

DataConnect V4

PortfolioCenter Export Guide

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ABOUT THIS GUIDE

This guide describes DataConnect operations that are used to obtain a PortfolioCenter Export. These operations are available in a limited release and are subject to change. Please refer to the one of the guides below for core DataConnect information as well as information on all other DataConnect operations.

- [DataConnect V4 Lite User Guide](#)
- [DataConnect V4 Ultra User Guide](#)

For information about the export files, refer to:

- [AccountView Export Files for PortfolioCenter](#)

DATACONNECT PORTFOLIOCENTER EXPORT

Overview

Your firm can be configured to obtain a PortfolioCenter data export via the core ByAllAccounts AccountView/DataConnect platform. This capability was previously provided by a product called Custodial Integrator, but that product is being replaced with the PortfolioCenter export in AccountView.

The PortfolioCenter export is configured and managed at the Advisor level. It contains state information to keep track of which accounts, positions, and transactions have been previously delivered to you via PortfolioCenter export to ensure that each time you do an export you receive only transaction data that is new since the prior export. Whether you create the export using AccountView or using DataConnect, the same configuration and state information is used and updated when you do that export. You may wish to do the export via DataConnect so that you can automate it, for example, if you have a large-scale operation.

Obtaining a PortfolioCenter Export

To obtain the PortfolioCenter Export, you must call several different DataConnect operations in series:

1. DataExport2RQ_A – this asynchronous operation prepares the PortfolioCenter Export files. If you are not allowed to perform this operation, you will receive an immediate DataExport2RS response with an error message. If the operation is allowed and can be executed, then you will receive a RECEIPT that you can use to poll the status of the export operation.
2. DataClaimRQ – invoke this operation with the RECEIPT from #1 to determine if the export is complete and to get the final status of the export. This operation will return an “in progress” message if the export is still running; if the operation completed, then you will receive back the DataExport2RS_A response which will provide a status code and for successful exports will also include the unique numeric identifier (ID) for the export file set. The DataClaimRQ operation is described in the DataConnect V4 Ultra User Guide.
3. FileClaimRQ – invoke this operation with the file ID from #2 to collect your file. Its response is the stream of the zip file containing the PortfolioCenter export data files.

There are also helper operations:

- DataExport2FileListRQ, which you can call at any time to obtain a list of the completed PortfolioCenter exports available to you. In the response you will receive an ID for each export file set, and you can use FileClaimRQ with that ID to retrieve the export.
- ExportConfigGetRQ_A to obtain a zip file containing the configuration exports requested.

PortfolioCenter Export Operation Summary

The following table lists the DataConnect operations required for PortfolioCenter export. They include the purpose of each operation and its associated Request/Response pair.

PortfolioCenter Export Operations		
Export Data 2	Used to create a PortfolioCenter Export file set based on a single export configuration that contains state information.	<u>Request:</u> <DATAEXPORT2RQ A> <u>Response:</u> <DATAEXPORT2RS A>
Claim Data	Retrieves data resulting from a previously requested asynchronous operation.	<u>Request:</u> <DATACLAIMRQ> <u>Response:</u> <DATACLAIMRS>
Claim File	Used in conjunction with the Export Data 2 (Asynchronous) operation to download the ZIP file.	<u>Request:</u> <FILECLAIMRQ> for PortfolioCenter Export <u>Response:</u> ZIP file containing CSV exports or <FILECLAIMRS>
Export Data 2 List File	Allows user to obtain a list of all previously created PortfolioCenter Exports that are available for download. This list includes the ID and status information for each of the available PortfolioCenter Exports.	<u>Request:</u> <DATAEXPORT2FILELISTRQ> <u>Response:</u> <DATAEXPORT2FILELISTRS>
Configure Export	Retrieves a zip file containing the configuration exports requested.	<u>Request:</u> <EXPORTCONFIGGETRQ A> <u>Response:</u> <EXPORTCONFIGGETRS A>

Export Data 2

Purpose

Used in DataConnect to produce PortfolioCenter Exports. This is an asynchronous operation. Asynchronous operations are described in the DataConnect user guides.

Restrictions

The following restrictions apply to this operation:

- The credentials provided in the **<LOGINRQ>** accompanying this operation must be an Advisor or a read-write (RW) Assistant.

Request: <DATAEXPORT2RQ_A>

The <DATAEXPORT2RQ_A> request can be used as an empty tag to request that the PortfolioCenter export be performed using the current configuration and state information. This request means that the operation will export transactions created in the system since the last export as well as prices for business days (up to 6 business days) that have occurred since the last export. It can optionally contain the following to request additional transaction history for individual accounts.

