



# **AvaTax for Communications Custom Sort Utility User Manual**

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## Document Revision History

The Revision History log lists the date and description of the most recent revisions or versions of the document.

| Date       | Version | Description                                                                                                                                                                                                                                          |
|------------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 03/02/2016 | 0003    | Avalara branding updates to reflect the transition to the new company and product names have been incorporated into this document. Please see <b>Appendix B – Avalara Product Names</b> for specific changes in product references and descriptions. |
| 04/05/2016 | 0004    | Updates and additions in <b>Section 1.1 AFC License</b> and <b>Section 1.2 AFC SaaS Standard</b> to address use of the Custom Sort Utility.                                                                                                          |
| 04/25/2016 | 0005    | Update to table in <b>Section 2.2 Configuration Fields for Sorting/Reporting</b> . Added descriptions for values TAX_TYPE_DESC, TAX_CAT and TAX_CAT_DESC to table.                                                                                   |
| 05/13/2016 | 0006    | Inserted new <b>Section 1.3 AFC SaaS Pro</b> related to custom reports.                                                                                                                                                                              |
| 06/24/2016 | 0007    | Updated <b>Section 1.1.2 Arguments</b> and <b>Section 1.1.3 Examples</b> with custom sort option details.                                                                                                                                            |
| 02/23/2017 | 0008    | Updated tax category values and descriptions in table of <b>Section 2.2</b> .                                                                                                                                                                        |
| 07/27/2017 | 0009    | Added note related to log file path in <b>Section 1.1.2 Arguments</b> .                                                                                                                                                                              |
| 10/25/2017 | 0010    | Updated Avalara contact information (address and support site).<br>Removed <b>Appendix B – Avalara Product Names</b> .                                                                                                                               |

## Table of Contents

|           |                                                       |          |
|-----------|-------------------------------------------------------|----------|
| <b>1.</b> | <b>Overview .....</b>                                 | <b>1</b> |
| 1.1       | AFC License.....                                      | 1        |
| 1.1.1     | Command Line Usage .....                              | 1        |
| 1.1.2     | Arguments.....                                        | 1        |
| 1.1.3     | Examples .....                                        | 1        |
| 1.1.4     | Output (in working directory).....                    | 2        |
| 1.2       | AFC SaaS Standard .....                               | 2        |
| 1.2.1     | Usage .....                                           | 2        |
| 1.2.2     | AFC SaaS Standard Custom Sort Example .....           | 2        |
| 1.2.3     | Output (in working directory).....                    | 4        |
| 1.3       | AFC SaaS Pro .....                                    | 5        |
| 1.3.1     | Usage .....                                           | 5        |
| <b>2.</b> | <b>Custom Sort Configuration Format/Options .....</b> | <b>5</b> |
| 2.1       | Configuration Options .....                           | 5        |
| 2.2       | Configuration Fields for Sorting/Reporting.....       | 7        |
| <b>3.</b> | <b>Appendix A – Samples.....</b>                      | <b>9</b> |
| 3.1       | Sample Configuration Files .....                      | 9        |
| 3.1.1     | Base Format: srtcomma20l.....                         | 9        |
| 3.1.2     | Base Extended Format: srtcomma20l .....               | 9        |
| 3.1.3     | Base Format: srtcomma20l-p .....                      | 10       |
| 3.1.4     | Extended Format: srtcomma20l-p .....                  | 10       |
| 3.1.5     | Base Format: srtcomma20ld.....                        | 11       |
| 3.1.6     | Base Format: ezlogcust .....                          | 11       |
| 3.1.7     | Base Format: ezlogcustpts.....                        | 11       |
| 3.1.8     | Fully Defined Format: srtcomma20l-p.....              | 12       |
| 3.1.9     | Fully Define Format: ezlogcust.....                   | 12       |

## 1. Overview

The Custom Sort Utility is designed to allow clients to produce taxation reports which are sorted and summarized using client-specified fields and/or options. The utility is restricted to fields available in the AvaTax for Communications (AFC) transaction log, which can be affected by configuration settings in the EZtax.cfg.

