



**Annex 1 to the
Specification**

EBICS

***(Electronic Banking Internet
Communication Standard)***

Version 2.5

Final Version

This specification is valid from July 1st 2012.

Amendment history

The following table provides an overview of the significant amendments that were made from the revision document 2.4.2 to the full version 2.5.

Chapter	Date of Decision	Type *	Description	Effective from
2		A	Amendment of meaning und recommended measure of return code number 09 1 1 21 (because of the assignment of the order number by the bank server starting with EBICS version 2.5) Correction of the symbolic name of return code number 09 1 0 07 (correction of a copy error from an previous version)	2.5
3		A	Amendment of meaning und recommended measure of return code number 09 1 1 14 and 09 1 1 15 (because of the assignment of the order number by the bank server starting with EBICS version 2.5)	2.5

* E = Error; A = Amendment; C = Clarification; Ext = Extension; D = Deletion

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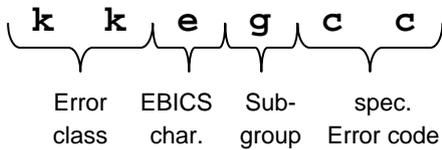
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1 Format

An EBICS return code is a six-digit chain of characters that exclusively contains numbers (data type token, length=6, pattern="\d{6}"). It is composed as follows:



The return codes are divided into technical return codes (ebicsResponse/header/mutable/ReturnCode) and business related return codes (ebicsResponse/body/ReturnCode) that use the same value ranges:

Error class	Meaning	Effect on current transaction
00	Information	none
01	Note	none
03	Warning	none
06	Error (recoverable)	none, or increase of recovery counter
09	Error (non-recoverable)	Cancellation

EBICS char.	Meaning
0	No EBICS-specific ReturnCode (except "EBICS_OK")
1	EBICS-specific ReturnCode

Sub-group	Meaning
0	no specific subgroup
1	Transaction administration (technical)
2	Key-Management (business related)
3	Pre-validation (business related)

Old ReturnCodes that are not defined for EBICS with a new number can be embedded in the schema without conflicting with the new codes. The last three positions ("gcc") of the EBICS ReturnCode schema are available for this reason, the EBICS character MUST then be set to "0". The error class CAN be adapted to the semantics of the respective imported ReturnCode.

A short English text is defined for each technical EBICS ReturnCode. In the case of an EBICS response from the server, the XML field ebicsResponse/header/mutable/ReportText MUST be filled out with the symbolic names in square brackets, followed by a space and the short text. So, for ReturnCode 012000: "[EBICS_DOWNLOAD_POSTPROCESS_DONE] Positive acknowledgement received".

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In the case of error class 06, the EBICS transaction can be forwarded after the error is corrected. In this case, the generally-valid measure is also forwarding the transaction after correction of the error.

In the case of errors of error class 09, EBICS transactions are cancelled at the bank's end. In this case, the generally-valid measure is repetition of the entire transaction after removal of the cause of error.

Special measures for individual error codes are listed in the following tables.

Error code 09 1 1 13 (general technical error) and 09 1 1 16 (general business-related error) should be applied if an error is identified for which no particular return code is available. In a case like this, however, we would prefer you to report the error to info@ebics.de giving us the opportunity of including the error in one of the next versions of this specification.

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2 Technical ReturnCodes

kk	e	g	cc	Symbolic name	Short text	Meaning	Recommended measure
00	0	0	00	EBICS_OK	OK	No technical errors occurred during processing of the EBICS request	
01	1	0	00	EBICS_DOWNLOAD_POSTPROCESS_DONE	Positive acknowledgement received	After receipt of a positive acknowledgement the download task was finished at the server's end and the EBICS transaction ended.	
01	1	0	01	EBICS_DOWNLOAD_POSTPROCESS_SKIPPED	Negative acknowledgement received	After receipt of a negative acknowledgement the transaction was ended at the server's end without finishing the download task	
01	1	1	01	EBICS_TX_SEGMENT_NUMBER_UNDERRUN	Segment number not reached	The total number of segments transmitted during transaction initialisation was not reached (i.e. the attribute @lastSegment was set to "true" before the specified segment number was reached)	
03	1	0	01	EBICS_ORDER_PARAMS_IGNORED	Unknown order parameters are ignored	E.g. OrderParams for Upload specified	
06	1	0	01	EBICS_AUTHENTICATION_FAILED	Authentication signature error	Verification of the authentication signature was not successful	
06	1	0	02	EBICS_INVALID_REQUEST	Message not EBICS-conformant	The syntax of the received message does not conform with EBICS specifications	
06	1	0	99	EBICS_INTERNAL_ERROR	Internal EBICS error	An internal error occurred during	