Tag	Required	Data Type	Description
<TX_START_DATE>		DATE	Specifying a TX_START_DATE requests that for all accounts that are in scope, transactions in those accounts with trade date on or after TX_START_DATE be included in this export. Additional account-specified overrides may be given in addition to this using EXPORT2_DATA_QUERY.
<NUMBERDAYSHXPRICE>		Integer	<p>Sets a specified number of days of historical price files. Valid range is 1 through 6.</p> <p>When this parameter is not set, the default behavior is that a price file is generated for each business day that has occurred since the last execution of CI Export, up to 6 days. If there are no prices available for a given day, then a file will not be generated.</p> <p>When NUMBERDAYSHXPRICE is used, the value always overrides the default number of price files that would have been created.</p>
<EXPORT2_DATA_QUERY>		Aggregate	Use this aggregate to provide a TX_START_DATE for individual accounts. If a TX_START_DATE (above) is also specified, then that date is used for any accounts that are not specifically listed in the EXPORT2_DATA_QUERY aggregate.

<EXPORT2_DATA_QUERY> Aggregate

<EXPORT2_DATA_QUERY> must contain the following:

Tag	Required	Field	Description
<ACCOUNT_TX_QUERY>	√	Aggregate	ACCOUNT_TX_QUERY tag which will accept one or more Account IDs and TX_START_DATE.

<ACCOUNT_TX_QUERY> Aggregate

<ACCOUNT_TX_QUERY> must contain the following:

Tag	Required	Field	Description
<ID>	√	Account.ID	For the account identified by <ID>, if that account is to be included in the export based on other configuration settings, then this requests that transactions with trade date on or after TX_START_DATE be included in the export.
<TX_START_DATE>	√	DATE	For the account identified by <ID>, if that account is to be included in the export based on other configuration settings, then this requests that transactions with trade date on or after TX_START_DATE be included in the export.

The following example **ACCOUNT_TX_QUERY** shows how to request different start dates per account:

```
<ACCOUNT_TX_QUERY>
  <ID>123</ID>
  <TX_START_DATE>20160510</TX_START_DATE>
  <ID>125</ID>
  <TX_START_DATE>20160511</TX_START_DATE>
</ACCOUNT_QUERY>
```


Response: <DATAEXPORT2RS_A>

The <DATAEXPORT2RS_A> response is either a status response or an operation complete response. The initial response to the <DATAEXPORT2RQ_A> request contains the following:

Tag	Required	Data Type	Description
<STATUS>	√		The <STATUS> aggregate as described in the DataConnect guides.
<RECEIPT>		RECEIPT64	Receipt for the client to inquire at a later time about the result of this operation. Only issued if <STATUS> is successful.
<RECEIPT_EXP>		TIMESTAMP	Expiration time of <RECEIPT>. Present only if <RECEIPT> is present.
<CLAIM_WAIT>		NUMBER	Number of milliseconds to wait before attempting to retrieve the results of the Export Data 2 operation via the Claim Data request. Present only if <RECEIPT> is present.

This response provides the receipt needed to claim the results of the **Export Data 2** operation at a later time. A <DATACLAIMRQ> must be subsequently submitted to check on the status of the **Export Data 2** operation and retrieve the final results of the operation. Once the operation is completed, a <DATAEXPORT2RS_A> response containing the following is received:

Tag	Required	Field	Description
<STATUS>	√		The <STATUS> aggregate as described in the DataConnect guides.
<ID>		DataExport2File.ID	Unique ID assigned to this export file. Only provided if the export operation was successful.

Errors

Error Code	Severity	Error Message
0	Success	Success
65547	Error	An internal error occurred
65723	Error	The transaction date range is invalid
65731	Error	The transaction start date is invalid
65739	Error	The transaction end date is invalid
65779	Error	The specified ID is outside the valid range of 0 to 999999999999999999
65851	Error	The today date override is invalid
65859	Error	The specified number of days of historical price file is outside the valid range of 1 to 6
65947	Error	Caller is not authorized to make this request
66139	Error	The profile was not found
67795	Error	The account was not found
67698	Warning	Account file not completed
67706	Warning	Position file not completed
67714	Warning	Transaction file not completed
67722	Warning	Multiple files not completed

Sample XML

This sample shows a series of requests and responses using the operations described in this guide.

```
<DATACONNECTRQ>
  <VERSION>VERSION4.0</VERSION>
  <LOGINRQ>...</LOGINRQ>
  <DATAEXPORT2RQ_A></DATAEXPORT2RQ_A>
</DATACONNECTRQ>
```

