

DataConnect V4  
Export Guide for CI SaaS  
PortfolioCenter and Universal

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## 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:

- [AccountView Export Files for PortfolioCenter](#)
- [AccountView Export Files for Universal](#)

## 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 CI 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 |   |   |
|-----------------------------------|---|---|
| <b>Export Data 2</b>              | Used to create an Export file set based on a single export configuration that contains state information.   | <a href="#">Request: &lt;DATAEXPORT2RQ_A&gt;</a><br><a href="#">Response: &lt;DATAEXPORT2RS_A&gt;</a>                                       |
| <b>Claim Data</b>                 | Retrieves data resulting from a previously requested asynchronous operation.  | <a href="#">Request: &lt;DATACLAIMRQ&gt;</a><br><a href="#">Response: &lt;DATACLAIMRS&gt;</a>   |
| <b>Claim File</b>                 | Used in conjunction with the Export Data 2 (Asynchronous) operation to download the ZIP file.   | <a href="#">Request: &lt;FILECLAIMRQ&gt; for Export</a><br>Response: ZIP file containing CSV exports or <a href="#">&lt;FILECLAIMRS&gt;</a> |
| <b>Export Data 2 List File</b>    | Allows user to obtain a list of all previously created Exports that are available for download. This list includes the ID and status information for each of the available Exports. | <a href="#">Request: &lt;DATAEXPORT2FILELISTRQ&gt;</a><br><a href="#">Response: &lt;DATAEXPORT2FILELISTRS&gt;</a>                           |
| <b>Configure Export</b>           | Retrieves a zip file containing the configuration exports requested.  | <a href="#">Request: &lt;EXPORTCONFIGGETRQ_A&gt;</a><br><a href="#">Response: &lt;EXPORTCONFIGGETRS_A&gt;</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 **<LOGINRO>** accompanying this operation must be an Advisor or a read-write (RW) Assistant.

### Request: **<DATAEXPORT2RO\_A>**

The **<DATAEXPORT2RO\_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   |
|-----------------------------------|----------|------------------|---|
| <b>&lt;TX_START_DATE&gt;</b>      |          | <b>DATE</b>      | 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.   |
| <b>&lt;NUMBERDAYSHXPRICE&gt;</b>  |          | <b>Integer</b>   | <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> |
| <b>&lt;EXPORT2_DATA_QUERY&gt;</b> |          | <b>Aggregate</b> | <p>Use this aggregate to provide a TX_START_DATE for individual accounts.</p> <p>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.</p>  |

**<EXPORT2\_DATA\_QUERY> Aggregate**

**<EXPORT2\_DATA\_QUERY>** must contain the following:

| Tag                             | Required | Field            | Description   |
|---------------------------------|----------|------------------|---|
| <b>&lt;ACCOUNT_TX_QUERY&gt;</b> | √        | <b>Aggregate</b> | 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  |
|------------------------------|----------|-------------------|--|
| <b>&lt;ID&gt;</b>            | √        | <b>Account.ID</b> | 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. |
| <b>&lt;TX_START_DATE&gt;</b> | √        | <b>DATE</b>       | 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 <b>Export Data 2</b> operation via the <b>Claim Data</b> 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  |
| 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   |

## 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:

For PortfolioCenter, the response is a ZIP file stream that includes mandatory files README.txt and BAAtrace\_YYYYMMDD.log; optionally includes files ADYMMDD.TRD, ADYMMDD.TRN, ADYMMDD.INI, ADYMMDD.POS, ADYMMDD.PRI, ADYMMDD.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 **<LOGINRO>** 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: <DATACLAIMRO>

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

| Tag                    | Required | Data Type        | Description  |
|------------------------|----------|------------------|--|
| <b>&lt;RECEIPT&gt;</b> | √        | <b>RECEIPT64</b> | Receipt previously issued to the DataConnect client for an asynchronous operation. |

