

Product Architecture




This section describes the product architecture and its logical components. Understanding the logical units of the application should help you with designing the actual implementation of the product to meet the deployment and security requirements of your organisation.

In this guide we use the term **server** for any software component that can be accessed via a client application, in a standard client/server architecture. To avoid any confusion we use the term **physical server** when referring to the hardware itself.

Internal Components

☰ Main Components

The main components of ActiveAccess are:

- [Access Control Server](#)
 - Verify Enrolment Server
 -  Payer Authentication Server
 - Authentication Server
 - Challenge Server
 - RMI Server
 - AHS Client
 - Rules Engine
 - External Messaging Adapter
 - Risk Engine Adapter
 - Out of Band Authentication Adapter
 -  Decoupled Authentication Adapter
- [Administration Server](#)
- [Registration Server](#)
-  [Whitelisting Server](#)
- [Database Server](#)

Server components are implemented as servlets that can be deployed to any one of the commercial application servers supported by ActiveAccess.

Access Control Server (ACS)

ACS is the authentication component of the system. It provides a facility allowing communication and messaging with other authentication components during an authentication.

ActiveAccess ACS supports the **3-D Secure protocol**.

3-D Secure 1 is an authentication standard for online eCommerce transactions introduced by Visa and adopted by Mastercard, JCB, American Express and Diners Club International.

3-D Secure 2 is an update of the 3-D Secure 1 authentication standard, created by EMVCo to support app-based authentication and integration with digital wallets, as well as a frictionless authentication flow.

Verify Enrolment Server (3DS1)

Default port: Determined by the application server

Default path: Refer to the table in [Access Control Server](#)

Protocol: HTTP/HTTPS

Inbound connections: Directory server

Outbound connections: Database server

Other requirements: Must be able to access the HSM

The verify enrolment server is used in the 3-D Secure 1 processes. The verify enrolment server consumes VEReq messages and generates VERes messages accordingly.

Note that any changes to the fully qualified URL of the verify enrolment server must be reported to the 3-D Secure 1 providers in order to update the corresponding directory servers.

Payer Authentication Server (3DS1)

Default port: Determined by the application server

Default path: /acs/pa

Protocol: HTTP/HTTPS

Inbound connections: Cardholder's browser

The payer authentication server is used for cardholder authentication in the 3-D Secure process. The cardholder is redirected to the authentication server by the merchant plug-in during the 3-D Secure process. The authentication pages are stored in the database and served via the authentication server itself. The payer authentication server is responsible for the processing of the PAREq and generation of PAREs message pair in the 3-D Secure 1 process.

Authentication Server (3DS2)

Default port: Determined by the application server

Default path: Refer to the table in [Access Control Server](#)

Protocol: HTTP/HTTPS

Inbound connections: Directory server

Outbound connections: Database server, Directory server

Other requirements: Must be able to access the HSM

The authentication server is used for cardholder authentication in 3-D Secure 2 process. The authentication server consumes AReq messages and generates ARes messages accordingly. For each AReq that is received, if challenge is required, the authentication server generates and RReq message to notify the directory server of the result of challenge, then consumes and RRes message in response to RReq.

Note that any changes to the fully qualified URL of the authentication server must be reported to the 3-D Secure 2 providers in order to update the corresponding directory servers.

Challenge Server (3DS2)

Default port: Determined by the application server

Default path: /acs/ca

Protocol: HTTP/HTTPS

Inbound and outbound connections: Cardholder's browser, 3DS SDK app

The Challenge server is used in the 3-D Secure 2 process. The challenge server consumes CReq messages and generates CRes messages accordingly.

RMI Server

Default port: 4241 and 4242

Protocol: JRMP (TCP) | ¹

Inbound connections: Other ActiveAccess RMI servers, MIA

Outbound connections: Database server, Other ActiveAccess RMI servers

Other requirements: Must be able to access the HSM

The RMI server is used to synchronise a cluster of ActiveAccess servers. This is mainly to notify other ActiveAccess servers of changes in the settings of the cluster or to apply settings to multiple ActiveAccess servers from a single ActiveAccess administration interface.

RMI server is used when ActiveAccess components are deployed on multiple servers or multiple ActiveAccess servers are used for load balancing.

AHS Client (3DS1)

Default port: N/A

Default path: N/A

Protocol: HTTPS

Inbound connections: None

Outbound connections: Authentication history server, Database server

Other requirements: Must be able to access the HSM

In accordance with 3-D Secure 1 specification, a copy of transaction response (PARes) must be sent to the card scheme's designated server known as the Authentication History Server (AHS). The AHS client is responsible for sending the transaction record (PATransReq) to the designated AHS server.

Note that some 3-D Secure providers may not require or support an AHS.

Rules Engine

Default port: None

Default path: None

Protocol: None

Inbound connections: None

Outbound connections: Database server

Other requirements: None

The Rules engine is used for applying business rules for checking authentication requests processed or transparently authenticated by local or remote authentication servers.

Authentication exemption rules for local and remote authentication servers are:

- Soft Launch List
- Merchant Whitelist
- Merchant Watchlist
- Location Watchlist
- Domestic & International Transaction Amount Threshold
- Stand-In Transaction Threshold (remote authentication model)

Registration enforcement rules for local authentication servers are:

- Amount Threshold
- Merchant Blacklist

External Messaging Adapter

Default port: N/A

Default path: N/A

Protocol: HTTP/HTTPS

Inbound connections: N/A

Outbound connections: Centralised Authentication and Authorisation Service (CAAS), Database server

Other requirements: Must be able to access the HSM

The external messaging adapter manages the messaging requirements for connecting ActiveAccess to the issuers' remote systems.

Risk Engine Adapter

Default port: N/A

Default path: N/A

Protocol: N/A

Inbound connections: N/A

Outbound connections: RESTful RBA adapters

Other requirements: N/A

The Risks engine is used for applying risk rules for checking authentication requests processed or transparently authenticated by local or remote authentication servers. In an authentication, a challenge may be necessary because the transaction is deemed high-risk, e.g. above certain thresholds.

For risk assessment, ACS sends/receives proper data elements to/from risk assessment systems via middleware.

There are two types of risk adapters available:

- Native API version of Risk Adapter
- Restful API version of Risk Adapter

Out of Band (OOB) Authentication Adapter

Default port: N/A

Default path: N/A

Protocol: N/A

Inbound connections: N/A

Outbound connections: RESTful OOB adapters

Other requirements: N/A

The OOB is challenge activity that is completed outside of, but in parallel to, the 3-D Secure flow.

ActiveAccess performs Out Of Band (OOB) challenges through OOB adapters. OOB adapters connect the existing OOB authentication system with ActiveAccess. During 3-D Secure 2 challenge flows where OOB authentication is required, the ACS will trigger the external OOB process, perform interactions with the cardholder via the OOB adapters.

For this purpose, the ACS communicates with the existing OOB system via a middleware. This middleware is the OOB adapter. The OOB adapter can either be loaded locally by the ACS (Native API) or communicated with via HTTP calls (REST API).

+ Decoupled Authentication Adapter

Default port: N/A

Default path: N/A

Protocol: N/A

Inbound connections: N/A

Outbound connections: RESTful Decoupled adapters

Other requirements: N/A

Decoupled Authentication is authentication activity that is completed outside of, but in parallel to, the 3-D Secure flow. ActiveAccess performs Decoupled Authentication challenges through Decoupled Authenticator adapters. Decoupled Authenticator adapters connect the existing Decoupled authentication system with ActiveAccess. During 3-D Secure 2 flows where Decoupled authentication is required, the ACS will trigger the external Decoupled Authenticator process, and perform interactions with the cardholder via the Decoupled Authenticator adapters. For this purpose, the ACS communicates with the existing Decoupled Authentication system via a middleware. This middleware is the Decoupled Authenticator adapter. The Decoupled Authenticator adapter can either be loaded locally by the ACS (Native API) or communicated with via HTTP calls (REST API).

Administration Server

The management and reporting utility for the system is the administration server used by administrative users.

Default port: Determined by the application server

Default path: /mia/

Protocol: HTTP/HTTPS

Inbound connections: Administrator browser (Issuer's admin staff and internal admin staff)

Outbound connections: Database server, Registration Server, RMI Server

Other requirements: Must be able to access the HSM

The administration server is used by technical and issuer and helpdesk staff who are in charge of operations, maintenance and customer support. The administration server allows access to various system and business settings, and cardholder information, transactions, reports and logs.

Registration Server

A web service providing issuers the ability to enrol cardholders in real-time with the authentication schemes.

Default port: Determined by the application server

Default path: /registration/

Protocol: HTTP/HTTPS

Inbound connections: Issuer's registration software (such as Card Loader utility), Administration server

Outbound connections: Database server

Other requirements: Must be able to access the HSM

The registration API is used by issuers to register cardholders (pre-registration and final registration models).

Whitelisting Server

A web service providing issuers the ability to see/remove cardholders' whitelisted merchants in real-time via the Administration Server and add cardholder's whitelisted merchants in real-time via the Access Control Server.

Default port: Determined by the application server

Default path: /whitelisting/wl/api/merchant/

Protocol: HTTP/HTTPS

Inbound connections: Issuer's software (such as issuer's website), Administration server

Outbound connections: Database server

Other requirements: Must be able to access the HSM

The Whitelist API is used by ActiveAccess and Issuers to manage cardholders' whitelisted merchants.

Database Server

Default port: 1521

Default path: N/A

Protocol: TCP

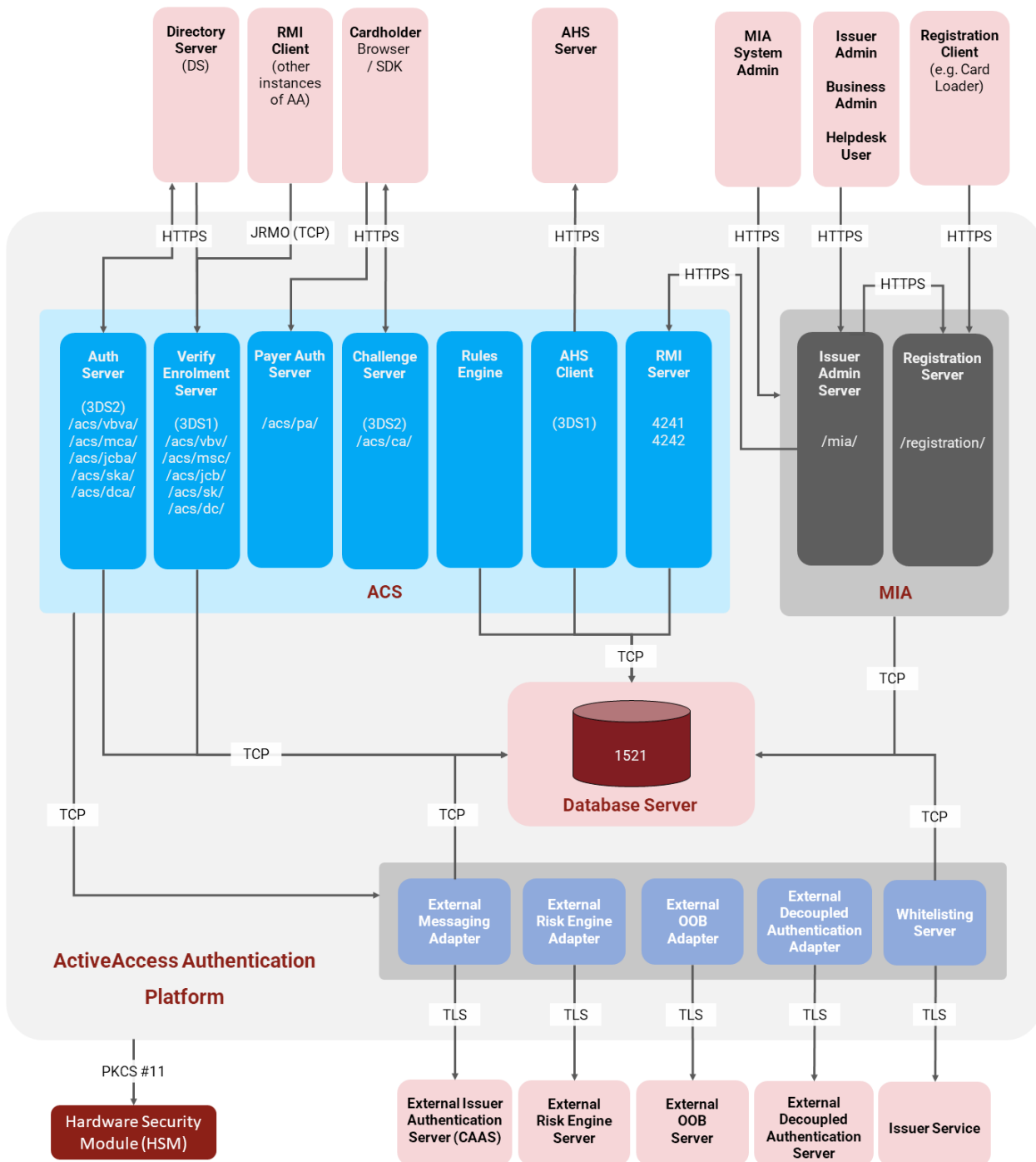
Inbound connections: Authentication server, Verify enrolment server, RMI Server, AHS Client, Rule Engine, External Messaging Adapter, Administration server, Registration server.

Outbound connections: None

Other requirements: None

Logical View of ActiveAccess

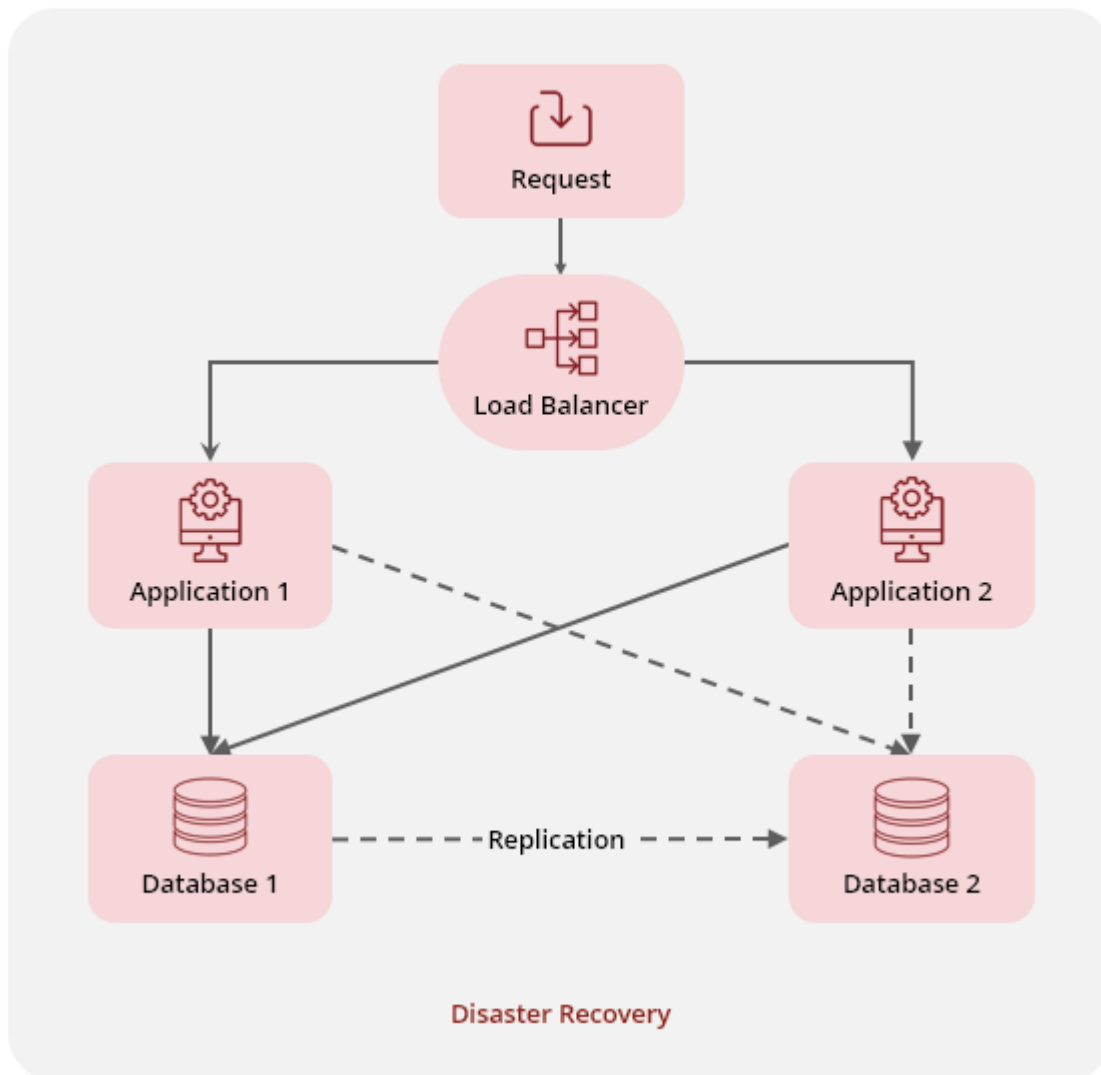
The following diagram displays the logical view of ActiveAccess with the components explained earlier on this page.



Production Setup with Disaster Recovery

In this setup, the ActiveAccess application is setup on Application 1 and Application 2 servers, using one database server (Database 1). Requests sent to the ACS will be forwarded to the Application servers (Application 1 and Application 2), as configured by the load balancer.

Both Application 1 and Application 2 servers will use Database 1. Database 2 is a replication of Database 1, and is on stand-by. If connection to Database 1 fails, Database 2 will be used.



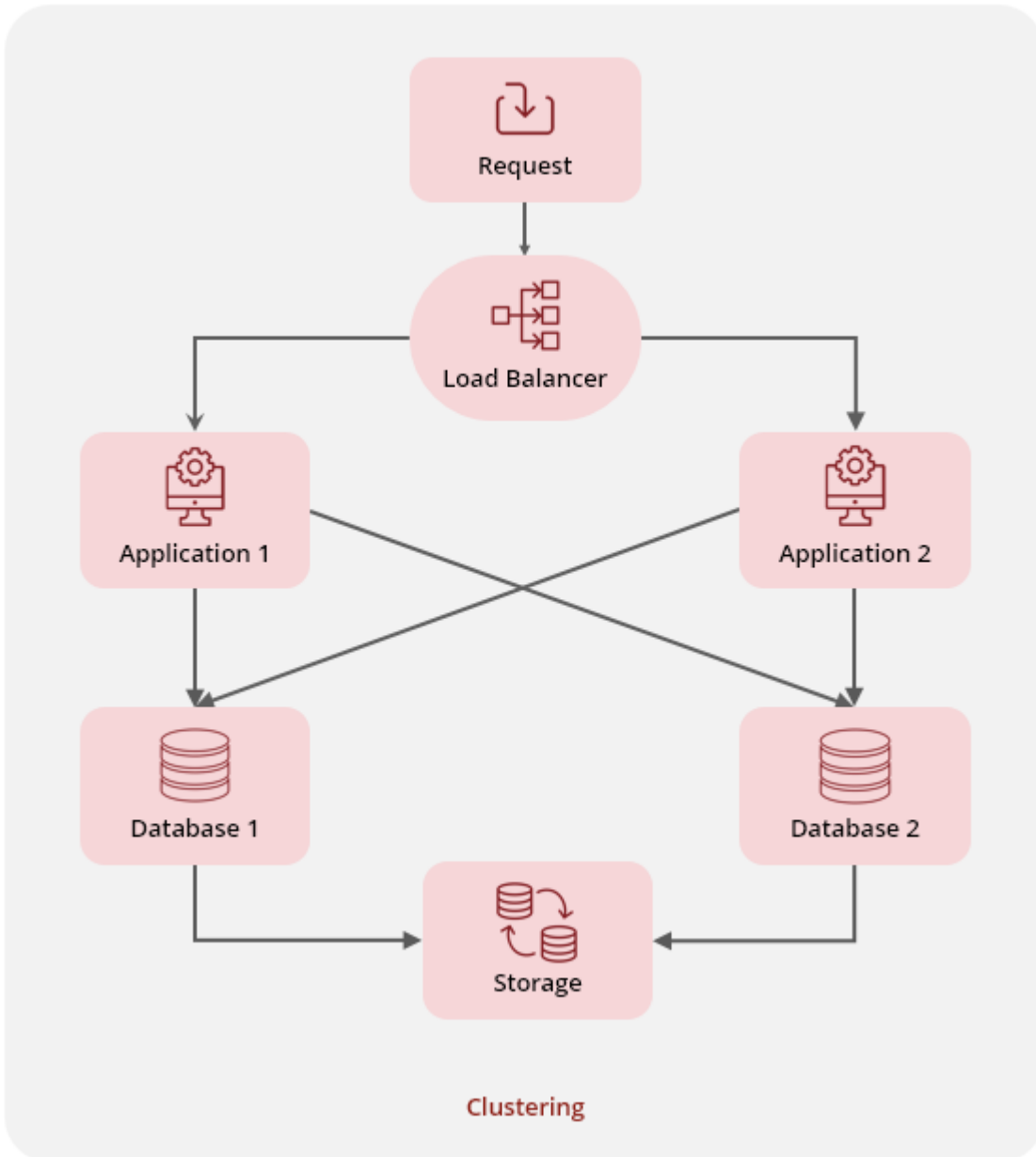
Production Setup with Clustering

In this setup, the ActiveAccess application is setup on Application 1 and Application 2 servers, using two database servers (Database 1 and Database 2) which share the same storage. Requests sent to the ACS will be forwarded to the Application servers (Application 1 and Application 2), as configured by the load balancer.

All application and database servers are active. Application 1 and Application 2 servers will use Database 1 and Database 2 based on the configurations and their ability to establish a connection.

i Info

Oracle RAC can be used for the database clustering.



Hardware and Software Requirements

Minimum Hardware Requirements

Processor

- Intel® Xeon® X5550, or equivalent
- 16GB RAM

Minimum Hardware Requirements

- Hardware Security Module (HSM)**
- PKCS #11 enabled General Purpose HSMs (with the latest PKCS #11 driver as recommended by the HSM vendor)
 - Sun JCE (for testing purposes)

Software Requirements

- JDK**
- Oracle JDK 1.8
 - OpenJDK 1.8
-
- Application Server**
- Apache Tomcat 8
 - Apache Tomcat 9
 - Oracle WebLogic Server 14c (14.1.1.0.0)
-
- Database**
- Oracle 11g
 - Oracle 11gXE
 - Oracle 12c
 - Oracle 19c

-
1. A proprietary wire-level protocol designed by Sun Microsystems to transport Java RMI. JRMP serves the same function as IIOP, but also supports object passing. It is also referred as the "RMI transport protocol" for Java

External Components

Installation of External Components

External Components

- [Java Development Kit \(JDK\)](#)
- [Hardware Security Module](#)
- [Application Server](#)
- [Oracle Database](#)
- [Two-Factor Authentication Devices](#)

Java Development Kit (JDK)

JDK can be freely downloaded from Sun Microsystems at <http://java.sun.com/>. JDK must be installed with the default settings. Follow the on screen installation instructions for the JDK to complete the installation.

