

About the Issuer Administration Server

The issuer administration server allows multiple issuers and the system operator to share the same infrastructure and application while maintaining a completely separate view of the system. It enables issuers and the system operator to configure the system for their own purposes independently.

Certain options may or may not be displayed depending on the type of license that a client holds. The administration server tailors the interface and available options according to the client's needs. For example an administrator whose issuer only holds a 3-D Secure license will only see and have access to 3-D Secure related functionality. A system administrator that has access to at least one issuer with a 3-D Secure license or a two-factor license is able to access the full administration interface.

Access Levels

User access levels are controlled by assigning, one of six pre-defined, roles to the user. The user role determines which menu items and functions are accessible by the user.

A **read only** option is available, for all user roles, for example, for users in support roles that are not required to add records, edit details or upload files.

The access levels are:

- System administrator the highest level of access in the system with access to system management, issuer management, user management, cardholder management, transactions, reporting and audit logs.
- Issuer administrator provides access to member bank configuration options, cardholder management, transactions, reporting and audit logs for one, or a group of issuers.
- IT security provides dedicated access to audit logs, for one or a group of issuers.
- **Member administrator** provides dedicated access to the Admins section (administration user management), for one issuer or an issuer group.



Business administrator - business level of access to the system provides access to cardholder management, transactions, reporting and audit logs, for one issuer or an issuer group.

Helpdesk - provides cardholder management and transactions, for one issuer or an issuer group for helpdesk users.

Logging In and Logging Out

Login

To login to the ActiveAccess administration interface you must be previously registered as an administrative user and know your Username and Password. You must also have access to the required one-time passcode, if two-factor authentication is enabled for your user account.

• From your Web Browser make a connection with the Intranet and access the ActiveAccess login page.

The ActiveAccess administration Login screen is displayed.



Warning

If you have forgotten your password then contact your system administrator.

If security has been compromised (such as when you suspect another person has logged in using your username and password) you can login and then change your password using the **Edit Profile** link situated on the top banner.

• Enter your **Username** and **Password**.



Info

Both Username and Password are case sensitive.

- Click the **Login** button.
- ActiveAccess supports two-factor authentication for logging into the Administration UI. By default, users are not forced to use two-factor authentication, unless this feature has been enabled during user creation or has been set up by the user in Edit Profile.





Note

To enable this feature, **email notification messages** must be enabled and configured in Settings.

If two-factor authentication login is enabled for your user account, enter your one-time **Passcode**.



Google Authenticator for two-factor authentication login

To use this feature, you must have Google Authenticator installed on a mobile device and have the provided QR code scanned on the app.

If a System Administrator enables this feature for a user, the QR code will be sent to the user's email address. If a user enables this function for their own account, the QR code will be displayed when enabling the feature.

Refer to Install Google Authenticator for setup instructions of Google Authenticator.

· Click the Login button.

Upon entering your username and password (and passcode, if required) successfully, you are verified and the first admin page will be displayed. The page that you see will depend on the access rights assigned to your username (**system administration**, **issuer administration**, **business administration**, **IT security**, **member administrator** or **helpdesk**).



Note

If the user logging in does not belong to an Issuer or Issuer Group with a valid license installed, they will not be able to access any administration pages and will be shown the following message:

The user 'username' does not belong to an Issuer or Issuer Group with a valid 3-D Secure enabled or Device enabled license installed.

Please contact your System Administrator.

Logout

When you have finished using ActiveAccess administration, it is important that you logout from your account, to prevent other users from performing tasks with your username and access level privileges. The Logout function is accessed via the *Logout* link displayed on the right of the title bar area.



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Warning

It is also important that you logout while leaving your PC unattended.

• Click the Logout link.

The Administration **Login** screen is displayed.

· You may now close your browser window.

Issuer Administration Environment

The appearance of the issuer administration pages is consistent throughout, with each being made up of a number of common components.

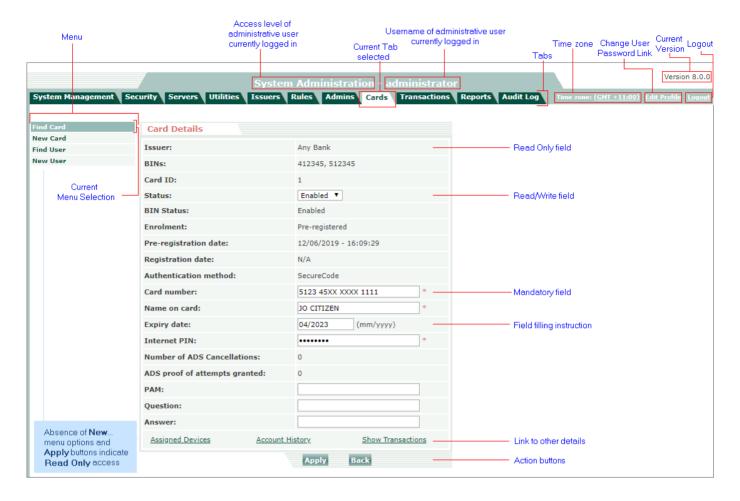
A banner area at the top of the screen displays the access level and the username of the user currently logged in; the system version; Time zone, Edit Profile and Logout links; and the main menu items as tabs.

Clicking on a menu tab displays the sub menu options on the left side of the page, with the first sub menu item highlighted.

Clicking on the required sub menu option displays the first page for that sub section.

The following example shows the key features of an typical ActiveAccess Administration page.





Issuer Administration Options

Use the menu tabs on the ActiveAccess Issuer Administration title bar to access the administration options. The complete set of options available is:

- System Management set up and maintenance of system settings, issuer administration servers, issuers and issuer groups, issuer certificates, issuer public keys, exchange configuration and archive management.
- Security set up and maintenance of issuer signing certificates, Authentication History Server (AHS) certificates, and trusted Certificate Authorities (CA).
- Servers set up and maintenance of ACS, Administration and Authentication History Servers.
- Utilities upload, manage and run system utilities.
- Issuers set up and maintenance of specific member bank details including card details, rules, custom pages and key management.
- Rules set up and manage business rules and the settings for risk based authentication.



- Admins set up and maintenance of ActiveAccess administrative users.
- Users- registration and maintenance of individual cards and users.
- Transactions for accessing transactions, when required for cardholder support purposes, dispute resolution, etc.
- · Reports provides reports for cardholder activity, authentication, card enrolment and purchase volume, device authentication, ActiveDevice activity and user enrolment activity and a summary report.
- · Audit Log provides a record of administrative user activity. It includes an extensive log of critical actions performed by the administrative staff.



The audit log section is available to system administrators and issuer administrators only. System administrators have access to an audit log of all events and issuer administrators have access to events relating only to their specific issuer or issuer group.



About System Management



System Administrators only

System Management Security Servers Utilities Issuers Rules Admins Cards Transactions Reports Audit Log

This section is used for setting up and maintaining system and ACS settings, Issuers and Issuer groups, settings for authentication devices, RBA and OOB, Issuer public keys, exchange configuration and transaction record archiving. It has the following menu options:

- Settings stores general settings for automatic logout idle time; maximum unsuccessful login attempts permitted; automatic unlock lag mktime; maximum number of concurrent logins allowed; and the password policy parameters for admin users.
- ACS Settings Access Control Server and Remote Access Control Server related settings.
- Issuer Management for setting up and maintaining Issuers and Issuer BIN ranges and viewing Issuer groups.
- Group Management for setting up and maintaining Issuers groups and viewing group members
- Authentication Management has settings for:
 - Device Management for finding, setting up and managing devices used for authentication.
 - Risk Management new section for managing risk chains and risk adapters used in 3DS2 risk based authentication.
 - OOB Management • new section for registering and managing the OOB adapters used for performing Out of Band (OOB) authentication challenges.
- Public & Encryption Key Management for defining or updating Issuers' public and encryption keys, which are used to validate and decrypt registration API messages signed/ encrypted by the Issuer.
- Exchange Configuration for displaying automatically downloaded external currency exchange rates and manually creating currency exchange values for rates not available on the automated list.



• Archive Management - for setting up automatic transaction record archiving.



Settings

System Management > Settings

This section is used to specify and maintain general configuration parameters such as automatic logout idle time; maximum unsuccessful logins permitted; automatic unlock lag time; maximum number of concurrent logins allowed; and the password expiry period, etc.

Use the following fields to complete this page:

· Automatic Logout time in minutes

Acceptable range: 0 to 240

Default: 20 min



Warning

Setting this field to 0 disables the automatic logout mechanism and is not recommended.

If an administrator account remains idle for the specified period of time it will be automatically logged out.

· Maximum unsuccessful attempts permitted for user logins.

A greater number of unsuccessful login attempts will result in the administration account being locked, restricting further access to the account.

Acceptable range: 0 to 9

Default: 3



Warning

Setting this field to 0 disables the automatic locking mechanism and is not recommended.

· Automatic unlock time in minutes.

The amount of time after which a locked administrator account is automatically unlocked.

Acceptable range: 0 to 1440

Default: 0, which disables automatic unlocking such that all locked accounts have to be manually unlocked by another administrator user with the same or higher access level.

Maximum concurrent logins permitted for MIA admin users

Acceptable range: 0 to 9



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Warning

Setting the number of concurrent logins to 0 will prevent more than one user logging in at the same time and is not recommended.

- The administration user **Password policy** is set using the following fields:
 - Password expiry period determines how often MIA administration users are required to change their MIA login password

Acceptable range: 0 to 365

 Minimum password lifetime determines the minimum number of days MIA administration users are required to wait before they can change their MIA login password again.

Acceptable range: 0 to 90

Minimum password length

Acceptable range: 0 to 32

0 indicates no minimum length

Minimum password numeric characters required

Acceptable range: 0 to 32

Minimum password uppercase characters required

Acceptable range: 0 to 32

Minimum password lowercase characters required

Acceptable range: 0 to 32

Minimum password special characters required

Acceptable range: 0 to 32.



Note

The total number of characters entered for **Minimum password numeric characters**, **Minimum password uppercase characters**, **Minimum password lowercase characters** and **minimum password special characters** must be less than or equal to the **Minimum password length**.

- **Registration server URL** is the URL of the registration server used to send final and preregistration requests to the registration server when issuers upload card data files.
- **Time zone** is is displayed on the system administration menu bar, from where it can be modified at any time, as and when appropriate. The default time zone is set when the application is installed.



All reports and results of searches will be based on the time zone specified on the menu bar at the time of the report or search.

• Disable admin account if inactive for more than a specified number of days.

Acceptable range: 0 to 365.

The system will disable an admin account if it has not been accessed for more than the specified number of days.

To disable, set to 0.

· AHS timeout in seconds

Acceptable range: 0 to 3600

This defines the maximum amount of time the ACS will wait for the Authentication History Server to respond. If a response is not received within the expected time, the ACS will reschedule the AHS transaction for a later time.

- Show for the following access levels checkboxes determine which administrator user roles are able to view Card Number (plain text) and AAV/CAVV/AEVV.
 By default, card numbers are masked and AAV/CAVV/AEVV is hidden.
- Enable manual ACS restart checkbox if you want to defer application of changes that require
 a restart to the next time the server is manually restarted.
 When this option is selected, if changes require the system to be restarted to take effect, you
 will be prompted that a restart is required. You can choose to defer the restart or select the
 option to Restart now.
- Enable email notification messages checkbox if you want the system to send email messages to administrators for two-factor authentication login or notifications such as expiring license keys.

You will need to configure the mail server settings for this feature to work.

 Mail server address, Mail server port, Mail server username, Mail server password and Mail server protocol are used to record the address, username and password of an outgoing SMTP mail server.



Note

The sender of the notification messages will be the main administrator user (administrator). Make sure that you have specified a correct email address for this user (use **Edit Profile** link, while logged in as the administrator).



Note

You can test mail server settings by clicking on *Send Test Message* link. The link will appear once you have entered mail server settings and applied the changes.

 Log level determines the amount of information generated and routed to console and log file.

Changes to log level take immediate effect.

The options are:

- All: includes any information that can be generated by the application.
- Debug: information regarding more frequent and minor operations of the system or further.
- Info: (Default) important information regarding the normal operation of the application or significant events.
- Warn: warnings are minor errors that may not affect the operation of the system at all.
 For example a missing feature or component that may not affect the system if you are not planning to use its related functionality.
- Error: log errors that may affect performance or operation of the system but do not necessarily prevent the system from operating. Logs incorrect behaviour of external components and systems outside the control of the application.
- Fatal: logs severe problems, imminent system failure, application or component crash.
- Off: Logging is disabled.

ActiveAccess currently logs information in a subset of the above levels at **Fatal**, **Error**, **Warn**, **Info**, and **Debug** levels. Note that each higher level is inclusive of the messages of lower levels. For example when you set the log level to **Warn**, you will also see **Error** messages.

Apply button to save changes.



ACS Settings

🔁 3D Secure 2 settings added

System Management > ACS Settings

The **ACS Settings** section is used to set local and remote (CAAS) Access Control Server options.

Use the following fields to set ACS settings:

ACS reference number

Displays a unique reference number provided by EMVCo to ActiveAccess.

• Select Local or Remote (CAAS) from the Authentication server drop down list.

3-D Secure 1 Settings

ACS URL is the fully qualified URL of the Access Control Server's Payer Authentication (PA)
processing page, as seen externally.

The ACS URL specified here is passed to the merchant MPI as part of the ACS response to the Verify Enrolment (VEReq) message and is used by the merchant to transfer the session to the ACS for authentication of the cardholder.

The default path for the ActiveAccess PA processing page is /acs/pa.



If you have installed ActiveAccess on the web server available on $\frac{\text{https://www.authenticationserver.com/you}}{\text{should set the ACS URL to }\frac{\text{https://www.authenticationserver.com/acs/pa}}{\text{https://www.authenticationserver.com/acs/pa}}$

Process timeout in seconds

Defines the maximum amount of time a cardholder has to complete their authentication. If the cardholder does not complete the authentication within the prescribed time, ACS returns a session timeout error.

Acceptable range: 60 to 9000

· Relative timeout in seconds

Determines the amount of time a cardholder has to complete a single page, however, the total time to complete the whole authentication process may not exceed the **Process timeout**.



Acceptable range: 60 to 9000

3-D Secure 2 Settings

ACS challenge URL is the fully qualified URL of the Access Control Server's Challenge (CReq)
processing, as seen externally.

The ACS URL specified here is passed to the 3DS Server as part of the ACS response to the Authentication Request (AReq) message and is used by the 3DS Requestor to transfer the session to the ACS for authentication of the cardholder.

The default path for the ActiveAccess CReq processing page is /acs/ca.

Example

If you have installed ActiveAccess on the web server available on https://www.authenticationserver.com/ you should set the ACS URL to https://www.authenticationserver.com/acs/ca

Initiate CReq timeout in seconds

Defines the maximum amount of time between the completion of the TLS handshake and the first CReq message sent to the ACS for processing. If the ACS does not receive any CReq within the prescribed time, it returns a transaction timeout error.

Acceptable range: 15 to 60

Subsequent CReq timeout in seconds

Determines the amount of time a cardholder has to complete a single page in App mode. However, the total time to complete the whole authentication process may not exceed the **Process timeout**. If the cardholder does not complete a single page within the prescribed time, ACS returns a transaction timeout error.

Acceptable range: 300 to 1200

· RRes timeout in seconds

Defines the maximum amount of time the Directory Server has to respond with RRes to the RReq sent by the ACS. If the Directory Server does not respond with RRes within the prescribed time, ACS returns a transaction timeout error.

Acceptable range: 2 to 10

· Browser authentication timeout in seconds

Determines the amount of time a cardholder has to complete a single page in Browser mode. However, the total time to complete the whole authentication process may not exceed



the **Process timeout**. If the cardholder does not complete a single page within the prescribed time, ACS returns a transaction timeout error.

Acceptable range: 300 to 1200

· RReq retry interval in seconds

Failure to complete the initial connection and TLS handshake to the Directory Server for sending RReq results in an immediate retry. Upon second failure, the ACS will wait for the amount of time prescribed in RReq retry interval and retry to connect to the Directory Server.

Acceptable range: 5 to 20

Process timeout in seconds

Defines the maximum amount of time a cardholder has to complete their authentication. If the cardholder does not complete the authentication within the prescribed time, ACS returns a transaction timeout error.

Acceptable range: 315 to 1260

· Apply button to save changes.



Issuer Management

This section is used to define new issuers and issuer groups, or update existing information.

A group of issuers can be created for administration purposes. Issuer group determines which issuers users have access to; the administration group determines at which level they have access.

Links are provided to **ActiveDevice Settings** for assigning devices, and for creating a **New Issuer Group** or **New Issuer**.

A list of existing issuers and their group memberships is displayed. You can browse to view issuer and issuer group details by clicking on the *Issuer Name* and *Group Membership* links. The list can be filtered by Issuer Name, Issuer ID, BINs, Status and License Expiry period.

System Management > Issuer Management displays:

- · A list of Issuers
- ActiveDevice Settings link to the ActiveDevice Settings page.
- New Issuer Group link to the New Issuer Group page.
- New Issuer link to the New Issuer page.

Use the following fields to limit the number of issuers displayed:

- Issuer Name (complete or partial) or leave empty to return all matching issuers
- · Issuer ID, defaults to All
- Issuer BINs (comma separate multiple BINs)
- Status All (default), Enabled or Disabled
- Select from the License key status drop down list:
 - All (default)
 - Valid
 - Expired
 - Expires in less than a month
 - Expires in 1 to 3 months



- Expires in 3 to 6 months
- Expires after due to expire in 1 to 6 months
- Click the **Go** button to display the new search results.

The following fields and links are displayed for each issuer:

- Issuer Name link to the Issuer Details page
- · Issuer ID
- BINs BIN numbers defined for the issuer
- *Group Membership* indicates the group to which the issuer belongs to. You can click on the group name to display the **Issuer Group Details** page.
- · Status Enabled or Disabled
- License Shows the status of the issuer's license key

New Issuer Group

System Management > Issuer Management > New Issuer Group

This page is used to define a new issuer group and to assign issuers to that group.

Use the following fields to add a new issuer group:

 Name of the issuer group. It is a good idea to use the word "group" as part of the name for example "ABC Group".

The system will automatically assign a **Group ID** to the issuer group.

- Optionally specify a parent by selecting from the **Parent group** drop down list.
 This allows you to build a hierarchy of issuers and groups to suit your administration
 - requirements.
- ACS URL the system allows a separate URL to be created for each issuer group. If a separate URL is required, it should be entered here.
- ACS Challenge URL the system allows a separate URL to be created for each issuer group.

 If a separate URL is required, it should be entered here.
- Uses confirmation Indicates if the Issuer uses the confirmation method. Defaults to No.



In the Enrolment component, if **Uses confirmation** is enabled, the cardholder will be taken through the sign up process. If set to disabled, the registration status of the card will be checked and displayed to the cardholder.

When **Activation During Shopping** is enabled, if the cardholder is **pre-registered** and **Uses confirmation** is **No**, the cardholder is required to create a 3-D Secure password (VbV password / Mastercard SecureCode / JSecure password / American Express SafeKey / ProtectBuy password) to use in the authentication process.

If **Uses confirmation** is **Yes**, the cardholder's existing registration data is used in the authentication process, instead of requiring a new 3-D Secure password (VbV password / Mastercard SecureCode / JSecure password / American Express SafeKey / ProtectBuy password) to be created.

Select one or more issuers or groups to add to the group from the **Issuer Members** list or the **Group Members** list. Use the **Add >>** button to add the issuers or child groups to the **Selected** list.

You can use the **<<Remove** button to remove issuers or child groups from the issuer group.

- MAC Algorithm used in conjunction with SecureCode transactions.
- Group Members Use the Add >> and << Remove buttons to add or remove child groups that should belong to the group.
- Issuer Members Use the Add >> and << Remove buttons to add or remove issuers that should belong to the group.
- Use parent certificate, public and encryption keys option indicates that the group does not
 have a certificate of its own and will use the parent group's certificate and registration API
 public key and encryption key. This option is only enabled if you have specified a parent
 group. Using the parent certificate is only possible if you have also chosen to use the parent
 keys.
- **Use parent keys** option to indicate that the group does not have any keys of its own and will use the parent group's keys. This option is only enabled if you have specified a parent group.
- Apply button to save changes.



Once the issuer group has been created, you may optionally specify a separate **ACS URL** for it by editing the Issuer Group Details.



Issuer Group Details

This page is used to view/ edit issuer group details and assign issuers to, or remove issuers from, the issuer group.

System Management > Issuer Management > Issuer Group Details - fields



Info

See the New Issuer Group section of this document for additional information on these fields.

- **Group ID** is a unique identifier, which is used by the system in order to reference the group. Group ID cannot be changed.
- · Name of the issuer group
- Parent Group you can optionally define a parent group in order to create a hierarchy of groups and issuers to suit your administration requirements.
- ACS URL the system allows a separate URL to be created for each issuer group. If a separate URL is required, it should be entered here.
- ACS Challenge URL the system allows a separate URL to be created for each issuer group. If a separate URL is required, it should be entered here.
- Uses confirmation Indicates if the Issuer uses the confirmation method.
 - The confirmation method is a process allowing cardholders with an enrolment status of "Pre-registered" to utilise their pre-registration account information, instead of creating a new 3-D Secure password, to perform 3-D Secure authentication.
- MAC Algorithm to be used in conjunction with SecureCode transactions
- Group Members Child groups that belong to the group are listed in the Selected list. Other groups (not belonging to any other group) are listed in the Available list. Use the Add >> and
 Remove buttons to change the child groups that belong to the group.
- Issuer Members issuers that belong to the group are listed in the Selected list. Other
 issuers are listed in the Available list. Use the Add >> and << Remove buttons to change the
 issuers that belong to the group.
- Use parent certificate, public and encryption keys Selecting this option indicates that the issuer group does not have a certificate of its own and will use the parent group's certificate, registration API public key and encryption key. The option is only enabled if you have



specified a parent group. Using the parent certificate is only possible if you have also chosen to use the parent keys.



Note

Enabling this option will remove the issuer group certificate (if it has one) from the system. You cannot retrieve the certificate once removed.



Note

When you disable this option, the issuer group will no longer use the parent's certificate. You need to create a certificate request for the issuer group and have it signed by the appropriate CAs.



Warning

It is recommended that you make a decision to enable or leave this option disabled at the time of creating the issuer group to avoid the administration overhead of changing this option later.

Use parent keys - Selecting this option indicates that the issuer group does not have any
keys of its own and will use the parent group's keys. The option is only enabled if you have
specified a parent group.

Selecting this option indicates that the issuer group does not have any keys of its own and will use the parent group's keys. The option is only enabled if you have specified a parent group.



Note

Changing this option invalidates the issuer group existing certificate. You either need to enable the 'Use parent certificate' option or create a new certificate request, and have it signed by the appropriate CAs.



Note

Enabling this option will delete the issuer group keys from the local HSM. Deleting keys is irreversible unless you have previously backed them up. The following keys will be removed from the local HSM, where < group_id > is the issuer group's unique identifier as shown in the issuer group details:

- SPA< group_id >
- VbVA< group_id >
- vbVB< group_id >
- JCBA< group_id >
- JCBB< group_id >
- MSCA< group_id >
- MSCB< group_id >
- SKA< group_id >
- SKB< group_id >
- OCA< group_id >
- OCB< group_id >
- RSAVbV< group_id >_pub
- RSAVbV< group_id >_pri
- RSAMSC< group_id >_pub
- RSAMSC< group_id >_pri
- RSAJCB< group_id >_pub
- RSAJCB< group_id >_pri
- RSASK< group_id >_pub
- RSASK< group_id >_pri
- \circ RSADC< group_id >_pub
- RSADC< group_id >_pri
- RSADEVICE< group_id >_pub
- RSADEVICE< group_id >_pri

If you are using other HSMs in your system, you also need to remove these keys from those HSMs to keep them synchronised. You also need to update any other party who may use these keys for verification of AAV (UCAF) or CVV (CAVV).



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Warning

Disabling this option will create new keys for the issuer group, where < group_id > is the issuer group's unique identifier as shown in the issuer group details. The following keys will be created on the local HSM:

- SPA< group_id >
- vbVA< group_id >
- vbVB< group_id >
- JCBA< group_id >
- JCBB< group_id >
- MSCA< group_id >
- MSCB< group_id >
- SKA< group_id >
- SKB< group_id >
- OCA< group_id >
- OCB< group_id >
- RSAVbV< group_id >_pub
- RSAVbV< group_id >_pri
- RSAMSC< group_id >_pub
- RSAMSC< group_id >_pri
- RSAJCB< group_id >_pub
- RSAJCB< group_id >_pri
- RSASK< group_id >_pub
- RSASK< group_id >_pri
- RSADC< group_id >_pub
- RSADC< group_id >_pri
- RSADEVICE< group_id >_pub
- RSADEVICE< group_id >_pri

If you are using other HSMs in your system, you also need to export these keys to those HSMs to keep them all synchronised. You also need to update any other party who may use these keys for verification of AAV (UCAF) or CVV (CAVV).



Tip

It is recommended that you make a decision to either **enable** or leave this option **disabled** at the time of creating the issuer, to avoid the administration overhead of changing this option later.





Info

Refer to New Issuer Group for additional information on these fields.

· Apply button to save changes.



Note

A group cannot be removed if it has other groups or Issuers belonging to it.

New Issuer

Use this page to define a new issuer and optionally assign the issuer to an issuer group.

System Management > Issuer Management > New Issuer - fields

- Status of Not Registered is automatically assigned to new issuers by the system and cannot be changed until you have obtained a license key from GPayments.
- Enter the **Name** of the Issuing bank or financial institution.

You must enter a name that is unique in the issuer system.

- Enter an optional **Password** for the Issuing bank or financial institution.
 - This password is used for authentication of issuer connection to ActiveAccess via UAC. This is in addition to the verification of issuer's client authentication and may be left empty if the extra verification is deemed to be unnecessary.
- Show extended account information Select Yes to display all cardholder pre-registration account information, on the card details page, created during the cardholder's Pre-registration with the system. When this option is disabled, only basic cardholder information is displayed on this page.
- Uses confirmation Select Yes or No to indicate if the Issuer uses the confirmation method.
 - The confirmation method is a process allowing cardholders with an enrolment status of "Pre-registered" to utilise their pre-registration account information, instead of creating a new 3-D Secure password, to perform 3-D Secure authentications.
- Event Logging Disabled by default. Select Enabled to indicate event logging is required or Enable V+ compatible to indicate event logging is required, and the maximum number of Activation During Shopping opt-out events reported to the issuer is 9.



This feature allows issuers to download cardholder events through Registration Server Notification messaging. A Notification is a record of a single cardholder event. Each event is stored in ActiveAccess and a record is logged in the event a cardholder completes their registration, opts-out of Activation During Shopping or locks their account.

- If the issuer is to be assigned to an issuer group, select the group from the **Parent group** drop down list.
- If you have specified a parent group:
 - You may select the Use parent certificate, public and encryption keys option to indicate that the issuer does not have a certificate of its own and will use the parent group's certificate and registration API public key and encryption key.
 - You may select the Use parent keys option to indicate that the issuer does not have any keys of its own and will use the parent group's keys.
- · Apply button to save changes.



Once you have created the Issuer record a confirmation message will be displayed:

Please note down the Issuer ID and Issuer Name, and send them to GPayments in order to request a license key for the newly generated issuer.



Note

Once the new issuer has been created, you may optionally specify a separate ACS URL for it by editing the Issuer Details.



Info

Refer to Issuer Details for additional information on these fields.

Issuer Details

This page is used to view/ edit issuer details and assign the issuer to, or remove the issuer from an issuer group.

System Management > Issuer Management > Issuer Details (Local and Remote Issuers)



Use the following fields to view / edit issuer details:



Not all fields will be visible to all issuers, depending on issuer or issuer group settings.

- Issuer ID is a unique identifier, which is used by the system in order to reference the issuer.
 Issuer ID cannot be changed. Issuer ID is used in a number of situations such as requesting license key for the issuer, sending pre-registration and final registration messages and also forms part of the unique URL which is used for the issuer enrolment site.
- **Status Enabled** or **Disabled**, if the issuer is registered. Prior to the issuer obtaining a valid license key the Status is displayed as **Not Registered** and cannot be changed.



An issuer account that does not have a valid licence key is practically disabled. This makes most functions unavailable to the issuer including the enrolment, registration and authentication of cardholders.

• Name of the issuing bank or financial institution.

Note

This field forms part of the issuer licence key information. You will need to re-apply for a licence key if you change this field.

• Password for the Issuing bank or financial institution.

This password is used for authentication of issuer connection to ActiveAccess via UAC. This is in addition to the verification of issuer's client authentication and may be left empty if the extra verification is deemed to be unnecessary.

- ACS URL the system allows a separate URL to be created for each issuer. If a separate URL is required, it should be entered here.
- ACS Challenge URL the system allows a separate URL to be created for each issuer. If a separate URL is required, it should be entered here.
- Show extended account information Select Yes to display all cardholder data as sent by the Registration API messages in the card details page. When this option is disabled, only basic cardholder information is displayed.



 Allow issuer to access rules - Select Yes or No to indicate if the Issuer can access the business rules functionality.

Business rules are configurable settings which provide issuers control over the customer process during the 3-D Secure transactions. Rules can be configured using a 3-D Secure transaction's parameters such as the Transaction Amount, the Merchant ID, Merchant Name, Acquirer BIN or Merchant Country.



This feature is only available, if the custom pages are rule-compatible.

- If Allow issuer to access rules is set to Yes, then Grant Access to Business Admin and Grant
 Access to Helpdesk checkboxes allow you to grant Business Admin and / or Helpdesk users
 access to the Rules section. Whether these users have read only or full access is determined
 by their Admins settings
- Authentication Server Local or Remote (CAAS)
- If Remote (CAAS) is selected, CAAS Server will be displayed, to allow selection of the already configured remote authentication servers.
- If Authentication server is set to Remote (CAAS), optionally select the Risk engine integration checkbox if the authentication process is to be integrated with the issuer's risk engine.
- **Risk chain** Select an already configured Risk Chain from the drop down list to enable Risk-Based authentication for the issuer.
- ACS interface Select Native (default) or HTML from the drop down list.
 Identifies the ACS interface for presenting the challenge to the cardholder: Native UI or HTML UI. In SDK mode, if the supported interface is not specified in the AReq, the ACS uses the interface that is selected in this field.
- Uses confirmation Indicates if the Issuer uses the confirmation method. Defaults to No.
 The confirmation method is a process allowing cardholders with an enrolment status of "Pre-registered" to utilise their pre-registration account information, instead of creating a new 3-D Secure password, to perform 3-D Secure authentications.
- VISA CEMEA region Visa CEMEA require that a CAVV be generated and returned in all PARes messages regardless of the authentication status. Set this field to Yes, if this functionality is required.



 SecureCode MAC Algorithm - determines the algorithm which is used for calculation of AAV field for SecureCode transactions. By default HMAC algorithm is used. You may change this to CVC2 if required.

Note

The application generates two 3DES keys in the primary HSM, when a CVC2 option is selected for the first time: MSCA< issuer_id > and MSCB< issuer_id >. The system admin must ensure that these keys are copied to all HSM instances.

- Force cardholders to use device if Device Authentication is available, select Yes to force
 cardholders to register their authentication device during the 3-D Secure authentication
 process. Select No, to provide cardholders with a link to allow them to register their
 authentication device.
- Event Logging Disabled (default) or Enabled to indicate event logging is required; or Enable
 V+ compatible to indicate event logging is required and the maximum number of Activation
 During Shopping opt-out events reported to the issuer is 9.
- Parent group select the group to which the Issuer belongs, if any.

Note

The issuer can only be assigned to a single group; however the group itself can belong to another group. This enables you to create a hierarchy of issuers and groups to suit your administration needs.

- License key copy license key provided by GPayments and click Apply button. The Status
 will then change to Enabled.
 - License status once you have entered a valid license key the license status will display
 the validity period for the key (e.g. License key is valid until 01/03/2019) and if it is
 Device authentication enabled, 3-D Secure authentication enabled or 3-D Secure V2
 authentication enabled, if OOB, NPA, and APP features are supported.

The License status also determines the type of authentication available to the Issuer. When **3-D Secure authentication enabled** is displayed, the issuer can register cardholders and authenticate them using standard 3-D Secure password authentication. When **Device authentication enabled** is displayed, the Issuer can register users and authenticate them using device authentication. This option also allows Issuers to register cardholders for 3-D Secure and authenticate them using device authentication.



Note

If the licence key is not present, invalid or expired, the issuer account is practically disabled. This makes most functions unavailable to the issuer including the enrolment, registration and authentication of cardholders.

- Issuer BINs Use the BIN Management link to add, edit, delete, enable and disable one or more BINs for the issuer and specify if device authentication is available for cards that belong to the specified BIN.
- Use parent certificate, public and encryption keys Selecting this option indicates that the
 issuer does not have a certificate of its own and will use the parent group's certificate,
 registration API public key and encryption key. The option is only enabled if you have
 specified a parent group. Using the parent certificate is only possible if you have also chosen
 to use the parent keys.



Enabling this option will remove the issuer's certificate (if it has one) from the system. You cannot retrieve the certificate once removed.

Note

When you disable this option, the issuer will no longer use the parent's certificate. You need to create a certificate request for the issuer and have it signed by the appropriate CAs.



Tip

It is recommended that you make a decision to enable or leave this option disabled at the time of creating the issuer to avoid the administration overhead of changing this option later.

Use parent keys - Selecting this option indicates that the issuer does not have any keys of its
own and will use the parent group's keys. The option is only enabled if you have specified a
parent group.



Changing this option invalidates the issuer's existing certificate. You either need to enable the 'Use parent certificate' option or create a new certificate request, and have it signed by the appropriate CAs.



A

Warning

Enabling this option will delete the issuer's keys from the local HSM. Deleting keys is irreversible unless you have previously backed them up. The following keys will be removed from the local HSM, where < issuer_id > is the issuer's unique identifier as shown in the issuer details:

- SPA< issuer_id >
- vbVA< issuer_id >
- vbVB< issuer_id >
- JCBA< issuer id >
- JCBB< issuer id >
- MSCA< issuer_id >
- MSCB< issuer_id >
- SKA< issuer_id >
- SKB< issuer_id >
- DCA< issuer id >
- DCB< issuer id >
- RSAVbV< issuer_id >_pub
- RSAVbV< issuer_id >_pri
- RSAMSC< issuer_id >_pub
- RSAMSC< issuer_id >_pri
- RSAJCB< issuer_id >_pub
- RSAJCB< issuer_id >_pri
- RSASK< issuer_id >_pub
- RSASK< issuer_id >_pri
- \circ RSADC< issuer_id >_pub
- RSADC< issuer_id >_pri
- RSADEVICE< issuer_id >_pub
- RSADEVICE< issuer_id >_pri

If you are using other HSMs in your system, you also need to remove these keys from those HSMs to keep them all synchronised. You also need to update any other party who may use these keys for verification of AAV (UCAF) or CVV (CAVV).



Note

Disabling this option will create new keys for the issuer. The following keys, where < issuer_id > is the issuer's unique identifier as shown in the issuer details, will be created on the local HSM:

- SPA< issuer id >
- vbVA< issuer id >
- vbVB< issuer_id >
- JCBB< issuer_id >
- MSCA< issuer_id >
- MSCB< issuer id >
- SKA< issuer id >
- SKB< issuer id >
- DCA< issuer id >
- OCB< issuer_id >
- RSAVbV< issuer_id >_pub
- RSAVbV< issuer_id >_pri
- RSAMSC< issuer_id >_pub
- RSAMSC< issuer_id >_pri
- RSAJCB< issuer_id >_pub
- RSAJCB< issuer_id >_pri
- RSASK< issuer_id >_pub
- RSASK< issuer_id >_pri
- RSADC< issuer_id >_pub
- RSADC< issuer_id >_pri
- RSADEVICE< issuer_id >_pub
- RSADEVICE< issuer_id >_pri

If you are using other HSMs in your system, you also need to export these keys to those HSMs to keep them all synchronised. You also need to update any other party who may use these keys for verification of AAV (UCAF) or CVV (CAVV).



Tip

It is recommended that you make a decision to enable or leave this option disabled at the time of creating the issuer to avoid the administration overhead of changing this option later.



- Email Address may be used in OTP emails (parameter: \$IssuerEmail max 128 char).
- Customer service phone number may be used in OTP emails (parameter: \$ServicePhoneNumber max 32 char).
- ActiveDevice Settings used to assign one or more device types to a selected issuer and specify device sharing rules.
- Apply button to save changes.

BIN Management

This section is used to manage BINs of a specified issuer. Each BIN provides a link to allow you to edit the BIN, the status of Device over 3-D Secure or the status of the BIN. BINs can be selected and deleted from the system using the **Delete** button. Only BINs which have no cards assigned to them on the system can be deleted. The **Enable** and **Disable** buttons can be used to change the status of the BIN. New BINs can be added for the issuer through the *Add BIN* link and device authentication can be made available for cards that belong to the specified BIN.

System Management > Issuer Management > Issuer Details > BIN Management > Add BIN

Use the following fields to add a BIN:

- Issuer is displayed and cannot be changed.
- BIN .
- Device over 3-D Secure Disabled or Enabled to specify if device authentication is available for cards that belong to this BIN.
- Status Disabled or Enabled to specify the availability of the 3-D Secure service for cards
 that belong to this BIN. Cards with a Disabled BIN cannot be enrolled, registered or
 authenticated.
- · Apply button to save changes.

ActiveDevice Settings

This section is used to assign one or more device types to a selected issuer and specify device sharing rules. An issuer may choose to share devices with none, all, or a selected number of issuers and issuer groups.



Note

Device parameters for SMS and email devices are issuer specific and these devices are not shared between issuers and issuer groups. However, the same mobile numbers / email addresses can be registered for different issuers. ActiveAccess treats SMS / email devices that have the same mobile numbers / email addresses as independent devices.

System Management > Issuer Management > Issuer Details > ActiveDevice Settings

Use the following fields to view / edit ActiveDevice settings:

- Issuer
- Supported devices authentication devices accepted by the Issuer are listed in the Selected
 list. Other available devices not currently selected by the issuer are listed in the Available list.
 Use the Add and Remove buttons to change the tokens assigned to the issuer.
- Allow sharing device with allows the issuer to share its devices will all, none or a selected list of issuers and groups.
- · Apply button to save changes.

To view device parameter details, click the **Device Parameters** button.

The **Edit Device Parameters** page will be displayed.



Warning

For hardware and software token devices, changing device parameters may adversely affect the authentication of users. Such device parameters must be left as default unless absolutely necessary. You must consult with the device manufacturer before making any changes to these parameters.



Note

For information on default device parameters, go to Device Management.

Edit Device Parameters

The first available Device type for the selected Issuer is displayed.

Use the following fields to edit Device Parameters:

Device type This parameter can be left as the default or customised for the selected issuer.



The available device types are:

- Backup Device
- ∘ CAP (M-Chip 2)
- ∘ CAP (M-Chip 4)
- Fmail
- OOB
- RSA
- o SMS
- VASCO
- Use device's default parameters if this option is selected, it indicates that the issuer will use the Default Device Parameters for the selected device.

Deselect the checkbox to customise the device parameters. If the checkbox is already deselected, you can reset the parameters to the default by selecting it.



For full details of device parameters, refer to Default Device Parameters.

The following fields are additional to the configurable fields in Default Device Parameters:

- Device type: SMS
 - Available SMS Centres use the Add >> and << Remove buttons to select the appropriate SMS Centres.
- Device type: OOB 🔂
 - Available OOB adapters use the Add >> and << Remove buttons to select the appropriate OOB Adapters.



Group Management

System Management > Group Management

This section is used to set up and maintain issuer groups. It provides access to the same functions as the Issuer Management section, but from an issuer group perspective.

Organising related issuers in a group can greatly reduce the issuer administration overhead. Groups can have their own keys (AAV key | 1, CVC2 keys | 2, CVV keys | 3 and signing key | 4) and certificates. An issuer can be configured to use the parent group's keys to reduce the number of keys generated on the HSM and as a result, also reduce the overhead of key transfer tasks for synchronizing multiple hardware security modules. An issuer may also be configured to use the parent group's certificate in order to reduce the overhead of certificate management and renewal.

A list of issuer groups and their issuer and group members is displayed. You can browse to view issuer group and issuer details by clicking on the **Group Name,Issuer Members** and **Group Members** links.