### Response: <DATACLAIMRS>

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

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

| Tag                       | Required | Data Type        | Description   |
|---------------------------|----------|------------------|---|
| <b>&lt;STATUS&gt;</b>     | √        |                  | See <a href="#">&lt;STATUS&gt; aggregate</a> description.   |
| <b>&lt;RECEIPT&gt;</b>    | √        | <b>RECEIPT64</b> | Receipt provided in request.  |
| <b>&lt;CLAIM_WAIT&gt;</b> |          |                  | Provided only if <b>&lt;RECEIPT&gt;</b> 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 **<LOGINRO>** 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   |
|-------------------|----------|-----------|---|
| <b>&lt;ID&gt;</b> | *        | <b>ID</b> | The ID is part of the DATACLAIM operation executed after DataExport2RQ_A. |

### 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:

```
<DATACONNECTRO>
  <VERSION>VERSION4.0</VERSION>
  <LOGINRO>...</LOGINRO>
  <FILECLAIMRO>
    <ID>445685</ID>
  </FILECLAIMRO>
</DATACONNECTRO>
```

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:

For PortfolioCenter, the response is a ZIP file that includes mandatory files README.txt and BAAtrace\_YYYYMMDD.log; optionally includes files ADYMMDD.TRD, ADYMMDD.TRN, ADYMMDD.INI, ADYMMDD.POS, ADYMMDD.PRI, ADYMMDD.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 **<LOGINRO>** accompanying this operation must be an Advisor or an Assistant.

### Request: **<DATAEXPORT2FILELISTRO>**

The **<DATAEXPORT2FILELISTRO/>** does not contain any elements (it is an empty tag).

### Response: **<DATAEXPORT2FILELISTRS>**

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

| Tag                                | Required | Data Type | Description  |
|------------------------------------|----------|-----------|--|
| <b>&lt;STATUS&gt;</b>              | √        |           | This is the status of the <b>&lt;DATAEXPORT2FILELISTRO&gt;</b> operation itself. The <b>&lt;STATUS&gt;</b> aggregate as described in the DataConnect guides. |
| <b>&lt;DATAEXPORT2FILELIST&gt;</b> | √        |           | A list of <b>&lt;DATAEXPORT2FILE&gt;</b> 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                   |
|--------------------------------|----------|-----------|-------------------------------|
| <b>&lt;DATAEXPORT2FILE&gt;</b> |          |           | 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                 |
| 65963      | Error    | User type not supported for this operation |

## Sample XML

The following is a sample request:

```
<DATACONNECTRO>
  <VERSION>VERSION4.0</VERSION>
</LOGINRO>...</LOGINRO>
  <DATAEXPORT2FILELISTRO/>
</DATACONNECTRO>
```

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: <EXPORTCONFIGGETRO\_A>

The <EXPORTCONFIGGETRO\_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 <a href="#">config.csv</a> in the zip file.                  |
| <INCACCTXLATFILE>    |          |           | Use to include <a href="#">accounttranslation.csv</a> in the zip file.      |
| <INCSECXLATFILE>     |          |           | Use to include <a href="#">securitytranslation.csv</a> in the zip file.     |
| <INCNEWACCOUNTFILE>  |          |           | Use to include <a href="#">newaccounts.csv</a> in the zip file.             |
| <INCAUTOSECXLATFILE> |          |           | Use to include <a href="#">autosecuritytranslation.csv</a> in the zip file. |
| <INCAUTOSECREFFILE>  |          |           | Use to include <a href="#">autosecurityreference.csv</a> in the zip file.   |
| <INCCOLUMNCONFIG>    |          |           | Use to include <a href="#">columnconfig.csv</a> 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 <b>Configure Export</b> operation via the <b>Claim Data</b> 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 <EXPORTCONFIGGETRO\_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 <a href="#">17</a> |
| accounttranslation.csv      | Custom account translations for the logged in user.  | Page <a href="#">24</a> |
| securitytranslation.csv     | Custom security translations for the accounts to be exported for the logged in user.       | Page <a href="#">25</a> |
| newaccounts.csv             | New accounts for the logged in user.   | Page <a href="#">26</a> |
| autosecuritytranslation.csv | Auto security translations for the accounts to be exported for the logged in user.         | Page <a href="#">26</a> |
| autosecurityreference.csv   | Position and Transaction security references that generate the auto security translations. | Page <a href="#">27</a> |
| columnconfig.csv            | Column configuration settings.   | Page <a href="#">28</a> |
| Readme.txt                  | A brief log file.  |                         |