This utility uses the AvaTax for Communications (AFC) API library.

### 1.1 AFC License

#### 1.1.1 Command Line Usage

```
customsort -cfg customsort.cfg [-log logfile] [-data datapath] [-work workpath] [-ext extension] [-?]
```

#### 1.1.2 Arguments

- |                      |                                                                                                                                                                                                  |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -cfg customsort.cfg  | : Required. Custom sort configuration to be used.                                                                                                                                                |
| -log logfile*        | : EZTax log file to be processed (DEF: EZTax.log).                                                                                                                                               |
|                      | <i>*The full path for the log file must be specified.</i>                                                                                                                                        |
| -data <path>         | : Data directory; overrides config file value.                                                                                                                                                   |
| -work <path>         | : Working directory; overrides config file value.                                                                                                                                                |
| -ext <ext>           | : Result file extension without '.'; overrides reserved config file extension.                                                                                                                   |
| -summarize <sumfile> | : Log file is summarized into sumfile. On large log files, this option can substantially speed up the sorting process.                                                                           |
| -out <fname>         | : Output base filename; overrides config file. This option can be used when there is a need to set the output files from a script so that different sorts can share the same configuration file. |
| -?                   | : Display usage and exit                                                                                                                                                                         |

#### 1.1.3 Examples

```
customsort -cfg customsort.cfg
```

```
customsort -cfg customsort.cfg -log mylogfile.log
```

```

customsort -cfg customsort.cfg -log mylogfile.log -data path/to/data
customsort -cfg customsort.cfg -log mylogfile.log -work path/to/workingdirectory
customsort -cfg customsort.cfg -log mylogfile.log -ext csv
customsort -cfg customsort.cfg -log mylogfile.log -summarize quicksort.log
customsort -cfg customsort.cfg -log mylogfile.log -out mysort

```

### 1.1.4 Output (in working directory)

|                  |                                                                    |
|------------------|--------------------------------------------------------------------|
| Taxation Reports | - Sorted and summarized taxation reports per configuration options |
| Metrics Report   | - Custom sort processing metrics                                   |
| Status file      | - Processing status and any errors that might have occurred        |

## 1.2 AFC SaaS Standard

### 1.2.1 Usage

The Custom Sort Utility can be called in AFC SaaS Standard to allow clients to produce taxation reports which are sorted and summarized using client-specified fields and/or options based on the transactions contained within the ftp.zip input file. The resulting report is a CSV file that can then be opened and edited within a spreadsheet program such as Microsoft Excel. In order for the custom sort feature to be applied, a configuration file – customsort.cfg – must be either be persisted in your account or embedded in the input zip file (ftp.zip) along with the transaction input file in the Extended AFC SaaS Standard format.

To make the Custom Sort Config file a persisted file, please contact [communicationsupport@avalara.com](mailto:communicationsupport@avalara.com) for further assistance. Persisting the file is the preferred method of generating the Custom Sort report.

To embed the Custom Sort Config file, place the customsort.cfg file into the ftp.zip file along with an Extended Format input file.

### 1.2.2 AFC SaaS Standard Custom Sort Example

#### 1.2.2.1 Sample customsort.cfg file

```

////////////////////////////////////
////  ext_srtcomma201.cfg  ////
OUTPUT_FILENAME_FORMAT: EZtax_{%y%m%d}

```

BASE: srtcomma201  
 FIELD: P\_CODE  
 FIELD: CUST\_NO  
 FIELD: INV\_NO  
 OPTION: NBA\_FILE  
 OPTION: NCA\_FILE  
 OPTION: NO\_DELETE\_LOG  
 OPTION: HEADER  
 CALCULATED\_VALUE\_PRECISION: 6  
 DEFAULT\_EXT: csv  
 DELIMITER: ','