The following is a sample initial response:

```
<DATACONNECTRS>
  <VERSION>VERSIONX.X</VERSION>
  <LOGINRS>
    <STATUS>
      <ERRCODE>0</ERRCODE>
      <ERRMSG>Success</ERRMSG>
    </STATUS>
  </LOGINRS>
  <DATAEXPORT2RS_A>
    <STATUS>
      <ERRCODE>0</ERRCODE>
      <ERRMSG>Operation started</ERRMSG>
    </STATUS>
    <RECEIPT>1199624478398742657 </RECEIPT>
    <RECEIPT_EXP>20160525100732 [-5:EDT]</RECEIPT_EXP>
    <CLAIM_WAIT>1000</CLAIM_WAIT>
  </DATAEXPORT2RS_A>
</DATACONNECTRS>
```

The following is a sample data claim request. This request and its corresponding response are repeated until the successful response is received with an ID:

```
<DATACONNECTRQ>
  <VERSION>VERSION4.0</VERSION>
  <LOGINRQ>...</LOGINRQ>

  <DATACLAIMRQ>
    <RECEIPT>1199624478398742657</RECEIPT>
  </DATACLAIMRQ>

</DATACONNECTRQ>
```

The following is a sample response:

```
<DATACONNECTRS>
  <VERSION>VERSION4.0</VERSION>
  <LOGINRS>...</LOGINRS>
  <DATACLAIMRS>
    <STATUS>
```

```
<ERRCODE>0</ERRCODE>
  <ERRMSG>Operation in progress </ERRMSG>
</STATUS>
<RECEIPT>1199624478398742657</RECEIPT>
<CLAIM_WAIT>5000</CLAIM_WAIT>
</DATACLAIMRS>
</DATACONNECTRS>
```

The following is a sample success response with the ID:

```
<DATACONNECTRS>
<VERSION>VERSION4.0</VERSION>
  <LOGINRS>
    <STATUS>
      <ERRCODE>0</ERRCODE>
      <ERRMSG>Success</ERRMSG>
    </STATUS>
  </LOGINRS>
  <DATAEXPORT2RS_A>
    <STATUS>
      <ERRCODE>0</ERRCODE>
      <ERRMSG>Success</ERRMSG>
    </STATUS>
    <ID>21371</ID>
  </DATAEXPORT2RS_A>
</DATACONNECTRS>
```

The following is a sample request for the files:

```
<DATACONNECTRQ>
  <VERSION>VERSION4.0</VERSION>
  <LOGINRQ>...</LOGINRQ>
  <FILECLAIMRQ>
    <ID>21371</ID>
  </FILECLAIMRQ>
</DATACONNECTRQ>
```

The following is a sample response in case of success:

The response is a ZIP file stream that includes mandatory files README.txt and BAAtrace_YYYYMMDD.log; optionally includes files ADYYMMDD.TRD, ADYYMMDD.TRN, ADYYMMDD.INI, ADYYMMDD.POS, ADYYMMDD.PRI, ADYYMMDD.SEC.

Claim Data

Purpose

Retrieves data resulting from a previously requested asynchronous operation.

Restrictions

The following restrictions apply to this operation:

The credentials provided in the **<LOGINRQ>** accompanying this operation and the credential used to originally submit the operation request must be identical. If they are not, an error is returned.

Request: <DATACLAIMRQ>

The **<DATACLAIMRQ>** can contain the following:

Tag	Required	Data Type	Description
<RECEIPT>	√	RECEIPT64	Receipt previously issued to the DataConnect client for an asynchronous operation.

Response: <DATACLAIMRS>

The following is a response to a **<DATACLAIMRQ>** request.

If the asynchronous operation is not completed, a **<DATACLAIMRS>** response containing the following is returned:

Tag	Required	Data Type	Description
<STATUS>	√		See <STATUS> aggregate description.
<RECEIPT>	√	RECEIPT64	Receipt provided in request.
<CLAIM_WAIT>			Provided only if <RECEIPT> is valid. Value is the number of milliseconds to wait before reattempting the Claim Data request.

The status typically indicates that the operation is in progress, or it could report that the receipt expired.