The following fields and links are displayed:

- · Group Name links to Group Details page
- Group ID
- Group Members links to Issuer Group Details page, shows the issuer groups and issuers that belong to this group
- Issuer Members links to Issuer Details page, shows the license key and certificate details for the selected issuer
- New Issuer Group
- New Issuer
- 1. 192-bit generic key used in AAV HMAC calculation, used in SecureCode transactions
- 2. Pair of DES or 3DES keys, used in calculation of AAV CVC2, used in SecureCode transactions
- 3. Pair of DES or 3DES keys, used in calculation of CVV, used in VbV transactions
- 4. RSA key pair used signing the PARes messages



About Authentication Management

The **Authentication Management** section is used for:

- Device Management for finding, setting up and managing devices used in the authentication process.
- Risk Management new section for managing risk chains and risk adapters used in 3DS2 risk based authentication.
- OOB Management new section for registering and managing the OOB adapters used for performing Out of Band (OOB) authentication challenges.



Device Management

⚠ The **Device Management** section is grouped with **OOB Management** and **Risk Management** in the **Authentication Management** section.

This section is used for finding devices, updating device status, uploading hardware token device initialization seed files, and configuring default device parameters.



Note

The term 'devices' is used as a generic term for both devices used for authentication and authentication methods. It includes:

- · Hardware and software tokens
- · Smart (chip) cards
- · Authentication methods such as OTP with SMS or email
- · A standalone backup token



Info

Device files for hardware tokens are provided by the device manufacturer and contain information that uniquely identifies each authentication device and can be used to verify the tokens / passwords generated by that device. Each hardware token device is identified by a serial number. The serial number is determined by the device manufacturer and must be unique per device type.

Once a seed file is uploaded into the system, cards/users can be assigned to devices by linking device serial numbers with card/user accounts. Once an account is linked with a device serial number, the card/user enrolment process is complete.

System Management > Authentication Management > Device Management displays

- A list of recently uploaded device seed files for hardware tokens. By default the system displays the seed files uploaded in the last 10 days.
- · Edit Default Device Parameters
- Upload File to schedule a new job
- Find Device to view or edit the details of each device.



Use the following fields to limit the upload files displayed:

- Issuer
- · Device Type
- From and To Date
- Refresh button to display the new list.

The following fields and links are displayed:

- Job number link to the Job Details page to view job details including any error message or warnings.
- **Issuer name** (owner of the devices)
- · File Name
- Device type
- When the upload was Started and Finished
- · Number of Attempts before the upload was finished
- Status of the job: get the current status by pressing the refresh button

Job Details

This page displays details of the seed file upload, including any error messages or warnings, for the job selected on the **Upload File** page.

System Management > Authentication Management > Device Management > Job Details displays

- Issuer name
- Job number
- Uploaded date and time when the file was first uploaded
- · Device type
- · File Name
- Start and Finish date and time the job
- Attempts before the upload was finished
- Status



- Error message, if any.
- Error details
- Warnings

Fdit Default Device Parameters

System Management > Authentication Management > Device Management > Edit Default Device Parameters

Each device has its own set of device parameters. In the case of hardware tokens, these are manufacturer-defined parameters, such as VASCO or RSA, supported by adding additional libraries and installing vendor specific drivers. Other devices, such as SMS and Email are virtual devices natively supported by ActiveAccess.

Device parameters can be customised per issuer. By default this customisation is disabled, such that all issuers use the default device parameters.

Use the following fields to edit default device parameters:

· Device type

The options are:

- Backup Device
- ∘ CAP (M-Chip 2)
- ∘ CAP (M-Chip 4)
- Email
- RSA
- SMS
- VASCO

SMS

System Management > Authentication Management > Device Management > Edit Default Device Parameters - SMS



SMS is a virtual device natively supported by ActiveAccess. This is in contrast to some third party devices such as VASCO or RSA which are supported by adding additional libraries and installation of vendor specific drivers.

The SMS device can be used as a backup device.

The SMS device parameters page is where the administrator can setup the system for sending SMS messages. ActiveAccess supports SMPP-API-0.3.9.1 (Short Message Peer to Peer) protocol for sending SMS messages to an SMS gateway, also known as an SMSC (Short Message Service Centre). The SMS gateway is normally provided by the business section of your preferred telecommunications company.

The connection to the SMSC must be over TCP/IP. The details of connection to the SMSC will be provided by your telecommunications company.

Use the following fields to edit SMS Device Parameters:

- Device type SMS
- SMS token type ActiveAccess can generate two types of SMS tokens:
 - Instant the system generates one SMS token per authentication. The token is generated and sent to the user's mobile phone, after the verify enrolment request is received by ActiveAccess. For example the user visits the Internet banking site and enters their user ID and static password. The bank verifies the password and if successful sends a verify enrolment message to ActiveAccess with SMS as device type. ActiveAccess then sends an SMS message which contains the authentication token. The user is then required to enter the token as the second factor of authentication in order to login and access the Internet banking site.
 - Batch the user receives a batch of SMS tokens beforehand. The batch SMS message contains a batch reference number and a list of generated tokens, each identified by a letter of the alphabet. The user is then asked to enter a token that corresponds with a specific letter of the alphabet as shown on the authentication page. With batch SMS, up to 15 tokens can be sent in a single SMS message and hence reduce the cost of sending SMS tokens. The system generates another set of tokens and sends them to the user when the last token for the current batch is used.
- **Batch SMS lifetime** determines the validity period of batch SMS tokens in days (acceptable range is 0 to 365). Batch tokens will be valid for the period specified by this option. The default is 30 days.



- Instant SMS lifetime determines the validity period of instant SMS tokens in minutes
 (acceptable range is 0 to 60). Following Instant tokens will be valid for the period specified
 by this option. The default is 15 minutes. You should consider the mobile network delay for
 sending SMS messages and provide sufficient time for the user to enter the token.
- **SMS token length** determines the number of digits in the token generated (acceptable range is 6 to 10). The default is 6 digits.
- Number of tokens in each batch determines the number of tokens included in a batch. The
 default is 10.
 - An SMS message on a GSM network may contain up to 160 characters, while the limit for a CDMA network is between 120 to 153 characters. The system limits the maximum number of tokens based on the CDMA's lower limit of 120 characters.
- Maximum unsuccessful attempts to send an SMS (acceptable range is 0 to 9) if sending
 an SMS message fails due to network or application errors, such as connection problems to
 the SMSC or receiving an invalid response from the SMS, the system attempts to resend the
 SMS message up to the number of times specified by this option. The default value is 5. If all
 attempts for delivering fail, an error is reported back to the administration user.
- Maximum number of SMSs sent per authentication session (acceptable range is 0 to 99)
 determines the number of times that a new SMS OTP can be requested by the cardholder
 during each authentication session. The default value is 3. If the limit is reached, the
 authentication fails.
- Accept mobile numbers of Select the country name that you would like to accept as SMS mobile number. Select 'All' if you would like to accept all international mobile numbers.
- Restrict mobile number Turn this option on if you want to specify a mobile number format. Enter the required format, eg. ##########, 61########, 0061########. Allowed characters are 0-9, '#', '(', ')', '-' and space. Please note that the mobile number, excluding country calling code and trunk code, is checked against the specified patterns. Mobile number patterns should be no longer than 20 characters, including the Country Code.
- Use as backup device Turn this option on if you would like SMS to be used as a backup device. A backup device can be activated once a user reports a device lost or damaged, or requests the helpdesk to disable the device temporarily.
- **OTP and Password** Select this option when an authentication requires the user to enter both a static password and one-time password.



- SMS Centres Click on the link to view a list of currently configured SMS gateways. You can click on the SMSC name to edit or view the details or you can add or remove an SMSC entry by selecting the corresponding link.
- **SMS Templates** Click on the link to Edit Default Templates for Activation During Shopping (ADS), Authentication, Activation via Authentication or Activation/Registration via MIA.
- · Apply button to save changes.

SMS Centre

System Management > Authentication Management > Device Management > Edit Default Device Parameters - SMS > SMS Centres

This section is used to manage and add new SMS Centres. You can select any SMS centre to edit or delete.

- · To delete an SMS Centre
 - Choose one or more SMS Centres by clicking the Select checkbox adjacent to the ID
 - Click the **Delete** button.

A confirmation message will be displayed.

- · To edit an SMS Centre
 - Click the Name hyperlink for the SMS Centre you wish to view or edit details.

The **Edit SMS Centre** page is displayed.

- · To add a new SMS Centre
 - Click the *New SMS Centre

The **New SMS Centre** page is displayed.

EDIT SMS CENTRE

System Management > Authentication Management > Device Management > Edit Default Device Parameters - SMS > SMS Centres > Edit SMS Centre displays the following fields:

- **Device ID** is displayed and cannot be changed.
- Name of Service provider (mandatory).
- Domain/IP and Port If changes are made to Domain name or IP address and Port number, they must correspond to the SMSC provider for connection to SMSC over TCP/IP.



- System ID, System type and Password if changes are made, they must be specific to the
 parameters that are required for authentication of the client application (in this case
 ActiveAccess) to the SMS centre and this generally will be provided by the SMSC provider.
- Sender's mobile number maximum length of 20 characters, including the Country Code. Allowed characters are A-Z, a-z, 0-9, '(', ')', '-' and space.
- · Apply button to save changes.

NEW SMS CENTRE

System Management > Authentication Management > Device Management > Edit Default Device Parameters - SMS > SMS Centres > New SMS Centre

Use the following fields to create a new SMS Centre:

- Name Choose a descriptive and unique name.
 - If the SMS Centre is actually an MQ Server that consumes SMPP messages, the **Name** should be a unique name which will become the prefix of the required parameters in **AA_HOME/sms-jms-config.properties** for the corresponding SMSviaJMS Client. It is possible to configure as many different SMSviaJMS clients as required for ActiveAccess. For more information regarding the SMSviaJMS configuration parameters, please refer to AA81-GPayments SMS via JMS- Library.pdf.
- **Domain/IP and Port** Enter the Domain name or IP address and Port number provided by the SMSC provider for connection to SMSC over TCP/IP.
 - ActiveAccess currently supports the following types of the SMPP gateways as SMSC and one as SMSviaSMTP:
 - Real SMPP Compatible SMSC This is a real world receiver of the SMPP messages. The IP and Port of the designated SMSC need to be specified for this type. SMS maximum length is 160 ASCII characters (70 Unicode characters).
 - SMSviaJMS Module This acts as an SMSC and receives SMPP messages but relays only the submit_sm messages to the MQ Server, which exclusively consumes submit_sm messages. SMS maximum length is 160 ASCII characters (70 Unicode characters).
 - SMSviaJMS Library This has been embedded into ActiveAccess itself and acts as a real SMPP client but only submits the submit_sm messages to the MQ Server, which exclusively consumes submit_sm messages. Port can be set to any number as it does not have any usage here. SMS maximum length is 64k ASCII characters (32k Unicode characters).



 SMSviaSMTP Library - This has been embedded into ActiveAccess itself and acts as an SMTP client, which builds SMS but sends them to the email addresses with a specified template in the Domain/IP field. Port can be set to any number as it does not have any usage for this type. No limitation is applied for the size of the SMS via SMTP.

Some clients have their own SMS switch, which provides all necessary information regarding SMS delivering and billing. These SMS gateways support only SMTP protocol for the incoming messages. As the ACS provides the ability to send OTP over SMTP, a template has been defined for this purpose, in the form of mailto:\$DEVICE_SERIAL_NUMBER\@smtp.com.

The SMS sender module replaces the **\$DEVICE_SERIAL_NUMBER** in the Domain/IP field with the registered mobile number of the cardholder and sends the OTP to a generated email account through the SMS switch.

For Example

If a cardholder has been registered with the mobile number of 614501234567, the SMS sender sends the OTP to the 614501234567@smtp.com account and the SMS switch relays it to the cardholder's mobile.

You can also define an email URL instead of an IP address for testing purposes. The email URL must start with mailto:, followed by the destination email address (such as mailto:myemail@mycompany.com). If you specify an email instead of an IP address, ActiveAccess will send the content of the SMS message to the specified email address. You must also ensure that the mail server settings are properly configured in the _System Management > Settings_ page.

Alternatively, SMPPSim, an open source and free SMPP simulator from http://www.seleniumsoftware.com/, can be used for testing.

Before testing with SMS, make sure that SMS has been selected as the authentication device for the issuer and that the SMS custom pages have been loaded for the issuer.

- System ID, System type and Password These are SMSC specific parameters that are
 required for authentication of the client application (in this case ActiveAccess) to the SMS
 centre and should be provided by the SMSC provider. If the SMSC does not require client
 authentication, leave these fields blank.
- Sender's mobile number Enter the number to be used as the sender's default mobile number, for all messages sent through the selected SMSC. Maximum length is 20



characters, including the Country Code. Allowed characters are A-Z, a-z, 0-9, '(', ')', '-' and space.

• Apply button to create the new SMS Centre.

SMS Template

Use this section to edit the default SMS templates for:

- Activation During Shopping (ADS)
- Authentication
- · Activation via Authentication
- Activation/Registration via MIA.

System Management > Device Management > Edit Default Device Parameters - SMS > SMS Templates > Edit Default Templates

Use the following fields to edit an SMS Template:

- SMS
- Template name the options are:
 - Activation During Shopping (ADS)
 - Authentication
 - Activation via Authentication
 - Activation/Registration via MIA
- Template Enter the default system message. This message is sent to the user when an SMS authentication is requested.



Info

Click the adjacent **Help** button for a full list of parameters. The default phrase can incorporate the following details, where appropriate:

SMS Template Parameters	Length (char)
-------------------------	------------------

\$BatchNumber - serial number of the batch SMS sent when using device authentication of 3-D Secure

max 5



SMS Template Parameters	Length (char)
\$CardExpiryDate - expiry date of the credit card	5
\$CardHolderName - cardholder name as specified in the system	max 64
\$CardProvider - card scheme name for the credit card	max 21
\$CurrencySymbol - the currency symbol for the purchase when using device authentication over 3-D Secure	max 3
\$IssuerName - Issuer's name as defined in the system	max 256 *
\$MerchantCountry - 3 character country code for the Merchant's country	3
\$MerchantName - Merchant's name for purchase using device authentication over	max 25 *
3-D Secure	
\$MerchantURL - URL of the Merchant's website	max 2048 *
\$Pan - credit card number used for device authentication over 3-D Secure	max 19
\$LastFourDigitsOfPAN - last 4 digits of credit card number used for device authentication over 3-D Secure	max 4
\$PurchaseCurrency - 3 character currency code for the currency of the purchase	max 3
\$PurchaseDateTime - date and time of the purchase in the system	22
\$PurchaseDescription - description of the purchase when using device authentication over 3-D Secure	max 125 *
\$PurchaseDisplayAmount - purchase amount displayed for purchase when using device authentication over 3-D Secure	max 20
\$PurchaseXID - merchant's purchase ID when using device authentication over 3-D Secure	28
\$RecurringEndDate - end date for a recurring payment	10
\$RecurringFrequency - recurring frequency for the purchase in days	max 4



SMS Template Parameters	Length (char)
\$TokenA - the one time password. Subsequent tokens for the batch SMS can be displayed as \$TokenB , \$TokenC , \$TokenD ,	max 8

 The parameter can contain Unicode characters, but presenting Unicode characters will reduce the maximum size allowed from 160 to 70 characters.



To be able to send SMS with templates in languages other than English or using symbols in the SMS Template, you must set the following system property in the application server's configuration file: smpp.default_alphabet.

Example

For Tomcat, set \-Dsmpp.default_alphabet=ie.omk.smpp.util.UCS2Encoding in the **TOMCAT_HOME/bin/** catalina.bat or catalina.sh.

Email

System Management > Authentication Management > Device Management > Edit Default Device Parameters - Email

Email is a virtual device natively supported by ActiveAccess to provide email OTP authentication.

The Email device can be used as a backup device.

The Email device parameters page is where the administrator can setup the system for sending OTP via email.

Use the following fields to edit email Parameters:

- · Device type Email
- **Token lifetime** determines the validity period of email tokens in minutes (acceptable range is 0 to 10). Following the sending of an email, the token will be valid for the period specified by this option. The default lifetime of email tokens is 10 minutes. You should consider the network delay for sending email messages and give enough time for user to enter the token.



- **Token length** determines the number of digits in the generated token (acceptable range is 6 to 10). The default size is 6 digits.
- Maximum unsuccessful attempts to send an email (acceptable range is 0 to 9) if sending
 an OTP by email fails due to network or application errors such as connection problems to
 the mail server or receiving a delivery error, the system attempts to resend the email
 message up to the number of times specified by this option. The default value is 5. If all
 attempts for delivering an OTP by email fail, an error is reported back to the administration
 user.
- Mail server address, Mail server port, Mail server username, Mail server password, Mail server protocol and Mail sender - Enter the address of an outgoing SMTP mail server with a valid username and password



The sender of the notification messages will be the main administrator user (administrator). Make sure that you have specified a correct email address for this user (use **Edit Profile** link, while logged in as the administrator).

- Minimum wait before the updated email address can be used (acceptable range is 0 to 9999). 0 to disable this option.
- Use as backup device Turn this option on if you would like Email to be used as a backup
 device. A backup device can be activated once a user reports a device lost or damaged, or
 requests the helpdesk to disable the device temporarily.
- **OTP and Password** Select this option when an authentication requires the user to enter both a static password and one-time password.
- Email Templates Click on the link to Edit Default Templates for Activation During Shopping (ADS), Authentication, Activation via Authentication or Activation/Registration via MIA.
- Send Test Email Click on the link to send a test email.

Note

The sender of the test emails will be the main administrator user (administrator). Make sure that you have specified a correct email address for this user (use **Edit Profile** link, while logged in as the administrator).

· Apply button to save changes.



Email Template

System Management > Authentication Management > Device Management > Edit Default Device Parameters - Email > Email Templates > Edit Default Templates

Use this section to edit the default email templates for:

- Activation During Shopping (ADS)
- Authentication
- Activation via Authentication
- · Activation/Registration via MIA
- Subject of Activation During Shopping (ADS)
- Subject of Authentication
- Subject of Activation via Authentication
- Subject of Activation/Registration via MIA.

Use the following fields to edit an Email Template:

- Type Email (this cannot be changed)
- Template name , the options are:
 - Activation During Shopping (ADS)
 - Authentication
 - Activation via Authentication
 - Activation/Registration via MIA
 - Subject of Activation During Shopping (ADS)
 - Subject of Authentication
 - Subject of Activation via Authentication
 - Subject of Activation/Registration via MIA.
- Content type Plain or HTML !!! note This field is only available for templates of the email body.
- Template Enter the default content for the email to be sent to the user when email OTP authentication is requested.



f Info

Click the adjacent Help button for a full list of parameters. The default phrase can incorporate the following details, where appropriate:

Email Template Parameters	Length (char)
\$CardExpiryDate - expiry date of the credit card	5
\$CardHolderName - cardholder name as specified in the system	max 64
\$CardProvider - card scheme name for the credit card	max 21
\$CurrencySymbol - the currency symbol for the purchase when using device authentication over 3-D Secure	max 3
\$IssuerName - issuer's name as defined in the system	max 256 *
\$MerchantCountry - 3 character country code of the Merchant's country	3
\$MerchantName - Merchant's name for the purchase when using device authentication over 3-D Secure	max 25 *
\$MerchantURL - URL of the Merchant's website	max 2048 *
\$Pan - credit card number used for device authentication over 3-D Secure	max 19
\$LastFourDigitsOfPAN - last 4 digits of credit card number used for device authentication over 3-D Secure	max 4
\$PurchaseCurrency - 3 character currency code for the currency of the purchase	max 3
\$PurchaseDateTime - date and time of the purchase in the system	22
\$PurchaseDescription - description of the purchase when using device authentication over 3-D Secure	max 125 *
\$PurchaseDisplayAmount - purchase amount displayed for purchase when using device authentication over 3-D Secure	max 20



Email Template Parameters	Length (char)
\$PurchaseXID - Merchant's purchase ID when using device authentication over 3-D Secure	28
\$RecurringEndDate - end date for a recurring payment	max 10
\$RecurringFrequency - recurring frequency of the purchase in days	max 4
\$TokenA - the one time password.	max 10
\$ServicePhoneNumber - customer service phone number of the issuer	max 32
\$IssuerEmail - issuer's email address	max 128

^{*} The parameter can contain Unicode characters.

Backup Device

System Management > Authentication Management > Device Management > Edit Default Device Parameters - Backup Device

The backup device is a standalone backup token, which is software generated. It can be used multiple times, as configured in the Backup Device Parameters.

Use the following fields to edit Backup Device Parameters:

- · Device type Backup Device
- Backup device lifetime (acceptable range is 0 to 365 days)

A value of 0 disables the device.

 Max usage limit - the maximum number of times the backup device can be used as (acceptable range is 0 to 9).

A value of 0 disables the device.

- OTP and Password Select this option when an authentication requires the user to enter both a static password and a one-time password.
- · Apply button to save changes.



CAP (M-Chip 2) & CAP (M-Chip 4)

System Management > Authentication Management > Device Management > Edit Default Device Parameters - CAP (M-Chip 2) or Edit Default Device Parameters - CAP (M-Chip 4)

Use the following fields to edit CAP (M-Chip 2) Parameters:

Device type - CAP (M-Chip 2) or CAP (M-Chip 4)

The following fields are available for configuration by default for CAP (M-Chip 2):

- IAF, IPB, Terminal verification result, Terminal country code, Transaction type, AIP, Card verification result, Amount other, CID, CVN, KDI, DAC, Maximum PSN size and Mode (Response only or Challenge response) (acceptable range for field values is displayed in field hints, where appropriate).
- OTP and Password Select this option when an authentication requires the user to enter both a static password and one-time password.
- · Apply button to save changes.

The following fields are available for configuration by default for CAP (M-Chip 4):

- IAF, IPB, Terminal verification result, Terminal country code, Transaction type, AIP, Card verification result, Amount other, CID, CVN, KDI, DAC, Maximum PSN size, H, b and Mode (Response only or Challenge response) (acceptable range for field values is displayed in field hints, where appropriate).
- OTP and Password Select this option when an authentication requires the user to enter both a static password and one-time password.
- · Apply button to save changes.

RSA

System Management > Authentication Management > Device Management > Edit Default Device Parameters - RSA

Use the following fields to edit RSA Parameters:

- Device type RSA
- **OTP and Password** Select this option when an authentication requires the user to enter both a static password and one-time password.



Apply button to save changes.

VASCO

System Management > Authentication Management > Device Management > Edit Default Device Parameters - VASCO

VASCO Parameters:

Device type - VASCO

The following manufacturer fields are available for configuration by default

- CHECKCHALLENGE, CHKINACTDAYS, DERIVEVECTOR, DIAGLEVEL, EVENTWINDOW,
 GMTADJUST, HSMSLOTID, ITHRESHOLD, ITIMEWINDOW, ONLINESG, STHRESHOLD,
 STIMEWINDOW, STORAGEDERIVEKEY1, STORAGEDERIVEKEY2, STORAGEDERIVEKEY3,
 STORAGEDERIVEKEY4, STORAGEKEYID, SYNCWINDOW, TRANSPORTKEYID and MODE
 (Response only or Challenge response) (acceptable range for field values is displayed in field hints, where appropriate).
- OTP and Password Select this option when an authentication requires the user to enter both a static password and one-time password.
- Apply button to save changes.

Upload File

System Management > Authentication Management > Device Management > Upload File

This page is used to enter the details of the device seed file you wish to upload and to schedule the upload date and time.

The seed file is provided by the device manufacturer.

Use the following fields to upload a file:

- Issuer
- Device type
- Click the Choose File / Browse... button, adjacent to File name, to locate and select a device seed file to upload.



The **No file chosen** message will then be replaced by the **File name** of the file to be uploaded.

- **Key value** The device manufacturer may provide a key for decrypting the seed file. Enter the key as provided by the device manufacturer.
- Schedule Date and Time when you want the uploaded data to be processed.

Uploaded files scheduled to run in the past are set to run immediately.

You may also leave these fields blank if you wish to process the uploaded data as soon as possible.



The data upload may take a long time to complete depending on the file size and line speed.

· Apply button to create the upload job file.

Find Device

System Management > Authentication Management > Device Management > Find Device

Find Device can be used to search for an authentication device based on a number of criteria such as serial number, range of serial numbers, creation data and type of device.

Use the following to find a device:

- Issuer
- Creation date and time (dd/mm/yyyy HH:MM) or specify a date and time range for the search result by entering dates and times in the From and To fields. The date and time format is dd/mm/yyyy HH:MM. Leave the time field empty if you do not wish to limit your search for a particular time of day.
- Device type
- Device Serial number or specify a range of numbers to search within:
 - VASCO device serial number, e.g. 123456789000
 - SMS phone number including country code, e.g. +61123456789
 - **RSA** device serial number, e.g. 11234567890
 - Email email address, e.g. jo.citizen@domain.com
 - CAP (M-Chip 4) device serial number, e.g. 4123450000000000005-000



- CAP (M-Chip 2) device serial number, e.g. 4123450000000000005-000
- Click Search to display device details.

Device Search Result

System Management > Authentication Management > Device Management > Find Device > Search Result

This page displays

- A list of Devices
- · Device ID link to the Device Details page
- · Delete, Mark as lost, Mark as damaged, Mark as disabled and Back buttons

The following fields and links are displayed for each device

- Select checkbox for selecting the device to use in conjunction with the Delete, Mark as lost,
 Mark as damaged and Mark as disabled buttons.
- Device ID link to the Device Details page
- · Serial number The unique device / authentication method identifier
- Issuer The issuer name to which this device belongs
- Device type The type/make of the device such as VASCO, RSA, Email, SMS, CHIP, etc.
- Status Active/Lost/Damaged/Disabled. Only an active device can be used in device
 authentication. If a device is reported lost, stolen, damaged or disabled, it must be flagged
 accordingly. A lost or damaged device can no longer be used for authentication and the user
 must be issued with a new device.

To Delete, Mark as lost, damaged or disabled, devices in the Search Results

 Click the checkbox adjacent to the appropriate device or the checkbox in the Select column heading, to select all devices.



Warning

Important: The display of search results is limited to 400 records, however if you select all records, all records matching the search criteria will be affected by the action you choose to perform.



A

Warning

Performing the selected action on a large number of records may take a long time to complete and will generate the equivalent number of audit log records. Use this functionality on a large number of records diligently and only where strictly necessary.

• Click the appropriate **Delete**, **Mark as lost**, **Mark as damaged** or **Mark as disabled** button.

Device Details

System Management > Authentication Management > Device Management > Find Device > Device Details

This page is used to view details for the device selected on the **Find Device** page and to change device status if the device has been reported as lost, damaged or temporarily disabled.

The following fields and links are displayed

- Device ID unique device ID
- Issuer The issuer name to which this device belongs
- Serial number The unique device / authentication method identifier
- Device type The type / make of the device, e.g. VASCO, RSA, Email, CAP (M-Chip 4), CAP (M-Chip 2), SMS.
- Status Active/Lost/Damaged. Only an active device can be used for authentication. If a
 device is reported lost, stolen or damaged, it must be flagged accordingly. A lost or damaged
 device can no longer be used for device authentication and the user must be issued with a
 new device.
- Creation date The date on which the device was created.
- Reported lost/damaged on displays the last time a token was reported lost or damaged.
- **Device Specific Parameters** a number of device specific parameters may be displayed for each device. These parameters are determined by the device manufacturer / authentication method and are displayed for completeness.
- Assigned Users link to a list of users assigned to this device.
- Assigned Cards link to a list of cards assigned to this device.
- Activate Device the link appears for devices marked as lost or damaged. This allows the
 administrator to re-activate the device for example when the user reports that the device has



been found, to save the user from the trouble of having to use a back up device or wait for the replacement to arrive. To activate the device, the administrator needs to enter a valid token generated by the device to confirm that the device is actually in the possession of the user again.

• Reset device - this option is currently supported for time-synchronous VASCO tokens. Such devices use an internal clock for generating the tokens which may gradually go out of sync with the authentication server time due to the internal clock's drift. Time synchronous devices automatically adjust this error with each authentication, as long as the time drift is within a reasonable range. The time drift on a device that has not been used for a long period of time may go outside the accepted window for automatic adjustment. In such a case, resetting the device will re-initialise the associated record and allows for a much larger window of synchronization. Before performing this action, the administrator should make sure that the user's account status is enabled and should confirm that the user is entering the token from a linked device by checking the device's serial number against the user account. If this does not resolve the problem, the administrator should reset the token and advice the user to perform another authentication. If resetting the device does not solve the problem, the device should be marked as damaged and a replacement ordered for the user.

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Risk Management

Elisk Management is a new section.

This section is used to set up the risk chains, which are used to define the authentication process, and the risk adapters defined in the chain. The sequence in which cardholder credentials are passed to the risk adapters is also defined in the chain. Each risk chain adapter defines a condition, actions to be taken if the condition is met or not met, a match score, together with the number of transactions which must have been performed and on how many days.

For further information about risk-based authentication and risk chains and risk adapters, refer to risk-engine-adapter.

System Management > Authentication Management > Risk Management

This page displays:

- · A list of Risk Chains and for each Risk Chain:
 - · Checkbox to Select it
 - Chain ID link to Edit Risk Chain
 - A list of Adapters that are enabled for the risk chain
 - Link to Configure risk adapters for the risk chain
- Delete button to delete selected risk chains
- · Link to Add Risk Chain
- Link to Risk Adapter Management

Add / Edit Risk Chain

System Management > Authentication Management > Risk Management > Add / Edit Risk Chain

Use the following fields to complete this page:

· Chain ID



- Authentication Method Score Range Based on the risk score (a value between 0 and 100) returned from the risk evaluation, the ranges defined in the following fields will indicate which authentication method should be used for authenticating the cardholder for each risk score.
 - Score range for frictionless if the risk score falls within this range, the cardholder will be authenticated frictionlessly.
 - Score range for static password if the risk score falls within this range, the cardholder will be required to authenticate using static authentication data that has previously been assigned to them, e.g. static password.
 - Score range for device if the risk score falls within this range, the cardholder will be required to authenticate using an authentication device that has previously been assigned to them, e.g. SMS OTP, Email OTP, Vasco, etc.
 - Score range for OOB if the risk score falls within this range, the cardholder will be required to authenticate using the authentication method utilised by the OOB service, e.g. biometrics, push notifications, etc.
 - Score range for decline if the risk score falls within this range, the authentication will be rejected.

Info

- The ranges defined must fully cover the range between 0 and 100
- · Each range must have a begin and end value
- · It is not required to have a score range for every authentication method. The score range for some authentication methods can be left blank if these authentication methods are not used by the issuer.
- · The ranges can be defined in your preferred order, e.g. OOB can have a lower score range than device.
- Ranges can not overlap.

Example 1

Score range for frictionless: 0..40

Score range for static password: 41..50

Score range for device: 51..60

Score range for OOB: 61..80

Score range for decline: 81..100



Example 2

Score range for frictionless: 0..40

Score range for static password:

Score range for device: 61..100

Score range for OOB: 41..60

Score range for decline:

- · Apply button to save changes
- Back button to return to the Risk Chains page.

Configure Risk Chain

System Management > Authentication Management > Risk Management > Configure Risk Chain

In this section, available Risk Adapters can be enabled/disabled, configured and prioritized for the corresponding risk chain.

This page displays:

- · Chain ID
- A list of available Risk Adapters that can be configured for this Risk Chain, and for each Risk Adapter:
 - · Checkbox to **Select** it. Risk Adapters can only be selected if they have been configured.
 - Adapter ID link to Configure Risk Adapter
 - Move Up and Move Down arrows to change the Priority of the risk adapter, i.e. the order in which the risk adapter is used in the risk chain
 - Status
 - Not configured
 - Configured
- · Enable button to enable selected risk adapters
- Disable button to disable selected risk adapters
- Back button to return to the Risk Management page.



Configure Risk Adapter

System Management > Authentication Management > Risk Management > Configure Risk Chain > Configure Risk Adapter

This page displays:

- Adapter ID
- · Adapter name

Use the following fields to complete this page:

- Condition which has been defined in the adapter and for each Condition:
 - Matched behaviour for when the Condition is matched
 - Continue
 - Finish
 - Mismatched behaviour for when the Condition is not matched
 - Continue
 - Finish
 - Matched score the score produced when the condition is matched
 - Condition value the transaction data is compared with this value to determine if it matches the condition or not.
- · Apply button to save changes
- Back button to return to the Config Risk Chain page.

Risk Adapter Management

System Management > Authentication Management > Risk Management > Risk Adapter Management

The Risk Adapter Management page displays:

- A list of **Risk Adapters** and for each Risk Adapter:
 - Checkbox to Select it
 - Adapter ID links to Edit Risk Adapter ID



- Adapter name
- Risk adapter connector
- · Delete button to delete selected risk adapters
- Link to Register Risk Adapter
- · Link to Risk Adapter Connector Management.

Register Risk Adapter

System Management > Authentication Management > Risk Management > Risk Adapter Management > Register Risk Adapter

Use the following fields to complete this page:

- Adapter name
- · Select Risk adapter connector from the drop down list
- · Apply button to save changes
- Back button to return to the Risk Adapter Management page.

Edit Risk Adapter

System Management > Authentication Management > Risk Management > Risk Adapter

Management > Edit Risk Adapter

Use the following fields to complete this page:

- Adapter ID
- Adapter name
- Select Risk adapter connector from the drop down list
- Apply button to save changes
- Back button to return to the Risk Adapter Management page.

Risk Adapter Connector Management

System Management > Authentication Management > Risk Management > Risk Adapter Management > Risk Adapter Connector Management



This section is used to define one or more connectors for communicating with remote risk adapters, which are called by ActiveAccess for risk-based authentication.



Note

To establish a secure connection with Risk Adapters, you may need CA Certificates and a keystore.

The Risk Adapter Connector Management page displays:

- A list of Risk Adapter Connectors and for each Risk Adapter Connector:
 - Checkbox to **Select** it
 - · Name links to Edit Risk Adapter Connector
 - URL
- · Delete button to delete selected risk adapters
- Back button to return to the Risk Adapter Management page
- · Link to Add Risk Adapter Connector.

Add / Edit Risk Adapter Connector

System Management > Authentication Management > Risk Management > Risk Adapter Management > Add / Edit Risk Adapter Connector

Use the following fields to complete this page:

- · Name of the Risk Adapter Connector
- · URL of the Risk Adapter Connector
- · Connection timeout
- · Read timeout
- · Apply button to save changes
- Back button to return to the Risk Adapter Connector Management page.



OOB Management

00B Management is a new section.

This section is used to register and manage the OOB adapters that are used for performing Out of Band (OOB) authentication challenges. For more information about OOB adapters, refer to OOB Adapter Specification.

OOB Management

System Management > Authentication Management > 00B Management

This page displays:

- · A list of **OOB Adapters** and for each adapter:
 - Checkbox to **Select** it
 - Adapter ID link to Edit OOB Adapter
 - Adapter name
 - OOB adapter connector
- Link to Register OOB Adapter
- Link to OOB Adapter Connector Management
- Delete button to remove selected OOB adapters.

Register / Edit OOB Adapter

System Management > Authentication Management > 00B Management > Register / Edit 00B Adapter

Use the following fields to complete this page:

- Adapter name
- OOB adapter connector
- · Select an **OOB server** from the drop down list.
- Apply button to save changes



• Back button to return to the OOB Management page.

OOB Adapter Connector Management

System Management > Authentication Management > 00B Management > 00B Adapter Connector Management

This section is used to define one or more Out of Band authentication connectors, which allow ActiveAccess to trigger the external OOB process and perform interactions with the cardholder for authentication.

This page displays:

- A list of **OOB Adapter Connectors** and for each connector:
 - Checkbox to Select it
 - Name link to Edit OOB Adapter Connector
 - URL
- Link to Add OOB Adapter Connector
- Delete button to remove selected OOB adapters.
- Back button to return to the OOB Management page.

Add / Edit OOB Adapter Connector

System Management > Authentication Management > 00B Management > 00B Adapter Connector Management > Add 00B Adapter Connector

Use the following fields to complete this page:

- · Name of the OOB Adapter Connector
- URL of the OOB Adapter Connector
- Connection timeout
- · Read timeout
- Apply button to save changes
- Back button to return to the OOB Adapter Connector Management page.



Public & Encryption Key Management

System Management > Public & Encryption Key Management

This section is used to provide or update the issuer's public and encryption keys. A valid public key must be defined for each issuer. The issuer system uses the issuer's public key to validate an issuer's signature. Issuers are required to sign their registration messages with a valid private key that corresponds to the public key as provided to the issuer system.

ActiveAccess uses encryption keys to encrypt cardholder data during communication between ActiveAccess and other hosts in the environment.

A KeyStore with the following details should be prepared for the encryption key that is to be uploaded, through Upload encryption key:

KeyStore type/format: JCEKS

KeyStore provider: SunJCE

· Key algorithm: DESede

• **Key size:** 112 or 168 bit

• **Key name:** can be any

• No of keys in the KeyStore: Only one key must be populated in the KeyStore

Such KeyStores can be easily created by the Java Keytool utility using the following command:

```
keytool -genseckey -alias enckey168 -keypass 123456 -keyalg DESede -keysize 168 -keystore enc-key.JKS -storepass 123456 -storetype JCEKS
```

This page displays for each key:

- · Owner-
- Owner Type type of the owner of the key, Issuer or Group
- · Certificate Information -
- · Validity validity of the certificate
- · Issuer issuer of the certificate
- Delete encryption key link



- · Download public key link
- Download encryption key link

Export Encryption Key

System Management > Export Encryption Key

Use the following fields to export the encryption key:

- Encryption KeyStore Enter the File password.
- Click Export.

Upload Public Key

System Management > Upload Public Key

Use the following fields to view/ update public key details:

- **Issuer** or an **Issuer group**. A message is shown to indicate whether a public key is currently available for this item or not.
- Enter the path and filename for the XML signing certificate; you can use the Choose File / Browse... button.

The system uses the public key contained in the certificate in order to validate the issuer signature when it receives messages through the registration server. Issuers must ensure that this certificate corresponds to the RSA private key, which is used in signing the registration messages.

- **Certificate information** Displays the certificate information if one is already loaded for the selected issuer or the issuer group
- Public Key Displays the public key in hexadecimal format if one is already loaded for the selected issuer or the issuer group
- · Apply button to update public key information.
- Download button to save a previously uploaded certificate as a PEM encoded certificate.

Upload Encryption Key

System Management > Upload Encryption Key



Use the following fields to view / update encryption key details:

- **Issuer** or an **Issuer group**. A message is shown to indicate whether an encryption key is currently available for this item or not.
- Choose File button, adjacent to Encryption KeyStore to locate and select an encryption key file to upload.

The **No file chosen** message or current file name will be replaced with the name of the file to be uploaded.

The system uses the AES (128 Bits) key contained in the JKS KeyStore in order to encrypt/ decrypt cardholder data that is being transferred between ActiveAccess modules and other external hosts. Issuers must ensure that this AES key is used in encrypting and decrypting cardholder data at other external hosts.

- **KeyStore password** File password for the Encryption KeyStore.
- **Encryption key** Displays the key information if one is already loaded for the selected issuer or the issuer group
- · Apply button to update public key information.



Exchange Configuration

System Management > Exchange Configuration

Business rules are configurable settings which provide issuers control over the customer process during the 3-D Secure transactions. The Amount Threshold rule is used to determine whether authentication can be bypassed based on an amount threshold. To cater for this requirement, it is necessary to set a threshold amount in a default currency. Where the default currency is the same as the transaction currency, this calculation is straightforward. However, where these currencies differ, it is necessary to first convert the transaction currency to an equivalent value in the default currency before calculating whether the threshold has been exceeded. In order to compare the default currency and transaction currency values where they differ, it is necessary to maintain a list of currency exchange rates.

To automate the maintenance of currency exchange values, the ACS system has been configured to automatically download an external currency exchange rate resource file. Where this list of rates is not comprehensive, and a transaction is received which is in a currency not found on the automated list, this section provides the necessary functionality to manually create currency exchange values.

The Exchange Configuration page shows a list of manually configured currency rates. The Base Currency signifies the transaction currency whilst the Target Currency signifies the currency of the issuer threshold as configured in the currency value on the Amount Threshold rule page. The Rate value is used as a multiplier, to convert an amount in the Base Currency to an equivalent amount in the Target Currency. Manual exchange rates can be edited by clicking on the Base Currency link.

Links are provided to *View automatic exchange rates* and *View effective exchange rates* and *Add* for adding a manual exchange rate.

This page displays:

- Manual Exchange Rates list
- View automatic exchange rates link to the Automatic Exchange Rates page
- View effective exchange rates link to the **Effective Exchange Rates** page
- Add link to the Add Exchange Rate page
- Delete button to allow selected exchange rates to be deleted



The following fields and links are displayed for each exchange rate:

- Base Currency link to the Edit Exchange Currency page
- Target Currency
- · Rate
- Last Update Shows the date and time the exchange rate was last updated.