### 1.2.2.2 Sample input file with the base name KML150117AA.csv

| Request Type | Date     | BillTo Country ISO | BillTo State | BillTo County | BillTo Locality | BillTo ZipCode | Charge | Transaction Type | Service Type | Customer Number | Invoice Number |
|--------------|----------|--------------------|--------------|---------------|-----------------|----------------|--------|------------------|--------------|-----------------|----------------|
| CalcTaxes    | 20160315 | USA                | FL           | Brevard       | Cocoa Beach     | 32931          | 50     | 19               | 6            | Customer 1      | 987654         |
| CalcTaxes    | 20160315 | USA                | FL           | Brevard       | Cocoa Beach     | 32931          | 15     | 19               | 50           | Customer 1      | 123456         |
| CalcTaxes    | 20160315 | USA                | CA           | San Francisco | San Francisco   | 94102          | 50     | 13               | 6            | Customer 2      | 4567890        |
| CalcTaxes    | 20160315 | USA                | CA           | San Francisco | San Francisco   | 94102          | 15     | 13               | 50           | Customer 2      | 4567890        |
| CalcTaxes    | 20160315 | USA                | NY           | New York      | New York        | 10001          | 50     | 16               | 6            | Customer 3      | 1234           |
| CalcTaxes    | 20160315 | USA                | NY           | New York      | New York        | 10001          | 25     | 16               | 36           | Customer 3      | 5678           |

### 1.2.2.3 Output Files

#### EZtax\_160405.rpt

##### Custom Sort Processing Metrics

Start Time : Tue Apr 05 10:53:57 2016  
 End Time : Tue Apr 05 10:53:57 2016

##### Taxes Input Metrics

Records: 22 File: C:\BILLSOFTONLINE\KML\KML\EZTax\EZTax.log

##### Taxes Output Metrics

Summarized Records : 19 File: EZtax\_160405\_ssf.csv  
 Non-billable Records : 3 File: EZtax\_160405\_nba.csv  
 Non-compliance Records : 0 File: EZtax\_160405\_nca.csv  
 Total Summarized Records : 22

End of Report

#### EZtax\_160405\_nca.csv

| Country | State | County | Locality | TaxType | TaxLvl | TaxRate | TaxAmount | SaleAmt | ExemptAmt | AdjustmentAmt | NetTaxable | Minutes | Lines | PCode | CustNo | InvoiceNo |
|---------|-------|--------|----------|---------|--------|---------|-----------|---------|-----------|---------------|------------|---------|-------|-------|--------|-----------|
|         |       |        |          |         |        |         |           |         |           |               |            |         |       |       |        |           |
|         |       |        |          |         |        |         |           |         |           |               |            |         |       |       |        |           |

### EZtax\_160405\_nba.csv

| Country | State | County | Locality | TaxType | TaxLvl | TaxRate | TaxAmount | SaleAmt | ExemptAmt | AdjustmentAmt | NetTaxable | Minutes | Lines | PCode | CustNo     | InvoiceNo |
|---------|-------|--------|----------|---------|--------|---------|-----------|---------|-----------|---------------|------------|---------|-------|-------|------------|-----------|
| USA     |       |        |          | 232     | 0      | 0.01635 | 0.303293  | 50      | 31.45     | 0             | 18.55      | 0       | 0     | 0     | Customer 2 | 4567890   |
| USA     |       |        |          | 235     | 0      | 0.01635 | 0.159167  | 15      | 5.265     | 0             | 9.735      | 0       | 0     | 0     | Customer 1 | 123456    |
| USA     |       |        |          | 235     | 0      | 0.01635 | 0.530558  | 50      | 17.55     | 0             | 32.45      | 0       | 0     | 0     | Customer 1 | 987654    |