If the asynchronous operation is complete, the data returned is the full response for that operation and is one of the following, and the **<DATACLAIMRS>** response tags are not used:

- **<DATAGETRS_A>**
- **<ACCTTESTRS_A>**
- **<ACCTUPDRS_A>**

Errors

This operation may return the following errors in the **<STATUS>** portion of the response:

Error Code	Severity	Error Message
0	Success	Success
0	Success	Operation started
0	Success	Operation in progress
65547	Error	An Internal error occurred
65570	Warning	The operation did not complete in its allotted time
65579	Error	The receipt has expired

Sample XML

The following is a sample request:

```
<DATACONNECTRQ>
  <VERSION>VERSION4.0</VERSION>
  <LOGINRQ>...</LOGINRQ>

  <DATACLAIMRQ>
    <RECEIPT>4456858471129290880</RECEIPT>
  </DATACLAIMRQ>
</DATACONNECTRQ>
```

The following is a sample response:

```
<DATACONNECTRS>
  <VERSION>VERSION4.0</VERSION>
  <LOGINRS>...</LOGINRS>
  <DATACLAIMRS>
    <STATUS>
      <ERRCODE>0</ERRCODE>
      <ERRMSG>Operation in progress </ERRMSG>
    </STATUS>
    <RECEIPT>4456858471129290880</RECEIPT>
    <CLAIM_WAIT>5000</CLAIM_WAIT>
  </DATACLAIMRS>
</DATACONNECTRS>
```

Claim File

The Claim File request is described in the *DataConnect V4 Ultra User Guide* and *DataConnect V4 Lite User Guide*. The information here provides details specific to its use with DATAEXPORT2RQ_A.

Purpose

The Claim File is used to retrieve a file that is the result of a previous Export request. There are various types of exports, of which PortfolioCenter Export is one.

Restrictions

The following restrictions apply to this operation:

- When Claim File is used to claim a PortfolioCenter Export, the credentials provided in the **<LOGINRQ>** accompanying this operation must be an Advisor or an Assistant.

Behavior

- Use of a RECEIPT with FILECLAIMRQ is not supported for DataExport2RQ_A operations. If a RECEIPT related to a DataExport2RS_A operation is provided, this operation will return the error code "Receipt has expired" returned in the response.
- Performing FileClaimRQ successfully will result in the "Last Downloaded Date" on that file to be updated to the current time.

Request: <FILECLAIMRQ> for PortfolioCenter Export

For PortfolioCenter export, the **<FILECLAIMRQ>** request can contain the following:

Tag	Required	Field	Description
<ID>	*	ID	The ID of the DataExport2File. This may originate from a DataExport2RQ_A operation or from a DataExport2FileList operation.

Response

Response is a ZIP file containing CSV exports or <FILECLAIMRS>. See [DataConnect V4 Lite User Guide](#) or [DataConnect V4 Ultra User Guide](#).

Errors

Error Code	Severity	Error Message
0	Success	Success
65547	Error	An internal error occurred
65947	Error	Caller is not authorized to make this request
67859	Error	Export file could not be found
67499	Error	Export files not generated

Sample XML

The following is a sample request:

```
<DATACONNECTRQ>
  <VERSION>VERSION4.0</VERSION>
  <LOGINRQ>...</LOGINRQ>
  <FILECLAIMRQ>
    <ID>445685</ID>
  </FILECLAIMRQ>
</DATACONNECTRQ>
```

The following is a sample response in case of error:

```
<DATACONNECTRS>
  <VERSION>VERSION4.0</VERSION>
  <LOGINRS>...</LOGINRS>
  <FILECLAIMRS>
    <STATUS>
      <ERRCODE>67859</ERRCODE>
      <ERRMSG>Export file could not be found</ERRMSG>
    </STATUS>
  </FILECLAIMRS>
</DATACONNECTRS>
```

The following is a sample response in case of success:

The response is a ZIP file stream that includes mandatory files README.txt and BAAtrace_YYYYMMDD.log; optionally includes files ADYYMMDD.TRD, ADYYMMDD.TRN, ADYYMMDD.INI, ADYYMMDD.POS, ADYYMMDD.PRI, ADYYMMDD.SEC.

Export Data 2 List File

Purpose

Allows user to obtain a list of all PortfolioCenter Export Files available to them, including the ID and status information for each of those.

Restrictions

The following restrictions apply to this operation:

The credentials provided in the **<LOGINRQ>** accompanying this operation must be an Advisor or an Assistant.

Request: <DATAEXPORT2FILELISTRQ>

The **<DATAEXPORT2FILELISTRQ/>** does not contain any elements (it is an empty tag).

Response: <DATAEXPORT2FILELISTRS>

A **<DATAEXPORT2FILELISTRS>** response contains the following:

Tag	Required	Data Type	Description
<STATUS>	√		This is the status of the <DATAEXPORT2FILELISTRQ> operation itself. The <STATUS> aggregate as described in the DataConnect guides.
<DATAEXPORT2FILELIST>	√		A list of <DATAEXPORT2FILE> entries. This field is required, but it may be empty if no exports are available.

The **<DATAEXPORT2FILELIST>** contains a list of **DATAEXPORT2FILE** objects:

Tag	Required	Data Type	Description
<DATAEXPORT2FILE>			One for each CI Export entry.

