

iBiznes24 Connect

Technical documentation

1	Introduction.....	3
2	Certificates.....	5
2.1	Transport certificates	5
2.2	Application certificate	5
3	Service	6
3.1	Introduction.....	6
3.2	General structure	6
3.3	Headers.....	6
3.4	List of services	7
3.5	Transactions – transfer of payment batches.....	7
3.6	Connect Common Types and Connect Transaction Common.....	8
3.7	Error messages returned from Connect services	8
3.8	Authentication data.....	9
4	Services.....	12
4.1	GetAcct – getting account details	14
4.2	GetAcctHistory – getting account history	19
4.3	GetAccStmtList – getting account statement list	38
4.4	GetStatement – getting statement	40
4.5	GetExTables – getting exchange tables	41
4.6	GetExRates – getting exchange rates	43
4.7	GetAcctEINHistory – getting EIN history	45
4.8	VerifyWhitelist – verification against list of VAT taxpayers	61
4.9	InitAcceptance – initiating generation of authorization code	64
4.10	VerifyAcceptance – verification of response from the authorization tool.....	65
4.11	ImportTransactions – transfer of a batch of transactions for execution	67
4.12	GetImportStatus – getting import status	91
4.13	GetTransactionsStatus – getting transaction import status	93
4.14	CancelTransactions – cancellation of transactions transferred for execution/ accepted.....	96
4.15	GetTransactionDetails – getting transaction details	98
4.16	GetRepTransactionOrderConfirmation – transaction report.....	101

1 Introduction

iBiznes24 Connect ("Connect service") enables communication between the customer's financial and accounting systems and the bank's transactional systems.

It enables its users to get:

- account information,
- history of transactions (including EIN, i.e. Electronic Identification of Receivables),
- account statements, e.g. in formats: PDF, CSV, XML, MT940,
- information about bank's exchange rates.

Its users can also make money transfer instructions, set up transfer batches or bigger batches of batch payments:

- domestic,
- tax and social security,
- cross-border (SWIFT / SEPA),
- direct debits between the user's own accounts and to third parties.

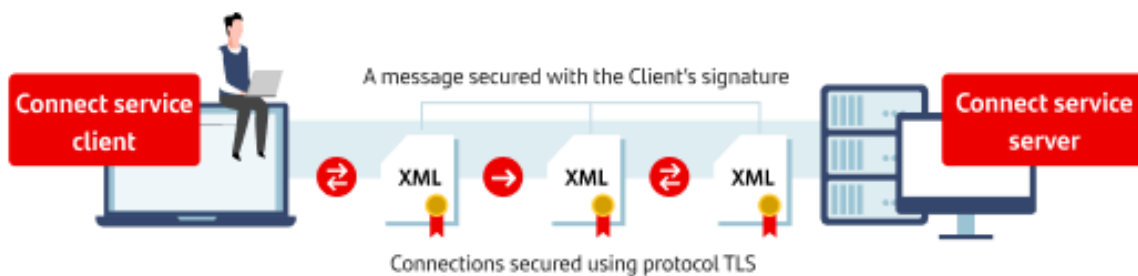
This document describes the structures and formats of data exchanged between Connect service and the bank.

This document includes:

- **Attachment 1 (contains WSDL and XSD files),**
- **Attachment 2 (provides exemplary signature for messages and transactions),**
- **Attachment 3 (provides Instructions – how to generate certificates),**
- **Attachment 4 (presents exemplary requests and responses).**

The service complies with XML ISO 20022 and with the Recommendation concerning standards for exchange of financial data between banks and customers in Poland issued by the Polish Bank Association (ZBP).

The diagram below illustrates communication between customers and the bank:



TLS encryption ensures that data transmitted between the user's device and the bank is encrypted using the required TLS 1.2. Each message sent to Connect service should be signed (certificate). Attachment 3 says how to generate certificates and shows the relevant screens.

2 Certificates

Attachment 3 says how to generate certificates step by step with the use of Java Keytool.

2.1 Transport certificates

You have to have a transport certificate authenticated by us to be able to securely connect with our system providing access to Connect service.

How to generate and get transport certificate from the bank?

- You should generate a pair of keys – one private, one public – which is saved in the local repository of keys.
- Once the pair of keys has been generated, you will have to create Certificate Signing Request and transfer it to our bank through iBiznes24.
- Based on the received CSR, our bank will issue a certificate signed by the certificate authority (CA) to be imported into their repository.
- You will read the certificate into the application used to connect with the bank.

When generating the keys, the user will be asked to provide:

- key repository password,
- name and surname – please **provide your company's NIK**,
- name of organizational unit,
- name of organization,
- town name,
- name of state or province (in Poland: provinces will apply),
- country code,
- password for the pair of keys.

Alias should not contain spaces and diacritical marks.

2.2 Application certificate

To increase the level of security, each message sent by you will have to be signed by application certificate. The certificate should be transmitted to the bank through its import by any user authorized to manage certificates in iBiznes24. The received certificate should be loaded into the customer's application used to sign messages transferred to the bank.

3 Service

3.1 Introduction

The exchange of data between the bank and customers in Connect is based on messages in XML file format and web-services technology.

Web-services protocol: **Simple Object Access Protocol (SOAP) version 1.1.**

Transport protocol: **Hypertext Transfer Protocol (HTTP) version 1.1.**

3.2 General structure

Each service consists of a request and a response. Each request may additionally contain a header identifying the manufacturer and the ERP system.

Each request includes three elements:

- authentication data,
- message identifier,
- request fields.

Each response, on the other hand, consists of two main elements:

- message identifier,
- response fields.

Service specification is provided in the definition of XSD and WSDL files, which are required in order to generate the customer code. It specifies what the message looks like, including field type, likelihood of occurrence, whether it is mandatory, sequence etc. All **WSDL** and **XSD** files for each service are provided in Attachment 1.

The definitions of fields related to individual services specified in this document complement the specification. Examples of requests can be found in Attachment 4 providing examples of requests and responses.

Requests should be queued to make sure that two or more requests are not sent at the same time.

3.3 Headers

To identify and monitor requests sent to the bank, in all requests that you send you can add header elements specifying the names of:

- ERP system (ApplicationName),
- producer (ProducerName).

Example of a header for GetAcctHistory:

Headers: {Accept=[*/*], ApplicationName=[ERP system name], ProducerName=[producer name], SOAPAction=["GetAcctHistory"]}

3.4 List of services

This document says how the following Connect services work:

- getting account details – **GetAcct service**,
- getting account history – **GetAcctHistory service**,
- getting the list of statements – **GetAccStmtList service**,
- getting statements – **GetStatement service**,
- getting the list of exchange rate tables – **GetExTables service**,
- getting exchange rate table – **GetExRates service**,
- getting history of EIN transactions – **GetAcctEINHistory service**,
- verifying whitelist – **VerifyWhitelist service**.

Connect services related to transactions:

- instruction to generate authorisation code – **InitAcceptance service**,
- verification of acceptance response – **VerifyAcceptance service**,
- transfer of a batch of transactions for execution – **ImportTransactions service**,
- getting payment batch import status – **GetImportStatus service**,
- get transaction import log – **GetTransactionsStatus service**,
- cancellation of accepted transactions – **CancelTransactions service**,
- details of accepted transactions – **GetTransactionDetails service**,
- transaction report – **GetRepTransactionOrderConfirmation service**.

Use the services via [https://b2b.ibiznes24.pl/\[name of service\]](https://b2b.ibiznes24.pl/[name of service])

e.g. <https://b2b.ibiznes24.pl/ImportTransactions>.

3.5 Transactions – transfer of payment batches

Multi-level option (approval based on authorisation tool)

- this option is mandatory if the following authorisation tool is used: **smsCode**; it can also be applied to: **Token CR** (physical one-time code generator),
- transfer of a batch of transactions executed at stages for the services:
 - preparation of signature (use of InitAcceptance+VerifyAcceptance services (with respect to smsCodes) or VerifyAcceptance (with respect to Token CR – physical one-time code generator),
 - transfer of a batch (use of ImportTransactions service and signature identifier returned by VerifyAcceptance service),

3.6 Connect Common Types and Connect Transaction Common

Definitions of some of the fields described in XSD can be found in **b2bCommonTypes.xsd** and **b2bTransactionCommon.xsd** files (they are common for each service).

The files are provided in Attachment 1 to the documentation.

3.7 Error messages returned from Connect services

Each service handles errors. In the event of any failures, errors are returned in a response as element: <OprlErr>.

This table presents possible error codes and their descriptions:

B2B error code <Err>	B2B error description <Prtry>	Comments
1	Service invocation error	Error returned in the event of errors other than the ones listed below
10	Incorrect format of a Connect message	
11	Incorrect parameters of Connect service invocation	
12	No data	
13	Incorrect SDK version	
20	Internal system connection error	
70	Indicated authorisation tool not available	
71	Authorization tool response validity period expired	
72	Wrong response from authorization tool	
100	Account not found or no rights to account	
101	Message signature error, incorrect key version/ incorrect certificate	
102	Incorrect version of key used to sign message (incorrect value in the field "Key version"	
103	Customer has no access to system	
104	Customer has no service authorization	

105	No authorization for the statement or incorrect name (identifier) of statement	
106	No transport certificate serial number in header	
107	No subject in transport certificate	
108	Incorrect details of transport certificate	
109	Batch ID already exists	
110	Transaction ID already exists	
111	Address structure non-compliant with ISO 20022	
999	General error	

3.8 Authentication data

This table shows the common structure for all services with respect to authentication data.

Field requirements: R = required element, C = conditional element, empty = optional element

Field name	Field format	Field required or not?	Name of element	Comments
Company identification number (NIK)	string(40)	R	<service> ++MsgAuth +++NIK	Identification number (NIK) of the company where the transmission takes place (message signed by certificate)
Time stamp	long	R	<service> ++MsgAuth +++TimeStamp	Service invocation time as UNIX timestamp
Signature	base64Binary	R	<service> ++MsgAuth +++Signature	Message signature in XAdES format based on application certificate issued in respect of the indicated company's NIK, BASE64-coded. The required signature XAdES is based on an external signature (detached). Data reference should have the attribute <i>URI="transactions."</i> In the cryptographic libraries available for free on the market, the URI attribute takes the value anyURI, which is incompatible with iBiznes24 Connect service implementation. The message signature is executed on the hash created in accordance with SHA256 algorithm applied to the signature base which consists of the respective fields of the message. If SignedInfo element is created without the use of external libraries*, then the user should:

Field name	Field format	Field required or not?	Name of element	Comments
				- transform it into the canonical form based on algorithm c14n – an example is shown here https://www.w3.org/TR/xmlsig-core/#sec-SignatureAlg - create SHA-256, "00" should be added at the beginning of the hash and bytes which define the algorithm of the Ols hash (for SHA-256: (0x) 30 31 30 0d 06 09 60 86 48 01 65 03 04 02 01 05 00 04 20), - then add "01" to the resulting string and complete the block with FF* value, - the output value must be signed and entered in the SignatureValue. *depending on the programming language and used libraries, certain steps could be performed by the libraries themselves. Rules for the data which make up the signature base: - if the field is optional and does not appear in the message, its value will not be included in the created signature base, - Polish characters are converted to their standard ASCII equivalents, other characters with the ASCII code ≥ 127 (0x7F) are converted to the space sign - ASCII=32(0x20), - the decimal sign is a point, - date format: DD-MM-YYYY, - if the signature base includes a system identifier of the batch and/or the transaction batch identifier (described as "completed identifier", the fields should be prefixed with a string of characters consisting of "b2b", 17 space signs (0x20), a colon (':', 0x3A) and the system batch/transaction identifier. For example: "b2b :10"

Field name	Field format	Field required or not?	Name of element	Comments
				fields which include floating point values should be rounded to two decimals (using the Round half to even/ Bankers' rounding method).

An example of a message signature is provided in Appendix2 to the documentation (starting from Section 8).

4 Services

Interconnectedness

Account balance

GetAcct service returns information about customer account (current, deposit or credit) balance.

Account history

By using **GetAcctHistory**, you can get the list of booked inbound and outbound transactions related to a given account in the indicated period. Similarly, **GetAcctEINHistory** invokes the list of transactions booked in relation to main EIN accounts (Electronic Identification of Receivables service) up to 90 days back.

Getting statements

1. In order to be able to download statements, you should first get the account statement list through **GetAccStmtList**. The statement number is provided in the response in element <Num> e.g. <Num>2025/012</Num>.
2. Then you can use **GetStatement** to download the selected statement in the format of your choice by providing the previously received statement number.

Batch importing

- **Without acceptance**

The very invocation of **ImportTransactions** results in the import of transaction batches (without signing) and then their acceptance is only possible from the level of iBiznes24.

- **With acceptance**

1. First, you can invoke **InitAcceptance** that initiates the generation of an authorisation code (smsCode).
2. Then **VerifyAcceptance** is used to verify the entered authorization code.
3. Finally, **ImportTransactions** service is invoked that transfers the transaction batches for execution. The sequence of the three steps completes the process of importing accepted transaction batches for execution in the system.

If multiple users are involved, each of them has to invoke **InitAcceptance** and **VerifyAcceptance** (this way they sign off the batches) and then after all users have signed the batches, **ImportTransactions** should be invoked.

Batches imported through **ImportTransactions** cannot be edited in iBiznes24 electronic banking service. This ensures consistency between the financial and accounting system and iBiznes24.

If you want to link imported transactions with MT940, you should put the reference number into the field<RfrncNr>.

The reference number identifies a given transaction. If you want enable it, please contact our iBiznes24 Connect advisor.

In CAMT_053, <RmtId> field displays customer own reference. When there is no own reference, it will display the systemic identifier of the customer's transactions presenting the channel used for sent transactions.

Channels used in iBiznes24:

Channel Number	Channel Name
0	iB24
1	Connect
2	Mobile
3	TPP

Import status

This request includes a batch (list of transactions) imported to the banking system. If you want to know what's the import status (processed, pending, waiting for completion), you should invoke **GetImportStatus**.

We recommend using this service to make sure that the import was successfully processed.

Transaction Status

However, if you want to know the current transaction status (e.g. whether the transactions were entered or rejected), **GetTransactionsStatus** should be invoked.

We recommend using this service to make sure that none transaction was rejected in the electronic banking service, e.g. for the reason of insufficient account balance.

Transaction details

If you need to get the details of a transaction (transaction and batch identifier, transaction status, amount, execution method and date), you should use **GetTransactionDetails**.

Transaction confirmation

If a transaction confirmation is needed, **GetRepTransactionOrderConfirmation** should be invoked.

The confirmation includes the transaction details, e.g. sender and recipient name, amount, transaction status, execution date, date of transfer to the bank and booking date.

GetTransactionsStatus should be used to make sure that a transaction was booked.

The process includes two steps:

1. Confirmation is ordered;

When ordering confirmation, you will get an identifier in element <RprtId> e.g.

<ns3:RprtId>114377344392690140</ns3:RprtId>,

which is then used to get the confirmation.

2. Confirmation is generated;

The status will be provided (GENERATED, GENERATING or ERROR):

- GENERATING – the same request should be repeated until GENERATED status occurs,
- ERROR status – will occur if, for example, a wrong identifier is provided,
- GENERATED status – confirmation was generated, will be coded as base64 and then decoded into: PDF, HTML or CSV.

Cancellation of a single transaction

CancelTransactions can be invoked only with respect to transactions accepted or received for execution at the bank (when their execution date falls after the current date). Transaction cancellation is possible only from the level of iBiznes24 Connect and not from the traditional iBiznes24 banking service. This approach ensures data consistency between the customer's financial and accounting system and iBiznes24.

Batch cancellation

iBiznes24 electronic banking enables users to cancel the whole batch imported through iBiznes24 Connect. You should go to *Transfers->List of transfers->Batches* to find the relevant batch and then click on Cancel in the menu. If the batch had been previously accepted, the same user has to withdraw the acceptance in the first place.

