M RNINGSTAR Wealth

DataConnect V4 Export Guide for CI SaaS PortfolioCenter and Universal

©2025 Morningstar. All Rights Reserved.

DataConnect Product Version:	V4.0
Document Version:	7
Document Issue Date:	February 20, 2025

Technical Support:	(866) 856-4951
Web:	byallaccounts.morningstar.com

Table of Contents

About this Guide	
DATACONNECT CI SAAS EXPORT	1
Overview	1
Obtaining an Export	1
Export Operation Summary	2
Export Data 2	
Purpose	
Restrictions	3
Request: <dataexport2rq_a></dataexport2rq_a>	3
<export2_data_query> Aggregate</export2_data_query>	4
<account_tx_query> Aggregate</account_tx_query>	4
Response: <dataexport2rs_a></dataexport2rs_a>	5
Errors	6
Sample XML	6
Claim Data	9
Purpose	9
Restrictions	9
Request: <dataclaimrq></dataclaimrq>	9
Response: <dataclaimrs></dataclaimrs>	9
Errors	
Sample XML	10
Claim File	11
Purpose	11
Restrictions	11
Behavior	

Table of Contents

Request: <fileclaimrq> for Export</fileclaimrq>	
Response	11
Errors	11
Sample XML	
Export Data 2 List File	
Purpose	
Restrictions	
Request: <dataexport2filelistrq></dataexport2filelistrq>	
Response: <dataexport2filelistrs></dataexport2filelistrs>	
Errors	14
Sample XML	
Configure Export	
Purpose	
Request: <exportconfiggetrq_a></exportconfiggetrq_a>	
Response: < EXPORTCONFIGGETRS_A>	
Zip File Response	
config.csv	
accounttranslation.csv	24
securitytranslation.csv	25
newaccounts.csv	
autosecuritytranslation.csv	
autosecurityreference.csv	
columnconfig.csv	
Errors	
Sample XML	

ABOUT THIS GUIDE

This guide describes the ByAllAccounts DataConnect operations that are used to obtain a Custodial Integrator Software as a Service Export (CI SaaS Export) files.

CI SaaS Export files are the same files formerly produced by Custodial Integrator Desktop. They can be produced using DataConnect, using operations described in this guide. They also can be output through AccountView for firms licensed for CI SaaS Export.

Customers can be configured for either PortfolioCenter or Universal export formats. This guide describes both. For simplicity, much of this guide will simply refer CI SaaS Export as 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:

- <u>AccountView Export Files for PortfolioCenter</u>
- <u>AccountView Export Files for Universal</u>

DATACONNECT CI SAAS EXPORT

Overview

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

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 Export to ensure that each time you run 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 run the export.

You may wish to produce the Export files via DataConnect so that you can automate the process, for example, if you have a large-scale operation.

Obtaining an Export

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

1. DataExport2RQ_A – this asynchronous operation prepares the 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 Export files.

There are also helper operations:

- DataExport2FileListRQ, which you can call at any time to obtain a list of the completed 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.

Export Operation Summary

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

	PortfolioCenter Export Operations			
Export Data 2	Used to create an Export file set based on a single	Request: <dataexport2rq_a></dataexport2rq_a>		
	export configuration that contains state information.	Response: <dataexport2rs_a></dataexport2rs_a>		
Claim Data	Retrieves data resulting from a previously requested	Request: <dataclaimrq></dataclaimrq>		
	asynchronous operation.	Response: <dataclaimrs></dataclaimrs>		
Claim File	Used in conjunction with the Export Data 2	Request: <fileclaimrq> for Export</fileclaimrq>		
	(Asynchronous) operation to download the ZIP file.	Response: ZIP file containing CSV		
		exports or <fileclaimrs></fileclaimrs>		
Export Data 2 List	Allows user to obtain a list of all previously created	Request:		
File	Exports that are available for download. This list	<u><dataexport2filelistrq></dataexport2filelistrq></u>		
	includes the ID and status information for each of <u>Response</u> :			
	the available Exports.	<u><dataexport2filelistrs></dataexport2filelistrs></u>		
Configure Export	Retrieves a zip file containing the configuration	Request: <exportconfiggetrq_a></exportconfiggetrq_a>		
	exports requested.	Response: <		
		EXPORTCONFIGGETRS_A>		

Export Data 2

Purpose

Used in DataConnect to produce CI SaaS Exports. This is an asynchronous operation. The details about how asynchronous operations behave are described in the DataConnect user guides.

