

authenticationResponse



The **authenticationResponse** object is part of the Authentication Notification sent from Paygate to the merchant server. It is only applicable to [Server-to-Server](#) integrations.

Please note that all data elements listed below will be present in **authenticationResponse** but might hold an *empty string* based on the *condition*.

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Data Elements

	Key	Format	CND	Description
1	threeDSServerTransID	string	M	Computop Paygate PayID in canonical format as specified in IETF RFC 4122.
2	acsChallengeMandated	boolean	M	Indication of whether a challenge is required for the transaction to be authorised due to local/regional mandates or other variable: • true Challenge is mandated by local/regional regulations • false Challenge is not mandated by local/regional regulations, but is deemed necessary by the ACS
3	acsDecoupledIndicator	boolean	C	Indicates whether the ACS confirms utilisation of Decoupled Authentication and agrees to utilise Decoupled Authentication to authenticate the cardholder. Required if Transaction Status = D.
4	acsOperatorID	string	C	DS assigned ACS identifier. Each DS can provide a unique ID to each ACS on an individual basis. Requirements for the presence of this field are DS specific.
5	acsReferenceNumber	string	M	Unique identifier assigned by the EMVCo Secretariat upon Testing and Approval.
6	acsRenderingType	object	C	App-based only. Identifies the ACS UI Template that the ACS will first present to the consumer. Required if Transaction Status = C.
7	acsSignedContent	string	C	App-based only. Contains the JWS object (represented as a string) created by the ACS for the ARes message. Required if the Transaction Status = C.
8	acsTransactionID	string	M	Universally Unique transaction identifier assigned by the ACS to identify a single transaction
9	acsURL	string	C	Fully qualified URL of the ACS to be used to post the Challenge Request. For App-based, this data element is contained within the ACS Signed Content JWS Object. Required if Transaction Status = C.
10	authenticationType	string	C	Indicates the type of authentication method the Issuer will use to challenge the cardholder. Required if the Transaction Status = C or D. Values accepted: • 01 = static • 02 = dynamic • 03 = oob Future implementation. Protocol Version 2.2.0 onwards - • 04 = decoupled
11	authenticationValue	string	C	Payment System-specific value provided by the ACS or the DS to provide proof of authentication. Required if Transaction Status = Y or A. Conditional based on DS rules if Transaction Status = I.
12	additionalInfo	string	C	Unstructured information sent between the 3DS Server, the DS and the ACS. Requirements for the presence of this field are DS specific.
13	cardholderInfo	string	C	Text provided by the ACS/Issuer to Cardholder during a Frictionless or Decoupled transaction. The Issuer can provide information to Cardholder. For example, "Additional authentication is needed for this transaction, please contact (Issuer Name) at xxx-xxx-xxxx." Required if ACS Decoupled Confirmation Indicator = true Otherwise, Optional for the ACS.
14	dsReferenceNumber	string	M	EMVCo-assigned unique identifier to track approved DS.

15	dsTransID	string	M	Universally unique transaction identifier assigned by the DS to identify a single transaction.
16	eci	string	M	Payment System-specific value provided by the ACS or DS to indicate the results of the attempt to authenticate the Cardholder. The requirements for the presence of this field are DS specific.
17	messageExtension	string	C	Data necessary to support requirements not otherwise defined in the 3-D Secure message are carried in a Message Extension. Conditions to be set by each DS.
18	messageType	string	M	Identifies the type of message that is passed. Values accepted: • AReq • ARes • CReq • CRes • PReq • Pres • RReq • RRes
19	messageVersion	string	M	Protocol version identifier.
20	sdkTransID	string	C	App-based only. Universally unique transaction identifier assigned by the 3DS SDK to identify a single transaction.
21	transactionStatus	string	M	Indicates whether a transaction qualifies as an authenticated transaction. Values accepted: • Y = Authentication Verification Successful. • N = Not Authenticated /Account Not Verified; Transaction denied. • U = Authentication/ Account Verification Could Not Be Performed; Technical or other problem, as indicated in ARes or RReq. • A = Attempts Processing Performed; Not Authenticated/Verified, but a proof of attempted authentication/verification is provided. • C = Challenge Required; Additional authentication is required using the CReq/CRes. • D = Challenge Required; Decoupled Authentication confirmed. • R = Authentication/ Account Verification Rejected; Issuer is rejecting authentication/verification and request that authorisation not be attempted. • I = Informational Only; 3DS Requestor challenge preference acknowledged.
22	transactionStatusReason	string	C	Provides information on why the Transaction Status field has the specified value. Required if the Transaction Status field = N, U, or R. Values accepted: see table
23	whitelistStatus	string	C	Future use. Only supported with protocol version 2.2.0 onwards. Enables the communication of trusted beneficiary/whitelist status. Values accepted: • Y = 3DS Requestor is whitelisted by cardholder • N = 3DS Requestor is not whitelisted by cardholder • E = Not eligible as determined by issuer • P = Pending confirmation by cardholder • R = Cardholder rejected • U = Whitelist status unknown, unavailable, or does not apply
24	whitelistStatusSource	string	C	Future use. Only supported with protocol version 2.2.0 onwards. This data element will be populated by the system setting Whitelist Status. Values accepted: • 01 = 3DS Server • 02 = DS • 03 = ACS
25	challengeRequest	object	C	Challenge request object in case the authentication response message indicates that further cardholder interaction is required to complete the authentication.

