eIDAS-Node Error Codes

Version 2.5

Document history

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2.0	11/04/2018	Some rationalisation of error codes after clean-up for release v2.0	DIGIT
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1. Introduction

This document is intended for a technical audience consisting of developers, administrators and those requiring detailed technical information on operation of the eIDAS-Node application.

The document contains tables showing the error codes that could be generated by components along with a description of the error, specific behaviour and, where relevant, possible operator actions to remedy the error.

2. Event detailed error codes and associated actions

The following tables show the error codes that could be generated by components along with a description of the error, specific behaviour and, where relevant possible operator actions to remedy the error.

2.1. Generic error messages

Table 1: Generic error messages

Error Code	Message	Description	Behaviour	Operator action
003001	Invalid remote address	The remote address is empty or invalid	No SAML Response is generated	Business exception, no action needs to be taken
003002	Authentication Failed	Citizen's authentication failed.	urn:oasis:names:tc:SAML:2.0:status: AuthnFailed	Typical business exception, no action needs to be taken.
003003	Invalid Protocol Binding	Current protocol binding is either invalid or not compatible with the current http method	No SAML Response is generated, error code 201002 or 200006 is displayed to the user	Business exception, no action needs to be taken.
003004	Invalid Signed Assertion	The attribute assertion in the response is signed and its signature does not validate.	No SAML Response is generated	SAML message integrity compromised, no action needs to be taken.
003005	Invalid redirect URL	The redirect URL is empty or invalid	No SAML Response is generated	Business exception, no action needs to be taken
003006	Invalid metadata	Metadata content is invalid (expired)	No SAML Response is generated	Business exception, no action needs to be taken

Error Code	Message	Description	Behaviour	Operator action
003007	Invalid Level of Assurance	The request or the response contains an invalid value for Level of Assurance. Valid values are: Any of 3 notified LoA Values: **http://eidas.europa.eu/LoA/low,** **http://eidas.europa.eu/LoA/substantial,** **http://eidas.europa.eu/LoA/high** Or a non-notified: A valid absolute URI that does not start with the eidas prefix **http://eidas.europa.eu/LoA**	No SAML Response is generated	Business exception, no action needs to be taken
003008	Invalid source for metadata	Metadata source is not valid (i.e. it should only be retrieved from an HTTPS URL)	No SAML Response is generated	Business exception, no action needs to be taken
003009	Metadata information cannot be loaded	Metadata source is incorrect or unavailable, or the format of the metadata is incorrect.	No SAML Response is generated	Business exception, action needs to be taken

2.2.   eIDAS Node Connector related errors

Table 2: eIDAS Node Connector related errors

Error Code	Message	Description	Behaviour	Operator action
200001	QAA Level is missing or max eIDAS-Node level is lower than requested QAA level	The SP QAA Level is either missing from Service Provider Request (SP) or the has a higher value than allowed QAA Level for the SP	SAML Response generated with *http://www.stork.gov.eu/saml20/statusCodes/QAANotSupported* Error message will be displayed in logs.	The Quality Assurance level needs to be aligned between SP and eIDAS-Node Connector. This message is deprecated

Error Code	Message	Description	Behaviour	Operator action
200002	SP ID is missing or not found in SP List	The SP ID is either missing or not found in the trusted Service	No SAML Response is generated Error message will be displayed in logs.	SP ID is not recognised by the eIDAS-Node Connector configuration.
200003	SP Domain is missing or not found in SP List	The SP Domain is either missing or not found in the trusted Service	No SAML Response is generated Error message will be displayed in logs.	SP Domain is not recognised by the eIDAS-Node Connector configuration.
200004	Selected country is not a valid country.	The selected country is either missing or invalid.	SAML Response generated with urn:oasis:names:tc:SAML:2.0: status:RequestDenied Error message will be displayed in logs	The country is not recognised in the eIDAS-Node Connector configuration.
200005	SP not allowed to access requested attributes.	The SP is requesting an attribute that is not authorised to request.	SAML Response generated with urn:oasis:names:tc:SAML:2.0: status:InvalidAttrNameOrValue Error message will be displayed in logs	The SP requested attribute is not allowed.
200006	The SAML Request Token is missing or invalid.	The SP SAML Request is either missing or invalid.	No SAML Response is generated Error message will be displayed in logs.	The SAML request signature is not valid (it could have been forged).

