

# Object - sdk

SDK is optional but if it is returned, the data it contains is required.

| Field                    | Description                                                                                                                                                                                                                                                                                                                                                                                          | Req<br>uired | For<br>mat | Condition                    |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------|------------------------------|
| deviceRenderingOptionsIF | Lists all of the SDK Interface types that the device supports for displaying specific challenge user interfaces within the SDK.<br><br>Values accepted:<br>• 01 = Native<br>• 02 = HTML<br>• 03 = Both                                                                                                                                                                                               | Yes          | AN2        | Version 21 or higher (3DSV2) |
| deviceRenderOptionsUI    | Lists all UI types that the device supports for displaying specific challenge user interfaces within the SDK.<br><br>String values accepted:<br><br>• 01 = Text<br>• 02 = Single Select<br>• 03 = Multi Select<br>• 04 = OOB<br>• 05 = HTML Other (valid only for HTML UI)<br><br>The merchant should include more than one value, for instance : 01,02,03,05                                        | Yes          | AN20       | Version 21 or higher (3DSV2) |
| appId                    | Universally unique ID created upon all installations and updates of the 3DS Requestor App on a Consumer Device. This will be newly generated and stored by the 3DS SDK for each installation or update.<br><br>Length: 36 characters with JSON Data Type.<br><br>Canonical format as defined in IETF RFC 4122. This may utilise any of the specified versions as long as the output meets specified. | Yes          | AN36       | Version 21 or higher (3DSV2) |
| ephemPubKey              | Public key component of the ephemeral key pair generated by the 3DS SDK and used to establish session keys between the 3DS SDK and ACS.<br><br>In AReq, this data element is present as its own object.<br><br>In ARes, this data element is contained within the ACS Signed Content JWS Object.                                                                                                     | Yes          | AN256      | Version 21 or higher (3DSV2) |
| maxTimeout               | Indicates maximum amount of time (in minutes) for all exchanges.<br><br>Greater than or equal 05 with max 99                                                                                                                                                                                                                                                                                         | Yes          | AN2        | Version 21 or higher (3DSV2) |
| referenceNumber          | Identifies the vendor and version for the 3DS SDK that is integrated in a 3DS Requestor App, assigned by EMVCo when the 3DS SDK is approved.                                                                                                                                                                                                                                                         | Yes          | AN32       | Version 21 or higher (3DSV2) |
| transID                  | Universally unique transaction identifier assigned by the 3DS SDK to identify a single transaction.                                                                                                                                                                                                                                                                                                  | Yes          | AN36       | Version 21 or higher (3DSV2) |
| encData                  | Send the encryption Data from the sdk information mobile in the verifyEnrollmentRequest :<br><br>For instance : <![CDATA[497sbyjfg6fd...f654df65sd4f654]]><br><br>Length: Variable, maximum 64000 characters<br><br>JSON Data Type: String                                                                                                                                                           | No           | AN64000    |                              |