Exchange rates

1. To get the bank's exchange rates, you should use **GetExTables**, which in the response element <ExTblId> will return downloadable exchange tables e.g.
<ExTblId>21b/25</ExTblId>.
2. Then you can download the tables through **GetExRates** by providing the previously received number.

VerifyWhitelist – verification of recipients against the list of VAT taxpayers

VerifyWhitelist is used to verify the details of transaction recipients (NIP tax identification number + account) against the list of VAT taxpayers (whitelist).

4.1 GetAcct – getting account details

The service returns information about customer account balance.

➤ Message signature base

The signature base results from concatenation of fields:
(Account number) + (Company NIK + value '1' + Timestamp)

➤ Input parameters

The message consists of:

- authentication data (Section 3.7),
- data necessary for defining an account query:

Field requirements: R - required element, C - conditional element, O - optional element

Field name	Field format	Field required or not?	Name of element	Comments
Message identifier	string(35)	R	B2BGetAcct +GetAcct ++MsgId +++Id	A unique message identifier defined by the sender according to the format: GetAcct-YYYYMMDD.HHMMSS.UUU, where UUU (optional) – is any number (can be random).
Account number	string(30)	R	B2BGetAcct +GetAcct ++AcctQueryDef +++AcctCrit ++++NewCrit +++++SchCrit ++++++AcclId +++++++EQ	Account number in IBAN format
With VAT account	smallint(1)		B2BGetAcct +GetAcct ++AcctQueryDef +++AcctCrit ++++NewCrit +++++SchCrit ++++++AcclId +++++++WithVat	Defines whether to get details for an account with a linked VAT account (possible values: 0 - without account, 1 - with VAT account). If the element is missing, the value is 0.
Balance type	string(4)	R	B2BGetAcct +GetAcct ++AcctQueryDef +++AcctCrit ++++NewCrit +++++SchCrit ++++++Bal +++++++BalTp +++++++Cd	Permissible codes: • AVLB – available funds • BOOK – current balance The element can appear twice, but each code can occur only once.
Multilateral balance	string(4)	R	B2BGetAcct +GetAcct	Only 'MULT' option is acceptable – multilateral balance

			++AcctQueryDef +++AcctCrit ++++NewCrit +++++SchCrit ++++++Bal +++++++CtrPtyTp	
--	--	--	--	--

➤ **Output parameters**

Field name	Field format	Field required or not?	Name of element	Comments
Message identifier	string(35)		B2BRtrtAcct +RtrtAcct ++MsgId +++Id	
IBAN	string(30)	R	B2BRtrtAcct +RtrtAcct ++BizRpt +++AcctRpt ++++AcctId	
IBAN of linked account VAT	string(30)		B2BRtrtAcct +RtrtAcct ++BizRpt +++AcctRpt ++++VatAcctId	
-	-		B2BRtrtAcct +RtrtAcct ++BizRpt +++AcctRpt ++++Acct +++++MulBal	Acct.MulBal may appear twice: once for the booked balance and once for the available balance
Amount	decimal(18,2)		B2BRtrtAcct +RtrtAcct ++BizRpt +++AcctRpt ++++Acct +++++MulBal ++++++Amt	
Balance indicator	string(4)		B2BRtrtAcct +RtrtAcct ++BizRpt +++AcctRpt ++++Acct +++++MulBal ++++++CdtDbtInd	CRDT or DBIT

Field name	Field format	Field required or not?	Name of element	Comments
Balance type	string(4)		B2BRtrtAcct +RtrtAcct ++BizRpt +++AcctRpt ++++Acct +++++MulBal +++++Tp +++++Cd	AVLB or BOOK
Account type	string(3)		B2BRtrtAcct +AddtAcctInf ++AcctTp	
Account opening date	date		B2BRtrtAcct +AddtAcctInf ++OpnDte	Date format: YYYY-MM-DD
Last operation date	date		B2BRtrtAcct +AddtAcctInf ++LstOprDte	Date format: YYYY-MM-DD
Initial balance	decimal(18,2)		B2BRtrtAcct +AddtAcctInf ++IntBal	
Daily debit turnover	decimal(18,2)		B2BRtrtAcct +AddtAcctInf ++DyDbtTrnovr	Daily turnover (DR) having impact on the value of interest on a given day
Daily CR turnover	decimal(18,2)		B2BRtrtAcct +AddtAcctInf ++DyCrdTrnovr	Daily turnover (CR) having impact on the value of interest on a given day
Currency code	string(3)		B2BRtrtAcct +AddtAcctInf ++Ccy	
Currency symbol	string(3)		B2BRtrtAcct +AddtAcctInf ++CcyCd	
Current balance	decimal(18,2)		B2BRtrtAcct +AddtAcctInf ++Amt	
Available amount	decimal(18,2)		B2BRtrtAcct +AddtAcctInf ++AvlAmt	Balance + credit limits in the account - account blocks
Current interest rate	decimal (7,5)		B2BRtrtAcct +AddtAcctInf ++Rte	Current interest rate (applied to current account and not to a credit/ deposit account)

Field name	Field format	Field required or not?	Name of element	Comments
Loan limit	decimal(18,2)		B2BRtrtAcct +AddtAcctInf ++LoanLim	Loan limit (current account)
Blocked amount	decimal(18,2)		B2BRtrtAcct +AddtAcctInf ++BlkAmt	Blocked amount (current account)
Deletion date	date		B2BRtrtAcct +AddtAcctInf ++CloseData	Applies to deposit accounts
Previous report date	date		B2BRtrtAcct +AddtAcctInf ++PrvRptDte	Date of previous account statement Date format: YYYY-MM-DD
Next report date	date		B2BRtrtAcct +AddtAcctInf ++NxtRptDte	Date of next account statement Date format: YYYY-MM-DD
Next operation date	date		B2BRtrtAcct +AddtAcctInf ++NxtPmtDte	Next operation date Date format: YYYY-MM-DD
Account opening date	date		B2BRtrtAcct +AddtAcctInf ++OpenDate	Date format: YYYY-MM-DD
Previous interest capitalization date	date		B2BRtrtAcct +AddtAcctInf ++PrvIntCptDte	Date format: YYYY-MM-DD
Next interest capitalization date	date		B2BRtrtAcct +AddtAcctInf ++NxtIntCptDte	Date format: YYYY-MM-DD
Final repayment date	date		B2BRtrtAcct +AddtAcctInf ++FnlpmtDte	Date format: YYYY-MM-DD
Interest booked	decimal(18,2)		B2BRtrtAcct +AddtAcctInf ++IntSttAmt	Interest booked (applies to deposit accounts)
Capitalized interest	decimal(18,2)		B2BRtrtAcct +AddtAcctInf ++IntCptAmt	Capitalized interest (applies to deposit accounts)
Interest type	string(1)		B2BRtrtAcct +AddtAcctInf ++IntType	
Capitalisation	boolean		B2BRtrtAcct +AddtAcctInf ++IsCpt	

Field name	Field format	Field required or not?	Name of element	Comments
Is it a renewable loan?	boolean		B2BRtrtAcct +AddtAcctInf ++IsRenew	
Deposit term	string(1)		B2BRtrtAcct +AddtAcctInf ++DepTerm	
Current interest	decimal(18,2)		<u>CurIntrst</u>	Current interest (credit account)

4.2 GetAcctHistory – getting account history

The service returns account history details.

➤ Message signature base

The signature base results from concatenation of fields:

(Account number + History start date + History end date + Last transaction number) + (Company NIK + value '1' + Timestamp)

➤ Input parameters

The message consists of:

- authentication data (Section 3.7),
- data necessary for defining an account history query.

Field requirements: R - required element, C - conditional element, O - optional element

Field name	Field format	Field required or not?	Name of element	Comments
Message identifier	string(35)	R	B2BGetAcctHistory +GetAcctHistory ++MsgId +++Id	A unique message identifier defined by the sender according to the format: GetAcctHistory-YYYYMMDD.HHMMSS.UUU, where UUU (optional) – is any number (can be random).
Account number	string(30)	R	B2BGetAcctHistory +GetAcctHistory ++AcctRptQryDef +++AcctRptCrit ++++NewCrit +++++SchCrit	Account number in BAN format

Field name	Field format	Field required or not?	Name of element	Comments
			+++++AcctId +++++EQ +++++IBAN	
History start date	date	R	B2BGetAcctHistory +GetAcctHistory ++AcctRptQryDef +++AcctRptCrit ++++NewCrit ++++SchCrit +++++AcctRptValDt +++++DtSch +++++FrDt	Date format: YYYY-MM-DD If there are no records for the specified date, the service will be executed and the account number will be provided in response.
Last transaction number	int	R	B2BGetAcctHistory +GetAcctHistory ++AcctRptQryDef +++AcctRptCrit ++++NewCrit ++++SchCrit +++++AcctRptTxNb +++++GT	When the first query is generated, the field value is 0. For each subsequent query, the transaction number received during the previous invocation should be provided – it is returned in the field: +NtryDtls ++TxDtls +++Refs ++++TxId

➤ Output parameters

Field name	Field format	Field required or not?	Name of element	Comments
Message identifier	string(35)		B2BRtrAcctHistory +RtrtAcctHistory ++GrpHdr +++MsgId	
History creation date	dateTime		B2BRtrAcctHistory +RtrtAcctHistory ++GrpHdr +++CreDtTm	Current time
History from date	date		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt	Date format: YYYY-MM-DD

Field name	Field format	Field required or not?	Name of element	Comments
			+++FrToDt ++++FrDtTm	
History to date	date		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++FrToDt ++++ToDtTm	This field is not used
Account number	string(35)		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++AcctId	
Data related to operations:				
Amount	decimal(18,2)		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++Amt	
Amount	string(4)		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++CdtDbtInd	Permissible code 'CRDT' if value ≥ 0 'DBIT' if value < 0
Status	string(4)		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++Sts	
Booking date	date		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++BookgDt ++++DtTm	Date format: YYYY-MM-DD
Value date	date		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++ValDt ++++DtTm	Date format: YYYY-MM-DD
Bank transaction code	string		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry	This field shows standard operation codes

Field name	Field format	Field required or not?	Name of element	Comments
			++++BkTxCd +++++Domn ++++++Cd	
Operation code extension	string		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++BkTxCd +++++Domn ++++++Fmly +++++++Cd B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++BkTxCd +++++Domn ++++++Fmly +++++++Cd +++++++SubFmlyCd	This field shows internal bank operation codes If used, both 'Fmly' elements must appear at the same time: Cd and SubFmlyCd.
Transaction identifier	int		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++NtryDtls +++++TxDtls ++++++Refs +++++++Txld	A unique value during each day. Please note that the maximum Lp value may be higher than N when the query is about N records.
Instruction amount and currency	string(24)		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++NtryDtls +++++TxDtls ++++++AmtDtls +++++++InstdAmt +++++++Amt	The currency is recorded next to the amount. The currency is based on ISO4217. For an EIN account, service returns amount, not currency code.
Debtor's address	string(60)		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++NtryDtls +++++TxDtls	This field can appear not more than twice. The field should contain the name and address of creditor.

Field name	Field format	Field required or not?	Name of element	Comments
			+++++RltdPties +++++Dbtr +++++PstlAdr +++++AdrLine	
Debtor's account	string(35)		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++NtryDtls +++++TxDtls +++++RltdPties +++++DbtrAcct +++++Id	Mandatory for credit transactions
Creditor address	string(60)		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++NtryDtls +++++TxDtls +++++RltdPties +++++Cdtr +++++PstlAdr +++++AdrLine	This field can appear not more than twice. The field should contain the name and address of creditor.
Creditor name	-		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++NtryDtls +++++TxDtls +++++RltdPties +++++Cdtr +++++Nm	
Creditor's account	string(35)		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry +++NtryDtls +++++TxDtls +++++RltdPties +++++CdtrAcct +++++Id	

❖ **Structured address (ISO 20022 requirement)**

For more information on ISO 20022, please visit [ISO 20022 - Santander](#).

Field name	Field format	Field required or not?	XML element name	Comments
Debtor	string(140)	R	B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++NtryDtls +++++TxDtls ++++++RltdPties +++++++Dbtr +++++++PstlAdrStr +++++++Nm	Depending on the data the bank receives, the field may contain the name or name and address debtor.
Department	string(70)		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++NtryDtls +++++TxDtls ++++++RltdPties +++++++Dbtr +++++++PstlAdrStr +++++++Dept	
Sub-department	string(70)		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++NtryDtls +++++TxDtls ++++++RltdPties +++++++Dbtr +++++++PstlAdrStr +++++++SubDept	
Street name	string(70)	C	B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++NtryDtls +++++TxDtls ++++++RltdPties +++++++Dbtr +++++++PstlAdrStr +++++++StrtNm	
Building number	string(16)	C	B2BRtrAcctHistory +RtrtAcctHistory	

Field name	Field format	Field required or not?	XML element name	Comments
			++Rpt +++Ntry ++++NtryDtls +++++TxDtls ++++++RltdPties ++++++Dbtr ++++++PstlAdrStr ++++++BldgNb	
Building name	string(35)		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++NtryDtls +++++TxDtls ++++++RltdPties ++++++Dbtr ++++++PstlAdrStr ++++++BldgNm	
Floor	string(70)		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++NtryDtls +++++TxDtls ++++++RltdPties ++++++Dbtr ++++++PstlAdrStr ++++++Flr	
Post box	string(16)		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++NtryDtls +++++TxDtls ++++++RltdPties ++++++Dbtr ++++++PstlAdrStr ++++++PstBx	
Room	string(70)		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++NtryDtls +++++TxDtls	

Field name	Field format	Field required or not?	XML element name	Comments
			+++++RltdPties +++++Dbtr +++++PstlAdrStr +++++Room	
Post code	string(16)	C	B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++NtryDtls +++++TxDtls +++++RltdPties +++++Dbtr +++++PstlAdrStr +++++PstCd	
Town name	string(35)		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++NtryDtls +++++TxDtls +++++RltdPties +++++Dbtr +++++PstlAdrStr +++++TwnNm	
Town location name	string(35)		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++NtryDtls +++++TxDtls +++++RltdPties +++++Dbtr +++++PstlAdrStr +++++TwnLctnNm	
District name	string(35)		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++NtryDtls +++++TxDtls +++++RltdPties +++++Dbtr +++++PstlAdrStr +++++DstrctNm	

Field name	Field format	Field required or not?	XML element name	Comments
Country sub-division	string(35)		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++NtryDtls +++++TxDtls ++++++RltdPties +++++++Dbtr +++++++PstlAdrStr +++++++CtrySubDvsn	
Country	string(2)		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++NtryDtls +++++TxDtls ++++++RltdPties +++++++Dbtr +++++++PstlAdrStr +++++++Ctry	
Adress Line	string(140)		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++NtryDtls +++++TxDtls ++++++RltdPties +++++++Dbtr +++++++PstlAdrStr +++++++AdrLine	
Creditor	string(140)	R	B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++NtryDtls +++++TxDtls ++++++RltdPties +++++++Cdtr +++++++PstlAdrStr +++++++Nm	Depending on the data the bank receives, the field may contain the name or name and address creditor.
Department	string(70)		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry	

Field name	Field format	Field required or not?	XML element name	Comments
			++++NtryDtls +++++TxDtls ++++++RltdPties +++++++Cdtr +++++++PstlAdrStr +++++++Dept	
Sub-department	string(70)		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++NtryDtls +++++TxDtls ++++++RltdPties +++++++Cdtr +++++++PstlAdrStr +++++++SubDept	
Street name	string(70)	C	B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++NtryDtls +++++TxDtls ++++++RltdPties +++++++Cdtr +++++++PstlAdrStr +++++++StrtNm	
Building number	string(16)	C	B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++NtryDtls +++++TxDtls ++++++RltdPties +++++++Cdtr +++++++PstlAdrStr +++++++BldgNb	
Building name	string(35)		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++NtryDtls +++++TxDtls ++++++RltdPties +++++++Cdtr	