### EZtax\_160405\_ssf.csv

| Country | State | County   | Locality    | TaxType | TaxLvl | TaxRate  | TaxAmount | SaleAmt   | ExemptAmt | AdjustmentAmt | NetTaxable | Minutes | Lines | PCode   | CustNo     | InvoiceNo |
|---------|-------|----------|-------------|---------|--------|----------|-----------|-----------|-----------|---------------|------------|---------|-------|---------|------------|-----------|
| USA     |       |          |             | 55      | 0      | 0.182    | 3.3761    | 50        | 31.45     | 0             | 18.55      | 0       | 0     | 0       | Customer 2 | 4567890   |
| USA     |       |          |             | 72      | 0      | 0.08     | 0.08      | 50        | 0         | 0             | 50         | 0       | 0     | 0       | Customer 3 | 1234      |
| USA     |       |          |             | 162     | 0      | 0.182    | 1.77177   | 15        | 5.265     | 0             | 9.735      | 0       | 0     | 0       | Customer 1 | 123456    |
| USA     |       |          |             | 162     | 0      | 0.182    | 5.9059    | 50        | 17.55     | 0             | 32.45      | 0       | 0     | 0       | Customer 1 | 987654    |
| USA     |       |          |             | 170     | 0      | 0.014167 | 0.014167  | 50        | 0         | 0             | 50         | 0       | 0     | 0       | Customer 2 | 4567890   |
| USA     |       |          |             | 226     | 0      | 0.00331  | 0.032223  | 15        | 5.265     | 0             | 9.735      | 0       | 0     | 0       | Customer 1 | 123456    |
| USA     |       |          |             | 226     | 0      | 0.00331  | 0.10741   | 50        | 17.55     | 0             | 32.45      | 0       | 0     | 0       | Customer 1 | 987654    |
| USA     | FL    | BREVARD  |             | 64      | 1      | 0.0492   | 0         | 15        | 15        | 0             | 0          | 0       | 0     | 539600  | Customer 1 | 123456    |
| USA     | FL    | BREVARD  |             | 64      | 1      | 0.0492   | 0         | 50        | 50        | 0             | 0          | 0       | 0     | 539600  | Customer 1 | 987654    |
| USA     | FL    | BREVARD  | COCOA BEACH | 14      | 1      | 0.0237   | 0.398255  | 16.803993 | 0         | 0             | 16.803993  | 0       | 0     | 540000  | Customer 1 | 123456    |
| USA     | FL    | BREVARD  | COCOA BEACH | 14      | 1      | 0.0237   | 1.327515  | 56.013309 | 0         | 0             | 56.013309  | 0       | 0     | 540000  | Customer 1 | 987654    |
| USA     | FL    | BREVARD  | COCOA BEACH | 64      | 3      | 0.0552   | 0         | 15        | 15        | 0             | 0          | 0       | 0     | 540000  | Customer 1 | 123456    |
| USA     | FL    | BREVARD  | COCOA BEACH | 64      | 3      | 0.0552   | 0         | 50        | 50        | 0             | 0          | 0       | 0     | 540000  | Customer 1 | 987654    |
| USA     | FL    | BREVARD  | COCOA BEACH | 160     | 1      | 0.0015   | 0.025206  | 16.803993 | 0         | 0             | 16.803993  | 0       | 0     | 540000  | Customer 1 | 123456    |
| USA     | FL    | BREVARD  | COCOA BEACH | 160     | 1      | 0.0015   | 0.08402   | 56.013309 | 0         | 0             | 56.013309  | 0       | 0     | 540000  | Customer 1 | 987654    |
| USA     | NY    |          |             | 180     | 1      | 0.000975 | 0.048828  | 50.08     | 0         | 0             | 50.08      | 0       | 0     | 2502500 | Customer 3 | 1234      |
| USA     | NY    |          |             | 180     | 1      | 0.000975 | 0.024375  | 25        | 0         | 0             | 25         | 0       | 0     | 2502500 | Customer 3 | 5678      |
| USA     | NY    | NEW YORK | NEW YORK    | 73      | 3      | 0.049025 | 2.58154   | 52.657618 | 0         | 0             | 52.657618  | 0       | 0     | 2604100 | Customer 3 | 1234      |
| USA     | NY    | NEW YORK | NEW YORK    | 73      | 3      | 0.049025 | 1.288809  | 26.288809 | 0         | 0             | 26.288809  | 0       | 0     | 2604100 | Customer 3 | 5678      |

