3-D Secure Production Integration Testing (PIT)

Test Plan Guide

Version 2.3

Welcome to
3-D Secure Production Integration Testing (PIT) Guide

The *3-D Secure Production Integration Testing (PIT) Guide* provides test cases for use with Access Control Server (ACS) and Merchant Plug-in (MPI).

Disclaimer*: The PIT environment is a facility that provides an alternative test environment for member and vendors to conduct required production integration testing prior to being granted full production status by Visa. Completion of Production Integration testing does not indicate the product is compliant with 3-D Protocol Specifications.*

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Please send questions or comments to Docline@visa.com.

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Contents

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About This Guide

The PIT environment is a facility that provides an alternative test environment for member and vendors to conduct required production integration testing prior to being granted full production status by Visa.

IMPORTANT

Completion of Production Integration testing does not indicate the product is compliant with 3-D Protocol Specifications.

Purpose

This guide provides the information necessary to conduct production integration testing for all Access Control Server (ACS) and Merchant Plug-in (MPI) implementations of Verified by Visa. These test cases are based on 3-D Secure protocol version 1.0.2 and are for the specific purpose to certify successful completion of a set of defined test cases before full production status is granted.

Audience

This document is intended for any merchant, issuer, acquirer, or software developer wanting to develop or test a new 3-D Secure implementation.

Organization of This Guide

The guide contains the following chapters:

Chapter 1, Introduction to Production Integration Testing—describes the content and purpose of the test plan guide, including a reference to the PIT Terms of Service.

Chapter 2, MPI Test Cases— details the test cases supported by the PIT for MPI testing, organized by required versus optional test cases.

Chapter 3, ACS Test Cases— details the test cases supported by the PIT for ACS testing, organized by required versus optional test cases.

Chapter 4, U.S. Region Required Test Cases— details the test cases required for the PIT by the Visa.

Chapter 5, EU Region Optional Test Cases— details the test cases that are optional for the PIT by the Visa.

For More Information

Document References

For additional information on PIT, refer to these documents:

- *3-D Secure Acquirer and Merchant Implementation Guide* at either of these Web sites:
    - www.visa.com/verifiedmerchants
    - http://corporate.visa.com/st/programs.jsp
- *PIT User's Guide* (access the *ACS Testing Guide* and the *MPI Testing Guide* after providing PIT login credentials).

Technical Support

Technical support for PIT connectivity is available via email, only. Technical support coverage is 24X5, beginning 12:00am Sunday to 12:00am Thursday (Eastern US time).

Email connectivity questions to: austinpitsupport@visa.com

Response time is typically 4 hours, and *only* connectivity issues will be addressed. Any other issues must go through the Regional Visa Representative.

Introduction to Production Integration Testing
Optional vs. Required Test Cases

1–1

1. Introduction to Production Integration Testing

Visa requires that all Access Control Server (ACS) and Merchant Plug-in (MPI) implementations of Verified by Visa, based on version 1.0.2 of the 3-D Secure protocol. These test cases are based on 3-D Secure protocol version 1.0.2 and are for the specific purpose to certify successful completion of a set of defined test cases before full production status is granted.

The test cases are designed to ensure that new implementations populate data correctly in 3-D Secure messages and that resulting processing of 3-D Secure message responses is handled correctly. New ACS and MPI implementations must perform the required test cases in the PIT prior to being granted full production status by Visa.

For instructions on preparing for and perform actual testing, refer to the PIT User's Guide (within this document, reference the ACS Testing Guide and MPI Testing Guide, after providing PIT login credentials).

1.1   Optional vs. Required Test Cases

This document contains test cases that the PIT must support and that are mandatory for testing entities, but also contains test cases that are optional for testing entities. Optional test cases are noted as such in the description of each test case.

IMPORTANT

Testers are required to complete all applicable regional test cases where they are intending to deploy the 3-D Secure component.

The required test cases in this guide are:

Required MPI Validation Testing

Required Validation Testing For Production Enabled MPIs

Required ACS Authentication and Validation Testing

U.S. Region Required Test Cases

The optional test cases in this guide are:

Note: Although not required, Visa strongly recommends that the optional tests also be performed to ensure correct 3-D Secure processing.

Optional MPI Validation Testing

Optional Validation Testing For Production Enabled MPIs

Optional ACS Authentication and Validation Testing

EU Region Optional Test Cases

1.2   PIT Terms of Service

It is advised that the PIT Terms of Service be read and understood..

2.   MPI Test Cases

The MPI Test Cases in this chapter are required for MPI implementations in all Visa Regions. Each Visa Region may also require additional test cases. Within this document version, refer to the sections entitled:

U.S. Region Required Test Cases

EU Region Optional Test Cases

2.1   Required MPI Validation Testing

Test Case 01–Successful Full Cache Range Loading (Required)

Description	• This test is required for MPIs that employ a cache. It is NOT required for MPIs that do not support caching. The PIT's cache load provides the card ranges for the PIT's MPI test PANs.
Action	Start up the Merchant Server Plug-in and send a cache request to the Directory Server.

Expected Results	• PIT environment analyzes CRReq and responds with CRRes.
	
	• Successful Cache Loading. The following card ranges will be received in the CRRes message to be loaded:
	
	      `4005559876540-4005559876541`
	   `4012001036275556-4012001038488885`
	   `4012010000000000009-4012010000000000010`
	
	• MPI tester reviews test log for the test case to determine if the PIT found any errors during the evaluation of the 3-D Secure messages. MPI tester must correct any errors and rerun the test case until it is completed successfully.

Test Case 03–No Response From Visa Directory Server (Required)

Description	This test is to verify merchant processing when it fails to receive a response from the Visa Directory Server prior to timing out. The timer that determines when the transaction is timed out by the merchant must be set at 10 seconds or greater.
Action	MPI tester makes a purchase at the tester's merchant storefront using the PAN value `4012001036275556`.
Expected Results	• MPI connects to the PIT's Directory and successfully send a VEReq. • No response is received from the PIT Directory within the time set in the MPI/commerce server. • Merchant commerce server proceeds with a payment authorization request without 3-D Secure. • MPI tester reviews test log for the test case to determine if the PIT found any errors during the evaluation of the 3-D Secure messages. MPI tester must correct any errors and rerun the test case until it is completed successfully.

Test Case 04–Cardholder Not Participating (Required)

Description	This test is to verify merchant processing when a VERes is received from the Directory Server indicating that the cardholder does not participate in 3-D Secure.
Action	Merchant sends a VEReq to the PIT Directory Server using the PAN value `4012001038443335`.
Expected Results	• Merchant connects to the PIT Directory Server and sends a VEReq. • PIT Directory Server sends a VERes message back to the MPI containing an enrollment status of "N", indicating that the cardholder is not enrolled in 3-D Secure. • Transaction qualifies for the Attempts liability shift; merchant commerce server proceeds with authorization request in which ECI value is set to 6. • The Merchant Plug-in server log records a 3-D Secure authentication outcome of Cardholder Not Participating.

Test Case 05–Unable to Verify Enrollment (Required)

Description	This test is to verify merchant processing when a VERes is received from the Directory Server indicating "unable to verify enrollment.
Action	Merchant sends a VEReq to the PIT Directory Server using the PAN value `4012001038488884`.
Expected Results	• Merchant connects to the PIT Directory Server and sends a VEReq. • PT Directory Server sends a VERes message back to the MPI containing an enrollment status of "U", indicating that the cardholder's enrollment status could not be determined. • Merchant commerce server proceeds with normal authorization request without 3-D Secure. • The Merchant Plug-in server log records a 3-D Secure authentication outcome of Unable to Verify Enrollment.

Test Case 06–Invalid Response from Directory Server (Required)

Description	This test is to verify merchant processing when the merchant receives a response from the Visa Directory Server but there is a problem with the response that prohibits the MPI from continuing processing.
Action	MPI tester makes a purchase at the tester's merchant storefront using the PAN value `4012001036298889`.
Expected Results	• Merchant connects to the PIT Directory Server and sends a VEReq. • PIT Directory Server sends a malformed VERes message back to the MPI. • MPI cannot interpret response. MPI hands control back to the Merchant's commerce server and proceeds with authorization without 3-D Secure. • MPI tester reviews test log for the test case to determine if the PIT found any errors during the evaluation of the 3-D Secure messages. MPI tester must correct any errors and rerun the test case until it is completed successfully.

Test Case 07–Invalid ACS Digital Signature (Required)

Description	This test is to verify that, in the event that the digital signature of a PARes received from an ACS fails validation, the transaction is handled by the merchant as the equivalent of a failed authentication.
Action	MPI tester makes a purchase at the tester's merchant storefront using the PAN value `4012001036853337`.
Expected Results	- Merchant connects to the PIT Directory Server and sends a VEReq. - PIT Directory Server sends a VERes message back to the MPI. - Merchant MPI generates and sends a PAReq to the PIT ACS. - PIT ACS returns a PARes with an invalid digital signature. - The Merchant Plug-in fails to validate the digital signature and treats the transaction as a failed authentication: cardholder is messaged that the 3-D Secure authentication failed and is asked to try again or use another form of payment. - MPI tester reviews test log for the test case to determine if the PIT found any errors during the evaluation of the 3-D Secure messages. MPI tester must correct any errors and rerun the test case until it is completed successfully.

Test Case 08–Expired ACS Signing Certificate (Required)

Description	This test is to verify that, in the event a PARes is received with an expired ACS digital signature, the transaction is handled by the Merchant as the equivalent of a failed authentication.
Action	MPI tester makes a purchase at the tester's merchant storefront using the PAN value `4012001036983332`.
Expected Results	- Merchant connects to the PIT Directory Server and sends a VEReq. - PIT Directory Server sends a VERes message back to the MPI. - Merchant MPI generates and sends a PAReq to the PIT ACS. - PIT ACS returns a PARes with a digital signature signed using an expired certificate. - The Merchant Plug-in fails to validate the digital signature and treats the transaction as a failed authentication: cardholder is messaged that the 3-D Secure authentication failed and is asked to try again or use another form of payment. - MPI tester reviews test log for the test case to determine if the PIT found any errors during the evaluation of the 3-D Secure messages. MPI tester must correct any errors and rerun the test case until it is completed successfully.

Test Case 09–Successful Authentication via 16-digit PAN (Required)

Description	This test is to verify merchant processing of a successful 3-D Secure authentication using a 16-digit valid cardholder PAN.
Action	1. MPI tester makes a purchase at the tester's merchant storefront using the PAN value `4012001037141112`.
Expected Results	• Merchant connects to the PIT Directory Server and sends a VEReq. • PIT Directory Server sends a VERes message back to the MPI. • Merchant MPI generates and sends a PAReq to the PIT ACS. • PIT ACS returns a PARes with a CAVV value and a Transaction Status set to "Y" to the Merchant. • Successful Payer Authentication - Merchant commerce server proceeds with authorization; authorization request message has ECI value set to 5 and contains XID and CAVV values. • The Merchant Plug-in server logs a successful 3-D Secure authentication. • Must include the ability to support masked PAN if requested. • MPI tester reviews test log for the test case to determine if the PIT found any errors during the evaluation Secure messages. MPI tester must correct any errors and rerun the test case until it is completed successfully.

Test Case 10–Successful Authentication via 13-digit PAN (Required)

Description	This test is to verify merchant processing of a successful 3-D Secure authentication using a 13-digit valid cardholder PAN.
Action	MPI tester makes a purchase at the tester's merchant storefront using the PAN value `4005559876540`.
Expected Results	• Merchant connects to the PIT Directory Server and sends a VEReq. • PIT Directory Server sends a VERes message back to the MPI. • Merchant MPI generates and sends a PAReq to the PIT ACS. • PIT ACS returns a PARes with a CAVV value and a Transaction Status set to "Y" to the Merchant. • Successful Payer Authentication - Merchant commerce server proceeds with authorization; authorization request message has ECI value set to 5 and contains XID and CAVV values. • The Merchant Plug-in server logs a successful 3-D Secure authentication. • Must include the ability to support masked PAN if requested. • MPI tester reviews test log for the test case to determine if the PIT found any errors during the evaluation of the 3-D Secure messages. MPI tester must correct any errors and rerun the test case until it is completed successfully.

Test Case 12–Successful Merchant Attempt via 16-digit PAN (Required)

Description	This test is to verify merchant processing of a transaction that successfully qualifies for the liability shift for merchant attempt using a 16-digit cardholder PAN.
Action	MPI tester makes a purchase at the tester's merchant storefront using the PAN value `4012001037167778`.
Expected Results	• Merchant connects to the PIT Directory Server and sends a VEReq. • PIT Directory Server sends a VERes message back to the MPI. • Merchant MPI generates and sends a PAReq to the PIT ACS. • PIT ACS returns a PARes with a CAVV value and a Transaction Status set to "A" to the Merchant. • Successful Merchant Attempt - Merchant commerce server proceeds with authorization; authorization request message has ECI value set to 6 and contains XID and CAVV values. • The Merchant Plug-in server logs a successful 3-D Secure merchant attempt. • MPI tester reviews test log for the test case to determine if the PIT found any errors during the evaluation of the 3-D Secure messages. MPI tester must correct any errors and rerun the test case until it is completed successfully.

Test Case 13–Authentication Failure (Required)

Description	This test is to verify merchant processing of a failed 3-D Secure authentication using a 16-digit PAN.
Action	MPI tester makes a purchase at the tester's merchant storefront using the PAN value `4012001037461114`.
Expected Results	• Merchant connects to the PIT Directory Server and sends a VEReq. • PIT Directory Server sends a VERes message back to the MPI. • Merchant MPI generates and sends a PAReq to the PIT ACS. • PIT ACS returns a PARes without a CAVV value and a Transaction Status set to "N" to the Merchant. • Merchant commerce server presents cardholder with a message that the authentication has failed and asks the cardholder to try again or use another form of payment. • The Merchant Plug-in server logs a failed 3-D Secure authentication. • MPI tester reviews test log for the test case to determine if the PIT found any errors during the evaluation of the 3-D Secure messages. MPI tester must correct any errors and rerun the test case until it is completed successfully.

Test Case 14–Authentication Not Available (Required)

Description	This test is to verify merchant processing of a 3-D Secure authentication when authentication is not available for the PAN.
Action	MPI tester makes a purchase at the tester's merchant storefront using the PAN value `4012001037484447`.
Expected Results	• Merchant connects to the PIT Directory Server and sends a VEReq. • PIT Directory Server sends a VERes message back to the MPI. • Merchant MPI generates and sends a PAReq to the PIT ACS. • PIT ACS returns a PARes without a CAVV value and a Transaction Status set to "U" to the Merchant. • Merchant commerce server proceeds with normal authorization request without 3-D Secure. • The Merchant Plug-in server log records a 3-D Secure authentication outcome of "Authentication Not Available". • MPI tester reviews test log for the test case to determine if the PIT found any errors during the evaluation of the 3-D Secure messages. MPI tester must correct any errors and rerun the test case until it is completed successfully.

Test Case 15–Invalid Payer Authentication Response (Required)

Description	This test is to verify merchant processing when an invalid PARes message is received from an ACS, preventing the merchant from interpreting the ACSs response.
Action	MPI tester makes a purchase at the tester's merchant storefront using the PAN value `4012001037490006`.
Expected Results	• Merchant connects to the PIT Directory Server and sends a VEReq. • PIT Directory Server sends a VERes message back to the MPI. • Merchant MPI generates and sends a PAReq to the PIT ACS. • PIT ACS returns a valid PARes message to the merchant with embedded whitespace characters. • Merchant commerce server proceeds with normal authorization request without 3-D Secure or, depending on the individual merchants implementation decision, merchant informs cardholder that the authentication could not be completed and asks the cardholder to try again or use another form of payment. • The Merchant Plug-in server log records a 3-D Secure authentication outcome of Invalid Response. • MPI tester reviews test log for the test case to determine if the PIT found any errors during the evaluation of the 3-D Secure messages. MPI tester must correct any errors and rerun the test case until it is completed successfully.

Test Case 16–Valid 3-D Secure Message With Embedded Whitespace Characters (Required)

Description	This test is to verify that merchant MPIs are able to process PARes messages with embedded whitespace characters.
Action	MPI tester makes a purchase at the tester's merchant storefront using the PAN value `4012001037490014`.
Expected Results	• Merchant connects to the PIT Directory Server and sends a VEReq. • PIT Directory Server sends a VERes message back to the MPI. • Merchant MPI generates and sends a PAReq to the PIT ACS. • PIT ACS returns a PARes with embedded whitespace characters and with a CAVV value and a Transaction Status set to "Y" to the Merchant. • Successful Payer Authentication - Merchant commerce server proceeds with authorization; authorization request message has ECI value set to 5 and contains XID and CAVV values. • The Merchant Plug-in server logs a successful 3-D Secure authentication. • Must include the ability to support masked PAN if requested. • MPI tester reviews test log for the test case to determine if the PIT found any errors during the evaluation of the 3-D Secure messages. MPI tester must correct any errors and rerun the test case until it is completed successfully.

2.2   Optional MPI Validation Testing

Test Case 02–Primary Directory Server Not Available, Fallback to Secondary Directory Server

Description	This test is to verify that the merchant's Merchant Plug-in server (MPI) can successfully fall back to a secondary Directory Server if the primary Directory Server does not respond. PAN value **4012001037141112**. This test case is optional.
Action	1. Configure primary Directory Server address in Merchant Plug-In server with an invalid URL and configure secondary Directory URL address with the PIT's Directory Server URL. 2. MPI tester uses merchant store front to purchase an item.
Expected Results	• Connection attempt with primary Directory Server fails, Merchant Plug-in server then successfully connects with secondary Directory Server. • Merchant receives a VERes response. • MPI tester reviews test log for the test case to determine if the PIT found any errors during the evaluation of the 3-D Secure messages. MPI tester must correct any errors and rerun the test case until it is completed successfully.

Test Case 11–Successful Authentication via a 19-digit PAN (Optional)

Description	This test is to verify merchant processing of a successful 3-D Secure authentication using a 19-digit valid cardholder PAN. This test case is optional.
Action	MPI tester makes a purchase at the tester's merchant storefront using the PAN value `4012010000000000009`.
Expected Results	• Merchant connects to the PIT Directory Server and sends a VEReq. • PIT Directory Server sends a VERes message back to the MPI. • Merchant MPI generates and sends a PAReq to the PIT ACS. • PIT ACS returns a PARes with a CAVV value, ECI value of "6" and a Transaction Status set to "Y" to the Merchant. • Successful Payer Authentication - Merchant commerce server proceeds with authorization; authorization request message has ECI value set to 5 and contains XID and CAVV values. • The Merchant Plug-in server logs a successful 3-D Secure authentication. • Must include the ability to support masked PAN if requested. • MPI tester reviews test log for the test case to determine if the PIT found any errors during the evaluation of the 3-D Secure messages. MPI tester must correct any errors and rerun the test case until it is completed successfully.