Error Code	Message	Description	Behaviour	Operator action
200008	Invalid SP Return URL	The SP return URL (assertion consumer URL) is invalid.	No SAML Response is generated Error message will be displayed in logs.	SP return URL is not recognised by the eIDAS-Node Connector configuration
200009	Invalid Relay State.	The SP's Relay State parameter size is higher than allowed.	SAML Response generated with urn:oasis:names:tc:SAML:2.0: status:InvalidAttrNameOrValue Error message will be displayed in logs.	The SP provides an invalid relay state. No action needs to be taken at eIDAS-Node level
200010	Error building the SAML	An error occurs on the SAML token response generation.	SAML Response generated with error Error message will be displayed in logs.	Error generating SAML Response, see log for further associated error.
200011	Attribute List is missing		SAML Response generated with urn:oasis:names:tc:SAML:2.0: status:InvalidAttrNameOrValue Error message will be displayed in logs.	The Attribute list sent is invalid. No action needs to be taken at eIDAS-Node level.
200013	Invalid Signing Certificate	Invalid signing certificate (e.g. self-signed, outdated)	A generic error message is displayed in the browser (not referencing certificate issues)	The signing certificate is invalid, see log for further associated error. No action needs to be taken at eIDAS-Node level.
200014	Bad signing algorithm	The algorithm used to sign the incoming request is not in the whitelist.	A generic error message is displayed in the browser (not referencing certificate issues)	The whitelist contains the allowed algorithms, check the configuration files.

Error Code	Message	Description	Behaviour	Operator action
200015	Signing country of the response differs from that requested	The country of the certificate used to sign the response coming from the eIDAS-Node Proxy Service does not match the citizen country specified in the request	SAML Response generated	The SAML Response is not valid (either a configuration error or a forged response)
200016	Missing or invalid requesterId	The requesterId is needed but not present in request or it is more than 1024 characters long.	A generic error message is displayed in the browser	No action at eIDAS-Node level
201005	Invalid Connector request id	The requestId contained in the response is not the same than the originated one in the request	A security warning is shown in the log.	The SAML request ID is not valid (it could have been forged).

2.3. SP to eIDAS-Node Connector related error codes

The error codes in Table 3 are triggered when the Service Provider contains a frame with the eIDAS-Node Connector.

Note: This configuration needs to have `security.header.XFrameOptions.sameOrigin` parameter set to false in the `eidas.xml` configuration file.

Table 3: SP to eIDAS-Node Connector related error codes

Error Code	Message	Description	Behaviour	Operator action
0000001	QAA Level are missing or max eIDAS-Node level is lower than requested QAA level	The QAA Level is either missing from Service Provider Request (SP) or has a higher value than allowed;	The SP receives a SAML Response with http://www.stork.gov.eu/saml20/ `statusCodes/QAANotSupported`	In the SP, the QAA level needs to be adjusted. This message is deprecated
0000002	SP ID is missing or was not found in SP List	The SP ID is either missing or not found in the trusted Service Provider list.	No SAML Response will be generated. Error message will be displayed in logs.	In the SP – fill in the SP-ID
0000003	SP domain is not trusted or the SP Return URL is not valid	The SP domain is not trusted or the SP return URL is not valid	No SAML Response will be generated. Error message will be displayed in logs.	In the eIDAS-Node- If validation of SP is set (configuration part), fill in the SP domain name trusted list
0000004	Request number is greater than or equal to the maximum number allowed.	The number of requests made by the citizen is higher than allowed.	No SAML Response will be generated. Error message will be displayed in logs.	To prevent Denial of Service attack, the eIDAS-Node has a threshold number of allowed requests per minute, consider increasing this number if needed.
0000005	Selected Country is either invalid or not trusted	The Citizen's country selected is either invalid or was not found	The SP receives a SAML Response with `urn:oasis:names:tc:SAML:2.0:status:RequestDenied` Error message will be displayed in logs.	In the SP, change the SP country.

Error Code	Message	Description	Behaviour	Operator action
0000006	Attribute List is missing	The Personal Attribute list is missing on SP	The SP receives a SAML Response with: `2.0:status: InvalidAttrNameOrValue` Error message will be displayed in logs.	In the SP, check message format.
0000007	SP not allowed to access requested attribute.	Service Provider Requested an attribute that was not granted access.	The SP receives a SAML Response with: `2.0:status: InvalidAttrNameOrValue` Error message will be displayed in logs.	In the SP, an invalid attribute has been sent.
000009	invalid value for Level of Assurance in the request from the Service Provider	The Service Provider has set an unsupported value for the Level of Assurance in its request to eIDAS-Node Connector	No response will be generated.	Retry the request, using a correct value for Level of Assurance.
000010	Invalid SPType	The connector does not support the `SPType` sent by the SP	No response will be generated	Retry the request, using a correct value for `SPType`
000011	Invalid Service Provider Request	The Service Provider Request is invalid	No response will be generated. Error message will be displayed in logs	Retry the request using correct values for mandatory field