The **<DATAEXPORT2FILE>** object is defined as:

Tag	Required	Data Type	Description
<ID>	√	ID	The unique ID for this DataExport2File.
<FILE_STATUS>	√	CHAR32	The file status, either "SUCCESS" or "COMPLETED_WITH_ERRORS"
<FILE_EXPIRATION_DATETIME>	√	TIMESTAMP	The time at which the export file will expire.
<FILE_NAME>	√	CHAR128	The generated file name for this DataExport2File entry.
<CREATION_DATETIME>	√	TIMESTAMP	The time at which the file was created
<PRIOR_BUSINESS_DAY_DATE>	√	DATE	The prior business day date – the positions in the export are as of the close of this date.
<LAST_DOWNLOADED_DATETIME>		TIMESTAMP	The time at which the file was last downloaded. Absence of this tag indicates file has never been downloaded.

Errors

This operation may return the following errors in the **<STATUS>** portion of the response:

Error Code	Severity	Error Message
0	Success	Success
65547	Error	An internal error occurred
65947	Error	Caller is not authorized to make this request

Sample XML

The following is a sample request:

```
<DATACONNECTRQ>
  <VERSION>VERSION4.0</VERSION>
</LOGINRQ>...</LOGINRQ>
  <DATAEXPORT2FILELISTRQ/>
</DATACONNECTRQ>
```

The following is a sample response:

```
<DATACONNECTRS>
  <VERSION>VERSION4.0</VERSION>
  <LOGINRS>...</LOGINRS>
  <DATAEXPORT2FILELISTRS>
    <STATUS>
      <ERRCODE>0</ERRCODE>
      <ERRMSG>Success</ERRMSG>
    </STATUS>
    <DATAEXPORT2FILELIST>
      <DATAEXPORT2FILE>
        <ID >445685</ID >
        <FILE_STATUS>SUCCESS</FILE_STATUS>
        <FILE_EXPIRATION_DATETIME>20160225143522 [-5:EST]
        </FILE_EXPIRATION_DATETIME>
        <FILE_NAME>export_20160211_20160212133157.zip</FILE_NAME>
        <CREATION_DATETIME>20160211143522 [-5:EST]</CREATION_DATETIME>
        <PRIOR_BUSINESS_DAY_DATE>20160211</PRIOR_BUSINESS_DAY_DATE>
        <LAST_DOWNLOADED_DATETIME>20160221143522 [-5:EST]
        </LAST_DOWNLOADED_DATETIME>

      </DATAEXPORT2FILE>
      <DATAEXPORT2FILE>
        <ID>445686</ID>
        <FILE_STATUS>COMPLETED_WITH_ERRORS</FILE_STATUS>
        <FILE_EXPIRATION_DATETIME>20160224143522 [-5:EST]
        </FILE_EXPIRATION_DATETIME>
        <FILE_NAME>export_20160210_20160211133157.zip</FILE_NAME>
        <CREATION_DATETIME>20160201143522 [-5:EST]</CREATION_DATETIME>
        <PRIOR_BUSINESS_DAY_DATE>20160210</PRIOR_BUSINESS_DAY_DATE>
      </DATAEXPORT2FILE>
    </DATAEXPORT2FILELIST>
  </DATAEXPORT2FILELISTRS>
</DATACONNECTRS>
```

Configure Export

Purpose

This optional operation produces a zip file of CI Configuration Exports for objects including CI_CONFIGURATION, CI_ACCOUNT_TRANSLATION, and CI_SECURITY_TRANSLATION.

Request: <EXPORTCONFIGGETRQ_A>

The <EXPORTCONFIGGETRQ_A> request can contain the following options. When used, the options MUST be included in the given order.

Tag	Required	Data Type	Description
<INCCONFIGFILE>			Use to include config.csv in the zip file.
<INCACCTXLATFILE>			Use to include accounttranslation.csv in the zip file.
<INCSECXLATFILE>			Use to include securitytranslation.csv in the zip file.
<INCNEWACCOUNTFILE>			Use to include newaccounts.csv in the zip file.
<INCAUTOSECXLATFILE>			Use to include autosecuritytranslation.csv in the zip file.
<INCAUTOSECREFFILE>			Use to include autosecurityreference.csv in the zip file.