2.3 Required Validation Testing For Production Enabled MPIs

Test Case 17–Successful Authentication with a Visa Ecomm Signed Certificate

Description	**Required by 31 Aug 2013** This test is to verify merchant processing of a successful 3-D Secure authentication using a Visa Ecomm signature certificate for the PARes.
Action	MPI tester makes a purchase at the tester's merchant storefront using the PAN value `4012001036273338`.
Expected Results	• Merchant connects to the PIT Directory Server and sends a VEReq. • PIT Directory Server sends a VERes message back to the MPI. • Merchant MPI generates and sends a PAReq to the PIT ACS. • PIT ACS returns a PARes with a CAVV value and a Transaction Status set to "Y" to the Merchant. • Successful Payer Authentication - Merchant commerce server proceeds with authorization; authorization request message has ECI value set to 5 and contains XID and CAVV values. • The Merchant Plug-in server logs a successful 3-D Secure authentication.

	• Must include the ability to support masked PAN if requested.
	• MPI tester reviews test log for the test case to determine if the PIT found any errors during the evaluation of the 3-D Secure messages. MPI tester must correct any errors and rerun the test case until it is completed successfully.

Test Case 18–Successful Authentication with a Visa eVisa Signed Certificate

Description	
	This test is to verify merchant processing of a successful 3-D Secure authentication using a Visa eVisa signature certificate for the PARes.
Action	MPI tester makes a purchase at the tester's merchant storefront using the PAN value `4012001036273346`.
Expected Results	• Merchant connects to the PIT Directory Server and sends a VEReq.
	• PIT Directory Server sends a VERes message back to the MPI.
	• Merchant MPI generates and sends a PAReq to the PIT ACS.
	• PIT ACS returns a PARes with a CAVV value and a Transaction Status set to "Y" to the Merchant.
	• Successful Payer Authentication - Merchant commerce server proceeds with authorization; authorization request message has ECI value set to 5 and contains XID and CAVV values.
	• The Merchant Plug-in server logs a successful 3-D Secure authentication.
	• Must include the ability to support masked PAN if requested.
	• MPI tester reviews test log for the test case to determine if the PIT found any errors during the evaluation of the 3-D Secure messages. MPI tester must correct any errors and rerun the test case until it is completed successfully.

2.4 Optional Validation Testing For Production Enabled MPIs

Test Case 19–MPI Certificate Authentication To DS Failure (Optional) (For Certificate access only)

Description	This test is to verify that merchant MPIs are able to process the new ErrorCodes that have been added to the 3D-Secure implementation.
Action	MPI tester makes a purchase at the tester's merchant storefront using the PAN value `4012001036273320`.
Expected Results	Merchant connects to the PIT Directory Server and sends a VEReq. PIT Directory Server sends an Error Message with Error Code "58" with Error Detail "DNS URL/IP mismatch or lookup failure." MPI tester reviews test log for the test case to ensure that MPI is able to handle the new Error Code properly.

Test Case 21–Successful Authentication with Large URL

Description	This test is to verify merchant processing of a successful 3-D Secure authentication using a 16-digit valid cardholder PAN with an ACS URL that contains a POST Parameter that is 2048 characters long.
Action	MPI tester makes a purchase at the tester's merchant storefront using the PAN value **4012001037141369**.
Expected Results	Merchant connects to the PIT Directory Server and sends a VEReq. PIT Directory Server sends a VERes message back to the MPI. The URL field in the VERes contains a POST parameter that is 2048 characters long. Merchant MPI generates and sends a PAReq to the PIT ACS. PIT ACS returns a PARes with a CAVV value and a Transaction Status set to "Y" to the Merchant. Successful Payer Authentication - Merchant commerce server proceeds with authorization; authorization request message has ECI value set to 5 and contains XID and CAVV values. The Merchant Plug-in server logs a successful 3-D Secure authentication. Must include the ability to support masked PAN if requested. MPI tester reviews test log for the test case to determine if the PIT found any errors during the evaluation of the 3-D Secure messages. MPI tester must correct any errors and rerun the test case until it is completed successfully. If the POST Parameter was not received by the PIT ACS or was corrupted, the test case will fail.

3. ACS Test Cases

The ACS Test Cases below are required for Issuer ACS implementations in all Visa Regions. Each Visa Region may also require additional test cases. Within this document version, refer to the sections entitled:

U.S. Region Required Test Cases

EU Region Optional Test Cases

3.1   Required ACS Authentication and Validation Testing

Test Case 01–Directory Server with invalid SSL client certificate (Required)

Description	This test is to verify that the ACS validates the client SSL certificate of the Directory Server and, if the certificate is invalid, refuses the connection.
Action	1. Go to the Run ACS Test page. 2. Select "01 - Directory Server with invalid SSL client certificate" from the list of test cases. Click the "Send VEReq" button. The PIT Directory Server sends a valid VEReq, but attempts to connect using an expired client SSL certificate.
Expected Results	ACS does not respond to the Directory Server communication attempt, does not process the incoming VEReq message, and does not return a VERes message.

Test Case 02–Authentication via a 16-digit PAN (Required)

Description	This test is to verify successful cardholder authentication via a password using a 16-digit cardholder PAN.
Action	1. Go to the **Run ACS Test** page. 2. Select **02 - Authentication via a 16-digit PAN (VEReq)** from the list of test cases. The screen shows the VEReq that the PIT sends to the ACS. 3. If the ACS has enrolled the PIT's default PAN, click **Send VEReq**. 4. To proceed with a different PAN, edit the **<PAN>** field in the XML, replacing the PIT's PAN with the desired PAN; then click the **Send VEReq**. The PIT sends the VEReq to the ACS, receives a response message and then displays the VERes and the subsequent PAReq on the Review VERes/PAReq page. 5. Select **02 – Authentication via a 16-digit PAN (PAReq)** from the list of test cases. 6. Click **Send PAReq**. 7. The PIT sends the PAReq to the ACS via the tester's browser. 8. The authentication form appears and ACS presents first prompt for password. 9. As ACS tester, you must respond to the prompt with a valid password. Successful authentication: ACS returns a valid PARes message with a CAVV element, ECI value of "5", and Transaction Status set to "Y" to the PIT merchant. PIT evaluates the PARes message and displays the contents of the PARes and any errors found during the evaluation. ACS sends a PATransReq to the PIT AHS and also stores a copy of the message locally. The PIT AHS returns the PATransRes to the ACS.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

Test Case 05–Authentication after one invalid password entry (Required)

Description	This test is to verify successful cardholder authentication via a password on the cardholder's second attempt to enter a correct password.

Action	1. Go to the Run ACS Test page.
	
	2. Select **05 - Authentication after one invalid password entry (VEReq)** from the list of test cases.
	
	3. Click **Send VEReq**.
	
	   The PIT sends the VEReq to the ACS, receives a response message and then displays the VERes and the subsequent PAReq on the Review VERes/PAReq page.
	
	4. Select **05 - Authentication after one invalid password entry (PAReq)** from the list of test cases.
	
	5. Click the **Send PAReq**.
	
	   The PIT sends the PAReq to the ACS via the tester's browser. The authentication form appears and ACS presents first prompt for password.
	
	10. As ACS tester, you must respond to the prompt with a valid password.
	
	   ACS sends a message to cardholder that the first password entry failed authentication and asks the cardholder to try again. Cardholder enters valid password.
	
	   Successful authentication: ACS returns a valid PARes message with a CAVV element, ECI value of "5", and Transaction Status set to "Y" to the PIT merchant. PIT evaluates the PARes message and displays the contents of the PARes and any errors found during the evaluation.
	
	ACS sends a PATransReq to the PIT AHS and also stores a copy of the message locally. The PIT AHS returns the PATransRes to the ACS.

Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

Test Case 06–Authentication after two invalid password entries (Required)

Description	This test is to verify successful cardholder authentication via a password on the cardholder's third attempt to enter a correct password.
Action	1. Go to the Run ACS Test page. 2. Select "06 - Authentication after two invalid password entries (VEReq)" from the list of test cases. 3. Click **Send VEReq**. The PIT sends the VEReq to the ACS, receives a response message and then displays the VERes and the subsequent PAReq on the Review VERes/PAReq page. 4. Select **06 - Authentication after two invalid password entries (PAReq)** from the list of test cases. 5. Click **Send PAReq**. The PIT sends the PAReq to the ACS via the tester's browser. The authentication form appears and ACS presents first prompt for password. ACS tester responds to the prompt with an invalid password. ACS messages cardholder that first password entry failed authentication and asks the cardholder to try again. ACS tester again responds to the prompt with an invalid password. ACS messages cardholder that password entry failed authentication and asks the cardholder to try again. The cardholder enters valid password. Successful authentication: ACS returns a valid PARes message with a CAVV element, ECI value of "5", and Transaction Status set to "Y" to the PIT merchant. PIT evaluates the PARes message and displays the contents of the PARes and any errors found during the evaluation. ACS sends a PATransReq to the PIT AHS and also stores a copy of the message locally. The PIT AHS returns the PATransRes to the ACS.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

Test Case 09–Authentication Failure Due to Invalid Password (Required)

Description	This test is to verify that the ACS indicates a failed authentication to the merchant after the cardholder fails to enter a valid Password within the allowable number of Password attempts (as defined in the ACS implementation).
Action	1. Go to the Run ACS Test page.
	2. Select "09 - Authentication Failure Due to Invalid Password (VEReq)" from the list of test cases.
	3. Click **Send VEReq**.
	The PIT sends the VEReq to the ACS, receives a response message and then displays the VERes and the subsequent PAReq on the Review VERes/PAReq page.
	4. Select **09 - Authentication Failure Due to Invalid Password (PAReq)** from the list of test cases.
	5. Click **Send PAReq**.
	The PIT sends the PAReq to the ACS via the tester's browser. The authentication form appears and ACS presents first prompt for password. ACS tester responds to the prompt with an invalid password, and repeats this as often as necessary to generate an authentication failure per the ACS specifications.
	Failed authentication: ACS returns a valid PARes message a Transaction Status set to "N" to the PIT merchant. PIT evaluates the PARes message and displays the contents of the PARes and any errors found during the evaluation.
	ACS sends a PATransReq to the PIT AHS and also stores a copy of the message locally. The PIT AHS returns the PATransRes to the ACS.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

Test Case 10–Authentication Failure Due to Cardholder Cancellation (Required)

Description	This test is to verify that the ACS indicates a failed authentication to the merchant when the cardholder clicks the Cancel button
	Note: *This is a different case for that in which the cardholder closes the window by clicking the 'x' in the upper right corner of the window or by right-clicking and choosing close.*
Action	1. Go to the Run ACS Test page.
	2. Select **10 - Authentication Failure Due to Cardholder Cancellation (VEReq)** from the list of test cases.
	3. Click **Send VEReq**.
	The PIT sends the VEReq to the ACS, receives a response message and then displays the VERes and the subsequent PAReq on the Review VERes/PAReq page.
	4. Select **10 - Authentication Failure Due to Cardholder Cancellation (PAReq)** from the list of test cases.
	5. Click **Send PAReq**.
	The PIT sends the PAReq to the ACS via the tester's browser. 6. The authentication form appears and ACS presents first prompt for password. ACS tester clicks the Cancel button, causing the authentication to fail.
	Note: *Visa recommends that the ACS, after learning that the cardholder clicked Cancel, inform the cardholder that clicking Cancel will result in the authentication failing and asking the cardholder if they are sure that they want to Cancel. Cardholder is offered option of continuing with the Cancel operation or returning to the password screen to retry the Password. However, this cardholder interaction is optional.*
	Failed authentication: ACS returns a valid PARes message with a Transaction Status set to "N" to the PIT merchant. PIT evaluates the PARes message and displays the contents of the PARes and any errors found during the evaluation.
	ACS sends a PATransReq to the PIT AHS and also stores a copy of the message locally. The PIT AHS returns the PATransRes to the ACS.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

Test Case 11–Authentication Not Available Due to Unenrolled Cardholder PAN (Required)

Description	This test is to verify that the ACS indicates Authentication Not Available when it receives a Verify Enrollment Request for an un-enrolled cardholder PAN that is within a participating BIN on the ACS.
Action	1. Go to the Run ACS Test page. 2. Select **11 - Authentication Not Available Due to Unenrolled Cardholder PAN** from the list of test cases. 3. Click **Send VEReq**. The PIT sends the VEReq to the ACS, and should receive a response VERes message that indicates that the cardholder is not enrolled, with a PAN Authentication Available field populated with "N". The PIT analyzes the VERes and displays the contents of the VERes and any errors found during the analysis on the Review VERes page.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

Test Case 12–Authentication Failure Due to PAN in CH.acctID Field Mismatch (Required)

Description	This test is to verify ACS processing when it receives a PAReq message from a merchant with a value in the CH.acctID field that does not match the value that the ACS originally provided in the VERes message.
Action	1. Go to the Run ACS Test page. 2. Select **12 - Authentication Failure Due to CH.acctID Field Mismatch (VEReq)** from the list of test cases. 3. Click the "Send VEReq" button. The PIT sends the VEReq to the ACS, receives a response message and then displays the VERes and the subsequent PAReq on the Review VERes/PAReq page. 4. Select "12 - Authentication Failure Due to CH.acctID Field Mismatch (PAReq)" from the list of test cases. 5. Click **Send PAReq**. The ACS responds with a PARes with a Transaction Status set to "U" and invalid request code 55 to the Merchant. PIT evaluates the error message and displays the contents of the PARes and any errors found during the evaluation. ACS sends a PATransReq to the PIT AHS and also stores a copy of the message locally. The PIT AHS returns the PATransRes to the ACS.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

Test Case 13–Processing of Invalid Verify Enrollment Request Message (Required)

Description	This test is to verify that the ACS returns an appropriate error response when an invalid VEReq message is received.
Action	1. Go to the Run ACS Test page. 2. Select **13 - Processing of Invalid VEReq Message** from the list of test cases. 3. Click **Send VEReq**. The PIT sends an invalid VEReq to the ACS, and receives an Error message in response.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

Test Case 14–Processing of Invalid Payer Authentication Request Message (Required)

Description	This test is to verify that the ACS returns an appropriate error response when an invalid PAReq message is received.
Action	1. Go to the Run ACS Test page. 2. Select **14 - Processing of Invalid Payer Authentication Request (VEReq)** from the list of test cases. 3. Click **Send VEReq**. The PIT sends the VEReq to the ACS, receives a response message and then displays the VERes and the subsequent PAReq on the Review VERes/PAReq page. 4. Select "14 - Processing of Invalid Payer Authentication Request (PAReq)" from the list of test cases. 5. Click the "Send PAReq" button. 6. The PIT sends an invalid PAReq to the ACS via the tester's browser. 7. The ACS returns an Error message to the PIT. PIT evaluates the error message and displays the contents of the PARes and any errors found during the analysis.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

3.2 Optional ACS Authentication and Validation Testing

Test Case 03–Authentication via a 13-digit PAN (Optional)

Description	This test is to verify successful cardholder authentication via a password using a 13-digit cardholder PAN.
	Note: *This test is only required for ACSs that will enroll and process 13-digit PANs.*
Action	1. Go to the Run ACS Test page.
	2. Select **03 – Authentication via a 13-digit PAN (VEReq)** from the list of test cases.
	3. Click **Send VEReq**.
	The PIT sends the VEReq to the ACS, receives a response message and then displays the VERes and the subsequent PAReq on the Review VERes/PAReq page.
	4. Select **03 – Authentication via a 13-digit PAN (PAReq)** from the list of test cases.
	5. Click **Send PAReq**.
	The PIT sends the PAReq to the ACS via the tester's browser. The authentication form appears and ACS presents first prompt for password. ACS tester responds to the prompt with a valid password.
	Successful authentication: ACS returns a valid PARes message with a CAVV element, ECI value of "5", and Transaction Status set to "Y" to the PIT merchant. PIT evaluates the PARes message and displays the contents of the PARes and any errors found during the evaluation.
	ACS sends a PATransReq to the PIT AHS and also stores a copy of the message locally. The PIT AHS returns the PATransRes to the ACS.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

Test Case 04–Authentication via a 19-digit PAN (Optional)

Description	This test is to verify successful cardholder authentication via a password using a 19-digit cardholder PAN. ***Note***: *This test is only required for ACSs that will enroll and process 19-digit PANs.*
Action	1. Go to the Run ACS Test page. 2. Select **04 – Authentication via a 19-digit PAN (VEReq)** from the list of test cases. 3. Click **Send VEReq**. The PIT sends the VEReq to the ACS, receives a response message and then displays the VERes and the subsequent PAReq on the Review VERes/PAReq page. 4. Select **04 – Authentication via a 19-digit PAN (PAReq)** from the list of test cases. 5. Click **Send PAReq**. The PIT sends the PAReq to the ACS via the tester's browser. The authentication form appears and ACS presents first prompt for password. ACS tester responds to the prompt with a valid password. **Successful authentication**: ACS returns a valid PARes message with a CAVV element, ECI value of "5", and Transaction Status set to "Y" to the PIT merchant. PIT evaluates the PARes message and displays the contents of the PARes and any errors found during the evaluation. ACS sends a PATransReq to the PIT AHS and also stores a copy of the message locally. The PIT AHS returns the PATransRes to the ACS.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

Test Case 07–Authentication Using 40-bit SSL Cipher on Browser (Optional)

Description	This test verifies that the ACS can successfully authenticate a cardholder whose browser uses 40-bit SSL.
	This test must be run using a 40-bit SSL browser.
Action	1. Using a 40-bit SSL browser, go to the Run ACS Test page.
	2. Select **07 - Authentication using 40-bit SSL cipher on browser (VEReq)** from the list of test cases.
	3. Click **Send VEReq**.
	The PIT sends the VEReq to the ACS, receives a response message and then displays the VERes and the subsequent PAReq on the Review VERes/PAReq page.
	4. Select **07 - Authentication using 40-bit SSL cipher on browser (PAReq)** from the list of test cases.
	5. Click **Send PAReq**.
	The PIT sends the PAReq to the ACS via the tester's browser. The authentication form appears and ACS presents first prompt for password. ACS tester responds to the prompt with a valid password.
	Successful authentication: ACS returns a valid PARes message with a CAVV element, ECI value of "5", and Transaction Status set to "Y" to the PIT merchant. PIT evaluates the PARes message and displays the contents of the PARes and any errors found during the evaluation.
	ACS sends a PATransReq to the PIT AHS and also stores a copy of the message locally. The PIT AHS returns the PATransRes to the ACS.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

Test Case 08–Successful Merchant Attempt (Optional)

Description	**Important**: Only those Issuer ACSs that perform their own Attempts processing must perform this test. This test is to verify successful processing of a merchant attempt by the Issuer ACS.
Action	1. Go to the Run ACS Test page. 2. Select **08 - Successful Merchant Attempt (VEReq)** from the list of test cases. 3. Click **Send VEReq**. The PIT sends the VEReq to the ACS, receives a response message and then displays the VERes and the subsequent PAReq on the Review VERes/PAReq page. For this test case, the PIT must receive a VERes message with a response of "Y", indicating that the cardholder is enrolled. The PIT will present an error message if the VERes provides a response other than "Y". 4. Select "08 - Successful Merchant Attempt (PAReq)" from the list of test cases. 5. Click **Send PAReq**. The PIT sends the PAReq to the ACS via the tester's browser. 6. The authentication form appears and, instead of presenting the cardholder with an opportunity to enter their password, the window provides a "Processing…" message.. **Successful attempt**: ACS returns a valid PARes message with a CAVV element, ECI value of "6", and Transaction Status set to "A" to the PIT merchant. PIT evaluates the PARes message and displays the contents of the PARes and any errors found during the evaluation. ACS sends a PATransReq to the PIT AHS and also stores a copy of the message locally. The PIT AHS returns the PATransRes to the ACS.
Expected Results	Expected Results: All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

