



Data Transfer Guide

Advertiser Correction Data

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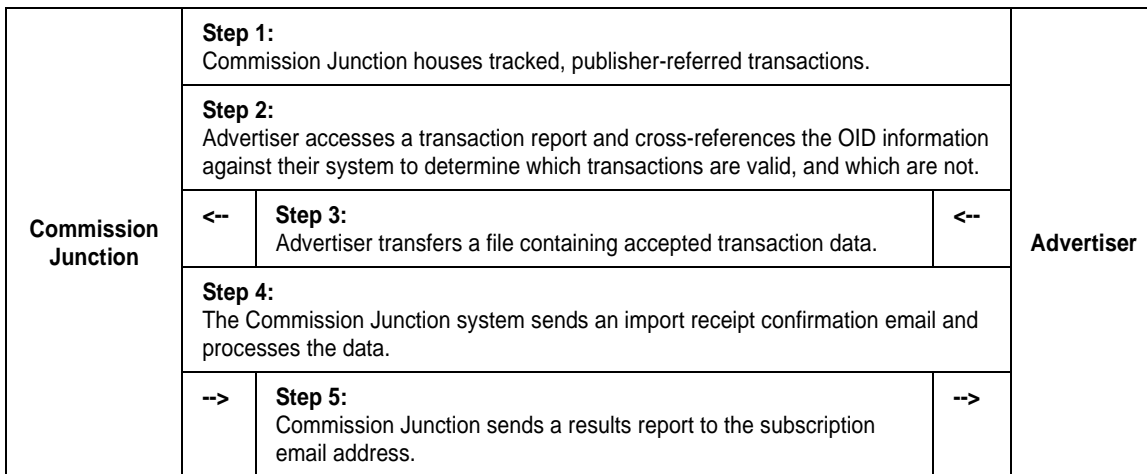
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Overview

Commission Junction's data transfer system enables advertisers to efficiently apply hundreds of corrections to their accounts, instead of having to manually apply corrections online within the *CJ Account Manager*TM. For example, an advertiser may decide to hold all product return corrections until the end of the month and then submit one file to Commission Junction containing all of these corrections. The system supports the transfer of the following types of corrections.

- Full: A full correction involves correcting the entire action.
- Partial Item-based: A partial item-based correction involves correcting the quantity of items in a given action.
- Partial Non Item-based: A partial non item-based correction involves correcting the amount attached to a given action.

The diagram below illustrates the typical process flow when an advertiser implements correction data transfer.



Subscription Set-up Overview

Implementation of correction data transfer requires an advertiser to gather the correction information to be transferred in an ASCII file to Commission Junction. The file must contain certain values in a specific format to be recognized by the Commission Junction system. These values and other settings are part of your subscription, which determines the data transfer specifications. Additionally, Commission Junction configures your data format and transport method of your data transfer results to the recommended default. Commission Junction contacts you to obtain the necessary information to configure your subscription.

Contacting Commission Junction

For assistance, please contact Technical Support by accessing the **Contact Us** hyperlink in your *CJ Account Manager*. In the pop-up window, click the **Go** link in the Ask a Question area. Select the category from the following list of choices.

Information	Selection
Data Transfer Requests (except re-integration)	<i>Data Transfer>Data Transfer Request</i>
Re-Integration Requests	<i>Action Integration>Action Integration</i>
Data Transfer General Questions	<i>Data Transfer>Data Transfer Q&A</i>
Product Catalog Data Requests	<i>Data Transfer>Product Catalog</i>
Item List Requests	<i>Data Transfer>Data Transfer Request</i>

Note: (Regarding Re-Integration) If you are currently integrated in the CJ Marketplace and switching from standard to item-based data transfer, ensure your tracking allows for the 7-day period in which publishers may decide whether to accept the new terms associated with the action change.

For example, a publisher can refer standard actions for the first 3 days of the 7-day period, accept the new program terms on day 4, and refer item-based actions thereafter. Your data file submissions for this period must include data for both actions—in essence, a double reporting of action data. The Commission Junction system determines which records in your data files are applicable and disregard the remainder. This ensures that all referred actions are properly credited.

Supported Transfer Methods

Once your data is collected, reviewed and formatted to Commission Junction specifications, your data can be transferred in an ASCII file to Commission Junction via one of the following methods:

- **email:** Advertiser emails data file to Commission Junction.
- **Commission Junction FTP:** Advertiser transfers file via FTP to Commission Junction FTP server.
- **Client FTP:** Advertiser makes file available on client FTP server for Commission Junction to access.
- **HTTP/HTTPS:** Advertiser makes file available at a specific URL for Commission Junction to access.

Note: Export files are left on the CJ FTP/HTTP/HTTPS server for 30 days (7 days for products).

Successful import files are archived for 120 days (2 days for products). Unsuccessful (error) import files are archived for 30 days (3 days for products).

Transfer Overview (email and Commission Junction FTP)

Advertiser	-->	Step 1: Advertiser transfers data file via email or FTP. Commission Junction system processes data.	-->	Commission Junction
	<--	Step 2: Commission Junction system sends an import receipt confirmation email, processes the transaction file and returns a results report to subscription email address.	<--	

Transfer Overview (Client FTP, HTTP and HTTPS)

Advertiser	-->	Step 1: Commission Junction system retrieves data file from advertiser FTP server or HTTP/HTTPS address and processes data.	-->	Commission Junction
	<--	Step 2: Commission Junction system sends an import receipt confirmation email, processes the transaction file and returns a results report to subscription email address.	<--	

Note: Your ASCII file must contain specific values and formatting to be processed by the Data Transfer system. Refer to Content Guidelines and Format Guidelines for specifications.