### config.csv

| Column                      | Required | Data Type | Description   |
|-----------------------------|----------|-----------|---|
| <b>ID</b>                   | √        | ID        | Database ID of the Configuration  |
| <b>OWNER_PERSON_ID</b>      |          | ID        | Currently not part of the config.csv  |
| <b>NAME</b>                 | √        | CHAR64    | Name of the configuration   |
| <b>CREATION_TIME</b>        | √        | TIMESTAMP | Config record creation timestamp in format yyyyMMddHHmmss [<'offset':>:zzz]   |
| <b>LAST_MODIFIED_TIME</b>   | √        | TIMESTAMP | Config record updated timestamp in format yyyyMMddHHmmss [<'offset':>:zzz]  |
| <b>OUTPUT_FORMAT</b>        | √        | NUMBER    | 0 - PORTFOLIOCENTER<br>1 - UNIVERSAL<br>2 - AXYS<br>3 - ALBRIDGE<br>4 - APX<br>5 - TLM<br>6 – TOD   |
| <b>EXCLUDE_NONVALIDATED</b> | √        | NUMBER    | This is a global setting that controls whether the export will include non-validated accounts. Valid values for this field are:<br><ul style="list-style-type: none"> <li>▪ 0 = include accounts for which validation_status is not 'Valid'.</li> </ul> |

|                                   |   |        |   |
|-----------------------------------|---|--------|---|
|                                   |   |        | <ul style="list-style-type: none"> <li>▪ 1 = exclude accounts for which validation_status is not 'Valid'. The default setting is "1".</li> </ul>  |
| <b>ACCOUNT_IDENTIFIER_MODE</b>    | √ | NUMBER | 0 - USE_ACCOUNT_NUMBER<br>1 - USE_UNIQUE_NUMERIC_ID   |
| <b>UNTRANSLATED_SECURITY_MODE</b> | √ | NUMBER | 0 - USE_SECURITY_NAME<br>1 - USE_UNIQUE_NUMERIC_ID  |
| <b>EXCLUDE_POS_FAILACCT</b>       | √ | NUMBER | When an account is failing, controls whether positions are included in the Position (recon) file. <ul style="list-style-type: none"> <li>▪ 0 = include positions for failed accounts</li> <li>▪ 1 = exclude positions for failed accounts</li> </ul> Default value is "1".            |
| <b>EXCLUDE_POS_STALEACCT</b>      | √ | NUMBER | When an account is stale, controls whether positions are included in the Position (recon) file. <ul style="list-style-type: none"> <li>▪ 0 = include positions for stale accounts</li> <li>▪ 1 = exclude positions for stale accounts</li> </ul> Default value is "1".                |
| <b>CALCULATE_MISSING_PRICES</b>   | √ | 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".  |
| <b>USE_STALE_PRICES</b>           | √ | NUMBER | When price is not available from custodian and price cannot be calculated, this global option indicates whether a stale price should be used: <ul style="list-style-type: none"> <li>▪ 0 – do not use stale prices</li> <li>▪ 1 – use stale prices</li> </ul> Default setting is "0". |
| <b>OVERWRITEPOSZEROUNITS</b>      | √ | NUMBER | 0 - NONE<br>1 - USE_MARKETVALUE<br>2 - USE_ONE  |
| <b>COMBINE_DIV_REINVEST</b>       | √ | 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: <ul style="list-style-type: none"> <li>▪ 0 – do not combine</li> </ul>                                    |