ActiveAccess requires the installation of Oracle JDK 1.8 or OpenJDK 1.8. It is generally advisable that you install the latest minor version within a supported JVM.

You must only use one of the specified JVM versions. This is referred to as a compatible JDK in this document. Note that a newer version of JVM may not necessarily be backward compatible.

Hardware Security Module

ActiveAccess supports PKCS #11 Cryptographic API. For installation of the HSM module, please refer to your HSM manual.

Note

For testing purposes, you can use the Sun JCE provider, available during setup.

Installing the HSM module

- The path of the PKCS #11 library file will need to be specified during ActiveAccess installation.
- The slot number must be selected during ActiveAccess installation.
- The PIN created during the installation of your HSM will be required during ActiveAccess installation.

Thales e-Security HSM

If you are using a Thales e-Security nShield HSM, the environment variable `CKNFAST_OVERRIDE_SECURITY_ASSURANCES` is required to be set for key generation.

LINUX

- Edit the startup file (`~/.bashrc`)
- Add the following to the end of the file:

```
export KKNFAST_OVERRIDE_SECURITY_ASSURANCES=all
```
- Save and close the file.
- Load the startup file using the following:

```
\$ source ~/.profile
```
- Verify that the variable is set by executing the following:

```
echo \${CKNFAST_OVERRIDE_SECURITY_ASSURANCES}
```

The output should be `all` .

WINDOWS

- In your system's **Control Panel\System and Security\System**, click on **Advanced system settings** link.
- Click **Environment Variables....**
- In the System variables section, create a new environment variable:
Variable name: `CKNFAST_OVERRIDE_SECURITY_ASSURANCES`
Variable value: `all`
- To verify if the variable has been set, open a new Command Prompt window, and execute the following:

```
echo %CKNFAST_OVERRIDE_SECURITY_ASSURANCES%
```

The output should be `all` .

Application Server

ActiveAccess supports Java Application Servers compatible with Servlet specification 3.0. Install your preferred compatible application server with default settings. Please follow the installation instructions from the application server's documentation.

Tomcat

Tomcat is freely available for download from Apache at <http://tomcat.apache.org/>.

- Install Tomcat with default settings. Please follow Tomcat installation instructions from the Tomcat documentation.
- Tomcat HTTP server starts on port 8080 by default. In order to change the port settings edit **Tomcat/conf/server.xml**
- Update the following section in the configuration for this port number:

```
<!-- ===== Connectors ===== -->
<!-- Normal HTTP Connector -->
<Connector executor="tomcatThreadPool"
port="8080" protocol="HTTP/1.1"
connectionTimeout="20000"
redirectPort="8443" />
```

Note

If you are using Tomcat 7, the following `init-param` should be added to the JSP servlet tag (`<servlet-name>jsp</servlet-name>`)

```
<init-param>
  <param-name>compilerSourceVM</param-name>
  <param-value>1.7</param-value>
</init-param>
<init-param>
  <param-name>compilerTargetVM</param-name>
  <param-value>1.7</param-value>
</init-param>
```

Configuring SSL

ActiveAccess requires that communication between client and server uses HTTPS. Configure the application server to run in HTTPS mode.

☰ Tomcat SSL Configuration

To configure Tomcat running in HTTPS mode, please refer to the following:

For Tomcat 8.0+: <https://tomcat.apache.org/tomcat-8.0-doc/ssl-howto.html>

For Tomcat 8.5+: <https://tomcat.apache.org/tomcat-8.5-doc/ssl-howto.html>

Please note Tomcat supports two modes of SSL Connectors: JSSE and APR, for which the configuration is different; please refer to the relevant configuration sections in the above Tomcat documentation, for details.

An example configuration for JSSE SSL configuration taken from the Tomcat 8.0 documentation is provided below:

Create KeyStore (using Java Keytool):

- To create a new Java KeyStore from scratch, containing a single self-signed Certificate, execute the following from a terminal command line:

WINDOWS

```
"%JAVA_HOME%\bin\keytool" -genkey -alias appserver -keyalg RSA
```

UNIX

```
\$JAVA_HOME/bin/keytool -genkey -alias appserver -keyalg RSA
```

(The RSA algorithm should be preferred as a secure algorithm, and this also ensures general compatibility with other servers and components.)

This command will create a new file, in the home directory of the user under which you run it, named ".keystore". To specify a different location or filename, add the `-keystore` parameter, followed by the complete pathname to your KeyStore file, to the keytool command shown above. For example:

WINDOWS

```
"%JAVA_HOME%\bin\keytool" -genkey -alias appserver -keyalg RSA
```

```
\-keystore \path\to\my\keystore
```

UNIX

```
\$JAVA_HOME/bin/keytool -genkey -alias appserver -keyalg RSA
```

```
\-keystore /path/to/my/keystore
```

You will also need to reflect this new location in the application server's configurations, for example, `server.xml` configuration file for Tomcat:

Example

Configure the Tomcat connector (in the file `TOMCAT_HOME/conf/server.xml`)

```
<!-- Define a SSL Coyote HTTP/1.1 Connector on port 8443 -->
<Connector
  protocol="org.apache.coyote.http11.Http11NioProtocol"
  port="8443" maxThreads="200"
  scheme="https" secure="true" SSLEnabled="true"
  keystoreFile="${user.home}/.keystore" keystorePass="changeit"
  clientAuth="false" sslProtocol="TLS"/>
```

Bypassing the HSM Password Dialog Box

ActiveAccess displays a dialog box for HSM password entry, when you start Tomcat.

- In order to suppress the dialog box and enter the password in the console, add the following parameter to `JAVA_OPTS` in the `catalina.sh` file of Tomcat:

```
\-Dconsole
```

- *Or alternatively*, you can directly bypass the HSM password by adding the following line in **activeaccess.properties** configuration file (located in the `AA_HOME` directory created during installation):

```
HSM_PASSWORD= < password >
```

Replace `< password >` with the base64 encoded format of your HSM password.

Base64 encoding

For base64 encoding, the following command can be used in Ubuntu Linux to generate a base64 encoded string with default settings:

```
echo -n 'YourPlainTextPassword' | base64
```

The output of the command above will be:

```
WW91c1BsYWluVGV4dFBhc3N3b3Jk
```

Increasing the Java Heap Size

JRE allocates 64MB of heap memory to a Java process by default. It is quite often necessary to increase this rather conservative memory allocation for server applications.

Tomcat

To increase the heap size available to Tomcat add the following line to catalina.bat (Windows) or catalina.sh (UNIX):

```
set JAVA_OPTS= -Xms<min_heap> -Xmx<max_heap>
```

For example in order to set the minimum heap size to 256MB and allow the heap to grow up to 512MB use:

```
set JAVA_OPTS= -Xms256m -Xmx512m
```

Oracle Database

Character Set

The database character set **must** be AL32UTF8 to support all Unicode characters.

User Name and Password for a database

This is the user name and password that you use to access the database. You may set these database user names to the same user (schema) that you have specified for the database owner (The schema that holds all ActiveAccess database objects). However, if you wish to reserve the database owner for administration purposes and set up a more restricted user for ActiveAccess to access the database schema, please grant the following permissions to the restricted database user:

These permissions require confirmation:

Objects: EXECUTE

PL/SQL: EXECUTE

Sequences: ALTER, SELECT

Tables: DELETE, INDEX, INSERT, REFERENCES, SELECT, UPDATE

i Oracle 19c

If you are using Oracle 19c, add the following privileges for the database user before the installation of ActiveAccess:

```
grant execute on DBMS_SCHEDULER to USERNAME;
```

```
grant create job to USERNAME;
```

Note

Please refer to your database server documentation for the installation and configuration of Oracle server.

Configuring DCD (Dead Connection Detection)

Set the optional parameter `SQLNET.EXPIRE_TIME` to 10 (for 10 minutes) in the `sqlnet.ora` configuration file.

The configuration file is normally located at `$ORACLE_HOME/network/admin` directory.

The value of this parameter determines how often SQL*NET attempts to verify that the connection is still alive. This is to prevent shadow connections to be left open indefinitely.

There are a number of processes that hold a permanent or temporary lock on the database. If the connection to database is abruptly terminated (network disconnected or the server is turned off), the lock remains and will not be reclaimed by other competing processes. This affects sending notification messages via email, scheduling card upload and user upload jobs or registration services.

Configuring DCD ensures that this situation is automatically rectified after the specified time out.

Connection Pooling and Firewall

This section provides important operational information for proper configuration of the environment, when the database server is behind a firewall.

ActiveAccess components use a technique known as **connection pooling** to improve the performance of database related tasks. Connection pooling improves performance by reusing previously established connections. However, this may cause a problem when the database server is behind a firewall. The usual symptom is that the application appears to become unresponsive or frozen after a long period of inactivity.


This is due to firewall idle connection time-out setting. A firewall typically drops idle connections after a configurable time-out has expired. This causes further data transmission through these connections to be ignored by the firewall. Since most firewalls simply ignore the data packets and do not respond, this leaves the sender in a state of wait. The length of this wait state depends on the operating system's time-out setting. For Windows this is typically 15 seconds while the default Solaris time-out is 8 minutes during which the application appears to be frozen.

To prevent this problem ActiveAccess and Activelssuer components close idle database connections after 15 minutes. Make sure that your firewall time out setting is at least 1 minute longer than the default application idle connection time out.

The default can be changed by setting the DB_IDLE_TIMEOUT configuration option (in seconds) for each component.

Find Transactions Performance

The performance of transaction search can be greatly improved by analysing the HISTORYSESSIONS table on a regular basis.

-  Run the following SQL commands on the database monthly:

```
analyze table HISTORYSESSIONS compute statistics;
```

```
analyze table CARD compute statistics for all indexed columns;
```

```
analyze table CARDDATA compute statistics for all indexed columns;
```

```
analyze table REQUEST compute statistics for all indexed columns;
```

Analysing a table can take a long time and puts extra load on the database. Analyse the tables at a time when database activity is low.

Two-Factor Authentication Devices

SMS

SMS authentication is natively supported by ActiveAccess and does not require additional software. However, ActiveAccess needs to be configured to send SMS messages using SMPP protocol to an SMSC (SMS Centre). ActiveAccess supports SMPP-API-0.3.9.1. An SMSC is normally a gateway to the mobile communication network provided by a Telco or third party service provider.

You need the following details in order to configure SMS authentication in ActiveAccess administration:

Name: A unique name to identify this SMS centre in ActiveAccess


IP: The IP address of the SMS Centre

Port: The port which that SMS Centre is listening on

System ID: The username that is used by SMS Centre for authentication

Password: The password that is used by the SMS Centre for authentication

Sender's mobile number: The mobile number displayed to the message recipient.

 **Note**

Note that to be able to send SMS with templates other than English language or using symbols in SMS Template, you must set following system property in the **TOMCAT_HOME/bin/catalina.bat** or **catalina.sh**:


```
-Dsmpp.default_alphabet=ie.omk.smpp.util.UCS2Encoding
```

There are two ways to send OTP to SMSC:

MAILTO

IP: `MailTo:$DEVICE_SERIAL_NUMBER@example.com`

`$DEVICE_SERIAL_NUMBER` will be replaced by ACS with the mobile number that is stored for the card.

 **Note**

To use this option, mail server must be configured in **System Management > Settings**.


SMS VIA JMS

- Approach 1:

IP: `SmsViaJms:[IP_ADDR_STAND_ALONE_APP]`

- Approach 2:

IP: `SmsViaJms`

 **Note**

Note that to be able to send SMS with templates other than English language or using symbols in SMS Template, you must set following system property in the **TOMCAT_HOME/bin/catalina.bat** or **catalina.sh**:

```
-Dsmpp.default_alphabet=ie.omk.smpp.util.UCS2Encoding
```

Email OTP

Email authentication is natively supported by ActiveAccess and does not require additional software. However, ActiveAccess needs to be configured to send OTP via Email. You need the following details in order to configure Email authentication in ActiveAccess administration:

Mail server address: The address of the mail server

Mail server port: The port which the mail server is listening on

Mail server username: The username that is used by the mail server for authentication

Mail server password: The password that is used by the mail server for authentication

Mail server protocol: The protocol that is used by the mail server for secure communications over the network

Mail sender: The sender's name displayed to the email recipient.

VASCO

To enable authentication using VASCO tokens you need to:

- Install VASCO native libraries first.
- Obtain a copy of Java library 'aal2wrap.java' from VASCO and copy to the lib folder of your ActiveAccess application server.

The native library should be accessible to the java application. For this purpose in UNIX the variable `LD_LIBRARY_PATH` should contain the address of the native library which normally is `/opt/vasco/VACMAN_Controller-3.4/lib`.

In Windows the address of the DLL file should be added to the `PATH` variable. Also the VASCO token keys should be uploaded in the system. These files are provided by VASCO with the devices and can be uploaded to ActiveAccess using the administration interface.

- Browse to **System Management > Device Management** choose **upload file** and then specify the location of the file and relevant parameters.

OOB

To enable authentication using OOB, register and configure adapters. For more information, refer to [Out of Band Authentication Adapter](#).

Decoupled Authentication

To enable authentication using Decoupled Authentication, register and configure adapters. For more information, refer to [Decoupled Authentication Adapter](#).

Installation

Prerequisites

- Ensure that a compatible JDK is installed
- Ensure that the hardware security module is properly installed and configured

HSM keys

If this is a first time installation, ActiveAccess keys will be generated automatically.

For subsequent installations of ActiveAccess on other servers ensure that the AES (128 Bits) key alias **AA_MASTER** has been transferred from the primary installation in the current instance of HSM used by the ActiveAccess which is being installed.

- Ensure that the application server is properly installed and configured
- Ensure that the database server is properly installed and you have created a database for ActiveAccess.

Database details

Have the database name, username and password and address at hand for the installation process.

Pre Installation Configurations

Upgrades

For upgrades from **any** version of ActiveAccess to the latest version of ActiveAccess, follow the steps below.

i Before the upgrade:

1. Shutdown all instances of ActiveAccess, stop the current Tomcat servers.
2. Back up ActiveAccess directories, including the application server directories and configuration directories, such as TOMCAT_HOME and AA_HOME. Archive the ActiveAccess directory and store in a safe place. Do this for all instances of ActiveAccess.
3. Back up the database. The upgrade contains schema level changes. You will not be able to roll back, unless the database is fully backed up.
4. Back up all the HSM key data.

- If you have previously deployed **enrolment.war** to your application server, you must remove it.

For example, for Tomcat, go to **TOMCAT_HOME/webapps**, and remove the **enrolment.war** file and the deployed **enrolment** directory.

- Go to **TOMCAT_HOME/lib**. If the following files exist, back up and remove them:
 - gpcomp.pki-*.jar
 - gpcomp.hsm-*.jar
 - spp-*.jar
 - nfjava-*.jar
 - lunaprovider-*.jar
 - kmjava-*.jar
 - kmcsp-*.jar
 - jprov-*.jar
 - commons-codec-*.jar
 - aal2wrap-*.jar
- It is recommended to replace the HSM-related JAR files provided by ActiveAccess, with the libraries provided by your HSM provider. Note that the name of the replacement JAR files must be exactly the same as the name of the JAR files in the ActiveAccess installation package. For example, the **jprov.jar** file that is provided by your HSM provider may need to be renamed to **jprov-1.1.jar**.

Upgrades to v8.5.x and later

For upgrades to **ActiveAccess 8.5.x and later**, all clients must have **PKCS #11** configured for connectivity to the HSM (this excludes ActiveAccess installations with SunJCE).

- If your ActiveAccess installation already uses PKCS #11 (`HSMPROVIDER=PKCS11`), no changes are required. This would be the case if the first version of ActiveAccess that you installed was 7.4.x or later.
- If your ActiveAccess installation does not utilise PKCS #11 (i.e. the first version of ActiveAccess that you installed was version 7.3.x or older, with `HSMPROVIDER=ERACOM` , `HSMPROVIDER=nCipherKM` , or `HSMPROVIDER=LunaProvider`), you must add the following attributes in **activeaccess.properties** and set an appropriate value for them:
 - `MASTER_HSM_LIB_DIR=`
 - `MASTER_HSM_SLOT=`
 - `PKCS11_CONFIG_FILE_PATH=`

Note

If you are migrating to a new HSM device, the values set for the attributes `MASTER_HSM_LIB_DIR` , `MASTER_HSM_SLOT` , and `PKCS11_CONFIG_FILE_PATH` must be for the new HSM device.

Upgrades from v7.x.x to v8.x.x and later

If you are upgrading from ActiveAccess v7.x.x, **in addition** to the upgrade steps above, follow the steps below.

- An `AA_HOME` directory is required from which ActiveAccess will load the configurations it requires for installation. Create a directory and set an `AA_HOME` environment variable to this directory.

Note

Refer to your Operating System and application server documentation for any specific instructions for setting an environment variable.

- `AA_HOME` can be set in Tomcat in `catalina.bat/catalina.sh` as `JAVA_OPTS`
- `AA_HOME` can be set in WebLogic in `setDomainEnv.cmd` or `startWebLogic.sh`

- Add the following line in **`AA_HOME/activeaccess.properties`**

HSM_PASSWORD= < password >

Replace < password > with the base64 encoded format of your HSM password.

Warning

After the installation, a new configuration file, `activeaccess.properties`, will be created automatically in the `AA_HOME` directory. This new configuration file combines `acsconfig.properties`, `miaconfig.properties` and `regconfig.properties` and these files will be removed during the installation process.

If you have configured any parameters that are not specific to ActiveAccess, you must take a back up of these files before running the installation and move these parameters manually to `activeaccess.properties`.

New installations

- An `AA_HOME` directory is required from which ActiveAccess will load the configurations it requires for installation. Create a directory and set an `AA_HOME` environment variable to this directory.

Note

Refer to your Operating System and application server documentation for any specific instructions for setting an environment variable.

- `AA_HOME` can be set in Tomcat in `catalina.bat/catalina.sh` as `JAVA_OPTS`
- `AA_HOME` can be set in WebLogic in `setDomainEnv.cmd` or `startWebLogic.sh`

- In the installation package, go to the **ActiveAccess** directory, copy **activeaccess.properties** to your `AA_HOME` directory.
- Open **activeaccess.properties** and fill in the required configuration parameters.
- It is recommended to replace the HSM-related JAR files provided by ActiveAccess, with the libraries provided by your HSM provider. Note that the name of the replacement JAR files must be exactly the same as the name of the JAR files in the ActiveAccess installation package. For example, the `jprov.jar` file may need to be renamed to `jprov-1.1.jar`.

Deploying WAR Packages

Download and extract the ActiveAccess installation package from [GPayments MyAccount > ActiveAccess > Download](#).

Access Control Server, Administration Server, Registration Server and Whitelist Server are distributed in the ActiveAccess installation package as WAR packages. To install these packages, deploy **acs.war**, **mia.war**, **registration.war** and **whitelist.war** packages from **ActiveAccess/files** to your application server.

Deployment mechanism

Depending on the application server, the deployment mechanism would be different.

For example:

For Tomcat, the war files should be copied to **TOMCAT_HOME/webapps**.

For Oracle WebLogic Server, extract .war files and use the extracted directory to copy them in autoDeploy directory, or use the extracted directory in WebLogic's manual deployment (WebLogic console > domainStructure > Deployments > install section).

Please refer to your application server's documentation for instructions.

Installation

To initialize the installation process, start the application server.

This process may take a couple of minutes to complete.

An installation log will be created in **AA_HOME/logs/install_log.log**.

Info

If you are using two different database users in setup (for **db_owner** and **db_user**), from ActiveAccess v8.0.1 onwards, grant scripts are run automatically during setup and no longer need to be run manually.

Warning

ActiveAccess modules have specific configuration files such as `logback.xml`, `sms_jms_config.properties`, which allow the client to customise various parameters based on their environment settings.

In some releases, new parameters are introduced or deprecated. The installer will compare the dates of the configuration files in the installation package with the ActiveAccess working directory and raise warnings if there are any differences.

Following each update/upgrade, the `install_log.log` file should be checked by the Admin for warnings in order to ensure that no changes in the configuration files have been missed.

The warnings will appear in the following format:

```
The date or size of [full path of the config file in installation package]
is different from [full path of the config file in AA_HOME], compare the
content and make sure all the required and optional parameters are OK.
```

Installation of Individual Components

The Access Control Server handles greater loads than other components and may be installed on a physical machine, dedicated to transaction processing.

Administration, Registration and Whitelist servers are usually installed on the same physical machine.

To install individual components:

- Ensure that you have the [prerequisites](#) properly installed and configured for each component that is being installed individually.
- [Deploy](#) the component's WAR package to the application server.
 - Access Control Server: **acs.war**
 - Administration Server: **mia.war**
 - Registration Server: **registration.war**
 - Whitelist Server: **whitelist.war**
- Configure the [installation parameters](#) (**AA_HOME** directory and configuration file).
- Start the application server.
- Ensure that the AES (128 Bits) key alias **AA_MASTER** exists in the HSM.

 **Tip**

If this is a first time installation, ActiveAccess keys will be generated automatically.

For subsequent installations of ActiveAccess on other servers ensure that the AES (128 Bits) key alias **AA_MASTER** has been transferred from the primary installation in the current instance of HSM used by the ActiveAccess which is being installed.


Rollback Process

In case you need to roll back to the previous version, follow the steps below:

1. Shutdown all ActiveAccess servers and stop the applications in the application server.
2. Restore the original database.
3. Restore ActiveAccess directories and deploy the previous version of the applications on your application server locations.

Post Installation

- If you upgraded to ActiveAccess v9.0.x from an older version, you must run the [Migrate to Data Key Utility](#) and ensure the key migration process completes successfully.

 **Note**

This utility does not need to be run for new installations of ActiveAccess v9.0.x.

 **Warning**

It is strongly recommended to start the key migration process as soon as possible. Running this utility is critical to upgrading to future versions of ActiveAccess. Old keys (RSA, CAVV, AAEV, HMAC, HMAC256, encryption keys) and old Issuer Signing Certificates will not be supported in future releases of ActiveAccess beyond January 2022.

If you have any questions in regards to the above, please contact techsupport@gpayments.com.