Restrictions

The following restriction applies 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 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></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></numberdayshxprice>		Integer	Sets a specified number of days of historical price files. Valid range is 1 through 6.
			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.
			When NUMBERDAYSHXPRICE is used, the value always overrides the default number of price files that would have been created.

<export2_data_query></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></account_tx_query>	V	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:

Тад	Required	Field	Description
<id></id>	V	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.</id>
<tx_start_date></tx_start_date>	V	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.</id>

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></status>	\checkmark		The <status></status> aggregate as described in the
			DataConnect guides.
<receipt></receipt>		RECEIPT64	Receipt for the client to inquire at a later time about
			the result of this operation. Only issued if <status></status>
			is successful.
<receipt_exp></receipt_exp>		TIMESTAMP	Expiration time of <receipt></receipt> . Present only if
			<receipt> is present.</receipt>
<claim_wait></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</receipt>
			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></status>	√		The <status></status> aggregate as described in the DataConnect guides.
<id></id>		DataExport2File.ID	Unique ID assigned to this export file. Only provided if the export operation was successful.

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 9999999999999999999999999999999999
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
65963	Error	User type not supported for this operation
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

Errors

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>

</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:

For PortfolioCenter, 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.

For Universal, the response is a ZIP file that includes mandatory files README.txt and BAAtrace_yyyymmdd.log, and optionally files BAAACT_yyyymmdd.csv, BAATRX_yyyymmdd.csv, BAAREC_yyyymmdd.csv, BAASEC_yyyymmdd.csv, BAAPRI_yyyymmdd.csv.

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></receipt>	V	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></status>			See <status> aggregate description.</status>
<receipt></receipt>	\checkmark	RECEIPT64	Receipt provided in request.
<claim_wait></claim_wait>			Provided only if <receipt></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; this section describes using Claim File for CI SaaS Export.

Restrictions

The following restrictions apply to this operation:

• When Claim File is used to claim an 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 Export

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

Tag	Required	Field	Description
<id></id>	*	ID	The ID is part of the DATACLAIM operation executed after DataExport2RQ_A.

Response

Response is a ZIP file containing CSV exports or <FILECLAIMRS>. See <u>DataConnect V4 Lite User Guide</u> or <u>DataConnect V4 Ultra User Guide</u>.

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> </FILECLAIMRS> </DATACONNECTRS>

The following is a sample response in case of success:

For PortfolioCenter, the response is a ZIP file 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.

For Universal, the response is a ZIP file that includes mandatory files README.txt and BAAtrace_yyyymmdd.log, and optionally files BAAACT_yyyymmdd.csv, BAATRX_yyyymmdd.csv, BAAREC_yyyymmdd.csv, BAASEC_yyyymmdd.csv, BAAPRI_yyyymmdd.csv.

Export Data 2 List File

Purpose

Allows user to obtain a list of all 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></status>	V		This is the status of the CATAEXPORT2FILELISTRQ> operation itself. The STATUS> aggregate as described in the DataConnect guides.
<dataexport2filelist></dataexport2filelist>	V		A list of <dataexport2file> entries. This field is required, but it may be empty if no exports are available.</dataexport2file>

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

Tag	Required	Data Type	Description
<dataexport2file></dataexport2file>			One for each CI Export entry.

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

Tag	Required	Data Type	Description
<id></id>	V	ID	The unique ID for this DataExport2File.
<file_status></file_status>	V	CHAR32	The file status, either "SUCCESS" or 'COMPLETED_WITH_ERRORS"
<file_expiration_datetime></file_expiration_datetime>	V	TIMESTAMP	The time at which the export file will expire.
<file_name></file_name>	٧	CHAR128	The generated file name for this DataExport2File entry.
<creation_datetime></creation_datetime>		TIMESTAMP	The time at which the file was created
<prior_business_day_date></prior_business_day_date>	V	DATE	The prior business day date – the positions in the export are as of the close of this date.
<last_downloaded_datetime></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
65963	Error	User type not supported for this operation