Content Guidelines

Character Sets

Commission Junction supports the following default character set for transferred files:

- Microsoft Codepage 1252 (includes 7-bit ASCII, ISO Latin 1, and several additional characters)

Commission Junction supports a handful of other character sets in addition to Codepage. For delimited formats (pipe, tab or comma), the header of the file must contain an ENCODING field to enable our system to process a non-default character set (see table below). For XML format, a non-default character set must be specified before the file's header (see Data File Examples).

Header Fields

The following table lists the header fields (both required and optional) and ordering that are supported for inclusion in your ASCII file you transfer to Commission Junction.

Field	Description	Required
CID	The advertiser's account number with Commission Junction. Example: 2539845	Yes
SUBID	The advertiser's subscription ID for correction data transfer. Example: 143	Yes
ENCODING	The character set to which your data conforms. This field applies to delimited formats only, not XML. Any characters outside of the specified character set return a processing error. If you only provide characters that fall within the default set (Microsoft Codepage 1252, including ISO Latin 1 and 7-bit ASCII)—and do not require strict adherence to a particular set—this field is optional. Supported values include: <ul style="list-style-type: none"> ▪ UTF-8: Eight-bit Unicode Transformation Format, restricted to BMP (including all Unicode characters up to code point 65535) ▪ ISO-8859-1: ISO Latin 1 ▪ ISO-8859-15 ▪ Cp1252: Microsoft Codepage 1252 ▪ US-ASCII: 7-bit ASCII 	No

Body Fields - Full and Partial Corrections

The following table lists the item-based and non-item based body fields (both required and optional) and ordering that are supported for inclusion in your ASCII file. A record must include placeholders for the REASON, TID, and OID fields (in that order) to perform a full correction. To perform an item-based partial correction, your correction must include placeholders for REASON, TID, OID and ITEM (in that order). To perform a non item-based partial correction, your correction must include placeholders for REASON, TID, OID, and AMOUNT fields (in that order). Optionally, you may include a placeholder for ID to identify any type of correction, although ID must be the last placeholder.

Note: Do not include characters in your data that break your import format (e.g., CSV data including commas, TAB data including tabs, etc.).

Note: Pipe characters (|) are not supported within any values.

Item-Based Corrections				
Field	Description	Example	Placeholder Required	Value Required
REASON	<p>The reason for the correction which corresponds to one of the following values (case-sensitive).</p> <ul style="list-style-type: none"> ▪ CC: Invalid credit card ▪ UQL: Unqualified lead ▪ CSSO: Cannot ship/sold out ▪ DUPO: Duplicate order ▪ RETRN: Returned merchandise. ▪ OTHER: None of the above. 	NA	Yes	Yes
TID	<p>Unique ID number that Commission Junction assigns for each action transaction. It appears in the CJ Account Manager commission report under the TID column.</p>	136841	Yes	Required if OID not supplied.
OID	<p>The advertiser-supplied Order ID number that identifies the transaction</p> <p>Commission Junction prohibits the submission of personally identifiable information—such as a full or partial email address—in the OID value.</p> <p>Note: Include only alphanumeric characters within the OID field to avoid errors. You must URL-encode any special characters or extra spaces used in this field.</p>	OTZ16415 41E	Yes	Required if TID not supplied.

<p>ITEM (quantity)</p>	<p>The value for this field indicates the portion of the original quantity of the item-based transaction you wish to correct. The quantity must be a negative number.</p> <p>For example, with SKU1;-2, the current quantity associated to SKU1 will be corrected by 2. So, if the current quantity was 5, the new quantity will be 3. With SKU1;-2;;SKU2;-1, multiple items belonging to the same action (sale or lead) can be corrected with one submission.</p> <hr/> <p>Note: This field applies to item-based partial corrections only. If submitting an ITEM value, do not include an AMOUNT placeholder.</p>	<p>SKU1;-2 or SKU1;-2;;SKU2;-1</p>	<p>No</p>	<p>No</p>
<p>ITEM (amount)</p>	<p>The value for this field indicates the portion of the original amount you wish to correct. This field may be used to adjust discount amounts from the original amount.</p> <p>For example, with SKU1:12.55, the gross amount associated to SKU1 will be corrected by 10.00 (in the associated functional currency). So if the gross amount was 100.00 USD, the net amount would be 87.45 USD. With SKU1:12.55;;SKU2:8.99, multiple items belonging to the same action can be corrected with one submission.</p> <hr/> <p>Note: This field applies to item-based partial corrections only. If submitting an ITEM value, do not include an AMOUNT placeholder.</p>	<p>SKU1:12.55 Or SKU1:12.55;;SKU2:8.99</p>	<p>No</p>	<p>No</p>
<p>ID</p>	<p>The value for this field indicates the unique ID associated with this particular correction.</p> <hr/> <p>Note: If you wish to perform multiple partial corrections for the same transaction, you must use a new Correction ID for each correction attempt. This applies to both item-based and non item-based actions. If you do not use a Correction ID, you may only partially correct each transaction once. If you attempt to perform multiple partial corrections without using new Correction IDs, the data transfer system encounters an error.</p> <p>The format of this field is: IDXXX where ID is required and XXX must be a numeric character string. The max length for this value is 12.</p>	<p>ID837423423 2 or ID000000000</p>	<p>No</p>	<p>No</p>