- On successful installation and when the application server is started, the internal components are started on the default port. These components are:

Access Control Server

Base URL: `https://< server-address >:< port >/acs/`

The following extensions can be added to the base URL:

Card Scheme	3DS1 VE/UE	3DS1 PA/UA	3DS2 AReq	3DS2 CReq
Verified by Visa/Visa Secure	/vbv	/pa	/vbva	/ca
Mastercard SecureCode/IDC	/msc	/pa	/mca	/ca
JCB J/Secure	/jcb	/pa	/jcba	/ca
American Express SafeKey	/sk	/pa	/ska	/ca
Diners Club International ProtectBuy	/dc	/pa	/dca	/ca
UnionPay International			/upia	/ca
Prostir e-Secure			/prsa	/ca

Example

Verified by Visa VE: `https://< server-address >:< port >/acs/vbv`

Info

The PA and CReq paths determine the **ACS URL** as seen by the user.

3DS Method URL: `https://< server-address >:< port >/acs/tdsmethod`

Info

Upon receiving an HTTP message, the ACS opens a hidden HTML page to collect various data points from the browser. The data collected includes:

- Whether Java is enabled
- Browser language
- Screen color depth
- Screen height
- Screen width
- Time zone offset
- User agent
- Whether the page is opened in an iframe
- Accept header
- IP address
- Whether JavaScript is enabled

Monitoring the availability of ACS: `https://< server-address >:< port >/acs/ping`

Info

If the ACS is up and running, a JSON message will be displayed, which reports the availability of Database as well as the HSM. If the ACS is down, an error will be displayed. If Database or HSM is unavailable the value will be "not connected" in displayed message.

JSON Response Elements:

Attribute	Possible value
dbConnectionStatus	<ul style="list-style-type: none">- Connected- Connection limit reached- Can't establish connection- Connection pool is not initialized
hsmConnectionStatus	<ul style="list-style-type: none">- Connected- Not connected

Example

```
{"dbConnectionStatus":"connected","hsmConnectionStatus":"connected"}
```

Administration Server

Base URL: `https://< server-address >:< port >/mia/`

Monitoring the availability of MIA: `https://< server-address >:< port >/mia/ping`

Info

If the Administration Server is up and running, a JSON message will be displayed, which reports the availability of the Database as well as the HSM. If the Administration Server is down, an error will be displayed. If the Database or HSM is unavailable the value "not connected" will be displayed in the message.

JSON Response Elements:

Attribute	Possible value
dbConnectionStatus	<ul style="list-style-type: none">- Connected- Connection limit reached- Can't establish connection- Connection pool is not initialized
hsmConnectionStatus	<ul style="list-style-type: none">- Connected- Not connected

Example

```
{"dbConnectionStatus":"connected","hsmConnectionStatus":"connected"}
```

Registration Server

Base URL: `http(s)://< server-address >:< port >/registration/`

Info

Entering the URL above in a browser will display the message:

```
The Registration Server has received a GET.
```

```
Your signed XML (application/xml) should be sent via HTTP POST.
```

Login to the Administration Server as Administrator and set the **Registration server URL** in the **System Management/Settings** section to the base URL of the Registration server.

The Registration Server accepts HTTP Post commands for the purpose of uploading cardholder registration data.

Info

When using SSL, the Registration server certificate should be signed by a public CA. If you intend to use a self-signed certificate or a certificate signed by a certificate authority other than commercially known certificate authorities, you must import the CA's root certificate into the Administration server's TrustStore.

The Administration server TrustStore (cacerts) can be found in the config directory of the Administration server. Export your CA root certificate as a DER encoded or Base-64 encoded X509 certificate and use Keytool to import this into the cacerts file:

```
keytool -import -trustcacerts -alias myca -file cacert.cer -keystore cacerts -storepass changeit
```

Replace cacert.cer with the CA certificate file you wish to add to the KeyStore.

The following extensions can be added to the base URL:

Process	URL Extension
Card registration requests	/card
Notification report requests	/notification

Note

The base URL can be used for **card registration requests**. Using the extension is optional.

Monitoring the availability of Registration: `http(s)://< server-address >:< port >/registration/ping`

Info

If the Registration Server is up and running, a JSON message will be displayed, which reports the availability of Database as well as the HSM. If the Registration Server is down, an error will be displayed. If Database or HSM is unavailable the value will be "not connected" in displayed message.

JSON Response Elements:

Attribute	Possible value
dbConnectionStatus	<ul style="list-style-type: none">- Connected- Connection limit reached- Can't establish connection- Connection pool is not initialized
hsmConnectionStatus	<ul style="list-style-type: none">- Connected- Not connected

Example

```
{ "dbConnectionStatus": "connected", "hsmConnectionStatus": "connected" }
```

Whitelist Server

Base URL: `http(s)://< server-address >:< port >/whitelisting/wl/api/merchant/`

Login to the Administration Server as an **Administrator** user and set the **Whitelist server URL** in **System Management/Settings** to the base URL of the Whitelist server. The Whitelist Server accepts HTTP Post commands for the purpose of adding/displaying/removing cardholder's whitelisted merchant data.

i Info

When using SSL, the Whitelist server certificate should be signed by a public CA. If you intend to use a self-signed certificate or a certificate signed by a Certificate Authority other than commercially known certificate authorities, you must import the CA's root certificate into the Administration server's TrustStore. The Administration server TrustStore (cacerts) can be found in the config directory of the Administration server. Export your CA root certificate as a DER encoded or Base-64 encoded X509 certificate and use Keytool to import this into the **cacerts** file:

```
keytool -import -trustcacerts -alias myca -file cacert.cer -keystore cacerts -storepass changeit
```

Replace **cacert.cer** with the CA certificate file you wish to add to the KeyStore.

The following extensions can be added to the base URL:

Process	URL Extension
Add Merchant request	/add
Remove Merchant request	/remove
Display Merchant request	/getMerchant
Remove list of Merchant request	/removelist
Display history of Merchant request	/getMerchantHistory

Monitoring the availability of Whitelist Server:

- `https://<server-address>:<port>/whitelisting/ping`
- `https://<server-address>:<port>/whitelisting/wl/api/merchant/ping`

Info

If the Whitelist Server is up and running, a JSON message will be displayed, which reports the availability of Database as well as the HSM. If the Whitelist Server is down, an error will be displayed. If Database or HSM is unavailable the value will be "not connected" in displayed message.

JSON Response Elements:

Attribute	Possible value
dbConnectionStatus	<ul style="list-style-type: none">- Connected- Connection limit reached- Can't establish connection- Connection pool is not initialized
hsmConnectionStatus	<ul style="list-style-type: none">- Connected- Not connected

Example

```
{"dbConnectionStatus": "connected","hsmConnectionStatus": "connected"}
```

Configuration Files

ActiveAccess Configuration File

AA_HOME/activeaccess.properties

The ActiveAccess Configuration file, **activeaccess.properties**, is automatically created/updated by the ActiveAccess installation. Common options such as database information are required to be configured during installation. The following sections document all the available parameters in case you need to change the defaults.

Note

ActiveAccess server must be restarted for changes to configuration files to take effect.

Common Configuration Parameters

DBNAME, DBOWNERPASSWORD

This is the database owner name and password that you use to create the database. When you first set or change the database owner password, you may set it in clear text. You should also add (PLAIN_TEXT=) to your configuration file.

Note

This parameter must always have a value.

DBUSERNAME, DBPASSWORD

This is the **username** and **password** that you use to access the database. In a simple configuration this username may be the same as the database owner name. When you first set or change the database password, you may set it in clear text. You should also add (PLAIN_TEXT=) to your configuration file.

Note

This parameter must always have a value.

PLAIN_TEXT=

This instructs the server to read DBOWNERPASSWORD and DBPASSWORD in clear text and replace them with the encrypted values.

DBURL

For Oracle the default URL is:

```
jdbc\:oracle\:thin\:@127.0.0.1\:1521\:ORCL
```

Replace 127.0.0.1:1521 with the IP address and port number of the Oracle instance you have installed. ORCL is the SID of the database and must be replaced with the SID you selected during the installation of the database server.

```
DBURL=jdbc\:oracle\:thin\:@192.168.0.202\:1521\:ORCL
```

DBDRIVER

For Oracle, leave the default value unchanged as shown below:

```
DBDRIVER=oracle.jdbc.driver.OracleDriver
```

INITIALCONNECTIONS

Specifies the initial length of database connection pool allocated by the application.

MAXCONNECTIONS

Specifies the maximum length of database connection pool that can be allocated by the application.

WAITIFBUSY

Can be set to either true or false. The default is true. When set to true, connection requests exceeding the maximum connections will be queue until a connection is freed. When set to false, the application immediately returns an connection error if no free connection can be found in the pool.

DB_IDLE_TIMEOUT

The database idle connection time out in seconds. Idle database connections are closed in the application's connection pool after the specified time. The default is 900 seconds.


DBENCODED

If this parameter sets to false reading and writing to database is done in ISO-8859-1 character set and ActiveAccess uses its own encoding (Default value is **false**). Otherwise database's own encoding is used.

HSM PROVIDER

Used to specify the HSM provider name.

For ActiveAccess instances which were originally installed prior to ActiveAccess v7.4.0, the value would be **nCipherKM** for Thales e-Security, **ERACOM** for SafeNet, **SUN** for Sun JCE, or **ERACOM_PSE3_FW7** for ProtectServer 3+ External HSM. In ActiveAccess instances originally installed after and including v7.4.0, this parameter would be **PKCS11** or **SUN**.

 **Note**

This parameter should always have a value.

KEYSTORE_DIR

Used to specify the physical location of the HSM KeyStore (Thales e-Security or SunJCE). Use forward slash as the path separator e.g.: `KEYSTORE_DIR=c:/nfast/kmdata/local`

PKCS11_CONFIG_FILE_PATH

Used to specify the path to the PKCS #11 configuration file with a `.properties` extension.

The contents of the configuration file should contain `library`, `slot` and `name` parameters.

 **Note**

If this file does not exist, it will be generated automatically.

nShieldHSM

Only if you are using an nShield HSM, set the value to Yes. For all other HSM types, it should be left blank.

HSM_PASSWORD

Used to set the HSM password in the configuration file. This option takes precedence over the java option `-Dcom.gpayments.hsm.password`. The HSM password must be provided in base64 encoded format in both cases. Leave empty for a blank HSM password.

HSM_LIB_DIR


Used to specify the path of `.dll` or `.so` file which will be added to `pkcs11config.properties` file, if the file does not exist.

HSM_SLOT

Used to specify the slot number that will be added to `pkcs11config.properties` file, if the file does not exist.

MASTER_HSM_LIB_DIR


Used to specify the path of `.dll` or `.so` file which will be added to `pkcs11config.properties` file, if the file does not exist. This will be used for saving the Master Key in the HSM.

 **Note**

This parameter is used for migration to HSM connectivity via PKCS #11.

MASTER_HSM_SLOT

Used to specify the slot number that will be added to `pkcs11config.properties` file, if the file does not exist. This will be used for saving the Master Key in the HSM.

 **Note**

This parameter is used for migration to HSM connectivity via PKCS #11.

HSMENCALIAS


When the MIA/ACS Settings Encryption Key is automatically or manually retired and replaced with a new one using the PCIDSS Key Retiring Utility, the default key alias is changed. Therefore, the new key alias is specified by HSMENCALIAS.

WS_POOL

Used to specify the size of WebSocket pool. The default value is 1000.

TOMCAT_KEYSTORE

Used to specify the path of the Tomcat KeyStore in case the timeout error fails with SSL Handshake in browser-based authentication.

 **Note**


Use forward slash as the path separator.

TOMCAT_KEYSTORE_PASS

Used to specify the password of the Tomcat KeyStore in case `TOMCAT_KEYSTORE` is set.

TOMCAT_TRUSTSTORE

Used to specify the path of the Tomcat TrustStore in case the timeout error fails with SSL Handshake in browser-based authentication and the SSL connection is not one-sided.

 **Note**

Use forward slash as the path separator.

TOMCAT_TRUSTSTORE_PASS

Used to specify the password of the Tomcat TrustStore in case `TOMCAT_TrustStore` is set.

CARD_MOD_10_CHECK

Used to enable/disable mod 10 check when creating cards via the administration interface, for testing purposes. It can be set to `true` or `false`. The default value is `true`.

TESTING_MODE

Can be set to either `true` or `false`. Set it to true during certification testing. Default value is `false`.

PROVIDER_TEST

Can be set to either `true` or `false`. Set it `true` during certification test only if the test card bin is not supported in default providers.xml file. If set true providers_test.xml should be created and placed at `AA_HOME`.

TEST_AUTH_SERVER

Set URL of authentication server. This parameter is developed to support UL tests.

ACS_REFERENCE_NUMBER_TEST

Set ACS reference number during certification test.

TIMEZONE_ID

Used to set the time zone of the application.

Refer to **ActiveAccess/timezones.txt** which has a list of acceptable time zones.

Example

```
TIMEZONE_ID=Australia/Sydney
```

Note

This parameter should always have a value.

Additional Administration Server Configuration Parameters

UPLOADCACHE_DIR

Used to specify a location to copy uploaded file that VASCO tokens fetched from it. Use forward slash as a path separator e.g.: `UPLOADCACHE_DIR=c:/tempdir`

MAX_WARNINGS

Specifies the maximum number of warning messages that the administration server will generate while processing VASCO token files before an error is returned. In other words, if processing a VASCO file creates more warnings than this value, the server will terminate processing of the file and will return an error response. If this parameter is not specified, a default value of 50 is used.

EUB_REPORT

Used to enable/disable the European Banking Authority(EBA) report collector, which is for generating reports containing data on the 3D secure authentication method. If the value has been set to **true**, a report will be generated on the server that has this setting in `activeaccess.properties`. The default value is **false**.

Values:

- **true**: enable the EUB report collector.
- **false**: disable the EUB report collector.

Additional ACS Configuration Parameters

COMPUTERNAME

This is the computer name where the ACS is installed.

DOMAINNAME

This is the domain name where the ACS is installed. It must be resolved to an IP address and you must add this host name to `/etc/hosts` or in Windows `C:\WINDOWS\system32\drivers\etc\hosts` before installation.

BINDING_IP_ADDRESS

Used to define the binding IP address of ActiveAccess.

RMI_PORT

The RMI port of ActiveAccess. The default value for the RMI port is 4242. If you decide to change the RMI port, you can edit this value at any time.

AHS_FLAG

Used to enable/disable Authentication History Server. It can be set to either true or false. The default value is true.

CACHING

This option specifies the caching mode for resources. The default is **everyvisit**.

DBENCODED

Can have two values **Yes** or **No**. If your Database is set to use encoding, set this option to **Yes**.

ZLIBOFF

It can be set to either **true** or **false**. When it is set to true, ACS does not inflate ZIP objects. The default value is false.

Warning

This option is for test purposes only. Setting the options to **true** in production will cause interoperability problems with other 3-D Secure components.

SKIP_CARDEXP_VALIDATION

A comma separated list of date and issuer ID. The issuer with defined issuer ID will not validate the expiry date of the card that expires on or after the defined date.

Format: YYYY_ISSUERID.

AMOUNT_FORMATTER

Used to set the reference for the transaction amount format in SMS, email, and authentication pages. The default is **STANDARD**.

Values:

- **STANDARD**: The US-English standard, which includes a comma as the thousands separator and a dot as the exponent separator.
- **LOCALISED**: The local value derived from the installed server. In case the `user.language.format` and `user.country.format` are not set, the default local of the system will be used.

IGNORE_DTD_ORDER_3DS1

Used to enable/disable the checking of the order of the elements provided in 3DS1 requests. The default is **false**.

Values:

- **true**: The order of the elements will not be checked.
- **false**: The order of the elements will be checked.

MD_VALIDATION_3DS1

Used to enable/disable the validation of the MerchantData element in JCB 3DS1 transactions. The default value is true.


Values:

- **true**: MerchantData element will be validated.
- **false**: MerchantData element will not be validated.

PURCHASE_DATE_ACCEPT_BALANCE

Used to configure the balance of the purchase date validation. The validation is disabled by default, unless configured.

- **Accepted range**: 60 to 1440 (1 hour to 1 day in minutes).

 **Note**

This is a temporary parameter. The System admin or Issuer admin should configure this option on MIA.

BROWSER_INFO_VALIDATION

Used to enable/disable the browser information validation.

Values:

- **true**: Performs validation of the data provided in the corresponding fields in the AReq message by comparing with the data collected via ThreeDSMethod.
- **false**: Skips the validation of the browser information collected in AReq and ThreeDSMethod.

CAVV_POS6_AUTHDATE

Used to configure position 6 in CAVVU3V7 for Visa Secure Compliance Testing. The default value is 1, which is valid for production. Uncomment this parameter only when performing certificate testing for Visa Secure CAVV test cases.

Values:

- **0**: Uses the purchaseDate in julian date (UTC)
- **1**: Uses the system current time in julian date (UTC)

Additional Registration Server Configuration Parameters

VERIFICATION

Can be set to either **true** or **false**. When the verification is true, the registration server checks the authenticity of XML messages by validating the XML signature. Disabling verification should be avoided in a production system for security reasons.

REQUEST_LOGGING

Can be set to either **true** or **false**. Used to collect request debug information, intended for testing purposes. This option should not be enabled in production environment.

MAX_WARNINGS

Specifies the maximum number of warning messages that the registration server will generate, before an error is returned. In other words, if a message sent to the registration server creates

more warnings than this value, the server will terminate processing the message and will return an error response. If this parameter is not specified the default value of 50 is used.

Notification Report Collector Job Parameters:

Notification Reports are provided based on collected report files by the Notification Report Collector Job on the Registration server. In order to configure this job to collect the required data and cache report files, the following parameters must be set in `activeaccess.properties`:

LAST_REPORT_TIME

The last time that the notification report collector job was run

Format: DD/MM/YYYY

OFFICIAL_START_HOUR (Deprecated and is no longer used)

The hour that is used as the start hour of the day. Reports are collected based on this hour.
Values: 00..23 (default: 00)

OPTOUT_MODE

The flag that specifies whether report collector should collect the last cardholder opt out only or all opt outs.

Values: LAST/ALL (default: ALL)

SCHEDULER_START_TIME

The time that the report collector job starts to collect reports based on `LAST_REPORT_DATE`

Format: HH:mm:ss GMT(+0:00) (default: -1 to disable job).

Example: Assume `LAST_REPORT_TIME=02/02/2009`, `SCHEDULER_START_TIME=22:30:30`, if today is 05/02/2009, report collector starts at 22:30:30 GMT(+0:00) and collects reports from 02/02/2009 00:00 to 05/02/2009 00:00

Note

If `SCHEDULER_START_TIME` is set to a time in past, the job will be scheduled for tomorrow at the specified time.

NOTIFICATION_FILE_PATH

The path on the server which the report collector job will cache for the collected report files

The default path is a **NotificationReport** directory, located in the deployed directory of Registration on your application server.

NOTIFICATION_REPORT_LIFETIME

The life time of cached report files on the server in DAY. As soon as the report collector job starts, it removes files if their life time period has already passed

Default: -1 to disable

NOTIFICATION_REPORT_REGEN_ISSUERIDS

A comma separated list of the IDs of the issuers that have retired their encryption key using PCIDSS Retiring Utility. As the result of retiring the encryption key of an issuer, the pre-collected notification report files are no longer valid. This list is automatically populated at the end of the utility process to indicate that notification reports should be re-collected for the specified issuers at the next run of the notification report collector job.

Example

```
NOTIFICATION_REPORT_REGEN_ISSUERIDS = 284357534937385611, 974922143261996848
```

IGNORE_BASE64URL_PADDING_CHECK

Used to enable/disable the padding validation of base64UrlEncoded content for a defined card scheme and issuer. Value can be a list of [provider]_[issuerId]

Example

```
IGNORE_BASE64URL_PADDING_CHECK = VBV_1234567890 , SC_1234567890 , JCB_1234567890 , SK_1234567890 ,  
DC_1234567890 , UPI_1234567890 , PRS_1234567890
```

DISABLE_STAND_IN_TRANS_FOR_CAAS

Used to enable/disable the Stand-In transaction for remote issuers. The default value is **false**.

Values:

- **true**: disables the Stand-In Transaction for remote issuers. If the response is Error (verifyRegResp.code=4), transaction status will be set to N.
- **false**: enables the Stand-In Transaction for remote issuers. If the response is Error (verifyRegResp.code=4), transaction status will be set to U.

Providers File


ActiveAccess requires the default card ranges of all providers in order to process incoming 3D-Secure authentication requests. As card schemes may add new card ranges at any time, the providers file allows for the additions to be made manually, when required. The following options can be updated in **providers.xml** under the **AA_HOME** directory.

- **Provider name, provider index, cName and provider ID**: within the < providerInfo > element for each of the providers, there are tags for the provider's name (< providerName >), index (< providerIndex >), card scheme authentication method (< cName >), and provider ID (< providerId >). The following table shows the possible values for the aforementioned tags.


providerName	providerIndex	cName	providerId
Visa	1	vbv	2
Mastercard	2	msc	1
JCB	3	jcb	3
AMEX	4	sk	5
DinersClub	5	dc	6
UnionPay	6	upi	7
Prostir	7	prostir	8

- **Card Range**: the card ranges for each provider are included in the providers file, in the form of minimum range and maximum range. The minimum range should always be lower than', or equal to, the maximum range, with an equal number of digits. You can add any card range to the providers file inside the tag, by copying the tag and inserting the new minimum and

maximum ranges. Make sure the newly added card ranges do not overlap with another provider's card ranges. Furthermore, the tag indicates the required number of digits for card numbers, which fall within the specified card range.

 **Note**

If you want to update the providers file, make sure the xml format is followed closely, as any formatting issues may result in ActiveAccess failing to start.

 **Note**

Changes made to the providers file will not take effect immediately, unless the ActiveAccess server is restarted.

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 Visa (Verified by Visa) and subsequently adopted by Mastercard (Mastercard SecureCode and Mastercard SecureCode), JCB (JCB J/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.
3D Secure	3DS1	
3D Secure 1	3DS2	
3D Secure 2		

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 <i>3DS Server</i>).
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 eCommerce 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 <i>EMV 3-D Secure Protocol and Core Functions Specification</i> .
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 <i>Access Control Server</i> .
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 <i>Authentication Device</i> .
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 <i>3-D Secure</i>).
Mastercard Identity Check		see <i>Mastercard SecureCode / Identity Check</i> .
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	OTP	A passcode that is valid for one login session or transaction only, on a computer system or other digital device.
Out-of-Band	OOB	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	PARReq	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 <i>Mastercard SecureCode / Identity Check</i> .
Token:		see <i>Authentication Token</i> .
Two Factor Authentication		see <i>2-F Authentication</i>
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 <i>3-D Secure</i>).
VisaNet		Visa's proprietary payment network.
Visa Secure		A program developed by Visa to make online payments more secure through 3-D Secure 2.