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></incconfigfile>			Use to include <u>config.csv</u> in the zip file.
<incacctxlatfile></incacctxlatfile>			Use to include <u>accounttranslation.csv</u> in the zip file.
<incsecxlatfile></incsecxlatfile>			Use to include <u>securitytranslation.csv</u> in the zip file.
<incnewaccountfile></incnewaccountfile>			Use to include <u>newaccounts.csv</u> in the zip file.
<incautosecxlatfile></incautosecxlatfile>			Use to include <u>autosecuritytranslation.csv</u> in the zip file.
<incautosecreffile></incautosecreffile>			Use to include <u>autosecurityreference.csv</u> in the zip file.
<inccolumnconfig></inccolumnconfig>			Use to include <u>columnconfig</u> .csv in the zip file.

Response: < EXPORTCONFIGGETRS_A>

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

Zip File Response

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

File Name	Description	Details
config.csv	Configuration information for the logged in user.	Page <u>17</u>
accounttranslation.csv	Custom account translations for the logged in user.	Page <u>24</u>
securitytranslation.csv	Custom security translations for the accounts to be exported for the logged in user.	Page <u>25</u>
newaccounts.csv	New accounts for the logged in user.	Page <u>26</u>
autosecuritytranslation.csv	Auto security translations for the accounts to be exported for the logged in user.	Page <u>27</u>
autosecurityreference.csv	Position and Transaction security references that generate the auto security translations.	Page <u>27</u>
columnconfig.csv	Column configuration settings.	Page <u>29</u>
Readme.txt	A brief log file.	

config.csv

Column	Require d	Data Type	Description
ID	\checkmark	ID	Database ID of the Configuration
OWNER_PERSON_ID		ID	Currently not part of the config.csv
NAME	\checkmark	CHAR64	Name of the configuration
CREATION_TIME	V	TIMESTAMP	Config record creation timestamp in format yyyyMMddHHmmss [<'offset'>:zzz]
LAST_MODIFIED_TIME	V	TIMESTAMP	Config record updated timestamp in format yyyyMMddHHmmss [<'offset'>:zzz]
OUTPUT_FORMAT	V	NUMBER	0 - PORTFOLIOCENTER 1 - UNIVERSAL 2 - AXYS 3 - ALBRIDGE 4 - APX 5 - TLM 6 - TOD
EXCLUDE_NONVALIDATED	V	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 for which
			validation_status is not 'Valid'.
			 1 = exclude accounts for which
			validation_status is not 'Valid.
	1		The default setting is "1".
ACCOUNT_IDENTIFIER_MODE	V	NUMBER	0 - USE_ACCOUNT_NUMBER
			1 - USE_UNIQUE_NUMERIC_ID
UNTRANSLATED_SECURITY_MODE	\checkmark	NUMBER	0 - USE_SECURITY_NAME
			1 - USE_UNIQUE_NUMERIC_ID
EXCLUDE_POS_FAILACCT	\checkmark	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	1	NUMBER	When price is not available, attempt to
CALCOLATE_MISSING_FRICES	V	NUMBEN	
			calculate price from position's units
			and market value. Valid values: 0 - do
			not calculate missing prices, 1 -
			calculate missing prices. Default
	1		setting is "1".
USE_STALE_PRICES	1	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	\checkmark	NUMBER	0 - NONE
			1 - USE_MARKETVALUE
			2 - USE_ONE

COMBINE_DIV_REINVEST	V	NUMBER	Boolean indicating whether a Dividend
CONDINE_DIV_REINVEST	V	NUIVIDEN	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
	v	NOWDEN	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	1	CHAR512	Value to use for the 'From/To Account'
		010 (10) 12	column in Buy and Sell transactions
			for cash type securities. Default value
			is "CASH".
CALC_PRICE_PRECISION	1	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	\checkmark	NUMBER	Version number for the Configuration
EXPORT_PRIOR_MAXTXCREDATE		TIMESTAMP	The maximum transaction creation
			date exported in the export prior to the
			most recent export. Timestamp format
			syyyyMMddHHmmss [<'offset'>:zzz]
EXPORT_LATEST_MAXTXCREDATE		TIMESTAMP	The maximum transaction creation
			date
			exported in the most recent export.
			Timestamp format is:
		DATE	syyyyMMddHHmmss [<'offset'>:zzz]
EXPORT_LATEST_PBD_DATE		DATE	The prior business day date relative to
			when the most recent export was
			performed. The date format is:
			yyyyMMdd