2.4.   eIDAS-Node Proxy Service related error codes

Table 4: eIDAS-Node Proxy Service related error codes

Error Code	Message	Description	Behaviour	Operator action
202001	Invalid Destination URL	The Proxy Service/VIdP SAML Request (from Connector) has an invalid value.	SAML Response generated with `urn:oasis:names:tc:SAML:2.0:` `status:Requester` Error message will be displayed in logs.	The Proxy Service receives a SAML request with an invalid assertion Consumer Service URL, check the eIDAS-Node Connector configuration.

Error Code	Message	Description	Behaviour	Operator action
202002	Invalid SAML Request token	The SAML Request received by the eIDAS-Node Proxy Service is invalid.	No SAML Response will be generated.	The token sent by the Connector is invalid when checking for its integrity in the Proxy Service.
202003	Invalid SAML Response token	The SAML Response sent by the eIDAS-Node Proxy Service is invalid.	SAML Response generated with error Error message will be displayed in logs.	The token sent by the Proxy Service is invalid when checking for its integrity in the Connector
202004	Max QAA Level if lower than requested.	The eIDAS-Node Proxy Service/(VIdP) Max QAA Level is lower than requested.	SAML Response generated with http://www.stork.gov.eu/saml20/ `statusCodes/QAANotSupported` Error message will be displayed in logs.	The Quality Assurance level needs to be aligned. This message is deprecated
202005	Invalid Attribute List	The SAML Request's Attribute List is either empty or size higher than allowed.	SAML Response generated with error Error message will be displayed in logs.	The eIDAS-Node Proxy Service receives a SAML request with an invalid attribute list. No action is required.
202010	Mandatory attribute missing	Required Attribute is missing	SAML Response generated with error Error message will be displayed in logs. (e.g.: Missing attributes: `LegalPersonIdentifier`, `LegalName`)	A mandatory attribute is missing in the response. No action is required.
202011	ProxyService SAML Response error	Generic error at Proxy Service level when generating a SAML Response	No SAML Response generated with error Error message will be displayed in logs.	Generic error message displayed in the logs during the process of generating SAML Response in the eIDAS-Node Proxy Service. See previous error in the log to find the cause.

Error Code	Message	Description	Behaviour	Operator action
202013	Invalid Light Response	The eIDAS-Node Proxy Service specific module cannot validate the Light response from IDP	No SAML Response generated with this error, a generic error message will be displayed on the user screen containing the error code and message. Error message will be displayed in logs.	eIDAS-Node Proxy Service received a wrong Light Response from IdP. See previous error in the log to find the cause.
202014	Invalid country code in SAML request	The eIDAS-Node Proxy Service cannot validate the country code contained in the SAML request	SAML Response generated with error Error message will be displayed in logs.	The country code received by the Proxy Service cannot be validated with its configured country list. Check the Proxy Service configuration.
202015	Invalid value for the Level of Assurance	The eIDAS-Node Proxy Service cannot validate the requested level of assurance	SAML Response generated with error Error message will be displayed in logs.	The Level of Assurance needs to be aligned
202016	SPType not consistent	The eIDAS-Node Proxy Service received a request with SPType set, while the metadata of the requester has also SPType set	Error message will be displayed in logs.	SPType should be set either in the request or in the metadata
202017	mandatory SPType not found	The SPType is set neither in the metadata nor in the request	Error message will be displayed in logs.	SPType should be set either in the request or in the metadata
202018	Message format is not recognised or not supported	The SAMLengine located either in the Proxy Service or in the Connector is not configured to receive SAML protocol messages different than eIDAS (e.g. STORK)	SAML response generated with errors. Error message will be displayed in the logs.	The message format is not supported. No action is required.
202019	Incorrect Level of Assurance in IdP response	Level of Assurance in the response from the IdP does not validate with the request made by the proxyService	SAML Response generated with error Error message will be displayed in logs.	No action is required.