|                                   |   |           |   |
|-----------------------------------|---|-----------|---|
|                                   |   |           | <ul style="list-style-type: none"> <li>▪ 1 – combine</li> </ul> Default is "1".   |
| <b>COMBINE_BOND_ACCRUED</b>       | √ | NUMBER    | Boolean indicating whether separately reported BuyAccrued and Sell Accrued transactions should be combined with the corresponding Buy and Sell, respectively. Valid values are: <ul style="list-style-type: none"> <li>▪ 0 – do not combine</li> <li>▪ 1 – combine</li> </ul> Default is "1". |
| <b>DEF_CASH_SYMBOL</b>            | √ | CHAR512   | Value to use for the 'From/To Account' column in Buy and Sell transactions for cash type securities. Default value is "CASH".   |
| <b>CALC_PRICE_PRECISION</b>       | √ | NUMBER    | Number of digits of precision to output for calculated prices. Value must be greater than or equal to 2. Default value is 4.  |
| <b>POS_UNIT_PRECISION</b>         | √ | NUMBER    | Number of digits of precision to output for position units. Value must be greater than or equal to 2. Default value is 6.   |
| <b>VERSION_NUMBER</b>             | √ | NUMBER    | Version number for the Configuration  |
| <b>EXPORT_PRIOR_MAXTXCREDATE</b>  |   | TIMESTAMP | The maximum transaction creation date exported in the export prior to the most recent export. Timestamp format <code>yyyyMMddHHmmss [&lt;'offset':&gt;:zzz]</code>  |
| <b>EXPORT_LATEST_MAXTXCREDATE</b> |   | TIMESTAMP | The maximum transaction creation date exported in the most recent export. Timestamp format is: <code>yyyyMMddHHmmss [&lt;'offset':&gt;:zzz]</code>  |
| <b>EXPORT_LATEST_PBD_DATE</b>     |   | DATE      | The prior business day date relative to when the most recent export was performed. The date format is: <code>yyyyMMdd</code>  |
| <b>EXPORT_LATEST_TIMESTAMP</b>    |   | TIMESTAMP | The timestamp of the most recently performed export for this configuration. The timestamp format is: <code>yyyyMMddHHmmss [&lt;'offset':&gt;:zzz]</code>  |
| <b>ENCLOSE_FIELD_IN_QUOTES</b>    | √ | NUMBER    | Enclose fields in quotation marks. <ul style="list-style-type: none"> <li>▪ 0 = do not enclose fields in quotes</li> <li>▪ 1 = enclose fields in quotes</li> </ul> Default value is 0.  |

|                             |   |        |   |
|-----------------------------|---|--------|---|
| <b>FIELD_DELIMITER</b>      |   | STRING | Set the character used to separate data fields in the output.   |
| <b>SYMBOL_TYPE_ORDER</b>    |   | STRING | <p>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.</p> <ul style="list-style-type: none"> <li>▪ 1 = CUSIP, SEDOL, ISIN, Ticker</li> <li>▪ 2 = CUSIP, SEDOL, Ticker, ISIN</li> <li>▪ 3 = CUSIP, ISIN, SEDOL, Ticker</li> <li>▪ 4 = CUSIP, ISIN, Ticker, SEDOL</li> <li>▪ 5 = CUSIP, Ticker, SEDOL, ISIN</li> <li>▪ 6 = CUSIP, Ticker, ISIN, SEDOL</li> <li>▪ 7 = SEDOL, CUSIP, Ticker, ISIN</li> <li>▪ 8 = SEDOL, CUSIP, ISIN, Ticker</li> <li>▪ 9 = SEDOL, ISIN, Ticker, CUSIP</li> <li>▪ 10 = SEDOL, ISIN, CUSIP, Ticker</li> <li>▪ 11 = SEDOL, Ticker, ISIN, CUSIP</li> <li>▪ 12 = SEDOL, Ticker, CUSIP, ISIN</li> <li>▪ 13 = ISIN, CUSIP, SEDOL, Ticker</li> <li>▪ 14 = ISIN, CUSIP, Ticker, SEDOL</li> <li>▪ 15 = ISIN, SEDOL, CUSIP, Ticker</li> <li>▪ 16 = ISIN, SEDOL, Ticker, CUSIP</li> <li>▪ 17 = ISIN, Ticker, CUSIP, SEDOL</li> <li>▪ 18 = ISIN, Ticker, SEDOL, CUSIP</li> <li>▪ 19 = Ticker, CUSIP, ISIN, SEDOL</li> <li>▪ 20 = Ticker, CUSIP, SEDOL, ISIN</li> <li>▪ 21 = Ticker, SEDOL, ISIN, CUSIP</li> <li>▪ 22 = Ticker, SEDOL, CUSIP, ISIN</li> <li>▪ 23 = Ticker, ISIN, SEDOL, CUSIP</li> <li>▪ 24 = Ticker, ISIN, CUSIP, SEDOL</li> </ul> <p>Default value is 1.</p> |
| <b>SYMBOL_PREFIX</b>        |   | 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.   |
| <b>EXCLUDE_UNSETTLED_TX</b> | √ | NUMBER | <p>Exclude unsettled transactions, which have settlement date is later than the prior business day.</p> <ul style="list-style-type: none"> <li>▪ 0 = include unsettled transactions</li> </ul>  |