EXPORT_LATEST_TIMESTAMP	√	TIMESTAMP	The timestamp of the most recently performed export for this configuration. The timestamp format is: yyyyMMddHHmmss [<'offset'>:zzz] Enclose fields in guotation marks.
	V	NUNDLA	 0 = do not enclose fields in quotes 1 = enclose fields in quotes Default value is 0.
FIELD_DELIMITER		STRING	Set the character used to separate data fields in the output.
SYMBOL_TYPE_ORDER		STRING	Set the preferred order of the symbol types, using types CUSIP, SEDOL, ISIN, Ticker. If multiple types of security symbols are present for a security (e.g. a CUSIP and a Ticker), this order setting will determine which symbol to use for security identification. • 1 = CUSIP, SEDOL, ISIN, Ticker • 2 = CUSIP, SEDOL, ISIN, Ticker • 3 = CUSIP, SEDOL, Ticker, ISIN • 3 = CUSIP, ISIN, SEDOL, Ticker • 4 = CUSIP, ISIN, SEDOL, Ticker • 4 = CUSIP, Ticker, SEDOL • 5 = CUSIP, Ticker, SEDOL, ISIN • 6 = CUSIP, Ticker, ISIN, SEDOL • 7 = SEDOL, CUSIP, Ticker, ISIN • 8 = SEDOL, CUSIP, Ticker, ISIN • 8 = SEDOL, CUSIP, Ticker, CUSIP • 10 = SEDOL, ISIN, Ticker • 11 = SEDOL, ISIN, CUSIP, Ticker • 11 = SEDOL, Ticker, CUSIP, ISIN • 13 = ISIN, CUSIP, SEDOL, Ticker • 14 = ISIN, CUSIP, SEDOL, Ticker • 15 = ISIN, SEDOL, CUSIP, Ticker • 16 = ISIN, SEDOL, CUSIP, Ticker • 17 = ISIN, SEDOL, CUSIP, Ticker • 18 = ISIN, Ticker, CUSIP, SEDOL • 19 = Ticker, CUSIP, SEDOL • 19 = Ticker, CUSIP, SEDOL • 20 = Ticker, CUSIP, ISIN, SEDOL • 20 = Ticker, SEDOL, ISIN, CUSIP • 22 = Ticker, SEDOL, CUSIP • 22 = Ticker, SEDOL, CUSIP, ISIN • 23 = Ticker, ISIN, SEDOL, CUSIP • 24 = Ticker, ISIN, CUSIP, SEDOL

			Default value is 1.
SYMBOL_PREFIX		STRING	Set the prefix string to use when there is no symbol provided by the Financial Institution and ByAllAccounts is not able to identify it as a security in the ByAllAccounts security master. If no symbol is provided 999999 will be used.
EXCLUDE_UNSETTLED_TX	V	NUMBER	 Exclude unsettled transactions, which have settlement date is later than the prior business day. 0 = include unsettled transactions 1 = exclude unsettled transactions. Default value is "1".
CREATE_INCOME_POS		NUMBER	Create separate income positions. For any position that has a non-zero value for INCOME_UNITS as well as a value for either UNITS or PRINCIPAL_UNITS, this setting creates a new position in the position file to represent the Income portion of the position. The new position will have units, cost basis, and market value all set to the value from the INCOME_UNITS field. The PRINCIPAL_OR_INCOME field will be set to 'I' and all of its PRINCIPAL fields will be set to the default (blank or zero). All remaining fields in the income position. The original position will have its INCOME_UNITS field set to the default (blank or zero). • 0 = do not create separate income positions • 1 = Create separate income positions
COMBINE_DUP_POS	√	NUMBER	 Default value is 0. Combine duplicate positions. When there are multiple positions of the same security within an account and those positions have the same principal/income designation, those positions will be combined into a single position for output. The