Non Item-Based Corrections				
Field	Description	Example	Placeholder Required	Value Required
REASON	<p>The reason for the correction which corresponds to one of the following values (case-sensitive).</p> <ul style="list-style-type: none"> ▪ CC: Invalid credit card ▪ UQL: Unqualified lead ▪ CSSO: Cannot ship/sold out ▪ DUPO: Duplicate order ▪ RETRN: Returned merchandise. ▪ OTHER: None of the above. 	NA	Yes	Yes
TID	<p>Unique ID number that Commission Junction assigns for each action transaction. It appears in the CJ Account Manager commission report under the TID column.</p>	136841	Yes	Required if OID not supplied.
OID	<p>The advertiser-supplied Order ID number that identifies the transaction</p> <p>Commission Junction prohibits the submission of personally identifiable information—such as a full or partial email address—in the OID value.</p> <hr/> <p>Note: Include only alphanumeric characters within the OID field to avoid errors. You must URL-encode any special characters or extra spaces used in this field.</p>	OTZ16415 41E	Yes	Required if TID not supplied.
AMOUNT	<p>The value for this field indicates the portion of the original transaction's amount you wish to correct (in your account's functional currency). If not specified, products default to the advertiser's functional currency.</p> <p>All currency values must be positive values in a numerical format with a decimal point as needed. No other characters, such as dollar signs (\$) or commas (,), are currently supported by the Commission Junction system.</p> <hr/> <p>Note: For a partial correction, the amount cannot be equal to or greater than the total dollar amount. For a full correction, exclude the dollar amount.</p> <p>Note: This field applies to non item-based corrections only. If submitting an AMOUNT value, do not include an ITEM placeholder.</p>	100.99	Yes	Yes

ID	<p>The value for this field indicates the unique ID associated with this particular correction.</p> <hr/> <p>Note: If you wish to perform multiple partial corrections for the same transaction, you must use a new Correction ID for each correction attempt. This applies to both item-based and non item-based actions. If you do not use a Correction ID, you may only partially correct each transaction once. If you attempt to perform multiple partial corrections without using new Correction IDs, the data transfer system encounters an error.</p> <p>The format of this field is: IDXXX where ID is required and XXX must be a numeric character string. The max length for this value is 12.</p>	ID837423 4232 or ID000000 000	No	No
----	---	--	----	----

Important: You must supply either a TID value, OID value, or both for each record. If both are supplied, the TID is used. If you decide to use only the OID, you must ensure that it is unique for each transaction. Refer to Data File Examples for different placeholder scenarios involving TID and OID values.

Format Guidelines

Commission Junction supports the following data file formats for imports and results reports.

- Pipe-delimited
- Tab-delimited
- Comma-delimited (CSV)
- XML (eXtensible Markup Language)
- Name/Value (for results reports only)

This section provides simple import examples of the supported formats, along with a list of general guidelines for each. For additional examples, see the Data File Examples section.

Pipe-delimited

Note: Although supported, pipe-delimited format causes frequent errors. To avoid errors, choose another format if possible.

Type of Correction	Sample Code	Description
Non Item-based Correction (Full)	CC 136841 OTZ1641541E	Simple full correction with all fields.
	CC 136841	Populate reason and ID fields for simple full correction.
	CC OTZ1641541E	Populate reason and OID fields for simple full correction.
Non Item-based Correction (Partial)	CC 136841 OTZ1641541E 100.99	Simple partial correction.
	CC 136841 OTZ1641541E 100.99 ID000000001	Multiple simple partial corrections. This Includes the ID value that the advertiser creates.
Item-based Correction (Full)	CC 136841 OTZ1641541E	Simple full correction with all fields.
	CC 136841	Populate reason and ID fields for simple full correction.
	CC OTZ1641541E	Populate reason and OID fields for simple full correction.
Item-based Correction (Partial)	CC 136841 OTZ1641541E SKU1;-2	Partial item correction.
	CC 136841 OTZ1641541E SKU1;-2;;SKU2;-1	Partial item corrections for multiple SKU.
	CC 136841 OTZ1641541E SKU1;-2 ID000000001	Partial item corrections multiple times.
	CC 136841 OTZ1641541E SKU1:12.55	Partial item discount correction.

Note: For partial corrections the TID or OID can be omitted. See full correction for examples.

Tab-delimited

In the examples below, "->" represents the point at which a tab must occur. The actual file should not have this character.

Type of Correction	Sample Code	Description
Non Item-based Correction (Full)	CC->136841->OTZ1641541E	Simple full correction with all fields.
	CC->136841->	Populate reason and ID fields for simple full correction.
	CC->-> OTZ1641541E	Populate reason and OID fields for simple full correction.
Non Item-based Correction (Partial)	CC->136841->OTZ1641541E ->100.99	Simple partial correction.
	CC->136841->OTZ1641541E->100.99>ID000000001	Multiple simple partial corrections. This Includes the ID value that the advertiser creates.
Item-based Correction (Full)	CC->136841->OTZ1641541E	Simple full correction with all fields.
	CC->136841->	Populate reason and ID fields for simple full correction.
	CC->-> OTZ1641541E	Populate reason and OID fields for simple full correction.
Item-based Correction (Partial)	CC->136841->OTZ1641541E->SKU1;-2	Partial item correction.
	CC->136841->OTZ1641541E->SKU1;-2;;SKU2;-1	Partial item corrections for multiple SKU.
	CC->136841->OTZ1641541E->SKU1;-2->ID000000001	Partial item corrections multiple times.
	CC->136841->OTZ1641541E->SKU1:12.55	Partial item discount correction.

Note: For partial corrections the TID or OID can be omitted. See full correction for examples.