Test Case 15–CAVV Validation with Issuer PAN/keys (Optional)

Description	This test is to verify correct generation of CAVV values, by submitting an authorization request message to VCMS.
	Important: *Please contact your Visa Region representative for information and authorization to perform this test case.*
Action	1. Go to the Run ACS Test page.
	2. Select **15 - CAVV Validation with Issuer PAN/keys (VEReq**) from the list of test cases.
	The screen will show the VEReq that the PIT will send to the ACS. The tester must replace the PAN in the VEReq message (which is literally "REPLACE_WITH_ISSUER_PAN") with a PAN value that is associated with the issuer in VCMS.
	The PIT sends the VEReq to the ACS, receives a response message and then displays the VERes and the subsequent PAReq on the Review VERes/PAReq page.
	3. Select **15 – CAVV Validation with Issuer PAN/keys (PAReq)** from the list of test cases.
	4. Click **Send PAReq**.
	The PIT sends the PAReq to the ACS via the tester's browser. The authentication form appears and ACS presents first prompt for password. ACS tester responds to the prompt with a valid password.
	Successful authentication: ACS returns a valid PARes message with a CAVV element, ECI value of "5", and Transaction Status set to "Y" to the PIT merchant. PIT evaluates the PARes message and displays the contents of the PARes and any errors found during the evaluation.
	5. Click **Submit to VCMS** to cause the PIT to generate and submit an authorization request message to VCMS.
	The Authorization Source Code, the Response Code, and the CAVV Result Code will be displayed to the tester.
	ACS sends a PATransReq to the PIT AHS and also stores a copy of the message locally. The PIT AHS returns the PATransRes to the ACS.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

Test Case 16–CAVV Validation with PIT PAN/keys (Optional)

Description	This test is to verify correct generation of CAVV values, by submitting an authorization request message to VCMS.
	Important: Please contact your Visa Region representative for information and authorization to perform this test case.
Action	1. Go to the Run ACS Test page.
	2. Select **16 - CAVV Validation with PIT PAN/keys (VEReq)** from the list of test cases.
	The screen will show the VEReq that the PIT will send to the ACS. The ACS must enroll the PIT's default PAN for this test case (4005551122334450), because this PAN in particular is associated with the PIT's CAVV generation keys.
	3. Click **Send VEReq**.
	The PIT sends the VEReq to the ACS, receives a response message and then displays the VERes and the subsequent PAReq on the Review VERes/PAReq page.
	4. Select **16 – CAVV Validation with PIT PAN/keys (PAReq)** from the list of test cases.
	5. Click **Send PAReq**.
	The PIT sends the PAReq to the ACS via the tester's browser. The authentication form appears and ACS presents first prompt for password. ACS tester responds to the prompt with a valid password.
	Successful authentication: ACS returns a valid PARes message with a CAVV element, ECI value of "5", and Transaction Status set to "Y" to the PIT merchant. PIT evaluates the PARes message and displays the contents of the PARes and any errors found during the evaluation.
	6. Click **Submit to VCMS** to cause the PIT to generate and submit an authorization request message to VCMS. The Authorization Source Code, the Response Code, and the CAVV Result Code will be displayed to the tester.
	ACS sends a PATransReq to the PIT AHS and also stores a copy of the message locally. The PIT AHS returns the PATransRes to the ACS.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

4. U.S. Region Required Test Cases

The test cases in this section are required for U.S. Region Issuer ACS implementations. Test cases US001-US005 are only required for Issuer implementations that will offer Activation During Shopping; Test cases US006-US079 are required for all ACS implementations.

4.1   Activation During Shopping (ADS)

The test cases in this section are required for U.S. Region Issuer ACS implementations that offer "Activation During Shopping" (ADS), in which the ACS offers the cardholder the opportunity to enroll in 3-D Secure during 3-D Secure processing. In addition to successfully passing these PIT test cases, U.S. Region Issuers that offer Activation During Shopping must receive approval for their Activation During Shopping implementation from

Visa U.S.A. prior to coming live in production. To obtain this approval, U.S. Issuers (or their Verified by Visa processor) must submit a "Verified by Visa Activation During Shopping Approval Form" to Visa U.S.A. for review. For a copy of the form and more information on the review process, Issuers should contact their Visa representative.

US001–Successful ADS Cardholder Enrollment

Description	This test is to verify correct processing of a successful cardholder enrollment via an Activation During Shopping process. The ACS must provide a "successful" authentication PARes response (Transaction Status = "Y") to the merchant.
Action	1. Go to the Run ACS Test page.
	2. Select **US001 - Successful ADS Cardholder Enrollment Test Case (VEReq)** from the list of test cases.
	The screen shows the VEReq that the PIT will send to the ACS. The ACS tester must substitute the PAN provided by The PIT with a PAN for which a successful ADS enrollment can be performed by the Issuer's ACS. The tester must edit the <PAN> field in the XML, replacing the PIT's PAN with the desired PAN.
	3. Click **Send VEReq**.
	The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives and the PAReq that will be sent to the ACS per the US001 - Successful ADS Cardholder Enrollment Test Case (PAReq) message that continues this test case. For this test case, the PIT must receive a VERes message with a response of "Y", indicating that the cardholder is enrolled. The PIT will present an error message if the VERes provides a response other than "Y".
	4. Click **Send PAReq**.
	The PIT sends the PAReq to the ACS via the tester's browser. Authentication window appears and ACS presents its Activation During Shopping window.
	Successful ADS Enrollment: ACS Tester enrolls the PAN using the Activation During Shopping methodology employed by the ACS. ACS returns a valid PARes message with CAVV value, ECI value of "5", and Transaction Status set to "Y" to The PIT merchant. PIT evaluates the PARes message and displays the contents of the PARes and any errors found during the evaluation.
	ACS sends a PATransReq to The PIT AHS and also stores a copy of the message locally. The PIT AHS returns the PATransRes to the ACS.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US002–Cardholder Opt-Out of Password Selection

Description	This test is to verify correct processing when, during Activation During Shopping, the cardholder succeeds in authenticating themselves but subsequently, when presented with the "Create Password" page, opts out of password selection. When the cardholder opts out of creating a Verified by Visa password, the ACS must provide an "Attempts" PARes response (Transaction Status = "A") to the merchant.
Action	1. Go to the Run ACS Test page. 2. Select **US002 - Cardholder Opt-Out of Password Selection (VEReq)** from the list of test cases. The screen shows the VEReq that the PIT will send to the ACS. The ACS tester must substitute the PAN provided by The PIT with a PAN for which a successful ADS enrollment can be performed by the Issuer's ACS. The tester must edit the <PAN> field in the XML, replacing the PIT's PAN with the desired PAN. 3. Click **Send VEReq**. The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives and the PAReq that will be sent to the ACS per the US002 - Cardholder Opt-Out of Password Selection (PAReq) message that continues this test case. For this test case, the PIT must receive a VERes message with a response of "Y", indicating that the cardholder is enrolled. The PIT will present an error message if the VERes provides a response other than "Y". 4. Click **Send PAReq**. The PIT sends the PAReq to the ACS via the tester's browser. **Cardholder Opt-Out of Password Selection**: ACS tester successfully authenticates using the Issuer authentication methodology. However, when presented the subsequent "Password Selection" page, the ACS tester opts out of password selection. ACS returns a valid PARes message with a CAVV value and Transaction Status set to "A" to The PIT merchant. PIT evaluates the PARes message and displays the contents of the PARes and any errors found during the evaluation. ACS sends a PATransReq to The PIT AHS and also stores a copy of the message locally. The PIT AHS returns the PATransRes to the ACS.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US003–Cardholder Opt-Out of ADS Enrollment (1.0.2 Protocol)

Description	This test is to verify correct processing when the cardholder opts out of 3-D Secure enrollment during Activation During Shopping processing at a merchant on 3-D Secure Protocol 1.0.2. When the cardholder opts out of Activation During Shopping, the ACS must provide an Attempts PARes response (Transaction Status = "A") to the merchant.
Action	1. Go to the Run ACS Test page. 2. Select **US003 - Cardholder Opt-Out of ADS Enrollment – 1.0.2 Protocol (VEReq)** from the list of test cases. The screen shows the VEReq that the PIT will send to the ACS. The ACS tester must substitute the PAN provided by The PIT with a PAN for which the ACS will attempt Activation During Shopping. The tester must edit the \<PAN> field in the XML, replacing the PIT's PAN with the desired PAN. 3. Click **Send VEReq**. The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives and the PAReq that will be sent to the ACS per the US003 - Cardholder Opt-Out of ADS Enrollment – 1.0.2 Protocol (PAReq) message that continues this test case. For this test case, the PIT must receive a VERes message with a response of "Y", indicating that the cardholder is enrolled. The PIT will present an error message if the VERes provides a response other than "Y". 4. Click **Send PAReq**. The PIT sends the PAReq to the ACS via the tester's browser. Authentication window appears and the ACS presents its Activation During Shopping window. **Cardholder Opt Out of ADS Enrollment**: ACS Tester opts out of ADS enrollment. ACS returns a valid PARes message with CAVV value, ECI value of "6", and Transaction Status set to "A" to The PIT merchant. PIT evaluates the PARes message and displays the contents of the PARes and any errors found during the evaluation. ACS sends a PATransReq to The PIT AHS and also stores a copy of the message locally. The PIT AHS returns the PATransRes to the ACS.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US004–Cardholder Opt-Out of ADS Enrollment (1.0.1 Protocol)

Description	This test is to verify correct processing when the cardholder opts out of 3-D Secure enrollment during Activation During Shopping processing at a merchant on 3-D Secure Protocol 1.0.1. When the cardholder opts out of Activation During Shopping, the ACS must provide an "Authentication Not Available" PARes response (Transaction Status = "U") to the merchant.
Action	1. Go to the Run ACS Test page. 2. Select **US004 - Cardholder Opt-Out of ADS Enrollment – 1.0.1 Protocol (VEReq)** from the list of test cases. The screen shows the VEReq that the PIT will send to the ACS. The ACS tester must substitute the PAN provided by The PIT with a PAN for which the ACS will attempt Activation During Shopping. The tester must edit the <PAN> field in the XML, replacing the PIT's PAN with the desired PAN. 3. Click **Send VEReq**. The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives and the PAReq that will be sent to the ACS per the US004 - Cardholder Opt-Out of ADS Enrollment – 1.0.1 Protocol (PAReq) message that continues this test case. For this test case, the PIT must receive a VERes message with a response of "Y", indicating that the cardholder is enrolled. The PIT will present an error message if the VERes provides a response other than "Y". 4. Click **Send PAReq**. The PIT sends the PAReq to the ACS via the tester's browser. Authentication window appears and the ACS presents its Activation During Shopping window. Cardholder Opt Out of ADS Enrollment: ACS Tester opts out of ADS enrollment. ACS returns a valid PARes message with Transaction Status set to "U" to The PIT merchant. PIT evaluates the PARes message and displays the contents of the PARes and any errors found during the evaluation. ACS sends a PATransReq to The PIT AHS and also stores a copy of the message locally. The PIT AHS returns the PATransRes to the ACS.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US005–ADS Enrollment Failure

Description	This test is to verify correct ACS processing when the cardholder fails to be successfully authenticated during Activation During Shopping enrollment processing. The ACS must provide a "failed" authentication PARes response (Transaction Status = "N") to the merchant.
Action	1. Go to the Run ACS Test page. 2. Select **US005 - ADS Enrollment Failure (VEReq)** from the list of test cases. The screen shows the VEReq that the PIT will send to the ACS. The ACS tester must substitute the PAN provided by The PIT with a PAN for which the ACS will attempt Activation During Shopping. The tester must edit the <PAN> field in the XML, replacing the PIT's PAN with the desired PAN. 3. Click **Send VEReq**. The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives and the PAReq that will be sent to the ACS per the US005 - ADS Enrollment Failure (PAReq) message that continues this test case. For this test case, the PIT must receive a VERes message with a response of "Y", indicating that the cardholder is enrolled. The PIT will present an error message if the VERes provides a response other than "Y". The PIT sends the PAReq to the ACS via the tester's browser. Authentication window appears and the ACS presents its Activation During Shopping window. **Cardholder Enrollment Failure**: ACS tester fails to successfully enroll via the ADS process. ACS returns a valid PARes message without a CAVV value and Transaction Status set to "N" to The PIT merchant. PIT evaluates the PARes message and displays the contents of the PARes and any errors found during the evaluation. ACS sends a PATransReq to The PIT AHS and also stores a copy of the message locally. The PIT AHS returns the PATransRes to the ACS.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

4.2   Issuer ACS Test Cases: VEReq

The ACS test cases in this section are required for all U.S. Region Issuer ACS implementations that pertain to VEReq messages.

US006–VEReq Message without Accept Header

Description	This test is to verify correct processing of a Verify Enrollment Request message with no Accept Header tags and no data. The ACS must ignore the missing Accept Header and provide a Verify Enrollment response with cardholder enrollment status of "Y" to the merchant.
Action	1. Go to the Run ACS Test page. 2. Select **US006 – VEReq Message without Accept Header (VEReq)** from the list of test cases. The screen shows the VEReq that the PIT will send to the ACS. If the ACS has enrolled the PIT's default PAN, click **Send VEReq**. To proceed with a different PAN, edit the <PAN> field in the XML, replacing the PIT's PAN with the desired PAN. 3. Click **Send VEReq**. The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives. For this test case, the PIT must receive a VERes message with a response of "Y", indicating that the cardholder is enrolled. The PIT will present an error message if the VERes provides a response other than "Y".
Allowable Results	Not applicable.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US007−VEReq Message with Accept Header tags, no data

Description	This test is to verify correct processing of a Verify Enrollment Request message with Accept Header tags but without Accept Header data. The ACS must ignore the missing data and provide a Verify Enrollment response with cardholder enrollment status of "Y" to the merchant.
Action	1. Go to the Run ACS Test page. 2. Select **US007 – VEReq Message with Accept Header tags, no data (VEReq)** from the list of test cases. The screen shows the VEReq that the PIT will send to the ACS. If the ACS has enrolled the PIT's default PAN, click **Send VEReq**. 3. To proceed with a different PAN, edit the <PAN> field in the XML, replacing the PIT's PAN with the desired PAN; then click **Send VEReq**. The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives. For this test case, the PIT must receive a VERes message with a response of "Y", indicating that the cardholder is enrolled. The PIT will present an error message if the VERes provides a response other than "Y".
Allowable Results	Not applicable.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US008–VEReq Message with Accept Header that exceeds maximum length

Description	This test is to verify correct processing of a Verify Enrollment Request message with an Accept Header that exceeds the maximum allowable length of 256 bytes. The ACS must return a 3-D Secure error message to the merchant.
Action	1. Go to the Run ACS Test page. 2. Select **US008 – VEReq Message with Accept Header that exceeds maximum length (VEReq)** from the list of test cases. The screen shows the VEReq that the PIT will send to the ACS. If the ACS has enrolled the PIT's default PAN, click **Send VEReq**. To proceed with a different PAN, edit the <PAN> field in the XML, replacing the PIT's PAN with the desired PAN 3. Click **Send VEReq**. The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives. For this test case, the PIT must receive a 3-D Secure error message. The PIT will present an error message if the ACS provides a response other than the error message.
Allowable Results	Not applicable.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If a PIT error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US012–VEReq Message without Acquirer BIN

Description	This test is to verify correct processing of a Verify Enrollment Request message with no Acquirer BIN tags and no data. The ACS must return a 3-D Secure error message.
Action	1. Go to the Run ACS Test page. 2. Select **US012 – VEReq Message without Acquirer BIN (VEReq)** from the list of test cases. The screen shows the VEReq that the PIT will send to the ACS. If the ACS has enrolled the PIT's default PAN, click **Send VEReq**. 3. To proceed with a different PAN, edit the <PAN> field in the XML, replacing the PIT's PAN with the desired PAN. 4. Click **Send VEReq**. The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives. For this test case, the PIT must receive a 3-D Secure error message. The PIT will present an error message if it does not receive the 3-D Secure error message.
Allowable Results	The ACS must return an Error message with either ErrorCode=3 or ErrorCode=5. As long as the actual error field is identified, this test will be considered a success (despite semantic differences).
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US013–VEReq Message with Acquirer BIN tags, no data

Description	This test is to verify correct processing of a Verify Enrollment Request message that contains Acquirer BIN tags but no data. The ACS must return a 3-D Secure error message.
Action	Go to the Run ACS Test page. Select **US013– VEReq Message with Acquirer BIN tags, no data (VEReq)** from the list of test cases. The screen shows the VEReq that the PIT will send to the ACS. If the ACS has enrolled the PIT's default PAN, click **Send VEReq**. To proceed with a different PAN, edit the <PAN> field in the XML, replacing the PIT's PAN with the desired PAN Click **Send VEReq**. The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives. For this test case, the PIT must receive a 3-D Secure error message. The PIT will present an error message if it does not receive the 3-D Secure error message.
Allowable Results	The ACS must return an Error message with either ErrorCode=3 or ErrorCode=5. As long as the actual error field is identified, this test will be considered a success

	(despite semantic differences).
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US017–VEReq Message without Cardholder PAN

Description	This test is to verify correct processing of a Verify Enrollment Request message with no Cardholder PAN tags and no data. The ACS must return a 3-D Secure error message.
Action	1. Go to the Run ACS Test page. 2. Select **US017– VEReq Message without Cardholder PAN (VEReq)** from the list of test cases. The screen shows the VEReq that the PIT will send to the ACS. Unlike other, similar test cases, do not put a PAN in the PAN field. 3. Click **Send VEReq**. The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives. For this test case, the PIT must receive a 3-D Secure error message. The PIT will present an error message if it does not receive a 3-D Secure error message.
Allowable Results	The ACS must return an Error message with either ErrorCode=3 or ErrorCode=5.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US018–VEReq Message with Cardholder PAN tags, no data

Description	This test is to verify correct processing of a Verify Enrollment Request message that contains Cardholder PAN tags but no data. The ACS must return a 3-D Secure error message.
Action	Go to the Run ACS Test page. Select **US018– VEReq Message with Cardholder PAN tags, no data (VEReq)** from the list of test cases. The screen shows the VEReq that the PIT will send to the ACS. Unlike other, similar test cases, do not put a PAN in the PAN field. Click **Send VEReq**. The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives. For this test case, the PIT must receive a 3-D Secure error message. The PIT will present an error message if it does not receive a 3-D Secure error message.
Allowable Results	The ACS must return an Error message with either ErrorCode=3 or ErrorCode=5.

Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US019–VEReq Message with Cardholder PAN that exceeds maximum length

Description	This test is to verify correct processing of a Verify Enrollment Request message that contains Cardholder PAN data that exceeds the maximum allowable length of 19 bytes. The ACS must return a 3-D Secure error message.
Action	1. Go to the Run ACS Test page. Select US019– VEReq Message with Cardholder PAN that exceeds maximum length (VEReq) from the list of test cases. The screen shows the VEReq that the PIT will send to the ACS. Unlike other, similar test cases, do not put a PAN in the PAN field. 2. Click **Send VEReq**. The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives. For this test case, the PIT must receive a 3-D Secure error message. The PIT will present an error message if it does not receive a 3-D Secure error message.
Allowable Results	The ACS must return an Error message with either ErrorCode=3 or ErrorCode=5.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US022–VEReq Message without Device Category

Description	This test is to verify correct processing of a Verify Enrollment Request message with no Device Category tags and no data. The ACS must return a Verify Enrollment Response with cardholder enrollment value of 'U'.
Action	Go to the Run ACS Test page. Select **US022 – VEReq Message without Device Category (VEReq)** from the list of test cases. The screen shows the VEReq that the PIT will send to the ACS. If the ACS has enrolled the PIT's default PAN, click **Send VEReq**. To proceed with a different PAN, edit the <PAN> field in the XML, replacing the PIT's PAN with the desired PAN Click **Send VEReq**. The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives. For this test case, the PIT must receive a VERes message with cardholder enrollment value of "U". The PIT will present an error message if it does not receive this response.

Allowable Results	Not applicable.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US023–VEReq Message with Device Category of '1'

Description	This test is to verify correct processing of a Verify Enrollment Request message with Device Category value of '1'. The ACS must return a Verify Enrollment Response with cardholder enrollment value of 'U'.
	Note: If the ACS does support authentication via mobile devices, a Verify Enrollment Response with cardholder enrollment value of "Y" is acceptable. In this case only, ignore the PIT error message.
Action	1. Go to the Run ACS Test page.
	2. Select **US023 – VEReq Message with Device Category of '1' (VEReq)** from the list of test cases.
	The screen shows the VEReq that the PIT will send to the ACS. If the ACS has enrolled the PIT's default PAN, click **Send VEReq**.
	3. To proceed with a different PAN, edit the <PAN> field in the XML, replacing the PIT's PAN with the desired PAN.
	4. Click **Send VEReq**.
	The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives. For this test case, the PIT must receive a VERes message with cardholder enrollment value of "U". The PIT will present an error message if it does not receive this response.
Allowable Results	Not applicable.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US024–VEReq Message with Device Category that exceeds maximum length

Description	This test is to verify correct processing of a Verify Enrollment Request message that contains Device Category data that exceeds the maximum allowable length of 1 byte. The ACS must return a 3-D Secure error message.
Action	1. Go to the Run ACS Test page.
	2. Select **US024– VEReq Message with Device Category that exceeds maximum length (VEReq)** from the list of test cases.
	The screen shows the VEReq that the PIT will send to the ACS. If the ACS has enrolled the PIT's default PAN, click **Send VEReq**.
	3. To proceed with a different PAN, edit the <PAN> field in the XML, replacing the

	PIT's PAN with the desired PAN.
	4. Click **Send VEReq**.
	The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives. For this test case, the PIT must receive a 3-D Secure error message. The PIT will present an error message if it does not receive a 3-D Secure error message.
Allowable Results	The ACS must return an Error message with either ErrorCode=3 or ErrorCode=5. As long as the actual error field is identified, this test will be considered a success (despite semantic differences). The ACS may also return a VERes message with cardholder enrollment value of "U" with an iReq=55.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US034–VEReq Message without Merchant ID

Description	This test is to verify correct processing of a Verify Enrollment Request message with no Merchant ID tags and no data. The ACS must return a 3-D Secure error message.
Action	1. Go to the Run ACS Test page.
	2. Select **US034 – VEReq Message without Merchant ID (VEReq)** from the list of test cases.
	The screen shows the VEReq that the PIT will send to the ACS. If the ACS has enrolled the PIT's default PAN, click **Send VEReq**.
	3. To proceed with a different PAN, edit the <PAN> field in the XML, replacing the PIT's PAN with the desired PAN; then click **Send VEReq**.
	The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives. For this test case, the PIT must receive a 3-D Secure error message. The PIT will present an error message if it does not receive this response.
Allowable Results	The ACS must return an Error message with either ErrorCode=3 or ErrorCode=5. As long as the actual error field is identified, this test will be considered a success (despite semantic differences). The ACS may also return a PARes message with cardholder enrollment value of "U" with an iReq=55.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US035–VEReq Message with Merchant ID tags, no data

Description	This test is to verify correct processing of a Verify Enrollment Request message with Merchant ID tags but no data. The ACS must return a 3-D Secure error message.
Action	1. Go to the Run ACS Test page. 2. Select **US035 – VEReq Message with Merchant ID tags, no data (VEReq)** from the list of test cases. The screen shows the VEReq that the PIT will send to the ACS. If the ACS has enrolled the PIT's default PAN, click **Send VEReq**. 3. To proceed with a different PAN, edit the <PAN> field in the XML, replacing the PIT's PAN with the desired PAN 4. Click **Send VEReq**. The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives. For this test case, the PIT must receive a 3-D Secure error message. The PIT will present an error message if it does not receive this response.
Allowable Results	The ACS must return an Error message with either ErrorCode=3 or ErrorCode=5. As long as the actual error field is identified, this test will be considered a success (despite semantic differences). The ACS may also return a PARes message with cardholder enrollment value of "U" with an iReq=55.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US036–VEReq Message with Merchant ID that exceeds maximum length

Description	This test is to verify correct processing of a Verify Enrollment Request message with Merchant ID data that exceeds the maximum allowable length of 24 bytes. The ACS must return a 3-D Secure error message.
Action	1. Go to the Run ACS Test page. 2. Select **US036 – VEReq Message with Merchant ID that exceeds maximum length (VEReq)** from the list of test cases. The screen shows the VEReq that the PIT will send to the ACS. 3. If the ACS has enrolled the PIT's default PAN, click **Send VEReq**. 4. To proceed with a different PAN, edit the <PAN> field in the XML, replacing the PIT's PAN with the desired PAN. 5. Click **Send VEReq**. The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives. For this test case, the PIT must receive a 3-D Secure error message. The PIT will present an error message if it does not receive this response.
Allowable Results	The ACS must return an Error message with either ErrorCode=3 or ErrorCode=5. As long as the actual error field is identified, this test will be considered a success

	(despite semantic differences). The ACS may also return a PARes message with cardholder enrollment value of "U" with an iReq=55.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US046–VEReq Message without Message Version Number

Description	This test is to verify correct processing of a Verify Enrollment Request message with no Message Version Number tags and no data. The ACS must return a 3-D Secure error message.
Action	Go to the Run ACS Test page. Select **US046 – VEReq Message without Message Version Number (VEReq)** from the list of test cases. The screen shows the VEReq that the PIT will send to the ACS. If the ACS has enrolled the PIT's default PAN, click **Send VEReq**. To proceed with a different PAN, edit the <PAN> field in the XML, replacing the PIT's PAN with the desired PAN; then click **Send VEReq**. The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives. For this test case, the PIT must receive a 3-D Secure error message. The PIT will present an error message if it does not receive this response.
Allowable Results	The ACS must return an Error message with either ErrorCode=3 or ErrorCode=5. As long as the actual error field is identified, this test will be considered a success (despite semantic differences). The ACS may also return a PARes message with cardholder enrollment value of "U" with an iReq=55.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US047–VEReq Message with Message Version Number tags, no data

Description	This test is to verify correct processing of a Verify Enrollment Request message with Message Version Number tags but no data. The ACS must return a 3-D Secure error message.
Action	1. Go to the Run ACS Test page.
	2. Select **US047 – VEReq Message with Message Version Number tags, no data (VEReq)** from the list of test cases.
	The screen shows the VEReq that the PIT will send to the ACS.
	3. If the ACS has enrolled the PIT's default PAN, click **Send VEReq**. To proceed with a different PAN, edit the <PAN> field in the XML, replacing the PIT's PAN with the desired PAN; then click **Send VEReq**.
	The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives. For this test case, the PIT must receive a 3-D
	Secure error message. The PIT will present an error message if it does not receive this response.
Allowable Results	The ACS must return an Error message with either ErrorCode=3 or ErrorCode=5. As long as the actual error field is identified, this test will be considered a success (despite semantic differences).
	The ACS may also return a PARes message with cardholder enrollment value of "U" with an iReq=55.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US048–VEReq Message with Message Version Number that exceeds maximum length

Description	This test is to verify correct processing of a Verify Enrollment Request message with Message Version Number that exceeds maximum allowable length of 16 bytes. The ACS must return a 3-D Secure error message.
Action	Go to the Run ACS Test page.
	Select **US048 – VEReq Message with Message Version Number that exceeds maximum length (VEReq)** from the list of test cases.
	The screen shows the VEReq that the PIT will send to the ACS.
	If the ACS has enrolled the PIT's default PAN, click **Send VEReq**.
	To proceed with a different PAN, edit the <PAN> field in the XML, replacing the PIT's PAN with the desired PAN.
	Click **Send VEReq**.
	The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives. For this test case, the PIT must receive a 3-D Secure error message. The PIT will present an

	error message if it does not receive this response.
Allowable Results	The ACS must return an Error message with either ErrorCode=3 or ErrorCode=5. As long as the actual error field is identified, this test will be considered a success (despite semantic differences). The ACS may also return a PARes message with cardholder enrollment value of "U" with an iReq=55.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US055–VEReq Message without Password

Description	This test is to verify correct processing of a Verify Enrollment Request message with no Device Category tags and no data. The ACS must return a Verify Enrollment Response with cardholder enrollment value of 'Y'.
Action	1. Go to the Run ACS Test page. 2. Select **US055 – VEReq Message without Password (VEReq)** from the list of test cases. 3. The screen shows the VEReq that the PIT will send to the ACS. 4. If the ACS has enrolled the PIT's default PAN, click **Send VEReq**. 5. To proceed with a different PAN, edit the <PAN> field in the XML, replacing the PIT's PAN with the desired PAN; then click **Send VEReq**. The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives. For this test case, the PIT must receive a VERes message with cardholder enrollment value of "Y". The PIT will present an error message if it does not receive this response.
Allowable Results	Not applicable.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US056–VEReq Message with Password tags, no data

Description	This test is to verify correct processing of a Verify Enrollment Request message with Device Category tags but no data. The ACS must return a Verify Enrollment Response with cardholder enrollment value of 'Y'.
Action	1. Go to the Run ACS Test page. 2. Select **US056 – VEReq Message with Password tags, no data (VEReq)** from the list of test cases. The screen shows the VEReq that the PIT will send to the ACS. 3. If the ACS has enrolled the PIT's default PAN, click **Send VEReq**. 4. To proceed with a different PAN, edit the <PAN> field in the XML, replacing the PIT's PAN with the desired PAN 5. Click **Send VEReq**. The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives. For this test case, the PIT must receive a VERes message with cardholder enrollment value of "Y". The PIT will present an error message if it does not receive this response.
Allowable Results	Not applicable.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US077–VEReq Message without User Agent

Description	This test is to verify correct processing of a Verify Enrollment Request message with no User Agent tags and no data. The ACS must return a Verify Enrollment Response with cardholder enrollment value of 'Y'.
Action	1. Go to the Run ACS Test page. 2. Select **US077 – VEReq Message without User Agent (VEReq)** from the list of test cases. The screen shows the VEReq that the PIT will send to the ACS. 3. If the ACS has enrolled the PIT's default PAN, click **Send VEReq**. 4. To proceed with a different PAN, edit the <PAN> field in the XML, replacing the PIT's PAN with the desired PAN; then click **Send VEReq**. The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives. For this test case, the PIT must receive a VERes message with cardholder enrollment value of "Y". The PIT will present an error message if it does not receive this response.
Allowable Results	Not applicable.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error

	and re-perform the test case in its entirety until the test is completed successfully.

US078–VEReq Message with User Agent tags, no data

Description	This test is to verify correct processing of a Verify Enrollment Request message with User Agent tags but no data. The ACS must return a Verify Enrollment Response with cardholder enrollment value of 'Y'.
Action	1. Go to the Run ACS Test page. 2. Select **US078 – VEReq Message with User Agent tags, no data (VEReq)** from the list of test cases. The screen shows the VEReq that the PIT will send to the ACS. 3. If the ACS has enrolled the PIT's default PAN, click **Send VEReq**. 4. To proceed with a different PAN, edit the \<PAN\> field in the XML, replacing the PIT's PAN with the desired PAN. 5. Click **Send VEReq**. The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives. For this test case, the PIT must receive a VERes message with cardholder enrollment value of "Y". The PIT will present an error message if it does not receive this response.
Allowable Results	Not applicable.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US079–VEReq Message with User Agent that exceeds maximum length

Description	This test is to verify correct processing of a Verify Enrollment Request message with User Agent that exceeds maximum allowable length of 256 bytes. The ACS must return a Verify Enrollment Response with cardholder enrollment value of 'Y'.
Action	1. Go to the Run ACS Test page. 2. Select **US079 – VEReq Message with User Agent that exceeds maximum length (VEReq)** from the list of test cases. The screen shows the VEReq that the PIT will send to the ACS. 3. If the ACS has enrolled the PIT's default PAN, click **Send VEReq**. 4. To proceed with a different PAN, edit the \<PAN\> field in the XML, replacing the PIT's PAN with the desired PAN. 5. Click **Send VEReq**. The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives. For this test case, the PIT must receive a VERes message with cardholder enrollment value of "Y". The PIT will present an error message if it does not receive this response.

Allowable Results	Not applicable.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

4.3   Issuer ACS Test Cases: PAReq

The ACS test cases in this section are required for all U.S. Region Issuer ACS implementations that pertain to PAReq messages.

US009–PAReq Message without Account Identifier

Description	This test is to verify correct processing of a Payer Authentication Request message with no Account Identifier tags and no data. The ACS must provide a PARes message with Transaction Status of "U" and Ireq code of '55' to the merchant.
Action	1. Go to the Run ACS Test page. 2. Select **US009 – PAReq message without Account Identifier (VEReq)** from the list of test cases. The screen shows the VEReq that the PIT will send to the ACS. 3. If the ACS has enrolled the PIT's default PAN, click **Send VEReq**. 4. To proceed with a different PAN, edit the \<PAN> field in the XML, replacing the PIT's PAN with the desired PAN; then click **Send VEReq**. The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives and the PAReq that will be sent to the ACS per the 009 – PAReq message without Account Identifier (PAReq) message that continues this test case. For this test case, the PIT must receive a VERes message with a response of "Y", indicating that the cardholder is enrolled. The PIT will present an error message if the VERes provides a response other than "Y". 5. Click **Send PAReq**. The PIT sends the PAReq to the ACS via the tester's browser. Authentication window briefly appears while the ACS processes the request and sends the PARes response. ACS sends a PARes with Transaction Status of "U" and Ireq code of '55'. PIT evaluates the PARes message and displays the contents of the PARes and any errors found during the evaluation. ACS sends a PATransReq to The PIT AHS and also stores a copy of the message locally. The PIT AHS returns the PATransRes to the ACS.
Allowable Results	The ACS may also return an Error message with ErrorCode=3 or ErrorCode=5 instead of a PARes.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US010–PAReq Message with Account Identifier tags, no data

Description	This test is to verify correct processing of a Payer Authentication Request message that contains Account Identifier tags but no data. The ACS must provide a PARes message with Transaction Status of "U" and Ireq code of '55' to the merchant.
Action	1. Go to the Run ACS Test page. 2. Select **US010 – PAReq message with Account Identifier tags, no data (VEReq)** from the list of test cases. The screen shows the VEReq that the PIT will send to the ACS. 3. If the ACS has enrolled the PIT's default PAN, click **Send VEReq**. 4. To proceed with a different PAN, edit the <PAN> field in the XML, replacing the PIT's PAN with the desired PAN; then click **Send VEReq**. The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives and the PAReq that will be sent to the ACS per the US010 – PAReq message with Account Identifier tags, no data (PAReq) message that continues this test case. For this test case, the PIT must receive a VERes message with a response of "Y", indicating that the cardholder is enrolled. The PIT will present an error message if the VERes provides a response other than "Y". 5. Click **Send PAReq**. The PIT sends the PAReq to the ACS via the tester's browser. Authentication window briefly appears while the ACS processes the request and sends the PARes response. ACS sends a PARes with Transaction Status of "U" and Ireq code of '55'. PIT evaluates the PARes message and displays the contents of the PARes and any errors found during the evaluation. ACS sends a PATransReq to The PIT AHS and also stores a copy of the message locally. The PIT AHS returns the PATransRes to the ACS.
Allowable Results	Not applicable.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US011–PAReq Message with Account Identifier that exceeds maximum length

Description	This test is to verify correct processing of a Payer Authentication Request message that contains Account Identifier data that exceeds the maximum allowable length of 28 bytes. The ACS must provide a PARes message with Transaction Status of "U" and Ireq code of '55' to the merchant.
Action	1. Go to the Run ACS Test page. 2. Select **US011 – PAReq message with Account Identifier that exceeds maximum length (VEReq)** from the list of test cases. The screen shows the VEReq that the PIT will send to the ACS. 3. If the ACS has enrolled the PIT's default PAN, click **Send VEReq**. 4. To proceed with a different PAN, edit the <PAN> field in the XML, replacing the PIT's PAN with the desired PAN; then click **Send VEReq**. The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives and the PAReq that will be sent to the ACS per the US011 – PAReq message with Account Identifier that exceeds maximum length (PAReq)" message that continues this test case. For this test case, the PIT must receive a VERes message with a response of "Y", indicating that the cardholder is enrolled. The PIT will present an error message if the VERes provides a response other than "Y". 5. Click **Send PAReq**. The PIT sends the PAReq to the ACS via the tester's browser. Authentication window briefly appears while the ACS processes the request and sends the PARes response. ACS sends a PARes with Transaction Status of "U" and Ireq code of '55'. PIT evaluates the PARes message and displays the contents of the PARes and any errors found during the evaluation. ACS sends a PATransReq to The PIT AHS and also stores a copy of the message locally. The PIT AHS returns the PATransRes to the ACS.
Allowable Results	The ACS may also return an Error message with either ErrorCode=3 or ErrorCode=5 instead of a PARes.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US014–PAReq Message without Card Expiry Date

Description	This test is to verify correct processing of a Payer Authentication Request message with no Card Expiry Date tags and no data. The ACS must return a 3-D Secure error message.
Action	1. Go to the Run ACS Test page. 2. Select **US014 – PAReq message without Card Expiry Date (VEReq)** from the list of test cases. The screen shows the VEReq that the PIT will send to the ACS. 3. If the ACS has enrolled the PIT's default PAN, click **Send VEReq**. 4. To proceed with a different PAN, edit the <PAN> field in the XML, replacing the PIT's PAN with the desired PAN; then click **Send VEReq**. The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives and the PAReq that will be sent to the ACS per the US014 – PAReq message without Card Expiry Date (PAReq) message that continues this test case. For this test case, the PIT must receive a VERes message with a response of "Y", indicating that the cardholder is enrolled. The PIT will present an error message if the VERes provides a response other than "Y". 5. Click **Send PAReq**. The PIT sends the PAReq to the ACS via the tester's browser. Authentication window briefly appears while the ACS processes the request and sends the 3-D Secure error response. ACS sends a 3-D Secure error message. PIT evaluates the error message and displays any errors found during the evaluation.
Allowable Results	The ACS must return an Error message with either ErrorCode=3 or ErrorCode=5. As long as the actual error field is identified, this test will be considered a success (despite semantic differences).
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US015–PAReq Message with Card Expiry Date tags, no data