Add Exchange Configuration

System Management > Exchange Configuration > Add > Add Exchange Rate

Use this page to add an exchange rate that is not supported by the automated currency exchange file.

Use the following fields to add a currency exchange rate:

- Base Currency
- Target Currency for the currency of the issuer threshold as configured in the currency value on the Amount Threshold rule page.
- Rate which should be multiplied by the Base Currency to equal the amount in the Target Currency.



Warning

Note that values entered here take precedence over those rates obtained by the automatic exchange rates feed when they have been updated more recently than the automatic updates.

Apply button to save the currency exchange rate.

Edit Exchange Configuration

System Management > Exchange Configuration > Add > Edit Exchange Rate

Use this section to edit currency rates that have been manually created through the Exchange Rate section.

• On the **Exchange Configuration** page, select the *Base Currency* link.

The **Edit Exchange Rate** page is displayed.



- The Base Currency and the Target Currency are displayed and cannot be changed.
- Enter a value for the **Rate** which should be multiplied by the Base Currency to equal the amount in the Target Currency.

A

Warning

Note that values entered here take precedence over those rates obtained by the automatic exchange rates feed when they have been updated more recently than the automatic updates.

• Apply button to save the currency exchange rate.

View Automatic Exchange Rates

Use this page to view the automatic exchange rates held in the system.

This page displays:

- Automatic Exchange Rates list
- View manual exchange rates
- View effective exchange rates
- Refresh list to update the list with the most recent exchange rates.

The following fields and links are displayed for each exchange rate:

- Base Currency
- Target Currency
- Rate
- Last Update Shows the date and time the exchange rate was last updated.



8

CurrencyConvertor.properties file

You can specify the currency exchange settings by editing the **CurrencyConvertor.properties** file located in ActiveAccess' **AA_HOME** directory on the server. The following parameters are configurable in this file:

AUD_URL: Specifies the URL of the feed that provides Australian Dollar exchange rates. The default is http://www.rba.gov.au/rss/rss-cb-exchange-rates.xml.

MAX_UNSUCCESSFUL_TRY: Specifies the number of times an attempt can be made to connect to try to the exchange feed URL before giving up in the case of an error is displayed.

AUD_FILE_TYPE: Specifies the format of the currency feed for the Australian Dollar. Default is XML.

RETRY_INTERVAL: Specifies the time in seconds that the system waits before sending another request in the case of error. Default is 30.

AUD_DATE_PATTERN: Specifies the format for date and time.

UPDATE_PERIOD: Specifies how often exchange rates are updated (hours). Default is 24.

PROXY_HOST: If required specifies the proxy address to be used for connecting to the exchange feed. Default is blank.

PROXY_PORT: If required specifies the proxy port to be used for connecting to the exchange feed. Default is blank.

PROXY_USER: If required, specifies the user name to be used to connect via the proxy. Default is blank.

PROXY_PASSWORD: If required, specifies the password to be used for connecting via the proxy. Default is blank.

ActiveAccess server should be restarted for changes to take effect.



Note

Automatic Exchange Rates rely on access to the Internet or an external resource configured to retrieve these details. If no access is available, the following message is displayed "Loading effective exchange rates, please wait..."

View Effective Exchange Rate

Use this page to view the effective exchange rates.

This page displays:

- Effective Exchange Rates list
- View manual exchange rates link to the Manual Exchange Rates page
- View automatic exchange rates link to the Automatic Exchange Rates page



• Refresh list to update the list with the most recent exchange rates.

The following fields and links are displayed for each exchange rate:

- Base Currency
- Target Currency
- · Rate
- Last Update Shows the date and time the exchange rate was last updated.



Note

Effective Exchange Rates rely on access to the Internet or an external resource configured to retrieve these details. If no access is available, the following message is displayed "Loading effective exchange rates, please wait..."



Archive Management

System Management > Archive Management

The **Archive Management** section is used to define automatic archive settings and review the history of previous archives.

An automatic archive process can be scheduled to run at a specified time to collect records that are older than a specified date. Several archive databases can be introduced to the archive procedure but only ones which are not closed can be used for the scheduled archive procedure.

Archived databases can be chosen as the default for transaction and audit log search purposes.

Links are provided to Archive Databases, Edit Archive Settings, Archive Database Details and Archive history details pages.

This page displays:

- Archive Settings
- Archive Databases link to the Archive Databases page
- Edit link to the Archive Settings page

Edit Archive Settings

Use the following fields and links to edit the archive settings:

- Automatic archive checkbox to enable / disable automatic archiving
- Start date for archiving in dd/mm/yyyy format
- Start time for archiving in hh:mm format
- Archive old records every, and select Days or Months from the drop down list to specify how
 often records should be archived.
- Collect records which are older than, and select Days or Months from the drop down list to specify the age of records to archive.
- Automatic archive purge checkbox to enable / disable automatic archive purging
- Purge start date for purging archived records in dd/mm/yyyy format



- Purge start time for purging archived records in hh:mm format
- Purge old archived records every, and select Days or Months from the drop down list to specify how often records should be archived.
- Purge archived records which are older than, and select Days or Months from the drop down list to specify the age of records to archive.
- · Apply button to save the settings

Archive Databases

This page displays:

- Archive Databases list
- New Archive Database

The following fields and links are displayed for each archive database:

- · Select radio button to indicate which archive database to delete
- Archive database (Archive user)
- Creation date the date that the archive database was created.
- End date the date that the archive database was closed. A database is closed once a new
 archive database is added. Closed archive databases are not used for archiving but can still
 be used for Transaction/Audit Log Searches.
- Archive user status indicates which archive database is the default for Transaction and Audit Log searches
- Set as default for Search link for selecting a different archive database to use for Transaction and Audit Log searches

New Archive Database

Use the following fields to add a new Archive Database:

- · Select either Database Link or Database user
- If the **Database link** radio button is selected, enter the **Database Link**.



This must be a valid database link to an ActiveAccess archive database with the schema that has already been defined in Archive/archive_schema.sql under the ActiveAccess package.

 If the Database user radio button is selected, enter a valid ActiveAccess archive database, with a schema that has already been defined in Archive/archive_schema.sql under the ActiveAccess package.



Note

The current ActiveAccess database user should have the appropriate access rights to the archive database user objects.

· Apply button to save the new Archive Database.



Note

Creating a new archive database closes the current archive database and all subsequently archived records are recorded in the new archive database.

A closed archive database can still be accessed by selecting it as the default for Transaction/Audit Log searches.

Archive Database details

This page displays:

Links to the Archive history details pages

The following fields and links are displayed in Archive Database Details page

- Archive Database is displayed and cannot be changed
- Creation date is displayed and cannot be changed
- End date the date that the archive database was closed. A database is closed once a new archive database is added. Closed archive databases are not used for archiving but can still be used for Transaction/Audit Log Searches.
- Archive History tab lists previous archive activities with a link to the Archive history details
 of each archive run.
- Purge History tab lists previously purged archive activities with a link to the Purge history details of each purge archive run.



Archive History Details

The following fields and links are displayed:

- · Archive history details for a specified archive date and time and record age
- · Table name of the database table archived
- · Number of Records Archived

Purge History Details

The following fields and links are displayed

- Purge history details for a specified purge date and time and record age
- Table name of the database table purged
- · Number of Records Purged



Security



System Administrators only



The **Security** section is used for setting up and maintaining digital certificates that are used for verification of connections with external parties and signing messages.



Warning

Note that server certificate related tasks that allow authentication of ActiveAccess server to external clients such as browsers and directory servers have been delegated to the ActiveAccess container. This is the application/web server which is used to run ActiveAccess server. Please consult with your application server documentation for setting up and installing SSL server certificates.

Security has the following sub menu options:

- Issuer Certificate for setting up and maintaining the issuers' signing certificates that are used to sign PARes messages.
- AHS Certificate for setting up and maintaining client certificates used for connections to the authentication history server.
- CAAS Certificate for setting up and maintaining CAAS certificates used for connections to the remote CAAS server.
- **Directory Server Certificate** • new section for setting up and maintaining client certificates used for connections to the Directory Server to send RReq.
- OOB Certificate new section for setting up and maintaining client certificates used for connections to the RESTful OOB adapters.
- Risk Certificate new section for setting up and maintaining client certificates used for connections to the RESTful RBA adapters.
- CA Certificate for setting up and maintaining trusted certificates. ActiveAccess uses CA
 certificates to validate server certificates in outbound connections to external servers such
 as authentication history server.



Issuer Certificate

Security > Issuer Certificate

This section is used to setup and maintain issuers' signing certificates. Issuer certificates are used to sign PARes messages. The issuer certificates must be issued by the certificate authority designated by the 3-D Secure provider for this purpose.

The following fields and links are displayed:

- · Currently installed certificates list
- Create Certificate Request for creating new certificate requests for issuers or groups
- · Install Certificate for installation of signed certificates
- Delete Selected Certificates remove selected certificates.

The following fields and links are displayed for each issuer:

- Owner, either a group or an issuer, and links to the Group Details page or the Issuer Details
 page
- Owner Type Shows whether the owner is a group or an issuer
- Provider 3-D Secure provider of the certificate. The certificate is only used for 3-D Secure transactions, which belong to the same provider. Provider link enables certificate to be downloaded for viewing.
- Certificate Information Certificate details such as Common Name (CN), Organization (O),
 Organization Unit (OU), Location (L), State (ST) and Country (C)
- · Validity Shows the validity period of the certificate
- Status The status of a certificate can either be Valid, Expired or Not signed. You need to
 reapply for certificates before they expire. A certificate status is shown as not signed if the
 certificate is not signed by a trusted certificate authority.
- Issuer The certificate authority (CA) who issued the certificate
- Signature Algorithm The hash algorithm used to sign the certificate.

Create Certificate Request

Security > Issuer Certificate > Certificate Request



Use this section to create a certificate signing request (CSR) that can be sent to a designated certificate authority (CA) to obtain a signed certificate. The certificate used in signing PARes message must be signed by an appropriate CA which is designated by the scheme. You need a separately signed certificate for each supported scheme. The CSR is created in standard PKCS#10 format.

Use the following fields to create a CSR:

- Each scheme may have certain requirements regarding the format and content of CSR fields
 that need to be entered here. Please contact the scheme for information regarding creating a
 CSR. Please note that some fields may not be required by a scheme and that the following
 explanations are generic.
 - Select whether the CSR is for an Issuer or an Issuer Group and select the organization from the list
 - Select an authentication Provider (scheme) from the list
 - Select a Key type from the list. The options are RSA (3DS1), used for signing 3D
 Secure 1 transactions, and RSA (3DS2), used for signing 3D Secure 2 transactions.
 - If the RSA Signing key is inactive, the Alias list is displayed and you will be required to select an Alias. The RSA Signing key that is created with the PCIDSS Key Retiring Utility or through Issuers > Key Management will remain inactive until a certificate request is created and signed by card schemes, then installed for the specified Alias
 - The **Key size** will be displayed once a provider and a key type (and alias, if available)
 have been selected. The key size is based on the size of the RSA Signing Key of the
 provider for each issuer.
 - Select the Hash Algorithm to be used to create the certificate request from the list.
 Defaults to SHA1.
 - Common Name a descriptive name for the certificate, for example 'Any Bank Signing Certificate'
 - Organization name for example 'Any Bank'
 - Organizational Unit the name of the department within the organization to which this certificate belongs, for example 'Card Services'
 - City for example 'Sydney'
 - Province full name for example 'New South Wales'
 - Two-letter country code for example AU for 'Australia.'



Install Certificate

Security > Issuer Certificate > Install Certificate

Use this section to install a certificate which is signed by the CA. The signed certificate must correspond to a previously created CSR for the same issuer and must be in standard PKCS#7 format.

Use the following fields to install a signed certificate:

- Select the appropriate radio button to indicate whether the Issuer or the Issuer Group was
 previously used for creating the CSR.
- Select an authentication Provider (scheme) from the drop sdown list. Select the provider whose CA has signed the certificate.
- If the RSA Signing key is inactive, the Alias list is displayed and you will be required to select an Alias. The RSA Signing key that is created with the PCIDSS Key Retiring Utility or through Issuers > Key Management will remain inactive until a certificate request is created and signed by card schemes, then installed for the specified Alias.
- Use the Certificate content (file) field to locate the PKCS#7 file that contains the signed certificate or copy and paste the signed CSR (if in base64 text format) in the Certificate content field.

AHS Certificate

Security > AHS Certificate

This section is used to set up and maintain SSL client certificates which are used to authenticate ActiveAccess to the authentication history server. Note that not all 3-D Secure providers may require an authentication history server. Check with the 3-D Secure provider regarding creating AHS client certificates and the designated CA for signing the certificates.

The following fields and links are displayed:

- Currently installed certificates list
- Create Certificate Request links to the AHS Certificate Request page for creating a new AHS
 client certificate requests.



- Install Certificate links to the Install AHS Certificate page for installation of the signed AHS
 client certificate
- Delete Selected Certificates link used with the **Select** checkbox to remove selected certificates and associated private keys.
- Import Certificate links to the Import AHS Certificate page for direct installation of a signed AHS client certificate which contains a private key as well as a public key.

The following fields and links are displayed for each provider:

- Owner the 3-D Secure provider and links to the Export AHS Certificate page. The certificate
 is only used for 3-D Secure transactions which belong to the same provider.
- Certificate Information Certificate details such as Common Name (CN), Organization (O),
 Organization Unit (OU), Location (L), State (ST) and Country (C)
- · Validity Shows the validity period of the certificate
- Status The status of a certificate can either be Valid, Expired or Not signed. You need to reapply for certificates before they expire. A certificate status is shown as not signed if the certificate is not signed by a trusted certificate authority.
- Issuer The certificate authority (CA) that issued the certificate
- Signature Algorithm The hash algorithm used to sign the certificate.

Create Certificate Request

Security > AHS Certificate > AHS Certificate Request

Use this section to create a certificate signing request (CSR) that can be sent to a designated certificate authority (CA) to obtain a signed certificate. The certificate is used in connection to the authentication history server designated by the 3-D Secure provided and must be signed by a CA approved by the respective 3-D Secure provider. The CSR is created in standard PKCS#10 format.

Use the following fields to create a CSR:

- Each scheme may have certain requirements regarding the format and content of CSR fields
 that need to be entered here. Please contact the scheme for information regarding creating a
 CSR. Please note that some fields may not be required by a scheme and that the following
 explanations are generic.
 - Provider (scheme)



- Common Name a descriptive name for the certificate for example 'Any Bank AHS Client Certificate'.
- Organization the name of your organization for example 'Any Bank'.
- Organization Unit the name of the department within the organization to which this certificate belong for example 'Card Services'.
- City for example 'Sydney'.
- Province enter the state or province full name for example 'New South Wales'.
- Two-letter country code for example AU for 'Australia'.
- Key size ,defaults to 1024.
- Hash Algorithm used to create the certificate request, defaults to SHA1.

Install AHS Certificate

Security > AHS Certificate > Install AHS Certificate

Use this section to install a certificate which is signed by the CA. The signed certificate must correspond to a previously created CSR for the same provider and must be in standard PKCS#7 format.

Use the following fields to install a signed certificate:

- **Provider** (scheme) Select the provider whose CA has signed the certificate.
- Click the Choose File / Browse... button adjacent to Certificate content (file), to locate and select the PKCS#7 file that contains the signed certificate or copy and paste the signed CSR (base64 text format) into the Certificate content text box.

Export AHS Certificate

Security > AHS Certificate > Export AHS Certificate

Use this section to export the SSL client certificate in a number of formats including PKCS#12 which allows you to export both private and public keys.

Use the following fields to export a certificate:

Provider (scheme).



- Type, the options are:
 - KeyStore to export both private and public keys
 - Certificate to export the public key in DER binary encoded X509 format
 - Certificate path to export the entire certificate chain in P7B format.
- If the export type selected is KeyStore, select from the **Format** list:
 - PFX to export in standard PKCS#12 format
 - JKS to export in the Java KeyStore format used by the Java Keytool and most Javabased applications.
- If the export type selected is KeyStore, enter a **File password** to protect the private key.

Import AHS Certificate

Security > AHS Certificate > Import AHS Certificate

The 3-D Secure provider may issue an SSL certificate which contains both the public and private key and is already signed. You may install this type of certificate using the import functionality provided in this section.

Use the following fields to import a certificate:

- Provider (scheme) .
- Select the certificate Format. Supported formats are JKS to export in the Java KeyStore format used by the Java Keytool and most Java-based applications or PFX to export in standard PKCS#12 format.
- Click the Choose File / Browse... button to locate and select the File
- Enter the File password which is used to protect the private key.

CAAS Certificate

Security > CAAS Certificate

This section is used to set up and maintain SSL client certificates which are used to authenticate ActiveAccess to the CAAS server. Note that the CAAS server may use mutual SSL authentication to verify the client, which in this case is ActiveAccess. Check with the CAAS server provider for more details.



The following fields and links are displayed:

- · Currently installed certificates list
- Create Certificate Request for creating a new CAAS client certificate requests.
- Install Certificate for installation of the signed CAAS client certificate
- Delete Selected Certificates link used with the Select checkbox to remove selected certificates and associated private keys.
- Import Certificate for direct installation of a signed CAAS client certificate that contains a
 private key as well as a public key.

The following fields and links are displayed for each provider:

- Certificate Information links to the Export CAAS Certificate page. The Certificate
 Information contains certificate details such as Common Name (CN), Organization (O),
 Organization Unit (OU), Location (L), State (ST) and Country (C)
- · Validity Shows the validity period of the certificate
- Status The status of a certificate can either be Valid, Expired or Not signed. You need to reapply for certificates before they expire. A certificate status is shown as not signed if the certificate is not signed by a trusted certificate authority.
- Issuer The certificate authority (CA) that issued the certificate
- Signature Algorithm The hash algorithm used to sign the certificate.

Create Certificate Request

Security > CAAS Certificate > CAAS Certificate Request

Use this section to create a certificate signing request (CSR) that can be sent to a designated certificate authority (CA) to obtain a signed certificate. The certificate is used in connection to the authentication history server designated by the 3-D Secure provided and must be signed by a CA approved by the respective 3-D Secure provider. The CSR is created in standard PKCS#10 format.

Use the following fields to create a CSR:

• Each scheme may have certain requirements regarding the format and content of CSR fields that need to be entered here. Please contact the scheme for information regarding creating a



CSR. Please note that some fields may not be required by a scheme and that the following explanations are generic.

- Common Name a descriptive name for the certificate for example 'caas-client'.
- Organization the name of your organization for example 'Internet Widgits Pty Ltd'.
- Organization Unit the name of the department within the organization to which this certificate belong for example 'Caas Services'.
- City for example 'Sydney'.
- Province enter the full name of the state or province, for example 'New South Wales'.
- Two-letter country code, for example AU for 'Australia'.
- Select a Key size from the list. Defaults to 1024.
- Select the Hash Algorithm to be used to create the certificate request from the list.
 Defaults to SHA1.

Install CAAS Certificate

Security > CAAS Certificate > Install CAAS Certificate

Use this section to install a certificate which is signed by the CA. The signed certificate must correspond to a previously created CSR for the same provider and must be in standard PKCS#7 format.

Use the following fields to install a signed certificate:

 Click the Choose File / Browse... button adjacent to Certificate content (file), to locate and select the PKCS#7 file that contains the signed certificate or copy and paste the signed CSR (base64 text format) into the Certificate content text box.

Export CAAS Certificate

Security > CAAS Certificate > Export CAAS Certificate

Use this section to export the SSL client certificate in a number of formats including PKCS#12 which allows you to export both private and public keys.



Use the following fields to export a certificate:

- Select the export Type from the list. The options are:
 - KeyStore to export both private and public keys
 - Certificate to export the public key in DER binary encoded X509 format
 - Certificate path to export the entire certificate chain in P7B format.
- If the export type selected is KeyStore, select from the Format drop down list:
 - PFX to export in standard PKCS#12 format
 - JKS to export in the Java KeyStore format used by the Java Keytool and most Javabased applications.
- If the export type selected is KeyStore, enter a **File password** to protect the private key.

Import CAAS Certificate

Security > CAAS Certificate > Import CAAS Certificate

The CAAS server operator may issue an SSL certificate which contains both the public and private key and is already signed. You may install this type of certificate using the import functionality provided in this section.

Use the following fields to import a certificate:

- Select the certificate Format. Supported formats are JKS to export in the Java KeyStore format used by the Java Keytool and most Java-based applications or PFX to export in standard PKCS#12 format.
- Click the Choose File / Browse... button to locate and select the File
- Enter the **File password** which is used to protect the private key.

Directory Server Certificate

Security > Directory Server Certificate

Dew section.

This section is used to set up and maintain client certificates used for connections to the Directory Server to send RReq.



The following fields and links are displayed:

- · Currently installed certificates list
- Create Certificate Request links to the Directory Server Certificate Request page for creating a new AHS client certificate requests.
- Install Certificate links to the Install Directory Server Certificate page for installation of the signed Directory Server certificate
- Delete Selected Certificates link used with the Select checkbox to remove selected certificates and associated private keys.
- Import Certificate links to the Import Directory Server Certificate page for direct installation
 of a signed Directory Server certificate which contains a private key as well as a public key.

The following fields and links are displayed for each provider:

- Owner the 3-D Secure provider and links to the Export Directory Server Certificate page.
 The certificate is only used for 3-D Secure transactions which belong to the same provider.
- Certificate Information Certificate details such as Common Name (CN), Organization (O), Organizational Unit (OU), Location (L), State (ST) and Country (C), Key size, Hash algorithm.
- · Validity Shows the validity period of the certificate
- Status The status of a certificate can either be Valid, Expired or Not signed. You need to reapply for certificates before they expire. A certificate status is shown as not signed if the certificate is not signed by a trusted certificate authority.
- Issuer The certificate authority (CA) that issued the certificate
- **Signature Algorithm** The hash algorithm used to sign the certificate.

Create Certificate Request

Security > Directory Server Certificate > Directory Server Certificate Request

Use this section to create a certificate signing request (CSR) that can be sent to a designated certificate authority (CA) to obtain a signed certificate. The certificate is used in connection to the authentication history server designated by the 3-D Secure provided and must be signed by a CA approved by the respective 3-D Secure provider. The CSR is created in standard PKCS#10 format.



Use the following fields to create a CSR:

- Each scheme may have certain requirements regarding the format and content of CSR fields
 that need to be entered here. Please contact the scheme for information regarding creating a
 CSR. Please note that some fields may not be required by a scheme and that the following
 explanations are generic.
 - Provider (scheme)
 - Common Name a descriptive name for the certificate for example 'Any Bank Directory Server Certificate'.
 - Organization the name of your organization for example 'Any Bank'.
 - Organizational Unit the name of the department within the organization to which this certificate belong for example 'Card Services'.
 - City for example 'Sydney'.
 - Province enter the state or province full name for example 'New South Wales'.
 - Two-letter country code for example AU for 'Australia'.
 - Key size ,defaults to 1024.
 - Hash Algorithm used to create the certificate request, defaults to SHA1.

Install Directory Server Certificate

Security > Directory Server Certificate > Install Directory Server Certificate

Use this section to install a certificate which is signed by the CA. The signed certificate must correspond to a previously created CSR for the same provider and must be in standard PKCS#7 format.

Use the following fields to install a signed certificate:

- Provider (scheme) Select the provider whose CA has signed the certificate.
- Click the Choose File / Browse... button adjacent to Certificate content (file), to locate and select the PKCS#7 file that contains the signed certificate or copy and paste the signed CSR (base64 text format) into the Certificate content text box.

Export Directory Server Certificate

Security > Directory Server Certificate > Export Directory Server Certificate



Use this section to export the SSL client certificate in a number of formats including PKCS#12 which allows you to export both private and public keys.

Use the following fields to export a certificate:

- Provider (scheme).
- **Type**, the options are:
 - KeyStore to export both private and public keys
 - Certificate to export the public key in DER binary encoded X509 format
 - Certificate path to export the entire certificate chain in P7B format.
- If the export type selected is KeyStore, select from the **Format** list:
 - PFX to export in standard PKCS#12 format
 - JKS to export in the Java KeyStore format used by the Java Keytool and most Javabased applications.
- If the export type selected is KeyStore, enter a **File password** to protect the private key.

Import Directory Server Certificate

Security > Directory Server Certificate > Import Directory Server Certificate

The 3-D Secure provider may issue an SSL certificate which contains both the public and private key and is already signed. You may install this type of certificate using the import functionality provided in this section.

Use the following fields to import a certificate:

- Provider (scheme) .
- Select the certificate Type Supported formats are JKS to export in the Java KeyStore format
 used by the Java Keytool and most Java-based applications or PFX to export in standard
 PKCS#12 format.
- Click the Choose File / Browse... button to locate and select the File
- Enter the **File password** which is used to protect the private key.



OOB Certificate

New section.

Security > OOB Certificate

This section is used to set up and maintain client certificates used for connections to the RESTful OOB adapters.

The following fields and links are displayed:

- · Currently installed certificates list
- Create Certificate Request links to the OOB Server Certificate Request page for creating a new AHS client certificate requests.
- Install Certificate links to the Install OOB Server Certificate page for installation of the signed OOB Server certificate
- Delete Selected Certificates link used with the Select checkbox to remove selected certificates and associated private keys.
- Import Certificate links to the Import OOB Server Certificate page for direct installation of a signed OOB Server certificate which contains a private key as well as a public key.

The following fields and links are displayed for each provider:

- OOB Server name links to the Export OOB Server Certificate page.
- Certificate Information Certificate details such as Common Name (CN), Organization (O),
 Organizational Unit (OU), Location (L), State (ST) and Country (C).
- · Validity Shows the validity period of the certificate
- Status The status of a certificate can either be Valid, Expired or Not signed. You need to reapply for certificates before they expire. A certificate status is shown as not signed if the certificate is not signed by a trusted certificate authority.
- Issuer The certificate authority (CA) that issued the certificate
- Signature Algorithm The hash algorithm used to sign the certificate.

Create Certificate Request

Security > 00B Server Certificate > 00B Server Certificate Request



Use this section to create a certificate signing request (CSR) that can be sent to a designated certificate authority (CA) to obtain a signed certificate. The certificate is used in connection to the authentication history server designated by the 3-D Secure provided and must be signed by a CA approved by the respective 3-D Secure provider. The CSR is created in standard PKCS#10 format.

Use the following fields to create a CSR:

- Each scheme may have certain requirements regarding the format and content of CSR fields
 that need to be entered here. Please contact the scheme for information regarding creating a
 CSR. Please note that some fields may not be required by a scheme and that the following
 explanations are generic.
 - OOB Server select from the list.
 - Common Name a descriptive name for the certificate for example 'Any Bank OOB Server Certificate'.
 - Organization the name of your organization for example 'Any Bank'.
 - Organizational Unit the name of the department within the organization to which this certificate belong for example 'Card Services'.
 - o City for example 'Sydney'.
 - Province enter the state or province full name for example 'New South Wales'.
 - Two-letter country code for example AU for 'Australia'.
 - Key size ,defaults to 1024.
 - Hash Algorithm used to create the certificate request, defaults to SHA1.

Install OOB Server Certificate

Security > 00B Server Certificate > Install 00B Server Certificate

Use this section to install a certificate which is signed by the CA. The signed certificate must correspond to a previously created CSR for the same provider and must be in standard PKCS#7 format.

Use the following fields to install a signed certificate:

• **OOB Server** - select from the list.



 Click the Choose File / Browse... button adjacent to Certificate content (file), to locate and select the PKCS#7 file that contains the signed certificate or copy and paste the signed CSR (base64 text format) into the Certificate content text box.

Export OOB Server Certificate

Security > OOB Server Certificate > Export OOB Server Certificate

Use this section to export the SSL client certificate in a number of formats including PKCS#12 which allows you to export both private and public keys.

Use the following fields to export a certificate:

- **OOB Server** select from the list.
- Type, the options are:
 - KeyStore to export both private and public keys
 - Certificate to export the public key in DER binary encoded X509 format
 - Certificate path to export the entire certificate chain in P7B format.
- If the export type selected is KeyStore, select from the Format list:
 - PFX to export in standard PKCS#12 format
 - JKS to export in the Java KeyStore format used by the Java Keytool and most Javabased applications.
- If the export type selected is KeyStore, enter a **File password** to protect the private key.

Import OOB Server Certificate

Security > OOB Server Certificate > Import OOB Server Certificate

The 3-D Secure provider may issue an SSL certificate which contains both the public and private key and is already signed. You may install this type of certificate using the import functionality provided in this section.

Use the following fields to import a certificate:

• OOB Server - select from the list.



- Select the certificate Type Supported formats are JKS to export in the Java KeyStore format
 used by the Java Keytool and most Java-based applications or PFX to export in standard
 PKCS#12 format.
- Click the Choose File / Browse... button to locate and select the File
- Enter the **File password** which is used to protect the private key.

Risk Certificate

New section.

Security > Risk Certificate

This section is used to set up and maintain client certificates used for connections to the RESTful RBA adapters.

The following fields and links are displayed:

- Currently installed certificates list
- Create Certificate Request links to the Risk Server Certificate Request page for creating a new AHS client certificate requests.
- Install Certificate links to the Install Risk Server Certificate page for installation of the signed Risk Server certificate
- Delete Selected Certificates link used with the Select checkbox to remove selected certificates and associated private keys.
- Import Certificate links to the Import Risk Server Certificate page for direct installation of a signed Risk Server certificate which contains a private key as well as a public key.

The following fields and links are displayed for each provider:

- Risk Server name links to the Export Risk Server Certificate page.
- Certificate Information Certificate details such as Common Name (CN), Organization (O),
 Organizational Unit (OU), Location (L), State (ST) and Country (C).
- · Validity Shows the validity period of the certificate
- Status The status of a certificate can either be Valid, Expired or Not signed. You need to reapply for certificates before they expire. A certificate status is shown as not signed if the certificate is not signed by a trusted certificate authority.



- Issuer The certificate authority (CA) that issued the certificate
- Signature Algorithm The hash algorithm used to sign the certificate.

Create Risk Server Certificate Request

Security > Risk Certificate > Risk Server Certificate Request

Use this section to create a certificate signing request (CSR) that can be sent to a designated certificate authority (CA) to obtain a signed certificate. The certificate is used in connection to the authentication history server designated by the 3-D Secure provided and must be signed by a CA approved by the respective 3-D Secure provider. The CSR is created in standard PKCS#10 format.

Use the following fields to create a CSR:

- Each scheme may have certain requirements regarding the format and content of CSR fields
 that need to be entered here. Please contact the scheme for information regarding creating a
 CSR. Please note that some fields may not be required by a scheme and that the following
 explanations are generic.
 - Risk Server select from the list.
 - Common Name a descriptive name for the certificate for example 'Any Bank Risk Server Certificate'.
 - Organization the name of your organization for example 'Any Bank'.
 - Organizational Unit the name of the department within the organization to which this certificate belong for example 'Card Services'.
 - City for example 'Sydney'.
 - Province enter the state or province full name for example 'New South Wales'.
 - Two-letter country code for example AU for 'Australia'.
 - Key size ,defaults to 1024.
 - Hash Algorithm used to create the certificate request, defaults to SHA1.

Install Risk Server Certificate

Security > Risk Certificate > Install Risk Server Certificate



Use this section to install a certificate which is signed by the CA. The signed certificate must correspond to a previously created CSR for the same provider and must be in standard PKCS#7 format.

Use the following fields to install a signed certificate:

- · Risk Server select from the list.
- Click the Choose File / Browse... button adjacent to Certificate content (file), to locate and select the PKCS#7 file that contains the signed certificate or copy and paste the signed CSR (base64 text format) into the Certificate content text box.

Export Risk Server Certificate

Security > Risk Certificate > Export Risk Server Certificate

Use this section to export the SSL client certificate in a number of formats including PKCS#12 which allows you to export both private and public keys.

Use the following fields to export a certificate:

- · Risk Server select from the list.
- Type, the options are:
 - KeyStore to export both private and public keys
 - Certificate to export the public key in DER binary encoded X509 format
 - Certificate path to export the entire certificate chain in P7B format.
- If the export type selected is KeyStore, select from the **Format** list:
 - PFX to export in standard PKCS#12 format
 - JKS to export in the Java KeyStore format used by the Java Keytool and most Javabased applications.
- If the export type selected is KeyStore, enter a **File password** to protect the private key.

Import Risk Server Certificate

Security > Risk Server Certificate > Import Risk Server Certificate



The 3-D Secure provider may issue an SSL certificate which contains both the public and private key and is already signed. You may install this type of certificate using the import functionality provided in this section.

Use the following fields to import a certificate:

- · Risk Server select from the list.
- Select the certificate Type Supported formats are JKS to export in the Java KeyStore format
 used by the Java Keytool and most Java-based applications or PFX to export in standard
 PKCS#12 format.
- · Click the Choose File / Browse... button to locate and select the File
- Enter the File password which is used to protect the private key.

CA Certificate

Security > CA Certificate

This section is used to set up and maintain trusted certificate authority certificates.

ActiveAccess uses this list in order to validate the certificate chain of installed certificates and to authenticate remote connections to external SSL enable servers such as the authentication history server.

ActiveAccess is installed with the most recent CA certificates from 3-D Secure providers. However, you may need to maintain and add new certificates they may be introduced at a later time by the 3-D Secure provider or in order to test with non-production 3-D Secure systems that use a different CA.

The following fields and links are displayed:

- Currently installed certificates list
- Import CA Certificate links to the Import CA Certificate page for installation of trusted root certificates.
- Delete Selected Certificates link used with the Select checkbox to remove selected certificates.



The following fields and links are displayed for each provider:

- **Owner** the 3-D Secure provider. Clicking on the link allows you to save the certificate in DER binary encoded X509 certificate format.
- Type displays the key type
- Certificate Information Certificate details such as Common Name (CN), Organization (O),
 Organizational Unit (OU), Location (L), State (ST) and Country (C)
- · Validity Shows the validity period of the certificate
- Status The status of a certificate can either be Valid, Expired or Not signed. You need to reapply for certificates before they expire. A certificate status is shown as not signed if the certificate is not signed by a trusted certificate authority.
- Issuer The certificate authority (CA) that issued the certificate.
- Signature Algorithm The hash algorithm used to sign the certificate.

Import Certificate

Security > CA Certificate > Import CA Certificate

This section allows you to install additional trusted root certificates.

ActiveAccess is installed with the most recent CA certificates from 3-D Secure providers. However, you may need to maintain and add new certificates they may be introduced at a later time by the 3-D Secure provider or in order to test with non-production 3-D Secure systems that use a different CA.

Use the following fields to import a certificate:

- Provider select the scheme from the list
- **Key type** select the key type from the list
- Click the **Choose File** / **Browse...** button to locate and select the **File**. ActiveAccess supports X509 certificates in DER encoded binary or based64 encoded formats.



Servers



System Administrators only



This section is used to manage administration and access control server nodes when ActiveAccess is running in a load-balanced configuration. It is also used for setting up and maintaining authentication history servers.

When ActiveAccess is installed, the first instance of administration server and access control server are automatically recognised. However, as you expand the system by adding more administration or access control servers, for load-balancing or fail-over, you are required to introduce newly added nodes using the facility provided in this section. ActiveAccess uses these lists in order to communicate changes in the administration and options to all administration and access control server nodes.



Warning

If you do not properly introduce these servers here, the additional servers will continue to function, however they will not receive notifications when changes occur to options throughout the admin interface, which will result in system instability.



Warning

Registration and enrolment server nodes do not need to be introduced as they each run independently.

Servers has the following menu options:

- MIA Servers for managing MIA Servers
- Access Control Servers for managing Access Control Servers
- Authentication History Servers for managing Authentication History Servers
- Centralised Authentication and Authorisation Server for managing Centralised Authentication and Authorisation Servers.



- Out of Bank Authentication Server new section for managing OOB Authentication Servers
- Risk Server - new section for managing Risk Servers

MIA Servers

Servers > MIA Servers

A server entry is automatically created for the first instance of administration that you install. If you wish to install more than one server, you should first create an entry for the new server here and specify the IP address of the new instance and an arbitrary but descriptive name for the server.

This page displays:

- MIA servers list
- Add Server link
- Delete Selected Servers link used with the Select checkbox to remove selected servers.

The following fields and links are displayed for each administration server:

- IP link to the Edit Server page
- · Server Name

Access Control Servers (ACS)

Servers > ACS Server Management

A server entry is automatically created for the first instance of ACS that you install. If you wish to install more than one server, you should first create an entry for the new server here and specify the IP address of the new instance and an arbitrary but descriptive name for the server.

This page displays:

- Access control servers list
- Delete Selected ACS Servers link used with the Select checkbox to remove selected servers.



The following fields and links are displayed for each administration server:

- Server name link to the Edit Server page
- Domain name
- · Binding IP
- The AHS Client column shows whether the AHS client functionality is turned on for the ACS.
 If enabled the ACS will send PATransReq messages to the authentication history server.

Authentication History Servers (AHS)

Servers > AHS Server Management

This section is used to define one or more authentication history servers. The authentication history server is a repository of authentication activity maintained by the 3-D Secure provider, which can be used for dispute resolution by Issuers and Acquirers. ActiveAccess sends a copy of each 3-D Secure authentication attempt to the appropriate authentication history server. Not all 3-D Secure providers support and require the transactions to be sent to an authentication history server (e.g. Visa and Mastercard require AHS but other providers do not).

This page displays:

- · Authentication history servers list
- · Add AHS Server
- Delete Selected AHS Servers link used with the Select checkbox to remove selected servers.

The following fields and links are displayed for each administration server:

- *URL* of the authentication history server, as provided by the 3-D Secure provider, links to the **Edit AHS Server** page.
- ACS ID provided by the AHS administrator for the authentication history server.
- Login ID provided by the AHS administrator for the authentication history server.
- **Provider**, which is the entity (e.g. Mastercard or Visa) that manages the authentication history server.

Edit AHS Server

Servers > AHS Servers> Edit AHS Server



The Edit AHS Server page is used to change AHS details

Fields displayed on this page:

Provider

This is the entity (e.g. Mastercard or Visa) that manages the authentication history server.

• URL

This the fully qualified URL of the authentication history server as provided by the 3-D Secure provider.

Authentication history server ACS ID, Login ID and Password

These are provided by the AHS administrator. You will need to contact the 3-D Secure provider to obtain this information. This information is required in order to establish a successful connection to the authentication history server.

Add AHS Server

Servers > AHS Servers > AHS Server Management > Add AHS Server

The Add AHS Server page is used to define new AHS servers

Fields displayed on this page:

- Provider
- URL
- · ACS ID
- · Login ID
- Password



Info

For full information on individual fields please refer to the Edit AHS Server section of this document.

Centralised Authentication and Authorisation Servers (CAAS)

Servers > CAAS Server Management



This section is used to define one or more centralised authentication and authorisation servers. Centralised authentication and authorisation servers are remote authentication servers, which allow issuer banks to connect ActiveAccess with previously implemented remote servers that support authentication with the cardholder's existing database.

This page displays:

- Centralised authentication and authorisation servers list
- · Add CAAS Server
- Delete Selected CAAS Servers link used with the Select checkbox to remove selected servers.

The following fields and links are displayed for each administration server:

- **CAAS URL**, which is the fully qualified URL of the remote authentication server (CAAS). Refer to CAAS document for further details of the URL. It links to the **Edit CAAS Server** page.
- CAAS username, which determines the username to access the CAAS server.

Edit CAAS Server

Servers > CAAS Servers > Edit CAAS Server

The Edit CAAS Server page is used to change CAAS details

Fields displayed on this page:

· CAAS URL

This is the fully qualified URL of the remote authentication server (CAAS). Refer to CAAS document for further details of the URL.

· CAAS username

This is the username used for accessing the CAAS server. Leave it blank if there is no username required by the CAAS authentication server.

CAAS password

This is the password associated with the CAAS username. Leave it blank if no password is required.

• CAAS Connection timeout in seconds (acceptable range is 60 to 9000)



This determines the maximum amount of time the ACS, as a CAAS client, can take to complete a connection with the CAAS authentication server.

Maximum SMS Request (acceptable range is 0 to 99) (0 to disable)

This determines the maximum number of SMS requests that the ACS will attempt to initiate with the remote CAAS server. Enter 0 to disable sending SMS initialisation requests to the remote server.

· SMS Template

This template is used by the remote CAAS server to send the SMS OTP via a text message.

Use **{0}** within the template to indicate the Token/OTP.

The following flags are available to use within the template:

- \$LastFourDigitsOfPAN to indicate the last four digits of the card
- \$MerchantName to indicate the merchant name for the current transaction
- \$PurchaseRealAmount to indicate the transaction amount.



See SMS Template Parameters for a full list of available parameters.