Document Control

+ new item
 Δ item changed
 X item removed
 ■ no change to item

Date	AA Ver	Doc Ver	Change Details
[27/02/2026]	11.1.14	11.1.14.1	<p>Issuers (Admin UI)</p> <ul style="list-style-type: none"> + Added Smart Authentication BIN Attack Extension to Provider Sett <hr/> <p>Codes (Transaction Status Codes)</p> <ul style="list-style-type: none"> Δ Updated 3DS v2.2 transaction status code.
[30/01/2026]	11.1.13	11.1.13.2	<p>Issuer Management (Admin UI)</p> <ul style="list-style-type: none"> + Added EU Region to Issuer Details Δ Updated the note of EEA Region in Issuer Details.
[18/12/2025]	11.1.13	11.1.13.1	<p>Codes (Transaction Status Codes)</p> <ul style="list-style-type: none"> Δ Updated 3DS v2.2 transaction status code. <hr/> <p>Installation (Installation Guide)</p> <ul style="list-style-type: none"> + Added a new configuration parameter CAVV_POS6_AUTHDATE in Configuration Parameters. <hr/> <p>Remote Messaging (Specifications)</p> <ul style="list-style-type: none"> + Added threeDSRequestorDecMaxTime to Transaction + Added Response Code 3 to VerifyRegResp.
[10/11/2025]	11.1.12	11.1.12.1	<p>Out of Band (OOB) Authentication Adapter (Specifications)</p> <ul style="list-style-type: none"> Δ Updated Adapter Loading Process. <hr/> <p>Issuers (Admin UI)</p> <ul style="list-style-type: none"> + Added Alternative Out-of-Band Flow in Local Issuer Settings.
[28/10/2025]	11.1.11	11.1.11.2	<p>Codes (Transaction Status Codes)</p> <ul style="list-style-type: none"> Δ Updated 3DS v2.2 transaction status code.
[14/10/2025]	11.1.11	11.1.11.1	<p>Out of Band (OOB) Authentication Adapter (Specifications)</p> <ul style="list-style-type: none"> Δ Updated Adapter Loading Process.

Date	AA Ver	Doc Ver	Change Details
[25/07/2025]	11.1.8	11.1.8.1	<p>Installation (Installation Guide)</p> <p>+ Added a new configuration parameter BROWSER_INFO_VALIDATIO Configuration Parameters.</p>
[09/07/2025]	11.1.7	11.1.7.1	<p>Installation (Installation Guide)</p> <p>+ Updated a configuration parameter HSMPROVIDER in Common Cor Parameters.</p>
[23/05/2025]	11.1.6	11.1.6.1	<p>Security (Admin UI)</p> <p>Δ Updated SDK Certificate Certificate and Directory Server Certificate.</p> <p>Issuer Management (Admin UI)</p> <p>+ Added Use parent SDK and DS certificates.</p>
[20/05/2025]	11.1.5	11.1.5.2	<p>Out of Band (OOB) Authentication Adapter (Specifications)</p> <p>+ Added appURL.</p>
[07/03/2025]	11.1.4	11.1.4.1	<p>Issuer Management (Admin UI)</p> <p>+ Added a note to Force Risk Assessment in Issuer Details.</p> <p>Codes (RReq Authentication Method Codes)</p> <p>+ Added Authentication Method 90 and 91 in RReq Authentication M</p>
[18/11/2024]	11.1.1	11.1.1:1	<p>Out of Band (OOB) Authentication Adapter (Specifications)</p> <p>+ Added OOB Challenge Cancel and OOB Challenge Timeout.</p> <p>OOB Management (Admin UI)</p> <p>+ Added Automatic switch to APP to Edit OOB Adapter.</p> <p>Issuers (Admin UI)</p> <p>+ Added support Bridging Message Extension to Provider Settings.</p>
[18/09/2024]	11.1.0	11.1.0:3	<p>Out of Band (OOB) Authentication Adapter (Specifications)</p> <p>+ Added getSwitchResponse in Adapter interface methods</p> <p>+ Added Get OOB switch result</p> <p>+ Added OobSwitchResponseResult Data Elements.</p>
[06/09/2024]	11.1.0	11.1.0:1	<p>Issuer Management (Admin UI)</p> <p>Δ Added fallback support for Out of Band Authentication.</p>

Date	AA Ver	Doc Ver	Change Details
------	--------	---------	----------------

Issuers (Admin UI)

- Updated [Language selection during authentication](#)
- Added page customisation tips to [Custom Pages](#).

[12/06/2024]	11.0.0	11.0.0:1	Added Prostir e-Secure support.
--------------	--------	----------	---------------------------------

[11/04/2024]	10.0.4	10.0.4:1	<p>Out of Band (OOB) Authentication Adapter (Specifications)</p> <ul style="list-style-type: none"> Added a note for ping-pong mechanism.
--------------	--------	----------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------

[20/03/2024]	10.0.3	10.0.3:3	<p>Release Notes (Release Notes)</p> <ul style="list-style-type: none"> Added a missing change in release notes.
--------------	--------	----------	----------------------------------------------------------------------------------------------------------------------------------------

[17/03/2024]	10.0.3	10.0.3:2	<p>Release Notes (Release Notes)</p> <ul style="list-style-type: none"> Fixed an External ID typo in v10.0.3:1.
--------------	--------	----------	---------------------------------------------------------------------------------------------------------------------------------------

[15/03/2024]	10.0.3	10.0.3:1	<p>Out of Band (OOB) Authentication Adapter (Specifications)</p> <ul style="list-style-type: none"> Updated Sample Request/Response of Request OOB Challenge Added Sample Request/Response in Get OOB authentication result Updated response of Check OOB Authenticator Server availability st
--------------	--------	----------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Codes (Transaction Status Codes)

- Updated [3DS v2.1 transaction status code](#) and [3DS v2.2 transactio](#)

Issuer Management (Admin UI)

- Updated [New Issuer Group](#), [Issuer Group Details](#), and [Issuer Details](#) notes under Authentication Value Algorithm Selection.

[25/01/2024]	10.0.0	10.0.0:1	<p>Remote Messaging (Specifications)</p> <ul style="list-style-type: none"> Added Response Code 4 to VerifyRegResp and PreAuthResp.
--------------	--------	----------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Risk Management (Admin UI)

- Add decryption instructions to [Upload Connector Encryption Key](#).

OOB Management (Admin UI)

- Add decryption instructions to [Upload Connector Encryption Key](#).

Decoupled Authenticator Management (Admin UI)

- Add decryption instructions to [Upload Connector Encryption Key](#).

Date	AA Ver	Doc Ver	Change Details
			<p>Codes (Transaction Status Codes)</p> <p>⚠ Updated 3DS v2.1 transaction status code and 3DS v2.2 transactio</p>
[12/12/2023]	9.4.0	9.4.0:3	<p>Response Codes (Specifications)</p> <p>⚠ Updated the decription of <code>VerifyAuthResp = 5</code>.</p>
[08/12/2023]	9.4.0	9.4.0:2	<p>Release Notes (Release Notes)</p> <p>⚠ Fixed an External ID typo in v9.0.4:1.</p>
[30/11/2023]	9.4.0	9.4.0:1	<p>Installation (Installation Guide)</p> <p>➕ Added Whitelist Server Monitoring to Whitelist Server.</p>
			<p>Whitelisting (Specifications)</p> <p>➕ Added new sections: Remove Merchant from Card and Remove Me from Card.</p>
			<p>System Management (ACS Settings)</p> <p>➕ Added RReq retry lifetime</p>
			<p>Risk Management (Admin UI)</p> <p>➕ Added Query Archived transactions to Edit Risk Adapter.</p>
			<p>Issuer Management (Admin UI)</p> <p>➕ Added Exchange Rate Management and Visa Secure Informational Issuer Details.</p>
			<p>Issuers (Admin UI)</p> <p>➕ Added Enable purchase date validation and Purchase date validatio Local Issuer Settings and Remote Issuer Settings</p> <p>➕ Added Add device acknowledgement in ARes to Provider Settings.</p>
			<p>Codes (Transaction Status Codes)</p> <p>⚠ Updated 3DS v2.1 transaction status code and 3DS v2.2 transactio</p>
			<p>Out of Band (OOB) Authentication Adapter (Specifications)</p> <p>⚠ Updated diagrams for process of OOB Authentication and added de ping-pong mechanism.</p>
[20/07/2023]	9.3.0	9.3.0:1	<p>Issuer Management (Admin UI)</p> <p>➕ Added Force Risk Assessment to Issuer Details.</p>

Date	AA Ver	Doc Ver	Change Details
			<p>Issuers (Admin UI)</p> <ul style="list-style-type: none"> Updated the description of Mastercard SecureCode only in Provide
[31/03/2023]	9.2.0	9.2.0:1	<p>Installation (Installation Guide)</p> <ul style="list-style-type: none"> Added a new configuration parameter DISABLE_STAND_IN_TRANS. Common Configuration Parameters.
			<p>Issuer Management (Admin UI)</p> <ul style="list-style-type: none"> Added EEA region to Issuer Details Added DAF to BIN Management.
			<p>Codes (Transaction Status Codes)</p> <ul style="list-style-type: none"> Updated 3DS v2.1 transaction status code and 3DS v2.2 transactio
[10/11/2022]	9.1.3	9.1.3:1	<p>Risk Management (Admin UI)</p> <ul style="list-style-type: none"> Changed Edit Risk Adapter.
[03/11/2022]	9.1.2	9.1.2:1	<p>Installation (Installation Guide)</p> <ul style="list-style-type: none"> Added a new configuration parameter IGNORE_BASE64URL_PADDING. Common Configuration Parameters.
			<p>Issuers (Admin UI)</p> <ul style="list-style-type: none"> Added a new tip for Out-of-band authentication page to Custom Pag
			<p>Codes (Transaction Status Codes)</p> <ul style="list-style-type: none"> Updated 3DS v2.1 transaction status code and 3DS v2.2 transactio
			<p>Risk Engine Adapter (Specifications)</p> <ul style="list-style-type: none"> Added a new parameters to AReq Data Elements.
[29/06/2022]	9.1.1	9.1.1:1	<p>Device Management (Admin UI)</p> <ul style="list-style-type: none"> Added <code>\$tokenlifetime</code> to SMS Template.
			<p>Remote Messaging (Specifications)</p> <ul style="list-style-type: none"> Changed Key Algorithm from DESede to AES.
			<p>Decoupled Authentication Adapter (Specifications)</p> <ul style="list-style-type: none"> Added Current Supported Versions.

Date	AA Ver	Doc Ver	Change Details
------	--------	---------	----------------

[Out of Band \(OOB\) Authentication Adapter \(Specifications\)](#)

 Added **Current Supported Versions**.

[Risk Engine Adapter \(Specifications\)](#)

 Added **Current Supported Versions**.


[08/04/2022]

9.1.0

9.1.0:1

[Installation \(Installation Guide\)](#)

 Removed User Registration Requests URL Extension in [Registration](#)

 Added new configuration parameters **EUB_REPORT** and **SKIP_CARDEXP_VALIDATION** in [Common Configuration Parameters](#).

[Issuer Management \(Admin UI\)](#)

 Added **Auto Report Settings** to [Issuer Details](#).

[Risk Management \(Admin UI\)](#)

 Changed [Edit Risk Adapter](#).

[OOB Management \(Admin UI\)](#)


 Separated [Edit OOB Adapter](#) from [Register OOB Adapter](#).

[Transactions \(Admin UI\)](#)

 Added **RReq status reason**, **Risk score**, and **Risk decision** descriptive [Additional 3-D Secure 2 Fields](#).

[Remote Messaging \(Specifications\)](#)

 Changed the description of [VerifyRegistration](#)

 Added **HeaderParams**, **ExtensionParams**, and **AdditionalParams** to [VerifyRegReq](#)


 Added **threeDSRequestorAppURL** and **threeDSRequestorAuthentic**


[Table 4 - Transaction](#)

 Added **RiskAction**, **RiskAuthType**, and **RiskMessage** to [Table 5 - Ve](#)

[Out of Band \(OOB\) Authentication Adapter \(Specifications\)](#)







 Changed the description of **acctNumber** in [Transactioninfo Data El](#)

 Added **threeDSRequestorAuthenticationInd** and **last4Digits** to [Tran Data Elements](#)

 Added **authenticationMethod** to [OobRequestChallengeResult Data OobAuthenticationResult Data Elements](#).


Date	AA Ver	Doc Ver	Change Details
------	--------	---------	----------------

Risk Engine Adapter (Specifications)


-  Added **sendTransactionResult** to **Adapter interface methods**
-  Added **Send Transaction Result** section
-  Added **referenceData** to **AssessmentResult Data Elements**
-  Updated **Accepted Value** of **transStatus** and **transStatusReason** in **AReqWithTransStatus Data Elements**
-  Added **acsTransID** to **AdditionalInfo Data Elements**
-  Added **AdapterTransactionResult Data Elements, AdapterAuthRes Elements, and AcsRenderingType Data Elements.**

[27/01/2022] 9.0.10 9.0.10:1


Remote Messaging (Specifications)

-  Changed accept value of **threeDSRequestorAuthenticationInd, threeDSRequestorChallengeInd, and threeRIInd** in **Table 12 - Additiona**


Response Codes (Specifications)

-  Added new page to explain the **ACS behaviours** in term of the CAAS response received.

Decoupled Authentication Adapter (Specifications)

-  Added diagrams for process of Decoupled Authentication.

Out of Band (OOB) Authentication Adapter (Specifications)

-  Added diagrams for process of OOB Authentication.

Codes (Transaction Status Codes)

-  Updated **3DS v2.1 transaction status code** and **3DS v2.2 transactio**

[23/12/2021] 9.0.9 9.0.9:1

Issuers (Admin UI)

-  Added KCV in **Import Key** and **Export Data Key.**

[13/12/2021] 9.0.8 9.0.8:1

Codes (Transaction Status Codes)

-  Updated **3DS v2.1 transaction status code**
-  Added **3DS v2.2 transaction status code.**

Codes (RReq Authentication Method Codes)

-  Added **Authentication Method 97-99** in **RReq Authentication Metho**

Migrate to Data Key Utility (Admin UI)

-  Changed **Running the Utility** to have thread selection.

Date	AA Ver	Doc Ver	Change Details
[08/11/2021]	9.0.7	9.0.7:1	<p>Installation (Installation Guide)</p> <ul style="list-style-type: none"> Added new configuration parameter MD_VALIDATION_3DS1 in Cor Configuration Parameters.
[22/10/2021]	9.0.6	9.0.6:1	<p>Out of Band (OOB) Authentication Adapter (Specifications)</p> <ul style="list-style-type: none"> Added URL for callbackUrl in AdditionalInfo Data Elements. <p>Decoupled Authentication Adapter (Specifications)</p> <ul style="list-style-type: none"> Added URL for callbackUrl in AdditionalInfo Data Elements.
[15/10/2021]	9.0.5	9.0.5:1	<p>Issuers (Admin UI)</p> <ul style="list-style-type: none"> Added KEK alias in Import Key Changed Key value format in Import Key Added new formats for Key value format in Export Data Key. <p>Remote Messaging (Specifications)</p> <ul style="list-style-type: none"> Added Decoupled Authentication to AuthTypeSup in Table 6 - Card callBack in Table 14 - InitAuthReq. <p>Out of Band (OOB) Authentication Adapter (Specifications)</p> <ul style="list-style-type: none"> Changed version in Sample response in Get OOB Adapter Informati
[06/09/2021]	9.0.4	9.0.4:1	<p>Installation (Installation Guide)</p> <ul style="list-style-type: none"> Added new configuration parameters IGNORE_DTD_ORDER_3DS1 a PURCHASE_DATE_ACCEPT_BALANCE in Common Configuration Parai <p>Decoupled Authentication Adapter (Specifications)</p> <ul style="list-style-type: none"> Added new page: Decoupled Authentication Adapter.
[16/08/2021]	9.0.3	9.0.3:1	<p>Installation (Installation Guide)</p> <ul style="list-style-type: none"> Added new steps in Pre Installation Configurations and New Installk <p>Issuers (Admin UI)</p> <ul style="list-style-type: none"> Added new section: Import Key.
			<p>Whitelisting (Specifications)</p> <ul style="list-style-type: none"> Added new page: Whitelisting.

Date	AA Ver	Doc Ver	Change Details
[30/07/2021]	9.0.0	9.0.0:1	<p>Product Architecture (Installation Guide)</p> <ul style="list-style-type: none"> + Added Payer Authentication Server, Decoupled Authentication and Whitelisting Server in Internal Components Δ Changed Authentication Server (3DS2) and Challenge Server (3DS: Components) Δ Changed Logical view of ActiveAccess diagram.
			<p>External Components (Installation Guide)</p> <ul style="list-style-type: none"> Δ Changed the SQL commands in Find Transactions Performance + Added OOB and Decoupled Authentication in Two-Factor Authentication
			<p>Installation (Installation Guide)</p> <ul style="list-style-type: none"> X Removed AA_Administration, MIA_DB_DESede key aliases, and the alias (e.g. Card< Issuer_ID >) in Prerequisites and Installation of Internal Components + Added new step for removing enrolment.war in Upgrades + Added Whitelisting in Deploying WAR packages and Installation of Internal Components + Added an important notice in Post Installation + Added Whitelist Server X Removed Module in Additional Administration Server Configuration
			<p>About the Issuer Administration Server (Admin UI)</p> <ul style="list-style-type: none"> + Added Note in Login.
			<p>Settings (Admin UI)</p> <ul style="list-style-type: none"> + Added Whitelisting server URL in Settings.
			<p>System Management (Admin UI)</p> <ul style="list-style-type: none"> + Added Visa CEMEA region in New Issuer Group, Issuer Group Detail + Added notes in Issuer Details Δ Changed notes in Issuer Details + Added Whitelisting in BIN Management + Added Decoupled Authenticator in Edit Device Parameters.
			<p>About Authentication Management (Admin UI)</p> <ul style="list-style-type: none"> + Added Decoupled Authenticator Management to About Authentication Management.
			<p>Device Management (Admin UI)</p> <ul style="list-style-type: none"> X Removed all instances of CAP and RSA device types.

Date	AA Ver	Doc Ver	Change Details
------	--------	---------	----------------

Risk Management (Admin UI)

 Added **Adapter ID** and **Generate** in [Register Risk Adapter](#).

OOB Management (Admin UI)

 Added **Adapter ID** and **Generate** in [Register / Edit OOB Adapter](#).

Decoupled Authenticator Management (Admin UI)

 Added new page: [Decoupled Authenticator Management](#).

Security (Admin UI)


 Added new section: [Decoupled Authenticator Certificate](#).

Migrate to Data Key Utility (Admin UI)

 Added new page: [Migrate to Data Key Utility](#).

Issuers (Admin UI)

 Added **Name on card verification** in [Local Issuer Settings](#)

 Added **ACS Reference Number** in [Provider Settings](#)


 Added displayed key details for **General keys** in [Key Management](#)

 Changed **Info** in [New Key](#).

Cards (Admin UI)

 Added **Decoupled Authenticator** in [Find Card](#)

 Added **Whitelisting** in [Cards Details](#)

 Added new section: [Whitelisting](#)

 Removed sections: **Find User** and **New User** in [Cards](#).

Transactions (Admin UI)

 Changed **3-D Secure version** in [Search Fields](#)

 Added **Frictionless by review** in [Transaction Details](#)

 Removed section: **Find ActiveDevice** in [Transactions](#).

Reports (Admin UI)

 Added **Decoupled Authenticator** in [Card Summary](#)

 Added new section: [Device Summary](#)














 Removed sections: **User Summary**, **User Authentication**, **User Activ Enrolment Activity** in [Reports](#).

SMS via JMS Messaging (Specifications)

 Changed **Tag** of **message_payload** in [Optional Parameters](#).

Date	AA Ver	Doc Ver	Change Details
			<p>Out of Band (OOB) Authentication Adapter (Specifications)</p> <ul style="list-style-type: none"> + Added threeDSRequestorAppURL, callbackUrl and instruction to OOB) Authentication Adapter.
			<p>Codes (Transaction Status Codes)</p> <ul style="list-style-type: none"> + Added new conditions in Transaction Status Codes.
			<p>Codes (RReq Authentication Method Codes)</p> <ul style="list-style-type: none"> + Added 11 = PUSH CONFIRMATION in RReq Authentication Method
			<ul style="list-style-type: none"> X Removed all instances of ActiveDevice/User Authentication X Removed all instances of Enrolment Server X Removed all instances of CAP and RSA device types.
[17/06/2021]	8.5.8	8.5.8:1	<p>External Components (Installation Guide)</p> <ul style="list-style-type: none"> + Added note regarding Tomcat 7 in Application Server
			<p>Installation (Installation Guide)</p> <ul style="list-style-type: none"> + Added new configuration parameter AMOUNT_FORMATTER in Corr Configuration Parameters
			<p>Issuers (Admin UI)</p> <ul style="list-style-type: none"> + Added note in Upload Registration Files
			<p>Cards (Admin UI)</p> <ul style="list-style-type: none"> + Added note in New SMS Device
			<p>Local Messaging (Specifications)</p> <ul style="list-style-type: none"> + Added acceptable values for Status in Update Registration Request
[30/04/2021]	8.5.6	8.5.6:1	<p>SMS via JMS Messaging (Specifications)</p> <ul style="list-style-type: none"> + Added Tag and Size columns in Optional Parameters Δ Changed all values in Type column in Optional Parameters + Added new field names in Optional Parameters + Added examples for CLIENTID in Examples.
[05/02/2021]	8.5.3	8.5.3:1	<p>Installation (Installation Guide)</p> <ul style="list-style-type: none"> + Added WS_POOL to ActiveAccess Configuration File.