Field name	Field format	Field required or not?	XML element name	Comments
			++++++PstlAdrStr ++++++BldgNm	
Floor	string(70)		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++NtryDtls +++++TxDtls +++++RltdPties +++++Cdtr ++++++PstlAdrStr ++++++Flr	
Post box	string(16)		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++NtryDtls +++++TxDtls +++++RltdPties +++++Cdtr ++++++PstlAdrStr ++++++PstBx	
Room	string(70)		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++NtryDtls +++++TxDtls +++++RltdPties +++++Cdtr ++++++PstlAdrStr ++++++Room	
Post code	string(16)	C	B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++NtryDtls +++++TxDtls +++++RltdPties +++++Cdtr ++++++PstlAdrStr ++++++PstCd	
Town name	string(35)		B2BRtrAcctHistory +RtrtAcctHistory	

Field name	Field format	Field required or not?	XML element name	Comments
			++Rpt +++Ntry ++++NtryDtls +++++TxDtls ++++++RltdPties ++++++Cdtr ++++++PstlAdrStr ++++++TwnNm	
Town location name	string(35)		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++NtryDtls +++++TxDtls ++++++RltdPties ++++++Cdtr ++++++PstlAdrStr ++++++TwnLctnNm	
District name	string(35)		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++NtryDtls +++++TxDtls ++++++RltdPties ++++++Cdtr ++++++PstlAdrStr ++++++DstrctNm	
Country sub-division	string(35)		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++NtryDtls +++++TxDtls ++++++RltdPties ++++++Cdtr ++++++PstlAdrStr ++++++CtrySubDvsn	
Country	string(2)		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++NtryDtls +++++TxDtls	

Field name	Field format	Field required or not?	XML element name	Comments
			+++++RltdPties +++++Cdtr +++++PstlAdrStr +++++Ctry	
Adress Line	string(140)		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++NtryDtls +++++TxDtls +++++RltdPties +++++Cdtr +++++PstlAdrStr +++++AdrLine	

❖ Input parameters

Field name	Field format	Field required or not?	Name of element	Comments
Remittance Information – Unstructured	string(140)	R	B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++NtryDtls +++++TxDtls +++++RmtInf +++++Ustrd	The field can appear only once.
Has more records?	boolean		B2BRtrAcctHistory ++AddtAcctHistoryInf +++HasMoreRcrds	This field provides information whether there are more records falling within the range referred in the query – value: true or false. If there exist more records, the query should be resent with appropriately modified parameters, so that the fields have the same values as in the previously returned operation: • Date from • Last transaction number

❖ UltimateDebtor and UltimateCreditor

Field name	Field format	Field required or not?	XML element name	Comments
Ultimate debtor	string(140)	R	B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++NtryDtls +++++TxDtls ++++++RltdPties +++++++UltmtDbtr +++++++Nm	
Department	string(70)		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++NtryDtls +++++TxDtls ++++++RltdPties +++++++UltmtDbtr +++++++Dept	
Sub-department	string(70)		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++NtryDtls +++++TxDtls ++++++RltdPties +++++++UltmtDbtr +++++++SubDept	
Street name	string(70)		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++NtryDtls +++++TxDtls ++++++RltdPties +++++++UltmtDbtr +++++++StrtNm	
Building number	string(16)		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++NtryDtls +++++TxDtls ++++++RltdPties	

Field name	Field format	Field required or not?	XML element name	Comments
			++++++UltmtDbtr ++++++BldgNb	
Building name	string(35)		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++NtryDtls +++++TxDtls +++++RltdPties ++++++UltmtDbtr ++++++BldgNm	
Floor	string(70)		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++NtryDtls +++++TxDtls +++++RltdPties ++++++UltmtDbtr ++++++Flr	
Post box	string(16)		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++NtryDtls +++++TxDtls +++++RltdPties ++++++UltmtDbtr ++++++PstBx	
Room	string(70)		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++NtryDtls +++++TxDtls +++++RltdPties ++++++UltmtDbtr ++++++Room	
Post code	string(16)		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++NtryDtls +++++TxDtls	

Field name	Field format	Field required or not?	XML element name	Comments
			+++++RltdPties +++++UltmtDbtr +++++PstCd	
Town name	string(35)		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++NtryDtls +++++TxDtls +++++RltdPties +++++UltmtDbtr +++++TwnNm	
Town location name	string(35)		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++NtryDtls +++++TxDtls +++++RltdPties +++++UltmtDbtr +++++TwnLctnNm	
District name	string(35)		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++NtryDtls +++++TxDtls +++++RltdPties +++++UltmtDbtr +++++DstrctNm	
Country sub-division	string(35)		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++NtryDtls +++++TxDtls +++++RltdPties +++++UltmtDbtr +++++CtrySubDvsn	
Country	string(2)		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++NtryDtls	

Field name	Field format	Field required or not?	XML element name	Comments
			+++++TxDtls +++++RltdPties +++++UltmtDbtr +++++Ctry	
Adress Line	string(140)		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++NtryDtls +++++TxDtls +++++RltdPties +++++UltmtDbtr +++++AdrLine	
Ultimate creditor	string(140)	R	B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++NtryDtls +++++TxDtls +++++RltdPties +++++UltmtCdtr +++++Nm	
Department	string(70)		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++NtryDtls +++++TxDtls +++++RltdPties +++++UltmtCdtr +++++Dept	
Sub-department	string(70)		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++NtryDtls +++++TxDtls +++++RltdPties +++++UltmtCdtr +++++SubDept	
Street name	string(70)		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry	

Field name	Field format	Field required or not?	XML element name	Comments
			++++NtryDtls +++++TxDtls ++++++RltdPties +++++++UltmtCdtr +++++++StrtNm	
Building number	string(16)		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++NtryDtls +++++TxDtls ++++++RltdPties +++++++UltmtCdtr +++++++BldgNb	
Building name	string(35)		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++NtryDtls +++++TxDtls ++++++RltdPties +++++++UltmtCdtr +++++++BldgNm	
Floor	string(70)		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++NtryDtls +++++TxDtls ++++++RltdPties +++++++UltmtCdtr +++++++Flr	
Post box	string(16)		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++NtryDtls +++++TxDtls ++++++RltdPties +++++++UltmtCdtr +++++++PstBx	
Room	string(70)		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt	

Field name	Field format	Field required or not?	XML element name	Comments
			+++Ntry ++++NtryDtls +++++TxDtls +++++RltdPties +++++UltmtCdtr +++++Room	
Post code	string(16)		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++NtryDtls +++++TxDtls +++++RltdPties +++++UltmtCdtr +++++PstCd	
Town name	string(35)		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++NtryDtls +++++TxDtls +++++RltdPties +++++UltmtCdtr +++++TwnNm	
Town location name	string(35)		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++NtryDtls +++++TxDtls +++++RltdPties +++++UltmtCdtr +++++TwnLctnNm	
District name	string(35)		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++NtryDtls +++++TxDtls +++++RltdPties +++++UltmtCdtr +++++DstrctNm	
Country sub-division	string(35)		B2BRtrAcctHistory +RtrtAcctHistory	

Field name	Field format	Field required or not?	XML element name	Comments
			++Rpt +++Ntry ++++NtryDtls +++++TxDtls ++++++RltdPties +++++++UltmtCdtr ++++++++CtrySubDvsn	
Country	string(2)		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++NtryDtls +++++TxDtls ++++++RltdPties +++++++UltmtCdtr ++++++++Ctry	
Adress Line	string(140)		B2BRtrAcctHistory +RtrtAcctHistory ++Rpt +++Ntry ++++NtryDtls +++++TxDtls ++++++RltdPties +++++++UltmtCdtr ++++++++AdrLine	

4.3 GetAccStmntList – getting account statement list

The service generates a list of account statements.

➤ Message signature base

The signature base results from concatenation of fields:

(Account number) + (Company NIK + value '1' + Timestamp)

➤ Input parameters

The message consists of:

- authentication data (Section 3.7),
- data necessary for defining an account statement list query:

Field requirements: R - required element, C - conditional element, O - optional element

Field name	Field format	Field required or not?	Name of element	Comments
Message identifier	string(35)	R	B2BGetAcctStmtList +GetAcctStmtList ++MsgId +++Id	A unique message identifier defined by the sender according to the format: GetAcctStmtList-YYYYMMDD.HHMMSS.UUU – where UUU (is optional) – any number (can be random)
Account number	string(30)	R	B2BGetAcctStmtList +GetAcctStmtList ++AcctStmtListQryDef +++AcctStmtListCrit ++++NewCrit +++++SchCrit ++++++Acct +++++++EQ	Account number in Bank Account Number
Date from	date	R	B2BGetAcctStmtList +GetAcctStmtList ++AcctStmtListQryDef +++AcctStmtRatesCrit ++++NewCrit +++++SchCrit ++++++DateFrom	Date from Date format: YYYY-MM-DD
Date from	date	R	B2BGetAcctStmtList +GetAcctStmtList ++AcctStmtListQryDef +++AcctStmtRatesCrit ++++NewCrit +++++SchCrit ++++++DateTo	Date to Date format: YYYY-MM-DD

➤ Output parameters

Field name	Field format	Field required or not?	Name of element	Comments
Message identifier	string(35)		B2BRtrAcctStmtList +RtrAcctStmtList ++MsgId +++Id	
Account number	string(30)		B2BRtrAcctStmtList +RtrAcctStmtList ++StmtListRpt +++AcctId	

Field name	Field format	Field required or not?	Name of element	Comments
-	-		B2BRtrAcctStmtList +RtrAcctStmtList ++StmtListRpt +++Stmt	Statement list
Statement date	date		B2BRtrAcctStmtList +RtrAcctStmtList ++StmtListRpt +++Stmt ++++Date	Statement date to be provided via GetStatement. Date format: YYYY-MM-DD
Statement number	string(10)		B2BRtrAcctStmtList +RtrAcctStmtList ++StmtListRpt +++Stmt ++++Num	Statement number to be provided via GetStatement.

4.4 GetStatement – getting statement

The service returns data related to the indicated statement.

➤ Message signature base

The signature base results from concatenation of fields:

(Account number) + (Company NIK + value '1' + Timestamp)

➤ Input parameters

The message consists of:

- authentication data (Section 3.7),
- data necessary for defining the statement query:

Field requirements: R - required element, C - conditional element, O - optional element

Field name	Field format	Field required or not?	Name of element	Comments
Company identification number (NIK)	string(40)	R	B2BGetStatement +StQuery ++StOwner	
Statement number	string(10)	R	B2BGetStatement +StQuery	Field from GetAcctStmtList service

			++StIds +++StId ++++StNum	
Statement date	date	R	B2BGetStatement +StQuery ++StIds +++StId ++++StDate	Field from GetAcctStmntList service Date format: YYYY-MM-DD
Account number	string(30)	R	B2BGetStatement +StQuery ++StIds +++StId ++++StAcctNum	Account number in Bank Account Number or IBAN format
Statement type	string(15)	R	B2BGetStatement +StQuery ++StType	STMT - statements STMT_ATTACHMENT - statement attachments
Statement format	string(10)	R	B2BGetStatement +StQuery ++StForm	PDF, HTML, CSV, XML, CAMT_053, MT940, MF+CSV, VIDEOTEL Parameters of MT940 can be set by iBiznes24 Connect advisor.

➤ Output parameters

Field name	Field format	Field required or not?	Name of element	Description
Statement status	string(10)	R	B2BRtrStatement +StResp ++StStatus	Current statement status: ERROR – error while generating statement or missing statement GENERATING – accepted for generation (for the GENERATING status, a request based on the same parameters has to be repeated) GENERATED – ready
Statement format	string(10)		B2BRtrStatement +StResp ++StForm	See entry field
Binary/ text statement data	base64Binary		B2BRtrStatement +StResp ++StData	Statement generated in binary format (Base64 format)
Statement body format	string(4)		B2BRtrStatement +StResp ++StBodyFormat	Statement data format: ZIP, PDF, HTML, CSV, eMT, EXP, XML, CAMT.053

4.5 GetExTables – getting exchange tables

The service returns a list of exchange tables.

➤ Message signature base

The signature base results from concatenation of fields:

(Table date (DD-MM-YYYY format)) + (Company NIK + value '1' + Timestamp)

➤ Input parameters

The message consists of:

- authentication data (Section 3.7),
- data necessary for defining an exchange table list query:

Field requirements: R - required element, C - conditional element, O - optional element

Field name	Field format	Field required or not?	Name of element	Comments
Message identifier	string(35)	R	B2BGetExTables +GetExTbl ++MsgId +++Id	A unique message identifier defined by the sender according to the format: GetExTbl-YYYYMMDD.HHMMSS.UUU – where UUU (optional) – is any number (can be random)
Exchange table date	date	R	B2BGetExTables +GetExTbl ++ExTblQryDef +++ExTblCrit ++++NewCrit +++++SchCrit ++++++ExTblDate	Exchange table start date Date format: YYYY-MM-DD
Exchange table end date	date	R	B2BGetExTables +GetExTbl ++ExTblQryDef +++ExTblCrit ++++NewCrit +++++SchCrit ++++++ExTblEndDate	Table end date Date format: YYYY-MM-DD

➤ Output parameters

Field name	Field format	Field required or not?	Name of element	Comments
Message identifier	string(35)		B2BTrExTables	

			RtrExTbl +MsgId ++Id	
Exchange table identifier	string(10)		B2BRtrExTables RtrExTbl +ExTblRpt ++ExTbl +++ExTblId	
Exchange table date	date		B2BRtrExTables RtrExTbl +ExTblRpt ++ExTbl +++ExTblDate	Date format: YYYY-MM-DD
Exchange table end date	date		B2BRtrExTables RtrExTbl +ExTblRpt ++ExTbl +++ExTblEndDate	Date format: YYYY-MM-DD
Exchange table time	string(5)		B2BRtrExTables RtrExTbl +ExTblRpt ++ExTbl +++ExTblTime	Exchange table start date (format HH:MM) related to a given exchange table identifier

4.6 GetExRates – getting exchange rates

The service returns data from the indicated exchange table.

➤ Message signature base

The signature base results from concatenation of fields:

(Exchange table identifier) + (Company NIK + value '1' + Timestamp)

➤ Input parameters

The message consists of:

- authentication data (Section 3.7),
- data necessary for defining exchange table query:

Field requirements: R - required element, C - conditional element, O - optional element

Field name	Field format	Field required or not?	Name of element	Comments
Message identifier	string(35)	R	B2BGetExRates +GetExRates	A unique message identifier defined by the sender according to the format:

Field name	Field format	Field required or not?	Name of element	Comments
			++MsgId +++Id	GetExRates-YYYYMMDD.HHMMSS.UUU – UUU (optional) – any number (can be random)
Exchange table identifier	string(10)		B2BGetExRates +GetExRates ++ExRatesQryDef +++ExRatesCrit ++++NewCrit +++++SchCrit ++++++ExTblId	Exchange table identifier from GetExTables service. If the field is provided, the current exchange table will be returned.
Option	string(3)		B2BGetExRates +GetExRates ++ExRatesQryDef +++ExRatesCrit ++++NewCrit +++++SchCrit ++++++Option	Possible values: 2 - returns details of the indicated exchange table

➤ Output parameters

Field name	Field format	Field required or not?	Name of element	Comments
Message identifier	string(35)		B2BRtrExRates +RtrExRates ++MsgId +++Id	
Exchange table identifier	string(10)		B2BRtrExRates +RtrExRates ++ExRatesRpt +++ExTbl ++++ExTblId	
Exchange table date	date		B2BRtrExRates +RtrExRates ++ExRatesRpt +++ExTbl ++++ExTblDate	Date format: YYYY-MM-DD

Field name	Field format	Field required or not?	Name of element	Comments
Exchange table time	string(8)		B2BRtrExRates +RtrExRates ++ExRatesRpt +++ExTbl ++++ExTblTime	Format HH24:MM:SS
Rate 1	string(64)		B2BRtrExRates +RtrExRates ++ExRatesRpt +++ExRates ++++ExRate +++++Rate1	Direct rates, separator: " "
Rate 2	string(64)		B2BRtrExRates +RtrExRates ++ExRatesRpt +++ExRates ++++ExRate +++++Rate2	Derived rates EUR/PLN and parities
Rate pair	string(64)		B2BRtrExRates +RtrExRates ++ExRatesRpt +++ExRates ++++ExRate +++++RatePair	This field is not used
Rate decimal	string(64)		B2BRtrExRates +RtrExRates ++ExRatesRpt +++ExRates ++++ExRate +++++RateDcml	This field is not used

4.7 GetAcctEINHistory – getting EIN history

The service gets the history – list of operations from a given account as part of the Electronic Identification of Receivables (Polish: Elektroniczna Identyfikacja Należności). The service enables users to get history 90 days back.