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kk	e	g	cc	Symbolic name	Short text	Meaning	Recommended measure
						processing of the EBICS request	
06	1	1	01	EBICS_TX_RECOVERY_SYNC	Synchronisation necessary	Recovery of the transaction requires synchronisation between the customer system and the bank system	Continuation of the transaction using the recovery point from the bank system's EBICS response
09	1	0	02	EBICS_INVALID_USER_OR_USER_STATE	Subscriber unknown or subscriber state inadmissible	Either the initiating party is not known to the bank system or the subscriber state that is stored in the bank of the initiating party is inadmissible with regard to the order type	
09	1	0	03	EBICS_USER_UNKNOWN	Subscriber unknown	The initiating party is not known to the bank system	
09	1	0	04	EBICS_INVALID_USER_STATE	Subscriber state unknown	The subscriber state of the initiating party that is stored in the bank system is inadmissible with regard to the order type	
09	1	0	05	EBICS_INVALID_ORDER_TYPE	Order type inadmissible	The order type is unknown or not approved for use with EBICS	
09	1	0	06	EBICS_UNSUPPORTED_ORDER_TYPE	Order type not supported	The selected order type is optional with EBICS and is not supported by the financial institution	
09	1	0	07	EBICS_DISTRIBUTED_SIGNATURE_» AUTHORISATION_FAILED	Subscriber possesses no authorisation of signature for the referenced order in the VEU administration (Request recent	Retrieve recent signature folder with permissible orders of order type HVU (or HVZ, respectively)	

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kk	e	g	cc	Symbolic name	Short text	Meaning	Recommended measure
					signature folder)		
09	1	0	08	EBICS_BANK_PUBKEY_UPDATE_REQUIRED	Bank key invalid	The public bank key that is available to the subscriber is invalid	Download of the current bank key via HPB
09	1	0	09	EBICS_SEGMENT_SIZE_EXCEEDED	Segment size exceeded	The specified size of an upload order data segment (in the case of H003: 1 MB) has been exceeded	
09	1	0	10	EBICS_INVALID_XML	XML invalid according to EBICS XML schema	XML validation with EBICS schema failed or XML not well-formed	
09	1	0	11	EBICS_INVALID_HOST_ID	The transmitted HostID is unknown on the bank's side	The transmitted HostID is unknown on the bank's side. The use of this code is only provided for the HEV request	Check the used HostID and correct it. Consultation with the bank, if necessary
09	1	1	01	EBICS_TX_UNKNOWN_TXID	Transaction ID invalid	The supplied transaction ID is invalid	
09	1	1	02	EBICS_TX_ABORT	Transaction cancelled	The transaction was cancelled at the server's end since recovery of the transaction is not supported or is no longer possible due to the recovery counter being too high	
09	1	1	03	EBICS_TX_MESSAGE_REPLAY	Suspected Message replay (wrong time/time zone or nonce error)	A message replay has been identified (Nonce/Timestamp pair doubled) or the difference of clock time between client and server exceeds the (parametrisable) tolerance limit	Generation of a new Nonce value and updating the Timestamp
09	1	1	04	EBICS_TX_SEGMENT_NUMBER_EXCEEDED	Segment number exceeded	The total segment number from transaction initialisation was exceeded, i.e. the attribute @lastSegment was set to "false"	

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kk	e	g	cc	Symbolic name	Short text	Meaning	Recommended measure
						when the last segment was transmitted	
09	1	1	12	EBICS_INVALID_ORDER_PARAMS	Invalid order parameters	The content of OrderParams is invalid, e.g. if starting off behind the end in case of StandardOrderParams, or, in case of HVT, fetchOffset is higher than NumOrderInfos (total number of particular order information of an order)	
09	1	1	13	EBICS_INVALID_REQUEST_CONTENT	Message content semantically not compliant to EBICS	The received message complies syntactically EBICS XML schema, but not semantically to the EBICS guidelines, e.g. IZV upload with UZHNN requires NumSegments = 0	
09	1	1	17	EBICS_MAX_ORDER_DATA_SIZE_EXCEEDED	The bank system does not support the requested order size	Upload or download of an order file of improper size (e.g. for HVT, IZV, STA)	
09	1	1	18	EBICS_MAX_SEGMENTS_EXCEEDED	Submitted number of segments for upload is too high	The bank system does not support the specified total number of segments for upload	
09	1	1	19	EBICS_MAX_TRANSACTIONS_EXCEEDED	Maximum number of parallel transactions per customer is exceeded	The maximum number of parallel EBICS transactions defined in the bank system for the customer has been exceeded	
09	1	1	20	EBICS_PARTNER_ID_MISMATCH	The partner ID (=customer ID) of the ES file is not identical to the partner ID	On verifying the submitted signatures a partner ID was found in the document UserSignatureData that is not identical to the subscriber's partner ID in the request header	