Description	This test is to verify correct processing of a Payer Authentication Request message that contains Card Expiry Date tags but no data. The ACS must return a 3-D Secure error message.
Action	1. Go to the Run ACS Test page. 2. Select **US015 – PAReq message with Card Expiry Date tags, no data (VEReq)** from the list of test cases. The screen shows the VEReq that the PIT will send to the ACS. 3. If the ACS has enrolled the PIT's default PAN, click **Send VEReq**. 4. To proceed with a different PAN, edit the <PAN> field in the XML, replacing the PIT's PAN with the desired PAN; then click **Send VEReq**. The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives and the PAReq that will be sent to the ACS per the US015 – PAReq message with Card Expiry Date tags, no data (PAReq) message that continues this test case. For this test case, the PIT must receive a VERes message with a response of "Y", indicating that the cardholder is enrolled. The PIT will present an error message if the VERes provides a response other than "Y". 5. Click **Send PAReq**. The PIT sends the PAReq to the ACS via the tester's browser. Authentication window briefly appears while the ACS processes the request and sends the 3-D Secure error response. ACS sends a 3-D Secure error message. PIT evaluates the error message and displays any errors found during the evaluation.
Allowable Results	The ACS must return an Error message with either ErrorCode=3 or ErrorCode=5. As long as the actual error field is identified, this test will be considered a success (despite semantic differences).
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US016–PAReq Message with Card Expiry Date that exceeds maximum length

Description	This test is to verify correct processing of a Payer Authentication Request message that contains Card Expiry Date data that exceeds the maximum allowable length of 4 bytes. The ACS must return a 3-D Secure error message.
Action	1. Go to the Run ACS Test page. 2. Select **US016 – PAReq message with Card Expiry Date that exceeds maximum length (VEReq)** from the list of test cases. The screen shows the VEReq that the PIT will send to the ACS. 3. If the ACS has enrolled the PIT's default PAN, click **Send VEReq**. To proceed with a different PAN, edit the <PAN> field in the XML, replacing the PIT's PAN with the desired PAN; then click **Send VEReq**. The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives and the PAReq that will be sent to the ACS per the US016 – PAReq message with Card Expiry Date that exceeds maximum length (PAReq)" message that continues this test case. For this test case, the PIT must receive a VERes message with a response of "Y", indicating that the cardholder is enrolled. The PIT will present an error message if the VERes provides a response other than "Y". 4. Click **Send PAReq**. The PIT sends the PAReq to the ACS via the tester's browser. Authentication window briefly appears while the ACS processes the request and sends the 3-D Secure error response. ACS sends a 3-D Secure error message. PIT evaluates the error message and displays any errors found during the evaluation.
Allowable Results	The ACS must return an Error message with either ErrorCode=3 or ErrorCode=5.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US020–PAReq Message without Currency Exponent

Description	This test is to verify correct processing of a Payer Authentication Request message with no Currency Exponent tags and no data. The ACS must return a 3-D Secure error message.
Action	1. Go to the Run ACS Test page. 2. Select **US020 – PAReq message without Currency Exponent (VEReq)** from the list of test cases. The screen shows the VEReq that the PIT will send to the ACS. 3. If the ACS has enrolled the PIT's default PAN, click **Send VEReq**. 4. To proceed with a different PAN, edit the <PAN> field in the XML, replacing the PIT's PAN with the desired PAN; then click **Send VEReq**. The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives and the PAReq that will be sent to the ACS per the US020 – PAReq message without Currency Exponent (PAReq) message that continues this test case. For this test case, the PIT must receive a VERes message with a response of "Y", indicating that the cardholder is enrolled. The PIT will present an error message if the VERes provides a response other than "Y". 5. Click **Send PAReq**. The PIT sends the PAReq to the ACS via the tester's browser. Authentication window briefly appears while the ACS processes the request and sends the 3-D Secure error response. ACS sends a 3-D Secure error message. PIT evaluates the error message and displays any errors found during the evaluation.
Allowable Results	The ACS must return an Error message with either ErrorCode=3 or ErrorCode=5.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US021–PAReq Message with Currency Exponent tags, no data

Description	This test is to verify correct processing of a Payer Authentication Request message that contains Currency Exponent tags but no data. The ACS must return a 3-D Secure error message.
Action	1. Go to the Run ACS Test page. 2. Select **US021 – PAReq message with Currency Exponent tags, no data (VEReq)** from the list of test cases. The screen shows the VEReq that the PIT will send to the ACS. 3. If the ACS has enrolled the PIT's default PAN, click **Send VEReq**. 4. To proceed with a different PAN, edit the \<PAN\> field in the XML, replacing the PIT's PAN with the desired PAN; then click **Send VEReq**. The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives and the PAReq that will be sent to the ACS per the US021 – PAReq message with Currency Exponent tags, no data (PAReq) message that continues this test case. For this test case, the PIT must receive a VERes message with a response of "Y", indicating that the cardholder is enrolled. The PIT will present an error message if the VERes provides a response other than "Y". 5. Click **Send PAReq**. The PIT sends the PAReq to the ACS via the tester's browser. Authentication window briefly appears while the ACS processes the request and sends the 3-D Secure error response. ACS sends a 3-D Secure error message. PIT evaluates the error message and displays any errors found during the evaluation.
Allowable Results	The ACS must return an Error message with either ErrorCode=3 or ErrorCode=5.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US025–PAReq Message without Display Amount

Description	This test is to verify correct processing of a Payer Authentication Request message with no Display Amount tags and no data. The ACS must return a 3-D Secure error message.
Action	1. Go to the Run ACS Test page. 2. Select **US025 – PAReq message without Display Amount (VEReq)** from the list of test cases. The screen shows the VEReq that the PIT will send to the ACS. 3. If the ACS has enrolled the PIT's default PAN, click **Send VEReq**. 4. To proceed with a different PAN, edit the <PAN> field in the XML, replacing the PIT's PAN with the desired PAN; then click **Send VEReq**. The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives and the PAReq that will be sent to the ACS per the US025 – PAReq message without Display Amount (PAReq) message that continues this test case. For this test case, the PIT must receive a VERes message with a response of "Y", indicating that the cardholder is enrolled. The PIT will present an error message if the VERes provides a response other than "Y". 5. Click **Send PAReq**. The PIT sends the PAReq to the ACS via the tester's browser. Authentication window briefly appears while the ACS processes the request and sends the 3-D Secure error response. ACS sends a 3-D Secure error message. PIT evaluates the error message and displays any errors found during the evaluation.
Allowable Results	The ACS must return an Error message with either ErrorCode=3 or ErrorCode=5. As long as the actual error field is identified, this test will be considered a success (despite semantic differences). The ACS may also return a VERes message with cardholder enrollment value of "U" with an iReq=55.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US026–PAReq Message with Display Amount tags, no data

Description	This test is to verify correct processing of a Payer Authentication Request message that contains Display Amount tags but no data. The ACS must allow the authentication to proceed, returning a PARes message with Transaction Status of "Y".
Action	1. Go to the Run ACS Test page. 2. Select **US026 – PAReq message with Display Amount tags, no data (VEReq)** from the list of test cases. The screen shows the VEReq that the PIT will send to the ACS. 3. If the ACS has enrolled the PIT's default PAN, click **Send VEReq**. 4. To proceed with a different PAN, edit the <PAN> field in the XML, replacing the PIT's PAN with the desired PAN; then click **Send VEReq**. The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives and the PAReq that will be sent to the ACS per the US026 – PAReq message with Display Amount tags, no data (PAReq) message that continues this test case. For this test case, the PIT must receive a VERes message with a response of "Y", indicating that the cardholder is enrolled. The PIT will present an error message if the VERes provides a response other than "Y". 5. Click **Send PAReq**. The PIT sends the PAReq to the ACS via the tester's browser. The authentication form appears and ACS presents first prompt for password. ACS tester responds to the prompt with a valid password. **Successful authentication**: ACS returns a valid PARes message with a CAVV element, ECI value of "5", and Transaction Status set to "Y" to The PIT merchant. PIT evaluates the PARes message and displays the contents of the PARes and any errors found during the evaluation. ACS sends a PATransReq to The PIT AHS and also stores a copy of the message locally. The PIT AHS returns the PATransRes to the ACS.
Allowable Results	Not applicable.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US027–PAReq Message with Display Amount that exceeds maximum length

Description	This test is to verify correct processing of a Payer Authentication Request message that contains Display Amount data that exceeds the maximum allowable length of 20 bytes. The ACS must allow the authentication to proceed, returning a PARes message with Transaction Status of "Y".
Action	1. Go to the Run ACS Test page. 2. Select **US027 – PAReq message with Display Amount that exceeds maximum length (VEReq)** from the list of test cases. The screen shows the VEReq that the PIT will send to the ACS. 3. If the ACS has enrolled the PIT's default PAN, click **Send VEReq**. 4. To proceed with a different PAN, edit the <PAN> field in the XML, replacing the PIT's PAN with the desired PAN; then click **Send VEReq**. The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives and the PAReq that will be sent to the ACS per the US027 – PAReq message with Display Amount that exceeds maximum length (PAReq) message that continues this test case. For this test case, the PIT must receive a VERes message with a response of "Y", indicating that the cardholder is enrolled. The PIT will present an error message if the VERes provides a response other than "Y". 5. Click **Send PAReq**. The PIT sends the PAReq to the ACS via the tester's browser. The authentication form appears and ACS presents first prompt for password. ACS tester responds to the prompt with a valid password. **Successful authentication**: ACS returns a valid PARes message with a CAVV element, ECI value of "5", and Transaction Status set to "Y" to The PIT merchant. PIT evaluates the PARes message and displays the contents of the PARes and any errors found during the evaluation. ACS sends a PATransReq to The PIT AHS and also stores a copy of the message locally. The PIT AHS returns the PATransRes to the ACS.
Allowable Results	The ACS may also return an Error message with either ErrorCode=3 or ErrorCode=5 instead of a PARes.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US028– PAReq without Purchase Installment Data

Description	This test is to verify correct processing of a Payer Authentication Request message with no Purchase Installment Data tags and no data. The ACS must provide a PARes message with Transaction Status of "U" and Ireq code of '55' to the merchant.
Action	1. Go to the Run ACS Test page. 2. Select **US028 – PAReq message without Purchase Installment Data (VEReq)** from the list of test cases. The screen shows the VEReq that the PIT will send to the ACS. 3. If the ACS has enrolled the PIT's default PAN, click **Send VEReq**. 4. To proceed with a different PAN, edit the <PAN> field in the XML, replacing the PIT's PAN with the desired PAN; then click **Send VEReq**. The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives and the PAReq that will be sent to the ACS per the US028 – PAReq message without Purchase Installment Data (PAReq) message that continues this test case. For this test case, the PIT must receive a VERes message with a response of "Y", indicating that the cardholder is enrolled. The PIT will present an error message if the VERes provides a response other than "Y". 5. Click **Send PAReq**. The PIT sends the PAReq to the ACS via the tester's browser. Authentication window briefly appears while the ACS processes the request. ACS sends a PARes with Transaction Status of "U" and Ireq code of '55'. PIT evaluates the PARes message and displays the contents of the PARes and any errors found during the evaluation. ACS sends a PATransReq to The PIT AHS and also stores a copy of the message locally. The PIT AHS returns the PATransRes to the ACS.
Allowable Results	The ACS may also return an Error message with either ErrorCode=3 or ErrorCode=5 instead of a PARes.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US029–PAReq with Purchase Installment tags, no data

Description	This test is to verify correct processing of a Payer Authentication Request message that contains Purchase Installment Data tags but no data. The ACS must return a 3-D Secure error message.
Action	1. Go to the Run ACS Test page. 2. Select **US029 – PAReq message with Purchase Installment Data tags, no data (VEReq)** from the list of test cases. The screen shows the VEReq that the PIT will send to the ACS. 3. If the ACS has enrolled the PIT's default PAN, click **Send VEReq**. To proceed with a different PAN, edit the <PAN> field in the XML, replacing the PIT's PAN with the desired PAN; then click the "**Send VEReq**" button. The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives and the PAReq that will be sent to the ACS per the US029 – PAReq message with Purchase Installment Data tags, no data (PAReq) message that continues this test case. For this test case, the PIT must receive a VERes message with a response of "Y", indicating that the cardholder is enrolled. The PIT will present an error message if the VERes provides a response other than "Y". 4. Click **Send PAReq**. The PIT sends the PAReq to the ACS via the tester's browser. Authentication window briefly appears while the ACS processes the request and sends the 3-D Secure error response. ACS sends a 3-D Secure error message. PIT evaluates the error message and displays any errors found during the evaluation.
Allowable Results	The ACS must return an Error message with either ErrorCode=3 or ErrorCode=5. As long as the actual error field is identified, this test will be considered a success (despite semantic differences). The ACS may also return a PARes message with cardholder enrollment value of "U" with an iReq=55.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US030–PAReq Message with Purchase Installment that exceeds maximum length

Description	This test is to verify correct processing of a Payer Authentication Request message that contains Purchase Installment Data that exceeds the maximum allowable length of 4 bytes. The ACS must return a 3-D Secure error message.
Action	1. Go to the Run ACS Test page. 2. Select **US030 – PAReq message with Purchase Installment Data that exceeds maximum length (VEReq)** from the list of test cases. The screen shows the VEReq that the PIT will send to the ACS. 3. If the ACS has enrolled the PIT's default PAN, click **Send VEReq**. 4. To proceed with a different PAN, edit the <PAN> field in the XML, replacing the PIT's PAN with the desired PAN; then click **Send VEReq**. The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives and the PAReq that will be sent to the ACS per the US030 – PAReq message with Purchase Installment Data that exceeds maximum length (PAReq)" message that continues this test case. For this test case, the PIT must receive a VERes message with a response of "Y", indicating that the cardholder is enrolled. The PIT will present an error message if the VERes provides a response other than "Y". 5. Click **Send PAReq**. The PIT sends the PAReq to the ACS via the tester's browser. Authentication window briefly appears while the ACS processes the request and sends the 3-D Secure error response. ACS sends a 3-D Secure error message. PIT evaluates the error message and displays any errors found during the evaluation.
Allowable Results	The ACS must return an Error message with either ErrorCode=3 or ErrorCode=5. As long as the actual error field is identified, this test will be considered a success (despite semantic differences). The ACS may also return a PARes message with cardholder enrollment value of "U" with an iReq=55.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US031–PAReq Message without Merchant Country Code

Description	This test is to verify correct processing of a Payer Authentication Request message with no Merchant Country Code tags and no data. The ACS must return a 3-D Secure error message.
Action	1. Go to the Run ACS Test page. 2. Select **US031 – PAReq message without Merchant Country Code (VEReq)** from the list of test cases. The screen shows the VEReq that the PIT will send to the ACS. 3. If the ACS has enrolled the PIT's default PAN, click **Send VEReq**. 4. To proceed with a different PAN, edit the <PAN> field in the XML, replacing the PIT's PAN with the desired PAN; then click **Send VEReq**. The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives and the PAReq that will be sent to the ACS per the US031 – PAReq message without Merchant Country Code (PAReq) message that continues this test case. For this test case, the PIT must receive a VERes message with a response of "Y", indicating that the cardholder is enrolled. The PIT will present an error message if the VERes provides a response other than "Y". 5. Click **Send PAReq**. The PIT sends the PAReq to the ACS via the tester's browser. Authentication window briefly appears while the ACS processes the request and sends the 3-D Secure error response. ACS sends a 3-D Secure error message. PIT evaluates the error message and displays any errors found during the evaluation.
Allowable Results	The ACS must return an Error message with either ErrorCode=3 or ErrorCode=5. As long as the actual error field is identified, this test will be considered a success (despite semantic differences). The ACS may also return a PARes message with cardholder enrollment value of "U" with an iReq=54.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US032–PAReq Message with Merchant Country Code tags, no data

Description	This test is to verify correct processing of a Payer Authentication Request message that contains Merchant Country Code tags but no data. The ACS must return a 3-D Secure error message.
Action	1. Go to the Run ACS Test page. 2. Select **US032 – PAReq message with Merchant Country Code tags, no data (VEReq)** from the list of test cases. The screen shows the VEReq that the PIT will send to the ACS. 3. If the ACS has enrolled the PIT's default PAN, click **Send VEReq**. 4. To proceed with a different PAN, edit the <PAN> field in the XML, replacing the PIT's PAN with the desired PAN; then click **Send VEReq**. The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives and the PAReq that will be sent to the ACS per the US032 – PAReq message with Merchant Country Code tags, no data (PAReq) message that continues this test case. For this test case, the PIT must receive a VERes message with a response of "Y", indicating that the cardholder is enrolled. The PIT will present an error message if the VERes provides a response other than "Y". 5. Click **Send PAReq**. The PIT sends the PAReq to the ACS via the tester's browser. Authentication window briefly appears while the ACS processes the request and sends the 3-D Secure error response. ACS sends a 3-D Secure error message. PIT evaluates the error message and displays any errors found during the evaluation.
Allowable Results	The ACS must return an Error message with either ErrorCode=3 or ErrorCode=5. As long as the actual error field is identified, this test will be considered a success (despite semantic differences). The ACS may also return a PARes message with cardholder enrollment value of "U" with an iReq=54.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US033–PAReq Message with Merchant Country Code that exceeds maximum length

Description	This test is to verify correct processing of a Payer Authentication Request message that contains Merchant Country Code data that exceeds the maximum allowable length of 3 bytes. The ACS must return a 3-D Secure error message.
Action	1. Go to the Run ACS Test page. 2. Select **US033 – PAReq message with Merchant Country Code that exceeds maximum length (VEReq)** from the list of test cases. The screen shows the VEReq that the PIT will send to the ACS. 3. If the ACS has enrolled the PIT's default PAN, click **Send VEReq**. To proceed with a different PAN, edit the <PAN> field in the XML, replacing the PIT's PAN with the desired PAN; then click **Send VEReq**. The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives and the PAReq that will be sent to the ACS per the US033 – PAReq message with Merchant Country Code that exceeds maximum length (PAReq)" message that continues this test case. For this test case, the PIT must receive a VERes message with a response of "Y", indicating that the cardholder is enrolled. The PIT will present an error message if the VERes provides a response other than "Y". 4. Click **Send PAReq**. The PIT sends the PAReq to the ACS via the tester's browser. Authentication window briefly appears while the ACS processes the request and sends the 3-D Secure error response. ACS sends a 3-D Secure error message. PIT evaluates the error message and displays any errors found during the evaluation.
Allowable Results	The ACS must return an Error message with either ErrorCode=3 or ErrorCode=5. As long as the actual error field is identified, this test will be considered a success (despite semantic differences). The ACS may also return a PARes message with cardholder enrollment value of "U" with an iReq=54.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US037–PAReq message without Merchant ID