Error Code	Message	Description	Behaviour	Operator action
202020	The RequesterId is missing	The requesterId is not present in request While SPType is private and requesterID flag is active	SAML Response generated with error. Error message will be displayed in logs	RequesterId should be present in the request
202021	Level of Assurance in IdP response is not published on the proxyService	Level of Assurance in the response from the IdP does not validate with the levels published in the proxyService metadata	SAML Response generated with error Error message will be displayed in logs.	No action is required.
202022	NameID Format is not supported by the proxyService	The NameID Format requested is not supported by the proxyService	SAML Response generated with error Error message will be displayed in logs.	A supported NameID format should be requested

2.5. SAML messaging and protocol error

Table 5: SAML messaging and protocol error

Error Code	Message	Description	Behaviour	Operator action
203001	Error creating SAML message	Unable to create valid SAML message	This is the default error message for SAML generation message.	See previous error in the log to find the cause
203002	Invalid destination URL	Unable to validate the destination URL in the SAML request	Error message will be displayed in logs. Error will be propagated at upper level	Typical business validation check, check if configuration is complete.
203003	Invalid SP alias	Unable to validate the SP alias with the eIDAS node configuration	No SAML Response is generated Error message will be displayed in logs.	Add in the configuration file of the Node the SP's keystore alias. This must match the SP's keystore alias or use "none" to bypass this validation. This message is deprecated
203004	Destination URL is not valid	The destination URL contained in the request cannot be validated with the configuration	No SAML Response is generated Error message will be displayed in logs.	Typical business validation check, check if configuration is complete.
203005	Configuration problem	The configuration of the SAML engine is invalid	Error message will be displayed in logs. Error will be propagated at upper level	Check configuration
203006	Invalid QAA level	The eIDAS-Node Proxy Service/(VIdP) Max QAA Level is lower than requested.	Error message will be displayed in logs. Error will be propagated at upper level (202004)	Typical business validation check, check if configuration is correct.
203007	Invalid message validation	The SAML message is not valid	Error message will be displayed in logs. Error will be propagated at upper level	Typical business validation check, see log content for further information.

Error Code	Message	Description	Behaviour	Operator action
203008	Invalid attribute value	The attribute value is not valid	Error message will be displayed in logs. Error will be propagated at upper level	Typical business validation check, no specific action needs to be taken.
203011	Invalid Session ID	The session ID is not valid	Error message will be displayed in logs. Error will be propagated at upper level	The session (between SAML request and SAML Response) cannot be reconciled. See log content for further details
203012	Invalid Session	The session is not valid	Error message will be displayed in logs. Error will be propagated at upper level	The session (between SAML request and SAML Response) cannot be reconciled. See log content for further details.
203013	DocType not permitted	XML Doctype is not permitted	Error message will be displayed in logs. Generic SAML error 202002 will be propagated at upper level	XML entities processing Doctype not allowed because it could hide possible XXE attack
203014	Invalid signature certificate	If the check_certificate parameter is set to true in `eidas.xml`, the certificate cannot be self-signed	Error message will be displayed in logs. Error will be propagated at upper level	Self-signed certificates are not permitted in production environment
203015	Invalid signature algorithm	The signature algorithm needs to be validated with a white list in `eidas.xml`	Error message will be displayed in logs. Error will be propagated at upper level	The algorithm list needs to be conform to the regulation
203016	The keystore cannot be accessed	The keystore file configured for the SAMLEngine cannot be read.	No SAML Response is generated	Check the keystore path.

Error Code	Message	Description	Behaviour	Operator action
203017	Certificate not found	The certificate cannot be found in the keystore file configured for the SAMLEngine.	No SAML Response is generated	Typical business validation check, check if configuration is correct. Also used when extracting a certificate from Metadata in validation does not result in a valid or adequate certification for the referenced country.
203018	Certificate not trusted	The certificate is not trusted	No SAML Response is generated	Typical business validation check, check if configuration is correct.
203019	Cannot load the security provider	BouncyCastle security provider cannot be loaded	No SAML Response is generated	Check the classpath of the application.
203020	Invalid Encryption Algorithm	The encryption algorithm is not in the list of accepted algorithms	No SAML Response is generated	Typical business validation check, check if configuration is correct.
203021	Invalid Attribute Set	The attribute set does not include mandatory attributes. For a natural person, the mandatory set is `FamilyName, FirstName,DateOfBirth, PersonIdentifier`. For a legal person the mandatory set consists of `LegalName, LegalPersonIdentifier`.	No SAML Response is generated	Typical business validation check, check if configuration is correct.
203022	Error encrypting the response	The response encryption is mandatory but an error occurred during the encryption (e.g. unknown encryption credential)	No SAML Response is generated	Check if configuration is correct (e.g. if the metadata of response recipient contains a valid encryption credential)