|                           |   |        |  |
|---------------------------|---|--------|--|
|                           |   |        | <ul style="list-style-type: none"> <li>▪ 1 = exclude unsettled transactions. Default value is "1".</li> </ul>  |
| <b>CREATE_INCOME_POS</b>  | √ | NUMBER | <p>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 will be set from the original position. The original position will have its INCOME_UNITS field set to the default (blank or zero).</p> <ul style="list-style-type: none"> <li>▪ 0 = do not create separate income positions</li> <li>▪ 1 = Create separate income positions</li> <li>▪ Default value is 0.</li> </ul> |
| <b>COMBINE_DUP_POS</b>    | √ | NUMBER | <p>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.</p> <ul style="list-style-type: none"> <li>▪ 0 = do not combine duplicate positions.</li> <li>▪ 1 = Combine duplicate positions. Default value is 0.</li> </ul>  |
| <b>EXCLUDE_NOUNIT_POS</b> | √ | NUMBER | <p>Remove positions that have no units. After other position manipulations are performed (backing out unsettled transactions, creating separate income positions, combining positions), any</p>  |

|                                       |   |        |   |
|---------------------------------------|---|--------|---|
|                                       |   |        | <p>position that has zero in the units field will be excluded from the output as will any associated position lots.</p> <ul style="list-style-type: none"> <li>▪ 0 = do not remove positions that have no units.</li> <li>▪ 1 = remove positions that have no units.</li> </ul> <p>Default value is 1 for PortfolioCenter and 0 for Universal.</p>  |
| <b>TX_DATE_TYPE</b>                   | √ | NUMBER | <p>Set the date type to use for transactions. Defaults to Trade.</p>  |
| <b>ACCOUNT_IDENTIFIER_MAXLEN</b>      | √ | NUMBER | <p>Set the maximum length of the account identifier.</p> <ul style="list-style-type: none"> <li>▪ Universal: default is 128, but can be set between 19-128, inclusive.</li> <li>▪ PortfolioCenter: default is 30, but can be set 19-30, inclusive.</li> </ul>   |
| <b>COMMENT_TXTYPE</b>                 | √ | STRING | <p>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.</p> |
| <b>ENABLE_LOTS</b>                    | √ | NUMBER | <p>Enable tax lot functionality.</p> <ul style="list-style-type: none"> <li>▪ 0 = do not enable tax lots</li> <li>▪ 1 = enable tax lots</li> </ul> <p>Default value is 0.</p>   |
| <b>NUMBER_FUTURE_TRADEDATE_DAYS</b>   | √ | NUMBER | <p>Set the number of days in the future allowed on trade dates.</p> <p>Default is 7.</p>  |
| <b>EXCLUDE_OOD_AND_EXPTODAY_ACCTS</b> | √ | NUMBER | <p>Exclude accounts that are out of date and accounts that have been exported today.</p> <p>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</p>   |