Description	This test is to verify correct processing of a Payer Authentication Request message with no Merchant ID tags and no data. The ACS must return a 3-D Secure error message.
Action	1. Go to the Run ACS Test page. 2. Select **US037 – PAReq message without Merchant ID (VEReq)** from the list of test cases. The screen shows the VEReq that the PIT will send to the ACS. If the ACS has enrolled the PIT's default PAN, click **Send VEReq**. 3. To proceed with a different PAN, edit the \<PAN\> field in the XML, replacing the PIT's PAN with the desired PAN; then click **Send VEReq**. The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives and the PAReq that will be sent to the ACS per the US037 – PAReq message without Merchant ID (PAReq) message that continues this test case. For this test case, the PIT must receive a VERes message with a response of "Y", indicating that the cardholder is enrolled. The PIT will present an error message if the VERes provides a response other than "Y". 4. Click **Send PAReq**. The PIT sends the PAReq to the ACS via the tester's browser. Authentication window briefly appears while the ACS processes the request and sends the 3-D Secure error response. ACS sends a 3-D Secure error message. PIT evaluates the error message and displays any errors found during the evaluation.
Allowable Results	The ACS must return an Error message with either ErrorCode=3 or ErrorCode=5. As long as the actual error field is identified, this test will be considered a success (despite semantic differences). The ACS may also return a PARes message with cardholder enrollment value of "U" with an iReq=55.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US038–PAReq Message with Merchant ID tags, no data

Description	This test is to verify correct processing of a Payer Authentication Request message that contains Merchant ID tags but no data. The ACS must provide a PARes message with Transaction Status of "U" and Ireq code of '55' to the merchant.
Action	Action: Go to the Run ACS Test page. Select US038 – PAReq message with Merchant ID tags, no data (VEReq) from the list of test cases. The screen shows the VEReq that the PIT will send to the ACS. If the ACS has enrolled The PIT's default PAN, click **Send VEReq**. To proceed with a different PAN, edit the <PAN> field in the XML, replacing the PIT's PAN with the desired PAN; then click **Send VEReq**. The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives and the PAReq that will be sent to the ACS per the US038 – PAReq message with Merchant ID tags, no data (PAReq) message that continues this test case. For this test case, the PIT must receive a VERes message with a response of "Y", indicating that the cardholder is enrolled. The PIT will present an error message if the VERes provides a response other than "Y". Click **Send PAReq**. The PIT sends the PAReq to the ACS via the tester's browser. Authentication window briefly appears while the ACS processes the request and sends the response. ACS sends a PARes with Transaction Status of "U" and Ireq code of '55'. PIT evaluates the PARes message and displays the contents of the PARes and any errors found during the evaluation. ACS sends a PATransReq to The PIT AHS and also stores a copy of the message locally. The PIT AHS returns the PATransRes to the ACS.
Allowable Results	The ACS may also return an Error message with either ErrorCode=3 or ErrorCode=5 instead of a PARes.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US039–PAReq Message with Merchant ID that exceeds maximum length

Description	This test is to verify correct processing of a Payer Authentication Request message that contains Merchant ID data that exceeds the maximum allowable length of 24 bytes. The ACS must provide a PARes message with Transaction Status of "U" and Ireq code of '55' to the merchant.
Action	1. Go to the Run ACS Test page. 2. Select **US039 – PAReq message with Merchant ID that exceeds the maximum length (VEReq)** from the list of test cases. The screen shows the VEReq that the PIT will send to the ACS. 3. If the ACS has enrolled the PIT's default PAN, click **Send VEReq**. 4. To proceed with a different PAN, edit the <PAN> field in the XML, replacing the PIT's PAN with the desired PAN; then click **Send VEReq** button. The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives and the PAReq that will be sent to the ACS per the US039 – PAReq message with Merchant ID that exceeds the maximum length (PAReq) message that continues this test case. For this test case, the PIT must receive a VERes message with a response of "Y", indicating that the cardholder is enrolled. The PIT will present an error message if the VERes provides a response other than "Y". 5. Click **Send PAReq**. The PIT sends the PAReq to the ACS via the tester's browser. Authentication window briefly appears while the ACS processes the request and sends the response. ACS sends a PARes with Transaction Status of "U" and Ireq code of '55'. PIT evaluates the PARes message and displays the contents of the PARes and any errors found during the evaluation. ACS sends a PATransReq to The PIT AHS and also stores a copy of the message locally. The PIT AHS returns the PATransRes to the ACS.
Allowable Results	The ACS may also return an Error message with either ErrorCode=3 or ErrorCode=5 instead of a PARes.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US040–PAReq Message without Merchant Name

Description	This test is to verify correct processing of a Payer Authentication Request message with no Merchant Name tags and no data. The ACS must return a 3-D Secure error message.
Action	1. Go to the Run ACS Test page. 2. Select **US040 – PAReq message without Merchant Name (VEReq)** from the list of test cases. The screen will show the VEReq that the PIT will send to the ACS. 3. If the ACS has enrolled the PIT's default PAN, click **Send VEReq**. 4. To proceed with a different PAN, edit the <PAN> field in the XML, replacing the PIT's PAN with the desired PAN; then click **Send VEReq**. The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives and the PAReq that will be sent to the ACS per the US040 – PAReq message without Merchant Name (PAReq) message that continues this test case. For this test case, the PIT must receive a VERes message with a response of "Y", indicating that the cardholder is enrolled. The PIT will present an error message if the VERes provides a response other than "Y". 5. Click **Send PAReq**. The PIT sends the PAReq to the ACS via the tester's browser. Authentication window briefly appears while the ACS processes the request and sends the 3-D Secure error response. ACS sends a 3-D Secure error message. PIT evaluates the error message and displays any errors found during the evaluation.
Allowable Results	The ACS must return an Error message with either ErrorCode=3 or ErrorCode=5. As long as the actual error field is identified, this test will be considered a success (despite semantic differences). The ACS may also return a PARes message with cardholder enrollment value of "U" with an iReq=55.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US041–PAReq Message with Merchant Name tags, no data

Description	This test is to verify correct processing of a Payer Authentication Request message that contains Merchant Name tags but no data. The ACS must return a 3-D Secure error message.
Action	1. Go to the Run ACS Test page. 2. Select **US041 – PAReq message with Merchant Name tags, no data (VEReq)** from the list of test cases. The screen shows the VEReq that the PIT will send to the ACS. 3. If the ACS has enrolled the PIT's default PAN, click **Send VEReq**. 4. To proceed with a different PAN, edit the <PAN> field in the XML, replacing the PIT's PAN with the desired PAN; then click **Send VEReq**. The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives and the PAReq that will be sent to the ACS per the US041 – PAReq message with Merchant Name tags, no data (PAReq) message that continues this test case. For this test case, the PIT must receive a VERes message with a response of "Y", indicating that the cardholder is enrolled. The PIT will present an error message if the VERes provides a response other than "Y". 5. Click **Send PAReq**. The PIT sends the PAReq to the ACS via the tester's browser. Authentication window briefly appears while the ACS processes the request and sends the 3-D Secure error response. ACS sends a 3-D Secure error message. PIT evaluates the error message and displays any errors found during the evaluation.
Allowable Results	The ACS must return an Error message with either ErrorCode=3 or ErrorCode=5. As long as the actual error field is identified, this test will be considered a success (despite semantic differences). The ACS may also return a PARes message with cardholder enrollment value of "U" with an iReq=55.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US042–PAReq Message with Merchant Name that exceeds maximum length

Description	This test is to verify correct processing of a Payer Authentication Request message that contains Merchant Name data that exceeds the maximum allowable length of 25 bytes. The ACS must return a 3-D Secure error message.
Action	1. Go to the Run ACS Test page. 2. Select **US042 – PAReq message with Merchant Name that exceeds maximum length (VEReq)** from the list of test cases. The screen shows the VEReq that the PIT will send to the ACS. 3. If the ACS has enrolled the PIT's default PAN, click **Send VEReq**. 4. To proceed with a different PAN, edit the <PAN> field in the XML, replacing the PIT's PAN with the desired PAN; then click **Send VEReq** button. The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives and the PAReq that will be sent to the ACS per the US042 – PAReq message with Merchant Name that exceeds maximum length (PAReq) message that continues this test case. For this test case, the PIT must receive a VERes message with a response of "Y", indicating that the cardholder is enrolled. The PIT will present an error message if the VERes provides a response other than "Y". 5. Click **Send PAReq**. The PIT sends the PAReq to the ACS via the tester's browser. Authentication window briefly appears while the ACS processes the request and sends the 3-D Secure error response. ACS sends a 3-D Secure error message. PIT evaluates the error message and displays any errors found during the evaluation.
Allowable Results	The ACS must return an Error message with either ErrorCode=3 or ErrorCode=5. As long as the actual error field is identified, this test will be considered a success (despite semantic differences). The ACS may also return a PARes message with cardholder enrollment value of "U" with an iReq=55.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US043–PAReq Message without Merchant URL

Description	This test is to verify correct processing of a Payer Authentication Request message with no Merchant URL tags and no data. The ACS must allow the authentication to proceed, returning a PARes message with Transaction Status of "Y".
Action	1. Go to the Run ACS Test page.
	2. Select **US043 – PAReq message without Merchant URL (VEReq)** from the list of test cases.
	The screen will show the VEReq that the PIT will send to the ACS.
	3. If the ACS has enrolled the PIT's default PAN, click **Send VEReq**.
	4. To proceed with a different PAN, edit the <PAN> field in the XML, replacing the PIT's PAN with the desired PAN; then click **Send VEReq**.
	The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives and the PAReq that will be sent to the ACS per the US043 – PAReq message without Merchant URL (PAReq) message that continues this test case.
	For this test case, the PIT must receive a VERes message with a response of "Y", indicating that the cardholder is enrolled. The PIT will present an error message if the VERes provides a response other than "Y".
	5. Click **Send PAReq**.
	The PIT sends the PAReq to the ACS via the tester's browser. The authentication form appears and ACS presents first prompt for password. ACS tester responds to the prompt with a valid password.
	Successful authentication: ACS returns a valid PARes message with a CAVV element, ECI value of "5", and Transaction Status set to "Y" to The PIT merchant. PIT evaluates the PARes message and displays the contents of the PARes and any errors found during the evaluation.
	ACS sends a PATransReq to The PIT AHS and also stores a copy of the message locally. The PIT AHS returns the PATransRes to the ACS.
Allowable Results	Not applicable.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US044–PAReq Message with Merchant URL tags, no data

Description	This test is to verify correct processing of a Payer Authentication Request message that contains Merchant URL tags but no data. The ACS must allow the authentication to proceed, returning a PARes message with Transaction Status of "Y".
Action	1. Go to the Run ACS Test page. 2. Select **US044 – PAReq message with Merchant URL tags, no data (VEReq)** from the list of test cases. The screen shows the VEReq that the PIT will send to the ACS. 3. If the ACS has enrolled the PIT's default PAN, click **Send VEReq**. 4. To proceed with a different PAN, edit the <PAN> field in the XML, replacing the PIT's PAN with the desired PAN; then click **Send VEReq**. The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives and the PAReq that will be sent to the ACS per the US044 – PAReq message with Merchant URL tags, no data (PAReq) message that continues this test case. For this test case, the PIT must receive a VERes message with a response of "Y", indicating that the cardholder is enrolled. The PIT will present an error message if the VERes provides a response other than "Y". 5. Click **Send PAReq**. The PIT sends the PAReq to the ACS via the tester's browser. The authentication form appears and ACS presents first prompt for password. ACS tester responds to the prompt with a valid password. **Successful authentication**: ACS returns a valid PARes message with a CAVV element, ECI value of "5", and Transaction Status set to "Y" to The PIT merchant. PIT evaluates the PARes message and displays the contents of the PARes and any errors found during the evaluation. ACS sends a PATransReq to The PIT AHS and also stores a copy of the message locally. The PIT AHS returns the PATransRes to the ACS.
Allowable Results	Not applicable.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US045–PAReq Message with Merchant URL that exceeds maximum length

Description	This test is to verify correct processing of a Payer Authentication Request message that contains Merchant URL that exceeds maximum allowable length of 1024 bytes. The ACS must allow the authentication to proceed, returning a PARes message with Transaction Status of "Y".
Action	1. Go to the Run ACS Test page. 2. Select **US045 – PAReq message with Merchant URL that exceeds maximum length (VEReq)** from the list of test cases. The screen shows the VEReq that the PIT will send to the ACS. 3. If the ACS has enrolled the PIT's default PAN, click **Send VEReq**. 4. To proceed with a different PAN, edit the <PAN> field in the XML, replacing the PIT's PAN with the desired PAN; then click **Send VEReq** button. The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives and the PAReq that will be sent to the ACS per the US045 – PAReq message with Merchant URL that exceeds maximum length (PAReq) message that continues this test case. For this test case, the PIT must receive a VERes message with a response of "Y", indicating that the cardholder is enrolled. The PIT will present an error message if the VERes provides a response other than "Y". 5. Click **Send PAReq**. The PIT sends the PAReq to the ACS via the tester's browser. 6. The authentication form appears and ACS presents first prompt for password. ACS tester responds to the prompt with a valid password. **Successful authentication**: ACS returns a valid PARes message with a CAVV element, ECI value of "5", and Transaction Status set to "Y" to The PIT merchant. PIT evaluates the PARes message and displays the contents of the PARes and any errors found during the evaluation. ACS sends a PATransReq to The PIT AHS and also stores a copy of the message locally. The PIT AHS returns the PATransRes to the ACS.
Allowable Results	Not applicable.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US049–PAReq Message without Message Version Number

Description	This test is to verify correct processing of a Payer Authentication Request message with no Message Version Number tags and no data. The ACS must return a 3-D Secure error message.
Action	1. Go to the Run ACS Test page. 2. Select **US049 – PAReq message without Message Version Number (VEReq)** from the list of test cases. The screen shows the VEReq that the PIT will send to the ACS. 3. If the ACS has enrolled the PIT's default PAN, click **Send VEReq**. 4. To proceed with a different PAN, edit the <PAN> field in the XML, replacing the PIT's PAN with the desired PAN; then click **Send VEReq**. The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives and the PAReq that will be sent to the ACS per the US049 – PAReq message without Message Version Number (PAReq) message that continues this test case. For this test case, the PIT must receive a VERes message with a response of "Y", indicating that the cardholder is enrolled. The PIT will present an error message if the VERes provides a response other than "Y". 5. Click **Send PAReq**. The PIT sends the PAReq to the ACS via the tester's browser. Authentication window briefly appears while the ACS processes the request and sends the 3-D Secure error response. ACS sends a 3-D Secure error message. PIT evaluates the error message and displays any errors found during the evaluation.
Allowable Results	The ACS must return an Error message with either ErrorCode=3 or ErrorCode=5. As long as the actual error field is identified, this test will be considered a success (despite semantic differences). The ACS may also return a PARes message with cardholder enrollment value of "U" with an iReq=55.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US050–PAReq Message with Message Version Number tags, no data

Description	This test is to verify correct processing of a Payer Authentication Request message that contains Message Version Number tags but no data. The ACS must return a 3-D Secure error message.
Action	Go to the Run ACS Test page.
	Select **US050 – PAReq message with Message Version Number tags, no data (VEReq)** from the list of test cases.
	The screen shows the VEReq that the PIT will send to the ACS. If the ACS has enrolled the PIT's default PAN, click **Send VEReq**. To proceed with a different PAN, edit the
	<PAN> field in the XML, replacing the PIT's PAN with the desired PAN; then click the "**Send VEReq**"
	button.
	The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review
	VERes/PAReq" page, displays the VERes it receives and the PAReq that will be sent to the ACS per
	the US050 – PAReq message with Message Version Number tags, no data (PAReq) message that
	continues this test case. For this test case, the PIT must receive a VERes message with a response of
	"Y", indicating that the cardholder is enrolled. The PIT will present an error message if the VERes
	provides a response other than "Y".
	Click **Send PAReq**.
	The PIT sends the PAReq to the ACS via the tester's browser. Authentication window briefly appears
	while the ACS processes the request and sends the 3-D Secure error response.
	ACS sends a 3-D Secure error message. PIT evaluates the error message and displays any errors found
	during the evaluation.
Allowable Results	The ACS must return an Error message with either ErrorCode=3 or ErrorCode=5. As long as the actual error field is identified, this test will be considered a success (despite semantic differences). The ACS may also return a PARes message with cardholder enrollment value of "U" with an iReq=55.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US051–PAReq Message with Message Version Number that exceeds maximum length

Description	This test is to verify correct processing of a Payer Authentication Request message that contains Message Version Number data that exceeds the maximum allowable length of 16 bytes. The ACS must return a 3-D Secure error message.
Action	Go to the Run ACS Test page. Select US051 – PAReq message with Message Version Number that exceeds maximum length (VEReq) from the list of test cases. The screen shows the VEReq that the PIT will send to the ACS. If the ACS has enrolled the PIT's default PAN, click **Send VEReq**. To proceed with a different PAN, edit the <PAN> field in the XML, replacing the PIT's PAN with the desired PAN; then click **Send VEReq**. The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives and the PAReq that will be sent to the ACS per the US051 – PAReq message with Message Version Number that exceeds maximum length (PAReq)" message that continues this test case. For this test case, the PIT must receive a VERes message with a response of "Y", indicating that the cardholder is enrolled. The PIT will present an error message if the VERes provides a response other than "Y". Click **Send PAReq**. The PIT sends the PAReq to the ACS via the tester's browser. Authentication window briefly appears while the ACS processes the request and sends the 3-D Secure error response. ACS sends a 3-D Secure error message. PIT evaluates the error message and displays any errors found during the evaluation.
Allowable Results	The ACS must return an Error message with either ErrorCode=3 or ErrorCode=5. As long as the actual error field is identified, this test will be considered a success (despite semantic differences). The ACS may also return a PARes message with cardholder enrollment value of "U" with an iReq=55.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US052–PAReq Message without Order Description

Description	This test is to verify correct processing of a Payer Authentication Request message with no Order Description tags and no data. The ACS must allow the authentication to proceed, returning a Payer Authentication Response with Transaction Status value of 'Y'.
Action	Action:
	Go to the Run ACS Test page.
	Select US052 – PAReq message without Order Description (VEReq) from the list of test cases. The
	screen will show the VEReq that the PIT will send to the ACS. If the ACS has enrolled The PIT's default
	PAN, click **Send VEReq**. To proceed with a different PAN, edit the <PAN> field in the XML,
	replacing the PIT's PAN with the desired PAN; then click **Send VEReq**.
	The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review
	VERes/PAReq" page, displays the VERes it receives and the PAReq that will be sent to the ACS per
	the US052 – PAReq message without Order Description (PAReq) message that continues this test
	case. For this test case, the PIT must receive a VERes message with a response of "Y", indicating that
	the cardholder is enrolled. The PIT will present an error message if the VERes provides a response
	other than "Y".
	Click **Send PAReq**.
	The PIT sends the PAReq to the ACS via the tester's browser.
	6. The authentication form appears and ACS presents first prompt for password. ACS tester responds to the
	prompt with a valid password.
	Successful authentication: ACS returns a valid PARes message with a CAVV element, ECI value of "5",
	and Transaction Status set to "Y" to The PIT merchant. PIT evaluates the PARes message and displays
	the contents of the PARes and any errors found during the evaluation.
	ACS sends a PATransReq to The PIT AHS and also stores a copy of the message locally.
	The PIT AHS returns the PATransRes to the ACS.
Allowable Results	Not applicable.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US053–PAReq Message with Order Description tags, no data