➤ Message signature base

The signature base results from concatenation of fields:
(Account number) + (Company NIK + value '1' + Timestamp)

➤ Input parameters

The message consists of:

- authentication data (Section 3.7),
- data necessary for defining EIN history query.

Field requirements: R - required element, C - conditional element, O - optional element

Field name	Field format	Field required or not?	XML element name	Comments
Message identifier	string(35)	R	B2BGetAcctEINHistory +GrpHdr ++MsgId +++Id	A unique message identifier defined by the sender according to the format: GetAcct-YYYYMMDD.HHMMSS.UUU, where UUU (optional) – is any number (can be random).
Message creation date	dateTime	R	B2BGetAcctEINHistory +GrpHdr ++CreDtTm	
Page number	long		B2BGetAcctEINHistory +GrpHdr ++CrrtPge	Number of page for which the list of operations is to be downloaded Default: 1.
Page size	long		B2BGetAcctEINHistory +GrpHdr ++PgSze	Size of page for which the list of transactions is to be downloaded Maximum: 300.
Report identifier	string(100)		B2BGetAcctEINHistory +AcctEINRpt ++RptId	
Account number	string(26)	R	B2BGetAcctEINHistory +AcctEINRpt ++AcctId	Account identifier in Bank Account Number format
Booking date	date		B2BGetAcctEINHistory +AcctEINRpt ++FrToDt +++FrDt	Booking date of transaction for which the data will be generated If this field is left empty, the service will return the "No data" error. Date format: YYYY-MM-DD
Transaction type	string(2)		B2BGetAcctEINHistory +AcctEINRpt ++TxCde	Type of returned transactions. Possible values: - DR – debit transactions, lower than zero - CR – credit transactions, higher than zero - (none) – debit and credit transactions Default: (none)
Transaction identifier	string(18)		B2BGetAcctEINHistory +AcctEINRpt ++TxId	Identifier of transaction for which the data will be generated

➤ Output parameters

Field name	Field format	Field required or not?	Name of element	Comments
Message identifier	string(35)	R	B2BRtrAcctEINHistory +GrpHdr ++MsgId +++Id	Message identifier – value from the field in the original message
Message creation date	dateTime		B2BRtrAcctEINHistory +GrpHdr ++CreDtTm	Field value from the original message
Total number of transactions	long	R	B2BRtrAcctEINHistory +GrpHdr ++TtlTxs	Total number of transactions
Total number of pages	long	R	B2BRtrAcctEINHistory +GrpHdr ++TtlPgs	Total number of pages
Current page number	long	R	B2BRtrAcctEINHistory +GrpHdr ++CrrtPge	Current page number
Page size	long	R	B2BRtrAcctEINHistory +GrpHdr ++PgSize	Number of transactions per page
Ntry contains elements related to transactions referred to in a given query and can occur many times – in every case for an individual transaction				
Transaction identifier	string(18)	R	B2BRtrAcctEINHistory +Rpt ++Ntry +++NtryDtls ++++TxDtls +++++Refs ++++++TxId	Number of transactions for which information in a given record is returned
Account number	string(26)	R	B2BRtrAcctEINHistory +Rpt ++Ntry +++Acct ++++Id +++++Othr	Account number in Bank Account Number format
Booking date	date	R	B2BRtrAcctEINHistory +Rpt ++Ntry +++BookgDt ++++Dt	Transaction date Date format: YYYY-MM-DD
Value date	date	R	B2BRtrAcctEINHistory +Rpt ++Ntry +++ValDt ++++Dt	Transaction execution date Date format: YYYY-MM-DD
Amount	decimal(19,2)	R	B2BRtrAcctEINHistory +Rpt	Transaction amount

Field name	Field format	Field required or not?	Name of element	Comments
			++Ntry +++Amt	
Transaction code	string(3)	R	B2BRtrAcctEINHistory +Rpt ++Ntry +++BkTxCd ++++Domn +++++Cd	Bank transaction code
Transaction description	string(255)	R	B2BRtrAcctEINHistory +Rpt ++Ntry +++NtryDtls ++++TxDtls +++++RmtInf +++++TxDesc	Transaction description for customer
Information - code	string		B2BRtrAcctEINHistory +Rpt ++Ntry +++BkTxCd ++++Domn +++++Fmly +++++Cd B2BRtrAcctEINHistory +Rpt ++Ntry +++BkTxCd ++++Domn +++++Fmly +++++SubFmlyCd	
Debtor account	string(34)	R	B2BRtrAcctEINHistory +Rpt ++Ntry +++NtryDtls ++++TxDtls +++++RltdPties +++++DbtrAcct +++++Id	Debtor account identifier
Creditor account	string(34)	R	B2BRtrAcctEINHistory +Rpt ++Ntry +++NtryDtls ++++TxDtls +++++RltdPties +++++CdtrAcct +++++Id	Creditor account identifier (virtual or technical)
Debtor name	string(140)	R	B2BRtrAcctEINHistory +Rpt	Debtor name

Field name	Field format	Field required or not?	Name of element	Comments
			++Ntry +++NtryDtls ++++TxDtls +++++RltdPties +++++Dbtr +++++Nm	
Creditor name	string(140)	R	B2BRtrAcctEINHistory +Rpt ++Ntry +++NtryDtls ++++TxDtls +++++RltdPties +++++Cdtr +++++Nm	Creditor name

❖ **Structured address (ISO 20022 requirement)**

For more information on ISO 20022, please visit [ISO 20022 - Santander](#).

Field name	Field format	Field required or not?	XML element name	Comments
Debtor	string(140)	R	B2BRtrAcctEINHistory +Rpt ++Ntry +++NtryDtls ++++TxDtls +++++RltdPties +++++DbtrPstlAdr +++++Nm	Depending on the data the bank receives, the field may contain the name or name and address of the debtor.
Department	string(70)		B2BRtrAcctEINHistory +Rpt ++Ntry +++NtryDtls ++++TxDtls +++++RltdPties +++++DbtrPstlAdr +++++Dept	
Sub-department	string(70)		B2BRtrAcctEINHistory +Rpt ++Ntry +++NtryDtls ++++TxDtls +++++RltdPties	

Field name	Field format	Field required or not?	XML element name	Comments
			+++++DbtrPstlAdr +++++SubDept	
Street name	string(70)	C	B2BRtrAcctEINHistory +Rpt ++Ntry +++NtryDtls ++++TxDtls +++++RltdPties +++++DbtrPstlAdr +++++StrtNm	
Building number	string(16)	C	B2BRtrAcctEINHistory +Rpt ++Ntry +++NtryDtls ++++TxDtls +++++RltdPties +++++DbtrPstlAdr +++++BldgNb	
Building name	string(35)		B2BRtrAcctEINHistory +Rpt ++Ntry +++NtryDtls ++++TxDtls +++++RltdPties +++++DbtrPstlAdr +++++BldgNm	
Floor	string(70)		B2BRtrAcctEINHistory +Rpt ++Ntry +++NtryDtls ++++TxDtls +++++RltdPties +++++DbtrPstlAdr +++++Flr	
Post box	string(16)		B2BRtrAcctEINHistory +Rpt ++Ntry +++NtryDtls ++++TxDtls +++++RltdPties +++++DbtrPstlAdr +++++PstBx	
Room	string(70)		B2BRtrAcctEINHistory +Rpt	

Field name	Field format	Field required or not?	XML element name	Comments
			++Ntry +++NtryDtls ++++TxDtls +++++RltdPties ++++++DbtrPstlAdr ++++++Room	
Post code	string(16)	C	B2BRtrAcctEINHistory +Rpt ++Ntry +++NtryDtls ++++TxDtls +++++RltdPties ++++++DbtrPstlAdr ++++++PstCd	
Town name	string(35)		B2BRtrAcctEINHistory +Rpt ++Ntry +++NtryDtls ++++TxDtls +++++RltdPties ++++++DbtrPstlAdr ++++++TwnNm	
Town location name	string(35)		B2BRtrAcctEINHistory +Rpt ++Ntry +++NtryDtls ++++TxDtls +++++RltdPties ++++++DbtrPstlAdr ++++++TwnLctnNm	
District name	string(35)		B2BRtrAcctEINHistory +Rpt ++Ntry +++NtryDtls ++++TxDtls +++++RltdPties ++++++DbtrPstlAdr ++++++DstrctNm	
Country sub-division	string(35)		B2BRtrAcctEINHistory +Rpt ++Ntry +++NtryDtls ++++TxDtls +++++RltdPties	

Field name	Field format	Field required or not?	XML element name	Comments
			+++++DbtrPstlAdr +++++CtrySubDvsn	
Country	string(2)		B2BRtrAcctEINHistory +Rpt ++Ntry +++NtryDtls ++++TxDtls +++++RltdPties +++++DbtrPstlAdr +++++Ctry	
Adress Line	string(140)		B2BRtrAcctEINHistory +Rpt ++Ntry +++NtryDtls ++++TxDtls +++++RltdPties +++++DbtrPstlAdr +++++AdrLine	
Creditor	string(140)	R	B2BRtrAcctEINHistory +Rpt ++Ntry +++NtryDtls ++++TxDtls +++++RltdPties +++++CdtrPstlAdr +++++Nm	Depending on the data the bank receives, the field may contain the name or name and address of the creditor.
Department	string(70)		B2BRtrAcctEINHistory +Rpt ++Ntry +++NtryDtls ++++TxDtls +++++RltdPties +++++CdtrPstlAdr +++++Dept	
Sub-department	string(70)		B2BRtrAcctEINHistory +Rpt ++Ntry +++NtryDtls ++++TxDtls +++++RltdPties +++++CdtrPstlAdr +++++SubDept	
Street name	string(70)	C	B2BRtrAcctEINHistory +Rpt	

Field name	Field format	Field required or not?	XML element name	Comments
			++Ntry +++NtryDtls ++++TxDtls +++++RltdPties ++++++CdtrPstlAdr +++++++StrtNm	
Building number	string(16)	C	B2BRtrAcctEINHistory +Rpt ++Ntry +++NtryDtls ++++TxDtls +++++RltdPties ++++++CdtrPstlAdr +++++++BldgNb	
Building name	string(35)		B2BRtrAcctEINHistory +Rpt ++Ntry +++NtryDtls ++++TxDtls +++++RltdPties ++++++CdtrPstlAdr +++++++BldgNm	
Floor	string(70)		B2BRtrAcctEINHistory +Rpt ++Ntry +++NtryDtls ++++TxDtls +++++RltdPties ++++++CdtrPstlAdr +++++++Flr	
Post box	string(16)		B2BRtrAcctEINHistory +Rpt ++Ntry +++NtryDtls ++++TxDtls +++++RltdPties ++++++CdtrPstlAdr +++++++PstBx	
Room	string(70)		B2BRtrAcctEINHistory +Rpt ++Ntry +++NtryDtls ++++TxDtls +++++RltdPties	

Field name	Field format	Field required or not?	XML element name	Comments
			+++++CdtrPstlAdr +++++Room	
Post code	string(16)	C	B2BRtrAcctEINHistory +Rpt ++Ntry +++NtryDtls ++++TxDtls +++++RltdPties +++++CdtrPstlAdr +++++PstCd	
Town name	string(35)		B2BRtrAcctEINHistory +Rpt ++Ntry +++NtryDtls ++++TxDtls +++++RltdPties +++++CdtrPstlAdr +++++TwnNm	
Town location name	string(35)		B2BRtrAcctEINHistory +Rpt ++Ntry +++NtryDtls ++++TxDtls +++++RltdPties +++++CdtrPstlAdr +++++TwnLctnNm	
District name	string(35)		B2BRtrAcctEINHistory +Rpt ++Ntry +++NtryDtls ++++TxDtls +++++RltdPties +++++CdtrPstlAdr +++++DstrctNm	
Country sub-division	string(35)		B2BRtrAcctEINHistory +Rpt ++Ntry +++NtryDtls ++++TxDtls +++++RltdPties +++++CdtrPstlAdr +++++CtrySubDvsn	
Country	string(2)		B2BRtrAcctEINHistory +Rpt	

Field name	Field format	Field required or not?	XML element name	Comments
			++Ntry +++NtryDtls ++++TxDtls +++++RltdPties ++++++CdtrPstlAdr ++++++Ctry	
Adress Line	string(140)		B2BRtrAcctEINHistory +Rpt ++Ntry +++NtryDtls ++++TxDtls +++++RltdPties ++++++CdtrPstlAdr ++++++Adress Line	

❖ Input parameters

Field name	Field format	Field required or not?	Name of element	Comments
Remittance information	string(140)	R	B2BRtrAcctEINHistory +Rpt ++Ntry +++NtryDtls ++++TxDtls +++++RmtInf ++++++Ustrd	Remittance information
Information - value	string(255)		B2BRtrAcctEINHistory +Rpt ++Ntry +++BkTxCd ++++Domn +++++Fmly ++++++SubFmlyCd	Key used when transmitting additional transaction details. Various sets of data depending on the input parameter Report identifier.

❖ UltimateDebtor and UltimateCreditor

Field name	Field format	Field required or not?	XML element name	Comments
Ultimate debtor	string(140)	R	B2BRtrAcctEINHistory +Rpt	

Field name	Field format	Field required or not?	XML element name	Comments
			++Ntry +++NtryDtls ++++TxDtls +++++RltdPties ++++++UltmtDbtr ++++++Nm	
Department	string(70)		B2BRtrAcctEINHistory +Rpt ++Ntry +++NtryDtls ++++TxDtls +++++RltdPties ++++++UltmtDbtr ++++++Dept	
Sub-department	string(70)		B2BRtrAcctEINHistory +Rpt ++Ntry +++NtryDtls ++++TxDtls +++++RltdPties ++++++UltmtDbtr ++++++SubDept	
Street name	string(70)		B2BRtrAcctEINHistory +Rpt ++Ntry +++NtryDtls ++++TxDtls +++++RltdPties ++++++UltmtDbtr ++++++StrtNm	
Building number	string(16)		B2BRtrAcctEINHistory +Rpt ++Ntry +++NtryDtls ++++TxDtls +++++RltdPties ++++++UltmtDbtr ++++++BldgNb	
Building name	string(35)		B2BRtrAcctEINHistory +Rpt ++Ntry +++NtryDtls ++++TxDtls +++++RltdPties	

Field name	Field format	Field required or not?	XML element name	Comments
			++++++UltmtDbtr ++++++BldgNm	
Floor	string(70)		B2BRtrAcctEINHistory +Rpt ++Ntry +++NtryDtls ++++TxDtls +++++RltdPties ++++++UltmtDbtr ++++++Flr	
Post box	string(16)		B2BRtrAcctEINHistory +Rpt ++Ntry +++NtryDtls ++++TxDtls +++++RltdPties ++++++UltmtDbtr ++++++PstBx	
Room	string(70)		B2BRtrAcctEINHistory +Rpt ++Ntry +++NtryDtls ++++TxDtls +++++RltdPties ++++++UltmtDbtr ++++++Room	
Post code	string(16)		B2BRtrAcctEINHistory +Rpt ++Ntry +++NtryDtls ++++TxDtls +++++RltdPties ++++++UltmtDbtr ++++++PstCd	
Town name	string(35)		B2BRtrAcctEINHistory +Rpt ++Ntry +++NtryDtls ++++TxDtls +++++RltdPties ++++++UltmtDbtr ++++++TwnNm	
Town location name	string(35)		B2BRtrAcctEINHistory +Rpt	

