



EECS Rules Fact Sheet 18

TRANSFER ERROR CODES

This Fact Sheet sets out the error codes to be used when rejecting a transfer on import.

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Reason for Issue	New error code
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Version	Date and Author	Description
V5	5 th December 2014 PH Moody	<ul style="list-style-type: none"> Removal of a doubled code: 67 (covered by code 36) Removal of 16 (covered by 56 and 57) Removal of 55 (covered by 74 and 75) Clarify description: 56, 57, 90 Clarify Check: 38, 39, 40, 41 New error codes sent by the hub: 96, 97
V6	23 rd April 2015 Marika Timlin	<ul style="list-style-type: none"> Add the version history table 96, 97: Adding notification about the current status of the HUB implementation of those Error codes Updating the NOTE in the end of the document for identifying the transfers where Hub sent NAK 79: removed text "(check should not be made during transition period)" as the transition period is over Error type change from Message to
V7	Marika Timlin Annie Desaulniers	<ul style="list-style-type: none"> Move the error codes: 12, 19, 20, 21, 22, 23, 27, 28, 29, 30, 31, 37, 40, 46, 47, 48, 49, 50, 71, 80 to obsolete table Move the error codes: 52, 53, 94 to answer error code table Clarified description: 06, 07 (only for registry validation) Corrected spelling mistakes and other small polishing New codes: 13, 15, 51, 54 Modified codes: 10 and 11 Added validation order in HUB (valid after 2015-12-10)
V8	March 2018 Marika Timlin Annie Desaulniers	<ul style="list-style-type: none"> Removal of obsolete codes Addition of references Clarification of text description
V9	June 2019	<ul style="list-style-type: none"> Add error code 33 for Combinations of Technology Code and Fuel Source of Fact sheet 5.



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Error code list

Note: The column **Sender** shows the party who takes responsibility of the check and error sending. Registries are allowed (but not obliged) to send error codes that are sent by the HUB. When the column is 'Registry' and coloured yellow, the registry is obliged to implement a check against the related error when applicable. In addition a check can be recommended but not mandatory for registries when it is written Registry (recommended) and the line is coloured green.

Error code	HUB Validation order	Description	Check	Reference to: SD03 HubCom, EECS rules and Fact sheet (FS)	Sender: HUB/Registry/Registry(recommended)
01	1	Not correctly signed	Encryption/signature	SD03: C2	HUB
02	2	Not correctly encrypted	Encryption/signature	SD03: C2	HUB
03	3	File was not signed and encrypted	Encryption/signature	SD03: C2	HUB
04	4	File was not signed	Encryption/signature	SD03: C2	HUB
05	5	File was not encrypted	Encryption/signature	SD03: C2	HUB
06	10	Sending registry is unknown	Check of sending registry GS1 (FromRegistry).	SD03: B5.3.3	HUB



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Error code	HUB Validation order	Description	Check	Reference to: SD03 HubCom, EECS rules and Fact sheet (FS)	Sender: HUB/Registry/Registry(recommended)
07	11	Receiving registry is unknown	Check of receiving registry GS1 (ToRegistry).	SD03: B5.3.4	HUB
08	18	Sender in message is not the same as sender in XML	<p>Web service: Sender identified by the client PKI certificate has to be the same as the attribute FromRegistry in the message.</p> <p>E-mail: Sender identified by the sender e-mail address in registry configurations in HUB database has to be same as the attribute FromRegistry in the message.</p>	SD03: B5.3.3	HUB
09	8	XML does not validate against XSD	The message (XML) must be valid against given and supported schema (XSD).	SD03: B3.2	HUB
10	9	Message id already present	Checking the uniqueness of the given MessageID.	SD03: B5.3.2	HUB/ Registry (recommended)