Response: < EXPORTCONFIGGETRS_A>

Tag	Required	Data Type	Description
<STATUS>	√		The <STATUS> aggregate as described in the DataConnect guides.
<RECEIPT>		RECEIPT64	Receipt provided in request. Only issued if <STATUS> is successful.
<RECEIPT_EXP>		TIMESTAMP	Expiration time of <RECEIPT>, including time zone. Present only if <RECEIPT> is present.
<CLAIM_WAIT>		NUMBER	Number of milliseconds to wait before attempting to retrieve the results of the Export Data 2 operation via the Claim Data request. Present only if <RECEIPT> is present.

Zip File Response

The RECEIPT of the completed EXPORTCONFIGGETRS_A operation is used in the <FILECLAIMRQ> request to retrieve the <EXPORTCONFIGGET_A> generated .csv files in a zip file. The Zip file at a minimum contains a README.txt.

File Name	Description
config.csv	A brief log file.
accounttranslation.csv	Configuration information for the logged in user.
securitytranslation.csv	Custom account translations for the logged in user.
newaccounts.csv	Custom security translations for the accounts to be exported for the logged in user.
autosecuritytranslation.csv	New accounts for the logged in user.
autosecurityreference.csv	Auto security translations for the accounts to be exported for the logged in user.
config.csv	Position and Transaction security references that generate the auto security translations.

config.csv

Column	Required	Data Type	Description
ID	√	ID	Database ID of the Configuration
OWNER_PERSON_ID		ID	Currently not part of the config.csv
NAME	√	CHAR64	Name of the configuration
CREATION_TIME	√	TIMESTAMP	Config record creation timestamp in format yyyyMMdHHmmss [<'offset'>:zzz]
LAST_MODIFIED_TIME	√	TIMESTAMP	Config record updated timestamp in format yyyyMMdHHmmss [<'offset'>:zzz]
OUTPUT_FORMAT	√	NUMBER	0 - PORTFOLIOCENTER 1 - UNIVERSAL 2 - AXYS 3 - ALBRIDGE 4 - APX 5 - TLM 6 - TOD
EXCLUDE_NONVALIDATED	√	NUMBER	This is a global setting that controls whether the export will include non-validated accounts. Valid values for this field are: 0 = include accounts whose validation_status is not 'Valid'.

			1 = exclude accounts whose validation_status is not 'Valid'. The default setting is "1".
ACCOUNT_IDENTIFIER_MODE	√	NUMBER	0 - USE_ACCOUNT_NUMBER 1 - USE_UNIQUE_NUMERIC_ID
UNTRANSLATED_SECURITY_MODE	√	NUMBER	0 - USE_SECURITY_NAME 1 - USE_UNIQUE_NUMERIC_ID
EXCLUDE_POS_FAILACCT	√	NUMBER	When an account is failing, controls whether positions are included in the Position (recon) file – 0 = include positions for failed accounts, 1 = exclude positions for failed accounts. Default value is "1".
EXCLUDE_POS_STALEACCT	√	NUMBER	When an account is stale, controls whether positions are included in the Position (recon) file – 0 = include positions for stale accounts, 1 = exclude positions for stale accounts. Default value is "1".
CALCULATE_MISSING_PRICES	√	NUMBER	When price is not available, attempt to calculate price from position's units and market value. Valid values: 0 – do not calculate missing prices, 1 – calculate missing prices. Default setting is "1".
USE_STALE_PRICES	√	NUMBER	When price is not available from custodian and price cannot be calculated, this global option indicates whether a stale price should be used: 0 – do not use stale prices, 1 – use stale prices. Default setting is "0".
OVERWRITEPOSZEROUNITS	√	NUMBER	0 - NONE 1 - USE_MARKETVALUE 2 - USE_ONE
COMBINE_DIV_REINVEST	√	NUMBER	Boolean indicating whether a Dividend transaction should be matched to a corresponding Buy or Reinvest and output as a single "Reinvestment" transaction. Valid values are: ▪ 0 – do not combine, ▪ 1 – combine. Default is "1".
COMBINE_BOND_ACCRUED	√	NUMBER	Boolean indicating whether separately reported BuyAccrued and Sell Accrued

			transactions should be combined with the corresponding Buy and Sell, respectively. Valid values are: 0 – do not combine, 1 – combine. Default is "1".
DEF_CASH_SYMBOL	√	CHAR512	Value to use for the 'From/To Account' column in Buy and Sell transactions for cash type securities. Default value for CI PC is "CASH".
CALC_PRICE_PRECISION	√	NUMBER	Number of digits of precision to output for calculated prices. Value must be greater than or equal to 2. Default value is 4.
POS_UNIT_PRECISION	√	NUMBER	Number of digits of precision to output for position units. Value must be greater than or equal to 2. Default value is 6.
VERSION_NUMBER	√	NUMBER	Version number for the Configuration
EXPORT_PRIOR_MAXTXCREDATE		TIMESTAMP	Export Prior Maximum Transaction Date in format yyyyMMddHHmmss [<'offset':zzz]
EXPORT_LATEST_MAXTXCREDATE		TIMESTAMP	Export latest Maximum Transaction Date in format yyyyMMddHHmmss [<'offset':zzz]
EXPORT_LATEST_PBD_DATE		DATE	Export Latest PBD Date in format yyyyMMdd
EXPORT_LATEST_TIMESTAMP		TIMESTAMP	Export Latest Timestamp in format yyyyMMddHHmmss [<'offset':zzz]