Email Template

This template is used by the remote CAAS server to send the OTP via an email message.

Use **{0}** within the template to indicate the Token/OTP.

The following flags are available to use within the template:

- \$LastFourDigitsOfPAN to indicate the last four digits of the card number
- \$MerchantName to indicate the merchant name for the current transaction
- \$PurchaseRealAmount to indicate the transaction amount
- \$ServicePhoneNumber to indicate the issuer's customer service phone number
- \$IssuerEmail to indicate the issuer's email address



Note

See Email Template Parameters for a full list of available parameters.

· Email Subject Template

This template is used by the remote CAAS server for the Subject to be used for the OTP via email message.

The flags described in Email Template above can be used for the Subject template.

- Select the Use Proxy checkbox if the ACS is to connect to the remote CAAS server via a
 proxy and complete the following:
 - Proxy host, which determines the proxy's IP address or domain name.
 - Proxy port, which determines the proxy's port.
 - **Proxy username**, which determines the proxy's username, if required.
 - Proxy password associated with the Proxy username, if required.
 - Apply button to save updated settings.
 - Click the Check CAAS Status link to verify that the CAAS server can be reached by the current remote authentication settings.

The **Check CAAS Status** will be displayed, which shows the current status of the remote authentication server and is used to indicate the remote authentication server is running or not. * Click the **Retry** button to re-test the remote authentication server status.

Click the Close button to close this page.

Add CAAS Server

Servers > CAAS Servers > CAAS Server Management > Add CAAS Server

The **Add CAAS Server** page is used to define new CAAS servers

Fields displayed on this page:

- · CAAS URL
- CAAS username
- CAAS password
- · CAAS Connection timeout



- · Maximum SMS request
- SMS template
- · Email template
- · Email subject template
- Use proxy
- Proxy host
- Proxy port
- · Proxy username
- Proxy password



Info

For full information on individual fields, please refer to the Edit CAAS Server section.



Utilities



System Administrators only

This section is used to load, run and manage add-ins from within the ActiveAccess administration. Utilities can be assigned to, and run on behalf of, an Issuer or Issuer Group.

Utilities include:

PCIDSS Key Retiring Utility

This PCIDSS Key Retiring utility retires specified encryption keys and re-generates new encryption keys. Related table columns are then re-encrypted by new keys. The utility allows for the automatic retiring of old keys and re-generation of new ones, while keys manually created by HSM administrators can also be introduced as new keys.

In the case of automatic key retiring, the utility can be run for selected general MIA / ACS settings encryption keys or issuer / groups based on key type and provider. Replacement with manually created keys can be done for general MIA / ACS settings encryption keys or issuer by entering the new key alias of keys created by the HSM administrator.

For further information, refer to Key Retiring Utility.

Utilities has the following sub menu options:

- Utilities used for managing add-in utilities
- Upload Utility used to upload add-in utilities on behalf of one or a number of Issuer or Issuer Groups.

The first **Utilities** page is **Utilities Search Result**.



Note

Utilities shown may vary.



Utilities

Utilities > Utilities Search Results

The Utilities section is used for viewing the details and availability of utilities in the system, and for managing and running selected utilities.



Utilities shown may vary.

This page displays:

- Utilities List
- **Delete** button to allow selected utilities to be deleted

The following fields and links are displayed for each utility:

- · Select checkbox
- · Name
- · File Name
- Version
- · Issuer
- Group
- · Creation time
- Run link links to the first page of the selected Utility.

Upload Utility

Utilities > Upload Utility

Use this page to upload utilities to the system or on behalf of one or a number of Issuers or Issuer Groups.

Use the following fields to upload a utility:

Select the appropriate Issuer or Group to upload the utility for.



- File name click the Choose File button to locate and select the utility file to upload.
- Apply to upload the selected utility.



Key Retiring Utility

△ Previously AA85 - PCIDSS Key Retiring Utility.pdf

This PCIDSS Key Retiring utility retires specified encryption keys and regenerates new encryption keys. Related table columns are then re-encrypted by new keys. The utility allows for the automatic retiring of old keys and regeneration of new ones, while keys manually created by HSM administrators can also be introduced as new keys.

In the case of automatic key retiring, the utility can be run for selected general MIA / ACS settings encryption keys or issuer / groups based on key type and provider. Replacement with manually created keys can be carried out for general MIA / ACS settings encryption keys or issuers by entering the new key alias of keys created by the HSM administrator.

Uploading the Utility

A System Administrator will be responsible for uploading the utility through the MIA (**Utilities > Upload Utility**).

To upload the utility

- There is no need to select an Issuer or Group to upload this utility.
- Browse to locate and select the **File name** (PCIDSSKeyRetiringUtility.war).
- Click the Apply button to upload the utility.

The utility will be listed in the MIA utilities section (**Utilities** > **Utilities**) **PCIDSS Key Retiring Utility**.

Running the Utility

This utility makes changes in the HSM keystore and re-encrypts cardholder data and configuration settings in the database. Therefore, a full backup of the HSM keystore and ActiveAccess database should be taken before running this utility. If any archive database has been configured for automatic archiving, a backup of its database should be taken as well.



Note

Automatic archiving and purging in **System Management > Archive Management** must be disabled before running the utility. During the utility run, all ActiveAccess modules must stop receiving requests from the outside world.

Utility List

To run the utility

- Go to the MIA utilities section (Utilities > Utilities)
- Click the Run link adjacent to the PCIDSS Key Retiring Utility.

The **PCIDSS Key Retiring Utility** screen is displayed prompting users to select which issuer, group or general encryption keys to run the utility for.

Retiring keys automatically

To customise the key retiring process

Select Retire old keys and generate new ones automatically

To retire keys automatically

- Select the **General encryption keys** radio button
 - Select the MIA settings encryption key checkbox
 - Select the ACS settings encryption key checkbox
- Select the Issuer radio button
 - Select the Issuer from the drop down list
 - Select the key type from the Type drop down list
 - Select the provider from the **Provider** drop down list
 - If the Type selected is RSA Signing, select the key size from the Key size drop down list.
- Select the **Group** radio button
 - Select the issuer group from the Group drop down list
 - Select the key type from the Type drop down list
 - Select the provider from the **Provider** drop down list



- If the key type selected for Type is RSA Signing, select the Key size from the drop down list.
- · Click the Prepare / Run button



The key retiring process for SecureCode HMAC, CAVV, and RSA Signing Keys is a one-stage process and once one of these key type options is selected, the Run button will be available. The process for retiring General/Data Encryption Keys occurs in two stages: Preparation and Finalization. For stage one of the process, the **Prepare** button will be available.

Retiring keys using manually created keys

Select the following field to customise the key retiring process

 Select Retire old encryption keys and use the keys which have been created by HSM administrator

Use the following fields for retiring keys using manually created keys

- Select the **General encryption keys** radio button
 - Select the MIA settings encryption key checkbox and enter the created key in the New key alias field
 - Select the ACS settings encryption key checkbox and enter the created key in the New key alias field
- · Select the Issuer radio button
 - Select the Issuer from the drop down list
 - Enter the created key in the New key alias field
- · Click the **Prepare** button

Results

When the process is complete, the Results will be available for immediate display. For more details of the utility process you can check **AA_HOME/mia_log.log**.



Encryption Key - Preparation Failure

If there is a failure within any of the steps of the preparation process, the utility stops and logs the details of the issue for the administrator's reference.

Encryption Key - Failed Resume/Rollback

If the encryption key retiring fails in the preparation stage, the process can be resumed from the latest status once the issue is resolved or all the changes can be undone using the Rollback option. When a process has a failed status, new processes cannot be started until the current process is successfully resumed or rolled back.

Encryption Key - Preparation Success

During the encryption key retiring process, a new encryption key is generated and a temporary column is added to the specified table for every column that keeps encrypted data. The data from the main column is decrypted using the old key, then encrypted using the new key and stored in a temp column.

Encryption Key - Finalization Re-encrypt/Finalize/Rollback

Once the preparation stage of the encryption key retiring process is completed successfully, the process can be finalized.

If any new data has been created after the completion of the preparation stage, the encryption process can be redone using the **Re-encrypt** option.

Alternatively, all the changes made during the preparation stage can be undone using the **Rollback** option.

The **Finalize** option completes the encryption key retiring process. In the Finalization process, once all the required columns are re-encrypted, the main column is dropped and the **temp** column is renamed to the name of the main column. In the final step, all the required constraints and indexes are created for the main column.

When the MIA settings encryption key is automatically or manually retired and replaced with a new one

If there are any other instances of MIA, Registration or Enrolment servers, rather than the current server, in the environment, replace the **DBOWNERPASSWORD** and **DBPASSWORD** values with their plain values in the **TOMCAT_HOME/bin/config/miaconfig.properties**, **regconfig.properties** or **eb_config.properties** file, then add the following properties to it and restart:



HSMENCALIAS=MIA_DB_DESEDE_NEW (where MIA_DB_DESEDE_NEW is the new MIA settings encryption key alias in HSM)

PLAIN_TEXT=

When the ACS settings encryption key is automatically or manually retired and replaced with a new one

If there is any other instance of ACS, rather than the current server, in the environment, replace the **DBOWNERPASSWORD** and **DBPASSWORD** values with their plain values in the **TOMCAT_HOME/bin/config/acsconfig.properties** file, then add the following properties to it and restart:

HSMENCALIAS=AA_Administration_NEW (where AA_Administration_NEW is the new ACS settings encryption key alias in HSM)

PLAIN_TEXT=

When the Issuer's data encryption key is automatically or manually retired and replaced with a new one

The current notification report files of the selected issuer are no longer valid and will be recollected in the next run of the specified job in the Registration server.

If there is any other instance of Registration server, rather than the current instance, in the environment, add the following property into the **TOMCAT_HOME/bin/config/regconfig.properties** file:

NOTIFICATION_REPORT_REGEN_ISSUERIDS=1234567890 (where 1234567890 is the Issuer ID)

If property **NOTIFICATION_REPORT_REGEN_ISSUERIDS** already exists, modify its value by appending the Issuer ID to the end and restart.

Encryption Key - Archive

Following the successful finalization of the encryption key retiring process, if archiving is configured on the system, the encryption key of the archive database must also be retired and replaced using the **Re-encrypt Archive** option.



Issuers





System Administrators and Issuer Administrators only



This section is used to set issuer specific settings; maintain and upload card details; create and maintain custom pages and manage keys.

When a new issuer is created all issuer settings are set to default.

Issuers has the following menu options:

Issuers has the following sub menu options:

- Settings
- · Upload Registration Files
- · Registration Requests
- · Custom Pages
- · Key Management

The first **Issuers** page is **Settings**.

Settings

This section is used to set up and maintain issuer system settings for displaying PARes, providing proof of authentication attempts to merchants, maximum unsuccessful authentication/ enrolment attempts permitted for cardholders and the automatic unlock lag time.



Note

Settings are different for Local and Remote Issuers.



Local Settings

Issuer > Settings

Use the following fields to manage Local Settings:

- Select an Issuer from the drop down list, to display its settings.
 This field is not displayed if the user is assigned to a single issuer.
- Issuer ID cannot be changed.
- BINs displays a list of BINs currently assigned to the selected issuer. The BIN list can only
 be changed by a user with System Admin access level from System Management > Issuer
 Management section.
- Maximum authentication attempts allows the administrator to setup an upper limit for the
 number of successful authentications that can be performed by each user (acceptable range
 is 0 to 999) in a specified period of time (acceptable range is 0 to 24 hours). This is
 particularly useful when the issuer is being charged per transaction for each authentication
 and it makes sense to set an upper limit for the financial liability.

This option is disabled by default which means the number of successful authentications that can be performed by the user is not limited.

Once a set limit is reached, further authentication attempts fail at the UEReq/UERes level with status code 'U' and reason code '5' (maximum number of transactions exceeded).

• Maximum unsuccessful attempts that will be permitted for unsuccessful authentication or enrolment attempts by cardholders (acceptable range is 0 to 9).

The default value is **3**, which means that 4 unsuccessful authentication or registration attempts with a card will result in the card being locked to avoid further access for security reasons. An issuer may change to any other value to comply with their internal policy.



Warning

Setting this field to 0 disables the automatic locking mechanism and is not recommended.

Maximum interaction is used to set a maximum number of cardholder interactions as
determined by the selected Challenge Flows and security requirements to allow an
appropriate number of cardholder retries without going beyond the pre-set maximum
(acceptable range is 0 to 10). When the limit is reached, the transaction fails but the card will
not be locked.



Automatic unlock time in minutes (acceptable range is 0 to 1440). A currently locked card
can be automatically unlocked after the amount of time specified here has passed.

This may help to reduce helpdesk calls if set properly.

The default value is **0**, which implies that this field is disabled and as such all locked accounts have to be manually unlocked by helpdesk staff.

- Specify the cardholder **Password policy** using the following:
 - Minimum password length between 1 and 128 chars (typically 6)
 - Maximum password length between 1 and 128 chars (typically 16)
 - Minimum password digit, the minimum number of numerical characters the password must contain. The default value is 0, which disables this field.
 - Minimum password capital letter, the minimum number of capital letters the password must contain (typically 1). The default value is 0, which disables this field.



The sum total of the numbers entered for **Minimum password digit** and **Minimum password capital letter** must be less than or equal to the **Minimum password length**.

· Time zone

This allows administrators to set an individual time zone for the specified issuer.

The default time zone is set when the application is installed and is displayed for reference, on the menu bar, from where it can be modified at any time, as and when appropriate. Modification of the Time zone on the menu bar *does not* change the Time zone for the Issuer in the Issuer Settings.

Note

If you modify the Time zone in the menu bar it will persist for the current session only. It will revert to the Time zone entered in the Issuer settings, the next time you login.

All search parameters for transactions, audit logs and reports (daily, monthly and annual) will be based on the Time zone specified on the menu bar at the time of the search.



A

Warning

IMPORTANT: If the time zone in **Issuers > Settings** is changed, it will impact the data displayed for issuer reports (daily, monthly and annual). When attempting to change the time zone, a warning message is displayed with the following options:

• **Continue and delete report data** - reports will not be available for the selected issuer until the next overnight report run, which will use the new time zone.

NOTE: If auto archive is enabled, archived data will no longer be collected and previous report data will be lost.

- **Continue and keep report data** existing report data will be inaccurate due to the time change. Accurate reports will not be available until the next overnight report run, which will use the new time zone.
- Cancel time zone will not be changed.

Language selection during authentication

This allows administrators to enable or disable the language selection page displayed to cardholders during the challenge process of 3-D Secure 2 authentications.

A link is provided to Provider Settings.

Provider Settings

There are a number of settings that can be specified per authentication scheme. You should set these parameters in accordance with the recommendation of the 3-D Secure authority of each scheme.

Issuer > Settings > Provider Settings

Use the following fields to view / edit Providers settings:

- · Select an Issuer from the drop down list
- Select a **Provider ID** from the drop down list
- Select Enabled or Disabled from the Activation during shopping drop down list to enable or disable the cardholder registration during the shopping process.
 - Enabling this option allows an issuer to dynamically enrol the cardholders while they are shopping at a 3-D Secure enabled merchant site. The activation during shopping process only applies to those cardholders who have been pre-registered by their issuer in the system.
- Select Enabled or Disabled from the Proof of authentication attempt drop down list to enable to disable providing authentication attempt guarantee to merchants.



This option applies to SafeKey, SecureCode, ProtectBuy, J/Secure and Verified by Visa in 3-D Secure version 1.0.2 and later. An issuer may choose to provide proof of authentication attempts for non-enrolled cardholders, when an authentication is requested by the merchant. Proof of attempt processing provides guarantee of funds transfer to the merchant. This may shift the liability to the issuer despite the fact the cardholder was not enrolled and could not be authenticated. Proof of attempt is an incentive for the merchants to implement 3-D Secure.

- Specify the value for **Maximum ADS proof of attempts** (acceptable range is 0 to 9). The option limits the number of times a user is allowed to opt-out of ADS processes and still receive proof of authentication attempt status code. Once the limit is reached, cancelling ADS will result in PARes status='N' to be returned to the merchant and it is likely that cardholder transaction will not be authorised by the merchant. Set this option to 0, if you wish to grant unlimited authentication attempts to cardholders.
- Specify the value for **PAReg freshness period** in minutes (acceptable range is 0 to 60). The default value 0, which effectively disables this option.

An ACS may receive duplicate PAReg messages due to cardholder actions (for example, if the cardholder clicks the **Back** or **Refresh** buttons during the authentication process). In order to provide good customer service, and minimise cardholder confusion, the 3-D Secure protocol recommends that receipt of a duplicate PAReq within a reasonable time should not be treated as an error. This is called the **PAReq freshness period**. According to the 3-D Secure bulletin of July 12, 2004, the recommended period should be between 10 and 15 minutes.

Warning

ActiveAccess sends a PARes with status code 'U' and iRegCode 56, if a duplicate PAReg is received outside the period specified by this parameter.

Warning

The ADS and attempt process for Visa, American Express, Diners Club International and JCB is the same but different for Mastercard. Mastercard does not currently recognise attempt processing in the sense defined by Visa specification and does not provide authentication guarantee and liability shift if the cardholder is not enrolled. However, Mastercard still requires a PARes with status 'A' to be sent when the cardholder cancels ADS up to the limit defined by the issuer. For more information refer to Visa 3-D Secure standard and Mastercard SecureCode specification.

• Mastercard SecureCode only: Select Mastercard SecureCode or Mastercard Identity Check from the **Authentication type** drop down list.



- American Express SafeKey only: Specify the value for Maximum forgot password attempts
 (acceptable range is 0 to 9, default is 2 as specified in the SafeKey Issuer Implementation
 Guide). The option limits the number of times a user is allowed to enter an incorrect SafeKey
 before the card is locked. Once the limit is reached, it will result in PARes status='N' to be
 returned to the merchant and the cardholder transaction may not be authorised by the
 merchant.
- Select A (Attempted) or N (Not approved) from the Unsupported device PARes status drop down list.

This option specifies the PARes to be used for unsupported devices.

Specify any Browser Unsupported devices in the text box

This is for specifying browsers / devices for which authentication is not supported in browser mode. It can also be used to quickly remove support if, for example, a security issue has been reported for a particular browser.

Separate multiple browsers / devices using commas (,). This setting is not case sensitive.

Specify any App Unsupported devices in the text box

This is for specifying browsers / devices for which authentication is not supported in app mode. It can also be used to quickly remove support if, for example, a security issue has been reported for a particular browser.

Separate multiple browsers / devices using commas (,). This setting is not case sensitive.

Set the Challenge Mandated Indicator

The ACS decides based on the ACS Challenge Mandated Indicator, the 3DS Requestor Challenge Indicator, and the ACS Rendering Type whether to perform the requested challenge.

 Cardholder info for non-exempt authentication - Text provided by the ACS to the cardholder during a frictionless transaction that was not authenticated by the ACS.

It is optional for issuers to provide information to the cardholder.



"Additional authentication is needed for this transaction, please contact (Issuer Name) at xxx-xxx-xxxx."

 ACS Operator ID - An ACS identifier assigned by the Directory Server. Each Directory Server can provide a unique ID to each ACS on an individual basis.



• **Broad Info** - Unstructured information sent between the 3DS Server, the Directory Server and the ACS.



"TLS 1.x will be turned off starting summer 2019"

• **Display attempt time** - The duration of displaying an attempt page for JCB cards only in case of attempt returning status. A value of **0** indicates that no attempt page should be shown.

Remote Settings

Issuers > Settings

Use the following fields to view/ edit Remote Settings:

- Issuer This field is not displayed if the user is assigned to a single issuer.
- · Issuer ID cannot be changed
- Time zone

This allows administrators to set an individual time zone for the specified issuer.

The default time zone is set when the application is installed and is displayed for reference, on the menu bar, from where it can be modified at any time, as and when appropriate. Modification of the Time zone on the menu bar *does not* change the Time zone for the Issuer in the Issuer Settings.



If you modify the Time zone in the menu bar it will persist for the current session only. It will revert to the Time zone entered in the Issuer settings, the next time you login. All search parameters for transactions, audit logs and reports (daily, monthly and annual) will be based on the Time zone specified on the menu bar at the time of the search.



A

Warning

IMPORTANT: If the time zone in **Issuers > Settings** is changed, it will impact the data displayed for issuer reports (daily, monthly and annual). When attempting to change the time zone, a warning message is displayed with the following options:

 Continue and delete report data - reports will not be available for the selected issuer until the next overnight report run, which will use the new time zone.

NOTE- If auto archive is enabled, archived data will no longer be collected and previous report data will be lost.

- **Continue and keep report data** existing report data will be inaccurate due to the time change. Accurate reports will not be available until the next overnight report run, which will use the new time zone.
- Cancel time zone will not be changed.

Authentication Scheme Settings

There are a number of settings that can be specified per authentication scheme including activation during shopping, attempt processing and PAReq freshness period. You should set these parameters in accordance with the recommendation of the 3-D Secure authority of each scheme.

Select Enabled or Disabled from the Use ACS local settings drop down list.
 Enabling this option allows issuer settings to be set locally in the ACS instead of remotely on the CAAS side.



Note

If **Disabled**, refer to Remote Messaging Specification for further information on setting these parameters.

If Enabled:

- Select Enabled or Disabled from the Activation during shopping drop down list to enable or disable the cardholder registration during the shopping process.
 - Enabling this option allows an issuer to dynamically enrol the cardholders while they are shopping at a 3-D Secure enabled merchant site. The activation during shopping process only applies to those cardholders who have been pre-registered by their issuer in the system.
- Select Enabled or Disabled from the Proof of authentication attempt drop down list to enable to disable providing authentication attempt guarantee to merchants.
 - This option applies to SafeKey, SecureCode, ProtectBuy, J/Secure and Verified by Visa in 3-D Secure version 1.0.2 and later. An issuer may choose to provide proof of authentication



attempts for non-enrolled cardholders, when an authentication is requested by the merchant. Proof of attempt processing provides guarantee of funds transfer to the merchant. This may shift the liability to the issuer despite the fact the cardholder was not enrolled and could not be authenticated. Proof of attempt is an incentive for the merchants to implement 3-D Secure.

- Specify the value for Maximum ADS proof of attempts (acceptable range is 0 to 9). The
 option limits the number of times a user is allowed to opt-out of ADS processes and still
 receive proof of authentication attempt status code. Once the limit is reached, cancelling
 ADS will result in PARes status='N' to be returned to the merchant and it is likely that
 cardholder transaction will not be authorised by the merchant. Set this option to 0, if you
 wish to grant unlimited authentication attempts to cardholders.
- Specify the value for **PAReq freshness period** in minutes (acceptable range is 0 to 60). The default value 0, which effectively disables this option.

An ACS may receive duplicate PAReq messages due to cardholder actions (for example, if the cardholder clicks the **Back** or **Refresh** buttons during the authentication process). In order to provide good customer service, and minimise cardholder confusion, the 3-D Secure protocol recommends that receipt of a duplicate PAReq within a reasonable time should not be treated as an error. This is called the **PAReq freshness period**. According to the 3-D Secure bulletin of July 12, 2004, the recommended period should be between 10 and 15 minutes.



Warning

ActiveAccess sends a PARes with status code 'U' and iReqCode 56, if a duplicate PAReq is received outside the period specified by this parameter.

\mathbf{A}

Warning

The ADS and attempt process for Visa, American Express, Diners Club International and JCB is the same but different for Mastercard. Mastercard does not currently recognise attempt processing in the sense defined by Visa specification and does not provide authentication guarantee and liability shift if the cardholder is not enrolled. However, Mastercard still requires a PARes with status 'A' to be sent when the cardholder cancels ADS up to the limit defined by the issuer. For more information refer to Visa 3-D Secure standard and Mastercard SecureCode specification.

 Mastercard SecureCode only: Select Mastercard SecureCode or Mastercard Identity Check from the Authentication type drop down list.



- American Express SafeKey only: Specify the value for Maximum forgot password attempts
 (acceptable range is 0 to 9, default is 2 as specified in the SafeKey Issuer Implementation
 Guide). The option limits the number of times a user is allowed to enter an incorrect SafeKey
 before the card is locked. Once the limit is reached, it will result in PARes status='N' to be
 returned to the merchant and the cardholder transaction may not be authorised by the
 merchant.
- Select A (Attempted) or N (Not approved) from the Unsupported device PARes status drop down list.

This option specifies the PARes to be used for unsupported devices.

Specify any Unsupported devices in the text box

This is for specifying browsers / devices for which authentication is not supported. It can also be used to quickly remove support if, for example, a security issue has been reported for a particular browser.

Separate multiple browsers / devices using commas (,). This setting is not case sensitive.

Upload Registration Files

Issuers > Upload Registration Files

The **Upload Registration Files** section is used to upload user registration or card registration messages for bulk registration or pre-registration of cardholders and users. Files can be uploaded for an individual Issuer or for an Issuer Group.



Info

Please see the **Users** section for information on registering and managing individual card and user accounts.

The main page shows a report on recently performed file uploads and their status.

You can schedule uploading a user or card registration file using the *Upload File* link and, view details using the *Job* number link, and schedule or cancel scheduled uploads using the *Edit* or *Cancel* links.



Note

This page will not be available for remote issuers.



Use the following fields and links for managing card uploads:

- The first available **Issuer** is displayed by default. If you are assigned to an issuer group, select All or an **Issuer** from the drop down list and click the adjacent **Refresh** button.
 - A list of the selected issuer's card files and their status is displayed.
- Select **All** or the type of registration message from the **Message Type** drop down list.
 - A list of the selected issuer's card files and their status is displayed.
- The default report is for the last 10 days, but you can specify an upload **Date** range for the search result by entering dates in the **From** and **To** fields using dd/mm/yyyy format and clicking the **Refresh** button.
- Click the Upload File link (which is only displayed when an Issuer is selected) to schedule a
 file upload job for the selected issuer.
 - The **Upload File** page is displayed.

The following details are displayed for each uploaded file for the selected issuer:

- Job Number this number is defined by the system and links to the Job Details page, which
 provides full details for the job and details of any error messages or warning conditions
- Issuer- name of the issuer that owns the card upload job
- Group name of the issuer group that owns the card upload job
- Message Type- the type of registration message either card registration or user registration
- File Name the name of the file uploaded
- Started the date and time the file upload started
- Finished the date and time the file upload finished
- Attempts the number of times the file upload was attempted
- Status the upload status shows the current status for data upload, which can be one of the following:
 - Completed
 - Completed with warnings
 - Processing
 - Failed
 - Scheduled



- Cancelled
- Edit link displayed for Scheduled uploads.

This links to the **Edit Upload Details** page for updating the scheduled date and time.

Cancel link - displayed for Scheduled uploads.

The administrator may cancel a scheduled upload, by clicking the *Cancel* link, but cannot cancel one which is in progress.

Upload File

Issuers > Upload Registration Files > Upload File

This page is used to enter the details of the card file you wish to upload and to schedule the upload date and time.

Use the following fields to upload a file:

- Choose the appropriate radio button and select an Issuer or an Issuer group from the drop down list.
- Select the type of registration message either Card Registration Or User Registration from the Message Type drop down list
- Click the Choose File / Browse... button adjacent to File name, to locate and select a registration file to upload.

The **No file chosen** message will then be replaced by the File name of the file to be uploaded.

• Enter **Schedule Date** and **Time** when you want the uploaded data to be processed.

Uploaded files scheduled to run in the past are set to run immediately.

You may also leave these fields blank if you wish to process the uploaded data as soon as possible.



Note

The data upload may take a long time to complete depending on the file size and line speed.



Job Details

Issuers > Upload Registration Files > Job Details

This page provides job details and a link to the registration request details via the Message ID link. It also provides information on any error conditions that prevented the upload from being processed successfully.

The fields displayed are:

- · Issuer name
- · Job number
- Message ID link to Request details
- Message type Card Registration or User Registration
- · Uploaded date and time
- · File name
- · When the upload was Started and Finished
- · Number of Attempts before the upload was finished
- · Status of the job
- Error message
- · Error Details
- Warnings

Edit Uploaded File

Issuers > Upload Registration Files > Edit Uploaded File

This page is used to update the scheduled processing time by specifying a new **Date** and **Time**.

Use the following fields to edit the file's scheduled upload:

- Issuer cannot be changed
- · Message type cannot be changed
- File name cannot be changed.



To upload a different file you must first cancel this upload using the **Cancel** link on the **Upload Registration File** page and then select the **Upload File** link.

- Date using dd/mm/yyyy format
- · Time using hh:mm format
- Apply button to save.

Registration Requests

Issuers > Registration Requests Search

The **Registration Requests** section is used to view requests for user registration or card registration messages

You can view registration request details using the **REG ID** link.



This page will not be available for remote issuers.

Use the following fields to find a registration request:

- Select from the Issuer drop down list to limit the results to the specified issuer OR
- Select from the **Group** drop down list to limit the results to the specified issuer group.
- The Request ID is the identifier entered in the registration message by the issuer. Enter all of the Request ID to search.
- The default Creation date range is for the last 10 days, but you can specify a date and time
 range (inclusive) in the From and To fields. The date and time format is dd/mm/yyyy HH:MM.
 Leave the time field empty if you do not wish to limit your search for a particular time of day.
- The default Completion date range is for the last 10 days, but you can specify a date and time range (inclusive) in the From and To fields. The date and time format is dd/mm/yyyy HH:MM. Leave the time field empty if you do not wish to limit your search for a particular time of day.
- Select the **Status** of the registration requests from the drop down list. The options are:
 - All (default)
 - Completed



- Completed with warnings
- Failed
- Processing
- Click Search to display registration request details

A list of the selected issuer or issuer group's registered requests and their progress is displayed.

Issuers > Registration Requests displays:

The following details are displayed for each registration request

- REG ID this number is defined by the system and links to the Request Details page, which
 provides full details for the request job and details of any error messages or warning
 conditions
- Issuer name of the issuer who owns the registration request
- Group name of the issuer group who owns the registration request
- Creation date the date the request was created
- Completion date the date the request was completed
- Request ID the Request ID associated with the request message
- Progress the status of the request; Completed, Completed with warnings, Failed or Processing.

Custom Pages

Issuers > Custom Pages

This section is used to upload, store and manage issuer branded pages. Branded pages are displayed during user enrolment and authentication processes.

Each issuer is assigned a separate space and a separate URL for their enrolment and authentication pages. This ensures that users will always be presented with their own issuer branded pages during the enrolment and authentication process.



Note

For ease of upload, you can zip the files first and upload them all at once.





Note

A set of sample custom pages, with *Any Bank* branding, is available in the ActiveAccess installation package: ActiveAccess/data/custompage/issuer

The naming convention for enrolment and authentication pages is as follows:

Page	Filename
J/Secure authentication	auth_jcb_index.xsl
SecureCode authentication	auth_spa_index.xsl
VbV authentication	auth_vbv_index.xsl
SafeKey authentication	auth_sk_index.xsl
ProtectBuy authentication	auth_dc_index.xsl
Cardholder enrolment home page	reg_index.xsl
Two-factor device authentication	dev_index.xsl

Other resources can be uploaded to the issuer space such as help files and graphics, etc.

To avoid any run time problems or security risk, only trained personnel can upload branded pages. As such, the option to upload custom pages is available at the **system administration** level only.

Issuer administrators have read-only access to this function, which can be used to download custom pages and branded material.



Note

The issuer system limits issuer space to a flat file structure (i.e. all files are created at the same directory level.

You can upload new pages using the **Upload File** link and **Delete** or **Download** pages.



Use the following fields and links for managing the custom pages:

Select an Issuer from the drop down list of available issuers and click the Refresh button.
 A list of the issuer's custom pages is displayed.

Or

- Select a Group from the drop down list of available groups and click the Refresh button.
 A list of the group's custom pages is displayed.
- Upload File link to upload a new file for the selected issuer or issuer group.
 The Upload File page is displayed.
- Download Selected link, used in conjunction with the Select checkbox to download one or multiple custom pages, for the selected issuer or issuer group.
- Delete Selected link, used in conjunction with the Select checkbox to delete one or multiple custom pages, for the selected issuer or issuer group

The following custom page details are displayed for the selected issuer:

- · File Name
- Size size of file in bytes
- Date date and time of upload
- Delete link to delete the page
- · Download link to download the page

Upload File

Issuers > Custom Pages > Upload File

This page is used to enter the name and location of the custom page you wish to upload

Use the following fields to upload a file:

- Select the **Issuer** for which you are uploading the custom pages from the drop down list
- Alternatively a **Group** can be selected from the drop down list. Selecting a group allows the administrator to roll out an update to all the issuers that are a direct member of the group or a member of a group owned by the selected group.



Note

Important: Care should be taken when rolling out an update to a group as it will overwrite the corresponding files on all the member issuers. Issuers may have configuration, graphics or text files specific to their own brand. You should not upload a generic package that overwrites these issuer branded pages through this facility without carefully checking first.

 Click the Choose File / Browse... button, adjacent to File name, to locate and select a custom page file to upload.

The **No file chosen** message will then be replaced with the name of the file to be uploaded

• Click the **Apply** button to upload the file.

File upload confirmation is displayed and if uploaded pages support rules, a link is provided to allow issuer to use rules.

Key Management

The system creates a number of cryptographic keys for each issuer in order to protect sensitive and confidential information. These keys are securely stored on a hardware security module (HSM).

This section lists keys used by the issuer and the history of any changes. The list of keys is retrieved from the local HSM accessible by the MIA instance, which is currently being accessed by the user. It is the responsibility of the system administrator to keep all HSM instances synchronised at all times.

This section also allows the administrator to retire the current Signing RSA or CAVV validation keys and replace them with the ones that have been created by the HSM administrator using vendor or third party utilities. Card and general encryption keys cannot be retired and replaced using this interface as a process to decrypt previously encrypted fields with an old key and reencrypt them using a new key is required. GPayments has developed a PCIDSS Key Retiring Utility for this purpose.

Use the following fields and links for viewing keys:

• The first available **Issuer** is displayed by default. You can select a different **Issuer** from the drop down list of available issuers and click the adjacent **Refresh** button.

A list of the selected issuer's current keys is displayed.



- If the required Issuer or an Issuer Group is not displayed, select it from the appropriate drop down list.
- You can select the General keys radio button to view the list of the general encryption keys that are used to encrypt general critical settings and configuration parameters.

This page displays for each key;

- Alias link to the Key Details page
- · Delete. link to allow unused keys to be deleted

The following key details are displayed for the selected issuer or issuer group:

- Provider
- Algorithm
- · Type
- · Alias
- · Creation time date and time of upload
- Status

New Key

Issuers > Key Management > New Key

The **New Key** section is used to retire the current Signing RSA or CAVV validation keys and replace them with the ones that have already been created by the HSM administrator, using vendor or third party utilities.

Alternatively, the **PCIDSS Key Retiring Utility** provided in the ActiveAccess installation package allows for the automatic retiring of old keys and re-generation of new ones. Refer to the document *AA85 – PCIDSS Key Retiring Utility* for further details.

Use the following fields and links for generation of new keys:

- Issuer or Group
- Type
- Provider

Note

SecureCode HMAC generation key is only available for the Mastercard provider.

- Algorithm is displayed and cannot be changed.
- Old alias is displayed and cannot be changed.
- Old key size is displayed and cannot be changed.
- New alias status is displayed and cannot be changed.
- New alias.
- If the key Type is Signing RSA Key, select a Key size from the drop down list. Defaults to 1024.

Key Details

Issuers > Key Management > Key Details

The **Key Details** section is used to list the history of the changes for the specified key.

The following key details are displayed for the selected alias:

- · Alias
- Algorithm
- · Creation time date and time of upload
- Expiration time date and time the key will expire
- · Status
- Active the key is being used by the system
- Inactive the key needs to be activated through a pre-defined process
- Expired the key has been retired and will no longer be used by the system.
 - Delete link to allow unused keys to be deleted.

Use the following for generating new keys:

New Key link



Rules





System Administrators and Issuer Addministrators

Access can also be granted to Business Admin and Helpdesk users at System Admin level.

Whether these users have read only or full access is determined by their Admins settings.



This section is used to set up and manage business rules and the sequence in which they are applied for Issuers that have rules functionality enabled.

The rules that can be applied are determined by whether the authentication server is remote or local. Authentication exemption rules and settings can be applied for local and remote authentication servers and registration enforcement rules can be applied for local authentication servers.

You can set up and maintain Issuer authentication exemption business rule settings for the local or remote ACS (CAAS). These business rules are configurable settings, which provide Issuers with control over the customer process during 3-D Secure transactions as described in the table below. Rules can be configured using 3-D Secure transaction parameters such as Transaction Amount, Merchant ID, Merchant Name, Acquirer BIN or Merchant Country. The sequence in which the rules are applied can be defined by setting Priority values for each rule.

Rule Management has the following tabs:

- Registration allows two pre-defined rules to be used for checking authentication requests
 processed or transparently authenticated by a local authentication server. The Rules are:
 - Amount Threshold
 - Merchant Blacklist

These rules can be enabled, disabled and have their order of priority changed.

- Authentication
 - Soft Launch List
 - Merchant Whitelist
 - Merchant Watchlist



- Location Watchlist
- Domestic & International Transaction Amount Threshold

These rules can be enabled, disabled and have their order of priority changed.

 Settings - used to set up transaction number and / or amount thresholds to be used for determining if authentication is to be initiated or bypassed. Also used to define the authentication response (PARes) to be sent for any transactions where authentication is bypassed.

Rules can be set to apply by default and not just for exceptions.

Registration

Rules > Rule Management > Registration

This section is used to set up and maintain settings for business rules that force customer registration. These business rules are configurable settings which provide issuers control over the customer process during 3-D Secure transactions.

These rules can be configured using 3-D Secure transaction parameters such as the Transaction Amount, Merchant ID, Merchant Name, Acquirer BIN or Merchant Country.

The sequence in which the rules are applied can be changed by setting a Priority for each rule.

Rule	Description	Parameters	Behaviour	
Amount Threshold	A threshold that determines if pre- registered cardholders are to be forced to opt- in to Activation During Shopping.	Transaction amount (AUD or converted to AUD)	Greater than or equal to threshold: No Opt-Out option available on the ADS page, only cancel	Less than threshold: Opt-Out option will be available on the ADS page Opt-Out - sets transaction status to 'A'



Rule	Description	Parameters	Behaviour	
Merchant Blacklist	Merchant criteria that initiate the authentication.	Merchant Merchant ID Merchant name Acquirer BIN Merchant country	On list: No Opt-Out option available on the ADS page, only cancel Cancel - sets Transaction Status to 'N'.	Not on list: Opt-Out option will be available on the ADS page Opt-Out - sets transaction status to 'A'

Use the following fields to view / edit the Rules:

- If the required Issuer or an Issuer Group is not displayed, select it from the appropriate drop down list.
- · Click the **Refresh** button.



The following fields and links are displayed for each rule:

- Select checkbox to be used in conjunction with the **Enable** and **Disable** buttons.
- Rule Name link to the Rule Details page
- Priority sequence in which the rules are applied, can be changed by clicking Move Up or Move Down
- Status Enabled, Disabled or Not Configured

Use the following steps to enable or disable a rule:

- Choose one or more rules by clicking the Select checkbox adjacent to the Rule Name
- Click the Enable or Disable button as appropriate.

A confirmation message will be displayed.

Amount Threshold

Rules > Rule Management > Registration > Amount Threshold



The Amount Threshold rule allows an issuer to encourage pre-registered cardholders to register for 3-D Secure based on the value of the transaction.

When this rule is enabled, the cardholder is pre-registered and when they purchase from a 3-D Secure enabled merchant, if the value of the transaction is equal to or exceeds the threshold amount, the cardholder will be presented with the standard ADS page but will not be given the opportunity to Opt-Out. Instead, the cardholder will only be able to Cancel the transaction and the authentication result that will be returned to the merchant will be, **N**.

If the transaction is in a currency other than the one selected for the rule, a conversion will be made to convert the value of the transaction into the currency of the rule, so that the converted value can be compared with the threshold to determine the appropriate action.



If currency conversion is not available, the default will be for registration to be enforced.

The following fields and links are displayed:

- Select checkbox for selecting one or more sets of rules.
- BIN links to the Edit Amount Threshold page.
- **Delete** button used in conjunction with selected rules.
- Links for Manage Exchange Rates and Add.

To manually create currency exchange values:

Click the Manage Exchange Rates link.

The **Manage Exchange Rate** page is displayed.

To add Amount Threshold rules:

Rules > Force Registration > Amount Threshold > Add

· Click the Add link.

The **Add Amount Threshold** page is displayed.



The Add link is disabled when a rule has been set for All BINs of the selected issuer.



To delete a rule:

Select the checkbox adjacent to the BIN and click the **Delete** button.
 Confirmation of the deletion is displayed.