Description	This test is to verify correct processing of a Payer Authentication Request message that contains Order Description tags but no data. The ACS must allow the authentication to proceed, returning a Payer Authentication Response with Transaction Status value of 'Y'.
Action	Action:
	Go to the Run ACS Test page.
	Select US053 – PAReq message with Order Description tags, no data (VEReq) from the list of test
	cases. The screen shows the VEReq that the PIT will send to the ACS. If the ACS has enrolled the
	PIT's default PAN, click **Send VEReq**. To proceed with a different PAN, edit the <PAN>
	field in the XML, replacing the PIT's PAN with the desired PAN; then click **Send VEReq**.
	The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review
	VERes/PAReq" page, displays the VERes it receives and the PAReq that will be sent to the ACS per
	the US053 – PAReq message with Order Description tags, no data (PAReq) message that continues
	this test case. For this test case, the PIT must receive a VERes message with a response of "Y",
	indicating that the cardholder is enrolled. The PIT will present an error message if the VERes provides
	a response other than "Y".
	Click **Send PAReq**.
	The PIT sends the PAReq to the ACS via the tester's browser.
	6. The authentication form appears and ACS presents first prompt for password. ACS tester responds to the
	prompt with a valid password.
	Successful authentication: ACS returns a valid PARes message with a CAVV element, ECI value of "5",
	and Transaction Status set to "Y" to The PIT merchant. PIT evaluates the PARes message and displays
	the contents of the PARes and any errors found during the evaluation.
	ACS sends a PATransReq to The PIT AHS and also stores a copy of the message locally.
	The PIT AHS returns the PATransRes to the ACS.
Allowable Results	Not applicable.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US054–PAReq Message with Order Description that exceeds maximum length

Description	This test is to verify correct processing of a Payer Authentication Request message that contains Order Description data that exceeds the maximum allowable length of 125 bytes. The ACS must return a 3-D Secure error message.
Action	1. Go to the Run ACS Test page. 2. Select **US054 – PAReq message with Order Description that exceeds maximum length (VEReq)** from the list of test cases. The screen shows the VEReq that the PIT will send to the ACS. 3. If the ACS has enrolled the PIT's default PAN, click **Send VEReq**. 4. To proceed with a different PAN, edit the <PAN> field in the XML, replacing the PIT's PAN with the desired PAN; then click **Send VEReq**. The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives and the PAReq that will be sent to the ACS per the US054 – PAReq message with Order Description that exceeds maximum length (PAReq)" message that continues this test case. For this test case, the PIT must receive a VERes message with a response of "Y", indicating that the cardholder is enrolled. The PIT will present an error message if the VERes provides a response other than "Y". 5. Click **Send PAReq**. The PIT sends the PAReq to the ACS via the tester's browser. Authentication window briefly appears while the ACS processes the request and sends the 3-D Secure error response. ACS sends a 3-D Secure error message. PIT evaluates the error message and displays any errors found during the evaluation.
Allowable Results	The ACS must return an Error message with either ErrorCode=3 or ErrorCode=5. As long as the actual error field is identified, this test will be considered a success (despite semantic differences). The ACS may also return a PARes message with cardholder enrollment value of "U" with an iReq=55.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US057–PAReq Message without Purchase Amount

Description	This test is to verify correct processing of a Payer Authentication Request message with no Purchase Amount tags and no data. The ACS must return a 3-D Secure error message.
Action	1. Go to the Run ACS Test page. 2. Select **US057 – PAReq message without Purchase Amount (VEReq)** from the list of test cases. The screen will show the VEReq that the PIT will send to the ACS. 3. If the ACS has enrolled the PIT's default PAN, click **Send VEReq**. 4. To proceed with a different PAN, edit the <PAN> field in the XML, replacing the PIT's PAN with the desired PAN; then click **Send VEReq**. The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives and the PAReq that will be sent to the ACS per the US057 – PAReq message without Purchase Amount (PAReq) message that continues this test case. For this test case, the PIT must receive a VERes message with a response of "Y", indicating that the cardholder is enrolled. The PIT will present an error message if the VERes provides a response other than "Y". 5. Click **Send PAReq**. The PIT sends the PAReq to the ACS via the tester's browser. Authentication window briefly appears while the ACS processes the request and sends the 3-D Secure error response. ACS sends a 3-D Secure error message. PIT evaluates the error message and displays any errors found during the evaluation.
Allowable Results	The ACS must return an Error message with either ErrorCode=3 or ErrorCode=5. As long as the actual error field is identified, this test will be considered a success (despite semantic differences).
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US058–PAReq Message with Purchase Amount tags, no data

Description	This test is to verify correct processing of a Payer Authentication Request message that contains Purchase Amount tags but no data. The ACS must return a 3-D Secure error message.
Action	1. Go to the Run ACS Test page. 2. Select **US058 – PAReq message with Purchase Amount tags, no data (VEReq)** from the list of test cases. The screen shows the VEReq that the PIT will send to the ACS. 3. If the ACS has enrolled the PIT's default PAN, click **Send VEReq**. 4. To proceed with a different PAN, edit the \<PAN\> field in the XML, replacing the PIT's PAN with the desired PAN; then click **Send VEReq**. The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives and the PAReq that will be sent to the ACS per the US058 – PAReq message with Purchase Amount tags, no data (PAReq) message that continues this test case. For this test case, the PIT must receive a VERes message with a response of "Y", indicating that the cardholder is enrolled. The PIT will present an error message if the VERes provides a response other than "Y". 5. Click **Send PAReq**. The PIT sends the PAReq to the ACS via the tester's browser. Authentication window briefly appears while the ACS processes the request and sends the 3-D Secure error response. ACS sends a 3-D Secure error message. PIT evaluates the error message and displays any errors found during the evaluation.
Allowable Results	The ACS must return an Error message with either ErrorCode=3 or ErrorCode=5. As long as the actual error field is identified, this test will be considered a success (despite semantic differences).
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US059–PAReq Message with Purchase Amount that exceeds maximum length

Description	This test is to verify correct processing of a Payer Authentication Request message that contains Purchase Amount data that exceeds maximum allowable length of 12 bytes. The ACS must return a 3-D Secure error message.
Action	1. Go to the Run ACS Test page. 2. Select **US059 – PAReq message with Purchase Amount that exceeds maximum length (VEReq)** from the list of test cases. The screen shows the VEReq that the PIT will send to the ACS. 3. If the ACS has enrolled the PIT's default PAN, click **Send VEReq**. 4. To proceed with a different PAN, edit the <PAN> field in the XML, replacing the PIT's PAN with the desired PAN; then click Send VEReq. The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives and the PAReq that will be sent to the ACS per the US059 – PAReq message with Purchase Amount that exceeds maximum length (PAReq)" message that continues this test case. For this test case, the PIT must receive a VERes message with a response of "Y", indicating that the cardholder is enrolled. The PIT will present an error message if the VERes provides a response other than "Y". 5. Click **Send PAReq**. The PIT sends the PAReq to the ACS via the tester's browser. Authentication window briefly appears while the ACS processes the request and sends the 3-D Secure error response. ACS sends a 3-D Secure error message. PIT evaluates the error message and displays any errors found during the evaluation.
Allowable Results	The ACS must return an Error message with either ErrorCode=3 or ErrorCode=5. As long as the actual error field is identified, this test will be considered a success (despite semantic differences).
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US060–PAReq Message with Purchase Amount with nonnumeric data

Description	This test is to verify correct processing of a Payer Authentication Request message that contains Purchase Amount with non-numeric data. The ACS must return a 3-D Secure error message.
Action	1. Go to the Run ACS Test page. 2. Select **US060 – PAReq message with Purchase Amount with nonnumeric data (VEReq)** from the list of test cases. The screen shows the VEReq that the PIT will send to the ACS. 3. If the ACS has enrolled the PIT's default PAN, click **Send VEReq**. 4. To proceed with a different PAN, edit the <PAN> field in the XML, replacing the PIT's PAN with the desired PAN; then click **Send VEReq**. The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives and the PAReq that will be sent to the ACS per the US060 – PAReq message with Purchase Amount with nonnumeric data (PAReq) message that continues this test case. For this test case, the PIT must receive a VERes message with a response of "Y", indicating that the cardholder is enrolled. The PIT will present an error message if the VERes provides a response other than "Y". 5. Click **Send PAReq**. The PIT sends the PAReq to the ACS via the tester's browser. Authentication window briefly appears while the ACS processes the request and sends the 3-D Secure error response. ACS sends a 3-D Secure error message. PIT evaluates the error message and displays any errors found during the evaluation.
Allowable Results	The ACS must return an Error message with either ErrorCode=3 or ErrorCode=5. As long as the actual error field is identified, this test will be considered a success (despite semantic differences).
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US061–PAReq Message without Purchase Currency

Description	This test is to verify correct processing of a Payer Authentication Request message with no Purchase Currency tags and no data. The ACS must return a 3-D Secure error message.
Action	1. Go to the Run ACS Test page. 2. Select **US061 – PAReq message without Purchase Currency (VEReq)** from the list of test cases. The screen will show the VEReq that the PIT will send to the ACS. 3. If the ACS has enrolled the PIT's default PAN, click **Send VEReq**. 4. To proceed with a different PAN, edit the <PAN> field in the XML, replacing the PIT's PAN with the desired PAN; then click **Send VEReq**. The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives and the PAReq that will be sent to the ACS per the US061 – PAReq message without Purchase Currency (PAReq) message that continues this test case. For this test case, the PIT must receive a VERes message with a response of "Y", indicating that the cardholder is enrolled. The PIT will present an error message if the VERes provides a response other than "Y". 5. Click **Send PAReq**. The PIT sends the PAReq to the ACS via the tester's browser. Authentication window briefly appears while the ACS processes the request and sends the 3-D Secure error response. ACS sends a 3-D Secure error message. PIT evaluates the error message and displays any errors found during the evaluation.
Allowable Results	The ACS must return an Error message with either ErrorCode=3 or ErrorCode=5. As long as the actual error field is identified, this test will be considered a success (despite semantic differences). The ACS may also return a PARes message with cardholder enrollment value of "U" with an iReq=54.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US062–PAReq Message with Purchase Currency tags, no data

Description	This test is to verify correct processing of a Payer Authentication Request message that contains Purchase Currency tags but no data. The ACS must return a 3-D Secure error message.
Action	1. Go to the Run ACS Test page.
	2. Select **US062 – PAReq message with Purchase Currency tags, no data (VEReq)** from the list of test cases.
	The screen shows the VEReq that the PIT will send to the ACS.
	3. If the ACS has enrolled the PIT's default PAN, click **Send VEReq**.
	4. To proceed with a different PAN, edit the <PAN> field in the XML, replacing the PIT's PAN with the desired PAN; then click **Send VEReq**.
	The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives and the PAReq that will be sent to the ACS per the US062 – PAReq message with Purchase Currency tags, no data (PAReq) message that continues this test case.
	For this test case, the PIT must receive a VERes message with a response of "Y", indicating that the cardholder is enrolled. The PIT will present an error message if the VERes provides a response other than "Y".
	5. Click **Send PAReq**.
	The PIT sends the PAReq to the ACS via the tester's browser. Authentication window briefly appears while the ACS processes the request and sends the 3-D Secure error response.
	ACS sends a 3-D Secure error message. PIT evaluates the error message and displays any errors found during the evaluation.
Allowable Results	The ACS must return an Error message with either ErrorCode=3 or ErrorCode=5. As long as the actual error field is identified, this test will be considered a success (despite semantic differences). The ACS may also return a PARes message with cardholder enrollment value of "U" with an iReq=54.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US063–PAReq Message with Purchase Currency that exceeds maximum length

Description	This test is to verify correct processing of a Payer Authentication Request message that contains Purchase Currency data that exceeds maximum allowable length of 12 bytes. The ACS must return a 3-D Secure error message.
Action	1. Go to the Run ACS Test page. 2. Select **US063 – PAReq message with Purchase Currency that exceeds maximum length (VEReq)** from the list of test cases. The screen shows the VEReq that the PIT will send to the ACS. 3. If the ACS has enrolled the PIT's default PAN, click **Send VEReq**. To proceed with a different PAN, edit the <PAN> field in the XML, replacing the PIT's PAN with the desired PAN; then click **Send VEReq**. The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives and the PAReq that will be sent to the ACS per the US063 – PAReq message with Purchase Currency that exceeds maximum length (PAReq)" message that continues this test case. For this test case, the PIT must receive a VERes message with a response of "Y", indicating that the cardholder is enrolled. The PIT will present an error message if the VERes provides a response other than "Y". 4. Click **Send PAReq**. The PIT sends the PAReq to the ACS via the tester's browser. Authentication window briefly appears while the ACS processes the request and sends the 3-D Secure error response. ACS sends a 3-D Secure error message. PIT evaluates the error message and displays any errors found during the evaluation.
Allowable Results	The ACS must return an Error message with either ErrorCode=3 or ErrorCode=5. As long as the actual error field is identified, this test will be considered a success (despite semantic differences). The ACS may also return a PARes message with cardholder enrollment value of "U" with an iReq=54.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US064–PAReq Message with Purchase Currency with non-ISO data

Description	This test is to verify correct processing of a Payer Authentication Request message that contains Purchase Currency with non-ISO data. The ACS must provide a PARes message with Transaction Status of "U" and Ireq code of '54' to the merchant.
Action	1. Go to the Run ACS Test page. 2. Select **US064 – PAReq message with Purchase Currency with non-ISO data (VEReq)** from the list of test cases. The screen shows the VEReq that the PIT will send to the ACS. 3. If the ACS has enrolled the PIT's default PAN, click **Send VEReq**. 4. To proceed with a different PAN, edit the <PAN> field in the XML, replacing the PIT's PAN with the desired PAN; then click **Send VEReq**. The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives and the PAReq that will be sent to the ACS per the US064 – PAReq message with Purchase Currency with non-ISO data (PAReq) message that continues this test case. For this test case, the PIT must receive a VERes message with a response of "Y", indicating that the cardholder is enrolled. The PIT will present an error message if the VERes provides a response other than "Y". 5. Click **Send PAReq**. ACS sends a PARes with Transaction Status of "U" and Ireq code of '55'. PIT evaluates the PARes message and displays the contents of the PARes and any errors found during the evaluation. ACS sends a PATransReq to The PIT AHS and also stores a copy of the message locally. The PIT AHS returns the PATransRes to the ACS.
Allowable Results	The ACS may also return an Error message with either ErrorCode=3 or ErrorCode=5 instead of a PARes.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US065–PAReq Message without Purchase Date and Time

Description	This test is to verify correct processing of a Payer Authentication Request message with no Purchase Date and Time tags and no data. The ACS must return a 3-D Secure error message.
Action	1. Go to the Run ACS Test page. 2. Select **US065 – PAReq message without Purchase Date and Time (VEReq)** from the list of test cases. The screen shows the VEReq that the PIT will send to the ACS. 3. If the ACS has enrolled the PIT's default PAN, click **Send VEReq**. 4. To proceed with a different PAN, edit the <PAN> field in the XML, replacing the PIT's PAN with the desired PAN; then click **Send VEReq**. The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives and the PAReq that will be sent to the ACS per the US065 – PAReq message without Purchase Date and Time (PAReq) message that continues this test case. For this test case, the PIT must receive a VERes message with a response of "Y", indicating that the cardholder is enrolled. The PIT will present an error message if the VERes provides a response other than "Y". 5. Click **Send PAReq**. The PIT sends the PAReq to the ACS via the tester's browser. Authentication window briefly appears while the ACS processes the request and sends the 3-D Secure error response. ACS sends a 3-D Secure error message. PIT evaluates the error message and displays any errors found during the evaluation.
Allowable Results	The ACS must return an Error message with either ErrorCode=3 or ErrorCode=5. As long as the actual error field is identified, this test will be considered a success (despite semantic differences). The ACS may also return a PARes message with cardholder enrollment value of "U" with an iReq=55.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US066–PAReq Message with Purchase Date & Time tags, no data

Description	This test is to verify correct processing of a Payer Authentication Request message that contains Purchase Date and Time tags but no data. The ACS must return a 3-D Secure error message.
Action	1. Go to the Run ACS Test page. 2. Select **US066 – PAReq message with Purchase Date and Time tags, no data (VEReq)** from the list of test cases. The screen shows the VEReq that the PIT will send to the ACS. 3. If the ACS has enrolled the PIT's default PAN, click **Send VEReq**. 4. To proceed with a different PAN, edit the <PAN> field in the XML, replacing the PIT's PAN with the desired PAN; then click **Send VEReq**. The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives and the PAReq that will be sent to the ACS per the US066 – PAReq message with Purchase Date and Time tags, no data (PAReq) message that continues this test case. For this test case, the PIT must receive a VERes message with a response of "Y", indicating that the cardholder is enrolled. The PIT will present an error message if the VERes provides a response other than "Y". 5. Click **Send PAReq**. The PIT sends the PAReq to the ACS via the tester's browser. Authentication window briefly appears while the ACS processes the request and sends the 3-D Secure error response. ACS sends a 3-D Secure error message. PIT evaluates the error message and displays any errors found during the evaluation.
Allowable Results	The ACS must return an Error message with either ErrorCode=3 or ErrorCode=5. As long as the actual error field is identified, this test will be considered a success (despite semantic differences). The ACS may also return a PARes message with cardholder enrollment value of "U" with an iReq=55.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US067–PAReq Message with Purchase Date & Time that exceeds maximum length

Description	This test is to verify correct processing of a Payer Authentication Request message that contains Purchase Date and Time data that exceeds maximum allowable length of 17 bytes. The ACS must return a 3-D Secure error message.
Action	1. Go to the Run ACS Test page. 2. Select **US067 – PAReq message with Purchase Date and Time that exceeds maximum length (VEReq)** from the list of test cases. The screen shows the VEReq that the PIT will send to the ACS. 3. If the ACS has enrolled the PIT's default PAN, click **Send VEReq**. 4. To proceed with a different PAN, edit the <PAN> field in the XML, replacing the PIT's PAN with the desired PAN; then click **Send VEReq**. The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives and the PAReq that will be sent to the ACS per the US067 – PAReq message with Purchase Date and Time that exceeds maximum length (PAReq)" message that continues this test case. For this test case, the PIT must receive a VERes message with a response of "Y", indicating that the cardholder is enrolled. The PIT will present an error message if the VERes provides a response other than "Y". 5. Click **Send PAReq**. The PIT sends the PAReq to the ACS via the tester's browser. Authentication window briefly appears while the ACS processes the request and sends the 3-D Secure error response. ACS sends a 3-D Secure error message. PIT evaluates the error message and displays any errors found during the evaluation.
Allowable Results	The ACS must return an Error message with either ErrorCode=3 or ErrorCode=5. As long as the actual error field is identified, this test will be considered a success (despite semantic differences). The ACS may also return a PARes message with cardholder enrollment value of "U" with an iReq=55.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US068–PAReq Message without Recurring Expiry