Field name	Field format	Field required or not?	XML element name	Comments
			++Ntry +++NtryDtls ++++TxDtls +++++RltdPties ++++++UltmtDbtr +++++++TwnLctnNm	
District name	string(35)		B2BRtrAcctEINHistory +Rpt ++Ntry +++NtryDtls ++++TxDtls +++++RltdPties ++++++UltmtDbtr +++++++DstrctNm	
Country sub-division	string(35)		B2BRtrAcctEINHistory +Rpt ++Ntry +++NtryDtls ++++TxDtls +++++RltdPties ++++++UltmtDbtr +++++++CtrySubDvsn	
Country	string(2)		B2BRtrAcctEINHistory +Rpt ++Ntry +++NtryDtls ++++TxDtls +++++RltdPties ++++++UltmtDbtr +++++++Ctry	
Adress Line	string(140)		B2BRtrAcctEINHistory +Rpt ++Ntry +++NtryDtls ++++TxDtls +++++RltdPties ++++++UltmtDbtr +++++++AdrLine	
Ultimate creditor	string(140)	R	B2BRtrAcctEINHistory +Rpt ++Ntry +++NtryDtls ++++TxDtls +++++RltdPties	

Field name	Field format	Field required or not?	XML element name	Comments
			++++++UltmtCdtr ++++++Nm	
Department	string(70)		B2BRtrAcctEINHistory +Rpt ++Ntry +++NtryDtls ++++TxDtls +++++RltdPties ++++++UltmtCdtr ++++++Dept	
Sub-department	string(70)		B2BRtrAcctEINHistory +Rpt ++Ntry +++NtryDtls ++++TxDtls +++++RltdPties ++++++UltmtCdtr ++++++SubDept	
Street name	string(70)		B2BRtrAcctEINHistory +Rpt ++Ntry +++NtryDtls ++++TxDtls +++++RltdPties ++++++UltmtCdtr ++++++StrtNm	
Building number	string(16)		B2BRtrAcctEINHistory +Rpt ++Ntry +++NtryDtls ++++TxDtls +++++RltdPties ++++++UltmtCdtr ++++++BldgNb	
Building name	string(35)		B2BRtrAcctEINHistory +Rpt ++Ntry +++NtryDtls ++++TxDtls +++++RltdPties ++++++UltmtCdtr ++++++BldgNm	
Floor	string(70)		B2BRtrAcctEINHistory +Rpt	

Field name	Field format	Field required or not?	XML element name	Comments
			++Ntry +++NtryDtls ++++TxDtls +++++RltdPties ++++++UltmtCdtr +++++++Flr	
Post box	string(16)		B2BRtrAcctEINHistory +Rpt ++Ntry +++NtryDtls ++++TxDtls +++++RltdPties ++++++UltmtCdtr +++++++PstBx	
Room	string(70)		B2BRtrAcctEINHistory +Rpt ++Ntry +++NtryDtls ++++TxDtls +++++RltdPties ++++++UltmtCdtr +++++++Room	
Post code	string(16)		B2BRtrAcctEINHistory +Rpt ++Ntry +++NtryDtls ++++TxDtls +++++RltdPties ++++++UltmtCdtr +++++++PstCd	
Town name	string(35)		B2BRtrAcctEINHistory +Rpt ++Ntry +++NtryDtls ++++TxDtls +++++RltdPties ++++++UltmtCdtr +++++++TwnNm	
Town location name	string(35)		B2BRtrAcctEINHistory +Rpt ++Ntry +++NtryDtls ++++TxDtls +++++RltdPties	

Field name	Field format	Field required or not?	XML element name	Comments
			+++++UltmtCdtr +++++TwnLctnNm	
District name	string(35)		B2BRtrAcctEINHistory +Rpt ++Ntry +++NtryDtls ++++TxDtls +++++RltdPties +++++UltmtCdtr +++++DstrctNm	
Country sub-division	string(35)		B2BRtrAcctEINHistory +Rpt ++Ntry +++NtryDtls ++++TxDtls +++++RltdPties +++++UltmtCdtr +++++CtrySubDvsn	
Country	string(2)		B2BRtrAcctEINHistory +Rpt ++Ntry +++NtryDtls ++++TxDtls +++++RltdPties +++++UltmtCdtr +++++Ctry	
Adress Line	string(140)		B2BRtrAcctEINHistory +Rpt ++Ntry +++NtryDtls ++++TxDtls +++++RltdPties +++++UltmtCdtr +++++AdrLine	

4.8 VerifyWhitelist – verification against list of VAT taxpayers

This service is used to verify whether transaction recipients are placed (NIP + account) in the VAT taxpayers' list (whitelist).

Default configuration:

a) the response codes (including errors) for each transaction record will be the same as the detailed codes that are transmitted from the source service (SWL),

b) if there is a general error, the following can be returned:

- general code from SWL,

- general code resulting from iB24 verification:

- IB24_NO_SERIAL_NUMBER – certificate error
- IB24_NO_PERMISSION_TO_VERIFY - when the installation has no active parameter "Verification against list of VAT payers - Connect"
- IB24_NO_FIRM_IN_CERTIFICATE_SUBJECT – certificate error
- IB24_EMPTY_CERTIFICATE_SUBJECT – certificate error
- IB24_TRANSACTIONS_LIMIT_EXCEEDED – when the number of transaction records in a single request exceeds the global parameter "Maximum number of records in a single call B2B VerifyWhitelist"

➤ **Message signature base**

$\Sigma(\text{Creditor's NIP} + \text{Account number} + \text{Payment identifier}) + (\text{Company NIK} + \text{value '1'} + \text{Timestamp})$

➤ **Input parameters**

The message consists of:

- authentication data (Section 3.7),
- data necessary for defining creditor status query (transaction record)

Field requirements: R - required element, C - conditional element, O - optional element

Field name	Field format	Field required or not?	Name of element	Comments
Message identifier	string(35)	R	B2BVerifyWhitelist +GrpHdr ++MsgId +++Id	A unique message identifier defined by the sender according to the format: VerifyWhitelist-YYYYMMDD.HHMMSS.UUU -- where UUU (optional) – is any number (can be random)
Message creation date	dateTime	R	B2BVerifyWhitelist +CreDtTm	Date in XML format, e.g.: 2016-04-01T09:32:00.000+01:00
The list of individual transaction records - the TxInf section contains elements related to transactions, and it can appear multiple times, each time for an individual transaction.				

Field name	Field format	Field required or not?	Name of element	Comments
Creditor's NIP (tax identification number)	string(10)	R	B2BVerifyWhitelist +TxInf ++OrgId +++Othr ++++Id	NIP (tax identification number) – value consisting of ten digits in a row without separators, e.g. the sign „-“, example: “8226881433” Tax identification number in European format entered without PL symbol
Account number	string(34)	R	B2BVerifyWhitelist +TxInf ++AcctNum	Account number in Bank Account Number or IBAN format
Payment identifier	string(36)	R	B2BVerifyWhitelist +TxInf ++InstrId	

➤ Output parameters

Field name	Field format	Field required or not?	Name of element	Comments
Message identifier	string(35)	R	B2BRtrVerifyWhitelist +GrpHdr ++MsgId +++Id	Message identifier – value from the field in the original message
Message creation date	dateTime		B2BRtrVerifyWhitelist +GrpHdr ++CreDtTm	Date in XML format, e.g.: 2016-04-01T09:32:00.000+01:00
List of responses for individual transactions – TxInfRtr section contains elements related to transactions and can occur many times – for individual transactions.				
Payment identifier	string(36)	R	B2BRtrVerifyWhitelist +TxInfRtr ++InstrId	
Hash	string(128)	R	B2BRtrVerifyWhitelist +TxInfRtr ++InstrHsh	
Verification result	boolean	R	B2BRtrVerifyWhitelist +TxInfRtr ++TxRslt	

4.9 InitAcceptance – initiating generation of authorization code

The service initiates generation of an authorisation code (smsCode).

The service can be invoked for a single smsCode request. The limitation is the number of acceptances by subsequent accepting users for the given imported batch (see ImportTransactions and the Sgn element), for which this service must be invoked separately.

Acceptance can be multiple (by maximum 4 users) depending on the acceptance procedure applied in iBiznes24.

SMS will be sent to the phone number used as an authorisation tool. The received smsCode is valid for 3 minutes and must be used in VerifyAcceptance service during this time.

➤ Message signature base

The signature base results from concatenation of fields:

Signatory NIK + Signature challenge + Signature + Request type (Company NIK + value '1' + Timestamp)

➤ Input parameters

The message consists of:

- authentication data (Section 3.7),
- data necessary for ordering generation of authorization code:

Field requirements: R - required element, C - conditional element, O - optional element

Field name	Field format	Field required or not?	Name of element	Comments
Message identifier	string(35)	R	B2BInitAcceptance +GrpHdr ++MsgId +++Id	A unique message identifier defined by the sender according to the format: GetAcct-YYYYMMDD.HHMMSS.UUU, where UUU (optional) – is any number (can be random).
Message creation date	dateTime	R	B2BInitAcceptance +GrpHdr ++CreDtTm	Date in XML format, e.g.: 2016-04-01T09:32:00.000+01:00
Signatory NIK	string(35)	R	B2BInitAcceptance +GrpHdr ++Sgn +++SgnNIK	

Field name	Field format	Field required or not?	Name of element	Comments
Signature challenge	string(8)	R	B2BInitAcceptance +GrpHdr ++Sgn +++SgnChllge	See: field description in ImportTransactions service
Request type	short	R	B2BInitAcceptance +GrpHdr ++SmsTpe	The type affects the SMS code for a given language (country code). For transaction batches – fixed value: 37
SMS language	string(2)		B2BInitAcceptance +GrpHdr ++SmsCntry	smsCode country code: - PL (default) - EN
SMS parameters	string(256)	R	B2BInitAcceptance +GrpHdr ++SmsPrms	SmsCode parameters – depending on the type of request, the parameters should be provided (separated by space) For batch identifier and total of transaction amounts – fixed value: 37. The parameters will be provided in SMS.

➤ Output parameters

Field name	Field format	Field required or not?	Name of element	Comments
Message identifier	string(35)	R	B2BRtrInitAcceptance +GrpHdr ++MsgId +++Id	Message identifier – value from the field in original message.
Message creation date	dateTime		B2BRtrInitAcceptance +GrpHdr ++CreDtTm	Date in XML format, e.g.: 2016-04-01T09:32:00.000+01:00

4.10 VerifyAcceptance – verification of response from the authorization tool

Verification of acceptance response from the authorization tool (smsCode, Token CR - physical one-time code generator).

The service can be invoked for a single verification of the response from the Token or smsCode. The limitation is the maximum number of acceptances for subsequent persons accepting the imported batch (see ImportTransactions and the Sgn element), which is identical to the acceptance scheme specified when signing the Connect service agreement.

➤ Message signature base

The signature base results from concatenation of fields:

Signatory NIK + Signature challenge + Signature + (Company NIK + value '1' + Timestamp)

➤ Input parameters

The message consists of:

- authentication data (Section 3.7),
- data necessary for verifying the response from authorization tool:

Field requirements: R - required element, C - conditional element, O - optional element

Field name	Field format	Field required or not?	Name of element	Comments
Message identifier	string(35)	R	B2BVerifyAcceptance +GrpHdr ++MsgId +++Id	A unique message identifier defined by the sender according to the format: GetAcct-YYYYMMDD.HHMMSS.UUU, where UUU (optional) – is any number (can be random).
Message creation date	dateTime	R	B2BVerifyAcceptance +GrpHdr ++CreDtTm	Date in XML format, e.g.: 2016-04-01T09:32:00.000+01:00
Request type	short	C	B2BVerifyAcceptance +GrpHdr ++SmsTpe	See the description related to InitAcceptance service. Field required if the tool: smsCode is used.
Signatory NIK	string(35)	R	B2BVerifyAcceptance +GrpHdr ++Sgn +++SgnNIK	
Signature tool	string(5)	R	B2BVerifyAcceptance +GrpHdr ++Sgn +++SgnTl	Possible values, depending on the authorization tool used: - Token CR (physical one-time code generator) - fixed value: TOKEN - smsCode – fixed value: SMS
Signature challenge	string(8)	R	B2BVerifyAcceptance +GrpHdr ++Sgn +++SgnChllge	Possible values, depending on the authorization tool used: Token CR (physical one-time code generator) – token is called; see: field description in ImportTransactions service - smsCode – value is provided in the field in InitAcceptance service
Signature	long	R	B2BVerifyAcceptance +GrpHdr ++Sgn +++SgnRslt	Response from authorization tool: Token CR (physical one-time code generator), smsCode. The response includes 8 digits. The response could start with a zero, e.g. 06343561

Field name	Field format	Field required or not?	Name of element	Comments
Time of the token operation	dateTime	C	B2BVerifyAcceptance +GrpHdr ++Sgn +++SgnTme	Time for token operation. Field required if: Token CR (physical one-time code generator) is used. Date in XML format

➤ Output parameters

Field name	Field format	Field required or not?	Name of element	Comments
Message identifier	string(35)	R	B2BRtrVerifyAcceptance +GrpHdr ++MsgId +++Id	Message identifier – value from the field in the original message
Message creation date	dateTime		B2BRtrVerifyAcceptance +GrpHdr ++CreDtTm	Date in XML format, e.g.: 2016-04-01T09:32:00.000+01:00
Signature identifier	string(35)	R	B2BRtrVerifyAcceptance +GrpHdr ++Sgn +++SgnId	Signature identifier to be provided in import message

4.11 ImportTransactions – transfer of a batch of transactions for execution

The service transfers a batch of transactions for execution.

To avoid that a transaction is repeated, the batch or transaction status can be checked in Connect (GetImportStatus; GetTransactionsStatus). If the transactions transferred via Connect service are not visible in iBiznes24 web (or mobile) application, please contact iBiznes24 Connect advisors (phone 71 393 88 22, e-mail: iBiznes24.connect@santander.pl).

Batch groups can be signed. It requires sending signed batches in the same import that is split into individual batches (pages). The page with a batch must not include another transaction batch – subsequent batches will be sent in separate pages. This also requires specifying the given fields in the header of each message for each page of the batch.

➤ Message signature base

- Different characters are allowed in the content of the transaction depending on the type of operation and the specific field.

The table with allowed characters for downloading is available at iBiznes24.pl login page in the *Useful Links* section – *Downloads – Documents and files to download – Allowed characters in iBiznes24 (PDF)*.

- Spaces or multiple spaces at the beginning and end of a given field are not included in the calculation of the signature base.
- The decimal separator is a dot, and the precision of floating-point values is according to the specification for the given field (this is important in the case of message signature).
- Field requirements: R - required element, C - conditional element, O - optional element
- The signature base results from concatenation of fields:

*{Execution date at the bank (DD-MM-YYYY format) + Debtor's account number + completed Transaction identifier + Transaction reference + Transfer debit amount + Transfer currency symbol + Creditor name + Creditor address (**AdrLine field**) + Creditor account number + Account number for charges + Beneficiary bank + Beneficiary country code + Negotiation number + Negotiation rate}* + {completed Transaction batch identifier + user NIK + Processing level) + (company NIK + value '1' + Time stamp)}^{**}*

**occurs multiple times for each transaction*

***occurs once per batch*

- If an unstructured address is imported, the signature base should not contain the following fields: Creditor address
- If AdrLine is used (the line must not be completed in relation to transactions with an execution date falling after 20 November 2025), the signature base should contain the field: Creditor address

where:

- *negotiation number* - the transferred value is '0',
- *negotiation rate* - the transferred value is '0.00',

➤ **Input parameters**

The message consists of:

- authentication data,

- batch header,
- transaction information when there is a group of transactions (can occur multiple times),
- transaction details when there is a group of transactions (can occur multiple times),
- extension applied to specific types of transactions (optional).

❖ Batch header

Basic data for the transaction batch, in the case of multiple pages, the fields must be sent in each page except for those fields that have been excluded in the comments.