Date	AA Ver	Doc Ver	Change Details
18/12/2020	8.5.0	8.5.0:1	<p>Product Architecture (Installation Guide)</p> <ul style="list-style-type: none"> + Added Oracle WebLogic Server 14c and Database Oracle 19c in Hardware Software Requirements.
			<p>External Components (Installation Guide)</p> <ul style="list-style-type: none"> + Added additional steps for Oracle 19c in Oracle Database.
			<p>Installation (Installation Guide)</p> <ul style="list-style-type: none"> Δ Changes made to Prerequisites + Added installation steps for Upgrades to v8.5.x and later + Added new configuration parameters MASTER_HSM_LIB_DIR and MASTER_HSM_SLOT to Common Configuration Parameters Δ Changes made to Installation of Individual Components.
			<p>Risk Management (Admin UI)</p> <ul style="list-style-type: none"> + Added details about authentication method and Score range for friction review in Add/Edit Risk Chain.
			<p>Servers (Admin UI)</p> <ul style="list-style-type: none"> + Added new section Edit ACS Server.
			<p>Key Retiring Utility (Admin UI)</p> <ul style="list-style-type: none"> Δ Changes made to Retiring keys automatically.
			<p>Issuers (Admin UI)</p> <ul style="list-style-type: none"> Δ Changes made to the description of Key Management + Added Export, KeyStore type and a note for Delete to Key Management + Added HMAC keys and an Info box to New Key + Added Export and KeyStore type to Key Management + Added KeyStore type to Key Details ✗ Removed New Key link from Key Details + Added new section Export Data Key.
			<p>Remote Messaging (Specifications)</p> <ul style="list-style-type: none"> + Added purchaseDate to OobInfo in Table 14 - InitAuthReq + Added item 6 to Code in Table 17 - VerifyAuth.
			<p>Out of Band (OOB) Authentication Adapter (Specifications)</p> <ul style="list-style-type: none"> + Added NOT_AUTHENTICATED_END to OobAuthenticationResult Data

Date	AA Ver	Doc Ver	Change Details
			<p>Risk Engine Adapter (Specifications)  Added frictionless with review in How RBA works.</p>
[25/11/2020]	8.4.4	8.4.4:1	<p>Remote Messaging (Specifications)  Added Attributes and Descriptions to Table 4 - Transaction, Table 1 PreAuthReq, Table 11 - HeaderParams and Table 12 - AdditionalParams.</p>
[29/10/2020]	8.4.1	8.4.1:1	<p>System Management (ACS URL)  Added details to ACS challenge URL for OOB's WebSocket and callt 3-D Secure 2 Settings.</p>
			<p>System Management (Issuer Management)  Added a note to ACS Challenge URL for OOB's WebSocket and callt New Issuer Group, Issuer Group Details and Issuer Details.</p>
			<p>Remote Messaging (Specifications)  Added notes to AuthType and AuthTypeSup at Table 6 - CardInfo.</p>
			<p>Codes (RReq Authentication Method Codes)  Added new page: RReq Authentication Method Codes.</p>
[16/10/2020]	8.4.0	8.4.0:1	<p>Settings (Admin UI)  Added a note to Log level in Settings.</p>
			<p>Issuer Management (Admin UI)  Added Verified by Visa CAVV format and Visa Secure CAVV format to Issuer Group and Issuer Details  Added IAV generation algorithm, Verified by Visa CAVV format and CAVV format to Issuer Group Details  Added ACS URL to New Issuer.</p>
			<p>Issuers (Admin UI)  Added a note to Custom pages.</p>
			<p>Transactions (Admin UI)  Added Failed reason and IAV generation algorithm to Transaction I</p>
			<p>Remote Messaging (Specifications)  Added callBack to Table 14 - InitAuthReq.</p>

Date	AA Ver	Doc Ver	Change Details
			<p>Out of Band (OOB) Authentication Adapter (Specifications)</p> <ul style="list-style-type: none"> Added purchaseDate to TransactionInfo Data Elements.
29/05/2020	8.3.0	8.3.0:1	<p>Installation (Installation Guide)</p> <ul style="list-style-type: none"> Added an option to change RMI port in Additional Administration Settings Configuration Parameters.
			<p>Issuer Management (Admin UI)</p> <ul style="list-style-type: none"> Added IAV generation algorithm to New Issuer Group Added a warning to Supported devices in ActiveDevice Settings.
			<p>Device Management (Admin UI)</p> <ul style="list-style-type: none"> Added OOB to Edit Default Device Parameters and OOB.
			<p>Risk Management (Admin UI)</p> <ul style="list-style-type: none"> Added Upload Connector Encryption Key.
			<p>OOB Management (Admin UI)</p> <ul style="list-style-type: none"> Added Upload Connector Encryption Key.
			<p>Cards (Admin UI)</p> <ul style="list-style-type: none"> Added Deactivated device type to Status in Assigned Devices.
			<p>CardLoader (Specifications)</p> <ul style="list-style-type: none"> Added encryption of sensitive data to Log directory in Open dialog for XML file to verify.
			<p>Remote Messaging (Specifications)</p> <ul style="list-style-type: none"> Added acsTransId, threeDSTransId and dsTransId to Table 4 - Transactions
			<p>Out of Band (OOB) Authentication Adapter (Specifications)</p> <ul style="list-style-type: none"> Added samples to Get OOB Adapter Information and Request OOB Authentication Added new Length for acctNumber in TransactionInfo Data Elements Added cardholderName in CardHolderInfo Data Elements Added Message Inclusion for clientId and deviceId in Additional Data Elements.








Date	AA Ver	Doc Ver	Change Details
------	--------	---------	----------------

Risk Engine Adapter (Specifications)

-  Added **AReqWithTransStatus Data Elements**
-  Added new **Length** for **acctNumber** and **cardholderName** in **AReq D**
-  Added **Message Inclusion** for **clientId** in **AdditionalInfo Data Elen**


24/04/2020 8.2.3 8.2.3:1

Risk Engine Adapter (Specifications)

-  Changes made to **Parameter Data Elements**
-  Change made to **Condition Data Elements**
-  Added **ValueType Data Elements, ConditionAssessor Data Element TxCallback Data Elements**
-  Changes made to **ConditionValue Data Elements**
-  Added **Range Data Elements**
-  Change made to **messageExtension Data Elements**
-  Removed **AdapterRiskAssessmentOutput Data Elements.**

17/4/2020 8.2.0 8.2.0:2

Remote Messaging (Specifications)

-  Added attribute lengths to the **Usage** column of **Table 2 - VerifyRegf Card, Table 4 - Transaction and Table 14 - InitAuthReq.**

Out of Band (OOB) Authentication Adapter (Specifications)

-  Changes made to **Out of Band (OOB) Authentication Adapter (Spec**

28/02/2020 8.2.0 8.2.0:1

Installation (Installation Guide)

-  Added **TOMCAT_KEYSTORE, TOMCAT_KEYSTORE_PASS, TOMCAT_TRUSTSTORE and TOMCAT_TRUSTSTORE_PASS** to **configu**

Issuer Management (Admin UI)

-  Added **IAV generation algorithm** to **Issuer Details.**

Risk Management (Admin UI)

-  Change made to **Score range for device** in **Add / Edit Risk Chain.**

Servers (Admin UI)



-  Added **OOB info template** to **Edit CAAS Server.**

Issuers (Admin UI)



-  Added **Maximum interaction** to **Remote Issuer Settings.**

Date	AA Ver	Doc Ver	Change Details
------	--------	---------	----------------













Cards (Admin UI)

-  Added **Client ID** to [Find Card](#) and [Card Details](#)
-  Added note to **Expiry date** in [New Card](#) and [Card Details](#).



Transactions (Admin UI)

-  Added **Client ID** to [Find 3-D Secure](#)
-  Added **Risk decision** and **Client ID** to [Transaction Details](#).










Local Messaging (Specifications)

-   Additions & changes made for **Client ID** to:
 -  [Sample pre-registration request](#)
 -  [Sample final registration request for traditional 3-D Secure](#)
 -  [Sample final registration request for two-factor authentication over](#)
 -  [Sample update registration request](#)
-  [Card Device Update Request](#)
-  [Sample Registration Notification](#)
-  [Sample Device Update Notification](#)
-  [Sample Opt-Out Notification](#)
-  [Sample Lock Notification](#)
-  [Cardholder Registration DTD](#).

Remote Messaging (Specifications)

-  Added **LanCode** to [Table 3 - Card](#) and [Table 6 - CardInfo](#)
-  Added **twoFA** to [Table 6 - CardInfo](#).

Out of Band (OOB) Authentication Adapter (Specifications)

-  Changes made to [Adapter Interface Methods](#)
-  Change made to **Response Description** of [Get OOB Adapter inform](#)
-  Change made to **Response Description** of [Request OOB Challenge](#)
-  Change made to **Request Method** and **Response Description** of [Get authentication result](#)
-  Added [AdapterInfo Data Elements](#)
-  Change made to **acctNumber** **Description** in [TransactionInfo Data E](#)
-  Added **deviceId** to [AdditionalInfo Data Elements](#)
-  [OobRequestChallengeResult Data Elements](#) added
-  [OobAuthenticationResult Data Elements](#) added.

10/01/2020

8.1.2

8.1.2:1

Installation (Installation Guide)


-  Added **JSON Response Elements** in [ACS](#), [MIA](#), [Registration](#) and [Enr](#)

Date	AA Ver	Doc Ver	Change Details
------	--------	---------	----------------






Profile Management (Admin UI)

 Change made to **2-factor authentication** login option in [User Profile](#)

Remote Messaging (Specifications)

 Change made to **Description** and **Sample Value** of **AuthType** in [Pre Authentication Response](#).

Local Messaging (Specifications)


-  Changes made to **Request** and **Response** of **Cardholder Registratio**
-  Changes made to **Request** and **Response** of **Notification**
-  Changes made to **Critical Card Data Encryption and Decryption**
-  Changes made to **Cardholder Registration**
-  Changes made to **Notification**.

06/12/2019

8.1.1

8.1.1:1



Installation (Installation Guide)

 Added monitoring of the availability of **ACS**, **MIA**, **Registration** and **E**






Device Management (Admin UI)

 Added **Plus (+) prefix** in **SMS Center**.

Issuers (Admin UI)

-  Change made to **Language selection during authentication**: add *aut process of 3-D Secure 1*
-  Change made to **Provider Settings**: add JSON format examples.

Local Messaging (Specifications)

-  Change made to **Request**: Update EncVectorIV
-  Update Sample final registration request for **traditional 3-D Secure**
-  Change made to **Cancel Registration Request**: Make name attribute optional
-  Change made to **Critical Card Data Encryption and Decryption**: Char algorithm to AES
-  Change made to **Cardholder Registration DTD**: Change **Name** **CDATA**

Out of Band (OOB) Authentication Adapter (Specifications)

 Added **Swagger API URL** to **Restful API** version of **OOB Adapter**.

Risk Engine Adapter (Specifications)

 Added **Swagger API URL** to **RESTful API Risk Adapter**.

Date	AA Ver	Doc Ver	Change Details
------	--------	---------	----------------

Codes (Error Codes)

+ Added Error codes to [Server Error Codes](#).

15/11/2019

8.1.0

8.1.0:1

Installation (Installation Guide)

X Removed **HSM_LIB_DIR** parameter from [Upgrades to v8.x.x](#).

System Management (Admin UI)

Δ Change made to [New Issuer Group](#), [Issuer Group Details](#), and [Issue](#) Changes **MAC Algorithm** to **3DS1 only** and changed **Use parent cert public and encryption keys**.

Δ Change made to [Public & Encryption Key Management](#): Change key **AES**.

Security (Admin UI)

+ Added new section: [SDK certificate](#).

Cards (Admin UI)

Δ Change made to [New Card](#): The card Expiry date is mandatory for M

Risk Engine Adapter (Specifications)

X Removed one method of **TxCallback** from [Parameter Data Elemen](#)

X Removed **resultWhenTransmissionError** from [RemoteCondition D](#)

+ Added **range** field into [ConditionValue Data Elements](#)

06/11/2019

8.0.3

8.0.3:1

Risk Engine Adapter (Specifications)

Δ Change made to [AdapterInfo Data Elements](#): Removed round brack **Token Sample Value**.

Δ Change made to [AssessmentResult Data Elements](#): Change the des **whatToDoNext**

+ **range** field added into [ConditionValue Data Elements](#)

09/10/2019

8.0.2

8.0.2:2

Remote Messaging (Specifications)

Δ Change made to [Table 16 - VerifyAuthReq](#): Removed round brackets **Token Sample Value**.

Out of Band (OOB) Authentication Adapter (Specifications)

+ Change made to [oobAuthenticationResult](#): Add **PENDING** as a valid

Risk Engine Adapter (Specifications)

Δ Changed [Risk chain setup diagram](#).

Date	AA Ver	Doc Ver	Change Details
02/10/2019	8.0.2	8.0.2:1	<p>Installation (Installation Guide)</p> <ul style="list-style-type: none"> △ Changes made to Upgrades to v8.x.x: Addition of HSM_LIB_DIR parameter updates to JAR files which must be removed. + Addition of HSM_LIB_DIR, HSM_SLOT, TESTING_MODE, PROVIDER TEST_AUTH_SERVER, and ACS_REFERENCE_NUMBER_TEST to Comrn configuration parameters. <hr/> <p>Remote Messaging (Specifications)</p> <ul style="list-style-type: none"> + Added Response code = 3. <hr/> <p>Codes (Transaction Status Codes)</p> <ul style="list-style-type: none"> + Added new page: Transaction Status Codes.
05/09/2019	8.0.1	8.0.1:1	<p>Product Architecture (Installation Guide)</p> <ul style="list-style-type: none"> △ Added Disaster Recovery and Clustering diagrams. <hr/> <p>Installation (Installation Guide)</p> <ul style="list-style-type: none"> △ Changes made to Upgrades to v8.0.x and New installations. <hr/> <p>Security (Admin UI)</p> <ul style="list-style-type: none"> + Added new Key type field to Create Certificate Request. <hr/> <p>Risk Engine Adapter (Specifications)</p> <ul style="list-style-type: none"> △ Changed Validator field description in ParameterDataElements △ Changed PreviousData field format in RemoteAssessmentRequest Elements + Added AReqWithTransStatusDataElements △ Changed ThreeDSCompInd and ThreeDSRequestorAuthenticationI AReq Data Elements. <hr/> <p>Remote Messaging (Specifications)</p> <ul style="list-style-type: none"> △ InitAuthReq table: Usage of oobInfo changed. <hr/> <p>Out of Band (OOB) Authentication Adapter (Specifications)</p> <ul style="list-style-type: none"> △ Change the URL in Restful API version of OOB Adapter △ Change NOT__AUTHENTICATED to NOT_AUTHENTICATED △ Update MobilePhone Data Elements, HomePhone Data Elements, and 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
-  Added [Challenge Server \(3DS2\)](#).
-  Added [Risk Engine Adapter](#)
-  Added [Out of Band \(OOB\) Authentication Adapter](#)
-  Changed [Logical view of ActiveAccess](#) diagram
-  Changed [Hardware and Software Requirements](#)
-  Removed references to **RuPay** components.





External Components (Installation Guide)

-  [Application Server](#) dependency removed, supports compatible Java 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](#): Added **OOB** as a supported device.





Security (Admin UI)

-  Added [Directory Server Certificate](#) section
-  Added [OOB Certificate](#) section
-  Added [Risk Certificate](#) section.

Issuers (Admin UI)


-  [Providers](#) parameters moved to a new page, and linked, from the **Se**
- New fields added.

Rules (Admin UI)

-  [Rule Management](#) section replaces previous **Authentication Exempt**
- Registration** sections
- Tabs for:
-  [Registration](#) previously **Force Registration** tab under **Rules**
-  [Authentication](#) previously **Authentication Exemption** tab under **Rules**
-  [Settings](#).

Date	AA Ver	Doc Ver	Change Details
------	--------	---------	----------------


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

Admins (Admin UI)

 **Admin User Details** and **User Profile**: added **2-factor authentication**

Local Messaging (Specifications)

 Changed **Final Registration Request** with OOB device registration re

Remote Messaging (Specifications)

 Added **issuerName** and **theeDSProtocolVersion** in **Transaction** tabl

 Added **HeaderParams** table

 Added **AdditionalParams** table


 Added **AuthType** in **PreAuthResp** table

 Added new OTP types for **AuthType** and **oobInfo** in **InitAuthReq** tab


 **Sample Request Response**: changed **CVD** to NULL.


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 t [Introduction](#) page.

To print a section: click the  button on that section.

Tip: hovering your mouse over the  button will let you see which sect printed.

 See [Documentation change details](#) for full details of the changes in documentation moving from PDF to online format.


26/02/2019

7.4.6

7.4.6.1

Remote Messaging

 Added **AuthType** in **initAuthReq** table

 Changed RegToken definition in **CardInfo** table.

Date	AA Ver	Doc Ver	Change Details
06/07/2018	7.4.0	7.4.0:1	<ul style="list-style-type: none"><li data-bbox="683 304 1492 383">+ Addition of options in System Management > Settings to allow adr specified access levels to view Card Number (plaintext) and AAV/CAV<li data-bbox="683 389 1182 427">Δ Changed description of Soft Launch List<li data-bbox="683 434 1321 472">+ Addition of ActiveAccess Error Codes in Appendix A.

Documentation change details

Online Main Menu	Sub Menus	Previous PDF Document / Latest Changes
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

Online Main Menu	Sub Menus	Previous PDF Document / Latest Changes
	- Devices	AA12, previously Device Management
	- Risk	New
	- OOB	New
	Public & Encryption Key Management	AA12
	Exchange Configuration	AA12
	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
	Servers	AA12
	- MIA Servers	AA12
	- Access Control Servers (ACS)	AA12
	- Authentication History Servers (AHS)	AA12

Online Main Menu	Sub Menus	Previous PDF Document / Latest Changes
	- Centralised Authentication and Authorisation Servers (CAAS)	AA12
	- Out of Band Authentication Servers (OOB)	AA12
	- Risk Servers	AA12
	Utilities >	
	Utilities	AA12
	Key Retiring Utility	AA12
	Issuers	AA12
	- Settings	AA12
	- Upload Registration Files	AA12
	- Custom Pages	AA12
	- Key Management	AA12
	Rules	
	- Registration	AA12
	-- Amount Threshold	
	-- Merchant Blacklist	
	- Authentication	AA12
	-- Soft Launch List Rule	
	-- Merchant Whitelist Rule	
	-- Merchant Watchlist	
	-- Location Watchlist	
	- Location Watchlist Search Results	
	-- Domestic & International Transaction Amount Threshold	
	-- Stand-In Transaction Threshold	

Online Main Menu	Sub Menus	Previous PDF Document / Latest Changes
	- Settings	AA12
	Admin Users	AA12
	Cards	AA12 Users renamed to Cards
	Transactions	AA12
	Reporting	AA12
	Audit Log	AA12
	Profile Management_	AA12
Specifications		
	Local Messaging >	
	Local Messaging	AA61-Messaging Specification.pdf
	Card Loader	AA32-GPayments Card Loader.pdf
	Remote Messaging >	
	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 Appendix B
	Sample Request Response	AA71-Remote System Messaging Specification.pdf Appendix C
	SMS via JMS	AA83-ActiveAccess - SMS via JMS Library.pdf
	Out of Band Authentication Adapter	New

Online Main Menu	Sub Menus	Previous PDF Document / Latest Changes
	Risk Engine Adapter	New
Error Codes		AA12 - Appendix A
Glossary		AA12
Document Control>		
	Document Control	AA12
	Documentation Changes (<i>this page</i>)	New
Release Notes		Previously included in the ActiveAccess package
Legal Notices		AA12

Release Notes

ActiveAccess v11.1.14

[27/02/2026]

[EOL: Two years after the subsequent version's release date]

Type	Internal ID(s)	External ID(s)	Description	Component
FIX	#1728	#13992	The deviceld field is not present in the body of the challenge-result request during Alternative Out-of-Band Flow	Access Control Server
FIX	#1738	#14044	Update Transaction Status in the Response	Access Control Server
FIX	#1742	#14057	Lock the card after reaching the maximum number of unsuccessful attempts during Alternative Out-of-Band Flow	Access Control Server
ENHANCEMENT	#1747	#13652	Move BIN attack message extension processing from the adapter to the ACS	Access Control Server

ActiveAccess v11.1.13

[18/12/2025]

[EOL: 27/02/2028]

Type	Internal ID(s)	External ID(s)	Description	Component
FIX	#1568	#13348	Incorrect length of <code>MERAUTHDAILYREPORT.MERNAME</code>	Issuer Administration
FIX	#1569	#13366	Password policy for admin users with two-factor authentication enabled	Access Control Server

Type	Internal ID(s)	External ID(s)	Description	Component
FIX	#1599	#13246	MigrateToDataKeyUtility issues affecting operations on the archive database	Access Control Server
FIX	#1701	#13906	threeDSMethodData handling failed with HTTP 500	Access Control Server
FIX	#1710	#13921	Missing key alias for PROSTIR	Access Control Server
FIX	#1719	#13942	Allow the ACS fallback to be activated or deactivated correctly from configuration	Access Control Server
FIX	#1720	#13943	Ensure the ACS correctly handles a second CReq when authentication is finalized but the CRes has not been sent	Access Control Server
FIX	#1724	#13974	Cardloader failure when using Java 1.8.0_441	Access Control Server
ENHANCEMENT	#1213	#10265	Support stand-in transactions during the verifyReg step to align the ACS behavior with CAAS processing	Access Control Server
ENHANCEMENT	#1615	#13561	CAAS connection timeout issues	Access Control Server
ENHANCEMENT	#1619	#13543	Optimize 3RI transaction processing	Access Control Server
ENHANCEMENT	#1634	#13652	Mastercard Transaction Status Reason code for new BIN attack message extension	Access Control Server
ENHANCEMENT	#1663	#13753	Add support for 3RI Indicator 03 for Visa transactions in the CEMEA region	Access Control Server, Issuer Administration
ENHANCEMENT	#1674	#13797	Use of Challenge Cancellation Indicator 06 for Visa transaction	Access Control Server

Type	Internal ID(s)	External ID(s)	Description	Component
ENHANCEMENT	#1723	#13978	Use correct MasterKey configured in .properties file	Access Control Server
ENHANCEMENT	#1729	#13995	Encrypt TOTP secrets in the <code>admin.otpsecretkey</code> table	Access Control Server

ActiveAccess v11.1.12

[10/11/2025]

[EOL: 18/12/2027]

Type	Internal ID(s)	External ID(s)	Description	Component
FIX	#1703	#13915	Duplicate <code>requestChallenge</code> for <code>NOT_AUTHENTICATED</code> status	Access Control Server
FIX	#1707	#13920, #13923	Incorrect Transaction Reason Status for <code>NOT_AUTHENTICATED_END</code>	Access Control Server
FIX	#1708	#13924	Incorrect Transaction Reason Status when <code>DISABLE_STAND_IN_TRANS_FOR_CAAS</code> is configured	Access Control Server
ENHANCEMENT	#1706	#13919	Enhance <code>CReq</code> consistency verification to consider the decoded values	Access Control Server
ENHANCEMENT	#1711	#13925	OOB Notification Enhancement	Access Control Server

ActiveAccess v11.1.11

[14/10/2025]

[EOL: 10/11/2027]

Type	Internal ID(s)	External ID(s)	Description	Component
ENHANCEMENT	#1680	#13668	OOB Flow update	Access Control Server, Authentication Page

ActiveAccess v11.1.10 (Patch)

[12/09/2025]

[EOL: 14/10/2027]

Type	Internal ID(s)	External ID(s)	Description	Component
FIX	#1685	#13855	Scenario where card has OOB and more than one SMS device assigned	Access Control Server
FIX	#1686	#13854	Incorrect value of AD_Mobile field	Access Control Server

ActiveAccess v11.1.9 (Patch)

[21/08/2025]

[EOL: 12/09/2027]

Type	Internal ID(s)	External ID(s)	Description	Component
FIX	#1677	#13800	NullPointerException with Authentication Method List	Access Control Server
FIX	#1681	#13804	Incorrect Transaction Statuses for SMS OTP	Access Control Server