To set transaction amount thresholds:

- Issuer name is displayed and cannot be changed.
- Select the **BIN** to be used for the threshold from the drop down list.
- Enter an Amount for the threshold.
- Select the default currency to be used for the domestic threshold from the Currency drop down list.
- · Click the **Apply** button to save changes.

A confirmation message will be displayed.

Merchant Blacklist

The Merchant Blacklist rule allows an issuer to encourage pre-registered cardholders to register for 3-D Secure based on merchant related transaction parameters. If the attributes of the business rule match the merchant related transaction parameters, the cardholder will not be allowed to Opt-Out of the Activation During Shopping process and will only be able to cancel the transaction. Issuers can use any combination of Merchant ID, Merchant Name, Acquirer BIN and Merchant Country to create a rule to encourage cardholders to register.

If the cardholder cancels the transaction, the authentication result returned to the merchant will be an **N**.

When checking the Merchant details from a transaction against the Merchant Blacklist, the Merchant is considered to be a match if any of the Merchant details (Merchant ID, Merchant name, Acquirer BIN or Merchant country) from the PAReq match the corresponding details on the Blacklist.

You can set a maximum number of rules for the Merchant Blacklist, import a file of Merchant details or add individual Merchant details to the list, delete Merchant details and edit Merchant details.



Merchant Blacklist Details

Rules > Rule Management > Registration > Merchant Blacklist > Merchant Blacklist Search Results

You can add individual Merchant details or import a file of Merchant details to the list or select any Merchant details to delete or edit.

The following fields and links are displayed:

- Maximum no of rules in blacklist (default is 50)
- Select checkbox for selecting one or more sets of Merchant details
- Delete button used in conjunction with selected Merchant details
- Merchant ID, Merchant Name, Acquirer BIN and Merchant Country links to the Edit Merchant Blacklist page
- Links for Add and Import

To change the number of rules permitted in the blacklist:

- Enter the Maximum no of rules in blacklist.
- Click the Apply button.

To add individual Merchant details:

Click the Add link.

The **Add Merchant Blacklist** page is displayed.

To import a file of Merchant details:

Click the Import link.

The **Import Merchant Blacklist** page is displayed.



Note

The supported file formats for uploading rule configurations are .csv and .xml. The following is an example of a sample .xml file:

<MerchantBlacklist>
 <Merchant>



To delete Merchant details:

Select the checkbox adjacent to the Merchant ID and click the **Delete** button.
 Confirmation of the deletion is displayed.

Edit Merchant Blacklist

Rules > Rule Management > Registration > Merchant Blacklist > Edit Merchant Blacklist

To edit the Merchant Blacklist:

- Issuer name is displayed and cannot be changed.
- · Edit any of the Merchant fields:
 - Merchant ID
 - Merchant Name
 - Acquirer BIN
 - Merchant Country.
- Click the **Apply** button. A confirmation message will be displayed.

When checking whether a transaction matches the Merchant Blacklist, the system will compare the Merchant ID, Merchant Name, Acquirer BIN and Merchant Country from the PAReq, with the values entered.

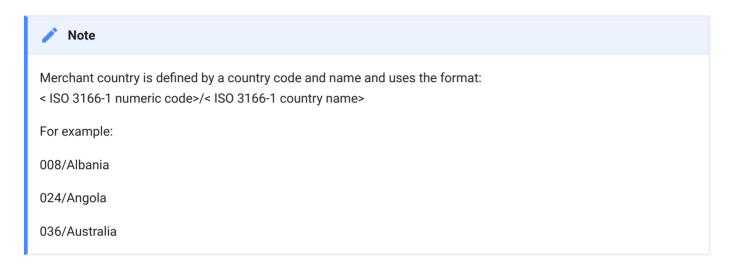
Click the Back button to return to the Merchant Blacklist.

Import Merchant Blacklist

Rules > Rule Management > Registration > Merchant Blacklist > Import Merchant Blacklist



This page is used to import a file of merchant Blacklist rules to add to the Merchant Blacklist. The format of the file should be CSV, with each record incorporating values for any of the required Merchant ID, Merchant Name, Acquirer BIN and Merchant Country fields necessary to define the rule.



To import a file of merchant watchlist rules:

- Issuer name is displayed and cannot be changed.
- Click the Choose File / Browse button adjacent to File name, to locate and select a file to import.

The **No file chosen** message will be replaced with the name of the file to be imported.



A maximum of 1000 records can be imported at one time.

· Click the **Apply** button.

A confirmation message will be displayed.

Authentication

Rules > Rule Management > Authentication



Rule	Description	Parameters	If on list	If not on list
Soft Launch List	Primary Account Numbers that will not be allowed to bypass the authentication procedure.	Cardholder: Primary Account Number	Other business rules applied in the specified sequence.	Cardholder transparently authenticated. Transaction Status set to 'Y' or 'A', as configured under the Settings tab.
Merchant Whitelist	Merchant criteria that allow the authentication procedure to be bypassed.	Merchant: Merchant ID Merchant name Acquirer BIN Merchant country	Cardholder transparently authenticated. Transaction Status set to 'Y' or 'A', as configured under the Settings tab.	Other business rules applied in the specified sequence.
Merchant Watchlist	Merchant criteria that initiate the authentication procedure.	Merchant: Merchant ID Merchant name Acquirer BIN Merchant country	Initiates authentication procedure.	Other business rules applied in the specified sequence.
Location Watchlist	Merchant countries that initiate the authentication procedure	Merchant country: Country / Currency code	Initiates authentication procedure.	Other business rules applied in the specified sequence.
Domestic & International Transaction Amount Threshold	A threshold that determines if the authentication procedure is to be initiated or bypassed. Domestic threshold used for the set default transaction purchase currency, otherwise, International threshold used.	Transaction amount	Greater than or equal to threshold: Initiates authentication procedure.	Less than threshold or currency not in file: Cardholder transparently authenticated. Transaction Status set to 'Y' or 'A', as configured under the Settings tab.



Rule	Description	Parameters	If on list	If not on list
Stand-In Transaction	A threshold that determines if the authentication procedure is to be bypassed when the remote authentication server (CAAS) cannot be contacted or is not responding at the Verify Registration (first message to CAAS) stage.	Transaction amount (AUD or converted to AUD)	Greater than or equal to Stand-in threshold: Unable to authenticate Transaction Status set to 'U'	Less than Stand-In threshold: Cardholder transparently authenticated. Transaction Status set to 'Y' or 'A', as configured under the Settings tab.

Click the Rules tab, if it is not already selected.

Use the following fields to view / edit the Rules:

- If the required Issuer or an Issuer Group is not displayed, select it from the appropriate drop down list.
- · Click the Refresh button.



These fields are not displayed if the user is assigned to a single issuer.

The following fields and links are displayed for each rule:

- Select checkbox to be used in conjunction with the **Enable** and **Disable** buttons.
- Rule Name link to the Rule Details page
- Once two or more rules are enabled, the **Priority** sequence in which the rules are applied can
 be changed by clicking **Move Up** or **Move Down**. Once Priority is customised, click **Reset to Default**, to reset the sequence in which the rules are applied back to the system default.
- Status Enabled, Disabled or Not Configured

To enable or disable a rule:

Choose one or more rules by clicking the Select checkbox adjacent to the Rule Name



Click the *Enable* or *Disable* button as appropriate.
 A confirmation message will be displayed.

Soft Launch List Rule

If the cardholder's Primary Account Number is on the Soft Launch List, the authentication procedure will not be bypassed, and the other business rules will be applied in the specified sequence.



Warning

If the cardholder is not on the list, the cardholder will be considered to be transparently authenticated and transaction status will be set to **Y** or **A**, as configured under the **Settings** tab.

You can search for PANs in the Soft Launch List, import a file of PANs or add an individual PAN to the list and edit a PAN.

The first page in this section is Search Soft Launch List.

Search Soft Launch List

Rules > Rule Management > Soft Launch List > Search Soft Launch List

This page displays:

- Issuer name = cannot be changed.
- Search button to search for cardholder PANs already in the Soft Launch List.
- Import button to import a list of PANs to add to the list
- Add button to add an individual PAN to the list



Note

The supported file formats for uploading rule configurations are .csv and .xml.

To search for a cardholder PAN:

 Enter a Primary Account Number and click the Search button. Leave the field blank to search for all PANs.

The **Soft Launch List** page is displayed.



Soft Launch List

Rules > Rule Management > Authentication > Soft Launch List > Soft Launch List Search Results

PANs are listed according to the search criteria you entered on the **Search Soft Launch List** page. You can add an individual PAN or import a list of PANs to the list or select any PAN to delete or edit it.

The following fields and links are displayed:

- Select checkbox for selecting the Primary Account Number in conjunction with the Delete button
- Primary Account Number link to the Edit Soft Launch List page
- Links for Add and Import

To edit a PAN:

· Click the Primary Account Number link.

The **Edit Soft Launch List** page is displayed.

To add an individual PAN:

· Click the Add link.

The **Add Soft Launch List** page is displayed.

To import a file of PANs:

• Click the **Import** link.

The **Import Soft Launch List** page is displayed.

To delete a PAN:

• Select the checkbox adjacent to the Primary Account Number and click the **Delete** button.

Edit Soft Launch List

Rules > Rule Management > Authentication > Soft Launch List > Search Soft Launch List > Edit Soft Launch List



To edit the Soft Launch List:

- Issuer name is displayed and cannot be changed.
- Edit the **Primary Account Number**.
- Click the Apply button.

A confirmation message will be displayed.

· Click the **Back** button to return to the Soft Launch List Search Results.

Add to Soft Launch List

Rules > Rule Management > Authentication > Soft Launch List > Add Soft Launch List

This page is used to add individual PANs to the Soft Launch List.

To add to the Soft Launch List:

- Issuer name is displayed and cannot be changed.
- Enter a **Primary Account Number**.
- · Click the Apply button.

A confirmation message will be displayed.

Import Soft Launch List

Rules > Rule Management > Authentication > Soft Launch List > Import Soft Launch List

This page is used to import a file of cardholder PANs to add to the Soft Launch List. The format of the file should be CSV, with each record incorporating a PAN value.

To import a file of PANs:

- Issuer name is displayed and cannot be changed.
- Click the Choose File / Browse... button adjacent to File name, to locate and select a file to import.

The **No file chosen** message will be replaced with the name of the file to be imported.



A maximum of 1000 records can be imported at one time.

Click the Apply button.



A confirmation message will be displayed.

Merchant Whitelist Rule

If any of the Merchant details are on the Merchant Whitelist, the authentication procedure will be bypassed and the other business rules will be applied in the specified sequence.



If any of the merchant's details are on the list, the cardholder will be considered to be transparently authenticated and transaction status will set to **Y** or **A**, as configured under the **Settings** tab.

When checking the Merchant details from a transaction against the Merchant Whitelist, the Merchant is considered to be a match if any of the Merchant details (Merchant ID, Merchant name, Acquirer BIN or Merchant country) from the PAReq match the corresponding details on the Whitelist.

You can search for Merchant details in the Merchant Whitelist, import a file of merchant details or add Merchant details to the list and edit Merchant details.

The first page in this section is **Search Merchant Whitelist**.

Search Merchant Whitelist

Rules > Rule Management > Merchant Whitelist > Search Merchant Whitelist

This page displays:

- **Search** button to search for Merchant details already in the Merchant Whitelist.
- Import button to import a file of Merchant details to add to the list



The supported file formats for uploading rule configurations are .csv and .xml. The following is an example of a sample .xml file:



Add button to add individual Merchant details to the list.

To search for a Merchant:

- Issuer name is displayed and cannot be changed.
- Enter Merchant details as follows, or leave them blank to display all Merchants on the Whitelist:
 - Enter a Merchant ID
 - Enter a Merchant name
 - Enter an Acquirer BIN
 - Select a **Merchant country** from the drop down list. Default is All.
- · Click the Search button.

The **Merchant Whitelist** page is displayed.

Merchant Whitelist

Rules > Rule Management > Authentication > Merchant Whitelist > Merchant Whitelist Search Results

Merchant details are listed according to the search criteria you entered on the **Search Merchant Whitelist** page. You can add an individual Merchant or import a file of Merchants to the list or select any Merchant to delete or edit it.

The following fields and links are displayed:

- Select checkbox for selecting one or more sets of Merchant details
- Delete button used in conjunction with selected Merchant details
- Merchant Id, Merchant Name, Acquirer BIN and Merchant Country links to the Edit Merchant Whitelist page
- · Links for Add and Import



To add individual Merchant details:

· Click the Add link.

The **Add Merchant Whitelist** page is displayed.

To import a file of Merchant details:

· Click the Import link.

The **Import Merchant Whitelist** page is displayed.

To delete Merchant details:

Select the checkbox adjacent to the Merchant ID and click the **Delete** button.
 Confirmation of the deletion is displayed.

Edit Merchant Whitelist

Rules > Rule Management > Authentication > Merchant Whitelist > Edit Merchant Whitelist

To edit the Merchant Whitelist:

- Issuer name is displayed and cannot be changed.
- · Edit any of the Merchant fields:
 - Merchant ID
 - Merchant Name
 - Acquirer BIN
 - Merchant Country.
- · Click the **Apply** button.

A confirmation message will be displayed.

· Click the **Back** button to return to the Merchant Whitelist Search Results.

Add to Merchant Whitelist

Rules > Rule Management > Authentication > Merchant Whitelist > Add to Merchant Whitelist

This page is used to add Merchant details to the Merchant Whitelist.



When checking whether a transaction matches the Merchant Whitelist, the system will compare the Merchant Id, Merchant Name, Acquirer BIN and Merchant Country from the PAReq, with the values entered.

To add to the Merchant Whitelist:

- Issuer name is displayed and cannot be changed.
- Enter a value into any of the Merchant fields:
 - Merchant Id
 - Merchant Name
 - Acquirer BIN
 - Merchant Country select from the drop down list.
- · Click the **Apply** button.

A confirmation message will be displayed.

Click the Back button to return to the Merchant Whitelist Search Results.

Import Merchant Whitelist

Rules > Rule Management > Authentication > Merchant Whitelist > Import Merchant Whitelist

This page is used to import a file of merchant whitelist rules to add to the Merchant Whitelist. The format of the file should be CSV, with each record incorporating values for any of the required Merchant Id, Merchant Name, Acquirer BIN and Merchant Country fields necessary to define the rule.



Note

Merchant country is defined by a country code and name and uses the format:

< ISO 3166-1 numeric code > / < ISO 3166-1 country name>

For example:

008/Albania

024/Angola

036/Australia



To import a file of merchant whitelist rules:

- Issuer name is displayed and cannot be changed.
- Click the Choose File / Browse... button adjacent to File name, to locate and select a file to import.

The **No file chosen** message will be replaced with the name of the file to be imported.



A maximum of 1000 records can be imported at one time.

· Click the Apply button.

A confirmation message will be displayed.

Merchant Watchlist

If any of the Merchant's details are on the Merchant Watchlist, the authentication procedure will be initiated. If the Merchant's details are not on the list, the other business rules will be applied in the specified sequence.



If any of the merchant details are on the list, the authentication procedure will be initiated.

When checking the Merchant details from a transaction against the Merchant Watchlist, the Merchant is considered to be a match if any of the Merchant details (Merchant ID, Merchant name, Acquirer BIN or Merchant country) from the PAReq match the corresponding details on the Watchlist.

You can search for Merchant details in the Merchant Watchlist, import a file of Merchant details or add individual Merchant details to the list and edit Merchant details.

The first page in this section is **Search Merchant Watchlist**.

Search Merchant Watchlist

Rules > Rule Management > Authentication > Merchant Watchlist > Search Merchant Watchlist



This page displays:

- · Search button to search for Merchant details already in the Merchant Watchlist.
- Import button to import a file of Merchant details to add to the list



The supported file formats for uploading rule configurations are .csv and .xml

· Add button to add individual Merchant details to the list

To search for a Merchant:

- Issuer name is displayed and cannot be changed.
- Enter Merchant details as follows, or leave them blank to display all Merchants on the Watchlist:
 - Enter a Merchant ID
 - Enter a Merchant name
 - Enter an Acquirer BIN
 - Select a Merchant country from the drop down list. Default is All.
- · Click the Search button.

The **Merchant Watchlist** page is displayed.

Merchant Watchlist Search Results

Rules > Rule Management > Authentication > Merchant Watchlist > Merchant Watchlist Search Results

Merchant details are listed according to the search criteria you entered on the **Search Merchant Watchlist** page. You can add an individual Merchant or import a file of Merchants to the list or select any Merchant to delete or edit it.

The following fields and links are displayed:

- Select checkbox for selecting one or more sets of Merchant details
- Delete button used in conjunction with selected Merchant details
- Merchant Id, Merchant Name, Acquirer BIN and Merchant Country links to the Edit Merchant Watchlist page



Links for Add and Import

To add individual Merchant details:

· Click the Add link.

The **Add Merchant Watchlist** page is displayed.

To import a file of Merchant details:

Click the Import link.

The **Import Merchant Watchlist** page is displayed.



The supported file formats for uploading rule configurations are .csv and .xml

To delete Merchant details:

Select the checkbox adjacent to the Merchant ID and click the **Delete** button.
 Confirmation of the deletion is displayed.

Edit Merchant Watchlist

Rules > Rule Management > Authentication > Merchant Watchlist > Edit Merchant Watchlist

To edit the Merchant Watchlist:

- Issuer name is displayed and cannot be changed.
- · Edit any of the Merchant fields:
 - Merchant Id
 - Merchant Name
 - Acquirer BIN
 - Merchant Country.
- Click the Apply button.

A confirmation message will be displayed.

· Click the Back button to return to the Merchant Watchlist Search Results.



Add to Merchant Watchlist

Rules > Rule Management > Authentication > Merchant Watchlist > Add to Merchant Watchlist

This page is used to add Merchant details to the Merchant Watchlist.

A new Merchant Watchlist rule can be created by entering a value in at least one of the fields on the page:

When checking whether a transaction matches the Merchant Watchlist, the system will compare the Merchant Id, Merchant Name, Acquirer BIN and Merchant Country from the PAReq, with the values entered.

To add to the Merchant Watchlist:

- Issuer name is displayed and cannot be changed.
- Enter a value into any of the Merchant fields:
 - Merchant ID
 - Merchant Name
 - Acquirer BIN
 - Merchant Country select from the drop down list.
- · Click the **Apply** button.

A confirmation message will be displayed.

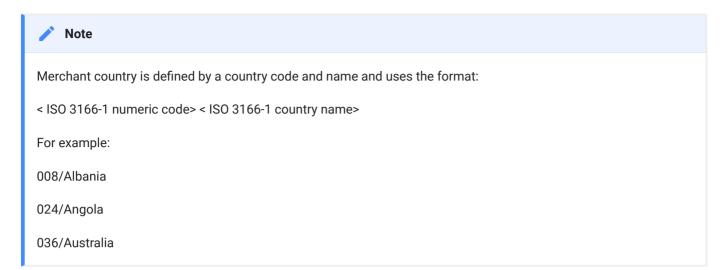
Click the Back button to return to the Merchant Watchlist Search Results.

Import Merchant Watchlist

Rules > Rule Management > Authentication > Merchant Watchlist > Import Merchant Watchlist

This page is used to import a file of merchant watchlist rules to add to the Merchant Watchlist. The format of the file should be CSV, with each record incorporating values for any of the required Merchant Id, Merchant Name, Acquirer BIN and Merchant Country fields necessary to define the rule.





To import a file of merchant watchlist rules:

- Issuer name is displayed and cannot be changed.
- Click the Choose File / Browse button to locate and select the File name.

The **No file chosen** message will be replaced with the name of the file to be imported.



A maximum of 1000 records can be imported at one time.

Click the Apply button.

A confirmation message will be displayed.

Location Watchlist

If the merchant's country is on the Location Watchlist, the authentication procedure will be initiated. If the merchant's country is not on the list, the remaining business rules will be applied.



If the merchant's country is not on the list, the cardholder will be considered to be transparently authenticated and transaction status will set to **Y** or **A**, as configured under the **Settings** tab.

You can search for Locations, import a file of Locations or add an individual Location to the list.

The first page in this section is **Search Location Watchlist**.



Search Location Watchlist

Rules > Rule Management > Authentication > Location Watchlist > Search Location Watchlist

This page displays:

- Search button to search for countries already in the Location Watchlist.
- · Import button to import a file of countries to add to the list



The supported file formats for uploading rule configurations are .csv and .xml.

· Add button to add individual countries to the list

To search for a Location:

- Issuer name is displayed and cannot be changed.
- Select a Merchant country from the drop down list. Default is All.
- · Click the Search button.

The **Location Watchlist** page is displayed.

Location Watchlist Search Results

Rules > Rule Management > Authentication > Location Watchlist > Location Watchlist Search Results

Merchant countries are listed according to the search criteria you entered on the **Search Location Watchlist** page. You can add an individual Merchant country or import a file of Merchant countries to the list or select any Merchant country to delete or edit it.

The following fields and links are displayed:

- Select checkbox for selecting one or more Merchant Countries
- Delete button used in conjunction with selected Merchant Countries
- Merchant Country link to the Edit Location Watchlist page
- Links for Add and Import



To add individual Merchant countries:

· Click the Add link.

The **Add Location Watchlist** page is displayed.

To import a file of Merchant countries:

• Click the **Import** link.

The **Import Location Watchlist** page is displayed.



Note

The supported file formats for uploading rule configurations are .csv and .xml.

To delete Merchant countries:

Select the checkbox adjacent to the Merchant Country and click the **Delete** button.
 Confirmation of the deletion is displayed.

Edit Location Watchlist

Rules > Rule Management > Authentication > Location Watchlist > Edit Location Watchlist

Editing a Merchant country replaces the selected country with the new country selected.

To edit the Location Watchlist:

- Issuer name is displayed and cannot be changed.
- Edit **Merchant country** by selecting a different country from the drop down list.
- Click the Apply button.

A confirmation message will be displayed.

Click the Back button to return to the Location Watchlist Search Results.

Add to Location Watchlist

Rules > Rule Management > Authentication > Location Watchlist > Add to Location Watchlist

This page is used to add individual Merchant countries to the Location Watchlist.

When checking whether a transaction matches the Merchant Watchlist, the system will compare the Merchant Country from the PAReq, with the Merchant countries entered on the watchlist.



To add to the Location Watchlist:

- Issuer name is displayed and cannot be changed.
- Select a Merchant Country from the drop down list.
- Click the Apply button.

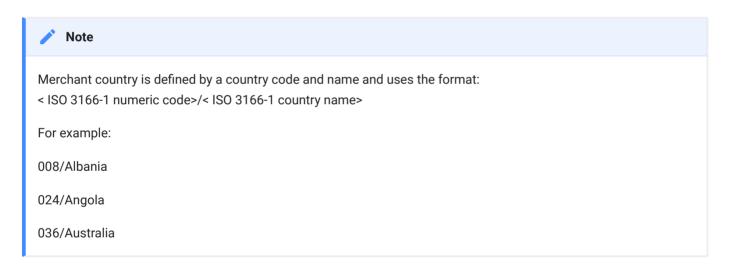
A confirmation message will be displayed.

· Click the **Back** button to return to the Merchant Watchlist Search Results.

Import Location Watchlist

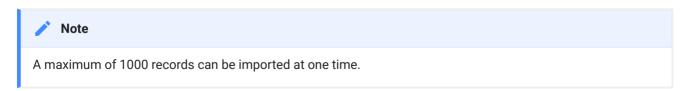
Rules > Rule Management > Authentication > Location Watchlist > Import Location Watchlist

This page is used to import a file of merchant countries to add to the Location Watchlist. The format of the file should be CSV, with each record incorporating a Merchant country value.



To import a file of Location watchlist rules:

- Issuer name is displayed and cannot be changed.
- Click the Choose File / Browse button to locate and select the File name.



· Click the Apply button.

A confirmation message will be displayed.



Domestic & International Transaction Amount Threshold

Rules > Rule Management > Authentication > Domestic & International Transaction Amount Threshold

The domestic and international transaction thresholds determine if the authentication procedure is to be initiated or bypassed.

The Domestic threshold is used when the transaction purchase currency is the selected Default Currency; otherwise, the International threshold is used.

If the transaction amount is less than the defined transaction amount threshold, the cardholder will be transparently authenticated.

If the transaction amount is greater than or equal to the threshold, the authentication procedure will be initiated.



If the transaction currency is not in the currency file, the default will be for the Issuer ACS to pass the PARes back to the merchant indicating Cardholder Transparently Authenticated.

The following fields and links are displayed:

- Select checkbox for selecting one or more sets of rules.
- BIN links to the Edit Domestic & International Transaction Amount Threshold page.
- **Delete** button used in conjunction with selected rules.
- Links for Manage Exchange Rates and Add.

To manually create currency exchange values:

Click the Manage Exchange Rates link.

The **Manage Exchange Rate** page is displayed.

To add Domestic & International Transaction Amount Threshold rules:

Rules > Rule Management > Authentication > Authentication > Domestic & International Transaction Amount Threshold > Add

· Click the Add link.



The Add Domestic & International Transaction Amount Threshold page is displayed.



The Add link is disabled when a rule has been set for All BINs of the selected issuer.

To delete a rule:

Select the checkbox adjacent to the BIN and click the **Delete** button.

Confirmation of the deletion is displayed.

To set Domestic & International transaction amount thresholds:

- Issuer name is displayed and cannot be changed.
- Select the **BIN** to be used for the threshold from the drop down list.
- Enter a **Domestic amount** for the threshold.
- Enter an International amount for the threshold.
- Select the currency to be used for the domestic threshold from the **Default currency** drop down list.
- · Click the **Apply** button to save changes.

A confirmation message will be displayed.

Manage Exchange Rates

Rules > Rule Management > Authentication > Domestic & International Transaction Amount Threshold > Manage Exchange Rates

Currency exchange values can be manually defined for each issuer to set customised exchange rates or for rates not available on the automated list. These rates take precedence over the general rates that are downloaded from external resources or manually defined by the system administrator in System Management > Exchange Configuration.

The following fields and links are displayed:

- Select checkbox for selecting one or more defined exchange rates.
- Base Currency links to the Edit Exchange Rate page.
- **Delete** button used in conjunction with selected exchange rates.
- · Add link to add an exchange rate.



To manually create currency exchange values:

Rules > Rule Management > Authentication > Domestic & International Transaction Amount Threshold > Manage Exchange Rates > Add

· Click the Add link.

The **Add Exchange Rate** page is displayed.

To delete a defined exchange rate:

Select the checkbox adjacent to the Base Currency and click the **Delete** button.
 Confirmation of the deletion is displayed.

To manually create currency exchange values:

- Issuer name is displayed and cannot be changed.
- Select the Base currency and Target currency to be used for the currency exchange rate from the drop down list.
- Enter a Rate for the currency exchange.
- Click the Apply button to save changes.

A confirmation message will be displayed.

Stand-In Transaction Threshold

Rules > Authentication Exemption > Stand-In Transaction Threshold

The Stand-In Transaction Threshold rule is applied if the remote authentication server (CAAS) cannot be contacted or is not responding at the Verify Registration (first message to CAAS) stage.

However, if the cardholder is in the middle of the authentication process and has commenced selection and the CAAS cannot be contacted or is not responding then the Issuer ACS will be unable to authenticate the transaction and Transaction Status will be set to 'U' (Unable to authenticate).



Note

If the transaction amount (AUD or converted to AUD) is less than the Stand-In threshold, the Issuer ACS will pass the PARes back to the merchant indicating Cardholder Transparently Authenticated.



The following fields and links are displayed:

- Select checkbox for selecting one or more sets of rules.
- BIN links to the Edit Stand-In Transaction Threshold page.
- **Delete** button used in conjunction with selected rules.
- Links for Manage Exchange Rates and Add.

To manually create currency exchange values:

Click the Manage Exchange Rates link.

The **Manage Exchange Rate** page is displayed.

To add Stand-In Transaction Threshold rules:

Rules > Authentication Exemption > Stand-In Transaction Threshold > Add

· Click the Add link.

The **Add Stand-In Transaction Threshold** page is displayed.



The Add link is disabled when a rule has been set for All BINs of the selected

issuer.

To delete a rule:

• Select the checkbox adjacent to the BIN and click the **Delete** button.

Confirmation of the deletion is displayed.

To set Stand-In Transaction thresholds:

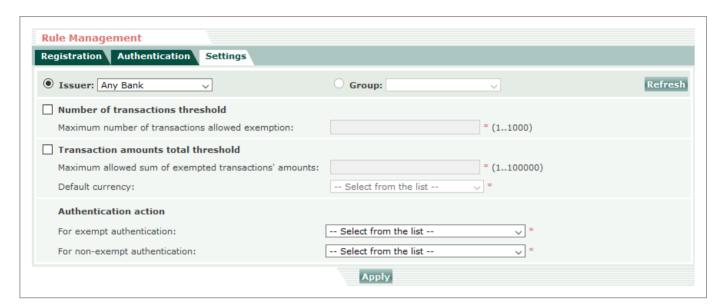
- Issuer name is displayed and cannot be changed.
- Select the **BIN** to be used for the threshold from the drop down list.
- Enter an **Amount** for the threshold.
- Select the default currency to be used for the threshold from the **Currency** drop down list.
- Click the Apply button to save changes.

A confirmation message will be displayed.



Settings

Rules > Rule Management > Settings



This section is used to set thresholds, by issuer or issuer group, for the number of transactions and the transaction amounts total (which determine if the authentication procedure is to be initiated or bypassed). It is also used to define the authentication response (PARes) and transaction status for cardholders when authentication is bypassed.

If one threshold is specified - if the **number of transactions or** the **transaction amounts total** is less than the specified threshold, the cardholder will be transparently authenticated.

If both thresholds are specified, if the **number of transactions and** the **transaction amounts total** are less than the specified thresholds, the cardholder will be transparently authenticated.

If the **number of transactions or** the **transaction amounts** total is greater than or equal to the specified thresholds, the authentication procedure will be initiated.

Use the following fields to view / edit the Settings:

- If the required Issuer or an Issuer Group is not displayed, select it from the appropriate drop down list.
- · Click the Refresh button.



Note

These fields are not displayed if the user is assigned to a single issuer.

- To set a Number of transactions threshold, select the checkbox and enter a number from 1 to 1000 (inclusive) in Maximum number of transactions allowed exemption. This is the number of times a cardholder can be exempt, after which time they will be required to be authenticated. Once authenticated successfully, the transaction count is reset to 0.
- To set a Transaction amounts total threshold, select the checkbox and enter an amount from 1 to 100000 (inclusive) in Maximum allowed sum of exempted transactions amounts.
 Once the cardholder is authenticated successfully, the transaction amounts total is reset to 0.
- Select the **Default** currency, which will apply to the transaction amounts total, from the drop down list.
- To select an **Authentication action** for exempt and non-exempt authentication, select from the appropriate drop down lists for the selected issuer or issuer group:
- For exempt authentication the options are:

Set PARes='A' (Attempted)

Set PARes='Y' (Approved)

• For non-exempt authentication - the options are:

Set PARes='N' (Not approved)

Show authentication page

Click the Apply button to save changes.



Admin Users





System Administrators and Member Administrators

System Management | Security | Servers | Utilities | Issuers | Rules | Admins | Cards | Transactions | Reports | Audit Log

This section is used to set up and manage administrative users. A pre-defined access level group assigned to the username determines the access level of each administrative user. A **read only** option is available for each access level group to provide access to the appropriate sections for support roles that are not required to add records, edit details or upload files.

When the Issuer system is first installed, it creates the main administrative user, named **administrator**, by default. The **administrator** user has the highest level of access throughout the issuer system and can create other users that have restricted access rights, are restricted to certain tasks or are have limited access to a certain issuer.

The access level groups are:

System administrator

This is the highest level of access in the system with access to system options, issuer management, user management, cardholder management, transactions, reporting and audit log.

Issuer administrator

This level provides access to issuer configuration options, cardholder management, transactions, reporting and audit log.

· IT security administrator

This level provides dedicated access to the **Audit Log**, for an issuer or issuer group

Member administrator

This level provides dedicated access to the **Admins** section (administration user management), for an issuer or issuer group

· Business administrator



The business level of access to the system provides access to cardholder management, transactions, reporting and audit log.

Helpdesk

The helpdesk user can access cardholder management and transactions.



Note

If the issuer has access to business rules functionality, **Business admin** and / or **Helpdesk** users can be granted access to the Rules section, refer to Section 3.1.3.4 - Issuer Details for further information.

The ActiveAccess issuer system is designed for simultaneous use by multiple issuers, with each access level being able to be restricted to a certain issuer or a group of issuers. This provides the flexibility of allowing a third party to manage multiple issuers on their behalf as well as allowing each issuer to manage their own system without having access or interfering with other issuers.

Normally when a new issuer signs up with the system, the system administrator creates a new issuer and a new issuer administrator. The issuer administrator can then create business administrator and helpdesk users as appropriate for their requirements.

Admins has the following menu options:

- Find Admin for maintaining administrative users and their details
- New Admin for adding new administrative users

Find Admin

This page allows you to search for an administrative user based on Status, Group, Username, Full name, Issuer or Issuer group.

Admins > Find Admin

Use the following fields to search for an Admin user:

You can leave all fields at default or blank to display a list of all admin users.

 Select a Status or All from the drop down list. You can search for enabled or disabled administrative users or both.



- Select a Group or All from the drop down list. Depending on your access level you may be able to search for System Admin, Issuer Admin, IT Security, Member Admin, Business Admin or Helpdesk users.
- Enter all or part of the administrator's **Username**.
- Enter all or part of the administrator's **Full name**.
- · Select an Issuer or All from the drop down list.
- Select an Issuer Group or All from the drop down list.
- · Search button to display results

The **Search Result** page will be displayed.

Admin Search Results

Admins > Find Admin > Search Results

Administrative users are listed according to the search criteria you entered on the **Find Admin** page. You can select any administrative user and delete, enable or disable them.



Note

The main system administrator (administrator) is not displayed in the search results and cannot be disabled or removed.

You can also browse to the admin details page by following the link under **Username** or **Full name** and you can also use the **Change password** link to reset a user's password.

Use the following steps to delete, enable or disable an administrative user:

- Choose one or more users by clicking the Select checkbox adjacent to the Username
- Click the **Delete**, **Enable** or **Disable** button as appropriate.

A confirmation message will be displayed.

Use the following steps to select an administrative user:

Click the Username hyperlink for the user for which you wish to view or edit details.
 The Admin Details page is displayed.



Use the following steps to change an administrative user's password:

Click the Change password hyperlink for the user whose password you wish to change.
 The Change Password page is displayed.

Use the following steps to select **all** items that match the search criteria:

Click the checkbox under the Select column to select or unselect all items. This allows you
to perform the desired action on all selected items.



Warning

Important: The display of search results is limited to 400 records, however if you select all records, all records matching the search criteria will be affected by the action you choose to perform.



Warning

Performing the selected action on a large number of records may take a long time to complete and will generate the equivalent number of audit log records. Use this functionality on a large number of records diligently and only where strictly necessary.

Admin Details

Admins > Find Admin > Search Results > Admin Details

This page allows administrative personnel with the appropriate access rights to update administrative user information.



Note

System administrators have access to all admin users. Issuer administrators have access to business admin and helpdesk users.

The following admin details are displayed on this page:

Status

Can be either **enabled** or **disabled**. A user in a disabled state will not be able to login to the system.



Not

The main administrator cannot be disabled.

· Last login

Shows the date and time of last login by the user of this administrative account.

Group

Indicates the level of access a user has in the administration server and cannot be changed. There access levels are:

- System Admin
- Issuer Admin
- IT Security Admin
- Member Admin
- Business Admin
- Helpdesk.

You can create a user at any one of these access levels with **Read only** access by selecting the Read only checkbox below.

Only administrators that belong to the System Admin and Issuer Admin groups have access to the Admins section and can create new admin users. Issuer Admin group users may only create Business Admin and Helpdesk users. System Admin users may create users at any and all levels.



The main administrator's group cannot be changed.

· Issuer or Issuer Group radio button

Specifies which issuer or issuer group the issuer admin user can access. Issuer admin users may be assigned to a previously defined issuer group rather than a single issuer, which enables them to manage multiple issuers.

Administrators who belong to System Admin group can always access all issuers and as such, issuer selection for system administrators is not required.

Username



A unique name used to identify the administrative user and used for logging into the administration server. The main administrator's username is always **administrator** and cannot be changed.

· Full name

Optional user information that is stored for housekeeping purposes.

Email address

Optional user information that is stored for housekeeping purposes.

· Contact number

Optional user information that is stored for housekeeping purposes.

Address

Optional user information that is stored for housekeeping purposes.

Change Password (Admins > Find Admin > Search Results > Change Password)

While administrators with a higher access level cannot access or see other admin passwords, they can reset or change other users' password. The newly selected password may only be valid for first login if "User must change password at next logon" option is selected.

Read only access checkbox

Select this checkbox if the user performs a support role that is not required to add records, edit details or upload files, for example.

• Two-factor authentication login checkbox

Select this checkbox if you want to enable two-factor authentication when this user logs in.



An email will be sent to the user with a QR code, to be used with Google Authenticator. To use this option, mail server must be configured in *System Management > Settings*. For more information, refer to Login.

Click the Apply button to save changes.

A confirmation message will be displayed.

OR

Click the **Back** button to return to the **Search Results** page without saving any changes.



Use the following steps to change an administrative user's password:

- **Username** is displayed and cannot be changed.
- Fnter the new Password.
- Confirm the new password in the Re-enter new password field.
- Click the User must change the password at next logon checkbox, if required.
- · Click the **Apply** button to save changes.

A confirmation message will be displayed.

New Admin

Admins > New Admin

All ActiveAccess administrative users must be set up in this section.

Creating a new administrative user:

Status

Can be either **enabled** or **disabled**. A user in a disabled state will not be able to login to the system.

Group

Indicates the level of access a user has in the administration server. There access levels are:

- System Admin
- Issuer Admin
- IT Security Admin
- Member Admin
- Business Admin
- Helpdesk

You can create a user at any one of these access levels with **Read only** access by selecting the **Read only access** checkbox.

Only administrators that belong to the System Admin and Issuer Admin groups have access to the Admins section and can create new admin users.



System Admin users may create users at any and all levels. There is no interdependency between System Admin users and the other users they create.

• Issuers or Issuer Groups

Choose the appropriate radio button and select an **Issuer** or an **Issuer group** from the drop down list.

Administrators who belong to the System Admin group can always access all issuers and as such, issuer selection for system administrators is not required.

Username

A unique name used to identify the administrative user and used for logging into the administration server. The main administrator's username is always **administrator** and cannot be changed.

Password

Enter a password

- Re-enter password to confirm it.
- Select the User must change password at next logon checkbox if you want this password to be valid for the user's first login only.
- Select the Two-factor authentication login checkbox if you want to enable two factor authentication when this user logs in.



An email will be sent to the user with a QR code, to be used with Google Authenticator. To use this option, mail server must be configured in *System Management > Settings*. For more information, refer to Login.

Full name

Optional user information that is stored for housekeeping purposes.

· Email address

May be used by the system in order to send email notifications, if the appropriate option is configured by the system administrator.

If Two-factor authentication login is enabled, this email address will be used for sending a QR code to the user. Mail server must be configured in **System Management > Settings**.

Contact number



Optional user information that is stored for housekeeping purposes.

Address

Optional user information that is stored for housekeeping purposes.

· Read only access checkbox

Select this checkbox if the user performs a support role that is not required to add records, edit details or upload files, for example.

• Click the **Apply** button to save changes.

A confirmation message will be displayed.



Note

For further information on individual fields, please refer to Admin Details.



Cards

△ The Cards tab was previously named Users



System Administrators, Issuer Administrators, Business Administrators, Helpdesk Users



This section is used for registering and maintaining individual users or cards. You can search for users or cards; enable or disable users or cards; view user and card information (including the enrolment status); update user and card information; and pre-register new users or cards.



Please see **Upload Registration Files** in the **Issuers** section for uploading card data for bulk registration or preregistration of cardholders.



This page will not be available for remote issuers.

Cards has the following sub menu options:

- · Find Card for maintaining cards and card details
- · New Card for adding new cards
- Find User for maintaining users and user details
- · New User for adding new users

The first Cards page is Find Card.

Find Card

Cards > Find Card



This page allows you to access card related information by searching for cards based on name on card, card number, issuer, BIN, enrolment status, card status, device authentication enabled or disabled, pre-registration or registration date range.



Finding a card using a card number is only possible if you enter the full card number. There is no partial number search or wild card search available.



Search results display the first 400 cards only.

Note

An export function, which allows you to download lists, is available for the following:

- · Pre-registered cardholders for an issuer or issuer group, using the Confirmation Method
- · Cardholders for an issuer or issuer group using the Confirmation Method.