## 1.2.3 Output (in working directory)

### Taxation Reports

- Compliance, non-compliance (as applicable) and non-billable (as applicable) custom sort reports located in the Report zip file. **Examples:** {output\_filename\_format}\_ssf.csv, {output\_filename\_format}\_nca.csv, {output\_filename\_format}\_nba.csv

**Note:** {output\_filename\_format} is defined in customsorth.cfg.

### Metrics Reports

- Custom Sort report metrics located in the Report zip file.  
**Example:** {output\_filename\_format}.rpt

**Note:** {output\_filename\_format} is defined in customsorth.cfg.



## 1.3 AFC SaaS Pro

### 1.3.1 Usage

AFC SaaS Pro provides the ability to dynamically generate a custom report containing the transactional data available in the database for a specified timeframe. The general process is as follows:

1. Invoke the **CreateReport** API in the web service. The **ReportOptions** parameter specifies which data to include in the report.
2. The report is processed in the background. The resulting output file is placed in the designated client FTP folder where it can be downloaded. This process takes anywhere from 30-90 minutes to complete.
3. Once the report has been generated and is ready for download, an email notification is sent to the email address(s) included in the **ReportOptions**.

**Note:** Prior to the first time executing the CreateReport API call, please notify [communicationsupport@avalara.com](mailto:communicationsupport@avalara.com). If not already established, an FTP account needs to be created and the FTP credentials provided.

Please refer to **TM\_00116\_AFC SaaS Pro Telecom Developer Manual** and **TM\_00117\_AFC SaaS Pro SAU Developer Manual** for further information.

## 2. Custom Sort Configuration Format/Options

### General Rules / Notes

- Configuration file should be in standard text file format.
- You can use the slash-slash (“//”) string to indicate a comment
- You must define, at a minimum, either the base format and/or fields to be reported.
- If you specify the tax data directory, you do not need a filelocs.txt.
- Fields will be sorted in the order they are listed in the configuration file.

### 2.1 Configuration Options

| Token                  | Description                                                                                                                                                        |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| OUTPUT_FILENAME_FORMAT | Format to be used for output / reports<br>Values: Valid filename or supported pattern. Default is EZTax.<br><br>EXAMPLE:<br>OUTPUT_FILENAME_FORMAT: EZtax_{%y%m%d} |