ActiveAccess v11.1.8

[25/07/2025]

[EOL: 21/08/2027]

Type	Internal ID(s)	External ID(s)	Description	Component
ENHANCEMENT	#1613	#13487	PROSTIR Updates according to the NBU Mandated Regulations	Access Control Server
ENHANCEMENT	#1622	#13545	Added ThreeDSMethod validation configuration option	Access Control Server
ENHANCEMENT	#1645	#13697	Added fields to ARCHIVE scheme	Access Control Server
FIX	#1621	#13581	AppBased authentication page carriage issue	Access Control Server
FIX	#1623	#13447	Feedback on Timer Restart error for SMS code send/resend on the authentication pages with available fallback	Access Control Server, Issuer Administration
FIX	#1624	#13448	Feedback on Problem with switching language on the lock page	Access Control Server, Issuer Administration
FIX	#1641	#13318	Feedback on Mastercard Identity Check RReq=U(09) - incorrect usage	Access Control Server

ActiveAccess v11.1.7

[10/07/2025]

[EOL: 25/07/2027]

Type	Internal ID(s)	External ID(s)	Description	Component
ENHANCEMENT	#1651	#13722	Force Risk Assessment for subsequent 3RI transactions	Access Control Server
ENHANCEMENT	#1654	#13724	The threeDSReqPriorAuthData field is required for VISA 3RI PA operations	Access Control Server
FIX	#1653	#13609	HSM PSE3+ compatibility issue	Access Control Server, Issuer Administration, Registration Server

ActiveAccess v11.1.6

[23/05/2025]

[EOL: 10/07/2027]

Type	Internal ID(s)	External ID(s)	Description	Component
ENHANCEMENT	#1578	#12941	Added support to configure the DS certificate at both the issuer and issuer group levels; Enabled the use of group-level certificates for both DS and SDK certificates.	Issuer Administration, Access Control Server

ActiveAccess v11.1.5

[09/04/2025]

[EOL: 23/05/2027]

Type	Internal ID(s)	External ID(s)	Description	Component
FIX	#1592	#13447	Timer restart issue for SMS code send/resend on the authentication pages with fallback available	Access Control Server, Authentication Page

Type	Internal ID(s)	External ID(s)	Description	Component
FIX	#1593	#13448	Problem with switching language on the lock page	Access Control Server, Authentication Page
ENHANCEMENT	#1571	#13061	Support Bridging MessageExtension V1.0	Access Control Server

ActiveAccess v11.1.4

[07/03/2025]

[EOL: 09/04/2027]

Type	Internal ID(s)	External ID(s)	Description	Component
FIX	#1581	#13402	3DS Method Activation issue	Access Control Server
FIX	#1594	#13442	3RI recurring payments issue	Access Control Server
ENHANCEMENT	#1528	#13151	New version of Visa EMV 3DS Token Extension	Access Control Server
ENHANCEMENT	#1543	#13179	Visa Data Only auto-enablement	Access Control Server
ENHANCEMENT	#1577, #1584, #1585	#13385	3DS Requestor Initiated (3RI) User Guide and Best Practices Implementation	Access Control Server
ENHANCEMENT	#1586	#13424	One-Time Passcode Login Vulnerability	Issuer Administration
ENHANCEMENT	#1595	#13437	Changes to Visa 3D Secure CAVV Processing for issuers when <code>authenticationinfo.authmethod</code> is FIDO	Access Control Server

ActiveAccess v11.1.3

[28/01/2025]

[EOL: 07/03/2027]

Type	Issue Number	External ID	Description	Components
FIX	#1551	#13278	RReq message was resent when session has finalized	Access Control Server, Authentication Page
FIX	#1560	#13297, #13332	Double RReq messages	Access Control Server
FIX	#1561	#13207, #13325	Notification Request Issue	Access Control Server
FIX	#1562	#13328	Card Lock Issue	Authentication Page
FIX	#1563	#13318	Update Mastercard Transaction Status when Status Reason is 09	Access Control Server
FIX	#1565	#13275	Expired transaction issue	Access Control Server
FIX	#1566	#13336	Double getChallengeTimeout calls	Access Control Server, Authentication Page
ENHANCEMENT	#1570	#13382	Add AAV for Mastercard Non-Payment successful challenges	Access Control Server

ActiveAccess v11.1.2

[12/12/2024]

[EOL: 28/01/2027]

Type	Issue Number	External ID	Description	Components
FIX	#1544	#13194	Card lock and automatic unlock during authentication	Access Control Server
FIX	#1549	#13284	Timeout page appears after successful authentication	Access Control Server, Authentication Page
FIX	#1550	#13275	Issue with expired transactions	Access Control Server
FIX	#1552	#13274	Resend OTP timer when the SDK authentication page is loaded	Access Control Server, Authentication Page
FIX	#1555	#13280	Error processing timed-out app-based authentication	Access Control Server
FIX	#1556	#13305	Null value returned in the OTP field	Access Control Server
FIX	#1558	#13303	Resend OTP button not displayed	Authentication Page
ENHANCEMENT	#1548	#13207	Update OOB challenge cancel and timeout requests	Access Control Server
ENHANCEMENT	#1559	#13311	Update select authentication method parser	Access Control Server

ActiveAccess v11.1.1

[18/11/2024]

[EOL: 12/12/2026]

Type	Issue Number	External ID	Description	Components
FIX	#1513	#13021	Issue when displaying Cyrillic characters in the description field	Issuer Administration, Access Control Server
FIX	#1516	#13110	Unable to update device priorities for a local authentication issuer	Issuer Administration, Access Control Server
FIX	#1518	#13112	Authentication page doesn't open if <code>infoText</code> is empty	Authentication Page, Access Control Server
FIX	#1520	#13125	A selection method page is displayed if the risk engine returns device or static password score	Issuer Administration, Access Control Server
FIX	#1522	#13117	The <code>Fallback</code> checkbox doesn't work in issuer settings page	Issuer Administration, Access Control Server
FIX	#1526	#13126	Autosubmission for <code>display link to allow cardholder to switch to fallback</code> parameter	Issuer Administration, Access Control Server
FIX	#1540	#13194	Card lock and automatic unlock during authentication	Issuer Administration, Access Control Server
ENHANCEMENT	#1510, #1530, #1527	#13061	Added the support of parameters for app-to-app redirection and configuration option for each issuer	Issuer Administration, Access Control Server

Type	Issue Number	External ID	Description	Components
ENHANCEMENT	#1532	#13170	Updated Period time before switching to be in seconds	Issuer Administration, Access Control Server
ENHANCEMENT	#1533	#13178	Authentication page for expired transaction	Authentication Page
ENHANCEMENT	#1534	#13185	Some fallback requirements for authentication pages	Authentication Page
ENHANCEMENT	#1538	#13207	Added OOB challenge cancel and timeout request	Access Control Server
ENHANCEMENT	#1539	#13192	OTP autofill from SMS message	Access Control Server

ActiveAccess v11.1.0

[06/09/2024]

[EOL: 18/11/2026]

Type	Issue Number	External ID	Description	Components
FIX	#1387	#12481	Authentication Process Issue for Expired Transaction	Access Control Server
FIX	#1453	#12815	Oracle error during process the utility MigrateToDataKeyUtility	Issuer Administration
FIX	#1480	#12898	Error Occurred during Sending Transaction Result to the PRM Adapter	Access Control Server
FIX	#1483	#12671	Issuer during Processing unfinished operations	Access Control Server

Type	Issue Number	External ID	Description	Components
FIX	#1484	#12935	Error Message during Upgrade	Setup
FIX	#1486	#12929	SESSIONS/HISTORYSESSIONS ISSUENAME missing	Access Control Server
FIX	#1495	#12453	Incorrect Transaction Status	Issuer Administration, Access Control Server
FIX	#1443	#12536	Process \n in challengeInfoText during AppBased Transaction	Access Control Server
ENHANCEMENT	#1456	#12574	OOB Fallback Scenario	Issuer Administration, Access Control Server
ENHANCEMENT	#1491	#12712	HTTP Security Header	Issuer Administration
ENHANCEMENT	#1493	#12786	OTP Page Message Display for Software/Hardware Token	Issuer Administration, Access Control Server
ENHANCEMENT	#1496	#12868	PRM Adapter Enhancement for Message Extension	Risk Adapter

ActiveAccess v11.0.2 (Patch)

[23/09/2024]

[EOL: 18/11/2026]

Type	Issue Number	External ID	Description	Components
FIX	#1524	#13141	IAV Generation failure	Access Control Server
FIX	#1524	#13147	PCAV Generation failure	Access Control Server

ActiveAccess v11.0.1

[16/08/2024]

[EOL: 06/09/2026]

Type	Issue Number	External ID	Description	Components
FIX	#1482	#12642	Transactions got stuck in SESSIONS table	Issuer Administration, Access Control Server
FIX	#1485	#12869	Message signature cannot be verified	Issuer Administration, Access Control Server, Registration Server, Whitelisting Server

ActiveAccess v11.0.0

[12/06/2024]

[EOL: 02/07/2026]

Type	Issue Number	External ID	Description	Components
FIX	#1370	#12383	Incorrect URL path for text fonts	Access Control Server
FIX	#1450	#12682	Technical issue during CReq/ CRes processing	Access Control Server
FIX	#1451	#12750	Vulnerability in jQuery, jQuery UI and datatables.net package	Issuer Administration, Access Control Server, Registration Server, Whitelisting Server
FIX	#1452	#12811	Unable to migrate to data key by MigrateToDataKeyUtility in Archive Database	Issuer Administration
FIX	#1455	#12795	Possibility to change general encryption keys (AA_MASTER and AA_Administration)	Issuer Administration
FIX	#1465, #1478	#12875, #12891	Data Mapping in PRM adapter	Risk adapter

Type	Issue Number	External ID	Description	Components
FIX	#1413	#12523	Sending transactions to RBA for zero amount purchase	Access Control Server
ENHANCEMENT	#1424	#12786	OTP page display message	Access Control Server
ENHANCEMENT	#1442	#12751	Update Oracle JDBC thin client version	Issuer Administration, Access Control Server, Registration Server, Whitelisting Server
ENHANCEMENT	#1445, #1446	#12691	Disable any condition checks when Force Risk Assessment is enabled	Access Control Server
ENHANCEMENT		#12410	Support for Prostir e-Secure	Issuer Administration, Access Control Server, Registration Server, Whitelisting Server

ActiveAccess v10.0.6 (Patch)

[02/07/2024]

[EOL: 16/08/2026]

Type	Issue Number	External ID	Description	Components
FIX	#1482	#12642	Transactions got stuck in SESSIONS table	Issuer Administration, Access Control Server
FIX	#1485	#12869	Message signature cannot be verified	Issuer Administration, Access Control Server, Registration Server, Whitelisting Server

ActiveAccess v10.0.5 (Patch)

[29/05/2024]

[EOL: 12/06/2026]

Type	Issue Number	External ID	Description	Components
FIX	#1471	#12869	Message signature could not be verified	Registration Server

ActiveAccess v10.0.4

[11/04/2024]

[EOL: 29/05/2026]

Type	Issue Number	External ID	Description	Components
FIX	#1433	#12741	Expired transactions stuck in SESSION table	Access Control Server
FIX	#1435	#12744	Incorrect Logs when RRes Timed Out	Access Control Server
ENHANCEMENT	#1400	#12352	Updated MQ Client Libraries version to v9.3.4.1	Issuer Administration, Access Control Server, Registration Server
ENHANCEMENT	#1431	#12688	Updated Custom Pages to Display the Continue button instead of starting Websocket for Mobile Browser	Authentication Page

ActiveAccess v10.0.3

[15/03/2024]

[EOL: 11/04/2026]

Type	Issue Number	External ID	Description	Components
FIX	#1396	#12599	ArchiveProcessor Bug in Archive historySession	Issuer Administration

Type	Issue Number	External ID	Description	Components
FIX	#1399	#12659	Key Export, Import and Activation for Remote Issuers	Issuer Administration
FIX	#1404	#12573	Remove Issuer Group parent keys on Authentication Value Algorithm selection	Issuer Administration
FIX	#1421	#12615, #12700	QR Code Email Sending issue in Edit Profile	Issuer Administration
ENHANCEMENT	#1395	#11987, #12491	Visa Digital Authentication Framework Enhancement	Issuer Administration, Access Control Server

ActiveAccess v10.0.2 (Patch)

[22/02/2024]

[EOL: 15/03/2026]

Type	Issue Number	External ID	Description	Components
FIX	#1407	#12637	Challenge Request padding validation	Issuer Administration, Access Control Server

ActiveAccess v10.0.1 (Patch)

[14/02/2024]

[EOL: 22/02/2026]

Type	Issue Number	External ID	Description	Components
FIX	#1402	#12620	J/Secure CAVV Generation issue	Issuer Administration, Access Control Server

ActiveAccess v10.0.0

[25/01/2024]

[EOL: 14/02/2026]

Type	Issue Number	External ID	Description	Components
ENHANCEMENT	#897	#11044	Support for UnionPay International	Issuer Administration, Access Control Server, Registration Server, Whitelisting Server
FIX	#1210	#11638	Format of SMS in sms_via_jms_log.log	Access Control Server
FIX	#1384	#12462	StartTimer function during OOB authentication	Access Control Server
FIX	#1386	#12371	Incorrect challengeCancel value	Access Control Server
FIX	#1387	#12481	Authentication process issue for expired transactions	Access Control Server
FIX		#12319	Updated Springboot dependency version	Access Control Server, Risk Adapter

ActiveAccess v9.4.1 (Patch)

[29/02/2024]

[EOL: 15/03/2026]

Type	Issue Number	External ID	Description	Components
FIX	#1409	#12615	MIA vulnerability of user enumeration attack	Issuer Administration

Type	Issue Number	External ID	Description	Components
FIX	#1411	#12648	Challenge Request padding validation	Issuer Administration, Access Control Server
FIX	#1412	#12642	Transactions got stuck in SESSIONS table	Issuer Administration, Access Control Server

ActiveAccess v9.4.0

[30/11/2023]

[EOL: 25/01/2026]

Type	Issue Number	External ID	Description	Components
ENHANCEMENT	#481	#8857	Added Informational Data parameter configuration	Issuer Administration, Access Control Server
ENHANCEMENT	#536		Added the option for RBA callback to query archive	Issuer Administration, Access Control Server
ENHANCEMENT	#648	#9233	Removed struts-1.2.9.jar file that is not in use	Setup, Issuer Administration, Access Control Server, Registration Server, Whitelisting Server
ENHANCEMENT	#785		Added ping for Whitelisting Server availability monitor	Whitelisting Server

Type	Issue Number	External ID	Description	Components
ENHANCEMENT	#789	#9768	Added option to config the balance of purchaseDate validation	Issuer Administration, Access Control Server
ENHANCEMENT	#1000		Made DeviceAcknowledgement message extension configurable	Issuer Administration, Access Control Server
ENHANCEMENT	#1034	#10802	Added relationship between card and merchant in Whitelisting Server	Whitelisting Server
ENHANCEMENT	#1147	#11405	Added currency exchange rate for each issuer	Issuer Administration
ENHANCEMENT	#1181	#11214	Added a lifetime configuration for RReq messages in the queue	Issuer Administration, Access Control Server
ENHANCEMENT	#1206	#11023	Added log of failed record Id in case of exception occurred during Encryption on clob columns	Issuer Administration
ENHANCEMENT	#1214	#10265	Added VerifyAuthResp code 5 for SMS Device	Access Control Server
ENHANCEMENT	#1219	#11251	Set whiteListStatus to U/E when the issuer does not have not configured Whitelisting Server	Access Control Server
ENHANCEMENT		#11627	Application startup optimisation	Setup, Issuer Administration, Access Control Server, Registration Server, Whitelisting Server

Type	Issue Number	External ID	Description	Components
ENHANCEMENT	#1250		Updated the EEA issuer's Visa CAVV algorithm to U3V7	Issuer Administration
ENHANCEMENT	#1286	#11935	Update PRM Adapter to accept empty transaction amount	RBA adapter
ENHANCEMENT	#1287	#11874	Save IssuerBinId in Session and HistorySession tables	Issuer Administration, Access Control Server
ENHANCEMENT	#1288	#11923	AReq processing time performance optimisation	Access Control Server
ENHANCEMENT	#1291	#11930	Truncate query in RiskAssessmentLog table	Setup
ENHANCEMENT	#1322	#12006, #12190	Added <code>auth_xx_display_npa</code> value to authentication page for displaying Non-Payment Authentication	Authentication Page
ENHANCEMENT	#1349	#12206	Added ping-pong mechanism for websocket	Access Control Server
ENHANCEMENT	#1365	#12319	Updated Springboot dependency version	WhiteSitting Server
ENHANCEMENT	#1378	#12183	Add SMS OTP lifetime display and disable resend link/button until lifetime reaches	Access Control Server
FIX	#1278	#11761	OOB, Risk and Decoupled Encryption key load bug when MIA was retired	Access Control Server
FIX	#1298	#11912	Error during inserting issuer keys into DATAKEY table	Setup
FIX	#1323	#11987	Digital Authentication Framework transactions goes to error due to failure in loading the device	Access Control Server

Type	Issue Number	External ID	Description	Components
FIX	#1324	#11913	No context given for logback ch.qos.logback.classic.BasicConfigurator	Setup, Issuer Administration, Access Control Server, Registration Server
FIX	#1321	#12096	Correct OTP isn't valid for the transaction	Access Control Server
FIX	#1339	#12141	Error occurred during DAF/3RI/NPA transaction	Access Control Server
FIX	#1347	#12213	CAAS Server error processing	Access Control Server
FIX	#1348	#12207	Missing scenario when websocket is closed	Access Control Server
FIX	#1360	#12123	Incorrect value of Risk decision field	Issuer Administration
FIX	#1362	#12270	Issue when opening the Edit Device Parameters page	Issuer Administration
FIX	#1363	#12245	Transaction status codes for Challenge Indicator 82 in Frictionless transaction	Access Control Server
FIX	#1364	#12174	Incorrect authentication flow	Access Control Server
FIX	#1367	#12318	Force Risk Assessment isn't working for AReq.threeDSRequestorAuthenticationInd=06 and AReq.messageCategory=02	Access Control Server

Type	Issue Number	External ID	Description	Components
FIX	#1368	#12329	Unable to verify checksum	Setup, Issuer Administration, Access Control Server, Registration Server, Whitelisting Server

ActiveAccess v9.3.2 (Patch)

[20/09/2023]

[EOL: 30/11/2025]

Type	Issue Number	External ID	Description	Components
FIX	#1356	#12242	Fixed SMSviaJMS incorrect behaviour	Access Control Server, Issuer Administration

ActiveAccess v9.3.1 (Patch)

[28/08/2023]

[EOL: 20/09/2025]

Type	Issue Number	External ID	Description	Components
FIX	#1342	#12103	Fixed error code 2085 in SMS via JMS process	Access Control Server
FIX	#1344	#12143	Fixed the display issue of not showing some parameters in issuer management	Issuer Administration

Type	Issue Number	External ID	Description	Components
FIX		#12197	Fixed sending messages to the wrong MQServer	Access Control Server
ENHANCEMENT	#1337, #1338	#12160	Updated ECI values for 3RI transactions	Access Control Server

ActiveAccess v9.3.0

[20/07/2023]

[EOL: 28/08/2025]

Type	Issue Number	External ID	Description	Components
ENHANCEMENT	#1200	#10897	Add Force Risk Assessment configuration to enable issuers to apply Risk-Based Authentication to all transactions	Issuer Administration, Access Control Server

ActiveAccess v9.2.2 (Patch)

[05/07/2023]

[EOL: 20/07/2025]

Type	Issue Number	External ID	Description	Components
FIX	#1265	#11855, #11993	ARCHIVE_SESSIONS procedure issue	Issuer Administration, Access Control Server, Registration Server, Whitelisting Server
FIX	#1312	#11933	noRecordFoundException during Final Registration	Registration Server

ActiveAccess v9.2.1 (Patch)

[06/06/2023]

[EOL: 05/07/2025]

Type	Issue Number	External ID	Description	Components
FIX	#1284	#11930	RISKASSESSMENTLOG table archived issue	Access Control Server
FIX	#1289	#11912	DATAKEY Table Issuer Key Insertion error	Issuer Administration
FIX	#1294	#11954, #12059	BrowserIP validation error in remote authentication	Access Control Server
ENHANCEMENT	#1279	#11906	Mastercard modified logic for 3RI transactions	Access Control Server

ActiveAccess v9.2.0

[31/03/2023]

[EOL: 27/4/2025]

Type	Issue Number	External ID	Description	Components
ENHANCEMENT	#1205		Added support for Visa Digital Authentication Framework extension	Access Control Server

ActiveAccess v9.1.7 (Patch)

[27/04/2023]

[EOL: 06/06/2025]

Type	Issue Number	External ID	Description	Components
FIX	#1265	#11855	ARCHIVE_SESSIONS procedure issue	Issuer Administration, Access Control Server, Registration Server, Whitelisting Server

ActiveAccess v9.1.6 (Patch)

[21/03/2023]

[EOL: 31/03/2025]

Type	Issue Number	External ID	Description	Components
FIX	#1232	#11731	update ECI value for <code>threeRIInd = 02</code> and <code>06</code> to 7	Access Control Server
FIX	#1240	#11768	Updated response for not matching expiry date	Access Control Server
ENHANCEMENT	#1218	#10265	Added backward compatibility option for <code>verifyRegRespCode = 4</code>	Access Control Server

ActiveAccess v9.1.5 (Patch)

[18/01/2023]

[EOL: 21/03/2025]

Type	Issue Number	External ID	Description	Components
ENHANCEMENT	#1196	#11461	Update JSecure CAV output calculation	Access Control Server

ActiveAccess v9.1.4

[23/12/2022]

[EOL: 18/01/2025]

Type	Issue Number	External ID	Description	Components
FIX	#1160	#11442	TRA is enabled for any currency and amount	Access Control Server
FIX	#1172	#11461, #11486	Incorrect value of CAVV/ IAV/AAV	Access Control Server
FIX	#1185	#11265	VISA Secure NPA Authentication rule mandate	Access Control Server
ENHANCEMENT	#1171	#11352	Reduce Server Startup time	Issuer Administration, Access Control Server, Registration Server, Whitelisting Server
ENHANCEMENT	#1184	#11538	Update Organization and Organizational Unit fields to optional when generating Certificate Request	Issuer Administration
DOCUMENTATION	#1176	#11513	Update ARes Status Code in Search Fields	

ActiveAccess v9.1.3

[10/11/2022]

[EOL: 23/12/2024]

Type	Issue Number	External ID	Description	Components
ENHANCEMENT	#1140	#11298	Updated risk management to provide the risk engine with the transaction results	Access Control Server