			 combined position UNITS, COST BASIS, and MARKET_VALUE fields will contain the sum of the corresponding fields from the original positions. 0 = do not combine duplicate positions. 1 = Combine duplicate positions. Default value is 0.
EXCLUDE_NOUNIT_POS	√	NUMBER	 Remove positions that have no units. After other position manipulations are performed (backing out unsettled transactions, creating separate income positions, combining positions), any position that has zero in the units field will be excluded from the output as will any associated position lots. 0 = do not remove positions that have no units. 1 = remove positions that have no units. Default value is 1 for PortfolioCenter and 0 for Universal.
TX_DATE_TYPE	V	NUMBER	Set the date type to use for transactions. Defaults to Trade.
ACCOUNT_IDENTIFIER_MAXLEN	V	NUMBER	 Set the maximum length of the account identifier. Universal: default is 128, but can be set between 19-128, inclusive. PortfolioCenter: default is 30, but can be set 19-30, inclusive.
COMMENT_TXTYPE	√	STRING	Set the transaction type to use for transactions that are 'commented out'. Translations can cause original transactions to be output as a 'comment' (no-op) effectively documenting the transaction to the target system but directing it to not "post" that transaction to the target system. In those cases, the transaction type is OTHER. This field can be set to any text that complies with the length of the TX_TYPE column.
ENABLE_LOTS		NUMBER	Enable tax lot functionality.

			 0 = do not enable tax lots 1 = enable tax lots Default value is 0.
NUMBER_FUTURE_TRADEDATE_DAYS	V	NUMBER	Set the number of days in the future allowed on trade dates. Default is 7.
EXCLUDE_OOD_AND_EXPTODAY_ACCTS	V	NUMBER	Exclude accounts that are out of date and accounts that have been exported today. The service begins data collection at 1 AM and attempts to update all accounts in the service by approximately 8 AM. Depending on what time you begin your download process, data may not be available for all your accounts, resulting in a need to perform the data translation process multiple times throughout the day. Setting this option to yes (1) will automatically select any accounts that are ready for download. Accounts that are considered ready for download are those that (1) have updated in the service in today's data gathering cycle, and (2) have not yet been processed through Cl SaaS today. • 0 = no • 1 = yes Default value is 0.
INCLUDE_NOTYETEXPTODAY_ACCTS	V	NUMBER	Include all accounts not yet exported today, including stale and failed accounts. Not applicable to CI SaaS.
INCLUDE_ACCTS_EXP	V	NUMBER	 Include accounts for export. Controls the creation of the accounts file. 0 = do not include accounts for export. 1 = include accounts for export. Default value is 1.
INCLUDE_TRANS_EXP	V	NUMBER	 Include transactions for export. Controls the creation of the transaction file. 0 = do not include transactions for export

			 1 = include transactions for export Default value is 1.
INCLUDE_POS_EXP	1	NUMBER	 Include positions for export. Controls the creation of the positions file. 0 = do not include transactions for export 1 = include transactions for export Default value is 1.
INCLUDE_SEC_EXP	1	NUMBER	 Include securities for export. Controls the creation of a securities file. 0 = do not include securities for export 1 = include securities for export Default value is 1.
INCLUDE_PRICE_EXP	V	NUMBER	 Include security prices for export. Controls the creation of a price file. 0 = do not include security prices for export 1 = include security prices for export Default value is 1.
DEF_NUM_PRICE_DAYS		NUMBER	Set the default number of price days. When this parameter is set, it specifies the number of days of historical price data to import and export to the Price and Security files. The valid range of values is 1-6 where1 indicates only the previous business day. This value (if set) will be used, or the number of days since last export, whichever is greater. The default is the number of days since the last export, with a maximum of 6 days.

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	\checkmark	ID	Account ID

OUTPUT_ACCOUNT_IDENTIFIER		CHAR64	User-assigned account identifier to be
			output to Cl 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	V	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	1	ID	Database ID of the Security Translation
CI_CONFIGURATION_ID	V	ID	Database ID of the CI configuration used to generate the Security Translation file
OUTPUT_SEC_TYPE	V	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 Cl schema).