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Error code	HUB Validation order	Description	Check	Reference to: SD03 HubCom, EECS rules and Fact sheet (FS)	Sender: HUB/Registry/ Registry(recommended)
13	8	Error in the schema transformation	If transformation between sending and receiving registry schemas is not possible	SD03: B5.2.2	HUB
11	8	Number of certificates bundles exceed the maximum limit	Number of certificate bundles is over the limit set by the AIB Hub Superuser.	SD03: 2.3.5.4	HUB
14	6	Incomplete message (raised when the file is empty)	XML file	SD03: B3	HUB
15	28	Purpose is not valid	Validate that the Purpose given is found from AIB Hub master data and that it is valid at the moment of the transfer (checked against MessageTransmissionTime).	SD03: B5.5.2	HUB
17	19	Message transmission time is incorrect	Validate the format of the transmission time	SD03: B5.3.1	HUB
18	20	Message ID is not correct (15 digits)	Validate that the given MessageID is in correct format.	SD03: B5.3.2	HUB
25	22	SendingAccountID is not a valid code	Validate that the SendingAccountID has valid type.	SD03: B5.4.1	HUB
26	23	ReceivingAccountID is not a valid code	Validate that the SendingAccountID has valid type.	SD03: B5.4.2	HUB
32	24	StartCertificateNumber is greater than EndCertificateNumber	StartCertificateNumber <= EndCertificateNumber	SD03: B5.5.5, B5.5.6	HUB
33	41	Invalid combination of Technology Code and Fuel Source Code	The combination is not permitted in FS5.	FS5	HUB
34	25	IB: Issuing Body ID, is not valid	Validate that the IssuingBody is given in correct format	SD03: B5.5.7	HUB



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Error code	HUB Validation order	Description	Check	Reference to: SD03 HubCom, EECS rules and Fact sheet (FS)	Sender: HUB/Registry/ Registry(recommended)
35	26	Issuing body ID is unknown	Validate that the given IssuingBody is found from AIB Hub master data and that it is valid at the moment of the transfer (Fact Sheet 4)	FS-04 SD03: B5.5.7	HUB
36	27	Production Device ID is not a valid GS1 code	Validate that the given GSRN is correct format.	SD03: B5.5.11	HUB
38	28	Type of installation is not valid	Validate that the given TypeOfInstallation is found from Technology codes Master data of AIB Hub (Fact Sheet 05).	FS-05 SD03: B5.5.19	HUB
39	15	Energy source is not valid	Validate that the given EnergySource is found from Energy source codes Master data of AIB Hub (Fact Sheet 05).	SD03: B5.5.20	HUB
41	29	Code in "EarmarkFlag" is unknown	Validate that the given EarmarkFlag is found from the Earmark master data of AIB Hub (Fact Sheet 03)	FS-03 SD03: B5.5.16	HUB
42	30	Production Device Capacity in kWh is not valid	Validate that the value of elements ElectricalCapacity, MechanicalCapacity or ThermalCapacity will be a digit with maximum of 3 numbers behind decimal point and with "." as decimal point and maximum of 11 characters length decimal point included.	SD03: B5.5.13	HUB



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Error code	HUB Validation order	Description	Check	Reference to: SD03 HubCom, EECS rules and Fact sheet (FS)	Sender: HUB/Registry/Registry(recommended)
43	31	Production period is not valid	Validate that the period is given in correct format and that the associated Issuing body is allowed to issue for the given production period (check against AIB Hub master data and Fact Sheet 4).	FS-04 SD03: B5.5.15	HUB
44	32	Production period start date is after end date	Validate that the ProductionPeriod enddate >= startdate	SD03: B5.5.15	HUB
45	33	UseOfHeat is unknown	Validate that the given code is found from the master data of AIB Hub (Fact Sheet 11).	FS-11 SD03: B5.5.22	HUB
56	-	SendingAccountID is unknown in receiving registry	Receiving registry should validate that the given sending account holder (SendingAccountID) is a valid account holder.	SD03: B5.4.1	Registry (recommended)
57	-	ReceivingAccountID is unknown in receiving registry	Receiving registry validates that the given receiving account holder (ReceivingAccountID) is valid in their registry.	SD03: B5.4.2	Registry
64	34	Number of Certificates is invalid	Validate that the given number of the certificates (NumberOfCertificates) corresponds to the Sum of ((EndCertificateNumber - StartCertificateNumber) + 1) for all the bundles.	B5.4.3, B5.5.5, B5.5.6	HUB