Comma-delimited (CSV)

Type of Correction	Sample Code	Description
Non Item-based Correction (Full)	CC,136841,OTZ1641541E	Simple full correction with all fields.
	CC,136841,	Populate reason and ID fields for simple full correction.
	CC,, OTZ1641541E	Populate reason and OID fields for simple full correction.
Non Item-based Correction (Partial)	CC,136841,OTZ1641541E,100.99	Simple partial correction.
	CC,136841,OTZ1641541E-,100.99,ID000000001	Multiple simple partial corrections. This includes the ID value that the advertiser creates.
Item-based Correction (Full)	CC,136841,OTZ1641541E	Simple full correction with all fields.
	CC,136841,	Populate reason and ID fields for simple full correction.
	CC,, OTZ1641541E	Populate reason and OID fields for simple full correction.
Item-based Correction (Partial)	CC,136841,OTZ1641541E,SKU1;-2	Partial item correction.
	CC,136841,OTZ1641541E,SKU1;-2;;SKU2;-1	Partial item corrections for multiple SKU.
	CC,136841,OTZ1641541E,SKU1;-2,ID000000001	Partial item corrections multiple times.
	CC,136841,OTZ1641541E,SKU1:12.55	Partial item discount correction.

Note: For partial corrections the TID or OID can be omitted. See full corrections for examples.

Note: If exporting a CSV file from Excel for import to the Commission Junction system, you must open the file post-export in a text editor and remove the stray commas from the headers placed by Excel. If your file is large, you may need a special editor to edit the file. If you do not remove the stray commas, an error message generates upon import and no results transmit.

Requirements for Delimited (Pipe, Tab and Comma) Formats

All Delimited	Each record or product must appear on a separate line. Records or products may NOT be continued on a second line (no line feeds permitted).
	No control characters (including tabs) or extra spaces may be used. Pay particular attention to the ends of lines in the header and body, which should not end in white space (tab or space).
	Note: (<i>Tab-delimited only</i>) If you plan to omit the last value from any records in your files, use GPG to sign your file as PGP has a bug that does not allow trailing white space (tab or space). An alternative is to set up your subscription for another format (pipe-delimited, comma-delimited or XML).
	No word wrapping may be used.
	Lines beginning with ; are treated as comments and are ignored by the system.
	You must provide a pipe, tab or comma character in each record to allow for both potential values in each record. Even if you will not provide either the TID or OID, you must provide a placeholder for both in your file. For example, the second line above begins with a character (-> or ,) to denote an empty TID value.
Comma Delimited Only	If a comma exists within a value, quotation marks must be placed around the value (e.g., z9320-sale, discount would be "z9320-sale, discount"). This prevents the system from considering the comma to be a divider between values.
	If a value contains double quotes, you must enclose the entire value in double quotes and escape the value's quotes by preceding them with additional double quotes (e.g., big "black" dog must be displayed as "big ""black"" dog").

XML

Non Item-based Correction

```
<correction>
<reason>OTHER</reason>
<ActionID/>
<oid>t6557</oid>
</correction>
```

Item-based Correction

```
<correction>
<reason>UQL</reason>
<tid>65788</tid>
<oid>o3462</oid>
<item>
  <item_id>SKU1</item_id>
  <item_qty>-2</item_qty>
</item>
<item>
  <item_id>SKU2</item_id>
  <item_qty>-1</item_qty>
</item>
<id>ID34566777</id>
</correction>
```

Requirements for XML Formats

- Your XML file must conform to the requirements of a well-formed XML document. The official specification is located at <http://www.w3.org/TR/REC-xml>.
- XML tags are case-sensitive.
- No control characters (including tabs) or extra spaces may be used within brackets.
- The following characters may not be used without special commands: > < & " ' '
- Pipe-delimited is not a valid character for XML.

If you need to use one or more of the above characters, the commands in the table below enables you to use them.

Character	Description	Code to Use
<	less than	<
>	greater than	>
&	ampersand	&
'	apostrophe	'
"	quotation mark	"

For example, the following would be entered to represent "text": "text"

- Comments are allowed, in the following format: <!-- this data will be ignored -->
- Empty values must be represented by a placeholder with a forward slash character after the value.
- You must provide specific text prior to your file's header, depending on whether you wish to specify a particular character set.
- The header and body content of XML-formatted files must conform to a specific DTD (Document Type Definition). The DTD includes all possible fields to support XML transfer of data. The DTD is located at the following URL and displayed below.
http://www.cj.com/downloads/tech/dtd/advertiser_correction_data_1_2.dtd

XML Document Type Definition

```

<!-- DTD for Advertiser Correction Data -->

<!-- Each file must have one header section and at least one correction -->
<!ELEMENT advertiser_correction_data (header,correction+)>

<!-- The header element -->
<!ELEMENT header (cid,subid)>
<!ELEMENT cid (#PCDATA)>
<!ELEMENT subid (#PCDATA)>

<!-- All nested elements for the transaction element must be included -->
<!ELEMENT correction ((reason,tid,oid) |
    (reason,tid,oid,amount?,id?) |
    (reason,tid,oid,item*,id?))
>
<!ELEMENT reason (#PCDATA)>
<!ELEMENT tid (#PCDATA)>
<!ELEMENT oid (#PCDATA)>
<!ELEMENT amount (#PCDATA)>
<!ELEMENT item (item_id,item_qty)>
<!ELEMENT id (#PCDATA)>

<!-- The item element has two sub elements which must be included -->
<!ELEMENT item_id (#PCDATA)>
<!ELEMENT item_qty (#PCDATA)>

```

Data File Examples

This section provides data file examples and requirements for each of the supported formats.

Header Examples

Delimited Formats

```
&CID=936
&SUBID=123
```

XML

```
<header>
<cid>936</cid>
<subid>123</subid>
</header>
```

Body Examples

This section contains examples of full corrections only, to illustrate the fields required in all correction data records - REASON, TID and OID.

Pipe-delimited

OTHER 1341 OTZ1541541	This line uses TID and OID. TID takes precedence.
UQL 1341	This line uses only the TID, but a second pipe is required as a placeholder for the OID.
OTHER OTZ1541541	This line uses only the OID, but consecutive pipes provide a placeholder for the TID.