|                                     |   |        |  |
|-------------------------------------|---|--------|--|
|                                     |   |        | <p>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 CI SaaS today.</p> <ul style="list-style-type: none"> <li>▪ 0 = no</li> <li>▪ 1 = yes</li> </ul> <p>Default value is 0.</p> |
| <b>INCLUDE_NOTYETEXPTODAY_ACCTS</b> | √ | NUMBER | <p>Include all accounts not yet exported today, including stale and failed accounts. Not applicable to CI SaaS.</p>  |
| <b>INCLUDE_ACCTS_EXP</b>            | √ | NUMBER | <p>Include accounts for export. Controls the creation of the accounts file.</p> <ul style="list-style-type: none"> <li>▪ 0 = do not include accounts for export.</li> <li>▪ 1 = include accounts for export.</li> </ul> <p>Default value is 1.</p>   |
| <b>INCLUDE_TRANS_EXP</b>            | √ | NUMBER | <p>Include transactions for export. Controls the creation of the transaction file.</p> <ul style="list-style-type: none"> <li>▪ 0 = do not include transactions for export</li> <li>▪ 1 = include transactions for export</li> </ul> <p>Default value is 1.</p>  |
| <b>INCLUDE_POS_EXP</b>              | √ | NUMBER | <p>Include positions for export. Controls the creation of the positions file.</p> <ul style="list-style-type: none"> <li>▪ 0 = do not include transactions for export</li> <li>▪ 1 = include transactions for export</li> </ul> <p>Default value is 1.</p>   |
| <b>INCLUDE_SEC_EXP</b>              | √ | NUMBER | <p>Include securities for export. Controls the creation of a securities file.</p> <ul style="list-style-type: none"> <li>▪ 0 = do not include securities for export</li> <li>▪ 1 = include securities for export</li> </ul> <p>Default value is 1.</p>   |
| <b>INCLUDE_PRICE_EXP</b>            | √ | NUMBER | <p>Include security prices for export. Controls the creation of a price file.</p> <ul style="list-style-type: none"> <li>▪ 0 = do not include security prices for export</li> </ul>  |

|                           |  |        |   |
|---------------------------|--|--------|---|
|                           |  |        | <ul style="list-style-type: none"> <li>▪ 1 = include security prices for export</li> </ul> <p>Default value is 1.</p>   |
| <b>DEF_NUM_PRICE_DAYS</b> |  | NUMBER | <p>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 where 1 indicates only the previous business day.</p> <p>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.</p> |

**accounttranslation.csv**

| Column                           | Required | Data Type | Description  |
|----------------------------------|----------|-----------|--|
| <b>ID</b>                        | √        | ID        | Database ID of the Account Translation   |
| <b>CI_CONFIGURATION_ID</b>       | √        | ID        | Database ID of the CI configuration used to generate the Account Translation file  |
| <b>ACCOUNT_ID</b>                | √        | ID        | Account ID   |
| <b>OUTPUT_ACCOUNT_IDENTIFIER</b> |          | CHAR64    | User-assigned account identifier to be output to CI output files. Default is null.   |
| <b>INCLUDE_OVERRIDE</b>          |          | 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. |
| <b>EXPORT_POS_IF_STALE</b>       |          | NUMBER    | Null = use global setting, 1 = always export positions that are stale. No other setting supported.   |
| <b>MM_SYMBOL</b>                 |          | CHAR512   | Null = no MM symbol. Otherwise, the symbol to use for this account for 'money market balance' holdings. Default is null.                               |
| <b>MM_SYMBOL_TYPE</b>            |          | CHAR6     | 0 – CUSIP<br>1 - ISIN<br>2 - SEDOL<br>3 - Ticker<br>4 - UNKNOWN  |