Although the display is limited to the first 400 cards for the selected issuer or issuer group, the full list can be downloaded when the **Export** link is selected.

Use the following fields to find cards to download a list of pre-registered cards:



Only Issuers or Issuer Groups that are using the Confirmation Method can download a list of pre-registered cards.

- Select an Issuer or Issuer Group
- Select Pre-registered as the **Enrolment Status**.
- · Click the Search button

The **Search Result** page will be displayed, showing the pre-registration date, in addition to the standard fields.

• Click the **Export** button to download a file containing the relevant cardholder data.



Note

Exporting is only available to administrators with System Admin and Issuer Admin access level.

Use the following fields to find cards to download a list of cardholders:



It is only possible to download a list of cardholders for Issuers or Issuer Groups that are using the Confirmation Method. Cardholders can be filtered by confirmation status and confirmation date.

- Select an Issuer or Issuer Group
- Select Registered as the Enrolment Status.
- · Click the Search button

The **Search Result** page will be displayed, showing the pre-registration date, in addition to the standard fields

• Click the *Export* button to download a file containing the relevant cardholder data.



Exporting is only available to administrators with System Admin and Issuer Admin access level.

Use the following fields to search for a particular card:

- There are two options when searching for a card: by entering the card number or by entering the cardholder name (exactly as embossed on the card) and selecting the issuer from the drop down list.
- Enter the cardholder's full **Name on Card** and select the **Issuer** of the card from the drop down list to view all matching records. The cardholder name is not case sensitive.
- Enter the full Card number. Multiple search results are displayed when a card account has more than one cardholder.
- Enter the full **Authentication Method** to show cards from only one authentication scheme. J/ Secure, ProtectBuy, SafeKey, SecureCode and VbV schemes available.
- Select the Issuer from the drop down list or select the Group from the drop down list.
- Select the **BIN** from the drop down list.



- Select the card's Enrolment Status from the drop down list. You can choose to search for All,
 Pre-registered, Registered, or Re-activated cards.
- Select the card's **Status** from the drop down list. You can choose to search for enabled, disabled or locked cards.
- Select to search for card for which **Device authentication** enabled or disabled. This allows
 you to limit the results for cards that support two-factor authentication over 3-D Secure or
 those that do not.
- Select the **Device type** that has been registered for the Card from the drop down list. You can choose to search for VASCO, SMS, RSA, Email, CAP (M-Chip 4), or CAP (M-Chip 2).
- Enter the **Device serial number** (unique device identifier) that has been registered for the Card.
- Enter the card's record identifier (**Card ID**) to locate a specific record. This is used for advanced diagnostics where the record identifier is obtained directly from the database.
- Specify an optional date range to limit search results based on the card's Pre-registration
 Date.
- Specify an optional date range to limit search results based on the card's **Registration Date**.
- · Click the Search button.

The **Search Result** page will be displayed.

Card Search Result

Cards > Find Card > Search Result

Cards are listed according to the search criteria you entered on the **Find Card** page. You can select any card and delete, enable or disable them.

The search result page shows card number, name on card, expiry date, issuer enrolment status and card status. Expiry date is an optional field and is only displayed if it was provided at registration.

The card's enrolment status can be either **pre-registered** or **registered**.

The **Search Result** page may return multiple results for a single card number depending on whether this is an account with multiple cardholders or not. Card numbers with multiple cardholders can be distinguished based on the cardholder name.



Note

The issuer system uses the combination of card number and cardholder name (name on card) as the key identifier for authentication purposes.

Card numbers with different card names are treated independently and as such each cardholder can have their separate authentication data. This also means that enabling/disabling registration are handled separately. For example if you wish to completely remove a card from the issuer system, be sure to select and remove all cardholders.

You can browse to the card details page by following the link under **Card Number** or **Name on Card**.

Use the following steps to delete, enable or disable a card:

- Choose one or more cards by clicking the Select checkbox adjacent to the Card Number
- Click the appropriate button.

A confirmation message will be displayed.

Use the following steps to select a card:

Click the Card Number hyperlink for the card you wish to view or edit details.

The **Card Details** page is displayed.

Use the following steps to select all items that match the search criteria:

 Click the box under the **Select** column to select or unselect all items. This allows you to perform the desired task on all selected items.

You should note that all items matching the search criteria will be affected. This includes items displayed on other pages and even those omitted due to the large number of results (display of search results is limited to a maximum of 400 records).



Important: If you are selecting a large number of records, you should remember that the operation can take a long time to complete and will generate an audit log record per affected item. Use this functionality on large number of records with diligence and where only strictly necessary.



Card Details

Cards > Find Card > Search Result > Card Details

The following card details can be viewed/ edited on this page:

Issuer

Shows card's issuing bank and cannot be changed.

- BINs Displays a list of BINs assigned to the issuer. This field is for information only. Issuer
 BIN can be modified by an administrator with System Admin access level through System
 Management > Issuers > Issuer Details > BIN Management page.
- Card ID Unique card number, which cannot be changed.
- Status Can be Enabled, Disabled or Locked. A card is enabled when the cardholder is first enrolled.

For security reasons, administration staff may temporarily disable a card.

A card may also be locked by the system if multiple unsuccessful authentication attempts are detected.

If the cardholder is enrolled and the card is disabled or locked, it cannot be used to make authenticated payments.

If the cardholder is not enrolled, the enrolment process cannot be completed if the card is disabled.

Cards that are locked by the system can be unlocked by administration staff or after a timeout period, as specified in the issuer settings. A card cannot be manually locked.

- **BIN status** Shows the BIN status, which is either **Enabled** or **Disabled**, indicating the availability of the 3-D Secure service for the card. Cards with a **Disabled** BIN cannot be enrolled, registered or authenticated.
- **Registration date** Displayed if cardholder is enrolled.
- Enrolment Shows the enrolment status, which is either registered or pre-registered, along
 with the Pre-registration and Registration date. If the Issuer is using the Confirmation
 method, the Confirmation status and Confirmation date will also appear in this section.
- Authentication Method Specifies the card's authentication scheme and cannot be changed.
 Currently SafeKey, ProtectBuy, J/Secure, SecureCode and Verified by Visa schemes are supported.
- Card number Full card number, partially masked.



Note

Please note that the card number must comply with the Luhn / mod 10 algorithm.

- Name on Card Cardholder name as specified on the card.
- Expiry date Card expiry date (MM/YYYY).
- Device authentication (if enabled) Drop down list shows the status of two-factor authentication for 3-D Secure as Enabled. Select Disabled to disable device authentication for this card and the drop down list will be removed once you click *Apply*.
 - A card, for which device authentication is enabled, can use an authentication device in addition to the conventional 3-D Secure password as a second factor of authentication.
- Number of ADS cancellations Shows the number of times a cardholder has refused to complete activation during shopping by either opting out of ADS or cancelling the transaction.
- ADS proof of attempts granted Shows the number of times a cardholder has been granted proof of authentication attempt without being required to complete the activation during shopping process.



Where Business Rules are being used and a rule has matched, this value is set to the maximum automatically and therefore the value may not be a true representation of the number of ADS proof of authentication attempts that have been granted to this cardholder.

Extended cardholder information - Each card is also associated with one or more
authentication or data fields. The issuer determines the format and number of these fields.
Extended cardholder information is only displayed if the system administrator enables this
option in the Issuer Management section.

For example a card may be accompanied by / associated with:

- A PAM (Personal assurance message or the greeting message as required in VbV, J/ Secure, ProtectBuy, SafeKey and SecureCode schemes)
- An Internet PIN (for secure online transactions). Fields such as Internet PIN are always displayed masked.
- Question and Answer fields used for Challenge and Response.
- A user's authentication Password



- Assigned Devices appears for cards for which device authentication is enabled and links to a Search Results page, which displays authentication devices assigned to this card.
- Account History links to Account History details page, which shows actions affecting
 account status or the devices attached to the account.
- Show Transactions links to the Search Results page, which displays all transactions for this
 card.
- Generate Activation Code link allows the administrator to generate an activation code for a
 replacement device. The link is only shown if the card's primary device is marked as lost or
 damaged. The cardholder requires this activation code before they can complete linking the
 replacement device with an existing account.

Assigned Devices

Cards > Find Card > Search Result > Card Details > Assigned Devices

Assigned Devices displays all devices attached to the selected card. It enables you to assign a new device to a card, remove an assignment or change the status of assigned devices to **Lost**, **Damaged** or **Temporarily disabled**.

The following fields and links are displayed:

• **Device Management** - links to the **Device Management** page for manually assigning a new or existing device to the card, or deleting an existing device.

The following fields and links are displayed for each assigned device:

Select checkbox - for selecting the device to use in conjunction with the *Remove Assignment* button or *Delete* button. To remove assignment of all devices, click the select checkbox in the column heading and then click the *Remove Assignment* button. To completely delete a previously registered device from the system, click the adjacent *Select* checkbox and then click the *Delete* button.

If you select all devices a Warning dialog is displayed asking you to confirm that you want to remove all records that match the search criteria.

- Device ID links to the Device Details page
- · Assign date Date and time device was assigned
- Serial Number The unique device identifier
- Device type The type/make of the device such as VASCO, RSA, Email, CHIP, etc.



Status - Active/Lost/Damaged/Temporarily disabled. An active device can be used in device
authentication. If a device is reported lost, stolen, damaged, or temporarily disabled, it must
be flagged accordingly. A lost or damaged device can no longer be used for authentication
and the user must be issued with a new device. A temporarily disabled device allows
administrators to generate a new backup token.

· Mark as -

- Lost click to change the status of the selected device to lost.
- Damaged click to change the status of the selected device to damaged.
- Temporarily disabled click to change the status of the selected device to temporarily disabled.
- Generate Backup Token link is only shown when the card's primary authentication device is
 marked as temporarily disabled. Providing the user with a backup token allows the user to
 continue using the service while they wait for the replacement authentication device to
 arrive.

The application currently supports two mechanisms for generating backup tokens: a replacement password (the default) and SMS.

A replacement password is a static password that can be used as the second factor of authentication for a limited time and for a limited number of times. Using a static password will not be as secure as using an authentication device. Administrators should only issue backup tokens if allowed by the issuer's security policy and if in line with the issuer's requirements for identifying a user.

A more secure alternative is to use SMS as the backup token, if supported by the issuer device settings. This allows the admin to temporarily switch the user's authentication process to SMS authentication. The user will need to provide a mobile number to which the second factor of authentication will be sent via SMS.

Note that the first SMS batch is not sent immediately. The SMS is sent when the user attempts to perform their next authentication. They may have to wait a few minutes, once they attempt to login next time, for the batch SMS to arrive. Once they receive the first batch SMS, they will continue to receive replacement batch SMS tokens when they use up all the numbers in their current batch.

Device Management

Device Management provides the option to manually assign a new or existing device to the card, or delete an existing device. This is useful for call centre assisted registration of cards. The user



needs to provide a token generated by their device in order to complete the assignment. You can either find an existing device that is already registered in the system and verify it or specify a new device to assign and activate.

- Click the appropriate tab to select the following options:
 - Find Device
 - Assign Existing Device
 - Assign New Device.

Find Device

Cards > Card Details > Assigned Devices > Device Management > Find Device

- · Select an Issuer or All from the drop down list
- Enter a Creation date and time (dd/mm/yyyy HH:MM) or specify a date and time range for the search result by entering dates and times in the From and To fields. The date and time format is dd/mm/yyyy HH:MM. Leave the time field empty if you do not wish to limit your search for a particular time of day.
- Select a Device type, such as VASCO, SMS, RSA, Email, CHIP, etc
- Enter a Device Serial number or specify a serial number range for the search result by entering serial numbers in the Start and End fields.
- · Click Search

A list of devices matching the search criteria will be displayed.

 To remove a device, click the Select radio button, adjacent to the appropriate Device ID, and click the Delete button.

This will remove the device from the system.

Assign Existing Device

Cards > Card Details > Assigned Devices > Device Management > Assign Existing Device

Use the following fields to find an existing device:

- Select an Issuer or All from the drop down list
- Enter a **Creation date** and time (dd/mm/yyyy HH:MM) or specify a date and time range for the search result by entering dates and times in the **From** and **To** fields. The date and time



format is dd/mm/yyyy HH:MM. Leave the time field empty if you do not wish to limit your search for a particular time of day.

- · Select a Device type, such as VASCO, SMS, RSA, Email, CHIP, etc
- Enter a Serial number or specify a serial number range for the search result by entering serial numbers in the Start and End fields.
- · Click Search

A list of devices matching the search criteria will be displayed.

 Click the Select radio button, adjacent to the appropriate Device ID, and click the Apply button

The Verify Device page is displayed

Assign New Device

Cards > Card Details > Assigned Devices > Device Management > Assign New Device

Use the following fields to assign a new device:

Select the Assign New Device tab

NEW SMS DEVICE

- Select **SMS** from the **Device type** drop down list.
- Click the Apply button.

The **New SMS Device** page is displayed.

- · Select an SMS centre from the drop down list.
- Select the **Country calling code** for the country that the mobile number is registered to.
- Enter the **Mobile number** of the cardholder. Mobile number should be no longer than 20 characters, including the Country code. Allowed characters are 0-9, '(', ')', '-' and space.
- · Click the Apply button

A token will be sent to the mobile number and the **Activate Device** page will be displayed.

Existing devices need to be verified and new devices need to be activated, using the token sent to the cardholder's mobile, which is generated by assigning the device.

- Enter the token received by the cardholder's mobile in Enter the token sent to your mobile number.
- Click the Apply button.



NEW EMAIL DEVICE

- Select **Email** from the **Device type** drop down list.
- Click the Apply button.

The **New Email Device** page is displayed.

- Enter the **Email address** of the cardholder.
- · Click the Apply button

A token will be sent to the email address and the **Activate Device** page will be displayed.

Existing email addresses need to be verified and new email addresses need to be activated, using the token sent to the cardholder's email address, which is generated by assigning the email address.

- Enter the token received by the cardholder's email address in **Enter the token sent to you by**
- · Click the Apply button.

Generate Backup Token

Cards > Card Details > Assigned Devices > Generate Backup Token

When the user's primary authentication device is marked as lost or damaged, you can link from the **User Details > Assigned Devices** page to provide the user with a backup token, which all services can use until a replacement device is received.

- Select the Backup device type:
 - Default supplies a static password that can be used as the second factor of authentication for a limited time and for a limited number of times.
 - SMS displayed only if supported by the issuer device settings. This allows the admin user to temporarily switch the cardholder's authentication process to SMS authentication. The cardholder will need to provide the country calling code and a mobile number to which the second factor of authentication will be sent via SMS. Mobile number should be no longer than 20 characters, including the Country Code. Allowed characters are 0-9, '(', ')', '-' and space.
 - Email displayed only if supported by the issuer's device settings. This allows the admin user to temporarily switch the cardholder's authentication process to Email authentication. The cardholder will need to provide the email address to which the second factor of authentication will be sent via email.



· Click the Generate button.

A confirmation message will be displayed.

Show Transactions

Cards > Find Card > Search Result > Card Details > Show Transactions > Show Recent Transactions

Show Transactions allows access to lists of all recent and archived 3-D Secure (payment authentication) or ActiveDevice (two-factor authentication) transactions matching the selected card or user.

<!--- !!! note

If the bank supports RuPay PaySecure authentication, a separate administration interface is available for viewing RuPay Transactions. ---!>

The following fields and links are displayed:

Show Archived Transactions - links to the **Archived Transactions** page which displays the archived 3-D Secure (payment authentication) or ActiveDevice (two-factor authentication) transactions matching the selected card or user.

Use the following steps to select a transaction and view its details:

- Click the **Date** (and time) hyperlink for the transaction you wish to view.
- The Transaction Details page displays the following fields and links:_
- Show Recent Transactions links to the Recent Transactions page which displays the recent
 3-D Secure (payment authentication) or ActiveDevice (two-factor authentication)
 transactions matching the selected card or user.

Use the following steps to select a transaction and view its details:

Click the Date (and time) hyperlink for the transaction you wish to view.
 The Transaction Details page is displayed.

New Card

Cards > New Card



You can use the New Card function to manually register cardholders. This function pre-registers cardholders. Cardholders have to finalise their registration by going through the issuer's standard enrolment process.

Creating a new card:

• Select an **Issuer** from the drop down list of available issuers.

All issuers that your username is assigned to will be listed here.

· BINs

Displays a list of BINs assigned to the issuer. This field is for information purposes. When you enter a new card, the card's BIN number must be one of the existing BINs for the selected issuer.

- Select the Authentication method supported by the card
- Currently J/Secure, ProtectBuy, SafeKey, SecureCode and VbV schemes are supported.



Please note that selecting the authentication method alone does not guarantee that the card can be used in the specified authentication scheme. Other pre-arrangements may also be required. For example in Verified by Visa, a card may not be able to participate before a valid card range that entails the card has been sent to the directory service.

• Select the **Status** of **Enabled** or **Disabled** from the drop down list.

A card is normally enabled when the cardholder is first enrolled. The administration staff for security reasons may temporarily disable a card. A card may also be automatically locked by the system itself if multiple unsuccessful authentication attempts are detected.

When a card is disabled or locked, it cannot be used to make authenticated payments if cardholder is enrolled or alternatively if cardholder has not enrolled yet, the enrolment process cannot be completed before this situation is resolved.

· Enter the full Card number



The card number must comply with the Luhn / mod 10 algorithm.

Enter the cardholder name as specified on the card as Name on Card



- Enter the card Expiry date using mm/yyyy format
- Enter information required for any Extended cardholder information
- Each card is also associated with one or more authentication or data fields. The issuer determines the format and number of these fields. Extended cardholder information is only displayed if the system administrator enables this option in the Issuer Management section.

For example, a card may be accompanied by a **PAM** (Personal assurance message or the greeting message as required in VbV, J/Secure, ProtectBuy, SafeKey and SecureCode schemes) or may be associated with a **PIN** (for secure online transactions), etc. Fields such as Internet PIN are always displayed masked.

Find User

Cards > Find User

You can search for users based on the Issuer to which they belong, by specifying the complete username (or user ID). The username is case sensitive.

Use the following field to search for a particular user:

- · Select an Issuer or All from the drop down list
- Enter the user's **Full Name**, which can be partial and case insensitive. Note that full name is not a mandatory field for a user account and may not be populated for all users.
- Select a Status Can be All, Enabled, Disabled, Deleted or Locked.
- If you want to search for current users only, select the Exclude deleted users from search results checkbox.
- Click the Search button.

The **Search Result** page will be displayed.

User Search Result

Cards > Find User > Search Result

Users matching the search criteria entered on the **Find User** page are listed. You can select any user and delete, enable or disable them.

The search result page shows username, full name, enrolment status and user status.



You can browse to the User Details page by following the **Username** link.

You can select all users by clicking the checkbox in the **Select** column heading. This will select all the items matching your search criteria (i.e. you are not only selecting the items on the current page but all the items on all pages). You can then apply the changes you want to all these items by pressing the corresponding action button.

You should remember that changing the status of items in this manner may take a long time depending on the number items selected. It will also create a huge amount of data in the database as the changes for each single item is saved in the audit log.

Use the following steps to delete, enable or disable a user:

- Choose one or more users by clicking the Select checkbox adjacent to the Username
- Click the appropriate button.

A confirmation message will be displayed.

Use the following steps to select a user:

• Click the **Username** hyperlink for the user you wish to view or edit details.

The **User Details** page is displayed.

Use the following steps to select all items that match the search criteria:

 Click the box in the Select column heading to select or unselect all items. This allows you to perform the desired task on all selected items.

You should note that all items matching the search criteria will be affected. This includes items displayed on other pages and even those omitted due to the large number of results (display of search results is limited to a maximum of 400 records).



Warning

Important: If you are selecting a large number of records, you should remember that the operation can take a long time to complete and will generate an audit log record per affected item. Use this functionality on large number of records with diligence and only where strictly necessary.

User Details

Cards > Find User > Search Result > User Details



This page can be used to view/ update user related information.

The following user details can be viewed/ edited on this page:

- Issuer Shows user's bank and cannot be changed.
- User ID Internal user identifier, which cannot be changed.
- Status Can be enabled, disabled, deleted or locked. A user is normally enabled when they are first enrolled. The administration staff for security reasons may temporarily disable a user. A user may also be automatically locked by the system itself if multiple unsuccessful authentication attempts are detected.

An authentication attempt by a user whose account is disabled or locked is denied.

Users that are automatically locked can be either unlocked by the administration staff or after a time-out period as specified in the issuer settings. A user may not be manually locked, however.

Changing the status of a user to 'deleted' simply marks the account for deletion. It does not physically remove the account from the system. An account that has been marked for deletion may be purged when the archive procedure is run. The archive procedure removes these accounts if they fall outside the specified retention period. For example if the data retention policy for your organisation is 12 months, all accounts that have been deleted for 12 or more months are removed by the archive procedure.

You may undelete an account by simply changing the status of the account to any status other than **Deleted**.

- **Enrolment Status** Shows the enrolment status, which is either registered or pre-registered, along with the registration or pre-registration date.
- Username User's username or user ID as recognised by the issuer system
- Full name optional full name for the user
- Password: An optional password can be specified for the user. This will require the user to
 enter a static password in addition to their device one-time password. The password should
 only be used where both the first factor and the second factor of the authentication is being
 handled by ActiveAccess.



Note

Using this field where the first factor of authentication is handled by the issuer system is not recommended.

- Email optional information for sending notification message to users via email.
- Assigned Devices links to the Search Results page, which displays all devices attached to this account.
- Account History links to Account History details page, which shows actions affecting
 account status or the devices attached to the account
- Show Transactions links to the list of transactions performed by the user starting with the most current transactions.
- Generate Activation Code link allows the administrator to generate an activation code for a
 replacement device. The link is only shown if the user's primary device is marked as lost or
 damaged. The user requires this activation code before then can complete linking the
 replacement device with an existing account.

New User

Cards > New User

You can use the New User function to manually register users. This function pre-registers users. Users have to finalise their registration by going through the issuer's standard enrolment process.

Creating a new user:

- Select the **Issuer** to which this user belongs from the drop down list of available issuers.
- · Status select the initial status of the user.
- **Username** Enter the user's username or user ID as recognised by the issuer system. The username can be an alphanumeric string up to 128 ASCII characters.
- Full name You can specify an optional full name for the user up to 256 ASCII characters.



Note

The username and full name can contain international characters, which will be stored as UTF-8 encoded strings. The system allows for storage of international characters as long as the UTF-8 encoded equivalent does not exceed the ASCII size limit.

Password - An optional password can be specified for the user. This will require the user to
enter a static password in addition to their device one-time password. The password should
only be used where both the first factor and the second factor of the authentication is being
handled by ActiveAccess.



Note

Using this field where the first factor of authentication is handled by the issuer system is not recommended.

• Email - optional information for sending notification messages to users via email.



Transactions

The ability to search by 3DS version added.



System Administrators, Issuer Administrators, Business Administrators, Helpdesk Users



This section is used for accessing 3-D Secure (payment authentication) or ActiveDevice (two-factor authentication) transactions, when required for user support purposes, dispute resolution etc. It has the following menu options:

- Find 3-D Secure to search for and view transactions
- Find ActiveDevice to search for and view devices



It is important to note that in the context of this document, a transaction is an authentication record rather than a financial record. The relationship between the authentication record and the actual authorization record depends on the underlying authentication scheme.

Find 3-D Secure

Transactions > Find 3-D Secure

This page allows you to search for and access 3-D Secure authentication records including the proof of authentication, which can be used for dispute resolution for example.

You can search based on Issuer, Authentication method, Date, Amount, Currency, Account number, Merchant name, Transaction ID and AAV/CAVV (J/Secure, ProtectBuy, SafeKey, SecureCode and VbV) and more.



Use the following fields to search for a 3-D Secure Transaction:

- Select a Target database from the list to search for Current or Archived transactions, if archiving has been configured on the system.
- Select a **3-D Secure version** from the list to search for **All**, **3-D Secure 1** or **3-D Secure 2** transactions
- Specify an ACS Session ID to search for a specific transaction.
- Select an Issuer (from the list of available issuers) to narrow down the search criteria or you
 can select All. If the Issuer has access to Rules, additional search options will be displayed
 below.
- Select the Authentication method from the drop down list. The options are J/Secure,
 ProtectBuy, SafeKey, SecureCode, SPA or VbV.
- You can specify an exact **Date** and time or a date and time range (inclusive) in the **From** and
 To **Date** fields. The date and time format is dd/mm/yyyy HH:MM. Leave the time field empty
 if you do not wish to limit your search for a particular time of day.
 - By default the search is limited to the last 7 days, modify the **From** field if you wish to extend the search period.
- You can specify an exact amount or an amount range (inclusive) in the From and To Amount fields.
- Select the Currency from the drop down list.
- Enter the **Merchant name** in full or in part.
- Enter the full Merchant ID.
- Enter the full cardholder Account number.
- Enter the Transaction ID as specified by the merchant. Transaction ID can be entered in clear or base64 format but you need to the specify the entire Transaction ID (20 character in clear or 28 characters in base64)
- Enter the AAV/CAVV/AEVV to find the transaction for which this value was generated.
 - AAV (Accountholder Authentication Value) / CAVV (Cardholder Authentication Verification Value) / AEVV (American Express Verification Value) is provided in 3-D Secure PARes for J/Secure, ProtectBuy, SafeKey, SecureCode and VbV transactions.
- Enter the **Device serial number** to search for transactions that were authenticated using a particular two-factor authentication device.



 Select a **Device type** from the list to search for transactions performed with particular type of authentication device such as SMS or CAP, etc.

3-D Secure version 1 searches only

- Select a Transaction type from the list to limit the results to transactions that involved a second factor of authentication (Device over 3-D Secure 1) or conventional 3-D Secure 1 transactions.
- Select a VERes status from the list to search for transactions with a particular verify enrolment result. The VERes status can be:
 - Y Cardholder is enrolled
 - N Cardholder is not enrolled
 - U Cardholder enrolment cannot be determined due to technical or other problems
 - Error An error occurred whilst verifying the enrolment status of the cardholder.
- Select a PARes status from the list to search for transactions with a particular payer authentication result. The PARes status can be:
 - Y Cardholder authentication successful
 - A Cardholder is not enrolled but proof of authentication attempt provided to the merchant
 - N Cardholder authentication failed
 - **U** Cardholder authentication cannot be completed due to technical or other problems.
 - N/A Cardholder authentication did not complete.
 - **Error** An error occurred during cardholder authentication.



Use PARes and VERes filters only if you are searching for 3-D Secure records, version 1.0.1 and above.

- Select the transaction Status from the list. The transactions can either be In progress or Processed. An In progress status indicates that either the cardholder has not yet finished the authentication process or the system has not yet sent the PATransReq message to the authentication history server. When you choose to search for all transactions regardless of their status, the system will first return all In progress transactions followed by Processed transactions. Please note that only the first 400 records are returned in total.
- Enter an **Error code/IReq code** to search for in the authentication response message.



 Enter an Error message/IReq message to search for in the authentication response message.

3-D Secure version 2 searches only

- · Enter an SDK transaction ID
- Enter a DS transaction ID
- Enter an 3DS Server transaction ID
- Select an ARes status from the list to search for transactions with a particular authentication response. The ARes status can be:
 - Y Authentication / account verification successful
 - N Not Authenticated / account not verified transaction denied
 - U Authentication / account verification could not be performed technical or other problem, as indicated in ARes or RReg
 - A Attempts processing performed not authenticated / verified but a proof of attempted authentication/verification is provided
 - o C Challenge required additional authentication is required using the CReq/CRes
 - R Authentication / account verification rejected Issuer is rejecting authentication / verification and requests that authorisation not be attempted.
- Select a CRes status from the list to search for transactions with a particular challenge response. The CRes status can be:
 - Y Authentication / account verification successful
 - N Not Authenticated / account not verified transaction denied
- Select an RReq status from the list to search for transactions with a particular results request. The RReq status can be:
 - Y Authentication / account verification successful
 - N Not Authenticated / account not verified transaction denied
 - U Authentication / account verification could not be performed technical or other problem, as indicated in ARes or RReq
 - A Attempts processing performed not authenticated / verified but a proof of attempted authentication/verification is provided
 - C Challenge required additional authentication is required using the CReq/CRes



- R Authentication / account verification rejected Issuer is rejecting authentication / verification and requests that authorisation not be attempted.
- Select a Message cateory from the list to search for All, Payment authentication or Non payment authentication transactions.
- Select an Authentication type from the list to search for All, Static, Dynamic or OOB transactions.
- Select an Device channel from the list to search for App based, Browser or 3DS Requester
 Initiated transactions.

Rules - displayed if specified Issuer has access to Rules. Where an issuer with **Rules** enabled is selected, additional fields will be available so that you can search for transactions by whether they match or do not match one or more rules.

- · Select one of the following radio buttons:
 - · All all transactions, regardless of rules
 - Matched transactions that match the rules selected from the adjacent list
 - o Mismatched transactions that do not match the rules selected from the adjacent list
- Select one or more **Rules** (Ctrl +click to select multiple rules) from the list:
 - Amount Threshold
 - Domestic & International Transaction Threshold
 - Location Watchlist
 - Merchant Blacklist
 - Merchant Watchlist
 - Merchant Whitelist
 - Soft Launch List
 - Stand-In Transaction Threshold
- If you have selected the Matched radio button, you can enter an Error code or Error message to search on.
- If you have selected merchant or location list rules, you can enter additional search parameters:
 - Merchant ID
 - Merchant name



- Acquirer BIN
- Merchant country code
- The Registered after previous opt-outs or cancellations option provides a way of searching
 for and listing transactions where cardholders have completed their registration after initially
 opting out or cancelling activation during shopping.
- Click Search to display the Transaction Search Results.

Transaction Search Results

Transactions > Find Transaction > Search Result

The search result page lists transactions matching the criteria you entered on the **Find Transaction** page and shows transaction date, amount, currency, account number, merchant name, issuer, method, status and transaction type.

Only the first six and the last four digits of the account number are shown. An **X** masks the rest of the digits. You can choose to display card number in plain text in Settings.

You can browse to the transaction details page by following the link under **Account Number**.

Use the following steps to select a transaction and view its details:

• Click the **Date** (and time) hyperlink for the transaction you wish to view.

The **Transaction Details** page is displayed.

Transaction Details

Transactions > Find Transaction > Search Result > Transaction Details

This page shows the details for the Transaction selected on the Transaction Search Result page.

The following fields can be viewed on this page:

- Issuer Shows the card's issuing bank.
- Authentication method Shows the authentication method relevant to this transaction. The
 options are: J/Secure, ProtectBuy, SafeKey. SecureCode, or Verified by Visa.
- Relevant 3DS1 or 3DS2 Status (as described above in the search criteria)
- **Date** Shows the date and time of the transaction.



- · SDK transaction ID
- · DS transaction ID
- · 3DS Server transaction ID
- · ARes status Authentication Result status.
- ARes status reason Authentication Result reason.
- CRes status Challenge Result status.
- RReg status Results Request status.
- Device channel Shows the device channel as App based, Browser or 3DS Requester Initiated.
- Message category Shows the message category as Payment authentication or Non payment authentication.
- Authentication type Shows the authentication type as Static, Dynamic or OOB.
- Amount Shows the transaction amount, including the currency.
- Account number Shows the last five digits of the account number, which is used in this transaction. Links to the Card Details page.
- Merchant name Shows the merchant name.
- Merchant ID (J/Secure, ProtectBuy, SafeKey, SecureCode and VbV) Acquirer-defined merchant identifier, up to 24 characters including the Card Acceptor ID and Card Acceptor Terminal ID.
- Transaction ID Transaction ID as specified by the merchant (XID for J/Secure, ProtectBuy, SafeKey, SecureCode and VbV)
- AAV/CAVV/AEVV Accountholder Authentication Value / Cardholder Authentication
 Verification Value / American Express Verification Value for J/Secure, ProtectBuy, SafeKey,
 SecureCode and VbV authentication.
- **Device serial number** The unique identifier of the authentication device used in the transaction for two-factor authentication, if available.
- Device type The type of authentication device used in the transaction for two-factor authentication, if available.
- **Transaction type** 3-D Secure 1, Device over 3-D Secure 1, or 3-D Secure 2, depending on whether the transaction was a conventional password-based 3-D Secure 1 authentication, a two-factor authentication or a 3-D Secure 2 authentication.



- **Error code** 0 if the authentication request was successfully completed. Any other value indicates an error condition.
- Error text A descriptive message for the response code.
- Error detail Detailed information for the error condition.
- Matched rules Displays the rules against which the transaction matched, with links to the
 details of the rule at the time of the transaction.
 - Where a transaction has matched the merchant blacklist rule, the Matched Rule Details display the matched rule highlighted in red.
- Click on the Requests and Responses link to see the details of 3-D Secure 1 messages (VEReq, VERes, PAReq, PARes, PATransReq, PATransRes) or 3-D Secure 2 messages (AReq, ARes, CReq, CRes, RReq, RRes).



Refer to "3-D Secure Protocol Specification Core Functions" or "EMV® 3-D Secure Protocol and Core Functions Specification" documentation available from the Visa International or EMVCo website.

Find ActiveDevice

Transactions > Find ActiveDevice

Use this page in order to find ActiveDevice transactions and access the details of two-factor authentication records.

Use the following fields to search for an ActiveDevice Transaction:

- Select a **Target database** from the list to search for **Current** or **Archived** transactions.
- You must select an Issuer but you can leave the rest of the fields at default or blank to display a list of all available ActiveDevices. Select an Issuer (from the list of available issuers) to narrow the search criteria or you can select All.
- You can specify an exact date and time or a date and time range (inclusive) in the From and
 To Date fields. The date and time format is dd/mm/yyyy HH:MM. Leave the time field empty
 if you do not wish to limit your search for a particular time of day.



Note

By default the search is limited to the last 7 days, modify the **From** field if you wish to extend the search period.

- Enter a full **Username** to limit the search results to a particular user.
- Enter the **Device serial number** to search for transactions performed with the specified device.
- Select a **Device type** from the list to limit the search to transactions performed with a particular device.
- Select a **UERes status** from the list to search for transactions with a particular user enrolment result. The options are:
 - All
 - Y User is enrolled
 - R User is pre-registered
 - N User is not enrolled
 - ∘ **E** Error
 - **U** User enrolment cannot be determined due to technical or other problems.
- Select a UARes status from the list to search for transactions with a particular user authentication result. The options are:
 - Y User authentication successful
 - N User authentication failed
 - ∘ **E** Error

ActiveDevice Search Results

Transactions > Find ActiveDevice > Search Result

The search result page lists ActiveDevice transactions matching the criteria you entered on the **Find ActiveDevice** page and shows transaction date, username, device serial number, issuer, device type and status.

You can browse to the transaction details page by following the link under *Date*.



Use the following steps to select an ActiveDevice transaction and view its details:

Click the Date hyperlink for the transaction you wish to view.

The **ActiveDevice Details** page is displayed.

ActiveDevice Details

Transactions > Find ActiveDevice > Search Result > ActiveDevice Details

This page shows the details for the ActiveDevice transaction selected on the ActiveDevice Search Result page.

The following fields can be viewed on this page:

- Unique Session ID
- User's Issuer
- · Date and time of the transaction
- · UERes status can be:
 - Y User is enrolled
 - N User is not enrolled
 - R User is pre-registered
 - **U** User enrolment cannot be determined due to technical or other problems.
- · UARes status can be:
 - Y User authentication successful
 - N User authentication failed
 - **U** User authentication cannot be completed due to technical or other problems
- User's login **Username**, which links to the **User Details** page
- Serial number of the authentication device used in the transaction.
- **Device type** of the token used for authentication
- · Response code

0 if the authentication request was successfully completed. Any other value indicates an error condition.

· Response text



A descriptive message for the response code.

· Response detail

Detailed information for the error condition.

 Click on the Requests and Responses link to see the details of ActiveDevice protocol messages.



Reporting







System Administrators, Issuer Administrators, Business Administrators

System Management | Security | Servers | Utilities | Issuers | Rules | Admins | Cards | Transactions | Reports | Audit Log

This section provides various reports for cardholder and user activity, authentication, card and user enrolment and purchase volume.

Reports can be run for all issuers or any number of issuers or issuer groups. All reports except for the Summary return the total for all selected issuers. The Summary report returns the total and also breaks the report down based on the selected issuers.



Warning

A default time zone is set when the application is installed. This Time zone is displayed, for reference, on the menu bar, from where it can be modified at any time, as and when appropriate. The modification of the Time zone on the menu bar does not change the Time zone for the Issuer.

Note

If you modify the Time zone in the menu bar it will persist for the current session only. It will revert to the Time zone entered in the Issuer settings, the next time you login.

All search parameters for transactions, audit logs and reports (daily, monthly and annual) will be based on the Time zone specified on the menu bar at the time of the search.

IMPORTANT: If the time zone is changed in **Issuers > Settings**, it will impact the data displayed for issuer reports (daily, monthly and annual). When attempting to change the time zone, a warning message is displayed with the following options:

• Continue and delete report data - reports will not be available for the selected issuer until the next overnight report run, which will use the new time zone.



Note

If auto archive is enabled, archived data will no longer be collected and previous report data will be lost.

- Continue and keep report data existing report data will be inaccurate due to the time change. Accurate reports will not be available until the next overnight report run, which will use the new time zone.
- Cancel time zone will not be changed.

Reports section has the following sub menu options:

- Card Summary based reports: authentication attempts, successful authentications, number
 of enrolled, registered and existing cards and card activity broken down by 3-D Secure
 provider and selected issuers and issuer groups.
- User Summary based reports: authentication attempts, successful authentications, number
 of enrolled, registered and existing users and user activity.
- Activity based reports remaining cards, active cards, and authentication method for selected issuers/ issuer groups and time period.
- Authentication based reports Statistics on authentications broken down by the status of associated authentication messages for a given issuer and time period.
- Enrolment Activity based reports enrolled cards, pre-registered cards, cancelled cards and authentication method for a given period.
- Merchant Activity based reports total authentications, authentication status, and authentication method per merchant.
- Purchases based reports purchase volumes, authentication method, and currency type for a given period.
- User Authentication reports Statistics on device authentication attempts broken down by the status of associated authentication messages for a given issuer and time period.
- User Activity based reports remaining users, active users, for ActiveDevice authentications for a given issuer and time period.
- User Enrolment Activity based reports enrolled users, pre-registered users, cancelled users and authentication method for a given period.
- Admin based reports number of administrators, broken down by user access type and selected issuers and issuer groups.



The first **Reports** page is **Card Summary**.

Card Summary Report

Reports > Card Summary

The summary report provides an overview of some the more important metrics of the system, including: the number of authentications, successful authentications, number of enrolled, registered and existing cards in the system and card activity. The report is broken down by 3-D Secure provider and can be customised to include one or more issuers or issuer groups. The report can be generated for a specified period of time.

Use the following fields to produce a card summary report:

- Enter a date range in the From and To dates (dd/mm/yyyy). Defaults are: From: 01/01/ and To: 31/12/.
- Select at least one Authentication method, by selecting/deselecting the appropriate checkboxes. All methods are selected by default with the report displaying values against only the selected methods.
- Select which issuers to run the report for; All Issuers is selected by default. To run the report
 for one or more Issuer Groups and/or Issuers, deselect the All Issuers checkbox and use the
 Add >>, <<Remove buttons to select Issuers or Issuer Groups.



Warning

Run the report for **All Issuers** with caution as it may take a significant time to produce the report.

- Extend report by device type by selecting the checkbox. If selected, at least one device should be selected to run the report.
- 3-D Secure Version by selecting the 3DS1 and / or 3DS2 checkboxes, as appropriate.
- · Click the Go button to display the new report.
- Click the *Export* button in order to export the currently displayed report as a Comma Separated Value (CSV) file.
- Click the Back button to modify the search criteria.



The following are displayed for the Period specified:

- · Date range of report
- Names of the issuer groups / issuers selected or 'for all issuers' if the All Issuers checkbox was selected
- Issuer
- · Total for Issuers selected

Authentication

- · Number of VbV authentication attempts
- Number of SC authentication attempts
- Number of J/S authentication attempts
- · Number of SK authentication attempts
- Number of DC authentication attempts
- · Number of Total number of authentication attempts
- Number of Successful VbV authentications
- · Number of Successful SC authentications
- Number of Successful J/S authentications
- · Number of Successful SK authentications
- · Number of Successful DC authentications
- · Total number of successful authentications



Note

If **Extend by device type** selected, the above are displayed for each device loaded in the system, for example:

- · Backup token
- VASCO
- RSA
- · SMS
- Email
- · CAP (M-Chip 4)
- CAP (M-Chip 2)



Enrolment

- · Number of pre-registered cards
- · Number of fully registered cards
- Total number of cards enrolled

Card Activity

- Number of active VBV cards
- Number of active SecureCode cards
- Number of active J/Secure cards
- · Number of active SafeKey cards
- Number of Active ProtectBuy cards
- Total Number of active cards

User Summary Report

Reports > User Summary

The user summary report provides an overview of some the more important metrics of the system, including: the number of authentications, successful authentications, number of enrolled, registered and existing users in the system and user activity. The report is broken down by device type and can be customised to include one or more issuers or issuer groups. The report can be generated for a specified period of time.