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Error code	HUB Validation order	Description	Check	Reference to: SD03 HubCom, EECS rules and Fact sheet (FS)	Sender: HUB/Registry/Registry(recommended)
65	-	Certificate number already exists in receiving registry	<p>Registry must validate that there are no duplicates within each incoming transfer.</p> <p>Registry must validate that the incoming certificates are not found in their registry with status Active, Expired, Cancelled, Pending or Exported.</p> <p>Furthermore, not only the first and last certificate number should be checked, but also the numbers in between.</p> <p>AIB Hub validates whether there are any duplicates within each incoming transfer.</p>	SD03: B5.5.5, B5.5.6	HUB/Registry
68	35	Certificate issue date is not in the past	Certificate issue date (IssuedDate) has to be less than the date from the MessageTransmissionTime.	SD03: B5.5.10	HUB



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Error code	HUB Validation order	Description	Check	Reference to: SD03 HubCom, EECS rules and Fact sheet (FS)	Sender: HUB/Registry/Registry(recommended)
74	36	Product status is not valid	<p>Validate that the ProductStatus is valid and found from the Master data of the AIB Hub. Validity is checked against a date from the MessageTransmissionTime.</p> <p>Multiple nodes are allowed.</p> <p>In addition it is validated that each of the certificate bundles have to have at least one standalone product status (GO or "ICS:EECSDISCLOSURE") (Fact Sheet 17)</p>	<p>FS-17</p> <p>SD03: B5.5.3</p>	HUB
75	16	Product type is not valid	<p>Validate that the given ProductType is found from the master data of the AIB Hub and that it is valid at the time of the transfer.</p> <p>Multiple nodes are allowed.</p>	SD03: B5.5.4	HUB
76	37	Country of issue is not valid	<p>Validate that the given CountryOfIssue is found from the master data of the AIB.</p>	SD03: B5.5.9	HUB
77	14	Production Device Capacity is missing	<p>Validate that at least one of three elements (ElectricalCapacity, MechanicalCapacity, ThermalCapacity) is filled.</p> <p>NOTE: The mandatory of ElectricalCapacity is checked with the validation 85 in AIB Hub.</p>	SD03: B5.5.13	HUB



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Error code	HUB Validation order	Description	Check	Reference to: SD03 HubCom, EECS rules and Fact sheet (FS)	Sender: HUB/Registry/Registry(recommended)
78	38	Date operational is not valid	Validate that given DateOperational has correct format and that it is less than date from the MessageTransmissionTime.	SD03: B5.5.14	HUB
79	39	Location of the production device and/or address is required	<p>Validate that at least one of ProductionDeviceCoordinates and ProductionDeviceAddress is given and that all the attributes are given and not empty.</p> <p>If the ProductionDeviceCoordinates is filled, the attribute CoordinateCode has to match a valid item in the AIB Hub master data. Validity is checked against a date from the MessageTransmissionTime. (Fact Sheet 16).</p>	FS-16 SD03: B5.5.21	HUB
81	21	Competent Authority is unknown	Validate that the given CompetentAuthority match a valid item in the AIB Hub master data. Validity is checked against a date from the MessageTransmissionTime. (Fact Sheet 4)	FS-04 SD03: B5.5.8	HUB



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Error code	HUB Validation order	Description	Check	Reference to: SD03 HubCom, EECS rules and Fact sheet (FS)	Sender: HUB/Registry/Registry(recommended)
82	40	Production period dates is not in the past	Validate that the ProductionPeriod.startdate and ProductionPeriod.enddate are less than transfer date (MessageTransmissionTime).	SD03: B5.5.15	HUB
85	17	Missing required field (@1)	Validate that all the certificate mandatory fields are given and not empty. The error description will tell the elements missing.	SD03: B5.2.	HUB
89	-	NAK is sent manually by HUB superuser	Error code to indicate that the NAK was sent by Hub Superuser from AIB Hub userinterface manually to solve a problem (e.g. timeout).	-	HUB
90	-	Rejected due to expired certificates	Registry should validate that the incoming certificates are still valid according to their expiry rules set in the domain protocol. If expired certificates are accepted, the system is still in compliance with the EECS-rules as long as the expired certificates are not re-transferred. However, it is advisable to block expired certificates.	EECS Rules: C5.2.3, C6.1.1	Registry