Tab-delimited

UQL->1341->	This line uses only the TID, but a second tab is required as a placeholder for the OID.
OTHER->->OTZ1541541	This line uses only the OID, but consecutive tabs provide a placeholder for the TID.
OTHER->1341-> >OTZ1541541	This line uses TID and OID. TID takes precedence.

Comma-delimited

UQL,1341,	This line uses only the TID, but a second comma is required as a placeholder for the OID.
OTHER,,OTZ1541541	This line uses only the OID, but consecutive commas provide a placeholder for the TID.
OTHER,1341,OTZ1541541	This line uses TID and OID. TID takes precedence.

XML

Empty values in XML format require a placeholder ("OID/>" in the example below).

```
<REASON>UQL</REASON>
<TID >1341</TID >
<OID/>
```

Complete Examples

The examples in this section illustrate a mixture of supplied data, though actual submissions are generally more consistent (always provide TID only, always provide OID only, always provide both).

Delimited Formats

Pipe-delimited	Tab-delimited	Comma-delimited
&CID=936	&CID=936	&CID=936
&SUBID=123	&SUBID=123	&SUBID=123
UQL 391035 13.99	UQL->391035->->13.99	UQL,391035,,13.99
CSSO 366777	CSSO->366777->	CSSO,366777,
UQL 65788 o3462 42.67	UQL->65788->o3462->42.67	UQL,65788,o3462,42.67
RETRN 386264 14.56	RETRN->386264->->14.56	RETRN,386264,,14.56
RETRN o434862	RETRN->->o434862	RETRN,,o434862
UQL 406917 38.49	RETRN->->o434862	UQL,406917,,38.49
	UQL->406917->->38.49	

XML

As shown in examples 1 and 2, you must insert specific information before your file's header to enable the Commission Junction system to check the file against our DTD specification and properly process your file. The desired character set may also be specified (see Example 2).

Example 1: Character Set Not Specified

```
<?xml version="1.0"?>
<!DOCTYPE advertiser_correction_data SYSTEM
"http://www.cj.com/downloads/tech/dtd/advertiser_correction_data_1_2.dtd">
```

Example 2: Character Set Specified

An optional "encoding" field can be added to the pre-header text if you wish to specify the character set to which your data will adhere. As with delimited formats, Microsoft Codepage 1252 is supported by default. If this set does not meet your needs, you must use the encoding attribute to specify the desired set. The example below specifies UTF-8. Supported sets are described earlier in the document.

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE advertiser_correction_data SYSTEM
"http://www.cj.com/downloads/tech/dtd/advertiser_correction_data_1_2.dtd">
```

Complete XML Examples

Non Item-based Correction

In the example below, the first record performs a full correction (REASON, TID, OID), while the second performs a partial correction (REASON, TID, OID, AMOUNT). You must add the AMOUNT value within the following tags: <amount></amount>.

```
<?xml version="1.0"?>
<!DOCTYPE advertiser_correction_data SYSTEM
"http://www.cj.com/downloads/tech/dtd/advertiser_correction_data_1_2.dtd">
<advertiser_correction_data>
  <header>
    <cid>2539845</cid>
    <subid>123</subid>
  </header>
  <correction>
    <reason>UQL</reason>
    <tid>65788</tid>
    <oid>o3462</oid>
  </correction>
  <correction>
    <reason>RETRN</reason>
    <tid>386264</tid >
    <oid/>
    <amount>14.99</amount>
  </correction>
</advertiser_correction_data>
```

Item-based Correction

```

<?xml version="1.0"?>
<!DOCTYPE advertiser_correction_data SYSTEM
"http://www.cj.com/downloads/tech/dtd/advertiser_correction_data_1_2.dtd">
<advertiser_correction_data>
<header>
<cid>2539845</cid>
<subid>123</subid>
</header>

<correction>
<reason>UQL</reason>
<tid>65788</tid>
<oid>03462</oid>
<item>
  <item_id>SKU1</item_id>
  <item_qty>-2</item_qty>
</item>
<item>
  <item_id>SKU2</item_id>
  <item_qty>-1</item_qty>
</item>
<id>ID34566777</id>
</correction>

<correction>
<reason>RETRN</reason>
<tid>386264</tid>
<oid/>
<amount>14.99</amount>
</correction>
</advertiser_correction_data>

```

Data Security Configuration

Data Security Overview

Commission Junction supports two optional security methods. Security is an important aspect of data transfer, and is highly recommended.

- **Cleartext Signing:** Form of data signing that applies a digital signature to a file without encrypting data.
- **Data Signing and Encryption:** Method that applies a digital signature with added encryption.

Digital Signatures, which are applied through the process of data signing, ensure that the transferred files are from Commission Junction and that no one can tamper with them. If anyone captures a file and attempts to alter it in any way, this is detected and the file is rejected.

Cleartext Signing leaves the original data untouched and adds a signature at the end of the file. Choose the Data Signing and Encryption method if you require additional security that not only verifies the sender and prevents tampering, but also encrypts your report into a form that is nearly impossible to read without very specific knowledge (a security key).

To enable either of these methods, you must use GPG or PGP software to comply with security key exchange requirements that are specific to your chosen method.

Getting Started

Commission Junction supports the widely accepted OpenPGP security standard (RFC2440). OpenPGP defines formats for encrypted messages, signatures, and certificates for exchanging public keys. The OpenPGP standard includes PGP (version 5.x and later) and GPG.

- PGP, on which OpenPGP is based, stands for Pretty Good Privacy and was originally developed by Phil Zimmermann. Product information can be found at <http://www.pgp.com/>, and additional reference information at <http://www.pgpi.com/>.
- GPG is an open source alternative to PGP and is available at <http://www.gnupg.org>. Because it does not use the patented IDEA algorithm, it can be freely used, modified and distributed under the terms of the GNU General Public License.

Important: If you choose to secure your file, you must use one of these products/versions for your data to be recognized by the Commission Junction system.

Once you have installed the GPG or PGP software, you are ready to use it to generate a security key pair, exchange the applicable keys with Commission Junction, and secure your file.

Security Key Exchange

As stated above, both of the supported security methods require you to perform data signing by adding a digital signature to your file. A public security key enables signature verification when installed on the recipient's system. If anyone captures a file and attempts to alter it in any way, this will be detected and Commission Junction will reject the file.

After installing the GPG or PGP software, you will generate a public key (in ASCII format) and send it to Commission Junction to enable data signing. Commission Junction must receive and install your public key before data signing can occur.

- If you choose the clearsigning method:
Sending your public key to Commission Junction will complete your key exchange.
- If you choose the data signing and encryption method:
You must 1) send your public key to Commission Junction to enable data signing and 2) import our public key to enable encryption.

Clearsigning

If you choose this option, you must clearsign your file in ASCII format so that it can be transferred with the proper signature. Clearsigning is a form of data signing that leaves the original data untouched and adds a signature.

Clearsigned Data File Example