| Token                      | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |      |         |    |                          |    |    |                            |    |    |                            |    |    |                           |     |    |                                   |    |    |                |    |    |                      |    |    |                |    |    |                               |    |    |      |      |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------|---------|----|--------------------------|----|----|----------------------------|----|----|----------------------------|----|----|---------------------------|-----|----|-----------------------------------|----|----|----------------|----|----|----------------------|----|----|----------------|----|----|-------------------------------|----|----|------|------|
|                            | <table><tr><th>Pattern</th><th>Desc</th><th>Example</th></tr><tr><td>%d</td><td>Day of the month (01-31)</td><td>19</td></tr><tr><td>%H</td><td>Hour in 24h format (00-23)</td><td>14</td></tr><tr><td>%I</td><td>Hour in 12h format (01-12)</td><td>05</td></tr><tr><td>%j</td><td>Day of the year (001-366)</td><td>231</td></tr><tr><td>%m</td><td>Month as a decimal number (01-12)</td><td>08</td></tr><tr><td>%M</td><td>Minute (00-59)</td><td>55</td></tr><tr><td>%p</td><td>AM or PM designation</td><td>PM</td></tr><tr><td>%S</td><td>Second (00-61)</td><td>02</td></tr><tr><td>%y</td><td>Year, last two digits (00-99)</td><td>01</td></tr><tr><td>%Y</td><td>Year</td><td>2012</td></tr></table> | Pattern | Desc | Example | %d | Day of the month (01-31) | 19 | %H | Hour in 24h format (00-23) | 14 | %I | Hour in 12h format (01-12) | 05 | %j | Day of the year (001-366) | 231 | %m | Month as a decimal number (01-12) | 08 | %M | Minute (00-59) | 55 | %p | AM or PM designation | PM | %S | Second (00-61) | 02 | %y | Year, last two digits (00-99) | 01 | %Y | Year | 2012 |
| Pattern                    | Desc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Example |      |         |    |                          |    |    |                            |    |    |                            |    |    |                           |     |    |                                   |    |    |                |    |    |                      |    |    |                |    |    |                               |    |    |      |      |
| %d                         | Day of the month (01-31)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 19      |      |         |    |                          |    |    |                            |    |    |                            |    |    |                           |     |    |                                   |    |    |                |    |    |                      |    |    |                |    |    |                               |    |    |      |      |
| %H                         | Hour in 24h format (00-23)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 14      |      |         |    |                          |    |    |                            |    |    |                            |    |    |                           |     |    |                                   |    |    |                |    |    |                      |    |    |                |    |    |                               |    |    |      |      |
| %I                         | Hour in 12h format (01-12)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 05      |      |         |    |                          |    |    |                            |    |    |                            |    |    |                           |     |    |                                   |    |    |                |    |    |                      |    |    |                |    |    |                               |    |    |      |      |
| %j                         | Day of the year (001-366)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 231     |      |         |    |                          |    |    |                            |    |    |                            |    |    |                           |     |    |                                   |    |    |                |    |    |                      |    |    |                |    |    |                               |    |    |      |      |
| %m                         | Month as a decimal number (01-12)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 08      |      |         |    |                          |    |    |                            |    |    |                            |    |    |                           |     |    |                                   |    |    |                |    |    |                      |    |    |                |    |    |                               |    |    |      |      |
| %M                         | Minute (00-59)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 55      |      |         |    |                          |    |    |                            |    |    |                            |    |    |                           |     |    |                                   |    |    |                |    |    |                      |    |    |                |    |    |                               |    |    |      |      |
| %p                         | AM or PM designation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | PM      |      |         |    |                          |    |    |                            |    |    |                            |    |    |                           |     |    |                                   |    |    |                |    |    |                      |    |    |                |    |    |                               |    |    |      |      |
| %S                         | Second (00-61)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 02      |      |         |    |                          |    |    |                            |    |    |                            |    |    |                           |     |    |                                   |    |    |                |    |    |                      |    |    |                |    |    |                               |    |    |      |      |
| %y                         | Year, last two digits (00-99)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 01      |      |         |    |                          |    |    |                            |    |    |                            |    |    |                           |     |    |                                   |    |    |                |    |    |                      |    |    |                |    |    |                               |    |    |      |      |
| %Y                         | Year                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2012    |      |         |    |                          |    |    |                            |    |    |                            |    |    |                           |     |    |                                   |    |    |                |    |    |                      |    |    |                |    |    |                               |    |    |      |      |
| BASE                       | <p>The base format to be used.<br/>Values (choose 1): Default value in <b>BOLD</b>.</p> <p><b>NONE</b><br/>SRTCOMMA20L<br/>SRTCOMMA20L-P<br/>SRTCOMMA20LD<br/>EZLOGCUST<br/>EZLOGCUSTPTS</p> <p>EXAMPLE:<br/>BASE: SRTCOMMA20L</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |      |         |    |                          |    |    |                            |    |    |                            |    |    |                           |     |    |                                   |    |    |                |    |    |                      |    |    |                |    |    |                               |    |    |      |      |
| OPTION                     | <p>User supplied option.<br/>Values (choose 1 per line): Default values in <b>BOLD</b>.</p> <p><b>NBA_FILE</b>   DISCARD_NBA_RECS   INCLUDE_NBA_RECS<br/><b>NCA_FILE</b>   DISCARD_NCA_RECS   INCLUDE_NCA_RECS<br/><b>NO_DELETE_LOG</b>   DELETE_LOG<br/>NO_HEADER   <b>HEADER</b></p> <p>EXAMPLE:<br/>OPTION: NBA_FILE<br/>OPTION: NCA_FILE<br/>OPTION: NO_DELETE_LOG<br/>OPTION: HEADER</p> <p><b>Note:</b> Please be aware that <b>NO_DELETE_LOG</b>   DELETE_LOG only applies to AFC License clients. AFC SaaS Standard clients must set this option to NO_DELETE_LOG<sup>3</sup>.</p>                                                                                                                      |         |      |         |    |                          |    |    |                            |    |    |                            |    |    |                           |     |    |                                   |    |    |                |    |    |                      |    |    |                |    |    |                               |    |    |      |      |
| ALGORITHM                  | <p>Algorithm for calculating net taxable sale amount. .<br/>Values (choose 1): Default value in <b>BOLD</b>.</p> <p><b>SRTCOMMA20L</b><br/>SRTCOMMA20LD<br/>ALLOW_NEG_NET</p> <p>EXAMPLE:<br/>ALGORITHM: SRTCOMMA20L</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |      |         |    |                          |    |    |                            |    |    |                            |    |    |                           |     |    |                                   |    |    |                |    |    |                      |    |    |                |    |    |                               |    |    |      |      |
| CALCULATED_VALUE_PRECISION | <p>Precision to be used in reports for calculated floating point.<br/>Values: 0 – 6 (Default is 6)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |         |      |         |    |                          |    |    |                            |    |    |                            |    |    |                           |     |    |                                   |    |    |                |    |    |                      |    |    |                |    |    |                               |    |    |      |      |