accounttranslation.csv

Column	Required	Data Type	Description
ID	√	ID	Database ID of the Account Translation
CI_CONFIGURATION_ID	√	ID	Database ID of the CI configuration used to generate the Account Translation file
ACCOUNT_ID	√	ID	Account ID
OUTPUT_ACCOUNT_IDENTIFIER		CHAR64	User-assigned account identifier to be output to CI output files. Default is null.
INCLUDE_OVERRIDE		NUMBER	Null = use global setting. 0 = don't include the account for export, 1 = include the account for export. No other settings supported. Default is null.
EXPORT_POS_IF_STALE		NUMBER	Null = use global setting, 1 = always export positions that are stale. No other setting supported.
MM_SYMBOL		CHAR512	Null = no MM symbol. Otherwise, the symbol to use for this account for 'money market balance' holdings. Default is null.
MM_SYMBOL_TYPE		CHAR6	0 - CUSIP 1 - ISIN 2 - SEDOL 3 - Ticker 4 - UNKNOWN
CREATION_TIME	√	TIMESTAMP	Account Translation record creation timestamp in format yyyyMMddHHmmss [<'offset':zzz]
LAST_MODIFIED_TIME	√	TIMESTAMP	Account Translation record updated timestamp in format yyyyMMddHHmmss [<'offset':zzz]

Row sort order is ascending by ACCOUNT_ID

securitytranslation.csv

Column	Required	Data Type	Description
ID	√	ID	Database ID of the Security Translation
CI_CONFIGURATION_ID	√	ID	Database ID of the CI configuration used to generate the Security Translation file
OUTPUT_SEC_TYPE	√	CHAR50	Right-hand side of translation ,tool-specific security type
OUTPUT_SYMBOL_TYPE		CHAR6	Right-hand side of translation, CSV only (null for other tools)
OUTPUT_SYMBOL	√	CHAR512	Right side of translation, symbol to output (called axysTicker in CI schema).
INPUT_TICKER		CHAR512	The Ticker used to match the the BAA source object (left-hand side of translation).
INPUT_CUSIP		CHAR512	The CUSIP used to match the BAA source object (left-hand side of translation). Note: The customer can create a translation with an INPUT_CUSIP but if CUSIP is not licensed and enabled for the firm then the security translation will not match anything.
INPUT_NAME		CHAR512	The NAME used to match the the BAA source object (left-hand side of translation).
INPUT_FI_ID		ID	Name-based translations (those that use baa_name as the key) may also specify a financial institution to further constrain the left-hand side of translation. No Foreign Key constraint will be used. The related FI may be deleted in the system.
INPUT_ACCOUNT_ID		ID	Name-based translations (those that use baa_name as the key) may also specify one account to further constrain the left-hand side of translation. No Foreign Key constraint will be used. The related account may be deleted in the system.
SECURITY_REFERENCE_NAME		CHAR512	A name for the security referenced by the "input_" fields (ticker, CUSIP) left-hand side of the translation. This name is like a comment – it is used only to help the user understand which security this is.
CREATION_TIME	√	TIMESTAMP	Security Translation record creation timestamp in format yyyyMMddHHmmss [<'offset'>:zzz]
LAST_MODIFIED_TIME	√	TIMESTAMP	Security Translation record updated timestamp in format yyyyMMddHHmmss [<'offset'>:zzz]

Row sort order is ascending by OUTPUT_SYMBOL.

newaccounts.csv

Column	Required	Data Type	Description
ID	√	ID	Database ID of the new account
FINANCIAL_INSTITUTION_NAME	√	CHAR128	Name of the financial institution related to this account
ACCOUNT_NAME	√	CHAR64	Name of account holding the position or transaction
ACCOUNT_NUMBER		CHAR256	Number of account holding the position or transaction
IS_EXCEPTION	√	NUMBER	Position market value or Transaction total amount
TX_EARLIEST_TRADE_DATE		DATE	Transaction execution date (only when reference is a transaction) in the format YYYYMMDD