```
-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1
&CID=936
&SUBID=123
391035|
366777|
65788|o3462
386264|
|o434862
406917|
-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.0.1 (GNU/Linux)
Comment: For info see http://www.gnupg.org

iD8DBQE5CL7XhzPiyfRhJxkRApXMAKCbAQtpS/TpSqQCKCnN9yDJ5hU0ywCfXPgU
z2LRx4kei8loLPwCpWBPKI8=
=ru3n
-----END PGP SIGNATURE-----
```

Data Signing and Encryption

Encryption is the transformation of data into a form that is nearly impossible to read without the appropriate knowledge (in this case, Commission Junction's public key). Its purpose is to ensure privacy by keeping information hidden from anyone for whom it is not intended, even those who have access to the encrypted data. If you choose this option, you will clearsign then encrypt your file.

Transferring Your Data File

Commission Junction supports a number of options for transferring data files—Commission Junction FTP, Client FTP, Client HTTP, Client HTTPS and email.

Note: All subscriptions begin in a test mode. Commission Junction works with you to verify successful transfer before enabling live transfer.

Commission Junction FTP

This method allows you to transfer the file to Commission Junction's FTP server, which is enabled by establishing a Commission Junction FTP account. We provide you with the Commission Junction FTP server address, along with a username, password and any further instructions.

Once you successfully log into our server, place your ASCII file in the default root directory. Do not create a new folder or navigate to a different path—this prevents our system from processing your data.

Note: Successful import files are archived for 120 days (2 days for products). Unsuccessful (error) import files are archived for 30 days (3 days for products).

Client FTP

If you choose to place the file on your FTP server for Commission Junction to access, you must:

1. Provide Commission Junction with the following information:
 - FTP Address
 - User
 - Password
 - Directory (if applicable)
 - Port (if applicable)
2. Deliver files to your server with unique filenames (such as a time stamp) to enable accurate processing.
3. Delete the file from your server upon receiving confirmation of a successful import via the results report (described on the next page).

Note: Commission Junction does not support data transfer via FTPS (or other variations of FTP with SSL).

Client HTTP/HTTPS

If you choose to make your file available at a specific URL for Commission Junction to access, you must provide the necessary URL information. The system performs daily checks of the URL and 'pulls' and processes the file if it has changed since the last import (determined by the last modified date of the file as recorded on your server). Your HTTP/HTTPS server must have a stable clock, and the timestamp of the file must reflect the actual time of modification. Please ensure that any failover servers you may have do not interfere with incoming HTTP/HTTPS requests. For information regarding the use of HTTPS and acceptable certificate authorities, refer to Appendix A: HTTPS Use and Acceptable Certificate Authorities.

Email

If you choose this option, simply email your data file to import@datatransfer.cj.com.

You can submit the file in one of two ways:

- as the body of the email
- as a MIME attachment: please limit attachments (files) to one per email

Results Report

Once you transfer your data file, Commission Junction sends an import receipt confirmation email prior to processing. Once a data file processes, you receive a confirmation (or rejection) report. Your results report format and transport method depends on which data format (Name/Value, TAB, PIPE, CSV or XML) and transport method (Email or CJ FTP) you selected during setup. If you choose email as your transport method, you receive an email containing the results report in your selected data format. If you choose CJ FTP as your transport method, you receive an email confirming import, an email confirming your data is available via CJ FTP, and the results report on CJ FTP.

The emailed or CJ FTP-ed results report details information relevant to the file provided, and displays the information in the format you previously selected. If you selected email as your transport method, the results report displays in the Additional Message section of your email. Regardless of the transport method selected (Email or CJ FTP), a completion email sends to the email address(es) specified in the import subscription settings and displays the following information.

- Time of processing.
- Total records processed.
- Total errors.

If you select Email as your transport method, the completion email also includes the following information.

- List of transferred records, which provide the result for each record. Any records that did not process successfully will indicate the reason for the error.

Note: If you select CJ FTP as the transport method, the system delivers the list of transferred records via CJ FTP, in the specified format.

The most common stem of an error are incorrect or missing headers. If you receive an error, correct the problem and resubmit. If you need further assistance, contact Technical Support.

Note: You may view the status of your data transfer by accessing your CJ Account Manager>Account>Services area.

Example 1: Transfer Confirmed, No Errors (Product Catalog File)

Dear Ellena Stiff,
 We have processed your data with the following results:
 Subscription ID: 3869
 Company ID: 1444347
 Filename: gardenbotanika_cj_20050323.txt
 Time of processing: Wed Mar 23 13:33:37 PST 2005
 Total records processed: 381