| Token       | Description                                                                                                                                                                                                                                                                                                                          |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             | EXAMPLE:<br>CALCULATED_VALUE_PRECISION: 2                                                                                                                                                                                                                                                                                            |
| DEFAULT_EXT | Precision to be used in reports for calculated floating point.<br>Values: valid file alpha numeric extension. Default is ssf.<br><br>EXAMPLE:<br>DEFAULT_EXT: ssf<br><br><b>Note:</b> Please be aware that this default value only applies to AFC License clients. AFC SaaS Standard clients must use CSV file format <sup>3</sup> . |
| DATA_DIR    | Directory specify where the EZtax data resides.<br>If this value is not set, then the file <b>filelocs.txt</b> must exist.<br>VALUES: valid directory specification. There is no default.<br><br>EXAMPLE (windows):<br>DATA_DIR: C:\BillSoft\EZTax\Data<br><br>EXAMPLE (unix/linux):<br>DATA_DIR: /home/EZtax/install/db             |
| WORKING_DIR | Working directory for custom sort.<br>VALUES: valid directory specification. There is no default.<br><br>EXAMPLE (windows):<br>WORKING_DIR: E:\BillingApp\Working<br><br>EXAMPLE (unix/linux):<br>DATA_DIR: /home/BillingApp/Working                                                                                                 |

## 2.2 Configuration Fields for Sorting/Reporting

| Token          | Description                                                                                                                                           |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| FIELD or NORPT | Usage of FIELD will be used both in the sort and the report output.<br>Specifying NORPT will use the field in the sort be exclude it from the report. |

| Values                  | Description                                                            |
|-------------------------|------------------------------------------------------------------------|
| P_CODE                  | Jurisdiction code used by EZtax (numeric)                              |
| ADDRESS                 | Country, State, County, Locality (alpha). Sort will be on PCode value. |
| TRANS_TYPE <sup>1</sup> | Transaction type (numeric)                                             |
| SRV_TYPE <sup>1</sup>   | Service Type (numeric)                                                 |
| TAX_TYPE                | Tax Type (numeric)                                                     |
| TAX_TYPE_DESC           | Tax Type Description (alpha). Sort will be on numeric value.           |
| TAX_CATEGORY            | Tax Category (numeric)                                                 |
| TAX_CATEGORY_DESC       | Tax Category Description (alpha). Sort will be on numeric value.       |
| TAX_LEVEL               | Tax Level (numeric)                                                    |

