



EMV® Specification Bulletin No. 211

December 2018

EMV 3-D Secure SDK Updates, Clarifications & Errata

This Specification Bulletin No. 211 provides updates, clarifications and errata incorporated into the EMV 3-D Secure Protocol and Core Functions Specification since version 2.1.0 (including SB 205v1).

EMV® 3-D Secure SDK Key Features v2.2.0

This Specification Bulletin No. 211 introduces new 3-D Secure features included in version 2.2.0 of the 3-D Secure SDK Specification.

Applicability

This Specification Bulletin applies to:

- *EMV® 3-D Secure—SDK Specification, Version 2.2.0*

Updates are provided in the order in which they appear in the specification. Deleted text is identified using strikethrough, and red font is used to identify changed text. Unedited text is provided only for context.



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Chapter 4 Code Elements of the EMV 3-D Secure Mobile SDK

4.1.5 getWarnings

getWarnings Parameters

None.

Table 4.9: get Warnings Exceptions

Exception	Description
SDKNotInitializedException	This exception shall be thrown if the 3DS SDK instance has not been initialized. For more information, see Class <code>SDKNotInitializedException</code> .

Note, the subsequent tables in Chapter 4 were renumbered accordingly.

4.4.1 getAuthenticationRequestParameters

getAuthenticationRequestParameters

None.

Table 4.22: getAuthenticationRequestParameters Exceptions

Exception	Description
SDKRuntimeException	This exception shall be thrown if an internal error is encountered by the 3DS SDK. For more information, see Class <code>SDKRuntimeException</code> .

4.4.2 doChallenge

Note: After this method is called and the resources are cleaned up, any further operation on the Transaction object should result in an `SDKRuntimeException`.

Table 4.24 doChallenge Exceptions

Exception	Description
SDKRuntimeException	This exception shall be thrown if an internal error is encountered by the 3DS SDK. For more information, see Class <code>SDKRuntimeException</code> .



4.4.3 getprogressView

Table 4.26 getProgressView Exceptions

Exception	Description
SDKRuntimeException	This exception shall be thrown if an internal error is encountered by the 3DS SDK. For more information, see Class <code>SDKRuntimeException</code> .

4.4.4 close

Note: After this method is called and the resources are cleaned up, any further operation on the Transaction object should result in an `SDKRuntimeException`.

4.11 Class Challenge Parameters

```
public class ChallengeParameters {  
    public void set3DSServerTransactionID(...)  
    public void setAcsTransactionID(...)  
    public void setAcsRefNumber(...)  
    public void setAcsSignedContent(...)  
    public void setThreeDSRequestorAppURL(...)  
    public String get3DSServerTransactionID(...)  
    public String getAcsTransactionID(...)  
    public String getAcsRefNumber(...)  
    public String getAcsSignedContent(...)  
    public String getThreeDSRequestorAppURL(...)  
}
```

Table 4.75 ChallengeParameters Class Methods

Method	Description
<code>setThreeDSRequestorAppURL</code>	Sets the 3DS Requestor App URL.
<code>getThreeDSRequestorAppURL</code>	Returns the 3DS Requestor App URL.

4.11.5 setThreeDSRequestorAppURL

The `setThreeDSRequestorAppURL` method may set the 3DS Requestor App URL. If the app sets the URL, then the SDK shall pass the URL in the CReq.

The following Java code snippet shows the signature of the `setThreeDSRequestorAppURL` method:

```
public void setThreeDSRequestorAppURL (String threeDSRequestorAppURL)
```



setThreeDSRequestorAppURL Parameters

Table 4.80 setThreeDSRequestorAppURL Parameters

Parameter	Mandatory?	Description
threeDSRequestorAppURL	Yes	3DS Requestor App URL

setThreeDSRequestorAppURL Return Value

None.

setThreeDSRequestorAppURL Exceptions

None.

4.11.10 getThreeDSRequestorAppURL

The `getThreeDSRequestorAppURL` may return the 3DS Requestor App URL.

The following Java code snippet shows the signature of the `getThreeDSRequestorAppURL` method:

```
public String getThreeDSRequestorAppURL()
```

getThreeDSRequestorAppURL Parameters

None

getThreeDSRequestorAppURL Return Value

This method returns the 3DS Requestor App URL as a string.

getThreeDSRequestorAppURL Exceptions

None.

Chapter 5 Message Processing

5.2 Challenge Processing

[Req 70]

During Out-of-Band (OOB) authentication, when the 3DS Requestor App comes to the foreground, the CReq shall automatically be submitted to the ACS and the value of the OOB Continuation Indicator field shall be set to true.

Chapter 7 User Interface

7.1 HTML UI

[Req 64]

If the CRes message contains the ACS HTML Refresh field, then the 3DS SDK shall display the HTML contained in this field when the app is moved to the foreground.



7.2 Native UI

[Req 40]

The Cardholder data (response) shall be captured and sent to the ACS in the CReq message. The **Challenge Data Entry** field in the CReq message holds the Cardholder's challenge response. **If the cardholder has submitted the response without entering any data in the UI, the Challenge Data Entry field shall not be present in the CReq message.**

[Req 71]

If the Cardholder does not enter any data in the UI, the Challenge No Entry field shall be sent in the CReq message with the value "Y."

[Req 65]

~~If the CRes message contains the Challenge Additional Information Text field, then the 3DS SDK shall replace the Challenge Information Text and Challenge Information Text Indicator fields with the contents of the Challenge Additional Information Text field when the app is moved to the foreground.~~

7.2.1 Input and Output Formats for Native UI

~~Note: If no data is entered by the Cardholder in the Challenge Data Entry field, do not allow the Cardholder to submit the field.~~



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