26	base64 Encod edChal lengeR equest	string	C	Base64-encoded Challenge Request object in case the authentication response message indicates that further cardholder interaction is required to complete the authentication.
27	threeD SComp Ind	string	M	Indicates whether the 3DS Method successfully completed. • Y = Successfully completed • N = Did not successfully complete • U = Unavailable - 3DS Method URL was not present the card account number

Schema

 BASEURL= <https://www.computop-paygate.com/schemas>

```
{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "$id": "BASEURL/authenticationResponse.json",
  "title": "authenticationResponse",
  "description": "Authentication Response",
  "type": "object",
  "properties": {
    "threeDServerTransID": {
      "type": "string",
      "maxLength": 36
    },
    "acsChallengeMandated": {
      "type": "boolean"
    },
    "acsDecConInd": {
      "type": "boolean"
    },
    "acsOperatorID": {
      "type": "string",
      "maxLength": 32
    },
    "acsReferenceNumber": {
      "type": "string",
      "maxLength": 32
    },
    "acsRenderingType": {
      "type": "object",
      "properties": {
        "acsInterface": {
          "type": "string",
          "enum": ["native", "html", ""],
          "description": "The ACS interface that the challenge will present to the cardholder."
        },
        "acsUiTemplate": {
          "type": "string",
          "enum": ["text", "singleSelect", "multiSelect", "oob", "other", ""],
          "description": "Identifies the UI Template format that the ACS first presents to the consumer."
        }
      },
      "required": ["acsInterface", "acsUiTemplate"],
      "additionalProperties": false
    },
    "acsSignedContent": {
      "type": "string"
    },
    "acsTransID": {
      "type": "string",
      "maxLength": 36
    },
    "acsURL": {
```

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        "type": "string",
        "maxLength": 2048,
        "format": "uri"
    },
    "authenticationType": {
        "type": "string",
        "enum": ["static", "dynamic", "oob", "decoupled", ""]
    },
    "authenticationValue": {
        "type": "string",
        "maxLength": 28
    },
    "broadInfo": {
        "type": "string",
        "maxLength": 4096
    },
    "cardholderInfo": {
        "type": "string",
        "maxLength": 128
    },
    "dsReferenceNumber": {
        "type": "string",
        "maxLength": 32
    },
    "dsTransID": {
        "type": "string",
        "maxLength": 36
    },
    "eci": {
        "type": "string",
        "maxLength": 2
    },
    "messageExtension": {
        "type": "string",
        "maxLength": 81920
    },
    "messageType": {
        "type": "string",
        "enum": ["ARes"]
    },
    "messageVersion": {
        "type": "string",
        "minLength": 5,
        "maxLength": 8
    },
    "sdkTransID": {
        "type": "string",
        "maxLength": 36
    },
    "transStatus": {
        "type": "string",
        "enum": ["Y", "N", "U", "A", "C", "D", "R", "I", ""]
    },
    "transStatusReason": {
        "type": "string",
        "enum": ["01", "02", "03", "04", "05", "06", "07", "08", "09",
"10", "11", "12", "13", "14", "15", "16", "17", "18", "19", "20", "21",
"22", "23", "24", "25", "26", "80", "81", "82", "83", "84", "85", "86",
"87", "88", ""]
    },
    "whitelistStatus": {
        "type": "string",
        "enum": ["Y", "N", "E", "P", "R", "U", ""]
    },
    "whitelistStatusSource": {
        "type": "string",
        "enum": ["01", "02", "03", ""]
    },
    "challengeRequest": {
        "type": "object",
        "properties": {

```