Field name	Field format	Field required or not?	XML element name	Comments
Message identifier	string(35)	R	B2BImportTransactions +CstmrCdtTrfInitn ++GrpHdr +++MsgId ++++Id	A unique message identifier defined by the sender according to the format: ImportTrans-YYYYMMDD.HHMMSS.UUU – where UUU (optional) – is any number (can be random)
Message creation date	dateTime	R	B2BImportTransactions +CstmrCdtTrfInitn ++GrpHdr +++CreDtTm	Date in XML format, e.g.: 2016-04-01T09:32:00.000+01:00.
Number of transactions in a batch	int	R	B2BImportTransactions +CstmrCdtTrfInitn ++GrpHdr +++NbOfTx	Maximum number of transactions in a batch: 6000 If a batch containing more than 300 transactions is transferred, then it should be transferred to the bank by paging it.
Batch identifier	long(19)	R	B2BImportTransactions +CstmrCdtTrfInitn ++GrpHdr +++BtchId	Unique batch identifier The same identifier appears in each page of the batch.
Batch name	string(70)		B2BImportTransactions +CstmrCdtTrfInitn ++GrpHdr +++BtchNme	Batch name
Batch identifier	long(19)		B2BImportTransactions +CstmrCdtTrfInitn ++GrpHdr +++PrntBtchId	BtchId of the first batch of transactions containing signature information. This field is defined in each page of each imported batch. Default BtchId of the same batch. This field is used for signing batch groups.
Number of transactions in an import	int		B2BImportTransactions +CstmrCdtTrfInitn ++GrpHdr +++TtlBtchs	Total number of imported batches. This field is defined in each page of each imported batch. Default: 1 This field is used for signing batch groups.

Field name	Field format	Field required or not?	XML element name	Comments
Entering user NIK	string(40)	R	B2BImportTransactions +CstmrCdtTrfInItN ++GrpHdr +++EntNIK	The indicated user will be treated as the user entering the transactions.
Sender NIK	string(40)	W	B2BImportTransactions +CstmrCdtTrfInItN ++GrpHdr +++SndNIK	The indicated user will be treated as the user sending the transactions for execution. This field is required if the batch is <i>Transferred for booking purposes</i> in the processing level field. If the field is not completed, processing will take place up to the <i>Accepted</i> level. The element related to the transfer and signature for all transaction batches from a given import can appear in the message with the first batch.
Processing level	short		B2BImportTransactions +CstmrCdtTrfInItN ++GrpHdr +++PrCsLvl	Bank processing level where processing could stop and be handled by iBiznes24. Possible values depending what's the batch status: 0 - Entered 1 - Accepted 2 - Transferred for booking purposes If there is no value in the field, processing will take place to the highest possible level.
Total number of pages	short	R	B2BImportTransactions +CstmrCdtTrfInItN ++GrpHdr +++TtlPgs	Total number of import pages
Page number	short		B2BImportTransactions +CstmrCdtTrfInItN ++GrpHdr +++CrrtPge	Current import page number Missing field means the first page.
-	-		B2BImportTransactions +CstmrCdtTrfInItN ++GrpHdr +++Sgn	Element that groups fields related to transaction batch signature. Acceptance can be multiple (by maximum 4 users). Relevant for subsequent accepting users, depending on the acceptance scheme applied in iBiznes24. In the case of multiple import pages, this branch can only appear in the first page.
Signature identifier	string(35)		B2BImportTransactions +CstmrCdtTrfInItN ++GrpHdr +++Sgn ++++SgnId	Signature identifier in interactive variant (when the signature was transferred before the import transactions message via VerifyAcceptance service).

Field name	Field format	Field required or not?	XML element name	Comments
				The element related to the transfer and signature for all transaction batches from a given import can appear in the message with the first batch.
Signatory NIK	string(40)	C	B2BImportTransactions +CstmrCdtTrfInitn ++GrpHdr +++Sgn ++++SgnNIK	This field (combined with related fields) can appear for the multi-level option. The element related to the transfer and signature for all transaction batches from a given import can appear in the message with the first batch.
Signature tool	string(5)	C	B2BImportTransactions +CstmrCdtTrfInitn ++GrpHdr +++Sgn ++++SgnTl	Possible values, depending on the authorization tool used: - Token CR (physical one-time code generator) - fixed value: TOKEN - SMS – fixed value: SMS: only the interactive variant is possible here (InitAcceptance + VerifyAcceptance). Field required if signatory is provided The element related to the transfer and signature for all transaction batches from a given import can appear in the message with the first batch.
Signature challenge	string(8)	C	B2BImportTransactions +CstmrCdtTrfInitn ++GrpHdr +++Sgn ++++SgnChllge	Signature challenge shortcut based on the algorithm Generation of challenge shortcut (transaction batch). The challenge consists of the sum of all transactions from the fields: $\sum (Debtor's\ account\ number + Amount + Creditor's\ account\ number + Currency\ symbol + Page + [symbol\ 'n' (0x0A)])$ If the field is optional and does not appear in the message, its value will not be included in the created challenge base. The transfer amount page - the value determined based on the field Amount and currency symbol of the transfer for foreign currency and SWIFT transactions (value from the Sd attribute). The challenge base for a group of batches within the import will consist of the sum of the challenge bases for all batches in the group signed together. The sum according to the order of the pages, which are numbered within the entire import.

Field name	Field format	Field required or not?	XML element name	Comments
				Field required if signatory is provided The element related to the transfer and signature for all transaction batches from a given import can appear in the message with the first batch.
Signature	base64Binary	C	B2BImportTransactions +CstmrCdtTrfInitn ++GrpHdr +++Sgn ++++SgnRslt	Result signature. For Token CR (physical one-time code generator): the response from the tool is based on the challenge shortcut of the signed data according to the algorithm for generating the challenge shortcut (transaction batch). This does not apply to smsCodes – only the interactive variant is possible here (InitAcceptance + VerifyAcceptance). The element related to the transfer and signature for all transaction batches from a given import can appear in the message with the first batch. Refer to <i>iBiznes24_Connect_Zalacznik_nr_2_do_dokumentacji.pdf</i> for signature example.
Signature date	dateTime	C	B2BImportTransactions +CstmrCdtTrfInitn ++GrpHdr +++Sgn ++++SgnTme	Field required if signatory is provided Date in XML format The element related to the transfer and signature for all transaction batches from a given import can appear in the message with the first batch.

❖ **Payment information – group of transactions:**

Payment information – this section can appear many times – for different execution dates, debtor accounts and payment methods.

Field name	Field format	Field required or not?	XML element name	Comments
Payment method	string(3)	R	B2BImportTransactions +CstmrCdtTrfInitn	If direct debit – fixed value: DD

Field name	Field format	Field required or not?	XML element name	Comments
			++PmtInf +++PmtMtd	If direct debit Split Payment – fixed value: DDS If other – fixed value: TRF
Requested execution date	date		B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++ReqdExctnDt	The execution date cannot be earlier than the current date. Date format: YYYY-MM-DD
Debtor's company name	string(70)		B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++Dbtr ++++Nm	
Debtor account identifier	string(34)	R	B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++DbtrAcct ++++Id +++++Othr ++++++Id	Bank Account Number format In the case of direct debits and direct debit Split Payments: creditor's account applies
Debtor's bank identifier code	string(5)		B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++DbtrAgt ++++FinInstnId +++++ClrSysMmbld ++++++ClrSysId +++++++Cd	Fixed value: PLKNR
Debtor bank's identifier in KNR format (Polish Clearing System Code)	string(8)		B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++DbtrAgt ++++FinInstnId +++++ClrSysMmbld ++++++Mmbld	Fixed value: 10900004

❖ Transaction details

This section contains elements related to transactions and can occur many times – for individual transactions.

Field name	Field format	Field required or not?	XML element name	Comments
End-to-end identifier	long(19)	R	B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf ++++PmtId +++++EndToEndId	Unique end-to-end identifier, permissible digits (0-9)
Transaction reference	string(32)		B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf ++++PmtId +++++RfrncNr	Transaction reference number provided in the statement in MT940 and CAMT_053 format
Settlement channel	string(4)	C	B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf ++++PmtPlnInf +++++SvcLvl +++++Cd	Fixed value: RTGS. Field mandatory only in the case of SORBNET transfer type
Transaction type	string(4)	C	B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf ++++CtgyPurp +++++Cd	Field mandatory for the following transactions: - tax authority – fixed value: TAXS - remuneration – fixed value: REMC - currency buy/sell – fixed value: CCYE - currency interbank – fixed value: CCYI - PLN transaction from a foreign currency account – fixed value: CCYP - foreign currency SWIFT – fixed value: SWFT - Split Payment – fixed value: SPKR - Split Payment Consolidation – fixed value: SPKO Interbank transactions – fixed value: INTC, to be transferred optionally, not required
DR amount and currency symbol	decimal(12,2)	R	B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf ++++Amt +++++InstAmt	Amount within the range of: 0.01 - 999999999999.99. Currency is provided in element's Ccy attribute, in accordance with ISO4217.
Creditor name	string(80)	R	B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf	Direct debits and direct debit Split Payments: the creditor's details apply. SWIFT payments: the beneficiary's details apply.

Field name	Field format	Field required or not?	XML element name	Comments
			++++Cdtr ++++Nm	SEPA: maximum 70 characters.
Creditor's country code	string(2)	C	B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf ++++Cdtr +++++PstlAdr +++++Ctry	Field required if creditor address field AdrLine is provided. Two characters required.
Creditor address	string(60)	W	B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf ++++Cdtr +++++PstlAdr +++++AdrLine	It is possible for this element to appear twice, but the total length of the fields must not exceed the permissible length of a single field. Direct debits and direct debit Split Payments: the creditor's details apply. SWIFT payments: the beneficiary's details apply. Field is not appear if structured address is provided. Field will not be used after 20 November 2025. If this field is used after this deadline, the transaction will not be executed via electronic banking service.

❖ Structured address (ISO 20022 requirement)

This section is not required for EEA countries* (required for other countries). If it is used, the *required or not field* column in the table should be consulted. This object replaces PstlAdr (it must not appear jointly with this section). For more information on ISO 20022, please visit [ISO 20022 - Santander](#).

In a single ImportTransactions request (within one batch), you must not mix unstructured addresses (AdrLine) with structured addresses (PstlAdrStr). All transactions in the batch must use the same address format – either AdrLine only or structured addresses only.

If this rule is violated, the request will be rejected as non-compliant with the specification.

Field name	Field format	Field required or not?	XML element name	Comments
Street name	string(24)	C	B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf	Required if Ctry=CA (Canada)

Field name	Field format	Field required or not?	XML element name	Comments
			++++Cdtr +++++PstlAdrStr +++++StrtNm	
Building number	string(8)	C	B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf ++++Cdtr +++++PstlAdrStr +++++BldgNb	Required if Ctry=CA (Canada)
Post code	string(8)	C	B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf ++++Cdtr +++++PstlAdrStr +++++PstCd	Required if Ctry=CA (Canada)
Town name	string(24)	R	B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf ++++Cdtr +++++PstlAdrStr +++++TwnNm	Required if Ctry=CA (Canada)
Country	string(2)	R	B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf ++++Cdtr +++++PstlAdrStr +++++Ctry	According to ISO 3166-1 alpha-2 standard
Department	string(70)		B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf ++++Cdtr +++++PstlAdrStr +++++Dept	
Sub-department	string(70)		B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf ++++Cdtr	

Field name	Field format	Field required or not?	XML element name	Comments
			+++++PstlAdrStr +++++SubDept	
Building name	string(35)		B2BImportTransactions +CstmrCdtTrfInItN ++PmtInf +++CdtTrfTxInf ++++Cdtr +++++PstlAdrStr +++++BldgNm	
Floor	string(70)		B2BImportTransactions +CstmrCdtTrfInItN ++PmtInf +++CdtTrfTxInf ++++Cdtr +++++PstlAdrStr +++++Flr	
Post box	string(16)		B2BImportTransactions +CstmrCdtTrfInItN ++PmtInf +++CdtTrfTxInf ++++Cdtr +++++PstlAdrStr +++++PstBx	
Room	string(70)		B2BImportTransactions +CstmrCdtTrfInItN ++PmtInf +++CdtTrfTxInf ++++Cdtr +++++PstlAdrStr +++++Room	
Town location name	string(35)		B2BImportTransactions +CstmrCdtTrfInItN ++PmtInf +++CdtTrfTxInf ++++Cdtr +++++PstlAdrStr +++++TwnLctnNm	
District name	string(35)		B2BImportTransactions +CstmrCdtTrfInItN ++PmtInf +++CdtTrfTxInf ++++Cdtr +++++PstlAdrStr +++++DstrctNm	

Field name	Field format	Field required or not?	XML element name	Comments
Country sub-division	string(35)		B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf ++++Cdtr +++++PstlAdrStr ++++++CtrySubDvsn	

*EEA countries: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Greece, Spain, Netherlands, Ireland, Iceland, Liechtenstein, Lithuania, Luxembourg, Latvia, Malta, Germany, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Sweden, Hungary, Italy

❖ Transaction details

Field name	Field format	Field required or not?	XML element name	Comments
Creditor account number	string(34)	R	B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf ++++CdtrAcct +++++Id ++++++Othr +++++++Id	Bank Account Number format, for SWIFT transactions: IBAN. Direct debits and DD Split Payments: the debtor's account applies.
Additional information	string(140)		B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf ++++InstrForDbtrAgt	
Transaction header	string(140)	C	B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf ++++RmtInf +++++Ustrd	This field is ignored in the case of Tax Revenue transactions Direct debit transactions – the header is: /NIP/10n/IDP/20x/TXT/27x where: /NIP/ – creditor's tax identification number (mandatory field), /IDP/ – payment identifier (mandatory field),

Field name	Field format	Field required or not?	XML element name	Comments
				/TXT/ – payment information (optional field), the maximum length is 27 characters. Split Payments – the header is: /VAT/[Kwota VAT]/IDC/[Identyfikator (NIP)]/INV/[Numer faktury VAT]/TXT/[Tytuł na formatce] some illustrative examples can be found below: e.g. /VAT/213,00/IDC/1111111111/INV/FV-201701/17/TXT/zaliczka SP header format: /VAT/10n,2n/IDC/14x/INV/35x/TXT/33x where n – permitted digits (0-9) x – any character permitted in Elixir system. In the case of consolidating funds in VAT accounts, the client will be required, in the SP transfer message, to provide the VAT amount equal to the gross amount. Instead of the invoice number, the text "przekazanie własne" (own transfer) will be inserted, and the client's NIP (tax identification number) will be placed in the field identifying the service provider. The recipient's NIP (tax identification number) is the number identifying the service provider or supplier of goods, and in the case of a refund, the number of the service recipient or purchaser of goods. A transaction may include more than one invoice received from a single creditor in a given period. In the case of such a transaction, instead of the VAT invoice number, the period for which the payment is made should be provided. This period must not be shorter than one day and not longer than one month.

Field name	Field format	Field required or not?	XML element name	Comments
				For DD Split payments, the header is: /VAT/[Kwota VAT]/IDC/[Identyfikator (NIP)]/INV/[Numer faktury VAT]/IDP/[Identyfikator płatności]/TXT/[Tytuł na formatce] Example /VAT/213,00/IDC/1111111111/INV/FV-201701/17/IDP/XYZ123/TXT/zaliczka DD Split payment header format: /VAT/10n,2n/IDC/14x/INV/35x/IDP/20x/TXT/33x where n – permitted digits (0-9) x – any character permitted in Elixir system.
Payment identifier	string(20)	C	B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf ++++PmtId +++++InstrId	This field is completed for direct debit transactions
Creditor's NIP (tax identification number)	string(10)	C	B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf ++++Cdtr +++++Id ++++++OrgId +++++++Othr +++++++Id	This field is completed for direct debit transactions
Other transfer type	string(2)	C	B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf ++++OthrTrsfTp	For transfer types other than the ones included in the definition: - Express Elixir – fixed value: EE - BlueCash – fixed value: BC If not agreed otherwise, a transaction is executed as Elixir (by default). If EE (Express Elixir) is selected, the maximum transaction amount is PLN 100 000.