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kk	e	g	cc	Symbolic name	Short text	Meaning	Recommended measure
					(=customer ID) of the submitter.		
09	1	1	21	EBICS_ INCOMPATIBLE_ ORDER_ ATTRIBUTE	The specified order attribute is not compatible with the order in the bank system	<p>Case 1) File with order attribute "DZHNN" or "OZHNN" submitted with an orderId or</p> <p>Case 2) File with order attribute "UZHNN" submitted without an orderId or with orderID which is already used for "DZHNN"</p> <p>File with order attribute "DZHNN" submitted with an orderId</p>	<p>Case 1) Submit file without orderId, the bank server will assign a new orderId automatically</p> <p>Case 2) Submit file with an orderId for matching with existing order with order attributes "OZHNN"</p>

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3 Business related ReturnCodes

kk	e	g	cc	symbolic name	Meaning	Recommended measure
00	0	0	00	EBICS_OK	No business related errors occurred during processing of the EBICS request	
01	1	3	01	EBICS_NO_ONLINE_CHECKS	Optional preliminary verification is not supported by the bank system	
09	1	0	01	EBICS_DOWNLOAD_SIGNED_ONLY	The bank system only supports bank-technically signed download order data for the order in question	Request download data with order attribute "OZHNN"
09	1	0	02	EBICS_DOWNLOAD_» UNSIGNED_ONLY	The bank system only supports unsigned download order data for the order in question	Send download data with order attribute "DZHNN"
09	0	0	03	EBICS_AUTHORISATION_ORDER_TYPE_FAILED	The subscriber is not entitled to submit orders of the selected order type	
09	0	0	04	EBICS_INVALID_ORDER_DATA_FORMAT	The transferred order data does not correspond with the specified format	
09	0	0	05	EBICS_NO_DOWNLOAD_DATA_AVAILABLE	No data are available at present for the selected download order type	Request via HAA (if supported) for which order types data is ready for download
09	0	0	06	EBICS_UNSUPPORTED_REQUEST_FOR_ORDER_INSTANCE	The bank system does not support the selected order request for the concrete business transaction associated with this order	HVT: Set attribute @completeOrderData="true" to receive the complete order file instead of the order details

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kk	e	g	cc	symbolic name	Meaning	Recommended measure
09	1	1	05	EBICS_RECOVERY_NOT_SUPPORTED	The bank system does not support Recovery	
09	1	1	11	EBICS_INVALID_SIGNATURE_FILE_FORMAT	The submitted ES files do not comply with the defined format	The ES file cannot be parsed syntactically (no business-related verification!)
09	1	1	14	EBICS_ORDERID_UNKNOWN	The submitted order number is unknown	HVE, HVS, HVD, HVT with unknown combination partner ID (=customer ID)/order type/order ID Other Upload Order Types with order attributes "UZHNN" : Bank server doesn't know the submitted order number
09	1	1	15	EBICS_ORDERID_ALREADY_EXISTS	The submitted order number is already existent	A signature file upload request with order attributes "UZHNN" contains an orderID that references an order with invalid processing state: The signature cannot be assigned to the order, because the order has already been fully authorised or rejected.
09	1	1	16	EBICS_PROCESSING_ERROR	During processing of the EBICS request, other business-related errors have occurred	The message was correct. However, it could not be processed due to some other business-related error
09	1	2	01	EBICS_KEYMGMT_UNSUPPORTED_VERSION_SIGNATURE	The algorithm version of the bank-technical signature key is not supported by the financial institution (order types INI, HCS and PUB)	INI : Supported algorithm versions can be found in the EBICS order forms PUB/HCS : Permitted algorithm versions can be found in the bank parameters (HPD)

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09	1	2	02	EBICS_KEYMGMT_UNSUPPORTED_VERSION_AUTHENTICATION	The algorithm version of the authentication key is not supported by the financial institution (order types HIA, HSA and HCA)	HIA, HSA: Supported algorithm versions can be found in the EBICS order forms HCA/HCS: Permitted algorithm versions can be found in the bank parameters (HPD)
09	1	2	03	EBICS_KEYMGMT_UNSUPPORTED_VERSION_ENCRYPTION	The algorithm version of the encryption key is not supported by the financial institution (order types HIA, HSA and HCA) This error message is returned particularly when the process ID E001 is used which is invalid from schema version H003 on	HIA, HSA: Supported algorithm versions can be found in the EBICS order forms HCA/HCS: Permitted algorithm versions can be found in the bank parameters (HPD)
09	1	2	04	EBICS_KEYMGMT_KEYLENGTH_ERROR_SIGNATURE	The key length of the bank-technical signature key is not supported by the financial institution (order types INI and PUB or HCS)	Ask the financial institution for information on permitted key lengths, regenerate key
09	1	2	05	EBICS_KEYMGMT_KEYLENGTH_ERROR_AUTHENTICATION	The key length of the authentication key is not supported by the financial institution (order types HIA, HSA, HCS and HCA)	Ask the financial institution for information on permitted key lengths, regenerate key
09	1	2	06	EBICS_KEYMGMT_KEYLENGTH_ERROR_ENCRYPTION	The key length of the encryption key is not supported by the financial institution (order types HIA, HSA, HCS and HCA)	Ask the financial institution for information on permitted key lengths, regenerate key