ActiveAccess v9.1.2

[03/11/2022]

[EOL: 10/11/2024]

Type	Issue Number	External ID	Description	Components
FIX	#1067	#10844	Archive/Purge Start Time Settings	Issuer Administration
FIX	#1078	#11023	Migrate To Data Key Utility issue	Issuer Administration
FIX	#1085	#11352	Incorrect Data Key message during Startup	Issuer Administration, Access Control Server, Registration Server, Whitelisting Server
FIX	#1091	#11120	Can't find bundle for base name error	Access Control Server
FIX	#1103	#11113	Unable to find a transaction by using AAV/CAVV/AVV and Account number	Issuer Administration
FIX	#1107	#11155	Error during sending transaction result to RBA Adapter	Access Control Server
FIX	#1109	#11123	EBA report does not collect archive transactions	Issuer Administration
FIX	#1118	#11187	Incorrect 3RI transaction behavior for recurring payment	Access Control Server
FIX	#1123	#11169	Import Key tool does not work - unique constraint violated	Issuer Administration

Type	Issue Number	External ID	Description	Components
FIX	#1132	#11331	Authentication type filter issue at Transaction search	Issuer Administration
FIX	#1135	#11288	Recent initial 3RI transaction cannot be found	Access Control Server
ENHANCEMENT	#1077	#10763	Avoid sending duplicate CRes when error message was sent	Access Control Server
ENHANCEMENT	#1079	#10763	Avoid sending duplicate error message after time out	Access Control Server
ENHANCEMENT	#1093	#11127	Use Archive DB for 3RI operations	Access Control Server
ENHANCEMENT	#1119	#11182, #11265	Visa 3RI transaction update	Access Control Server
ENHANCEMENT	#1121	#11125	Add a parameter to disable padding check on base64UrlEncoded content	Access Control Server
ENHANCEMENT	#1137	#11342	Mastercard SCA Exemption update	Access Control Server

ActiveAccess v9.1.1

[29/06/2022]

[EOL: 03/11/2024]

Type	Issue Number	External ID	Description	Components
ENHANCEMENT			Support for JCB J/Secure 2.0	Access Control Server

Type	Issue Number	External ID	Description	Components
ENHANCEMENT	#699	#9252	Expire OTP parameter for SMS template and Session timeout	Access Control Server, Issuer Administration
ENHANCEMENT	#943	#10340	Changed Logger to Logback	Issuer Administration, Access Control Server, Registration Server, Whitelisting Server
ENHANCEMENT	#986	#10381	Updated RReq message handling	Access Control Server
ENHANCEMENT	#995	#10403	Transaction status display	Issuer Administration
ENHANCEMENT	#1005	#10265	Updated VerifyAuthResp code for Challenge Failure scenario	Access Control Server, Issuer Administration
FIX	#725	#9914	Card device detail issue	Access Control Server
FIX	#808	#10158	CONTINUE/SUBMIT button is not clickable in app-based authentication flow	Access Control Server
FIX	#973	#10371	Incorrect processing of error messages from the Directory Server	Access Control Server
FIX	#991	#10308	Import key when PKCS#11 driver uses another HSM slot	Issuer Administration
FIX	#1030	#10838	Deleting card on MIA issue	Issuer Administration
FIX	#1032	#10830	RReq/CRes message flow issue	Access Control Server

Type	Issue Number	External ID	Description	Components
FIX	#1033	#10846	Remote issuer cardholder information decryption issue	Access Control Server
FIX	#1037	#10763	RRes message was resent after the session finalized	Access Control Server
FIX	#1061	#10920	Purchase time conversion in app-based authentication flow	Access Control Server
DOCUMENTATION		#10936	Message encryption/decryption with AES keys	
FIX			General fixes, performance and security enhancements	Setup, Issuer Administration, Access Control Server, Registration Server, Whitelisting Server

ActiveAccess v9.1.0

[08/04/2022]

[EOL: 29/06/2024]

Type	Issue Number	External ID	Description	Components
ENHANCEMENT	#342		Display Transaction Status Reason Code and Risk Score on Transaction Details page	Issuer Administration
ENHANCEMENT	#428		Introduced PAN Hashing mechanism in the adapters	Access Control Server, Issuer Administration
ENHANCEMENT	#452		Updated the RBA Adapter to provide the risk engine with the challenge results	Access Control Server

Type	Issue Number	External ID	Description	Components
ENHANCEMENT	#453		Added adapter version handling	Access Control Server, Issuer Administration
ENHANCEMENT	#647	#9234	Remote messaging API optimisation	Access Control Server
ENHANCEMENT	#713	#9019	Added European Banking Authority (EBA) automatic report	Issuer Administration
ENHANCEMENT	#926		Added last four digits of PAN to OOB Adapter API	Access Control Server
ENHANCEMENT	#994	#10547	Improvement on ChallengeScheduler	Access Control Server
FIX	#554	#9099	Added RReq.authenticationMethod to OOB Adapter API	Access Control Server
FIX	#707	#9360	Added threeDSRequestorAuthenticationInd to OOB Adapter API	Access Control Server
FIX	#804	#9695	cardExpiryDate processing error in tokenised transactions	Issuer Administration
FIX	#827	#9787	Merchant Activity report bug and failedAttempt column	Issuer Administration
FIX	#931	#9918	MigrateToDatakey Utility PAN length error	Access Control Server
FIX	#978	#10342	Remote messaging requests latency	Access Control Server
FIX	#992	#10572	Missing IN or OUT parameter at index error	Issuer Administration
FIX	#998	#10513	Transaction Risk Analysis status issue	Access Control Server

Type	Issue Number	External ID	Description	Components
FIX	#1009	#10682	Unparseable date error	Access Control Server, Issuer Administration
FIX			General fixes, performance and security enhancements	Setup, Issuer Administration, Access Control Server, Registration Server, Whitelisting Server

ActiveAccess v9.0.16 (Patch)

[05/04/2022]

[EOL: 08/04/2024]

Type	Issue Number	External ID	Description	Components
ENHANCEMENT	#1004	#10647	Added a configuration to allow issuer to not validate card expiry date on or after a defined date	Access Control Server

ActiveAccess v9.0.15 (Patch)

[22/03/2022]

[EOL: 05/04/2024]

Type	Issue Number	External ID	Description	Components
FIX	#1003	#10508	Updated DeviceAcknowledgement message extension to be set only when the challenge is decided	Access Control Server

ActiveAccess v9.0.14 (Patch)

[10/03/2022]

[EOL: 22/03/2024]

Type	Issue Number	External ID	Description	Components
FIX	#997	#10438	Removed temporary logs and fixed license key verify issue	Issuer Administration

ActiveAccess v9.0.13 (Patch)

[08/03/2022]

[EOL: 10/03/2024]

Type	Issue Number	External ID	Description	Components
ENHANCEMENT	#996	#10438	Added temporary logs to verify license key method	Issuer Administration

ActiveAccess v9.0.12 (Patch)

[21/02/2022]

[EOL: 08/03/2024]

Type	Issue Number	External ID	Description	Components
FIX	#982	#10487	Fixed Transient system failure	Access Control Server

ActiveAccess v9.0.11 (Patch)

[09/02/2022]

[EOL: 21/02/2024]

Type	Issue Number	External ID	Description	Components
FIX	#979	#10441	Data Elements issue during OOB authentication for Remote Issuer	Access Control Server
FIX	#980	#10471	Fixed AA behaviour in terms of PreAuthResp.code value	Access Control Server

ActiveAccess v9.0.10

[27/01/2022]

[EOL: 09/02/2024]

Type	Issue Number	External ID	Description	Components
FIX	#951	#9933	Activation Code issue	Issuer Administration
FIX	#960	#10386	Archived transactions are not shown in Card Details	Issuer Administration
FIX	#964	#10308	CAVV/AAV Key import issue	Issuer Administration
FIX	#971	#10307	AppBased authentication native UI issue	Access Control Server
FIX	#972	#9915	Whitelist Server issue	Whitelisting Server
DOCUMENTATION	#928	#10265	ACS behaviour in terms of VerifyAuthResp codes	
DOCUMENTATION	#966	#10243	Update Remote Messaging AdditionalParams	
DOCUMENTATION	#970	#9820	Sample request for Decoupled device upload	

ActiveAccess v9.0.9

[23/12/2021]

[EOL: 25/01/2024]

Type	Issue Number	External ID	Description	Components
ENHANCEMENT	#932	#9855	Display KCV in import and export key pages	Issuer Administration
ENHANCEMENT	#948	#10356	PSD2 SCA Acquirer TRA Exemption Amount Limit	Access Control Server
FIX	#930	#10318	Request-challenge request not sent by the ACS	Access Control Server
FIX	#933	#8820	FK_CUSTOMPAGE_ISSUER error	Setup
FIX	#940	#10180	Feedback on ACS resends CRes message	Access Control Server
FIX	#942	#10306	Card DataKey is not generated for Issuers in Group	Setup
FIX	#944	#10307	AppBased authentication native UI	Access Control Server
FIX	#946	#10361	DAILY_CARD_AUTH_REPORT procedure	Issuer Administration

ActiveAccess v9.0.8

[13/12/2021]

[EOL: 23/12/2023]

Type	Issue Number	External ID	Description	Components
ENHANCEMENT			Support for Mastercard Identity Check 2.2	Access Control Server
ENHANCEMENT	#410		Evaluating risk of transaction when transaction parameter indicates challenge	Access Control Server
ENHANCEMENT	#708	#9341	Applied Mastercard Transaction Status Reason Enhanced Processing Logic	Access Control Server
ENHANCEMENT	#895	#9918	MigrateToDataKey utility Performance Improvement	Issuer Administration, Access Control Server
FIX	#913	#10180	ACS resends CRes message issue	Access Control Server
FIX	#916	#10115	AppBased authentication language selection issue	Access Control Server
FIX	#922	#10242	Issuer card encryption key (Temporary alias) not found issue	Registration Server
FIX	#924	#10249	Unable to update cards registered in AA v8 using CardLoader	Registration Server

ActiveAccess v9.0.7

[08/11/2021]

[EOL: 03/12/2023]

Type	Issue Number	External ID	Description	Components
ENHANCEMENT	#890	#9827	Added new configuration parameter MD_VALIDATION_3DS1	Access Control Server
FIX	#908	#10152	CallBack URL issue	Access Control Server

ActiveAccess v9.0.6

[22/10/2021]

[EOL: 8/11/2023]

Type	Issue Number	External ID	Description	Components
ENHANCEMENT	#866	#9935	Allow admin user to install CA certificate chain	Issuer Administration
ENHANCEMENT	#887	#9936	Initialisation issue due to space character in Tomcat path	Issuer Administration, Registration Server
FIX	#884	#9845	Decryption block size issue for DESede algorithm	Access Control Server, Issuer Administration
FIX	#893	#10054	Frictionless flow issue for remote issuer	Access Control Server

ActiveAccess v9.0.5

[15/10/2021]

[EOL: 22/10/2023]

Type	Issue Number	External ID	Description	Components
ENHANCEMENT	#836	#9855	Using KEK key in import data key page	Issuer Administration
FIX	#854	#9905	Archiving process crash	Issuer Administration
FIX	#856	#9858	RBA scoring issue	Access Control Server

Type	Issue Number	External ID	Description	Components
FIX	#858	#9814	URLs validation (including AReq.notificationURL) - parenthesis fail	Access Control Server
FIX	#859	#9906	OOB issue in sending adapter-info request for every authentication	Access Control Server
FIX	#869	#9421	SDK Transaction Status Reason when card is locked	Access Control Server

ActiveAccess v9.0.4

[06/09/2021]

[EOL: 8/10/2023]

Type	Issue Number	External ID	Description	Components
ENHANCEMENT	#248		New Visa Secure Program Guide	Setup, Issuer Administration, Access Control Server, Registration Server, Whitelisting Server
ENHANCEMENT	#456		Visa PSD2 Exemptions - EMV 3DS Supplementary Guide	Access Control Server
ENHANCEMENT	#606		Visa Secure: RBA Adapter for Acquirer Country Code Extension	Access Control Server
ENHANCEMENT	#620		EMV 2.2: Support message Extension Device Acknowledgement	Access Control Server
ENHANCEMENT	#686		Visa Secure – Validation on Token ID&V Requests	Access Control Server

Type	Issue Number	External ID	Description	Components
ENHANCEMENT	#687		Visa 3DS 2.X – Support for Travel Extension	Access Control Server
ENHANCEMENT	#774		Visa Secure: Release Updates - August 2021	Access Control Server
ENHANCEMENT	#806	#9413	Allowing 3DS1 messages with a sequence of elements that are not in order (optional)	Access Control Server
ENHANCEMENT	#829		CAVV for CEMEA Region	Access Control Server
FIX	#807	#9456	Log file for OOB doesn't build on ACS	Access Control Server
FIX	#826	#9778	Merchant Activity report bug	Issuer Administration
FIX	#828	#9777	OTP input field doesn't appear on authentication pages	Access Control Server
FIX	#830	#9768	Purchase Date check 9.0.4 temporary fix	Access Control Server

ActiveAccess v9.0.3

[16/08/2021]

[EOL: 31/08/2023]

Type	Issue Number	External ID	Description	Components
ENHANCEMENT	#817		Support for importing CAVV and HMAC keys via MIA	Issuer Administration
FIX	#822	#9720	MIA and Registration server ping error	Issuer Administration, Registration Server

ActiveAccess v9.0.2

[06/08/2021]

[EOL: 13/08/2023]

Type	Issue Number	External ID	Description	Components
ENHANCEMENT	#818	#9720	Added additional HSM key logs	Issuer Administration

ActiveAccess v9.0.1

[04/08/2021]

[EOL: 06/08/2023]

Type	Issue Number	External ID	Description	Components
FIX	#814	#9720	Fixed CryptokiError: 0x40 encrypted data invalid error	Issuer Administration, Access Control Server, Registration Server, Whitelisting Server

ActiveAccess v9.0.0

[20/07/2021]

[EOL: 04/08/2023]

Type	Issue Number	External ID	Description	Components
ENHANCEMENT	#235		EMV 3DS 2.2: Whitelisting	Whitelisting Server

Type	Issue Number	External ID	Description	Components
ENHANCEMENT	#317		Support for EMV 3D Secure 2.2	Issuer Administration, Access Control Server, Registration Server, Whitelisting Server
ENHANCEMENT	#381		EMV 3DS 2.2: Support for Decoupled Authentication, ARes.TransStatus=D	Access Control Server
ENHANCEMENT	#385		EMV 3DS 2.2: Support HTTP Protocol HTTP/1.1 and higher	Access Control Server
ENHANCEMENT	#386		EMV 3DS 2.2: Support Informational Request	Access Control Server
ENHANCEMENT	#442	#9320	Update ACS UI Data Elements	Access Control Server
ENHANCEMENT	#458		Deprecated features: ActiveDevice/User Authentication, Enrolment Server, Device types: CAP and RSA	Issuer Administration, Access Control Server, Registration Server, CardLoader
ENHANCEMENT	#466		Mastercard Extension for RBA	Issuer Administration, Access Control Server
ENHANCEMENT	#473	#8958	EMV 3DS 2.2: Remove Continue button from OOB page - Local Issuer	Access Control Server
ENHANCEMENT	#474		EMV2.2: OOB authentication page content	Access Control Server
ENHANCEMENT	#501		EMV 3DS 2.2: Update shared key generation	Access Control Server

Type	Issue Number	External ID	Description	Components
ENHANCEMENT	#507		Visa Secure: Support Authentication for Non-Payment Authentication	Access Control Server
ENHANCEMENT	#511	#9093	Implement general error pages	Issuer Administration
ENHANCEMENT	#526		Add option to configure cardholder name validation	Issuer Administration, Access Control Server, Registration Server
ENHANCEMENT	#573		Allow admin to enter adapterId when registering adapter	Issuer Administration
ENHANCEMENT	#577		Visa secure: using CAVV algorithm U3V7 update status	Issuer Administration, Access Control Server
ENHANCEMENT	#579	#9161	MasterCard: Acquirer Strong Consumer Authentication (SCA) Exemption support in ACS	Access Control Server
ENHANCEMENT	#590		Visa Secure: Support for 3RI payments	Access Control Server
ENHANCEMENT	#592		Add option 3D Secure 2.2 in transaction search	Issuer Administration
ENHANCEMENT	#593		EMV 3DS 2.2: Reporting	Issuer Administration
ENHANCEMENT	#594		EMV2.2: Archive for new protocol version	Issuer Administration
ENHANCEMENT	#600		Visa Secure: Secure Corporate Payment (SCP)	Access Control Server

Type	Issue Number	External ID	Description	Components
ENHANCEMENT	#607	#9022	SessionID logging	Access Control Server
ENHANCEMENT	#614		New Key Management and HSM connectivity - Phase II - Including Migrate to Data Key Utility	Issuer Administration, Access Control Server, Registration Server
ENHANCEMENT	#634		EMV 3DS 2.2: ThreeRI handling	Access Control Server
ENHANCEMENT	#684		Visa Secure: transStatusReason=21 no longer supported in VISA	Access Control Server
ENHANCEMENT	#653		Selecting CAVV/IAV algorithm in Issuer Groups	Issuer Administration
ENHANCEMENT	#662		EMV 3DS 2.2: Whitelisting API	Issuer Administration, Access Control Server, Registration Server
ENHANCEMENT	#669	#9043	Create New CAVV/AAV/SPA Key as Inactive	Issuer Administration
ENHANCEMENT	#680	#9320	EMV 3DS 2.2: UI elements in CRes for SDK transactions	Access Control Server
ENHANCEMENT	#681		Support for Tomcat 9	Setup, Issuer Administration, Access Control Server, Registration Server, Whitelisting Server
ENHANCEMENT	#688	#9320	Support both portrait and landscape UI templates - Local Issuer	Access Control Server

Type	Issue Number	External ID	Description	Components
ENHANCEMENT	#689	#9299	Dynamic Linking - SMS/Email OTP verification issue	Access Control Server
ENHANCEMENT	#696		Whitelisting API for audit logs	Whitelisting Server
ENHANCEMENT	#726	#9320	Support both portrait and landscape UI templates - Remote Issuer	Access Control Server
ENHANCEMENT	#798		EMV 3DS 2.2: EMVCo ReferenceNumber update	Setup
FIX	#337	#8044	Card registration flow - "Unable to assign device as it is not active"	Registration Server
FIX	#487	#9035	Errors after successful completion of 3DS2 transaction	Access Control Server
FIX	#524	#9108	Custom pages do not scale	Access Control Server
FIX	#615	#9208	Incorrect purchase date processing by ACS	Access Control Server
FIX	#616	#9184	Invalid procedure FIND_NESTED_VISA_CAVV_FORMAT	Setup
FIX	#627	#9207	Authentication report bug: MIA Reports - Incorrect 3DS2 authentication data	Issuer Administration
FIX	#637		3DS2 archived transaction details	Issuer Administration
FIX	#730		Authentication with two SMS devices	Access Control Server
FIX	#731		Authenticate card with damaged/lost/ temporary disabled device	Access Control Server
FIX	#747	#9424	threeDSCompInd processing issue	Access Control Server

Type	Issue Number	External ID	Description	Components
FIX			General fixes, performance and security enhancements	Setup, Issuer Administration, Access Control Server, Registration Server

ActiveAccess v8.5.10

[17/06/2021]

[EOL: 30/07/2023]

Type	Issue Number	External ID	Description	Components
FIX	#761	#9451	Error in MQ data processing for transactions where merchant name contains non-Latin letters	Access Control Server

ActiveAccess v8.5.9

[28/05/2021]

[EOL: 17/06/2023]

Type	Issue Number	External ID	Description	Components
FIX	#732	#9382	Data element not in the required format or value is invalid as defined	Access Control Server

ActiveAccess v8.5.8

[17/05/2021]

[EOL: 28/05/2023]

Type	Issue Number	External ID	Description	Components
ENHANCEMENT	#597	#9153	Change Display Amount Format for VND currency	Setup, Access Control Server
FIX	#676	#9313	Incorrect displaying sms parameters	Issuer Administration
FIX	#714	#9366	ACS: session expired	Access Control Server

ActiveAccess v8.5.7

[04/05/2021]

[EOL: 17/05/2023]

Type	Issue Number	External ID	Description	Components
FIX	#712	#9285	Issue in setting ClientId on queued SMS tokens	Access Control Server, Issuer Administration

ActiveAccess v8.5.6

[30/04/2021]

[EOL: 04/05/2023]

Type	Issue Number	External ID	Description	Components
ENHANCEMENT	#682	#9285	ClientID parameter in SMS via JMS	Access Control Server
FIX	#608	#9346	Element 'param' validation error	Access Control Server
FIX	#694	#9331	Successful authentication without CReq field in POST request	Access Control Server

ActiveAccess v8.5.5

[09/04/2021]

[EOL: 30/04/2023]

Type	Issue Number	External ID	Description	Components
ENHANCEMENT	#670	#9291	Visa Secure: Support Visa CEMEA Region CAVV generation for different transStatus values	Access Control Server
ENHANCEMENT	#678		EMV2.x: avoid padding in base64Url	Access Control Server
FIX	#672	#9291	Error generating CAVV value in 3DS1 transaction	Access Control Server
FIX	#673	#9298	Local 3DS1 authentication issue with OOB devices	Access Control Server

ActiveAccess v8.5.4

[02/03/2021]

[EOL: 09/04/2023]

Type	Issue Number	External ID	Description	Components
FIX	#641		Errors during functional test of the interaction between the OOB Server and ACS	Access Control Server
FIX	#656		ACS start up issue with the new OpenJDK Vendor Name	Setup
FIX			General fixes, performance and security enhancements	Setup, Issuer Administration, Access Control Server, Registration Server

ActiveAccess v8.5.3

[05/02/2021]

[EOL: 02/03/2023]

Type	Issue Number	External ID	Description	Components
ENHANCEMENT	#645		Making thread pool size configurable	Access Control Server
FIX	#626		Notification Report for current date	Registration Server
FIX	#629		App-based authentication issue	Access Control Server
FIX	#630		Incorrect value of \$PurchaseDateTime in SMS messages	Access Control Server
FIX	#632		EMV 3DS2.1 - Recurring transactions processing	Access Control Server

ActiveAccess v8.5.2

[15/01/2021]

[EOL: 05/02/2023]

Type	Issue Number	Description	Components
FIX	#610	Fixed an Issue in creating certificate for AnyBank during setup	Access Control Server
FIX		General fixes, performance and security enhancements	Setup, Issuer Administration, Access Control Server, Registration Server

ActiveAccess v8.5.1

[24/12/2020]

[EOL: 15/01/2023]

Type	Issue Number	Description	Components
FIX		General fixes, performance and security enhancements	Setup, Issuer Administration, Access Control Server, Registration Server