 Total errors: 0
 Additional message:
 Please make sure you correct any errors and resend the corrected records. If you publish data to your own FTP server make sure to remove the data after successful processing. If you need assistance, please login to your Commission Junction account (<http://www.cj.com/login.jsp>). Click the Contact Us link at the top of the page to visit our educational site CJU Online, to search the help contents, or ask client support a question.
 Regards,
 Client Support
 Commission Junction

Example 2: Transfer Rejected, Contains Some Errors (Product Catalog File)

Dear Aarti Patel,
 We have processed your data with the following results:
 Subscription ID: 3404
 Company ID: 1409652
 Filename: cjun.xml
 Time of processing: Wed Mar 23 13:28:41 PST 2005
 Total records processed: 2480
 Total errors: 2
 Additional message:
 Record#1110 #Free by Gottex: Copacabana tie detail bikini brief|swimsuits, bikinis, tankinis, swimwear, bikini, plus size, fuller figure, intimate apparel, lingerie, sexy lingerie, full figure, plus size, bodies, sleepwear, bra, camisoles|For a cute, girlie look, check out the bikini brief from the Free by Gottex...
 Error: Invalid record, expected 36 values and found 3.
 Record#1111 Copacabana collection. It has a stunning all over floral print, sits low on the hips and has a fun tie detail on the left leg.|FR-F5711894|[http://www.figleaves.com/us/product.asp?product_id=FR-F5711894](http://www.figleaves.com/us/product.asp?product_id=FR-F5711894&src=cjunpu23032005)|http://speedera.figleaves.com/us/images/eng-usa/products/medium/pm_FR-F5711894.jpg|29.00|||USD||Free Shipping and Free Returns!|Women's swimwear|Free by Gottex|||||||Yes|||||||Yes|New||0.00...
 Warning: Unrecognized line.
 Please make sure you correct any errors and resend the corrected records. If you publish data to your own FTP server make sure to remove the data after successful processing. If you need assistance, please login to your Commission Junction account (<http://www.cj.com/login.jsp>). Click the Contact Us link at the top of the page to visit our educational site CJU Online, to search the help contents, or ask client support a question.
 Regards,
 Client Support
 Commission Junction

Example 3: Transfer Rejected, Many Errors (Correction File)

Dear Conrad Svard,
We have processed your data with the following results:
Subscription ID: 4935
Company ID: 1451754
Filename: Hotel Direct CJ.csv
Time of processing: Wed Mar 23 13:21:57 PST 2005
Total records processed: 55
Total errors: 55
Additional message:
#REASON OIError: Invalid Correction Record, unable to parse contents
REASON: DUPO TID: OID: 111726
Result:Could not find a financial transaction from Oid and Advertiser
REASON: DUPO TID: OID: 111954
Result:Could not find a financial transaction from Oid and Advertiser
REASON: DUPO TID: OID: 111969
Result:Could not find a financial transaction from Oid and Advertiser
REASON: DUPO TID: OID: 111975
Result:Could not find a financial transaction from Oid and Advertiser
REASON: DUPO TID: OID: 112068
Result:Could not find a financial transaction from Oid and Advertiser
REASON: DUPO TID: OID: 112073
Result:Could not find a financial transaction from Oid and Advertiser
REASON: DUPO TID: OID: 112080
Result:Could not find a financial transaction from Oid and Advertiser
REASON: DUPO TID: OID: 111617
Result:Could not find a financial transaction from Oid and Advertiser
REASON: DUPO TID: OID: 112098
Result:Could not find a financial transaction from Oid and Advertiser
REASON: DUPO TID: OID: 112110
Result:Could not find a financial transaction from Oid and Advertiser
REASON: DUPO TID : OID: 112114
Result:Could not find a financial transaction from Oid and Advertiser
REASON: DUPO TID: OID: 112121
Result:Could not find a financial transaction from Oid and Advertiser
REASON: DUPO TID: OID: 112135
Result:Could not find a financial transaction from Oid and Advertiser
REASON: DUPO TID: OID: 112173
Result:Could not find a financial transaction from Oid and Advertiser
REASON: DUPO TID: OID: 112187
Result:Could not find a financial transaction from Oid and Advertiser
REASON: DUPO TID: OID: 112203
Result:Could not find a financial transaction from Oid and Advertiser
REASON: DUPO TID: OID: 112206
Result:Could not find a financial transaction from Oid and Advertiser
REASON: DUPO TID: OID: 112210
Result:Could not find a financial transaction from Oid and Advertiser

REASON: DUPO TID: OID: 111916
Result:Could not find a financial transaction from Oid and Advertiser
REASON: DUPO TID: OID: 112212
Result:Could not find a financial transaction from Oid and Advertiser
REASON: DUPO TID: OID: 112216
Result:Could not find a financial transaction from Oid and Advertiser
REASON: DUPO TID: OID: 112234
Result:Could not find a financial transaction from Oid and Advertiser
REASON: DUPO TID: OID: 112236
Result:Could not find a financial transaction from Oid and Advertiser
REASON: DUPO TID: OID: 112239
Result:Could not find a financial transaction from Oid and Advertiser
REASON: DUPO TID: OID: 112278
Result:Could not find a financial transaction from Oid and Advertiser
REASON: DUPO TID: OID: 112298
Result:Could not find a financial transaction from Oid and Advertiser
REASON: DUPO TID: OID: 112197
Result:Could not find a financial transaction from Oid and Advertiser
REASON: DUPO TID: OID: 112362
Result:Could not find a financial transaction from Oid and Advertiser
REASON: DUPO TID: OID: 112367
Result:Could not find a financial transaction from Oid and Advertiser
REASON: DUPO TID: OID: 112373
Result:Could not find a financial transaction from Oid and Advertiser
REASON: DUPO TID: OID: 112385