Use the following fields to produce a user summary report:

- Enter a date range in the **From** and **To** dates (dd/mm/yyyy). Defaults are: **From: 01/01/** and **To: 31/12/**.
- Select which issuers to run the report for. All Issuers is selected by default. To run the report
 for one or more Issuer Groups and/or Issuers, deselect the All Issuers checkbox and use the
 Add>>, <<Remove buttons to select Issuers or Issuer Groups.



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Warning

Run the report for All Issuers with caution as it may take a significant time to produce the report.

- · Select at least one **Device** to run the report for.
- · Click the **Go** button to display the new report.
- Click the *Export* button in order to export the currently displayed report as a Comma Separated Value (CSV) file.
- · Click the Back button to modify the search criteria.

The following are displayed for the Period specified:

- Date range of report
- Names of the issuer groups / issuers selected or 'for all issuers' if the All Issuers checkbox was selected
- Issuer
- Total for Issuers selected

Authentication

- VASCO authentication attempts
- SMS authentication attempts
- RSA authentication attempts
- · Email authentication attempts
- CAP (M-Chip 4) authentication attempts
- · CAP (M-Chip 2) authentication attempts
- · Backup device authentication attempts
- Total number of authentication attempts
- · Successful VASCO authentications
- · Successful SMS authentications
- Successful RSA authentications
- · Successful Email authentications
- · Successful CAP (M-Chip 4) authentications



- · Successful CAP (M-Chip 2) authentications
- · Successful backup device authentications
- · Total number of successful authentications

User Enrolment:

- · Pre-registered users
- Fully registered users
- · Total number of users

Device Enrolment:

- VASCO
- SMS
- RSA
- Email
- CAP (M-Chip 4)
- · CAP (M-Chip 2)
- Backup
- Total number of devices

User Activity:

· Total number of active users

Activity Report

Reports > Activity

The activity report shows the total number of enrolled cards and active cards for a given period for all or selected issuers and/or issuer groups.

The report is also broken down by the authentication method. A card is said to be active in a given period if the cardholder has at least performed one successful authentication with the card in the specified period.



The default report shows monthly cardholder activity for the current year for all issuers. You may select any number of issuers or issuer groups; daily, monthly or annual report period; and specify a date range.

Use the following fields to produce an activity report:

- Select Monthly, Daily or Annual Period from the drop down list.
- Enter a date range in the From and To dates (dd/mm/yyyy). Defaults are: From: 01/01/ and To: 31/12/.
- Select at least one Authentication method, by selecting/deselecting the appropriate checkboxes. All methods are selected by default with the report displaying values against only the selected methods.
- Select which issuers to run the report for. All Issuers is selected by default. To run the report
 for one or more Issuer Groups and/or Issuers, deselect the All Issuers checkbox and use the
 Add>>, <<Remove buttons to select Issuers or Issuer Groups.



Warning

Run the report for All Issuers with caution as it may take a significant time to produce the report.

- Click the **Go** button to display the report.
- Click the *Export* button in order to export the currently displayed report as a Comma Separated Value (CSV) file.
- · Click the Back button to modify the search criteria.

Authentication Report

Reports > Authentication

This reports shows authentication statistics for a given period based on the status codes returned by **VERes** and **PARes** messages for **3DS1** and **AuthRes** messages for **3DS2**.



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3DS1 statistics

The status code for **VERes** messages can be **Y** for 'enrolled users', **N** for 'not enrolled users' or **U** for 'unable to determine the enrolment status of the user due to some technical difficulty'.

The report calculates ER (enrolment rate) as: (VERes=Y) / (VERes=Y+N+U)

The status code for **PARes** messages can be **Y** for 'successful authentication', **N** for 'failed authentication', **A** for 'authentication attempt' or **U** for 'unable to authenticate the user due to some technical difficulty'.

The report calculates AR (authentication rate) as: (PARes=Y) / (PARes=Y+A+N+U)

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3DS2 statistics

The status code for **ARes** and **CRes** messages can be **Y** for 'enrolled users', **N** for 'not enrolled users' or **U** for 'unable to determine the enrolment status of the user due to some technical difficulty'.

The report calculates AR (authentication rate) as (ARes=Y+CRes=Y) / (ARes=Y+A+N+U+R+C)

The default report shows monthly authentication statistics for the current year for all issuers. You may select any number of issuers or issuer groups; a different daily, monthly or annual report period; and specify a date range.

Use the following fields to produce an authentication report:

- Select Monthly, Daily or Annual Period from the drop down list.
- Enter a date range in the From and To dates (mm/yyyy). Defaults are: From: 01/ and To: 12/.
- Select at least one Authentication method, by selecting/deselecting the appropriate checkboxes. All methods are selected by default with the report displaying values against only the selected methods.
- Select which issuers to run the report for. All Issuers is selected by default. To run the report
 for one or more Issuer Groups and/or Issuers, deselect the All Issuers checkbox and use the
 Add>>, <<Remove buttons to select Issuers or Issuer Groups.



Warning

Run the report for **All Issuers** with caution as it may take a significant time to produce the report.

• Extend report by device type by selecting the checkbox. If selected, at least one device should be selected to run the report.



- 3-D Secure Version by selecting the 3DS1 and / or 3DS2 checkboxes, as appropriate.
- · Click the Go button to display the new report.
- Click the *Export* button in order to export the currently displayed report as a Comma Separated Value (CSV) file.
- · Click the Back button to modify the search criteria.

Enrolment Activity

Reports > Enrolment Activity

The enrolment report shows the total number of enrolled, pre-registered and cancelled cards for a given period. The report is also broken down by the authentication method.

The default report shows monthly card enrolments for the current year for all issuers. You may select any number of issuers and/or issuer groups, a different daily, monthly or annual report; and specify a period.

The **Enrolled Cards** column shows the total number of cards enrolled (fully registered) in the selected period. Some of these cards may have been cancelled, which appear in the **Cancelled Cards** column. The difference between Enrolled Cards and Cancelled cards is the number of enrolled cards remaining.

The **Pre-registered** cards column shows the number of cards, which have been pre-enrolled by the banks for those cardholders who have not yet finalised their registration. Some of these cards may be cancelled before the cardholder has finalised their enrolment. Currently the system does not log this event and the statistics for cancelled pre-registered cards is not available.

Use the following fields to produce an enrolment report:

- · Select Monthly, Daily or Annual Period from the drop down list.
- Enter a date range in the **From** and **To** dates (dd/mm/yyyy). Defaults are: **From: 01/** and **To: 12/**.
- Select at least one **Provider**, by selecting/deselecting the appropriate checkboxes. All
 providers are selected by default with the report displaying values against only the selected
 Providers.



Select which issuers to run the report for. All Issuers is selected by default. To run the report
for one or more Issuer Groups and/or Issuers, deselect the All Issuers checkbox and use the
Add>>, <<Remove buttons to select Issuers or Issuer Groups.

A

Warning

Run the report for All Issuers with caution as it may take a significant time to produce the report.

- Click the Go button to display the new report.
- Click the *Export* button in order to export the currently displayed report as a Comma Separated Value (CSV) file.
- Click the Back button to modify the search criteria.

Merchant Activity

Reports > Merchant Activity

The merchant activity report shows the total number of authentications initiated by top merchants for a given period. The report is also broken down by the authentication method and successful and failed authentications.

By default, the report shows top 10 merchants' activity for the current year based on total authentication requests send by the merchant. You may select a different period or view top 20 or 50 merchants instead. You may also select the report to be generated and sorted based on the authentication scheme or the number of successful and failed authentications.

Use the following fields to produce a merchant activity report:

- Select Top 10 Merchants (default), Top 20 Merchants or Top 50 Merchants from the Show drop down list
- Select the authentication type from the Based on drop down list. Defaults to Total Authentications.
- Enter a date range in the From and To dates (dd/mm/yyyy). Defaults are: From: 01/01/ and To: 31/12/.
- Select at least one Authentication method, by selecting/deselecting the appropriate checkboxes. All methods are selected by default with the report displaying values against only the selected methods.



Select which issuers to run the report for. All Issuers is selected by default. To run the report
for one or more Issuer Groups and/or Issuers, deselect the All Issuers checkbox and use the
Add>>, <<Remove buttons to select Issuers or Issuer Groups.

A

Warning

Run the report for All Issuers with caution as it may take a significant time to produce the report.

- Extend report by device type by selecting the checkbox. If selected, at least one device should be selected to run the report.
- 3-D Secure Version by selecting the 3DS1 and / or 3DS2 checkboxes, as appropriate.
- Click the Go button to display the new report.
- Click the *Export* button in order to export the currently displayed report as a Comma Separated Value (CSV) file.
- Click the **Back** button to modify the search criteria.

Purchases Report

Reports > Purchases

The purchase report shows the total purchase volume for a given period. The report is also broken down by the authentication method. The purchase volume is divided based on the purchase currency.

The report shows monthly purchase volume for the current year by default. You may select a different daily, monthly or annual report and specify a period or choose a currency for the report.



Note

Please note that authentication requests display the currency in which the transaction will be cleared by the merchant and do not specify any international exchange rates involved in the authorization process. As such the purchase report may have to be specified in multiple currencies.

Use the following fields to produce a purchases report:

- Select a Currency or All from the drop down list
- Select Monthly, Daily or Annual Period from the drop down list



- Enter a date range in the From and To dates (dd/mm/yyyy). Defaults are: From: 01/01/ and To: 31/12/.
- Select at least one Authentication method, by selecting/deselecting the appropriate checkboxes. All methods are selected by default with the report displaying values against only the selected methods.
- Select which issuers to run the report for. All Issuers is selected by default. To run the report
 for one or more Issuer Groups and/or Issuers, deselect the All Issuers checkbox and use the
 Add >>, <<Remove buttons to select Issuers or Issuer Groups.

A

Warning

Run the report for **All Issuers** with caution as it may take a significant time to produce the report.

- Extend report by device type by selecting the checkbox. If selected, at least one device should be selected to run the report.
- 3-D Secure Version by selecting the 3DS1 and / or 3DS2 checkboxes, as appropriate.
- · Click the Go button to display the new report.
- Click the *Export* button in order to export the currently displayed report as a Comma Separated Value (CSV) file.
- · Click the Back button to modify the search criteria.

The following are displayed by the Period specified:

- Period days, months or years
- Names of the issuer groups / issuers selected or 'for all issuers' if the All Issuers checkbox was selected
- Number of Transactions
- Total Amount for transactions by transaction currency
- SecureCode Transactions
- SecureCode Total
- VbV Transactions
- VbV Total
- JCB J/Secure Transactions
- J/Secure Total



- American Express SafeKey Transactions
- · SafeKey Total
- · Diners Club International ProtectBuy Transactions
- ProtectBuy Total

User Authentication Report

Reports > User Authentication Report

This reports shows device authentication statistics for a given period.

This reports shows authentication statistics for a given period based on the status codes returned by UERes and UARes messages.

Status code for UERes messages:

Y - enrolled users N - not enrolled users E - Error N - not enrolled users R - pre-registered users U - unable to determine the enrolment status of the user due to some technical difficulty.

The report calculates ER (enrolment rate) as: UERes=Y+R/UERes=Y+R+N+U

The status code for UARes messages can be **Y** for 'successful authentication', **N** for 'failed authentication', **A** for 'authentication attempt' or **U** for 'unable to authenticate the user due to some technical difficulty'.

The report calculates AR (authentication rate) as: UARes=Y/UARes=Y+N

The default report shows monthly authentication statistics for the current year. You may select a different daily, monthly or annual report period and specify a date range.

Use the following fields to produce a device authentication report:

- Select Monthly, Daily or Annual Period from the drop down list
- Enter a date range in the From and To dates (dd/mm/yyyy). Defaults are: From: 01/01/ and To: 31/12/.
- Select which issuers to run the report for. All Issuers is selected by default. To run the report
 for one or more Issuer Groups and/or Issuers, deselect the All Issuers checkbox and use the
 Add>>, <<Remove buttons to select Issuers or Issuer Groups.



Warning

Run the report for All Issuers with caution as it may take a significant time to produce the report.

- Select a **Device** to run the report for (optional).
- Click the Go button to display the new report.
- Click the **Export** button in order to export the currently displayed report as a Comma Separated Value (CSV) file.
- · Click the Back button to modify the search criteria.

User Activity Report

Reports > User Activity

This reports shows device authentication activity statistics for a given period for a specified issuer.

The default report shows device authentication activity for the current year. You may select a different issuer, daily, monthly or annual report period and specify a date range.

Use the following fields to produce an ActiveDevice activity report:

- · Select Monthly, Daily or Annual Period from the drop down list
- Enter a date range in the **From** and **To** dates (mm/yyyy). Defaults are: **From: 01/01/** and **To:** 31/12/.
- Select which issuers to run the report for. **All Issuers** is selected by default. To run the report for one or more Issuer Groups and/or Issuers, deselect the All Issuers checkbox and use the Add>>, <<Remove buttons to select Issuers or Issuer Groups.



Warning

Run the report for All Issuers with caution as it may take a significant time to produce the report.

- · Click the **Go** button to display the new report.
- Click the Export button in order to export the currently displayed report as a Comma Separated Value (CSV) file.



· Click the Back button to modify the search criteria.

User Enrolment Activity Report

Reports > User Enrolment Activity

This report shows ActiveDevice user enrolment statistics for a given period.

The default report shows monthly user enrolments for the current year. You may select a different daily, monthly or annual report and specify a period.

The **Enrolled Users** column shows the total number of users enrolled in the selected period. Some of these users may have been cancelled, which appear in the **Cancelled Users** column. The difference between enrolled users and cancelled users is the number of enrolled users remaining.

The **Pre-registered Users** column shows the number of users, which have been pre-enrolled by the banks but have not yet finalised their registration. Some of these users may be cancelled before they have finalised their enrolment. Currently the system does not log this event and the statistics for cancelled pre-registered users is not available.

Use the following fields to produce an enrolment report:

- Select Monthly, Daily or Annual Period from the drop down list
- Enter a date range in the From and To dates (dd/mm/yyyy). Defaults are: From: 01/01/ and To: 31/12/.
- Select which issuers to run the report for. All Issuers is selected by default. To run the report
 for one or more Issuer Groups and/or Issuers, deselect the All Issuers checkbox and use the
 Add>>, <<Remove buttons to select Issuers or Issuer Groups.
- · Click the Go button to display the new report.
- Click the *Export* button in order to export the currently displayed report as a Comma Separated Value (CSV) file.
- Click the Back button to modify the search criteria.

Admin Report

Reports > Admin



This report provides a summary of administrative user accounts by issuer. The report is broken down by user access type and can be customised to include one or more issuers or issuer groups.

Use the following fields to produce an admin report:

- Select which issuers to run the report for. All Issuers is selected by default. To run the report
 for one or more Issuer Groups and/or Issuers, deselect the All Issuers checkbox and use the
 Add>>, <<Remove buttons to select Issuers or Issuer Groups.
- · Click the Go button to display the new report.

The admin report is broken down into three sections: summary, admin users per issuer and admin users per group. Summary shows the total number of admin users across the system based on their access type and available to system users only. Issuer and group based reported show admin users per issuer and group, respectively.

- Click the Export link to export the currently displayed report as a Comma Separated Value (CSV) file.
- · Click the Back link to modify the search criteria.



Audit Log



System Administrators, Issuer Administrators, IT Security Administrators



This section is used for keeping a record of all critical actions performed by administrative users. It has the follow menu options:

Find Audit Log

This section is used to locate and view audit logs. You can search for an audit log by Date Range, Username, User ID, Issuer or Issuer Group, Access type, Event type and Table.

Audit Log > Find Audit Log

Use the following field to search for an audit log:

You can leave all fields at default or blank to display a list of all logs.

- Select a Target database from the list to search for Current or Archived audit logs.
- Enter a date range in dd/mm/yyyy format in the From and To fields.
- Enter all or part of the **Username**
- Enter a User ID, which is a unique ID assigned to each user when first created. Unlike
 username, user ID remains unchanged and can be used to identify a user, in case the
 username has changed.
- Access type defaults to All. Deselect the Access type checkbox to select from the drop down list. Select multiple Access types using Ctrl+click.
- When Access Type is set to Event or All, Event type defaults to All. Deselect the Event type
 checkbox to select from the drop down list. Select multiple Event types using Ctrl+click.
- For all Access types, other than **Event**, you can optionally select a database **Table** which limits the results to actions performed on the selected table.



Tables defaults to **All**. Deselect the **Tables** checkbox to select from the **Available** list and then click the **Add>>** button to transfer the **Table** to the **Selected** list. Select multiple Tables using Ctrl+click.

· Search button to display results.

Search Result

This page displays logs matching your search criteria.

Use the No or Date links to view details for a log.

Audit Log > Find Audit Log > Search Result

Fields & links displayed on this page:

- No records are numbered for reference purposes only for each search performed this field links to Audit Log Details page for selected record
- Date link to Audit Log Details page for selected record.
- Time log was recorded
- · Database Table accessed
- Type of Access Event, Update, Insert or Delete
- Username
- Issuer
- Group

Log Details

This page displays full details for the audit log record selected on the **Search Result** page.

Audit Log > Find Audit Log > Search Result > Log Details

Fields displayed on this page:

- Access ID
- · Access date
- Username
- · User ID



- Type of access
- Description
- · Client IP
- · Object name
- · Issuer
- Group

Fields displayed for the database table changed:

- Field
- · Old Value
- · New Value



Profile Management



All Admin Users can edit their profile and change their password.

It is recommended that you change your password on a regular basis for security reasons or if you suspect that security has been compromised by another user logging in with your username and password.

The Change Password function is accessed via the **Edit Profile** link displayed on the right of the title bar area. You can also use this link to keep your contact details up to date.

· Click the Edit Profile hyperlink

The **Edit Profile** page is displayed.

Edit Profile

Use the following fields to change your details or password:

- The **Username** of the user currently logged on is displayed and cannot be changed.
- User Details
- Enter your Full name.
- You must enter a valid email address
- Enter your **Contact number**.
- Enter your Address.

Password Details

- Enter your current password as **Old password**.
- Enter the **New Password** you have chosen.



A

Warning

Always choose a password that you have not used for the Administration Server previously. The Administration System keeps a history of the last 10 passwords and does not allow you to reuse passwords in the history. For example, you cannot keep two favourite passwords and rotate them. If you try to reuse a password stored in the history a message is displayed: **This password has been selected before**.

- Re-enter your new password as **Re-enter Password**.
- Two-factor authentication login checkbox

Select this checkbox if you want to enable two-factor authentication when logging in.



Note

After clicking **Apply**, a **Secret key** and a **QR code** will be displayed, to be used with Google Authenticator. For more information, refer to Login.

· Click the **Apply** button to save your details.



Error Codes

Server Error Codes

| Server
Error
Codes | | | |
|--------------------------|--|--|-------|
| Code | Message | Details | Usage |
| 1 | Root element invalid. | Exception message and its cause FourDSecure ThreeDSecure | Yes |
| 2 | Message element not a defined message. | Exception message and its cause VVRQ PPRQ Undefined CRReq | Yes |
| 3 | Required element missing. | PaReq TermUrl MD Id VEReq.Extension.Id PAReq.Extension id VEReq.version version PAReq.version Pan VEReq.Pan PAReq.Merchant.name name PAReq.Merchant.country country PAReq.Merchant.url url PAReq.Purchase.xid xid PAReq.Purchase.date date PAReq.Purchase.amount amount PAReq.Purchase.purchAmount purchAmount PAReq.Purchase.currency currency PAReq.Purchase.exponent exponent PAReq.CH.acctID acctID PAReq.CH.expiry expiry Message.Id Id Message | Yes |
| 4 | Critical element not recognized. | Extension VEReq.Extension PAReq.Extension | Yes |



| Server
Error
Codes | | | |
|--------------------------|---|--|-----|
| 5 | Format of one or more elements is invalid according to the specification. | Exception message and its cause version VEReq.Version PAReq.Version Pan VEReq.Pan VEReq.Extension.Id Extension.Id VEReq.Browser.deviceCategory devicCategory Extension.Critical PAReq.Merchant.name name Merchant.name PAReq.Merchant.country country Merchant.country PAReq.Purchase.xid xid Purchase.xid PAReq.Purchase.date date Purchase.date PAReq.Purchase.amount amount Purchase.amount PAReq.Purchase.purchAmount purchAmount Purchase.purchAmount PAReq.Purchase.currency currency Purchase.currency PAReq.Purchase.exponent exponent Purchase.exponent PAReq.Purchase.desc desc Purchase.desc PAReq.Purchase.Recur.frequency frequency Recur.frequency PAReq.Purchase.Recur.endRecur endRecur Purchase.Recur.endRecur PAReq.Purchase.install install .Purchase.install PAReq.CH.acctID acctId CH.acctID PAReq.CH.expiry expiry CH.expiry Message.Id Id Merchant Merchant.merID | Yes |
| 6 | Protocol version too old. | Protocol version too old. Protocol version is not supported by ProtectBuy. | Yes |
| 98 | Transient system failure. | Contact your vendor with this 'ACS Session ID': %sessionId% | Yes |
| 99 | Permanent system failure. | %s | No |



| Server
Error
Codes | | | |
|--------------------------|--|--|-----|
| 1001 | Invalid http request | Invalid HTTP request: PAHndler.run() Invalid HTTP request: | Yes |
| 1002 | Process timed out | Process timed out | Yes |
| 1003 | Invalid xml request | Invalid XML request process. | No |
| 1004 | Error in ThreeDS.service(): %s | Error in ThreeDS.service(): %s | No |
| 1005 | Permission denied | Permission denied | Yes |
| 1006 | An extension is not currently associated with this request | An extension is not currently associated with this request | Yes |
| 1007 | ACS failed to start successfully. | ACS failed to start successfully | Yes |
| 1008 | Error in inflating PAReq | Error in inflating PAReq ver 1.0.1 | Yes |
| 1009 | Error in deflating PARes | Error in deflating PARes ver 1.0.1 | No |
| 1010 | This session is invalid. Please try again. | This session is invalid. Please try again. | Yes |
| 1011 | Your session has now expired. Please try again. | Your session has expired. Please try again. | Yes |
| 1012 | Internal error:
Unable to save session. | Internal error:
Unable to save session. | No |
| 1013 | Invalid authentication result in ThreeDS.service(): %s | Invalid authentication result in ThreeDS.service(): %s | No |
| 1014 | '%s' request length is too large | 'HTTP' request length is too large 'XML' request length is too large | Yes |
| 1015 | Invalid cardholder name for PARes 10X in ThreeDS.service() | Invalid cardholder name for PARes 10X in ThreeDS.service() | No |



| Server
Error
Codes | | | |
|--------------------------|--|--|-----|
| 1016 | The process has been successfully completed. One or more required parameters were not specified. | The process has been successfully completed. One or more required parameters were not specified. | Yes |
| 1017 | Cannot find any authentication data. | Authentication data not found. | Yes |
| 1018 | Issuer's BIN does not support device authentication over 3-D Secure. | This issuer BIN range does not support device authentication for 3-D Secure. | No |
| 1019 | Issuer does not support any devices. | Issuer does not support any devices. | Yes |
| 1020 | Invalid request. | ACS records show the card type is MasterCard but the request was received as on Visa VE server. ACS records show the card type Visa but the request was received as on MasterCard VE server | Yes |
| 1021 | There is no assigned device. | There is no device assigned. | Yes |
| 1022 | Different card types. | Cards belong to different card schemes. | Yes |
| 1023 | Invalid character | There is an invalid character in parameter (%s) | No |
| 1024 | Invalid card in authentication process | Card is pre-registered and cannot be used in the authentication process. | Yes |
| 1025 | Illegal process | Illegal process 'Authorization' | Yes |
| 1026 | Server is in reinitializing state | Server is in reinitializing state. | Yes |
| 1027 | Invalid authentication URL | 'Url' is invalid | Yes |
| 1028 | Cannot find all the required parameters for PA processing | Cannot find all the required parameters for PA processing 'URI'. | Yes |



| Server
Error
Codes | | | |
|--------------------------|------------------------------------|---|-----|
| 1029 | Page and process do not match | The 'page name' page cannot be displayed while in the duplicate cardholder process. | Yes |
| 1030 | Invalid parameter value | | No |
| 1031 | Email Device Param not initialized | | Yes |

User Error Codes

| User
Error
Codes | | | |
|------------------------|---|---------------------------|-------|
| Code | Message | Details | Usage |
| 1 | Root element invalid. | Device | Yes |
| 2 | Message element not a defined message. | Name of undefined element | Yes |
| 3 | Required element missing. | Name of missing element | Yes |
| 4 | Critical element not recognized. | Extension | Yes |
| 5 | Format of one or more elements is invalid according to the specification. | Name of invalid element | Yes |
| 50 | Issuer %s does not participate in device authentication. | %s | Yes |
| 55 | Transaction data not valid. | %s | Yes |
| 56 | Signature verification failed. | %S | Yes |
| 70 | Invalid request | %S | Yes |
| 71 | Session is invalid. | %S | Yes |



| User
Error
Codes | | | |
|------------------------|--|---|-----|
| 72 | Session is expired. | %S | Yes |
| 98 | Transient system failure | %S | Yes |
| 99 | Permanent system failure. | %S | Yes |
| 1001 | Invalid HTTP request | Invalid request | No |
| 1002 | Process timed out | Process timed out | No |
| 1003 | Invalid XML request | Invalid XML request | No |
| 1004 | | %s does not exist or has an incorrect format | No |
| 1005 | Permission denied | Permission denied | No |
| 1006 | An extension is not currently associated with this request | An extension is not currently associated with this request | No |
| 1007 | Server has not started correctly | Server has not started correctly | No |
| 1008 | | Error in serializing the %s XML Document | No |
| 1009 | | Session '%s' has expired | No |
| 1010 | Invalid request length | '%s' request length is too large | No |
| 1011 | | The process has been successfully completed. One or more required parameters were not specified | No |
| 1012 | | Error in inflating UAReq ver 1.0.1 | No |
| 1013 | | Error in deflating UARes ver 1.0.1 | No |
| 2001 | User not registered | | No |



| User
Error
Codes | | |
|------------------------|--|-----|
| 2002 | User is locked | Yes |
| 2003 | Action cancelled | Yes |
| 2004 | User is disabled | Yes |
| 2005 | Maximum number of transactions exceeded | Yes |
| 2010 | Device not registered | Yes |
| 2011 | Cannot find any active devices | Yes |
| 2012 | Device type is not supported. Type = %s | Yes |
| 2013 | Invalid device extension, %s | Yes |
| 2014 | Invalid token | Yes |
| 2015 | Invalid password | Yes |
| 2016 | One-way authentication is not supported for device type %s | Yes |
| 2017 | Maximum number of SMS resend request exceeded | Yes |
| 2050 | Issuer %s does not participate in device authentication | Yes |
| 2051 | License key does not allow for device authentication, %s | Yes |
| 2052 | Invalid password for issuer %s | Yes |
| 2053 | Device type %s is not supported for issuer %s | Yes |



| User
Error
Codes | | | |
|------------------------|--|-----|---|
| 2054 | The interface is disabled for issuer %s | Yes | 6 |
| 2055 | Device type %s is not supported by the device owner (issuer: %s) | Yes | 6 |
| 2056 | The process has been successfully completed. One or more required parameters were not specified. | Yes | 6 |
| 2057 | Duplicate UAReq not allowed | Yes | 8 |

Account Error Messages

| Account Error
Messages | | |
|---------------------------|---|-------|
| Code | Message | Usage |
| 101 | Please re-enter the field(s) highlighted in red | Yes |
| 102 | Required field missing | Yes |
| 103 | Invalid number | No |
| 104 | Invalid password | Yes |
| 105 | Invalid activation code | No |
| 106 | Data verification error | Yes |
| 107 | Field length exceeded | Yes |
| 108 | Invalid one time password | Yes |
| 109 | Invalid cardholder name | Yes |



| Account Error
Messages | | |
|---------------------------|---|-----|
| 110 | Invalid cardholder | No |
| 111 | Invalid password length | No |
| 112 | Passwords do not match | Yes |
| 113 | Invalid answer | Yes |
| 114 | Invalid username | Yes |
| 115 | Invalid full name | Yes |
| 116 | Invalid personal assurance message (PAM) | Yes |
| 117 | Invalid expiry date | Yes |
| 118 | Invalid card number | Yes |
| 120 | Invalid question | No |
| 121 | Invalid device type selected | Yes |
| 122 | Resynchronization failed | Yes |
| 123 | Invalid cardID | Yes |
| 124 | Password must be between [%1] to [%2] characters long | Yes |
| 125 | Password must contain at least [?] number(s) | Yes |
| 126 | Password must contain at least [?] capital letter(s) | Yes |
| 127 | Unicode characters cannot be used | Yes |
| 128 | Invalid character | No |
| 129 | The parameter ([?]) is required | Yes |



| Account Error
Messages | | |
|---------------------------|---|-----|
| 130 | Invalid PriSec | Yes |
| 131 | The Personal Message must not contain your Verified by Visa password or Password Hint | Yes |
| 132 | The Password Hint must not contain your Verified by Visa password | Yes |
| 133 | The account should have ([?]) authentication data | Yes |
| 134 | Invalid Hint | Yes |
| 135 | Invalid Data Format | Yes |
| 136 | [%1] does not match the confirmation [%2] | Yes |

Authentication Device Messages

| Authentication Device
Messages | | |
|-----------------------------------|---|-------|
| Code | Message | Usage |
| 101 | Please re-enter the field(s) highlighted in red | No |
| 102 | Required field missing | Yes |
| 103 | Invalid number | No |
| 104 | Invalid password | No |
| 105 | Invalid Activation Code | No |
| 106 | Data verification error | No |
| 107 | Field length exceeded | Yes |
| 108 | Invalid one time password | Yes |



| Authentication Device
Messages | | |
|-----------------------------------|---|-----|
| 301 | Current Token: | Yes |
| 302 | Please enter the one time password from one of your existing devices here | Yes |
| 303 | Invalid one time password | Yes |
| 304 | Invalid serial number | Yes |
| 305 | Device is lost | Yes |
| 306 | Device is damaged | Yes |
| 307 | Device is already assigned | Yes |
| 401 | Current Token: | No |
| 402 | Please enter the one time password from one of your existing devices here | No |
| 403 | Invalid one time password | Yes |
| 404 | Invalid serial number | Yes |
| 405 | Device is lost | Yes |
| 406 | Device is damaged | Yes |
| 407 | Device is already assigned | Yes |
| 501 | SMS Token: | Yes |
| 502 | Please enter the one time password which was sent to you via SMS | Yes |
| 503 | Invalid SMS one time password | Yes |
| 504 | Invalid mobile number | Yes |
| 505 | Invalid mobile network provider | Yes |



| Authentication Device
Messages | | |
|-----------------------------------|--|-----|
| 506 | Invalid country calling code | Yes |
| 507 | Please enter the mobile number only, without the country code or prefixes | Yes |
| 508 | Mobile number is temporarily disabled | Yes |
| 509 | Phone is damaged | Yes |
| 510 | Phone is lost | Yes |
| 511 | The mobile number entered already exists and has been assigned to a different SMSC | Yes |
| 512 | Your mobile number and confirmation do not match. Please re-enter | Yes |
| 513 | Phone is already assigned | Yes |
| 601 | Current Token: | No |
| 602 | Please enter the one time password from one of your existing devices here | No |
| 603 | Invalid one time password | Yes |
| 604 | Invalid PAN | Yes |
| 605 | Device is not active | Yes |
| 606 | Device is lost | Yes |
| 607 | Device is damaged | Yes |
| 608 | Device is already assigned | Yes |
| 701 | Email Token: | No |
| 702 | Please enter the one time password which was sent to you via Email | No |



| Authentication Device
Messages | | |
|-----------------------------------|---|-----|
| 703 | Invalid Email one time password | Yes |
| 704 | Invalid Email Address | Yes |
| 705 | Email is lost | Yes |
| 706 | Email is damaged | Yes |
| 707 | Your Email and confirmation do not match. Please re-enter | Yes |
| 708 | Email is already assigned | Yes |
| 709 | Unicode characters are not accepted | Yes |

Local Pages Errors

| Local Pages
Errors | |
|-----------------------|---|
| Code | Message |
| 101 | Please re-enter the field(s) highlighted in red |
| 102 | Required field missing |
| 103 | Invalid number |
| 104 | Invalid SecureCode Invalid Verified by Visa Password Invalid JSecure Password Invalid SafeKey Invalid ProtectBuy Password |
| 105 | Invalid activation code |
| 106 | Data verification error |
| 107 | Field length exceeded |



| Local Pages
Errors | |
|-----------------------|--|
| 108 | Invalid one time password |
| 109 | Invalid cardholder name |
| 112 | Your SecureCode and confirmation do not match. Please re-enter. Your Verified by Visa Password and confirmation do not match. Please re-enter. Your JSecure and confirmation do not match. Please re-enter Your SafeKey and confirmation do not match. Please re-enter. Your ProtectBuy Password and confirmation do not match. Please re-enter. |
| 113 | Invalid answer |
| 114 | Invalid username |
| 115 | Invalid full name |
| 116 | Invalid personal assurance message (PAM) |
| 117 | Invalid expiry date |
| 118 | Invalid card number |
| 119 | Invalid CVC |
| 120 | Invalid question |
| 121 | Invalid device type selected |
| 122 | Resynchronization failed |
| 123 | Invalid Password length Your SecureCode must be less "maxPassLen" characters long Your Verified by Visa Password must be less than "maxPassLen" characters long Your SecureCode must be less "maxPassLen" characters long Your Verified by Visa Password must be less than "maxPassLen" characters long Your JSecure Password must be less than "maxPassLen" characters long Your SafeKey must be less than "maxPassLen" characters long Your Password must be less than maxPassLen" characters long |



| Local Pages
Errors | |
|-----------------------|--|
| 124 | Your SecureCode must be less "maxPassLen" characters long Your Verified by Visa Password must be less than "maxPassLen" characters long |
| 125 | Your SecureCode must contain at least "minPassDigit" digit(s) Your Verified by Visa must contain at least "minPassDigit" digit(s) JSecure must contain at least "minPassDigit" digit(s) SafeKey must contain at least "minPassDigit" digit(s) Password must contain at least "minPassDigit" digit(s) |
| 126 | Your SecureCode must contain at least "minPassCapital" capital letter(s) Your Verified by Visa must contain at least "minPassCapital" capital letter(s) Your JSecure must contain at least "minPassCapital" capital letter(s) Your SafeKey must contain at least "minPassCapital" capital letter(s) Your Password must contain at least "minPassCapital" capital letter(s) |
| 127 | Unicode characters are not accepted |
| 128 | Invalid character |
| 129 | Device is already assigned |
| 130 | Invalid PriSec |
| 131 | The Personal Message must not contain your Verified by Visa password or Password Hint |
| 132 | The Password Hint must not contain your Verified by Visa password |
| 150 | This field cannot be left blank |
| 303 | Invalid one time password |
| 304 | Invalid serial number |
| 305 | Device is lost |
| 306 | Device is damaged |
| 307 | Device is already assigned |



| Local Pages
Errors | |
|-----------------------|--|
| 403 | Invalid one time password |
| 404 | Invalid serial number |
| 405 | Device is lost |
| 406 | Device is damaged |
| 407 | Device is already assigned |
| 503 | Invalid SMS one time password |
| 504 | Mobile number does not match the specified mobile restriction pattern |
| 505 | Invalid mobile network provider |
| 506 | Invalid country phone code |
| 507 | Please only enter mobile phone number without country code and prefixes |
| 508 | Mobile number has been temporarily disabled |
| 509 | Mobile phone for this number has been reported as damaged |
| 510 | Mobile phone for this number has been reported as lost |
| 511 | There is an already existing mobile number which has been assigned to a different SMSC |
| 512 | Your Mobile Number was not correctly confirmed. Please make sure that the Mobile Number and confirmation match |
| 513 | Phone is already assigned |
| 603 | Invalid one time password |
| 604 | Invalid PAN |
| 605 | Device is not active |



| Local Pages
Errors | |
|-----------------------|----------------------------|
| 607 | Device is damaged |
| 608 | Device is already assigned |



Glossary

This page provides a list of terms relating to 3D Secure 1 and 2, some are not used elsewhere in this documentation but are included for completeness of the subject area. Familiarise yourself with them now or refer back to this page when you come across an unfamiliar word, phrase or acronym.