INPUT_TICKER		CHAR512	The Ticker used to match the BAA source object
		011/11/01/2	(left-hand side of translation).
INPUT_CUSIP		CHAR512	The CUSIP used to match the
		UTANJIZ	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
			-
		CHAR512	will not match anything.
INPUT_NAME		CHAROIZ	The NAME used to match the BAA source object
		ID	(left-hand side of translation).
INPUT_FI_ID		עו	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
		15	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	\checkmark	TIMESTAMP	Security Translation record creation timestamp
			in format yyyyMMddHHmmss [<'offset'>:zzz]
LAST_MODIFIED_TIME	1	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	V	CHAR64	Name of account holding the position or transaction
ACCOUNT_NUMBER		CHAR256	Number of account holding the position or transaction

IS_EXCEPTION	٧	BOOLEAN	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	\checkmark	ID	Database ID of Auto Security Translation
CI_CONFIGURATION_ID	V	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_SECURITY_TYPE	V	CHAR20	The security type that will be output for this undefined security. Export output values: EQ, FI, MF, OP, MU, OT
OUTPUT_SYMBOL	V	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	\checkmark	ID	Database ID of Auto Security Translation
CI_CONFIGURATION_ID	V	ID	Database ID of the CI configuration used to generate the file
ТҮРЕ	\checkmark	CHAR32	Reference is a 'POSITION' or 'TRANSACTION'

ID	\checkmark	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	\checkmark	ID	Database ID of account holding the position or transaction
ACCOUNT_NAME	1	CHAR64	Name of account holding the position or transaction
ACCOUNT_NUMBER		CHAR256	Number of the 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.

columnconfig.csv

Column	Required	Data Type	Description
COLUMN_ID	1	CHAR	Composite field of output file and COLUMN_NAME Possible values for the output file are: ACCOUNTS TRANSACTIONS POSITIONS SECURITIES PRICES Example: ACCOUNTS_ACCOUNT_IDENTIFIER
COLUMN_NAME	V	CHAR50	Output field name Example: ACCOUNT_IDENTIFIER
DATA_TYPE	1	CHAR10	Possible DATA_TYPE values: CHARN NUMBER BOOLEAN DATE TIMESTAMP
INCLUDE_OPTS		CHAR5	Specifies whether the COLUMN_NAME is included in the CI SaaS export file. Possible values: true or false
ORDER_DEFAULT	V	NUMBER	Default numeric position in the sequence, beginning at 1.
ORDER_VALUE		NUMBER	Actual numeric position in the sequence, beginning at 1.
POSSIBLE_DEFAULTS		CHAR1024	Enables customization of the DEFAULT_VALUE when a field is empty. Possible defaults are provided as a comma-separated list. The values used are: NUMBER fields: "", "0", "1" CHAR fields: • ISO_CODES (indicates country codes for currency fields), • "P", "I" (indicators for PRINCIPAL_OR_INCOME field) DATE fields: "", "PBD"
DEFAULT_VALUE		CHAR64	The preselected value chosen from the options in POSSIBLE_DEFAULTS.
POSSIBLE_OVERRIDE		CHAR512	Enumerates possible override values for this field.

		Used for TX_COMPOSITE_TYPE, which provides a value listing various fields that can be combined to define the field. Additionally, UNITS can be overridden with PRINCIPAL_UNITS.
OVERRIDE_OPT	CHAR512	Value selected from the options in POSSIBLE_OVERRIDE.
POSSIBLE_CUSTOM_OPTS	CHAR512	Comma separated list of custom options. In practice only custom option is ABSOLUTE_VALUE
CUSTOM_OPTS	CHAR512	Provides value for ABSOLUTE _VALUE: TRUE or FALSE

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			
65963	Error	User type not supported for this operation			
67802	Warning	CI Configuration file not completed			
67810	Warning	Account Translation file not completed			
67818	Warning	Security Translation file not completed			
67826	Warning	Multiple files not completed			
67843	Error	At least one type of file must be included			
67850	Warning	Missing CI_Configuration object			
67866	Warning	New accounts file not completed			
67874	Warning	Auto Security Translation file not completed			
67882	Warning	Auto Security Reference file not completed			
68058	Warning	Column definitions can only be exported for CI SaaS Universal			
69146	Warning	CI Column Definition file not completed			

Sample XML

The following is a sample request,

<EXPORTCONFIGGETRQ_A> <INCCONFIGFILE/> <INCACCTXLATFILE/> <INCSECXLATFILE/> <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>