Result:Could not find a financial transaction from Oid and Advertiser
REASON: DUPO TID: OID: 112388
Result:Could not find a financial transaction from Oid and Advertiser
REASON: DUPO TID: OID: 112252
Result:Could not find a financial transaction from Oid and Advertiser
REASON: DUPO TID: OID: 112405
Result:Could not find a financial transaction from Oid and Advertiser
REASON: DUPO TID: OID: 112407
Result:Could not find a financial transaction from Oid and Advertiser
REASON: DUPO TID: OID: 112409
Result:Could not find a financial transaction from Oid and Advertiser
REASON: DUPO TID: OID: 112415
Result:Could not find a financial transaction from Oid and Advertiser
REASON: DUPO TID: OID: 112379
Result:Could not find a financial transaction from Oid and Advertiser
REASON: DUPO TID: OID: 112446
Result:Could not find a financial transaction from Oid and Advertiser
REASON: DUPO TID: OID: 112459
Result:Could not find a financial transaction from Oid and Advertiser
REASON: DUPO TID: OID: 112463
Result:Could not find a financial transaction from Oid and Advertiser
REASON: DUPO TID: OID: 112444

Result:Could not find a financial transaction from Oid and Advertiser
REASON: DUPO TID: OID: 112464
Result:Could not find a financial transaction from Oid and Advertiser
REASON: DUPO TID: OID: 112469
Result:Could not find a financial transaction from Oid and Advertiser
REASON: DUPO TID: OID: 112470
Result:Could not find a financial transaction from Oid and Advertiser
REASON: DUPO TID: OID: 112477
Result:Could not find a financial transaction from Oid and Advertiser
REASON: DUPO TID: OID: 112484
Result:Could not find a financial transaction from Oid and Advertiser
REASON: DUPO TID: OID: 112491
Result:Could not find a financial transaction from Oid and Advertiser
REASON: DUPO TID: OID: 111625
Result:Could not find a financial transaction from Oid and Advertiser
REASON: DUPO TID: OID: 111680
Result:Could not find a financial transaction from Oid and Advertiser
REASON: DUPO TID: OID: 111612
Result:Could not find a financial transaction from Oid and Advertiser
REASON: DUPO TID: OID: 111613
Result:Could not find a financial transaction from Oid and Advertiser
REASON: DUPO TID: OID: 111624
Result:Could not find a financial transaction from Oid and Advertiser
REASON: DUPO TID: OID: 111631
Result:Could not find a financial transaction from Oid and Advertiser

Please make sure you correct any errors and resend the corrected records. If you publish data to your own FTP server make sure to remove the data after successful processing. If you need assistance, please login to your Commission Junction account (<http://www.cj.com/login.jsp>). Click the Contact Us link at the top of the page to visit our educational site CJU Online, to search the help contents, or ask client support a question.

Regards,
Client Support
Commission Junction

Viewing Subscription Information

Once your subscription is set up, you may view details in the *Account>Services* area of your *CJ Account Manager*.

Appendix A: HTTPS Use and Acceptable Certificate Authorities

Commission Junction supports the use of Secure Sockets Layer (SSL) protocol and HTTPS for data transfer. Secure transfer via HTTPS requires the use of certificates for authentication of the data and parties involved. Certificates are signed by trusted agencies called Certificate Authorities to ensure the validity of the certificates. Commission Junction requires the following for successful transfer via HTTPS.

- The server must present an SSL/X.509 certificate whose Common Name (CN) matches the DNS host name.
- The certificate must be certified by a chain that ultimately is certified by one of the accepted Certificate Authorities.

Refer to the following table for details regarding acceptable Certificate Authorities.

Common Name (CN)	Owner (O)
Equifax Secure eBusiness CA-1	Equifax Secure Inc.
VeriSign Class 1 Public Primary Certification Authority – G3	VeriSign, Inc.
VeriSign Class 2 Public Primary Certification Authority – G2	VeriSign, Inc.
VeriSign Class 3 Public Primary Certification Authority – G3	Verisign, Inc.
Entrust.net Client Certification Authority	Entrust.net
Go Daddy Class 2 Certification Authority	The Go Daddy Group, Inc.
GTE CyberTrust Global Root	GTE Corporation
Entrust.net Secure Server Certification Authority	Entrust.net
VeriSign Class 1 Public Primary Certification Authority	VeriSign, Inc.
Thawte Personal Basic CA	Thawte Consulting
VeriSign Class 1 Public Primary Certification Authority – G2	VeriSign, Inc.
THawte Personal Freemail CA	Thawte Consulting
VeriSign Class 3 Public Primary Certification Authority	VeriSign, Inc.
GTE CyberTrust Root	GTE Corporation
VeriSign Class 2 Public Primary Certification Authority – G3	VeriSign, Inc.
Thawte Server CA	Thawte Consulting cc
Equifax Secure Certificate Authority	Equifax
Thawte Personal Premium CA	Thawte Consulting
Thawte Premium Server CA	Thawte Consulting cc
VeriSign Class 3 Public Primary Certification Authority – G2	VeriSign, Inc.
Entrust.net Certification Authority (2048)	Entrust.net
http://www.valicert.com	ValiCert, Inc.
Baltimore CyberTrust Root	Baltimore
Secure Certification Authority	RSA Data Security, Inc.
GeoTrust Global CA	GeoTrust Inc.
GTE CyberTrust Root 5	GTE Corporation

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Starfield Class 2 Certification Authority	Starfield Technologies, Inc.
GlobalSign Root CA	GlobalSign nv-sa
Equifax Secure Global eBusiness CA-1	Equifax Secure Inc.
Baltimore CyberTrust Code Signing Root	Baltimore
Equifax Secure eBusiness CA-2	Equifax Secure

For more information or assistance with setting up data transfer with Commission Junction, contact Technical Support.