❖ UltimateDebtor and UltimateCreditor

This section is not required. If it is used, the *required or not field* column in the table should be consulted. It contains elements related to the addresses of UltimateDebtor and UltimateCreditor. For more information on ISO 20022, please visit [ISO 20022 - Santander](#).

Field name	Field format	Field required or not?	XML element name	Comments
Ultimate debtor	string(140)	R	B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf ++++UltmtDbtr +++++Name	
Street name	string(70)		B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf ++++UltmtDbtr +++++Street	
Building number	string(16)		B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf ++++UltmtDbtr +++++BuildingNumber	
Post code	string(16)		B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf ++++UltmtDbtr +++++PostCode	
Town name	string(35)	R	B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf ++++UltmtDbtr +++++TownName	
Country	string(35)	R	B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf ++++UltmtDbtr +++++Country	

Field name	Field format	Field required or not?	XML element name	Comments
Department	string(70)		B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf ++++UltmtDbtr +++++Department	
Sub-department	string(70)		B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf ++++UltmtDbtr +++++SubDepartment	
Building name	string(35)		B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf ++++UltmtDbtr +++++BuildingName	
Floor	string(70)		B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf ++++UltmtDbtr +++++Floor	
Post box	string(16)		B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf ++++UltmtDbtr +++++PostBox	
Room	string(70)		B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf ++++UltmtDbtr +++++Room	
Town location name	string(35)		B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf ++++UltmtDbtr +++++TownLocationName	

Field name	Field format	Field required or not?	XML element name	Comments
District name	string(35)		B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf ++++UltmtDbtr +++++DistrictName	
Country sub-division	string(35)		B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf ++++UltmtDbtr +++++CountrySubDivision	
Ultimate creditor	string(140)	R	B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf ++++UltmtCdtr +++++Name	
Street name	string(70)		B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf ++++UltmtCdtr +++++Street	
Building number	string(16)		B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf ++++UltmtCdtr +++++BuildingNumber	
Post code	string(16)		B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf ++++UltmtCdtr +++++PostCode	
Town name	string(35)	R	B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf ++++UltmtCdtr +++++TownName	

Field name	Field format	Field required or not?	XML element name	Comments
Country	string(35)	R	B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf ++++UltmtCdtr +++++Country	
Department	string(70)		B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf ++++UltmtCdtr +++++Department	
Sub-department	string(70)		B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf ++++UltmtCdtr +++++SubDepartment	
Building name	string(35)		B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf ++++UltmtCdtr +++++BuildingName	
Floor	string(70)		B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf ++++UltmtCdtr +++++Floor	
Post box	string(16)		B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf ++++UltmtCdtr +++++PostBox	
Room	string(70)		B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf ++++UltmtCdtr +++++Room	

Field name	Field format	Field required or not?	XML element name	Comments
Town location name	string(35)		B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf ++++UltmtCdtr +++++TownLocationName	
District name	string(35)		B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf ++++UltmtCdtr +++++DistrictName	
Country sub-division	string(35)		B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf ++++UltmtCdtr +++++CountrySubDivision	

❖ Extension applied to US transactions

Additional fields applicable to US transactions

Field name	Field format	Field required or not?	XML element name	Comments
Payer's identifier	string(35)	C	B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf ++++Tax +++++Dbtr +++++RegnId	Payer's identifier whose first character is the identifier used and the following characters denote the identifier serial number. The field is required for all US transactions, when the transaction type is US.

Settlement period	string(35)	C	B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf ++++Tax +++++Rcrd ++++++Tp	This field consists of: - year (string(2), format: YY) - type of period (string(1)), - number of period (string(4)). The field is required for all US transactions, when the transaction type is US.
Form type	string(35)	C	B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf ++++Tax +++++Rcrd ++++++FrmsCd	Tax form code. The field is required for all US transactions, when the transaction type is US.
Payment identifier	string(35)		B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf ++++Tax +++++Rcrd ++++++AddtlInf	Payment additional information (type of document, e.g. decision, enforcement title, administrative order). The field is optional for all US transactions, when the transaction type is US.

❖ Extension applied to foreign currency transactions

Additional fields applicable to foreign currency transactions

Field name	Field format	Field required or not?	XML element name	Comments
Payment amount and currency symbol	decimal(12,2)	R	B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf ++++Amt +++++InstAmt	Amount within the range of: 0.01 - 999999999.99. Selection of the DR or CR amount side in the (extended) Sd attribute of the element, in accordance with the following rule: - for credit amounts: CR - for debit accounts: DR CR amount – represents the exact amount of transfer and currency to be received by the beneficiary whereas the account will be credited with its equivalent in the account currency. The currency of the CR side amount is recorded in the Ccy attribute, in accordance with ISO4217. As regards PLN payments from a foreign currency account (so called PLN in

				transit), PLN must be entered as the CR currency. If you want the recipient to receive 100 EUR and your account is in PLN, you enter 100 EUR as CR and the bank will convert and withdraw the appropriate amount of PLN. DR amount – means the amount to be debited to the account. The beneficiary will receive the equivalent of this amount in the transfer currency. The currency of DR side will be defined based on the sender's account. If PLN 1,000 is to be debited from your PLN account, you enter PLN 1,000 as DR, and the recipient will receive the equivalent in their currency, e.g. EUR.
--	--	--	--	--

❖ SWIFT payment extension

Additional fields applicable to SWIFT transactions

Field name	Field format	Field required or not?	XML element name	Comments
Charges account number	string(34)		B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++ChrgsAcct ++++Id +++++Othr +++++Id	Bank Account Number format.
Service level	string(4)	R	B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf ++++PmtTpInf +++++InstrPrty	Instruction priority: - normal: fixed value: NORM - same-day-value or prompt – fixed value: HIGH (see Payment type code field)
Payment type code	string(4)	C	B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf ++++PmtTpInf +++++SvcLvl +++++Cd	Field required if priority is: HIGH – processing priority: - prompt – fixed value: PRPT - same-day-value – fixed value: SDVA
Payment amount and currency symbol	decimal(12,2)	R	B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf	See the description of the field for extension applied to foreign currency payments

Field name	Field format	Field required or not?	XML element name	Comments
			++++Amt +++++InstdAmt	
Charges	string(4)	R	B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf ++++ChrgBr	Charge bearer: - beneficiary – fixed value: CRED - sender – fixed value: DEBT - beneficiary and sender – fixed value: SHAR
Beneficiary's bank	string(11)	R	B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf ++++CdtrAgt +++++FinInstnId ++++++BICFI	Beneficiary's bank BIC SWIFT If the identifier is not recognized by a given bank, the transaction will be rejected.
Beneficiary country code	string(2)	C	B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf ++++Cdtr +++++PstlAdr ++++++Ctry	Beneficiary country code compliant with ISO 31666. Field required for SWIFT transactions. Field is not appear if structured address is provided.
E-mail address	string(100)		B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf ++++Cdtr +++++CtctDtls ++++++EmailAdr	E-mail address for SWIFT payment confirmation.
SWIFT type	string(3)	R	B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf ++++PmtTpInf +++++SWFTTpe	Possible values: - standard – fixed value: STD
Negotiation number	string(32)	C	B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf ++++PmtTpInf +++++SWFTNgctnNr	This field is not used
Negotiation rate	decimal(18,4)	C	B2BImportTransactions +CstmrCdtTrfInitn ++PmtInf	This field is not used

Field name	Field format	Field required or not?	XML element name	Comments
			+++CdtTrfTxInf ++++PmtTpInf +++++SWFTNgctnRte	

➤ SEPA conditions

All the following conditions have to be met for a payment to be treated as a SEPA bank transfer:

- the beneficiary's bank participates in SEPA (Single Euro Payments Area),
- the beneficiary BIC must participate in SEPA settlements,
- creditor account number must be in IBAN format,
- normal priority must be used – fixed value: NORM
- it has to be noted that the sender of the payment and the beneficiary will pay all fees charged, fixed value: SHAR
- currency: EUR,
- creditor name: max string(70).

SEPA payments imported through Connect will not have SEPA product name in their product parameters in traditional iBiznes24 banking service.

➤ Generation of challenge shortcut

The algorithm for generating challenge shortcut for a batch of transactions is provided based on **Java** implementation. For other languages, the numerical ranges of individual primitive types should be considered in relation to the Java language.

This is done by calling the following ChallengeGen method, passing as an argument a string (challenge) derived from the data that forms the basis of the challenge:

```
public static String generateChallengeShortcut(String challengeString) {
    if (challengeString == null) {
        throw new IllegalArgumentException("Missing challenge. Shortcut for challenge could not be generated");
    }
    final char[] charArray = challengeString.toCharArray();
    int length = charArray.length;
    int i;
    int j;
    long challenge = 0;
    long blockChallenge = 0;
    for (i = j = 0; i < length; i++) {
        final char charr = Character.toUpperCase(charArray[i]);
        final boolean isDigit = charr >= '0' && charr <= '9';
        final boolean isLetter = charr >= 'A' && charr <= 'Z';

        if (isDigit || isLetter) {
```

```

if ((j++ % 8) == 0) {
    challenge = addToMaxUnsignedInt(challenge, blockChallenge);
    blockChallenge = 0;
    challenge &= 0xFFFFFFFF;
}

blockChallenge *= 10;

if (isDigit)
    blockChallenge += charr - '0';
else
    blockChallenge += (charr - 'A') % 10;
}
}

challenge = addToMaxUnsignedInt(challenge, blockChallenge);
challenge &= 0xFFFFFFFF;
long challengeToStr = challenge % 100000000L;
String challengeStr = String.valueOf(challengeToStr);
challengeStr = "00000000".concat(challengeStr).substring(challengeStr.length());
return challengeStr;
}

private static long addToMaxUnsignedInt(final long challenge, long blockChallenge) {
    long newChallenge = challenge;
    newChallenge += blockChallenge;
    if (newChallenge > UNSIGNED_INTEGER_MAX_VALUE) {
        newChallenge = newChallenge % (UNSIGNED_INTEGER_MAX_VALUE + 1);
    }
    return newChallenge;
}

private static final long UNSIGNED_INTEGER_MAX_VALUE = 4294967295L;

```

the following string of characters could be provided:

```
9804050305374650372przykladowe_dane2340.023
```

the method will return the challenge shortcut:

```
85249128
```

➤ Output parameters

Field name	Field format	Field required or not?	Name of element	Comments
Message identifier	string(35)	R	B2BRtrImportTransactions+GrpHdr	Message identifier – value from the field in original message.

			++MsgId +++Id	
Message creation date	dateTime	R	B2BRtrImportTransactions +GrpHdr ++CreDtTm	Date in XML format, e.g.: 2016-04-01T09:32:00.000+01:00
Predicted number of transactions	int	R	B2BRtrImportTransactions +OrgnlGrpInfAndSts ++OrgnlNbOfTx	Value from the field for the number of transactions in the batch (input message)
Import date	date	R	B2BRtrImportTransactions +OrgnlGrpInfAndSts ++GrpDtTm	Partial import acceptance date Date format: YYYY-MM-DD
Import status	string(4)		B2BRtrImportTransactions +OrgnlGrpInfAndSts ++GrpSts	RJCT - import rejected PART - import waiting (for completion) PDNG - import pending

4.12 GetImportStatus – getting import status

The service gets import statuses.

➤ Message signature base

The signature base results from concatenation of fields:

completed Transaction batch identifier + (Company NIK + value '1' + Timestamp)

➤ Input parameters

The message consists of:

- authentication data (Section 3.7),
- data necessary for defining transaction import query:

Field requirements: R - required element, C - conditional element, O - optional element

Field name	Field format	Field required or not?	Name of element	Comments
Message identifier	string(35)	R	B2BGetImportStatus +GrpHdr ++MsgId +++Id	A unique message identifier defined by the sender according to the format: GetImportStatus-YYYYMMDD.HHMMSS.UUU -- where UUU (optional) – is any number (can be random).
Message creation date	dateTime	R	B2BGetImportStatus +GrpHdr ++CreDtTm	Date in XML format, e.g.: 2016-04-01T09:32:00.000+01:00

Original message identifier	string(35)	N	B2BGetImportStatus +OrgnlGrpInfAndSts ++OrgnlMsgId	Message identifier from ImportTransactions (from any side in the case of paging) B2BImportTransactions +CstmrCdtTrfInItN ++GrpHdr +++MsgId ++++Id
Batch identifier	long	R	B2BGetImportStatus +OrgnlGrpInfAndSts ++BtchId	Identifier of imported batch of transactions for which import status is to be provided in Connect

➤ Output parameters

Field name	Field format	Field required or not?	Name of element	Comments
Message identifier	string(35)	R	B2BRtrGetImportStatus +GrpHdr ++MsgId +++Id	Message identifier – value from the field in original message.
Message creation date	dateTime		B2BRtrGetImportStatus +GrpHdr ++CreDtTm	Date in XML format, e.g.: 2016-04-01T09:32:00.000+01:00
Original message identifier	string(35)		B2BRtrGetImportStatus +OrgnlGrpInfAndSts ++OrgnlMsgId	Message identifier from ImportTransactions (from any side in the case of paging) B2BImportTransactions +CstmrCdtTrfInItN ++GrpHdr +++MsgId ++++Id
Batch identifier	long(19)	R	B2BRtrGetImportStatus +OrgnlGrpInfAndSts ++BtchId	Identifier of imported batch for which the service in Connect returns import statuses
Original number of transactions	int		B2BRtrGetImportStatus +OrgnlGrpInfAndSts ++OrgnlNbOfTxS	Number of transactions to be imported. If the import is pending, the returned data will not be complete.
Additional group status	string(128)		B2BRtrGetImportStatus +OrgnlGrpInfAndSts ++AddGrpSts	This field is not used
Agreed number of transactions	int	R	B2BRtrGetImportStatus +OrgnlGrpInfAndSts ++AgrdNbOfTxS	Number of transactions processed during import
Import status	string(4)	R	B2BRtrGetImportStatus +OrgnlGrpInfAndSts ++GrpSts	PART (waiting for completion) PDNG (pending) ACSP (accepted, settlement in progress)

Field name	Field format	Field required or not?	Name of element	Comments
Number of rejected transactions	int	R	B2BRtrGetImportStatus +OrgnlGrpInfAndSts ++RjctdNbOfTxs	Number of rejected transactions in import, not imported to iBiznes24.
Transaction batch details				
Number of entered transactions	int	R	B2BRtrGetImportStatus +OrgnlGrpInfAndSts ++EntNbOfTxs	
Number of partly accepted transactions	int	R	B2BRtrGetImportStatus +OrgnlGrpInfAndSts ++PrtAccNbOfTxs	
Number of accepted transactions	int	R	B2BRtrGetImportStatus +OrgnlGrpInfAndSts ++AccNbOfTxs	
Number of posted transactions	int	R	B2BRtrGetImportStatus +OrgnlGrpInfAndSts ++PstdNbOfTxs	
Number of rejected posting transactions	int	R	B2BRtrGetImportStatus +OrgnlGrpInfAndSts ++RjctdPstdNbOfTxs	
Number of cancelled transactions	int	R	B2BRtrGetImportStatus +OrgnlGrpInfAndSts ++CncldNbOfTxs	

4.13 GetTransactionsStatus – getting transaction import status

The service gets transaction import log.