Description	This test is to verify correct processing of a Payer Authentication Request message with no Recurring Expiry tags and no data. The ACS must return a 3-D Secure error message.
Action	1. Go to the Run ACS Test page. 2. Select **US068 – PAReq message without Recurring Expiry (VEReq)** from the list of test cases. The screen will show the VEReq that the PIT will send to the ACS. 3. If the ACS has enrolled the PIT's default PAN, click **Send VEReq**. 4. To proceed with a different PAN, edit the <PAN> field in the XML, replacing the PIT's PAN with the desired PAN; then click **Send VEReq**. The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives and the PAReq that will be sent to the ACS per the US068 – PAReq message without Recurring Expiry (PAReq) message that continues this test case. For this test case, the PIT must receive a VERes message with a response of "Y", indicating that the cardholder is enrolled. The PIT will present an error message if the VERes provides a response other than "Y". 5. Click **Send PAReq**. The PIT sends the PAReq to the ACS via the tester's browser. Authentication window briefly appears while the ACS processes the request and sends the 3-D Secure error response. ACS sends a 3-D Secure error message. PIT evaluates the error message and displays any errors found during the evaluation.
Allowable Results	The ACS must return an Error message with either ErrorCode=3 or ErrorCode=5. As long as the actual error field is identified, this test will be considered a success (despite semantic differences). The ACS may also return a PARes message with cardholder enrollment value of "U" with an iReq=55.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US069–PAReq Message with Recurring Expiry tags, no data

Description	This test is to verify correct processing of a Payer Authentication Request message that contains Recurring Expiry tags but no data. The ACS must allow the authentication to proceed, returning a Payer Authentication Response message with Transaction Status of 'Y'.
Action	1. Go to the Run ACS Test page. 2. Select **US069 – PAReq message with Recurring Expiry tags, no data (VEReq)** from the list of test cases. The screen shows the VEReq that the PIT will send to the ACS. 3. If the ACS has enrolled the PIT's default PAN, click **Send VEReq**. 4. To proceed with a different PAN, edit the <PAN> field in the XML, replacing the PIT's PAN with the desired PAN; then click **Send VEReq**. The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives and the PAReq that will be sent to the ACS per the US069 – PAReq message with Recurring Expiry tags, no data (PAReq) message that continues this test case. For this test case, the PIT must receive a VERes message with a response of "Y", indicating that the cardholder is enrolled. The PIT will present an error message if the VERes provides a response other than "Y". 5. Click **Send PAReq**. The PIT sends the PAReq to the ACS via the tester's browser. The authentication form appears and ACS presents first prompt for password. ACS tester responds to the prompt with a valid password. **Successful authentication**: ACS returns a valid PARes message with a CAVV element, ECI value of "5", and Transaction Status set to "Y" to The PIT merchant. PIT evaluates the PARes message and displays the contents of the PARes and any errors found during the evaluation. ACS sends a PATransReq to The PIT AHS and also stores a copy of the message locally. The PIT AHS returns the PATransRes to the ACS.
Allowable Results	The ACS must return an Error message with either ErrorCode=3 or ErrorCode=5. As long as the actual error field is identified, this test will be considered a success (despite semantic differences). The ACS may also return a PARes message with cardholder enrollment value of "U" with an iReq=55.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US070–PAReq Message with Recurring Expiry that exceeds maximum length

Description	This test is to verify correct processing of a Payer Authentication Request message that contains Recurring Expiry data that exceeds the maximum allowable length of 8 bytes. The ACS must return a 3-D Secure error message.
Action	1. Go to the Run ACS Test page. 2. Select **US070 – PAReq message with Recurring Expiry that exceeds maximum length (VEReq)** from the list of test cases. The screen shows the VEReq that the PIT will send to the ACS. 3. If the ACS has enrolled the PIT's default PAN, click **Send VEReq**. 4. To proceed with a different PAN, edit the <PAN> field in the XML, replacing the PIT's PAN with the desired PAN; then click **Send VEReq**. The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives and the PAReq that will be sent to the ACS per the US070 – PAReq message with Recurring Expiry that exceeds maximum length (PAReq) message that continues this test case. For this test case, the PIT must receive a VERes message with a response of "Y", indicating that the cardholder is enrolled. The PIT will present an error message if the VERes provides a response other than "Y". 5. Click **Send PAReq**. The PIT sends the PAReq to the ACS via the tester's browser. Authentication window briefly appears while the ACS processes the request and sends the 3-D Secure error response. ACS sends a 3-D Secure error message. PIT evaluates the error message and displays any errors found during the evaluation.
Allowable Results	The ACS must return an Error message with either ErrorCode=3 or ErrorCode=5. As long as the actual error field is identified, this test will be considered a success (despite semantic differences). The ACS may also return a PARes message with cardholder enrollment value of "U" with an iReq=55.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US071–PAReq Message without Recurring Frequency

Description	This test is to verify correct processing of a Payer Authentication Request message with no Recurring Frequency tags and no data. The ACS must return a 3-D Secure error message.
Action	1. Go to the Run ACS Test page. 2. Select **US071 – PAReq message without Recurring Frequency (VEReq)** from the list of test cases. The screen will show the VEReq that the PIT will send to the ACS. 3. If the ACS has enrolled the PIT's default PAN, click **Send VEReq**. 4. To proceed with a different PAN, edit the <PAN> field in the XML, replacing the PIT's PAN with the desired PAN; then click **Send VEReq**. The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives and the PAReq that will be sent to the ACS per the US071 – PAReq message without Recurring Frequency (PAReq) message that continues this test case. For this test case, the PIT must receive a VERes message with a response of "Y", indicating that the cardholder is enrolled. The PIT will present an error message if the VERes provides a response other than "Y". 5. Click **Send PAReq**. The PIT sends the PAReq to the ACS via the tester's browser. Authentication window briefly appears while the ACS processes the request and sends the 3-D Secure error response. ACS sends a 3-D Secure error message. PIT evaluates the error message and displays any errors found during the evaluation.
Allowable Results	The ACS must return an Error message with either ErrorCode=3 or ErrorCode=5. As long as the actual error field is identified, this test will be considered a success (despite semantic differences). The ACS may also return a PARes message with cardholder enrollment value of "U" with an iReq=55.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US072–PAReq Message with Recurring Frequency with tags, no data

Description	This test is to verify correct processing of a Payer Authentication Request message that contains Recurring Frequency tags but no data. The ACS must allow the authentication to proceed, returning a Payer Authentication Response message with Transaction Status of 'Y'.
Action	1. Go to the Run ACS Test page. 2. Select **US072 – PAReq message with Recurring Frequency tags, no data (VEReq)** from the list of test cases. The screen shows the VEReq that the PIT will send to the ACS. 3. If the ACS has enrolled the PIT's default PAN, click **Send VEReq**. 4. To proceed with a different PAN, edit the <PAN> field in the XML, replacing the PIT's PAN with the desired PAN; then click **Send VEReq**. The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives and the PAReq that will be sent to the ACS per the US072 – PAReq message with Recurring Frequency tags, no data (PAReq) message that continues this test case. For this test case, the PIT must receive a VERes message with a response of "Y", indicating that the cardholder is enrolled. The PIT will present an error message if the VERes provides a response other than "Y". 5. Click **Send PAReq**. The PIT sends the PAReq to the ACS via the tester's browser. The authentication form appears and ACS presents first prompt for password. ACS tester responds to the prompt with a valid password. **Successful authentication**: ACS returns a valid PARes message with a CAVV element, ECI value of "5", and Transaction Status set to "Y" to The PIT merchant. PIT evaluates the PARes message and displays the contents of the PARes and any errors found during the evaluation. ACS sends a PATransReq to The PIT AHS and also stores a copy of the message locally. The PIT AHS returns the PATransRes to the ACS.
Allowable Results	The ACS must return an Error message with either ErrorCode=3 or ErrorCode=5. As long as the actual error field is identified, this test will be considered a success (despite semantic differences). The ACS may also return a PARes message with cardholder enrollment value of "U" with an iReq=55.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US073–PAReq Message with Recurring Frequency that exceeds maximum length

Description	This test is to verify correct processing of a Payer Authentication Request message that contains Recurring Frequency data that exceeds the maximum allowable length of 4 bytes. The ACS must return a 3-D Secure error message.
Action	1. Go to the Run ACS Test page. 2. Select **US073 – PAReq message with Recurring Frequency that exceeds maximum length (VEReq)** from the list of test cases. The screen shows the VEReq that the PIT will send to the ACS. 3. If the ACS has enrolled The PIT's default PAN, click **Send VEReq**. 4. To proceed with a different PAN, edit the \<PAN\> field in the XML, replacing the PIT's PAN with the desired PAN; then click **Send VEReq**. The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives and the PAReq that will be sent to the ACS per the US073 – PAReq message with Recurring Frequency that exceeds maximum length (PAReq)" message that continues this test case. For this test case, the PIT must receive a VERes message with a response of "Y", indicating that the cardholder is enrolled. The PIT will present an error message if the VERes provides a response other than "Y". 5. Click **Send PAReq**. The PIT sends the PAReq to the ACS via the tester's browser. Authentication window briefly appears while the ACS processes the request and sends the 3-D Secure error response. ACS sends a 3-D Secure error message. PIT evaluates the error message and displays any errors found during the evaluation.
Allowable Results	The ACS must return an Error message with either ErrorCode=3 or ErrorCode=5. As long as the actual error field is identified, this test will be considered a success (despite semantic differences). The ACS may also return a PARes message with cardholder enrollment value of "U" with an iReq=55.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US074–PAReq Message without Transaction Identifier

Description	This test is to verify correct processing of a Payer Authentication Request message with no Transaction Identifier tags and no data. The ACS must return a 3-D Secure error message.
Action	1. Go to the Run ACS Test page. 2. Select **US074 – PAReq message without Transaction Identifier (VEReq)** from the list of test cases. The screen will show the VEReq that the PIT will send to the ACS. 3. If the ACS has enrolled the PIT's default PAN, click **Send VEReq**. 4. To proceed with a different PAN, edit the \<PAN\> field in the XML, replacing the PIT's PAN with the desired PAN; then click **Send VEReq**. The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives and the PAReq that will be sent to the ACS per the US074 – PAReq message without Transaction Identifier (PAReq) message that continues this test case. For this test case, the PIT must receive a VERes message with a response of "Y", indicating that the cardholder is enrolled. The PIT will present an error message if the VERes provides a response other than "Y". 5. Click **Send PAReq**. The PIT sends the PAReq to the ACS via the tester's browser. Authentication window briefly appears while the ACS processes the request and sends the 3-D Secure error response. ACS sends a 3-D Secure error message. PIT evaluates the error message and displays any errors found during the evaluation.
Allowable Results	The ACS must return an Error message with either ErrorCode=3 or ErrorCode=5. As long as the actual error field is identified, this test will be considered a success (despite semantic differences). The ACS may also return a PARes message with cardholder enrollment value of "U" with an iReq=55.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US075–PAReq Message with Transaction Identifier tags, no data

Description	This test is to verify correct processing of a Payer Authentication Request message that contains Transaction Identifier tags but no data. The ACS must return a 3-D Secure error message.
Action	1. Go to the Run ACS Test page. 2. Select **US075 – PAReq message with Transaction Identifier tags, no data (VEReq)** from the list of test cases. The screen shows the VEReq that the PIT will send to the ACS. 3. If the ACS has enrolled the PIT's default PAN, click **Send VEReq**. 4. To proceed with a different PAN, edit the <PAN> field in the XML, replacing the PIT's PAN with the desired PAN; then click **Send VEReq**. The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives and the PAReq that will be sent to the ACS per the US075 – PAReq message with Transaction Identifier tags, no data (PAReq) message that continues this test case. For this test case, the PIT must receive a VERes message with a response of "Y", indicating that the cardholder is enrolled. The PIT will present an error message if the VERes provides a response other than "Y". 5. Click **Send PAReq**. The PIT sends the PAReq to the ACS via the tester's browser. Authentication window briefly appears while the ACS processes the request and sends the 3-D Secure error response. ACS sends a 3-D Secure error message. PIT evaluates the error message and displays any errors found during the evaluation.
Allowable Results	The ACS must return an Error message with either ErrorCode=3 or ErrorCode=5. As long as the actual error field is identified, this test will be considered a success (despite semantic differences). The ACS may also return a PARes message with cardholder enrollment value of "U" with an iReq=55.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

US076–PAReq Message with Transaction Identifier that exceeds maximum length

Description	This test is to verify correct processing of a Payer Authentication Request message that contains Transaction Identifier data that exceeds maximum allowable length of 28 bytes. The ACS must return a 3-D Secure error message.
Action	1. Go to the Run ACS Test page. 2. Select **US076 – PAReq message with Transaction Identifier that exceeds maximum length (VEReq)** from the list of test cases. The screen shows the VEReq that the PIT will send to the ACS. 3. If the ACS has enrolled The PIT's default PAN, click **Send VEReq**. 4. To proceed with a different PAN, edit the <PAN> field in the XML, replacing the PIT's PAN with the desired PAN; then click **Send VEReq**. The PIT sends the VEReq to the ACS, receives a response message, and then, on the "Review VERes/PAReq" page, displays the VERes it receives and the PAReq that will be sent to the ACS per the US076 – PAReq message with Transaction Identifier that exceeds maximum length (PAReq)" message that continues this test case. For this test case, the PIT must receive a VERes message with a response of "Y", indicating that the cardholder is enrolled. The PIT will present an error message if the VERes provides a response other than "Y". 5. Click **Send PAReq**. The PIT sends the PAReq to the ACS via the tester's browser. Authentication window briefly appears while the ACS processes the request and sends the 3-D Secure error response. ACS sends a 3-D Secure error message. PIT evaluates the error message and displays any errors found during the evaluation.
Allowable Results	The ACS must return an Error message with either ErrorCode=3 or ErrorCode=5. As long as the actual error field is identified, this test will be considered a success (despite semantic differences). The ACS may also return a PARes message with cardholder enrollment value of "U" with an iReq=55.
Expected Results	All of the above processing succeeds. Tester must review the log and ensure that the PIT has generated no error messages when evaluating any of the ACS-generated messages. If an error message is found, the tester must correct the error and re-perform the test case in its entirety until the test is completed successfully.

5. EU Region Optional Test Cases

The test cases in this section are optional for the EU region.

5.1 Commercial Card

Test Case EU c001–Commercial cards fully Authenticated (ECI 5) Inter regional (Optional)

Description	This test is to verify merchant processing of a successful 3-D Secure authentication using a 16-digit valid commercial PAN.
Action	MPI tester makes a purchase at the tester's merchant storefront using the PAN value 4012001037141110.
Expected Results	• Merchant connects to the PIT Directory Server and sends a VEReq. • PIT Directory Server sends a VERes message back to the MPI. • Merchant MPI generates and sends a PAReq to the PIT ACS. • PIT ACS returns a PARes with a CAVV value and a Transaction Status set to "Y" to the Merchant. • Successful Payer Authentication - Merchant commerce server proceeds with authorization; authorization request message has ECI value set to 5 and contains XID and CAVV values. • The Merchant Plug-in server logs a successful 3-D Secure authentication. • Must include the ability to support masked PAN if requested. • MPI tester reviews test log for the test case to determine if the PIT found any errors during the evaluation of the 3-D Secure messages. MPI tester must correct any errors and rerun the test case until it is completed successfully.

Test Case EU c002–Commercial Cards enrolled ECI 6 Inter regional transaction (Optional)

Description	This test is to verify merchant processing of a transaction that successfully qualifies for the liability shift for merchant attempt using a 16-digit cardholder PAN.
Action	MPI tester makes a purchase at the tester's merchant storefront using the PAN value 4012001037141113.
Expected Results	• Merchant connects to the PIT Directory Server and sends a VEReq. • PIT Directory Server sends a VERes message back to the MPI. • Merchant MPI generates and sends a PAReq to the PIT ACS. • PIT ACS returns a PARes with a CAVV value and a Transaction Status set to "A" to the Merchant. • Successful Merchant Attempt - Merchant commerce server proceeds with authorization; authorization request message has ECI value set to 6 and contains XID and CAVV values. • The Merchant Plug-in server logs a successful 3-D Secure authentication. • Must include the ability to support masked PAN if requested. • MPI tester reviews test log for the test case to determine if the PIT found any errors during the evaluation of the 3-D Secure messages. MPI tester must correct any errors and rerun the test case until it is completed successfully.

Test Case EU c003–Commercial Cards enrolled ECI 6 Intra regional transaction (Optional)

Description	This test is to verify merchant processing of a successful 3-D Secure authentication using a 16-digit valid commercial PAN.
Action	MPI tester makes a purchase at the tester's merchant storefront using the PAN value 4012001037141114.
Expected Results	• Merchant connects to the PIT Directory Server and sends a VEReq. • PIT Directory Server sends a VERes message back to the MPI. • Merchant MPI generates and sends a PAReq to the PIT ACS. • PIT ACS returns a PARes with a CAVV value and a Transaction Status set to "A" to the Merchant. • Successful Merchant Attempt - Merchant commerce server proceeds with authorization; authorization request message has ECI value set to 6 and contains XID and CAVV values. • The Merchant Plug-in server logs a successful 3-D Secure authentication. • Must include the ability to support masked PAN if requested. • MPI tester reviews test log for the test case to determine if the PIT found any errors during the evaluation of the 3-D Secure messages. MPI tester must correct any errors and rerun the test case until it is completed successfully.

Test Case EU c004–Commercial Cards unenrolled ECI 6 Intra regional transaction (Optional)

Description	This test is to verify merchant processing when a VERes is received from the Directory Server indicating that the cardholder does not participate in 3-D Secure.
Action	Merchant sends a VEReq to the PIT Directory Server using the PAN value 4012001037141115.
Expected Results	• Merchant connects to the PIT Directory Server and sends a VEReq. • PIT Directory Server sends a VERes message back to the MPI containing an enrollment status of "N", indicating that the cardholder is not enrolled in 3-D Secure. • Transaction qualifies for the Attempts liability shift; merchant commerce server proceeds with authorization request in which ECI value is set to 6. • The Merchant Plug-in server log records a 3-D Secure authentication outcome of Cardholder Not Participating.

Test Case EU c005–Commercial Cards unenrolled ECI 6 Inter regional transaction (Optional)

Description	This test is to verify merchant processing when a VERes is received from the Directory Server indicating that the cardholder does not participate in 3-D Secure.
Action	Merchant sends a VEReq to the PIT Directory Server using the PAN value 4012001037141116.
Expected Results	• Merchant connects to the PIT Directory Server and sends a VEReq. • PIT Directory Server sends a VERes message back to the MPI containing an enrollment status of "U", indicating that the cardholder is not enrolled in 3-D Secure. • Transaction does **not** qualify for the Attempts liability shift; merchant commerce server proceeds with authorization request in which ECI value is set to 6, but this will be downgraded to an ECI value of 7 in VisaNet. • The Merchant Plug-in server log records a 3-D Secure authentication outcome of Cardholder Not Participating.