ActiveAccess v8.5.0

[18/12/2020]

[EOL: 24/12/2022]

Type	Issue Number	Description	Components
ENHANCEMENT	#422	Enabling migration of ACS application server from Tomcat to WebLogic	Issuer Administration, Access Control Server, Registration Server, Enrolment Server
ENHANCEMENT	#463	New Key Management and HSM connectivity - Phase I	Setup, Issuer Administration, Access Control Server, Registration Server, Enrolment Server
ENHANCEMENT	#468	Support for Oracle 19c	Setup, Issuer Administration, Access Control Server, Registration Server, Enrolment Server
ENHANCEMENT	#522	Addition of purchaseDate to CAAS Server's oobInfo	Access Control Server, Issuer Administration
ENHANCEMENT	#543	Mask critical data in log	Access Control Server
ENHANCEMENT	#557	Improved RMI support	Issuer Administration

Type	Issue Number	Description	Components
FIX	#372	Incorrect CRes transStatus when RReq communication failed	Access Control Server
FIX	#431	New issuer creation error	Setup, Issuer Administration, Access Control Server
FIX	#445	CAVV U3v0 for RBA EMV 3DS	Access Control Server, Issuer Administration
FIX	#459	SMS counter issue when card has multiple devices	Access Control Server
FIX	#494	Extended logs for xslTransform not finished	Access Control Server
FIX	#555	Ending OOB transaction when not authenticated	Access Control Server
FIX	#556	threeDSReqAuthData missing	Access Control Server
FIX	#561	CAAS 3DS2 back issue	Access Control Server
FIX	#567	Set label Challenge for C&R in 3DS2 pages	Access Control Server
FIX	#583	Invalid date and time in authentication landing page (2.1 version)	Access Control Server
FIX	#596	CardLoader/Registration API: can't load cards	Registration Server
FIX	#598	billAddrState, shipAddrState field validation (ISO 3166-2 codes)	Access Control Server
FIX	#599	SMS Templates	Issuer Administration
FIX	#601	OOB without continue button - Shutdown issue	Access Control Server

Type	Issue Number	Description	Components
FIX	#602	ACS should display OOB Continue button when WS is unreachable	Access Control Server
FIX	#603	OOB without continue button - reduce CLOSE_WAIT time	Access Control Server
FIX		General fixes, performance and security enhancements	Setup, Issuer Administration, Access Control Server, Registration Server

ActiveAccess v8.4.4

[25/11/2020]

[EOL: 18/12/2022]

Type	Issue Number	Description	Components
ENHANCEMENT	#550	Update Risk Engine Integrated in CAAS	Access Control Server
FIX	#572	SDK issue for remote issuer	Access Control Server
FIX	#574	HMAC256 key creation error for Luna Provider	Access Control Server, Issuer Administration

ActiveAccess v8.4.3

[13/11/2020]

[EOL: 25/11/2022]

Type	Issue Number	Description	Components
FIX	560	Fixed 3DS1 remote authentication issue when authType = 10	Access Control Server
FIX	563	Fixed issue of formatting purchase date in CAAS API logs	Access Control Server
FIX	564	Fixed acs.war issue of formatting purchase date displaying in Remote/Local issuer authentication challenge page	Access Control Server

ActiveAccess v8.4.2

[27/10/2020]

[EOL: 13/11/2022]

Type	Issue Number	Description	Components
ENHANCEMENT		Enhancement on the remote issuer custom pages: both 3DS1 and 3DS2 remote authentication custom pages should be uploaded	Access Control Server
FIX	549	Added version in schema.xsd at acs.war/WEB-INF/lib/caas.client-*.jar	Access Control Server
FIX	552	Restore authType compatibility: authType can be used for authentication methods 1-15	Access Control Server

ActiveAccess v8.4.1

[16/10/2020]

[EOL: 27/10/2022]

Type	Issue Number	Description	Components
ENHANCEMENT	#528	Support multi-instance for OOB Notifier	Access Control Server
FIX	#485	Update authentication methods	Access Control Server
FIX	#514	Mastercard 3DS2.1: generation of authentication method dropdown on the page	Access Control Server
FIX	#525	PAReq - invalid session	Access Control Server
FIX	#530	Issue with adding sms-centers to issuers on MIA	Issuer Administration
FIX	#533	Issue retrieving the wsUrl (Remote Issuer)	Access Control Server
FIX		General fixes, performance and security enhancements	Setup, Issuer Administration, Access Control Server, Registration Server

ActiveAccess v8.4.0

[02/10/2020]

[EOL: 16/10/2022]

Type	Issue Number	Description	Components
ENHANCEMENT	#348	Support new Visa Secure CAVV Usage 3, Version 7 and add an option to select the algorithm	Access Control Server, Issuer Administration
ENHANCEMENT	#383	Separate SDK html pages from BRW html pages	Access Control Server

Type	Issue Number	Description	Components
ENHANCEMENT	#387	Remove Continue button & add support for auto-submission of OOB page - Remote Authentication	Access Control Server, Issuer Administration
ENHANCEMENT	#455	Display IAV generation algorithm in Transaction Details	Access Control Server, Issuer Administration
ENHANCEMENT	#457	Extend OOB Adapter Challenge Request API with purchase date and time element	Access Control Server
ENHANCEMENT	#467	Assign multiple SMS devices to cards that have different SMSC	Registration Server
ENHANCEMENT	#482	Configurable log for number of DB connections	Access Control Server
ENHANCEMENT	#498	Compatibility with Visa authentication page requirements	Access Control Server
FIX	#437	Pages do not stretch to the entire height of the device - AnyBank_Remote Custompages_3DS2 - incorrect page display	Access Control Server
FIX	#440	Error during decryption in CardDeviceUpdate	CardLoader, Registration Server
FIX	#454	Failed 3DS2 transaction details in MIA	Access Control Server, Issuer Administration
FIX	#460	Error during retrieving messageExtension from session	Access Control Server
FIX	#462	Actions for when OobAuthenticationResult indicates cardholder did not perform OOB auth or there was a connection issue	Access Control Server
FIX	#483	SessionID logging	Access Control Server
FIX	#486	CAVV issue - PAN length must be 16	Access Control Server

Type	Issue Number	Description	Components
FIX	#492	Amount without separator	Access Control Server
FIX	#493	Fix \$PurchaseDateTime format in SMS messages	Access Control Server
FIX	#494	The xslTransform not finished	Access Control Server
FIX	#495	3DS2 Challenge errors flow	Access Control Server
FIX	#499	Incorrect data in MIA Reports	Issuer Administration
FIX	#503	Error during parsing sessionInfo when cardId is UUID for Remote Issuers	Access Control Server
FIX	#504	Remote page issue - OOB initAuth error	Access Control Server
FIX	#509	SDK sessionKey should be saved in DB	Access Control Server
FIX		General fixes, performance and security enhancements	Setup, Issuer Administration, Access Control Server, Registration Server

ActiveAccess v8.3.6

[07/08/2022]

[EOL: 02/10/2022]

Type	Issue Number	Description	Components
ENHANCEMENT	#450	Save valid messages with Invalid ISO codes	Access Control Server
FIX	#437	Text displayed incorrectly when token is entered on Remote Authentication pages	Access Control Server

Type	Issue Number	Description	Components
FIX	#446	Display issue for 3DS1 Local Authentication when OOB + SMS was assigned to the card	Access Control Server
FIX	#447	Disabled the validation of cardholder name for 3DS2 authentication	Access Control Server
FIX		General fixes, performance and security enhancements	Setup, Issuer Administration, Access Control Server, Registration Server

ActiveAccess v8.3.5 (Patch)

[16/07/2020]

[EOL: 07/08/2022]

Type	Issue Number	Description	Components
FIX	#441	AAV generation issue for 3DS1 Mastercard transactions	Access Control Server

ActiveAccess v8.3.4 (Patch)

[09/07/2020]

[EOL: 16/07/2022]

Type	Issue Number	Description	Components
FIX	#441	Removing cancel button in XSL pages for SDK transactions	Access Control Server

ActiveAccess v8.3.3 (Patch)

[06/07/2020]

[EOL: 09/07/2022]

Type	Issue Number	Description	Components
ENHANCEMENT	#441	Additional logs added for 3DS1 Mastercard transactions	Access Control Server

ActiveAccess v8.3.2 (Patch)

[26/06/2020]

[EOL: 06/07/2022]

Type	Issue Number	Description	Components
FIX	#441	Extending the Message Length for SDK transactions	Access Control Server

ActiveAccess v8.3.1 (Patch)

[12/06/2020]

[EOL: 26/06/2022]

Type	Issue Number	Description	Components
ENHANCEMENT	#441	Additional logs added for SDK transactions	Access Control Server

ActiveAccess v8.3.0

[29/05/2020]

[EOL: 12/06/2022]

Type	Issue Number	Description	Components
ENHANCEMENT	#158	OTP & password option for OOB	Issuer Administration, Access Control Server
ENHANCEMENT	#274	Encrypting critical data such as cardnumber in adapters	Issuer Administration, Access Control Server
ENHANCEMENT	#325	Encryption of card number in CardLoader logs	CardLoader
ENHANCEMENT	#343	IAV method option for Mastercard PSD2 in Issuer groups	Issuer Administration, Access Control Server
ENHANCEMENT	#328	RMI configuration option	Setup, Issuer Administration, Access Control Server
ENHANCEMENT	#403	Add 3DS2 transactional data into CAAS messages	Access Control Server
ENHANCEMENT	#423	MIA to notify user when device is removed from Issuer's Active Device list	Issuer Administration
ENHANCEMENT	#429	Remove case sensitivity of OobRequestChallengeResult.requestChallengeEnum accepted values	Access Control Server
FIX	#370	OOB deviceId length issue	Registration Server
FIX	#373	FileNotFoundException during RBA and OOB startup	Access Control Server
FIX	#421	10-CR challenge authentication issue	Access Control Server

Type	Issue Number	Description	Components
FIX	#427	Updated ECI values for AMEX, JCB and Diners	Access Control Server
FIX	#438	Change SecureCode HMAC 256 key	Issuer Administration
FIX		General fixes, performance and security enhancements	Setup, Issuer Administration, Access Control Server, Registration Server

ActiveAccess v8.2.6 (Patch)

[07/05/2020]

[EOL: 29/05/2022]

Type	Issue Number	Description	Components
FIX	#375	Stop ACS from uploading CustomPages for AnyBank at start up	Issuer Administration
FIX	#420	NullPointerException during SMS device loading	Access Control Server
FIX	#426	MIA Report error	Setup, Issuer Administration, Access Control Server, Registration Server

ActiveAccess v8.2.5 (Patch)

[04/05/2020]

[07/05/2022]

Type	Issue Number	Description	Components
FIX	#420	NullPointerException during SMS device loading	Access Control Server

ActiveAccess v8.2.4 (Patch)

[28/04/2020]

[04/05/2022]

Type	Issue Number	Description	Components
FIX	#420	NullPointerException during SMS device loading	Access Control Server

ActiveAccess v8.2.3 (Patch)

[24/04/2020]

[28/04/2022]

Type	Issue Number	Description	Components
FIX	#419	Issue with ACS authentication pages and authentication results cannot be seen	Access Control Server

ActiveAccess v8.2.2

[17/04/2020]

[24/04/2022]

Type	Issue Number	Description	Components
FIX	#371	Fixes to Frictionless Flow, Browser, PA (Result = N)	Access Control Server
FIX	#412	Luna HSM KeyStore loading issue	Access Control Server, Setup

Type	Issue Number	Description	Components
FIX	#413	RSA key size for new issuers and issuer groups changed to 2048	Access Control Server, Setup
FIX	#416	Fixes to Frictionless Flow, 3RI, and NPA (Result = Y)	Access Control Server

ActiveAccess v8.2.1

[09/04/2020]

[EOL: 17/04/2022]

Type	Issue Number	Description	Components
ENHANCEMENT	#331	Addition of cancel link to 3DS2 authentication pages	Access Control Server
ENHANCEMENT	#369	Addition of "store name", "date" and "amount" to authentication page	Access Control Server
FIX	#349	null cardName in verifyRegResp produces an error	Access Control Server
FIX	#371	Changes to the validation date of cardLoader generated certificate	CardLoader
FIX	#393	Misplacement of elements in responsive view of custom pages	Access Control Server
FIX	#394	NullPointerException error while processing regStatus=1 in CAAS	Access Control Server
FIX	#395, 400	ClientID=null not to be included in Notification Reports, OOB & RBA APIs	Access Control Server, CardLoader, Registration Server
FIX	#396	Exception during initializing LunaProvider in gpcomp.updater	Setup

Type	Issue Number	Description	Components
FIX	#397, #399	Archive database schema upgrade from ActiveAccess v7.3 to ActiveAccess v8.2	Issuer Administration, Setup
FIX	#407	Configuration of "ACS challenge URL" for issuers	Access Control Server

ActiveAccess v8.2.0

[27/03/2020]

[EOL: 09/04/2022]

Type	Issue Number	Description	Components
ENHANCEMENT	#151	Support push notifications during OOB authentication	Access Control Server, Registration Server
ENHANCEMENT	#174	IAV method option for Mastercard PSD2	Access Control Server, Issuer Administration
ENHANCEMENT	#192	Displaying OTP+StaticPassword for CAAS	Access Control Server
ENHANCEMENT	#221	Displaying risk decision in Transaction Details page	Issuer Administration
ENHANCEMENT	#307	Addition of a new card attribute: ClientID	Access Control Server, CardLoader, Issuer Administration, Registration Server
ENHANCEMENT	#316	Card and Transaction search performance improvement	Issuer Administration
ENHANCEMENT	#319	"Score range for device" in RBA allows for selection from all devices including OOB	Access Control Server

Type	Issue Number	Description	Components
ENHANCEMENT	#323	Addition of "Maximum interaction" limit for Remote Issuers	Access Control Server, Issuer Administration
FIX	#234	Fix for CAASSESSION table lock issue	Access Control Server
FIX	#315	Fix for archive and purge features	Issuer Administration
FIX	#353	Reverting Card Expiry Date to optional	Issuer Administration, Registration Server
FIX		General fixes, performance and security enhancements	Setup, Issuer Administration, Access Control Server, Registration Server

ActiveAccess v8.1.2

[10/01/2020]

[EOL: 28/02/2022]

Type	Issue Number	Description	Components
ENHANCEMENT	#228	Adding forgot password link for browser device channel	Access Control Server
ENHANCEMENT	#251	Send tokens only when the Resend OTP link is clicked	Access Control Server
ENHANCEMENT	#268	Changes to PreAuth in Remote Authentication model	Access Control Server
ENHANCEMENT	#299	Improvements to enabling 2FA for admin users	Issuer Administration
ENHANCEMENT	#300	Device selection when two OOB devices are assigned to a card	Access Control Server

Type	Issue Number	Description	Components
ENHANCEMENT	#312	Addition of DESede support to CardLoader and Registration for backward compatibility	Registration Server, CardLoader
FIX	#271	Fixing Ping Command connection issue	Issuer Administration, Access Control Server, Registration Server, Enrolment Server
FIX		General fixes, performance and security enhancements	Setup, Issuer Administration, Access Control Server, Registration Server

ActiveAccess v8.1.1

[06/12/2019]

[EOL: 10/01/2022]

Type	Issue Number	Description	Components
ENHANCEMENT	#267	Add new CancelReg request with optional cardholder name	Registration Server, CardLoader
ENHANCEMENT	#271	ActiveAccess Ping command improvement	Issuer Administration, Access Control Server, Registration Server, Enrolment Server
FIX	#303	Invalidate empty cardholder name in PreReg and FinalReg	Registration Server, CardLoader

ActiveAccess v8.1.0

[15/11/2019]

[EOL: 06/12/2021]

Type	Issue Number	Description	Components
ENHANCEMENT	#92	Acceptable values for <code>App unsupported devices</code> updated	Access Control Server, Issuer Administration
ENHANCEMENT	#131	Supporting two-factor authentication for local authentication	Access Control Server, Issuer Administration
ENHANCEMENT	#142	Changing the risk/rule decision process	Access Control Server
ENHANCEMENT	#143	Provide a mechanism to test OOB and RBA restful adapters connect/read timeouts	Access Control Server, Issuer Administration
ENHANCEMENT	#179	Including more data in RBA call back	Access Control Server
ENHANCEMENT	#198	Updating the approach of populating the historical transaction for RBA	Access Control Server
ENHANCEMENT	#201	Create a swagger for OOB and Risk restful adapters	Access Control Server
ENHANCEMENT	#246	Enabling language selection during authentication for 3DS1	Access Control Server, Issuer Administration
ENHANCEMENT	#273	Http protocol version for external connections	Access Control Server
FIX	#53	3DS method notification post data	Access Control Server
FIX	#95	ACS decision based on risk chain score in remote authentication	Access Control Server
FIX	#260	HSM installation issues	Setup
FIX	#266	Detach SDK certificates from Issuer Certificates	Setup
FIX	#278	CAAS Server throws NullPointerException when message category is NPA	Access Control Server

ActiveAccess v8.0.4

[06/11/2019]

[EOL: 15/11/2021]

Type	Issue Number	Description	Components
FIX	#281	Invalid Request to Remote Server	Access Control Server

ActiveAccess v8.0.3

[25/10/2019]

[EOL: 06/11/2021]

Type	Issue Number	Description	Components
FIX	#277	Deployment of registration.war during startup	Registration
FIX	#278	CAAS throws a NullPointerException when message category is NPA	Access Control Server

ActiveAccess v8.0.2

[09/10/2019]

[EOL: 25/10/2021]

Type	Issue Number	Description	Components
ENHANCEMENT	#51	Support 3DS2 purchase amount 0 for Mastercard IDC	Access Control Server
ENHANCEMENT	#98	Update ECI for Message Category NPA for Mastercard IDC	Access Control Server

Type	Issue Number	Description	Components
ENHANCEMENT	#219	Making acsReferenceNumber configurable for testing purposes	Issuer Administration, Access Control Server
ENHANCEMENT	#223	Addition of decline code to preAuthResp of CAAS	Access Control Server
ENHANCEMENT	#229	Addition of KeyStore and TrustStore for RBA Server	Access Control Server
ENHANCEMENT	#233	Addition of KeyStore and TrustStore for OOB Server	Access Control Server
FIX	#132	Updates to Mastercard IDC status codes	Access Control Server
FIX	#148	Remote CAAS PreAuth changes	Access Control Server
FIX	#226	Setup could not generate RSA2048 keys for the MAP error during Luna PKCS11 installation/upgrade	Setup
FIX	#242	Verified by Visa references changed to Visa Secure in the content of authentication pages	Access Control Server
FIX		General fixes, performance and security enhancements	Setup, Issuer Administration, Access Control Server, Registration Server

ActiveAccess v8.0.1

[05/09/2019]

[EOL: 02/10/2021]

Type	Issue Number	Description	Components
ENHANCEMENT	#169	EULA update	Issuer Administration

Type	Issue Number	Description	Components
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
FIX		General fixes, performance and security enhancements	Setup, Issuer Administration, Access Control Server, Registration Server

ActiveAccess v8.0.0

[15/08/2019]

[EOL: 05/09/2021]

Type	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
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

Type	Issue Number	Description	Components
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		
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.

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

Active Control Server

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
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

Issuer Administration

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
ENHANCEMENT	#6463	ISO 4217 Currency Code Service - Amendment number 163
ENHANCEMENT	#6527	Mastercard Identity Check Support
ENHANCEMENT	#6688	JCB Attempt process

Issuer Administration		
-----------------------	--	--

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		
-----------------------	--	--

FIX	#5686	Proof of Attempt = Disabled still displays the opt-out link during ADS
FIX	#6244	Update the default value for AMEX 'Maximum forgot password attempts
FIX	#6417	PAReq is not logged by ACS when the Authentication Exemption Rules are used
FIX	#6687	Updating error details wording to match 3DS v1.0.2 document
FIX	#6693	Errors related to JCB compliance test
FIX	#7037	Authentication Exemption rules do not apply during transactions
ENHANCEMENT	#4131	Authentication pages compatibility with mobile devices
ENHANCEMENT	#5935	New authentication method Email OTP
ENHANCEMENT	#6209	Style applied to XML formatted error pages displayed during authentication
ENHANCEMENT	#6252	ISO 3166 Update country details for Moldova and Gambia
ENHANCEMENT	#6463	ISO 4217 Currency Code Service - Amendment number 163

Access Control Server

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

Registration Server

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 Server

FIX #4584 PCI Key Retiring utility performance issue.

FIX #6186 Error while processing a custom page.

Access Control Server

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

Setup

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*
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

Access Control Server		
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
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	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 by Error Code field in Transaction screens
FIX:	#6025	RuPay verifyRegistration did not forward contextBlob to initAuthentication. contextBlob now included
FIX:	#6026	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
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

Access Control Server

Support	#5634	PARes with parameter SSID to MPI
Support	#5616	A null priSec value results in NullPointerException
Enhancement	#5596	Support for unmasked CH.fullIPAN 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

Legal Notices

Confidentiality Statement

GPayments reserves all rights to the confidential information and intellectual property contained in this document. This document may contain information relating to the business, commercial, financial or technical activities of GPayments. This information is intended for the sole use of the recipient, as the disclosure of this information to a third party would expose GPayments to considerable disadvantage. No part of this document may be reproduced, stored in a retrieval system or transmitted in any form or by any process without prior written permission. This information is provided under an existing non-disclosure agreement with the recipient.

Copyright Statement

This work is Copyright © 2003-2026 by GPayments Pty Ltd. All Rights Reserved. No permission to reproduce or use GPayments Pty Ltd copyright material is to be implied by the availability of that material in this or any other document.

All third party product and service names and logos used in this document are trade names, service marks, trademarks, or registered trademarks of their respective owners.

The example companies, organizations, products, people and events used in screenshots in this document are fictitious. No association with any real company, organization, product, person, or event is intended or should be inferred.

Disclaimer

GPayments Pty Ltd makes no, and does not intend to make any, representations regarding any of the products, protocols or standards contained in this document. GPayments Pty Ltd does not guarantee the content, completeness, accuracy or suitability of this information for any purpose. The information is provided "as is" without express or implied warranty and is subject to change without notice. GPayments Pty Ltd disclaims all warranties with regard to this information, including all implied warranties of merchantability and fitness for a particular purpose and any warranty against infringement. Any determinations and/or statements made by GPayments Pty

Ltd with respect to any products, protocols or standards contained in this document are not to be relied upon.

Liability

In no event shall GPayments Pty Ltd be liable for any special, incidental, indirect or consequential damages whatsoever (including, without limitation, damages for loss of business profits, business interruption, loss of business information, or any other pecuniary loss) whether in an action of contract, negligence or other tortuous action, rising out of or in connection with the use or inability to use this information or the products, protocols or standards described herein, even if GPayments has been advised of the possibilities of such damages.

