



**EMV® Specification Bulletin No. 222 v1**  
**August 2019**

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**EMV 3-D Secure SDK—Device Information Data Version 1.3**

*This Specification Bulletin No. 222 v1 provides updates, clarifications and errata incorporated into EMV 3-D Secure SDK—Device Information Data Version 1.1, including SB 205 v1, and SB 213 v1.*

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**Applicability**

*This Specification Bulletin applies to:*

- *EMV 3-D Secure SDK—Device Information Data Version 1.3*

*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.*

**Effective Date**

*August 2019*

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## **Chapter 1 Introduction**

### **1.5 Data Version Number**

**Table 1.2 Data Version Numbers**

Data Version Number	Protocol Version	Status
1.3	2.1.0 2.2.0	Active

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## **Chapter 2 Device Information Parameters**

### **2.1 Data Version**

The device identification parameters that are described in this document constitute Data Version 1.1 **1.3**.

### **2.2 Minimum Supported Platform Versions**

**Table 2.1 Minimum Supported Platform Version**

Platform	Minimum Version
Windows 10-Mobile	10

### **2.4 Common Device Identification Parameters Available in All Mobile Platforms**

In addition to the platform-specific device parameters discussed later in this document, Table 2.2 lists the device parameters that shall be collected from all mobile platforms (Android, iOS and Windows) for Device ID validation and risk analysis. For Platform Provider-specific parameters, refer to section 2.8.

### **2.8 Platform Provider-specific Parameters**

Table 2.6 provides information about the device parameters that shall be collected by the 3DS SDK for risk analysis by the ACS. If providing platform provider-specific parameters, the parameters defined in sections 2.4, 2.5, 2.6 and 2.7 shall not be provided.

**Table 2.6 Platform Provider-specific Parameters**

Identifier	Parameter	Description	Permissions
D001	Platform	Platform that the device is using.	Not applicable
D002	Device Model	Platform-defined device model.	No permissions required



Identifier	Parameter	Description	Permissions
D003	OS Name	Platform defined OS name.	No permissions required
D005	Locale	Device locale set by the user.	No permissions required
D006	Time zone	User selected or platform provisioned time zone for the user's device rendering the 3DS challenge. Expressed in UTC.	No permissions required
D008	Screen Resolution	Pixel width and pixel height, i.e., 1080x1920.	No permissions required
D021	DeviceId	Unique and immutable identifier linked to a device that is consistent across 3DS transactions for the specific user device.  For example: <ul style="list-style-type: none"><li>• Hardware Device ID</li><li>• Platform calculated device fingerprint</li></ul>	Not applicable
D022	DeviceType	Constant that indicates the device type.  Valid Values: <ul style="list-style-type: none"><li>• 01 = Desktop</li><li>• 02 = TV connected</li><li>• 03 = Tablet/Mobile</li><li>• 04 = Headless/Voice</li><li>• 05 = Wearable</li><li>• 06 = IOT</li><li>• 99 = Other</li></ul>	Not applicable

<b>Identifier</b>	<b>Parameter</b>	<b>Description</b>	<b>Permissions</b>
D023	InputType	<p>List of cardholder input methods enabled on the device.</p> <p>Valid values:</p> <ul style="list-style-type: none"> <li>• 01 = Physical Keyboard</li> <li>• 02 = Touch Keyboard</li> <li>• 03 = TV connected Onscreen Keyboard</li> <li>• 04 = Voice Activated</li> <li>• 05 = Gesture Activated</li> <li>• 99 = Other</li> </ul>	Not applicable
D024	OutputType	<p>List of output methods enabled on the device:</p> <p>Valid values:</p> <ul style="list-style-type: none"> <li>• 01 = Display</li> <li>• 02 = Audio</li> <li>• 03 = Monochrome Display</li> <li>• 99 = Other</li> </ul>	Not applicable
D025	LogoPreferenceColour	<p>Preferred network and issuer logo colour preference.</p> <p>Valid values:</p> <ul style="list-style-type: none"> <li>• 01 = Full Colour</li> <li>• 02 = Monochrome White</li> <li>• 03 = Monochrome Black</li> <li>• 99 = Other</li> </ul>	No permissions required
D026	UserID	<p>Identifier of the transacting user's platform Account ID.</p> <p>This identifier is a unique immutable hash of the users account identifier for the given platform.</p> <p>Note: cardholders may have more than one account on a given platform.</p>	No permissions required but privacy policy requirements may exist



Identifier	Parameter	Description	Permissions
D027	Languages	Gets the set of languages preferred by the user, in the order of preference.	No permissions required
D028	OriginatingDeviceID	<p>The device identifier of the device where the transaction started before it was transferred to another device or method for/to complete authentication.</p> <p>For example:</p> <ul style="list-style-type: none"><li>• Hardware Device ID</li><li>• Platform calculated device fingerprint</li></ul>	Not applicable



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