Sort order is ID ascending

autosecuritytranslation.csv

Tag	Required	Data Type	Description
ID	√	ID	Database ID of Auto Security Translation
CI_CONFIGURATION_ID	√	ID	Database ID of the CI configuration used to generate the auto sec translation file
INPUT_NAME	*	CHAR512	Potentially used as the input name value for a security translation to translate this undefined security.
INPUT_TICKER	*	CHAR512	Potentially used as input ticker value for a security translation to translate this undefined security.
INPUT_CUSIP	*	CHAR512	Potentially used as the input CUSIP value for a security translation to translate this undefined security. Note: If CUSIP is not licensed and enabled for the firm then INPUT_CUSIP will not be created.
INPUT_FI_ID		ID	Database ID of institution from which this undefined security originated
INPUT_FI_NAME		CHAR128	Name of institution from which this undefined security originated
OUTPUT_SEC_TYPE	√	CHAR20	The security type that will be output for this undefined security. PC output values: EQ, FI, MF, OP, MU, OT
OUTPUT_SYMBOL	√	CHAR512	The tool-specific symbol that will be output for this undefined security.

* Only one of these fields can be valued: 1) Ticker, 2) CUSIP, or 3) Name. Symbol-based translations can specify a ticker or a CUSIP (but not both). Name-based translations can specify only a name. A translation that specifies name must also specify input_fi_id. Row sort order is ascending by OUTPUT_SYMBOL.

autosecurityreference.csv

Column	Required	Data Type	Description
AUTO_SECURITY_XLAT_ID	√	ID	Database ID of Auto Security Translation
CI_CONFIGURATION_ID	√	ID	Database ID of the CI configuration used to generate the file
TYPE	√	CHAR32	Reference is a 'POSITION' or 'TRANSACTION'
ID	√	ID	Database ID of Position or Transaction
NAME	*	CHAR512	Position or Transaction name
TICKER	*	CHAR32	Position FI_SUPPLIED_TICKER or Transaction TICKER
CUSIP	*	CHAR20	Position FI_SUPPLIED_CUSIP or Transaction CUSIP. Will only be present if the firm is licensed for CUSIP data and the firm is enabled to deliver it.
FI_ID		ID	Institution database ID
FI_NAME		CHAR128	Institution name
ACCOUNT_ID	√	ID	Database ID of account holding the position or transaction
ACCOUNT_NAME	√	CHAR64	Name of account holding the position or transaction
ACCOUNT_NUMBER		CHAR256	Number of account holding the position or transaction
MARKET_VALUE		NUMBER	Position market value or Transaction total amount
UNITS		NUMBER	Position or Transaction units
PRICE		NUMBER	Position price (only when reference is a position)
PRICE_AS_OF		DATE	Position price as of date (only when reference is a position) in the format YYYYMMDD
EXECUTION_DATE		DATE	Transaction execution date (only when reference is a transaction) in the format YYYYMMDD

`*` At least one of these fields must be valued: 1) TICKER, 2) CUSIP, or 3) NAME.
Row sort order is ascending by ACCOUNT_ID, NAME, TICKER, and CUSIP.

Errors

This operation may return the following errors in the **<STATUS>** portion of the response:

Error Code	Severity	Error Message
0	Success	Success
65547	Error	An Internal error occurred
67835	Error	CI Export files not generated
67843	Error	At least one type of file must be included
67850	Warning	Missing CI_Configuration object
67810	Warning	Account Translation file not completed
67818	Warning	Security Translation file not completed
67802	Warning	CI Configuration file not completed
67826	Warning	Multiple files not completed

Sample XML

The following is a sample request,

```
<EXPORTCONFIGGETRQ_A>
  <INCCONFIGFILE/>
  <INCACCTXLATFILE/>
  <INCSECTXLATFILE/>
  <INCAUTOSECXLATFILE/>
  <INCAUTOSECREFFILE/>
</EXPORTCONFIGGETRQ_A>
```

The following is a sample response.

```
<DATACONNECTRQ>
  <VERSION>VERSION4.0</VERSION>
  <STATUS>
    <ERRCODE>0</ERRCODE>
    <ERRMSG>Success</ERRMSG>
  </STATUS>
  <EXPORTCONFIGGETRS_A>
    <STATUS>
      <ERRCODE>0</ERRCODE>
      <ERRMSG>Operation started</ERRMSG>
    </STATUS>
    <RECEIPT>4156134539194658402</RECEIPT>
    <RECEIPT_EXP>20160805170238 [-5:EDT]</RECEIPT_EXP>
    <CLAIM_WAIT>1000</CLAIM_WAIT>
  </EXPORTCONFIGGETRS_A>
</DATACONNECTRQ>
```