



**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 |

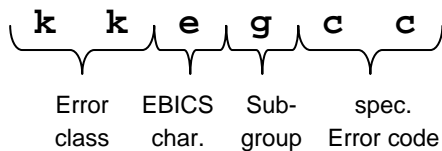
* E = Error; A = Amendment; C = Clarification; Ext = Extension; D = Deletion

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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.

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 | Case 1) File with order attribute "DZHNN" or "OZHNN" submitted with an orderId or Case 2) File with order attribute "UZHNN" submitted without an orderId or with orderID which is already used for "DZHNN" File with order attribute "DZHNN" submitted with an orderId | Case 1) Submit file without orderId, the bank server will assign a new orderId automatically Case 2) Submit file with an orderId for matching with existing order with order attributes "OZHNN" |

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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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| kk | e | g | cc | symbolic name | Meaning | Recommended measure |
|----|---|---|----|--|---|---|
| 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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| kk | e | g | cc | symbolic name | Meaning | Recommended measure |
|----|---|---|----|--------------------------------------|--|---|
| 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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| kk | e | g | cc | symbolic name | Meaning | Recommended measure |
|----|---|---|----|--|--|---|
| 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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| kk | e | g | cc | symbolic name | Meaning | Recommended measure |
|----|---|---|----|-------------------------------------|---|---|
| 09 | 1 | 2 | 19 | EBICS_CERTIFICATES_VALIDATION_ERROR | The server is unable to match the certificate (ES key) with the previously declared information automatically. | H3K: Reject of the request is mandatory. The state of the client remains the same (NEW). 1) Retry a H3K request with a correct certificate (for ES) issued by a CA or 2) Process INI / HIA for initialisation |
| 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. | |