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09	1	2	07	EBICS_KEYMGMT_NO_X509_SUPPORT	The bank system does not support the evaluation of X.509 data (order types INI, HIA, HSA, PUB, HCA, HCS)	Embed key in XML structure of type ebics:» PublicKeyValueType
09	1	2	08	EBICS_X509_CERTIFICATE_EXPIRED	certificate is not valid because it has expired	Reject of the Request is mandatory if X509 v3 is supported. The user state remains unchanged.
09	1	2	09	EBICS_X509_CERTIFICATE_NOT_VALID_YET	certificate is not valid because it is not yet in effect	Reject of the Request is mandatory if X509 v3 is supported. The user state remains unchanged.
09	1	2	10	EBICS_X509_WRONG_KEY_USAGE	When verifying the certificate key usage, it has been detected that the certificate has not been issued for the current use. (only applies when key management order types are used)	'Key Usage' is an optional X509 certificate extension field in version 3. However, if the key usage field is not set, this error code is returned. No error code is returned if the key usage field contains more than the correct usage. Reject of the Request is mandatory if X509 v3 is supported. The user state remains unchanged.
09	1	2	11	EBICS_X509_WRONG_ALGORITHM	When verifying the certificate algorithm, it has been detected that the certificate has not been issued for the current use. (only applies when key management order types are used)	Reject of the Request is mandatory if X509 v3 is supported. The user state remains unchanged.
09	1	2	12	EBICS_X509_INVALID_THUMBPRINT	Reserved for next version	

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09	1	2	13	EBICS_X509_CTL_INVALID	When verifying the certificate, it has been detected that the certificate trust list (CTL) is not valid because, for example, it has expired.	N/A if self-signed certificates are used. Reject of the Request mandatory if certificates of a CA are used
09	1	2	14	EBICS_X509_UNKNOWN_CERTIFICATE_AUTHORITY	The chain cannot be verified due to an unknown certificate authority (CA)	If OrderType = INI, PUB or HCS and X509v3 supported: The Reject of the Request is mandatory, if signature class <> "T" If OrderType = FUL and X509v3 supported: The Reject of the Request is mandatory, if OrderAttributes = "OZHNN"
09	1	2	15	EBICS_X509_INVALID_POLICY	Reserved for next version	N/A if self-signed certificates are used. Reject of the Request is mandatory if certificates of a CA are used.
09	1	2	16	EBICS_X509_INVALID_BASIC_CONSTRAINTS	Reserved for next version	
09	1	2	17	EBICS_ONLY_X509_SUPPORT	With respect to certificates, the bank system only supports the evaluation of X.509 data	Message relates to the EBICS server implementation
09	1	2	18	EBICS_KEYMGMT_DUPLICATE_KEY	During the key management request, it has been detected that the key or certificate sent for authentication or for encryption is the same as the signature key/certificate (INI, HIA, PUB, HCS,..)	Reject of the Request is mandatory. Change the key or certificate and to do a new request of key management

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09	1	2	19	EBICS_CERTIFICATES_VALIDATION_ERROR	The server is unable to match the certificate (ES key) with the previously declared information automatically.	<p>H3K: Reject of the request is mandatory. The state of the client remains the same (NEW).</p> <p>1) Retry a H3K request with a correct certificate (for ES) issued by a CA or 2) Process INI / HIA for initialisation</p>
09	1	3	01	EBICS_SIGNATURE_VERIFICATION_FAILED	Verification of the ES has failed In the case of asynchronously-implemented orders, the error can occur during preliminary verification.	Generate correct bank-technical signature and regenerate transaction
09	1	3	02	EBICS_ACCOUNT_AUTHORISATION_FAILED	Preliminary verification of the account authorisation has failed	
09	1	3	03	EBICS_AMOUNT_CHECK_FAILED	Preliminary verification of the account amount limit has failed	
09	1	3	04	EBICS_SIGNER_UNKNOWN	A signatory of the order in question is not a valid subscriber.	
09	1	3	05	EBICS_INVALID_SIGNER_STATE	The state of a signatory in the order in question is not admissible.	
09	1	3	06	EBICS_DUPLICATE_SIGNATURE	The signatory has already signed the order on hand.	