```

        "threeDSServerTransID": {
            "type": "string",
            "maxLength": 36
        },
        "acsTransID": {
            "type": "string",
            "maxLength": 36
        },
        "challengeWindowSize": {
            "type": "string",
            "enum": ["01", "02", "03", "04",
"05"]
        },
        "messageVersion": {
            "type": "string",
            "minLength": 5,
            "maxLength": 8
        },
        "messageType": {
            "type": "string",
            "enum": ["CReq"]
        }
    },
    "required": ["threeDSServerTransID", "acsTransID",
"challengeWindowSize", "messageVersion", "messageType"],
    "additionalProperties": false
},
    "base64EncodedChallengeRequest": {
        "type": "string"
    },
    "threeDSCompInd": {
        "type": "string",
        "enum": ["Y", "N", "U", ""]
    }
},
    "required": [
        "threeDSServerTransID",
        "acsChallengeMandated",
        "acsOperatorID",
        "acsReferenceNumber",
        "acsRenderingType",
        "acsSignedContent",
        "acsTransID",
        "acsURL",
        "authenticationType",
        "authenticationValue",
        "broadInfo",
        "cardholderInfo",
        "dsReferenceNumber",
        "dsTransID",
        "eci",
        "messageExtension",
        "messageType",
        "messageVersion",
        "sdkTransID",
        "transStatus",
        "transStatusReason",
        "whitelListStatus",
        "whitelListStatusSource",
        "challengeRequest",
        "base64EncodedChallengeRequest",
        "threeDSCompInd"
    ],
    "additionalProperties": false
}

```

Sample

```

{
  "threeDSServerTransID": "d9cf63f3-98ba-4e82-aa39-ca90c68f5262",
  "acsChallengeMandated": false,
  "acsDecConInd": false,
  "acsOperatorID": "visaOperatorId",
  "acsReferenceNumber": "3DS_LOA_ACS_NEAG_020100_00055",
  "acsRenderingType": {
    "acsInterface": "",
    "acsUiTemplate": ""
  },
  "acsSignedContent": "",
  "acsTransID": "fa15dced-02b7-4469-9a79-225786a02ae1",
  "acsURL": "https://mc-id-check.firstdata.de
/challengeRequestBrowser",
  "authenticationType": "",
  "authenticationValue": "",
  "broadInfo": "",
  "cardholderInfo": "",
  "dsReferenceNumber": "VISA.V 17 0003",
  "dsTransID": "a9645de6-52ba-4f79-abaa-f3050b9a5300",
  "eci": "",
  "messageExtension": "",
  "messageType": "ARes",
  "messageVersion": "2.1.0",
  "sdkTransID": "",
  "transStatus": "C",
  "transStatusReason": "",
  "whitelistStatus": "",
  "whitelistStatusSource": "",
  "challengeRequest": {
    "threeDSServerTransID": "d9cf63f3-98ba-4e82-aa39-
ca90c68f5262",
    "acsTransID": "fa15dced-02b7-4469-9a79-225786a02ae1",
    "challengeWindowSize": "03",
    "messageVersion": "2.1.0",
    "messageType": "CReq"
  },
  "base64EncodedChallengeRequest":
"eyJtZXNzYwdlVHlwZSI6IkNSZXEiLCJ0aHJlZURTU2VydMvYyVHJhbnNJRCI6ImQ5Y2Y2M2YzLT
k4YmEtNGU4Mi1hYTM5LWNhOTBjbnJhbmNTI2MiIsImFjc1RyYW5zSUQiOiJmYTE1ZGNlZC0wMmI3L
TQ0NjktOWE3OS0yMjU3ODZhMDJhZTEiLCJjaGFsbGVuZ2Vxaw5kb3dTaXplIjoimMDMiLCJtZXNz
YwdlVmVyc2l2b2I6IjIuMS4wIn0=",
  "threeDSCompInd": ""
}

```