| Term | Acronym | Definition |
|--------------------|---------|---|
| 2-F Authentication | | A generic functionality, which allows for strong authentication of any transaction, commercial or otherwise, for example, strong authentication of users when they login to an Internet banking site or when they authorise funds transfer to a third party. 2-F authentication requires two independent ways to establish identity and privileges as opposed to traditional password authentication, which requires only one 'factor' (knowledge of a password). |
| 3-D Secure | 3DS | A payer authentication standard (3D Secure 1 (3DS1)) introduced by |
| 3D Secure | 3DS1 | Visa (Verified by Visa) and subsequently adopted by Mastercard |
| 3D Secure 1 | 3DS2 | (Mastercard SecureCode and Mastercard SecureCode), JCB (JCB J/ |
| 3D Secure 2 | | Secure), American Express (SafeKey) and Diners Club International / |
| | | Discover (ProtectBuy) designed to reduce online credit card fraud and |
| | | chargeback. The 3DS standard provides an additional layer of protection |
| | | in card-not-present credit card transactions for the three domains |
| | | involved: Issuer domain of the card issuing bank, the Interoperability |
| | | domain of the card scheme's infrastructure and the Acquirer domain of the merchants. |
| | | The second version of the standard, 3D Secure 2 (3DS2) (EMV 3-D |
| | | Secure protocol), is facilitated by EMVCo, a six member consortium |
| | | comprised of American Express, Discover, JCB, Mastercard, UnionPay |
| | | and Visa. It creates a frictionless payment experience for cardholders by |
| | | facilitating a richer cardholder data exchange, allowing risk-based |
| | | authentication by issuers for low risk transactions, instead of |
| | | authentication challenges to the cardholder, such that most |
| | | authentication activity will be invisible to the cardholder. 3DS2 also |
| | | supports authentication of app-based transactions on mobile and other |
| | | consumer connected devices, and cardholder verification for non- |
| | | payment transactions, such as adding a payment card to a digital wallet. |



| Term | Acronym | Definition |
|--|---------|--|
| 3DS Client | | The consumer-facing component, such as a browser-based or mobile app online shopping site, which facilitates consumer interaction with the 3DS Requestor for initiation of the EMV 3-D Secure protocol. |
| 3DS Integrator | | An EMV 3-D Secure participant that facilitates and integrates the 3DS Requestor Environment, and optionally facilitates integration between the Merchant and the Acquirer. |
| 3-D Secure Provider | | An entity such as American Express, Diners Club International, Discover, JCB, Mastercard or Visa, which provides interoperability services for issuers and merchants who participate in the authentication process. The 3-D Secure provider is normally in charge of managing the directory server, managing the authentication history server and issuing the digital certificates required for participation in the authentication scheme. |
| 3DS Requestor | | The initiator of the EMV 3-D Secure Authentication Request, known as the AReq message. For example, this may be a merchant or a digital wallet requesting authentication within a purchase flow. |
| 3DS Requestor App | | An App on a Consumer Device that can process a 3-D Secure transaction through the use of a 3DS SDK. The 3DS Requestor App is enabled through integration with the 3DS SDK. |
| 3DS Requestor
Environment | | This describes the 3DS Requestor controlled components of the Merchant / Acquirer domain, which are typically facilitated by the 3DS Integrator. These components include the 3DS Requestor App, 3DS SDK, and 3DS Server. Implementation of the 3DS Requestor Environment will vary as defined by the 3DS Integrator. |
| Three Domain Secure
Software
Development Kit | 3DS SDK | 3-D Secure Software Development Kit. A component that is incorporated into the 3DS Requestor App. The 3DS SDK performs functions related to 3-D Secure on behalf of the 3DS Server. |
| 3DS Requestor
Initiated | 3RI | 3-D Secure transaction initiated by the 3DS Requestor for the purpose of confirming an account is still valid. The main use case being recurrent transactions (TV subscriptions, utility bill payments, etc.) where the merchant wants perform a Non-Payment transaction to verify that a subscription user still has a valid form of payment. |
| 3DS Server | | Refers to the 3DS Integrator's server or systems that handle online transactions and facilitate communication between the 3DS Requestor and the Directory Server. |



| Term | Acronym | Definition |
|------------------------------------|---------|---|
| 3-D Secure | 3DS | Three Domain Secure . An eCommerce authentication protocol that for version 2 onwards enables the secure processing of payment, non-payment and account confirmation card transactions. |
| Access Control
Server | ACS | A component that operates in the Issuer Domain, which verifies whether authentication is available for a card number and device type, and authenticates specific Cardholders. |
| Accountholder Authentication Value | AAV | A value providing proof of cardholder authentication, which is generated by the issuer's access control server for each transaction. The AAV is passed by the merchant to the acquirer and then by the acquirer to the issuer through the UCAF field. |
| Acquirer | | A financial institution that has a relationship with a merchant and processes payment transactions for that merchant. |
| ActiveAccess | | GPayments' access control server for card issuers and service providers. |
| ActiveDevice | | GPayments' device agnostic two-factor authentication component. |
| ActiveMerchant | | GPayments' payment authentication platform (merchant plug-in) for merchants. |
| ActiveServer | | GPayments' 3DS Server for payment processors and merchants (see 3DS Server). |
| Attempts | | Used in the EMV 3DS specification to indicate the process by which proof of an authentication attempt is generated when payment authentication is not available. Support for Attempts is determined by each DS. |
| Authentication | | In the context of 3-D Secure, the process of confirming that the person making an eCcommerce transaction is entitled to use the payment card. |
| Authentication
Device | | A physical device capable of generating a token to be used in the verification of a user's identity. |
| Authentication
Request Message | AReq | An EMV 3-D Secure message sent by the 3DS Server, via the DS, to the ACS to initiate the authentication process. |



| Term | Acronym | Definition |
|------------------------------------|---------|--|
| Authentication
Response Message | ARes | An EMV 3-D Secure message returned by the ACS, via the DS, in response to an Authentication Request message. |
| Authentication Token | | An unpredictable piece of information generated by an authentication device, which is used to verify the identity of a user. The term token may sometimes be used to refer to the physical device that generated the token as well. |
| Authentication Value | AV | A cryptographic value generated by the ACS to provide a way, during authorisation processing, for the authorisation system to validate the integrity of the authentication result. The AV algorithm is defined by each Payment System. |
| Authorisation | | A process by which an Issuer, or a processor on the Issuer's behalf, approves a transaction for payment. |
| Authorisation System | | The systems and services through which a Payment System delivers online financial processing, authorisation, clearing, and settlement services to Issuers and Acquirers. |
| Bank Identification
Number | BIN | The first six digits of a payment card account number that uniquely identifies the issuing financial institution. Also referred to as an Issuer Identification Number (IIN) in ISO 7812. |
| BankNet | | Mastercard's proprietary payment network. |
| Base64 | | Encoding applied to the Authentication Value data element as defined in RFC 2045. |
| Base64 URL | | Encoding applied to the 3DS Method Data, Device Information and the CReq/CRes messages as defined in RFC 7515. |
| Card | | Card is synonymous with the account of a payment card, in the EMV 3-D Secure Protocol and Core Functions Specification. |
| Certificate Authority | CA | |
| Cardholder | | An individual to whom a card is issued or who is authorised to use that card. |



| Term | Acronym | Definition |
|--|---------|--|
| Cardholder
Activation During
Shopping | | A 3D-Secure 1 process by which cardholders can enrol with the authentication system at the time of making a purchase at a participating merchant eCommerce website. |
| Centralised Authentication and Authorisation Service | CAAS | A remote ACS, see Access Control Server. |
| Challenge | | The process where the ACS is in communication with the 3DS Client to obtain additional information through Cardholder interaction. |
| Challenge Flow | | A 3-D Secure flow that involves Cardholder interaction as defined in the <i>EMV 3-D Secure Protocol and Core Functions Specification</i> . |
| Challenge Request
Message | CReq | An EMV 3-D Secure message sent by the 3DS SDK or 3DS Server where additional information is sent from the Cardholder to the ACS to support the authentication process. |
| Challenge Response
Message | CRes | The ACS response to the CReq message. It can indicate the result of the Cardholder authentication or, in the case of an App-based model, also signal that further Cardholder interaction is required to complete the authentication. |
| Chip Card | | A card with an on-board integrated circuit chip. |
| Consumer Device | | Device used by a Cardholder such as a smartphone, laptop, or tablet that the Cardholder uses to conduct payment activities including authentication and purchase. |
| Cryptography | | A process that encrypts information for the purpose of protecting it. Information is decrypted when required. |
| Device | | see Authentication Device. |
| Device Channel | | Indicates the channel from which the transaction originated. Either: • App-based (01-APP) • Browser-based (02-BRW) • 3DS Requestor Initiated (03-3RI) |
| Device Information | | Data provided by the Consumer Device that is used in the authentication process. |



| Term | Acronym | Definition |
|---|-------------------|---|
| Directory Server | DS | A server component operated in the Interoperability Domain; it performs a number of functions that include: authenticating the 3DS Server, routing messages between the 3DS Server and the ACS, and validating the 3DS Server, the 3DS SDK, and the 3DS Requestor. |
| Directory Server
Certificate Authority | DS CA or
CA DS | A component that operates in the Interoperability Domain; generates and Certificate Authority (DS distributes selected digital certificates to components participating in 3-D Secure. Typically, the Payment System to which the DS is connected operates the CA. |
| Directory Server ID (directoryServerID) | | Registered Application Provider Identifier (RID) that is unique to the Payment System. RIDs are defined by the ISO 7816-5 standard. |
| Electronic Commerce
Indicator | ECI | Payment System-specific value provided by the ACS to indicate the results of the attempt to authenticate the Cardholder. |
| Digital Signature | | Equivalent of the physical signature in the digital world. Digital signatures can verify the identity of owner of a piece of information or a document in the digital world. |
| Enrolment | | A cardholder must pass an initial online authentication procedure in 3D-Secure 1, which is verified by the Issuer prior to gaining eligibility for participation in American Express SafeKey, Diners Club International ProtectBuy, JCB J/Secure, Mastercard SecureCode or Verified by Visa authentication. |
| Frictionless | | Used to describe the authentication process when it is achieved without Cardholder interaction. |
| Frictionless Flow | | A 3-D Secure flow that does not involve Cardholder interaction as defined in EMVCo Core Spec Section 2.5.1. |
| Issuer | | A financial institution that provides cardholders with credit cards. |
| J/Secure | | JCB's standard for cardholder authentication, based on 3-D Secure. |
| Message
Authentication Code | MAC | |



| Term | Acronym | Definition |
|--|---------|--|
| Mastercard
SecureCode / Identity
Check | | Mastercard's payer authentication brand, which includes SPA Algorithm for the Mastercard Implementation of 3-D Secure, SPA and chip card authentication program (CAP). |
| Mastercard 3-D
Secure | | The SPA Algorithm for the Mastercard Implementation of 3-D Secure that provides a browser authentication experience to the cardholder (see also 3-D Secure). |
| Mastercard Identity
Check | | see Mastercard SecureCode / Identity Check. |
| Merchant | | Entity that contracts with an Acquirer to accept payments made using payment cards. Merchants manage the Cardholder online shopping experience by obtaining the card number and then transfers control to the 3DS Server, which conducts payment authentication. |
| Merchant Plug-in
(MPI) | | A software module which can be integrated into a merchant's eCommerce website or run as a managed service on behalf of a number of merchants to provide 3-D Secure authentication. |
| Non-Payment Authentication | NPA | · |
| One-Time Passcode | ОТР | A passcode that is valid for one login session or transaction only, on a computer system or other digital device. |
| Out-of-Band | ООВ | A Challenge activity that is completed outside of, but in parallel to, the 3-D Secure flow. The final Challenge Request is not used to carry the data to be checked by the ACS but signals only that the authentication has been completed. ACS authentication methods or implementations are not defined by the 3-D Secure specification. |
| Payer Authentication
Request | PAReq | Message sent from the MPI to the Access Control Server at the cardholder's issuer via the cardholder browser. |
| Payer Authentication
Response | PARes | A digitally signed message sent from the Access Control Server to the Merchant Plug-in which communicates whether the cardholder authentication was successful or not. |



| Term | Acronym | Definition |
|--|---------|---|
| Payment Gateway | | A software system provided by an acquirer or a third party which accepts transactions from the Internet and transfers them to a payment network such as BankNet or VisaNet. |
| Preparation Request
Message | PReq | 3-D Secure message sent from the 3DS Server to the DS to request the ACS and DS Protocol Versions that correspond to the DS card ranges as well as an optional 3DS Method URL to update the 3DS Server's internal storage information. |
| Preparation
Response Message | PRes | Response to the PReq message that contains the DS Card Ranges, active Protocol Versions for the ACS and DS and 3DS Method URL so that updates can be made to the 3DS Server's internal storage. |
| Proof or authentication attempt | | Refer to Attempts. |
| ProtectBuy | | Diners Club International and Discover standard for cardholder authentication, based on 3-D Secure. |
| Registered
Application Provider
Identifier | RID | Registered Application Provider Identifier (RID) is unique to a Payment System. RIDs are defined by the ISO 7816-5 Standard and are issued by the ISO/IEC 7816-5 Registration Authority. RIDs are 5 bytes. |
| Results Request
Message | RReq | Message sent by the ACS via the DS to transmit the results of the authentication transaction to the 3DS Server. |
| Results Response
Message | RRes | Message sent by the 3DS Server to the ACS via the DS to acknowledge receipt of the Results Request message. |
| Risk-Based
Authentication | RBA | During risk-based authentication, the rich cardholder data exchanged in AReq is taken into account to determine the risk profile associated with that transaction. The complexity of the challenge is then decided based on the risk profile. |
| SafeKey | | American Express standard for cardholder authentication, based on 3-D Secure. |



| Term | Acronym | Definition |
|--|---------|--|
| Secure Payment Application (SPA) | | Mastercard's payer authentication standard designed to reduce online credit card fraud and chargeback using a client-side applet. Also known as Mastercard's PC Authentication Program, Mastercard SecureCode, Mastercard SPA and SPA. |
| Secure Sockets Layer (SSL) | | A protocol designed to maintain the integrity and confidentiality of communication over the Internet. |
| SecureCode | | see Mastercard SecureCode / Identity Check. |
| Token: | | see Authentication Token. |
| Two Factor Authentication | | see 2-F Authentication |
| Uniform Resource
Locator (URL) | | Address system for locating unique sites on the Internet. |
| Universal Cardholder
Authentication Field
(UCAF) | | Data element 48 sub element 43 as defined in Mastercard BankNet to carry authentication data. Mastercard SecureCode uses this element to transport AAV from the acquirer to the issuer. |
| Verified by Visa | VbV | A payer authentication standard introduced by Visa (see 3-D Secure). |
| VisaNet | | Visa's proprietary payment network. |



Document Control

□ new item □ item changed □ item removed □ no change to item

| Date | AA
Ver | Doc
Ver | Change Details |
|--------------|-----------|------------|--|
| [05/09/2019] | 8.0.1 | 8.0.1:1 | Product Architecture (Installation Guide) Disaster Recovery and Clustering diagrams added. |
| | | | Installation (Installation Guide) △ Changes made to Upgrades from v7.4.x and New installations. |
| | | | Security (Admin UI) Create Certificate Request: New Key type field added. |
| | | | Risk Engine Adapter (Specifications) ParameterDataElements: Validator field description updated RemoteAssessmentRequest Data Elements: PreviousData field format updated AReqWithTransStatusDataElements added AReq Data Elements: ThreeDSCompInd and ThreeDSRequestorAuthenticationInd field updated. |
| | | | Remote Messaging (Specifications) InitAuthReq table: Usage of oobInfo changed. |
| | | | Out of Band (OOB) Authentication Adapter (Specifications) Change the URL in Restful API version of OOB Adapter Change NOTAUTHENTICATED to NOT_AUTHENTICATED Update MobilePhone Data Elements, HomePhone Data Elements, and WorkPhone Data Elements. |



| Date | AA
Ver | Doc
Ver | Change Details |
|------------|-----------|------------|--|
| 15/08/2019 | 8.0.0 | 8.0.0:1 | Product Architecture (Installation Guide) Components labelled with (3DS1) or (3DS2) as relevant Challenge Server (3DS2) added. Risk Engine Adapter added Out of Band (0OB) Authentication Adapter added Logical view of ActiveAccess diagram updated Hardware and Software Requirements updated Removed references to RuPay components. |
| | | | External Components (Installation Guide) Application Server dependency removed, supports compatible Java Application Servers. |
| | | | Installation (Installation Guide) ActiveAccess installation and setup process simplified. |
| | | | System Management (Admin UI) Authentication Management section added with tabs for: Device Management previously under System Management Risk Management for 3DS2 risk management OOB Management for OOB processing support. |
| | | | System Management (Admin UI) - Issuer Management Device Settings: OOB added as a supported device. |
| | | | Security (Admin UI) Directory Server Certificate section added OOB Certificate section added Risk Certificate section added. |
| | | | Issuers (Admin UI) Providers parameters moved to a new page, and linked, from the Settings page. New fields added. |



| Date | AA
Ver | Doc
Ver | Change Details |
|------|-----------|------------|--|
| | | | Rules (Admin UI) Rule Management section replaces previous Authentication Exemption and Force Registration sections Tabs for: Registration previously Force Registration tab under Rules Authentication previously Authentication Exemption tab under Rules Settings. |
| | | | Cards (Admin UI) Users tab renamed to Cards. |
| | | | Reports (Admin UI) Reports support reporting by 3-D Secure version. |
| | | | Transactions (Admin UI) Find 3-D Secure: supports search by 3-D Secure version. New fields added. |
| | | | Admins (Admin UI) Admin User Details and User Profile: added 2-factor authentication login option |
| | | | Local Messaging (Specifications) A Final Registration Request: updated with OOB device registration request. |
| | | | Remote Messaging (Specifications) Transaction table: issuerName and theeDSProtocolVersion added HeaderParams table added AdditionalParams table added PreAuthResp table: AuthType added InitAuthReq table: new OTP types for AuthType and oobInfo added Sample Request Response: changed CVD to NULL. |



| Date | AA
Ver | Doc
Ver | Change Details |
|------------|-----------|------------|---|
| | | | CHANGES TO DOCUMENTATION STRUCTURE All documentation moved online with the ability to print to PDF |
| | | | To print the entire ActiveAccess documentation : click the button on the Introduction page. |
| | | | To print a section: click the button on that section. Tip: hovering your mouse over the button will let you see which section will be printed. |
| | | | See Documentation change details for full details of the changes in the documentation moving from PDF to online format. |
| 26/02/2019 | 7.4.6 | 7.4.6.1 | Remote Messaging initAuthReq table: added AuthType CardInfo table: RegToken definition updated. |
| 06/07/2018 | 7.4.0 | 7.4.0:1 | Addition of options in System Management > Settings to allow administrators at specified access levels to view Card Number (plaintext) and AAV/CAVV/AEVV Updated description of Soft Launch List Addition of ActiveAccess Error Codes in Appendix A. |



Documentation change details

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| Introduction | | | |
| Installation
Guide > | | A11-Install_Maint_TechRef.pdf | |
| | Product Architecture | | |
| | External Components | | |
| | Installation | | |
| Administration UI > | | AA12-ActiveAccess Administration.pdf | |
| | About the Issuer Administration Server | AA12 / Added support for two-factor authentication for logging into the Administration UI | |
| | System Management > | AA12 | |
| | About System Management | AA12 | |
| | Settings | AA12 | |
| | ACS Settings | AA12 | |
| | Issuer Management | AA12 | |
| | - Group Management | AA12 | |
| | - Authentication Mgmt > | New Subsection | |
| | - About Authentication Management | ⊞ New | |



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| | Archive Management | AA12 |
| | Security | AA12 |
| | - Issuer Certificate | AA12 |
| | - AHS Certificate | AA12 |
| | - CAAS Certificate | AA12 |
| | - Directory Server Certificate | New |
| | - OOB Certificate | ─ New |
| | - Risk Certificate | ⊞ New |
| | - CA Certificate | AA12 |
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| | Utilities | AA12 |
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| | Rules | |
| | Registration- Amount Threshold- Merchant Blacklist | AA12 |
| | - Authentication - Soft Launch List Rule - Merchant Whitelist Rule - Merchant Watchlist - Location Watchlist - Location Watchlist Search Results - Domestic & International Transaction Amount Threshold - Stand-In Transaction Threshold | AA12 |



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| | - Settings | AA12 |
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| | Local Messaging > | |
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| | Card Loader | AA32-GPayments Card Loader.pdf |
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| | Remote Messaging | AA71-Remote System Messaging Specification.pdf |
| | Country and Currency Codes | AA71-Remote System Messaging Specification.pdf
Appendix A |
| | Sample Card | AA71-Remote System Messaging Specification.pdf
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Adapter | ⊞ New |



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| | Risk Engine Adapter | ⊞ New |
| Error Codes | | AA12 - Appendix A |
| Glossary | | AA12 |
| Document
Control> | | |
| | Document Control | AA12 |
| | Documentation Changes (this page) | ₩ New |
| Release Notes | | Previously included in the ActiveAccess package |
| Legal Notices | | AA12 |



Release Notes

ActiveAccess v8.0.1

[05/09/2019]

[EOL: Two years after the subsequent version's release date]

| Туре | Issue
Number | Description | Components |
|-------------|-----------------|---|--|
| ENHANCEMENT | #169 | EULA update | Issuer Administration |
| ENHANCEMENT | #208 | Grant scripts run automatically during setup | Setup |
| FIX | #172 | Device selection page isn't being shown | Access Control Server |
| FIX | #182 | Device registration fails when issuer has OOB device enabled | Access Control Server |
| FIX | #186 | Exception raised during Diners Club remote authentication | Access Control Server |
| FIX | #188 | ChallengeResponse failure in remote authentication | Access Control Server |
| FIX | #189 | Risk adapter configuration page issue | Issuer Administration |
| FIX | #193 | Generate RSA 2048 when the EC key generation fails | Setup, Issuer Administration,
Access Control Server |
| FIX | #196 | CardLoader setup.sh doesn't work | CardLoader |
| FIX | #203 | Upgrade issue from 7.4.2 to 8.0.0 with currency exchange rate | Setup |



| Туре | Issue
Number | Description | Components |
|------|-----------------|--|--|
| FIX | | Minor bug fixes, performance and security enhancements | Setup, Issuer Administration,
Access Control Server, Registration
Server |

ActiveAccess v8.0.0

[15/08/2019]

[05/09/2021]

| Туре | Issue
Number | Description | Components |
|-------------|-----------------|---|---|
| ENHANCEMENT | #93 | Enhancements to the Administration interface (MIA) | Issuer Administration |
| ENHANCEMENT | #5468 | Support incremental database schema changes in Setup | Setup |
| ENHANCEMENT | #5801 | Web Container Neutralization | Setup |
| ENHANCEMENT | #6659 | Support for 3-D Secure 2.1 | Setup, Issuer
Administration, Access
Control Server, Registration
Server |
| ENHANCEMENT | #6661 | 3DS2 Transaction search based on 3DS version | Issuer Administration |
| ENHANCEMENT | #6663 | Support for 3DS2 Risk Management | Issuer Administration,
Access Control Server |
| ENHANCEMENT | #6664 | Support 3DS2 Reporting | Issuer Administration |
| ENHANCEMENT | #7207 | Support for OOB Processing | Issuer Administration,
Access Control Server |
| ENHANCEMENT | #7383 | Substitute Triple DES encryption in ActiveAccess with stronger cryptography | Issuer Administration,
Access Control Server |



| Туре | Issue
Number | Description | Components |
|-------------|-----------------|---|---|
| ENHANCEMENT | #7845 | Removal of RuPay component | Setup, Issuer Administration |
| ENHANCEMENT | #7880 | Two-factor authentication for MIA login | Issuer Administration |
| ENHANCEMENT | #8082 | Simplify the setup process | Setup |
| ENHANCEMENT | #8310 | SPA2 algorithm for AAV generation | Setup, Issuer
Administration, Access
Control Server |
| FIX | #5425 | MIA allows exceeded password length and updates it successfully | Access Control Server |
| FIX | #7297 | Adminlog and AuditlogCollectorErrors have been updated to fix the errors that occurred during scheduler job | Access Control Server |
| FIX | #8160 | Authentication Exemption Rules for CAAS server | Access Control Server |

ActiveAccess v7.4.7 (Patch)

[23/03/2019]

[EOL: 15/08/2021]

| Access Control
Server | | |
|--------------------------|-------|--|
| FIX | #8147 | Fixed the purchAmount field to avoid the mismatch of value between PARes and PAReq |

ActiveAccess v7.4.6 (Patch)

[05/03/2019]

[EOL: 23/03/2021]



| Issuer Administration | | |
|-----------------------|-------|---|
| FIX | #8022 | Removing "+" sign when sending message via JMS. |
| Access Control Server | | |
| FIX | #8022 | Removing "+" sign when sending message via JMS. |

ActiveAccess v7.4.5 (Patch)

[01/02/2019]

[EOL: 05/03/2021]

| Access Control
Server | | |
|--------------------------|-------|---|
| ENHANCEMENT | #7843 | Displaying the Mobile Number on Remote Authentication pages. |
| ENHANCEMENT | #7893 | Adding PurchaseExponent attribute to the transaction table of requests to CAAS. |

ActiveAccess v7.4.4 (Patch)

[27/09/2018]

[EOL: 01/02/2021]

| Issuer
Administration | | |
|--------------------------|-------|---|
| FIX | #7748 | SMS delivery fails as ACS sends the phone number without the '+' sign to SMPP client. ACS now includes the + sign when sending SMS. |
| Access Control
Server | | |

#7748

FIX

client. ACS now includes the + sign when sending SMS.

SMS delivery fails as ACS sends the phone number without the '+' sign to SMPP



ActiveAccess v7.4.3 (Patch)

[18/09/2018]

[EOL: 27/09/2020]

| Issuer
Administration | | |
|--------------------------|-------|---|
| FIX | #7718 | Card Registration File Upload Errorcard file. Clearing the timer to prevent "java.lang.IllegalStateException: Timer already canceled" exceptions. |

ActiveAccess v7.4.2

[20/08/2018]

[EOL: 07/06/2020]

| Issuer Administration | | |
|-----------------------|-------|--|
| ENHANCEMENT | #7543 | ISO 3166 Update country details for Eswatini |
| ENHANCEMENT | #7654 | ISO 4217 Amendment Number 169 |

| Active Control Server | | |
|-----------------------|-------|--|
| ENHANCEMENT | #7543 | ISO 3166 Update country details for Eswatini |
| ENHANCEMENT | #7654 | ISO 4217 Amendment Number 169 |
| FIX | #7677 | CurrencyExchange error in ActiveAccess startup |

| Registration Server | | |
|---------------------|-------|-------------------------------|
| FIX | #7639 | Card Registration File Upload |

ActiveAccess v7.4.1 (Patch)

[08/08/2018]



[EOL: 20/08/2020]

| Issuer Administration | | |
|-----------------------|-------|--|
| FIX | #7557 | Verification code not received for Email device type |
| Active Control Server | | |
| FIX | #7482 | Custom Pages layout updates |
| FIX | #7557 | Verification code not received for Email device type |

ActiveAccess v7.4.0

[06/07/2018]

[EOL: 08/08/2020]

| Setup | | |
|-------------|-------|--|
| ENHANCEMENT | #6479 | External HSM setup - PKCS #11 Support |
| ENHANCEMENT | #7470 | Update key type for CVC2 process |
| ENHANCEMENT | #7471 | HMAC key length update for MC |
| ENHANCEMENT | #7477 | Support HSMs in which DES is not available |
| ENHANCEMENT | #7519 | Upgraded log4j from 1.2.13 to the 1.2.17 version |
| FIX | #7380 | Visa 3-D Secure Security Program - Encryption of CAVV/AAV values |
| FIX | #7518 | Updated GET_CARDS procedure |

| Issuer Administration | | |
|-----------------------|-------|---------------------------------------|
| ENHANCEMENT | #6479 | External HSM setup - PKCS #11 Support |
| ENHANCEMENT | #7359 | ISO 4217 Amendment Number 166 |



| Issuer Administration | | |
|-----------------------|-------|--|
| ENHANCEMENT | #7470 | Update key type for CVC2 process |
| ENHANCEMENT | #7471 | HMAC key length update for MC |
| ENHANCEMENT | #7477 | Support HSMs in which DES is not available |
| ENHANCEMENT | #7519 | Upgraded log4j from 1.2.13 to the 1.2.17 version |
| FIX | #7329 | Public key for the Issuer Group |
| FIX | #7380 | Visa 3-D Secure Security Program - Encryption of CAVV/AAV values |
| FIX | #7520 | Purge processor is already running error |

| Access Control
Server | | |
|--------------------------|-------|---|
| ENHANCEMENT | #6479 | External HSM setup - PKCS #11 Support |
| ENHANCEMENT | #7359 | ISO 4217 Amendment Number 166 |
| ENHANCEMENT | #7482 | Combining two device registration custom pages into one |
| ENHANCEMENT | #7519 | Upgraded log4j from 1.2.13 to the 1.2.17 version |
| FIX | #7047 | Updating the path of caaswarning.properties to keep it unchanged during the upgrade process |
| FIX | #7380 | Visa 3-D Secure Security Program - Encryption of CAVV/AAV values |
| FIX | #7518 | Updated GET_CARDS procedure |

| Enrolment Server | | |
|------------------|-------|--|
| ENHANCEMENT | #6479 | External HSM setup - PKCS #11 Support |
| ENHANCEMENT | #7519 | Upgraded log4j from 1.2.13 to the 1.2.17 version |



| Registration Server | | |
|---------------------|-------|--|
| ENHANCEMENT | #6479 | External HSM setup - PKCS #11 Support |
| ENHANCEMENT | #7519 | Upgraded log4j from 1.2.13 to the 1.2.17 version |

ActiveAccess v7.3.3 (Patch)

[25/05/2018]

[EOL: 06/07/2018]

| Access Control Server | | |
|-----------------------|-------|--|
| FIX | #7402 | Incorrect JCB transaction status with 'Card Not Found' from CAAS |

ActiveAccess v7.3.2 (Patch)

[29/03/2018]

[EOL: 25/05/2020]

| Access Control Server | | |
|-----------------------|-------|----------------------------------|
| FIX | #7160 | Remove error on missing MD field |

ActiveAccess v7.3.1 (Patch)

[20/02/2018]

[EOL: 29/03/2020]

| Access Control Server | | |
|-----------------------|-------|---|
| FIX | #7116 | JCB VEReq with Browser.deviceCategory=1 |



ActiveAccess v7.3.0

[29/01/2018]

[EOL: 20/02/2020]

| Setup | | |
|-------|-------|--|
| FIX | #6334 | Correction to the casing for SafeNet in setup/sample.ini |
| FIX | #6338 | Remove WebSphere application server option from setup |
| FIX | #6986 | Decryption error during notification report process |
| FIX | #7052 | Notification reports - java.lang.NullPointerException |

| Issuer
Administration | | |
|--------------------------|-------|--|
| FIX | #6406 | Exception thrown when clicking Back on Matched Rule Details page |
| FIX | #6244 | Update the default value for AMEX 'Maximum forgot password attempts |
| FIX | #6620 | MIA incorrectly searches the WEB-INF folder for cacerts, instead of the config folder |
| FIX | #6645 | Cards do not get assigned to the most detailed BIN |
| FIX | #7052 | Notification reports - java.lang.NullPointerException |
| ENHANCEMENT | #4131 | Authentication pages compatibility with mobile devices |
| ENHANCEMENT | #5935 | New authentication method Email OTP |
| ENHANCEMENT | #6252 | ISO 3166 Update country details for Moldova and Gambia |
| ENHANCEMENT | #6308 | Addition of a message on MIA's blank screen for admin users of Issuers with an invalid license key |
| ENHANCEMENT | #6377 | Option to defer application of Setting changes to next server restart |



| Issuer
Administration | | |
|--------------------------|---|---|
| ENHANCEMENT | #6463 | ISO 4217 Currency Code Service - Amendment number 163 |
| ENHANCEMENT | #6527 | Mastercard Identity Check Support |
| ENHANCEMENT | #6688 | JCB Attempt process |
| ENHANCEMENT | #6727 | Security enhancements |
| ENHANCEMENT | #6765 | All PANs must now comply with the Luhn algorithm and pass a Mod-10 check |
| ENHANCEMENT | #6773 | ISO 4217 Amendment Number 164 |
| ENHANCEMENT | #6823 | Rules Settings challenge option for 'not exempted authentications' as per IDC requirements |
| ENHANCEMENT | #6981 | ISO 4217 Amendment Number 165 |
| | | |
| Access Control
Server | | |
| | #5686 | Proof of Attempt = Disabled still displays the opt-out link during ADS |
| Server | #5686
#6244 | Proof of Attempt = Disabled still displays the opt-out link during ADS Update the default value for AMEX 'Maximum forgot password attempts |
| Server | | |
| Server FIX FIX | #6244 | Update the default value for AMEX 'Maximum forgot password attempts PAReq is not logged by ACS when the Authentication Exemption Rules are |
| FIX FIX | #6244
#6417 | Update the default value for AMEX 'Maximum forgot password attempts PAReq is not logged by ACS when the Authentication Exemption Rules are used |
| FIX FIX FIX | #6244
#6417
#6687 | Update the default value for AMEX 'Maximum forgot password attempts PAReq is not logged by ACS when the Authentication Exemption Rules are used Updating error details wording to match 3DS v1.0.2 document |
| FIX FIX FIX FIX | #6244
#6417
#6687
#6693 | Update the default value for AMEX 'Maximum forgot password attempts PAReq is not logged by ACS when the Authentication Exemption Rules are used Updating error details wording to match 3DS v1.0.2 document Errors related to JCB compliance test |
| FIX FIX FIX FIX FIX | #6244
#6417
#6687
#6693
#7037 | Update the default value for AMEX 'Maximum forgot password attempts PAReq is not logged by ACS when the Authentication Exemption Rules are used Updating error details wording to match 3DS v1.0.2 document Errors related to JCB compliance test Authentication Exemption rules do not apply during transactions |



| Access Control
Server | | |
|--------------------------|-------|---|
| ENHANCEMENT | #6252 | ISO 3166 Update country details for Moldova and Gambia |
| ENHANCEMENT | #6463 | ISO 4217 Currency Code Service - Amendment number 163 |
| ENHANCEMENT | #6527 | Mastercard Identity Check Support |
| ENHANCEMENT | #6652 | Compliance with JCB J/Secure |
| ENHANCEMENT | #6688 | JCB Attempt process |
| ENHANCEMENT | #6689 | Addition of new data elements in JCB Authentication page and updates to the masking format of PAN |
| ENHANCEMENT | #6691 | Remove AHS support for JCB |
| ENHANCEMENT | #6692 | Multi-language support of JCB pages |
| ENHANCEMENT | #6727 | Security enhancements |
| ENHANCEMENT | #6765 | All PANs must now comply with the Luhn algorithm and pass a Mod-10 check |
| ENHANCEMENT | #6773 | ISO 4217 Amendment Number 164 |
| ENHANCEMENT | #6823 | Rules Settings challenge option for 'not exempted authentications' as per IDC requirements |
| ENHANCEMENT | #6981 | ISO 4217 Amendment Number 165 |
| Enrolment Server | | |
| ENHANCEMENT | #6705 | The effect of 'Uses confirmation' field in Enrolment |
| ENHANCEMENT | #6727 | Security enhancements |



| Registration Server | | |
|---------------------|-------|---|
| FIX | #6396 | CardLoader error message does not correspond with Registration logs |
| ENHANCEMENT | #5935 | New authentication method Email OTP |
| ENHANCEMENT | #6527 | Mastercard Identity Check Support |
| ENHANCEMENT | #6727 | Security enhancements |

ActiveAccess v7.2.1

[20/04/2017]

[EOL: 29/01/2020]

Setup v7.2.1

Issuer Administration v7.2.1

Access Control Server v7.2.1

Enrolment Server v7.2.1

Registration Server v7.2.1

| Setup | | |
|-------------|-------|---|
| ENHANCEMENT | #6289 | Encode hsmpassword parameter (Base64) in RuPay config file. |

| Issuer Administration | | |
|-----------------------|-------|---|
| FIX | #4584 | PCI Key Retiring utility performance issue. |
| FIX | #6182 | Certificate creation failure. |
| ENHANCEMENT | #6289 | Encode hsmpassword parameter (Base64) in RuPay config file. |



| Access Control Serve | er | |
|----------------------|-------|--|
| FIX | #4584 | PCI Key Retiring utility performance issue. |
| FIX | #6186 | Error while processing a custom page. |
| ENHANCEMENT | #4217 | Addition of JCB XSL pages into the standard release package. |
| ENHANCEMENT | #6289 | Encode hsmpassword parameter (Base64) in RuPay config file. |
| | | |
| Enrolment Server | | |
| ENHANCEMENT | #6289 | Encode hsmpassword parameter (Base64) in RuPay config file. |
| | | |
| Registration Server | | |
| ENHANCEMENT | #6289 | Encode hsmpassword parameter (Base64) in RuPay config file. |

ActiveAccess v7.2.0

[22/12/2016]

[EOL: 20/04/2019]

Setup v7.2.0

Issuer Administration v7.2.0

Access Control Server v7.2.0

Enrolment Server v7.2.0

Registration Server v7.2.0

Rupay v1.1.0

Card Loader 1.1.41



| Setup | | |
|--------------------------|-------|--|
| SUPPORT: | #5806 | nCipherKM.jar being removed in installation |
| ENHANCEMENT: | #5474 | Support silent mode installation |
| ENHANCEMENT: | #5939 | Encode HSM_PASSWORD parameter (Base64) in ActiveAccess config files |
| ENHANCEMENT: | #5574 | Remove usage of deprecated JRE classes |
| FEATURE: | #5546 | Supports Amex Safekey compliance (rev 2016) |
| Issuer
Administration | | |
| FIX: | #5525 | Encrypt critical data in case of registration failure |
| FIX: | #5899 | Archive history details page display error |
| SUPPORT: | #5729 | Visa Intermediate SHA2 CA cert added for new installations |
| ENHANCEMENT: | #5574 | Remove usage of deprecated JRE classes |
| ENHANCEMENT: | #5740 | Exclusion of third party XML parser libraries (JAXP libraries),Third party XML parser libraries (JAXP libraries) excluded and replaced with JDK JAXP libraries |
| ENHANCEMENT: | #5829 | Remove restriction on using previous CAVV key |
| ENHANCEMENT: | #5874 | Support p7 and der files when installing certificates |
| ENHANCEMENT: | #5939 | Encode HSM_PASSWORD parameter (Base64) in ActiveAccess config files |
| FEATURE: | #5546 | Supports Amex Safekey compliance (rev 2016) |
| Access Control
Server | | |
| FIX: | #4584 | Improve PCI Key Retiring utility performance* |



| Access Control
Server | | |
|--------------------------|-------|--|
| FIX: | #5965 | CAAS Card Auth Data format not found error. The error message is logged in ACS logs during a remote transaction regardless of success of the transaction. |
| FIX: | | Various spelling corrections in application and XSL files |
| SUPPORT: | #5748 | Error in restarting Number of authentication exemptions and Sum of exempted authentications' amounts when empty cardholder name is received from CAAS server |
| SUPPORT: | #5785 | Unable to establish connection to CAAS |
| SUPPORT: | #5903 | Optimise GET_CARDS procedure |
| SUPPORT: | #5952 | Update American Express SafeKey logo |
| ENHANCEMENT: | #5054 | Support SafeNet Network HSM (Cloud HSM/Luna SA) |
| ENHANCEMENT: | #5546 | Compliance with American Express Safekey (revision 2016) |
| ENHANCEMENT: | #5574 | Remove usage of deprecated JRE classes |
| ENHANCEMENT: | #5740 | Exclusion of third party XML parser libraries (JAXP libraries),Third party XML parser libraries (JAXP libraries) excluded and replaced with JDK JAXP libraries |
| ENHANCEMENT: | #5939 | Encode HSM_PASSWORD parameter (Base64) in ActiveAccess config files |
| FEATURE: | #5546 | Supports Amex Safekey compliance (rev 2016) |
| Enrolment
Server | | |
| FIX: | | Various spelling corrections in application and XSL files |
| ENHANCEMENT: | #5574 | Remove usage of deprecated JRE classes |



| Enrolment
Server | | | |
|------------------------|---|--|--|
| ENHANCEMENT: | #5740 | Exclusion of third party XML parser libraries (JAXP libraries), Third party XML parser libraries (JAXP libraries) excluded and replaced with JDK JAXP libraries | |
| ENHANCEMENT: | #5939 | Encode HSM_PASSWORD parameter (Base64) in ActiveAccess config files | |
| Registration
Server | | | |
| SUPPORT: | #5767 | Changing request Id length in notification request to be at most 1024 characters | |
| ENHANCEMENT: | #5574 | Remove usage of deprecated JRE classes | |
| ENHANCEMENT: | #5740 | #5740 Exclusion of third party XML parser libraries (JAXP libraries),Third party XML parser libraries (JAXP libraries) excluded and replaced with JDK JAXP libraries | |
| ENHANCEMENT: | #5939 Encode HSM_PASSWORD parameter (Base64) in ActiveAccess config files | | |
| RuPay | | | |
| FIX: #5482 | Search b | by Error Code field in Transaction screens | |
| FIX: #6025 | - | RuPay verifyRegistration did not forward contextBlob to initAuthentication. contextBlob now included | |
| FIX: #6026 | Support | Support authType in addition to authTypeSupList in RuPay | |
| Card Loader | | | |
| FIX: | #5779 | CardLoader now supports Java 8 | |
| SUPPORT: | #5767 | Changing request Id length in notification request to be at most 1024 characters | |
| ENHANCEMENT: | #5574 | Remove usage of deprecated JRE classes | |



ActiveAccess v7.1.4

[03/10/2016]

[EOL: 22/12/2018]

Setup v7.1.4

Issuer Administration v7.1.4

Access Control Server v7.1.4

Enrolment Server v7.1.4

Registration Server v7.1.4

| Issuer
Administration | | |
|--------------------------|-------|---|
| Support | #5703 | Database connectivity issue |
| Bug | #5720 | ActiveAccess 7.1.4 beta 5 installation error: no record found |
| Enhancement | #5715 | Version class in ActiveAccess should be filtered in Maven |
| Support | #5664 | Login issue with remote issuers' business and helpdesk admins without access to rules |
| Support | #5548 | FileNotFoundException: auditconfig.properties changed from an Error to a Warning |
| Bug | #5745 | CSR Export Issue |

| Access Control Server | | |
|-----------------------|-------|------------------------------------|
| Support | #5703 | Database connectivity issue |
| Bug | #5689 | CAAS: ISO currency & country codes |
| Enhancement | #5523 | Risk Based Authentication |
| Bug | #5674 | DB Warning Logger in ACS log file |



| Access Control Server | | |
|-----------------------|-------|---|
| Enhancement | #5715 | Version class in ActiveAccess should be filtered in Maven |
| Enhancement | #5688 | Copyright of XSL pages |
| Bug | #5685 | AHS logging PATransReq twice in the acs log file |
| Support | #5646 | Merchant URL Must be URL pattern |
| Support | #5634 | PARes with parameter SSID to MPI |
| Support | #5616 | A null priSec value results in NullPointerException |
| Enhancement | #5596 | Support for unmasked CH.fullPAN in PATRANSReq messages |

| Enrolment Server | | |
|---------------------|-------|---|
| Enhancement | #5715 | Version class in ActiveAccess should be filtered in Maven |
| Registration Server | | |

| Enhancement | #5715 | Version class in ActiveAccess should be filtered in Maven |
|-------------|-------|---|

| Setup | | |
|-------------|-------|---|
| Bug | #5735 | RuPay tables missing in database after installation |
| Enhancement | #5715 | Version class in ActiveAccess should be filtered in Maven |
| Bug | #5678 | RuPay module being installed without being selected (Centos 6.x) |
| Bug | #5562 | No rupay WAR files found in tomcat/webapps when installing AA with Rupay option |

ActiveAccess v7.1.3

[03/09/2016]

[EOL: 03/10/2018]



Setup v7.1.3

Issuer Administration v7.1.3

Access Control Server v7.1.3

Enrolment Server v7.1.3

Registration Server v7.1.3

| Access Control Server | | |
|-----------------------|-------|------------------------------|
| Bug | #5619 | SignatureMethod must be SHA1 |

No changes in other components



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