Error Code	Message	Description	Behaviour	Operator action
203023	Error decrypting the response	The response encryption is mandatory but the received response message is not encrypted	No SAML Response is generated	Check the configuration with the sender of the response message
203024	Representative attribute found in Request	Representative attributes cannot be requested. They can only appear in the Response.	Error message will be displayed in logs. Error will be propagated at upper level	Typical business validation check, check if configuration is correct.
203025	Invalid hash algorithm	The hash algorithm is not supported.	Error message will be displayed in logs. Error will be propagated at upper level	The hash algorithm needs to be conform to the regulation
203026	Invalid minimum hash length	The hash length does not meet the minimum length required.	Error message will be displayed in logs. Error will be propagated at upper level	The hash length needs to be conform to the regulation

2.6. Specific VIdP Errors Error Code (deprecated messages)

Table 6: Specific VIdP Errors Error Code (deprecated messages)

	Error Code	Message	Description
SP related error codes	100001	Invalid TransactionID	Invalid TransactionID
	100002	TransactionID not Found	TransactionID not found
	100003	Transaction Ended	Transaction in finished state
	100004	Missing STORK Assertion Parameter Value	Missing STORK Assertion Parameter has value

	Error Code	Message	Description
	100005	Missing STORK Assertion parameter	Missing STORK Assertion Parameter in response
eIDAS-Node Connector related error codes	101001	Connector not Found	eIDAS-Node Connector not found
	101002	Connector not enabled	eIDAS-Node Connector not in enabled state
eIDAS-Node Proxy Service related error codes	102001	Invalid ProxyServiceID	No matching with adopted pattern
	102002	ProxyService not Found	eIDAS-Node Proxy Service not found
	102003	Missing ProxyServiceID Parameter	Request has not eIDAS-Node Proxy Service parameter
	102004	Missing ProxyServiceID Value	eIDAS-Node Proxy Service parameter has not value
	102005	Failed connection to ProxyService	Failed connection to eIDAS-Node Proxy Service
	102006	ProxyService General Application Error	eIDAS-Node Proxy Service General Application Error
	102007	Failed Authentication to ProxyService	Failed Authentication to eIDAS-Node Proxy Service
SPWare	103001	Unknown SPWare	Unknown SPWare
	103002	Not Enabled	SPWare Not Enabled
	103003	Can't connect to SPWare	Cannot connect to SPWare
	103004	SPWare Configuration Error	SPWare Configuration Error

2.7.   Authentication and Authorisation by SP at Middleware

Table 7: Authentication and Authorisation by SP at Middleware

	Error Code	Message	Description
General	108001	SP Failed Authentication	General authentication failed
	108002	SP Failed Authorization	General authorisation failed
	108003	SP not Found	SP not found
	108004	SP Restriction to Service	SP not allowed to use the service called
	108005	SP Restriction to Service Method	SP not allowed to use the service method called
	108006	Missing SP URL for Notifications	No SP notification URL configured
	108007	Access Denied	Access denied
eIDAS-NodeConnector MG and its Component	109001	CCC not specified	No citizen country code specified
	109002	Node country not supported	eIDAS-Node country not supported
	109003	No Node destination found	No eIDAS-Node destination found
	109004	No `AssertionConsumerServiceURL` URL found	ACS URL of eIDAS-Node Connector not defined
	109005	No issuer name for eIDAS-Node Connector configured	eIDAS-Node Connector issuer name not configured
	109006	Error signing request	Credentials for signing AuthnRequest not found or signing error
	109007	Error building StartAuthResponse	StartAuthResponse cannot be built
	109008	ProxyService unknown	eIDAS-Node Proxy Service unknown

	Error Code	Message	Description
	109009	ProxyService response not valid	eIDAS-Node Proxy Service response not valid
	109010	ProxyService assertion not valid	eIDAS-Node Proxy Service assertion not valid
	109011	No response stored for sessionID	No response stored for sessionID

2.8.   SPWare AT MG and its Component

Table 8: SPWare AT MG and its Component

Error Code	Message	Description
110001	Error providing BKU selection	Error providing BKU selection
110002	Error retrieving authentication data from MOA-ID	Error retrieving authentication data from MOA-ID
110003	Error building response	Error building response

2.9.   VIDP and Resources MG and its Component

Table 9: VIDP and Resources MG and its Component

Error Code	Message	Description
111001	Transaction Timeout	Transaction timeout
111002	Internal Error	Internal VIDP error
111003	VIDP Error	VIDP application error