|                           |   |           |  |
|---------------------------|---|-----------|--|
| <b>CREATION_TIME</b>      | √ | TIMESTAMP | Account Translation record creation timestamp in format yyyyMMddHHmmss [<'offset':>:zzz] |
| <b>LAST_MODIFIED_TIME</b> | √ | 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   |
|--------------------------------|----------|-----------|---|
| <b>ID</b>                      | √        | ID        | Database ID of the Security Translation   |
| <b>CI_CONFIGURATION_ID</b>     | √        | ID        | Database ID of the CI configuration used to generate the Security Translation file  |
| <b>OUTPUT_SEC_TYPE</b>         | √        | CHAR50    | Right-hand side of translation, tool-specific security type   |
| <b>OUTPUT_SYMBOL_TYPE</b>      |          | CHAR6     | Right-hand side of translation, CSV only (null for other tools)   |
| <b>OUTPUT_SYMBOL</b>           | √        | CHAR512   | Right side of translation, symbol to output (called axysTicker in CI schema).   |
| <b>INPUT_TICKER</b>            |          | CHAR512   | The Ticker used to match the BAA source object (left-hand side of translation).   |
| <b>INPUT_CUSIP</b>             |          | 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. |
| <b>INPUT_NAME</b>              |          | CHAR512   | The NAME used to match the BAA source object (left-hand side of translation).   |
| <b>INPUT_FI_ID</b>             |          | 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.          |
| <b>INPUT_ACCOUNT_ID</b>        |          | 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.                 |
| <b>SECURITY_REFERENCE_NAME</b> |          | 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. |
| <b>CREATION_TIME</b>      | √ | TIMESTAMP | Security Translation record creation timestamp in format yyyyMMddHHmmss [<'offset':zzz]   |
| <b>LAST_MODIFIED_TIME</b> | √ | 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  |
|-----------------------------------|----------|-----------|--|
| <b>ID</b>                         | √        | ID        | Database ID of the new account   |
| <b>FINANCIAL_INSTITUTION_NAME</b> | √        | CHAR128   | Name of the financial institution related to this account                                |
| <b>ACCOUNT_NAME</b>               | √        | CHAR64    | Name of account holding the position or transaction                                      |
| <b>ACCOUNT_NUMBER</b>             |          | CHAR256   | Number of account holding the position or transaction                                    |
| <b>IS_EXCEPTION</b>               | √        | BOOLEAN   | Position market value or Transaction total amount  |
| <b>TX_EARLIEST_TRADE_DATE</b>     |          | 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  |
|----------------------------|----------|-----------|--|
| <b>ID</b>                  | √        | ID        | Database ID of Auto Security Translation   |
| <b>CI_CONFIGURATION_ID</b> | √        | ID        | Database ID of the CI configuration used to generate the auto sec translation file   |
| <b>INPUT_NAME</b>          | *        | CHAR512   | Potentially used as the input name value for a security translation to translate this undefined security.  |
| <b>INPUT_TICKER</b>        | *        | CHAR512   | Potentially used as input ticker value for a security translation to translate this undefined security.  |
| <b>INPUT_CUSIP</b>         | *        | 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. |
| <b>INPUT_FI_ID</b>         |          | ID        | Database ID of institution from which this undefined security originated   |