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Error code	HUB Validation order	Description	Check	Reference to: SD03 HubCom, EECS rules and Fact sheet (FS)	Sender: HUB/Registry/ Registry(recommended)
91	-	Rejected due to provisions of national legislation or regulations	Registry should validate that they import only the certificates they are allowed according to National legislation. E.g. if Fossils are not allowed then those should be blocked on import.	2.3.2	Registry
92	12	Sending registry is not allowed to export certificates	Validate that the sending registry is allowed to export certificates. Validation done against AIB Hub master data.	-	HUB
93	13	Receiving is not allowed to import certificates	Validate that the Receiving registry is allowed to import certificates. Validation done against AIB Hub master data.	-	HUB
95	7	XSD version (@1) is not a valid version	Validate that the given schemaLocation contains one of the supported schemas (B3.2.3).	SD03: B3.2	HUB
96	-	SendingAccountID is not assigned to the sending Registry in the Central Account Holders Database	Validate that the SendingAccountID is valid account in Account Holders Database	New. Not described yet.	HUB (implemented with AHDB)
97	-	ReceivingAccountID is not assigned to the receiving Registry in the Central Account Holders Database	Validate that the ReceivingAccountID is valid account in Account Holders Database	New. Not described yet.	HUB (implemented with AHDB)
99	-	Unspecified	Other error. If webservice, it is recommended to give more details in the AdditionalInfo field.	-	HUB/Registry



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Error codes for Answer messages (only in UI)

NOTE: The below error codes are not to be send within answer message – but are only shown in the HUB user interface!

Error code	Description	Check	Reference to SD03	Error type	Sender: HUB/Registry
A51	Transfer Message ID referred in answer must be in the HUB database	Unknown message ID	New. Not described yet	Shown only in Hub user interface	HUB
A52	r:message, Message Validation Flag, is not correct	Check the Message Tag from the answer	B5.5.4	Shown only in Hub user interface	HUB
A53	Validation flag is not correct in the tag "Content"	The value in the tag "content" in the "answerv70_xsd" can only be "true" or "false"	B5.5.4	Shown only in Hub user interface	HUB
A54	There must be only one AK/NAK delivered per Transfer Message ID	An acknowledgement answer was already processed	New. Not described yet	Shown only in Hub user interface	HUB
A94	AK and NAK are the only accepted return codes	Another code than "AK" is used as return code	C2.1.8	Shown only in Hub user interface	HUB

Validation codes for Fraud detection

NOTE: The below codes are only indication for possible Fraud, and are not blocking any transfer.

Error code	Description	Check	Reference	Error type	Sender
FR01	Volume of certificates in the message exceeds an average (daily) load for an account holder.	Validate the incoming transfer against the average load of the account holder and if the incoming transfer volume exceeds more than set in the configuration, the warning message will be given.	-	Warning - Shown only in Hub user interface	HUB
FR02	Volume of certificates in the message exceeds an average (daily) load for a combination of account holders	Validate the incoming transfer against the average load of the set of account holders and if the incoming transfer volume exceeds more than set in the configuration, the warning message will be given.	-	Warning - Shown only in Hub user interface	HUB
FR03	Volume of certificates in the message exceeds an average (daily) load for a registry	Validate the incoming transfer against the average load of the registry and if the incoming transfer volume exceeds more than set in the configuration, the warning message will be given.	-	Warning - Shown only in Hub user interface	HUB
FR04	Volume of certificates in the message exceeds an average (daily) load for a combination of registries	Validate the incoming transfer against the average load of the set of registries and if the incoming transfer volume exceeds more than set in the configuration, the warning message will be given.	-	Warning - Shown only in Hub user interface	HUB

Obsolete or unknown Error codes

If the Hub receives an unknown or obsolete code, it will keep the transfer pending and won't forward the NAK to the sender. The Superuser will investigate and close the transfer.