➤ Message signature base

The signature base results from concatenation of fields:

completed Transaction batch identifier + Page number + Transaction status + (Company NIK + value '1' + Timestamp)

➤ Input parameters

The message consists of:

- authentication data (Section 3.7),
- data necessary for defining transaction log query:

Field requirements: R - required element, C - conditional element, O - optional element

Field name	Field format	Field required or not?	Name of element	Comments
Message identifier	string(35)	R	B2BGetTransactionsStatus +GrpHdr ++MsgId +++Id	A unique message identifier defined by the sender according to the format: GetTransStatus-YYYYMMDD.HHMMSS.UUU -- where UUU (optional) – is any number (can be random).
Message creation date	dateTime	R	B2BGetTransactionsStatus +GrpHdr ++CreDtTm	Date in XML format, e.g.: 2016-04-01T09:32:00.000+01:00
Original message identifier	string(35)		B2BGetTransactionsStatus +OrgnlGrpInfAndSts ++OrgnlMsgId	Message identifier from ImportTransactions (from any side in the case of paging) B2BImportTransactions +CstmrCdtTrfIntr ++GrpHdr +++MsgId ++++Id
Batch identifier	long(19)	R	B2BGetTransactionsStatus +OrgnlGrpInfAndSts ++BtchId	Identifier of transaction batch for which the service is to return transaction status in Connect
Page number	short		B2BGetTransactionsStatus +OrgnlGrpInfAndSts ++CrrtPge	Current page in import log in relation to which data are to be imported Missing field means the first page.
Transaction status	string(35)		B2BGetTransactionsStatus +OrgnlGrpInfAndSts ++TxSts	Return of transactions for a given status (see the status field in input parameters)

➤ Output parameters

Field name	Field format	Field required or not?	Name of element	Comments
Message identifier	string(35)	R	B2BRtrGetTransactionsStatus +GrpHdr ++MsgId +++Id	Message identifier – value from the field in original message.
Message creation date	dateTime		B2BRtrGetTransactionsStatus +GrpHdr ++CreDtTm	Date in XML format, e.g.: 2016-04-01T09:32:00.000+01:00

Field name	Field format	Field required or not?	Name of element	Comments
Original message identifier	string(35)		B2BRtrGetTransactionsStatus +OrgnlGrpInfAndSts ++OrgnlMsgId	Message identifier from ImportTransactions (from any side in the case of paging) B2BImportTransactions +CstmrCdtTrfInItN ++GrpHdr +++MsgId ++++Id
Batch identifier	Long(19)	R	B2BRtrGetTransactionsStatus +OrgnlGrpInfAndSts ++BtchId	Batch identifier for which the service returns imported transaction statuses in Connect
Original number of transactions	int	R	B2BRtrGetTransactionsStatus +OrgnlGrpInfAndSts ++OrgnlNbOfTxS	Number of transactions in batch
Page number	short	R	B2BRtrGetTransactionsStatus +OrgnlGrpInfAndSts ++CrrtPge	Page number in message containing returned transaction statuses.
Total number of pages	short	R	B2BRtrGetTransactionsStatus +OrgnlGrpInfAndSts ++TtlPgs	Total number of pages: messages with transaction statuses.
Statuses of individual transactions in a batch – TxInfAndSts contains elements related to transaction and can appear many times – for each transaction				
Original instruction identifier	long(19)	R	B2BRtrGetTransactionsStatus +OrgnlPmtInfAnsSts ++TxInfAndSts +++OrgnlInstrId	Original instruction identifier
Transaction status	string(35)	R	B2BRtrGetTransactionsStatus +OrgnlPmtInfAnsSts ++TxInfAndSts +++TxSts	Current transaction status: RCVD – Received PART – Partially accepted RJCT – Rejected, not entered ACSP – Accepted, settlement in process ACSC – Accepted, settlement completed ACPT – Accepted ACCR – Cancelled
Transaction status – error code	string(4)	C	B2BRtrGetTransactionsStatus +OrgnlPmtInfAnsSts ++TxInfAndSts +++StsRsnInf ++++Rsn +++++Cd	This field is used when the status of the last operation is wrong. Non-imported transactions – status reason code
Transaction status date	dateTime		B2BRtrGetTransactionsStatus +OrgnlPmtInfAnsSts	Acceptance datetime

Field name	Field format	Field required or not?	Name of element	Comments
			++TxInfAndSts +++AcptncDtTm	
CR amount and currency symbol	decimal(12,2) R		B2BRtrGetTransactionsStatus +OrgnlPmtInfAnsSts ++TxInfAndSts +++ChrgsInf ++++Amt	Currency is provided in element's Ccy attribute, in accordance with ISO4217. The amount, in the case of an integer, can appear without a decimal part.
Payment CR amount and currency symbol	decimal(18,2) R		B2BRtrGetTransactionsStatus +OrgnlPmtInfAnsSts ++TxInfAndSts +++ChrgsInf ++++AmtCR	Currency is provided in element's Ccy attribute, in accordance with ISO4217. The amount, in the case of an integer, can appear without a decimal part.
Exchange rate table	short	R	B2BRtrGetTransactionsStatus +OrgnlPmtInfAnsSts ++TxInfAndSts +++PmtTpInf +++++SWFTNrFxdRte	Field returned if a negotiable rate SWIFT is made otherwise the value is 0.

4.14 CancelTransactions – cancellation of transactions transferred for execution/ accepted

The service cancels transactions transferred for execution or accepted.

This operation is possible:

- if transaction status is: Accepted (ACPT) or transferred for execution/ processed in the bank – accepted, settlement in progress (ACSP), when the transaction execution date falls later than the current date,
- in relation to a company which is the transaction's owner.

The user's transaction value limit will not be restored to reflect the value of the cancelled transaction if it had been previously accepted.

➤ Message signature base

The signature base results from concatenation of fields:

Cancelling user's NIK +(completed Transaction identifier) + (Company NIK + value '1' + Timestamp)

➤ Input parameters

The message consists of:

- authentication data (Section 3.7),
- data necessary for transaction cancellation:

Field requirements: R - required element, C - conditional element, O - optional element

Field name	Field format	Field required or not?	Name of element	Comments
Message identifier	string(35)	R	B2BCancelTransactions +GrpHdr ++MsgId +++Id	A unique message identifier defined by the sender according to the format: CancelTrans-YYYYMMDD.HHMMSS.UUU -- where UUU (optional) – is any number (can be random).
Message creation date	dateTime	R	B2BCancelTransactions +GrpHdr ++CreDtTm	Date in XML format, e.g.: 2016-04-01T09:32:00.000+01:00
Cancelling party's NIK	string(35)	R	B2BCancelTransactions +GrpHdr ++CnclNIK	
CdtTrfTxInf contains elements related to cancelled transactions and can occur many times – for individual transactions.				
End-to-end identifier	long(19)	R	B2BCancelTransactions +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf ++++PmtId +++++EndToEndId	End to end identifier of a transaction to be cancelled by the bank system, permitted digits (0-9).

➤ Output parameters

Field name	Field format	Field required or not?	Name of element	Comments
Message identifier	string(35)	R	B2BRtrCancelTransactions +GrpHdr ++MsgId +++Id	Message identifier – value from the field in original message.
Message creation date	dateTime		B2BRtrCancelTransactions +GrpHdr ++CreDtTm	Date in XML format, e.g.: 2016-04-01T09:32:00.000+01:00 This field is not used
TxInfAndSts contains elements related to transactions and can occur many times – for individual transactions.				
Original instruction identifier	long(19)	R	B2BRtrCancelTransactions +OrgnlPmtInfAnsSts	Original instruction identifier

Field name	Field format	Field required or not?	Name of element	Comments
			++TxInfAndSts +++OrgnlInstrId	
Cancellation status	string(3)	R	B2BTrCancelTransactions +OrgnlPmtInfAnsSts ++TxInfAndSts +++TxCnclSts	Successful transaction cancellation status: OK - transaction cancelled ERR - cancellation failed

4.15 GetTransactionDetails – getting transaction details

The service gets transaction details.

This operation can be performed only in relation to a company which is the transaction's owner.

➤ Message signature base

The signature base results from concatenation of fields:

completed Transaction identifier + (Company NIK + value '1' + Timestamp)

➤ Input parameters

The message consists of:

- authentication data (Section 3.7),
- data necessary for defining transaction details query.

Field requirements: R - required element, C - conditional element, O - optional element

Field name	Field format	Field required or not?	Name of element	Comments
Message identifier	string(35)	R	B2BGetTransactionDetails +GrpHdr ++MsgId +++Id	A unique message identifier defined by the sender according to the format: GetTranDetails-YYYYMMDD.HHMMSS.UUU -- where UUU (optional) – is any number (can be random).
Message creation date	dateTime	R	B2BGetTransactionDetails +GrpHdr ++CreDtTm	Date in XML format, e.g.: 2016-04-01T09:32:00.000+01:00
Original message identifier	string(35)		B2BGetTransactionDetails +OrgnlGrpInfAndSts ++OrgnlMsgId	Message identifier from ImportTransactions (from any side in the case of paging) B2BImportTransactions

				+CstmrCdtTrfInItN ++GrpHdr +++MsgId ++++Id
Original instruction identifier	long(19)	R	B2BGetTransactionDetails +TxInfAndSts ++OrgnlInstrId	Identifier of transaction for which status is requested: OrgnlInstrId from ImportTransactions

➤ Output parameters

Field name	Field format	Field required or not?	Name of element	Comments
Message identifier	string(35)	R	B2BRtrGetTransactionDetails +GrpHdr ++MsgId +++Id	Message identifier – value from the field in original message.
Message creation date	dateTime		B2BRtrGetTransactionDetails +GrpHdr ++CreDtTm	Date in XML format, e.g.: 2016-04-01T09:32:00.000+01:00
Original message identifier	string(35)		B2BRtrGetTransactionDetails +OrgnlGrpInfAndSts ++OrgnlMsgId	Message identifier from ImportTransactions (from any side in the case of paging) B2BImportTransactions +CstmrCdtTrfInItN ++GrpHdr +++MsgId ++++Id
Batch identifier	long(19)	R	B2BRtrGetTransactionDetails +OrgnlGrpInfAndSts ++BtchId	Identifier of batch to which the transaction belongs.
Original instruction identifier	long(19)	R	B2BRtrGetTransactionDetails +OrgnlPmtInfAnsSts ++TxInfAndSts +++OrgnlInstrId	Original instruction identifier
Transaction status	string(35)	R	B2BRtrGetTransactionDetails +OrgnlPmtInfAnsSts ++TxInfAndSts +++TxSts	Current transaction status – see B2BGetTransactionsStatusResp. Transaction status
Transaction status – error code	string(4)	C	B2BRtrGetTransactionDetails +OrgnlPmtInfAnsSts ++TxInfAndSts +++StsRsnInf ++++Rsn +++++Cd	This field is used when the status of the last operation is wrong.

Field name	Field format	Field required or not?	Name of element	Comments
Transaction status date	dateTime		B2BRtrGetTransactionDetails +OrgnlPmtInfAnsSts ++TxInfAndSts +++AcptncDtTm	Acceptance datetime – see: B2BGetTransactionsStatusResp. Acceptance datetime
CR amount and currency symbol	decimal(12,2)	R	B2BRtrGetTransactionDetails +OrgnlPmtInfAnsSts ++TxInfAndSts +++ChrgsInf ++++Amt	Currency is provided in element's Ccy attribute, in accordance with ISO4217. The amount, in the case of an integer, can appear without a decimal part.
Payment CR amount and currency symbol	decimal(18,2)	R	B2BRtrGetTransactionDetails +OrgnlPmtInfAnsSts ++TxInfAndSts +++ChrgsInf ++++AmtCR	Currency is provided in element's Ccy attribute, in accordance with ISO4217. The amount, in the case of an integer, can appear without a decimal part.
Exchange rate table	short		B2BRtrGetTransactionDetails +OrgnlPmtInfAnsSts ++TxInfAndSts +++PmtTpInf ++++SWFTNrFxdRte	The field returns a value of 1 when the transaction is subject to currency conversion; otherwise, it returns a value of 0.
<i>Extension applied to SWIFT transactions – when the execution method changes, such information will be provided.</i>				
SWIFT service level	string(4)		B2BRtrGetTransactionDetails +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf ++++PmtTpInf +++++InstrPrty	Priority of SWIFT execution. Values consistent with Service level in ImportTransactions.
Payment type code	string(4)		B2BRtrGetTransactionDetails +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf ++++PmtTpInf +++++SvcLvl +++++Cd	Priority is defined if it is: HIGH. Values consistent with the field Payment type code in ImportTransactions service.
SWIFT date	date		B2BRtrGetTransactionDetails +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf	SWIFT instruction date. Date format: YYYY-MM-DD

Field name	Field format	Field required or not?	Name of element	Comments
			++++PmtTpInf +++++InstrPrDtme	
Date of transaction transfer to SWIFT	dateTime		B2BRtrGetTransactionDetails +CstmrCdtTrfInitn ++PmtInf +++CdtTrfTxInf ++++PmtTpInf +++++InstrPrDtTme	Date and time of transaction transfer to SWIFT.

4.16 GetRepTransactionOrderConfirmation – transaction report

The service gets transaction details (as a report).

This operation can be performed only in relation to a company which is the transaction's owner.

The process of getting the report is split into two stages:

- report generation is ordered,
- report is downloaded.

When ordering the report, the Original instruction identifier should be provided. The "Report order identifier" is returned to be provided when downloading the report.

➤ Message signature base

The signature base results from concatenation of fields:

- Report order

("E_TRN_BUSINESS_ID" + completed Original instruction identifier) + (Company's NIK + value '1' + Timestamp)

- report generation

(Company NIK + value '1' + Timestamp)

➤ Input parameters

The message consists of:

- authentication data (Section 3.7),
- data necessary for defining transaction details query.

Field requirements: R - required element, C - conditional element, O - optional element

Field name	Field format	Field required or not?	Name of element	Comments
Message identifier	string(35)	R	B2BGetRepTransactionOrderConfirmation +GrpHdr ++MsgId +++Id	A unique message identifier defined by the sender according to the format: GetRepTranOCon-YYYYMMDD.HHMMSS.UUU - where UUU (optional) – is any number (can be random).
Message creation date	dateTime	R	B2BGetRepTransactionOrderConfirmation +GrpHdr ++CreDtTm	Date in XML format, e.g.: 2016-04-01T09:32:00.000+01:00
Report format	string(4)		B2BGetRepTransactionOrderConfirmation +GrpHdr ++RprtFrmt	Report result format: - PDF - HTML - CSV Default: PDF The report format needs to be defined for a new report generation order.
Report order identifier	string(32)	C	B2BRtrGetRepTransactionOrderConfirmation +GrpHdr ++RprtId	Report generation request identifier. Field required if a previously ordered report is downloaded, where an identifier was returned as a result of such an order.
TxInfAndSts contains elements related to transactions that the report refers to and can occur many times – for individual transactions.				
Original identifier	long	R	B2BGetRepTransactionOrderConfirmation +TxInfAndSts ++OrgnlInstrId	Identifier of transactions for which a report is to be returned. Reports are only possible with respect to booked transactions. Field required in the case of a new report generation request. The field will be ignored if the report order identifier field is provided.

➤ Output parameters

Field name	Field format	Field required or not?	Name of element	Comments
Message identifier	string(35)	R	B2BRtrGetRepTransactionOrderConfirmation +GrpHdr	Message identifier – value from the field in original message.

			++MsgId +++Id	
Message creation date	dateTime		B2BRtrGetRepTransactionOrderConfirmation +GrpHdr ++CreDtTm	Date in XML format, e.g.: 2016-04-01T09:32:00.000+01:00
Report status	string(3)	R	B2BRtrGetRepTransactionOrderConfirmation +GrpHdr ++RprtSts	Report status – the first request is to generate the report and the next one returns the report generation status or the report if generated: - ERROR – report generation rejected/ error while generating report, report will not be generated - GENERATING – report generation request is processed (in progress) - GENERATED – report generated
Report order identifier	string(32)	C	B2BRtrGetRepTransactionOrderConfirmation +GrpHdr ++RprtId	Report generation order identifier. Information returned if the report status is different than ERROR.
Report body format	string(3)	C	B2BRtrGetRepTransactionOrderConfirmation +GrpHdr ++RprtBdyFmt	Report format: - ZIP – ZIP file - TXT – text file - BIN – binary file format (e.g. PDF file) Data returned for a generated report contained in Report data field.
Report format	string(4)	W	B2BRtrGetRepTransactionOrderConfirmation +GrpHdr ++RprtFmt	Report format. Data returned for a generated report contained in Report data field.
Report data	base64Binary	C	B2BRtrGetRepTransactionOrderConfirmation +GrpHdr ++RprtDt	Report generated in binary data format (Base64 format). Data returned if a report is generated.