|                             |   |         |   |
|-----------------------------|---|---------|---|
| <b>INPUT_FI_NAME</b>        |   | CHAR128 | Name of institution from which this undefined security originated   |
| <b>OUTPUT_SECURITY_TYPE</b> | √ | CHAR20  | The security type that will be output for this undefined security. Export output values: EQ, FI, MF, OP, MU, OT |
| <b>OUTPUT_SYMBOL</b>        | √ | 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   |
|------------------------------|----------|-----------|---|
| <b>AUTO_SECURITY_XLAT_ID</b> | √        | ID        | Database ID of Auto Security Translation  |
| <b>CI_CONFIGURATION_ID</b>   | √        | ID        | Database ID of the CI configuration used to generate the file   |
| <b>TYPE</b>                  | √        | CHAR32    | Reference is a ‘POSITION’ or ‘TRANSACTION’  |
| <b>ID</b>                    | √        | ID        | Database ID of Position or Transaction  |
| <b>NAME</b>                  | *        | CHAR512   | Position or Transaction name  |
| <b>TICKER</b>                | *        | CHAR32    | Position FI_SUPPLIED_TICKER or Transaction TICKER   |
| <b>CUSIP</b>                 | *        | 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. |
| <b>FI_ID</b>                 |          | ID        | Institution database ID   |
| <b>FI_NAME</b>               |          | CHAR128   | Institution name  |
| <b>ACCOUNT_ID</b>            | √        | ID        | Database ID of account holding the position or transaction  |
| <b>ACCOUNT_NAME</b>          | √        | CHAR64    | Name of account holding the position or transaction   |
| <b>ACCOUNT_NUMBER</b>        |          | CHAR256   | Number of the account holding the position or transaction   |
| <b>MARKET_VALUE</b>          |          | NUMBER    | Position market value or Transaction total amount   |
| <b>UNITS</b>                 |          | NUMBER    | Position or Transaction units   |
| <b>PRICE</b>                 |          | NUMBER    | Position price (only when reference is a position)  |
| <b>PRICE_AS_OF</b>           |          | DATE      | Position price as of date (only when reference is a position) in the format YYYYMMDD  |
| <b>EXECUTION_DATE</b>        |          | 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  |
|--------------------------|----------|-----------|--|
| <b>COLUMN_ID</b>         | √        | CHAR      | Composite field of output file and COLUMN_NAME<br>Possible values for the output file are:<br>ACCOUNTS<br>TRANSACTIONS<br>POSITIONS<br>SECURITIES<br>PRICES<br>Example:<br>ACCOUNTS_ACCOUNT_IDENTIFIER   |
| <b>COLUMN_NAME</b>       | √        | CHAR50    | Output field name<br>Example: ACCOUNT_IDENTIFIER   |
| <b>DATA_TYPE</b>         | √        | CHAR10    | Possible DATA_TYPE values:<br>CHARN<br>NUMBER<br>BOOLEAN<br>DATE<br>TIMESTAMP  |
| <b>INCLUDE_OPTS</b>      | √        | CHAR5     | Specifies whether the COLUMN_NAME is included in the CI SaaS export file.<br>Possible values:<br>true or false   |
| <b>ORDER_DEFAULT</b>     | √        | NUMBER    | Default numeric position in the sequence, beginning at 1.  |
| <b>ORDER_VALUE</b>       | √        | NUMBER    | Actual numeric position in the sequence, beginning at 1.   |
| <b>POSSIBLE_DEFAULTS</b> |          | CHAR1024  | Enables customization of the DEFAULT_VALUE when a field is empty. Possible defaults are provided as a comma-separated list.<br>The values used are:<br>NUMBER fields: "", "0", "1"<br>CHAR fields:<br><ul style="list-style-type: none"> <li>▪ ISO_CODES (indicates country codes for currency fields),</li> <li>▪ "P", "I" (indicators for PRINCIPAL_OR_INCOME field)</li> </ul> DATE fields: "", "PBD" |
| <b>DEFAULT_VALUE</b>     |          | CHAR64    | The preselected value chosen from the options in POSSIBLE_DEFAULTS.  |
| <b>POSSIBLE_OVERRIDE</b> |          | 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. |
| <b>OVERRIDE_OPT</b>         |  | CHAR512 | Value selected from the options in POSSIBLE_OVERRIDE.   |
| <b>POSSIBLE_CUSTOM_OPTS</b> |  | CHAR512 | Comma separated list of custom options. In practice only custom option is ABSOLUTE_VALUE  |
| <b>CUSTOM_OPTS</b>          |  | 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>
```