| Values                          | Description                                                          |
|---------------------------------|----------------------------------------------------------------------|
| TAX_LEVEL_DESC                  | Tax Level Description (alpha). Sort will be on numeric value.        |
| TAX                             | Tax Rate (numeric)                                                   |
| TAX_AMOUNT                      | Tax Amount (numeric)                                                 |
| SALE_AMT                        | Sale Amount (numeric)                                                |
| EXEMPT_SALE_AMT                 | Exempt Sale Amount (numeric)                                         |
| REFUND_UNCOLLECT                | Adjustment (numeric)                                                 |
| NET_TAXABLE                     | Net Taxable Amount (numeric)                                         |
| MINUTES                         | Minutes (numeric)                                                    |
| INV_NO                          | Invoice Number (numeric)                                             |
| SRV_LVL_NO                      | Service Level Number (numeric)                                       |
| OPTIONAL                        | Optional Field (numeric)                                             |
| LINES                           | Lines (numeric)                                                      |
| LOCATIONS                       | Locations (numeric)                                                  |
| CALC_TYPE                       | Calculation Type (numeric)                                           |
| CALC_TYPE_DESC                  | Calculation Type Description (alpha). Sort will be on numeric value. |
| BILLABLE                        | Tax is Billable Flag (numeric: 1=True, 0=False)                      |
| COMPLIANCE                      | Whether tax should be filed or retained (numeric: 1=True, 0=False)   |
| CUST_NO                         | Customer Number (alpha – max 20 bytes)                               |
| ADJ_TYPE                        | Adjustment Type (numeric)                                            |
| ADJ_TYPE_DESC                   | Adjustment Type Description (alpha). Sort will be on numeric value.  |
| EXEMPT_TYPE                     | Exemption Type (numeric)                                             |
| EXEMPT_TYPE_DESC                | Exemption Type Description (alpha). Sort will be on numeric value.   |
| SURCHARGE_FLAG                  | Surcharge Flag (numeric: 1=True, 0=False)                            |
| LOG_COUNTER                     | Log Counter (numeric)                                                |
| OPT_ALPHA_1 <sup>2</sup>        | Optional Field (alpha)                                               |
| COMPANY_IDENTIFIER <sup>2</sup> | Company Identifier (alpha)                                           |
| OPT_4 <sup>2</sup>              | Optional 4 (numeric)                                                 |
| OPT_5 <sup>2</sup>              | Optional 5 (numeric)                                                 |
| OPT_6 <sup>2</sup>              | Optional 6 (numeric)                                                 |
| OPT_7 <sup>2</sup>              | Optional 7 (numeric)                                                 |
| OPT_8 <sup>2</sup>              | Optional 8 (numeric)                                                 |
| OPT_9 <sup>2</sup>              | Optional 9 (numeric)                                                 |
| OPT_10 <sup>2</sup>             | Optional 10 (numeric)                                                |

<sup>1</sup> Only can be used if configuration option [logtransserv=true] is set. AFC SaaS Standard clients must contact [communicationsupport@avalara.com](mailto:communicationsupport@avalara.com) for assistance with configuration options.

<sup>2</sup> Only can be used if configuration option [loglength=long] is set. AFC SaaS Standard clients must contact [communicationsupport@avalara.com](mailto:communicationsupport@avalara.com) for assistance with configuration options.

<sup>3</sup> AFC SaaS Standard clients with a persisted customsort.cfg file must contact [communicationsupport@avalara.com](mailto:communicationsupport@avalara.com) for assistance with configuration options.

## 3. Appendix A – Samples

For further information on the base format samples provided within this section, please reference the documents identified in the table below.

| Base Format  | Document Name             |
|--------------|---------------------------|
| srtcomma20l  | TM_00523_srtcomma20l.pdf  |
| srtcomma20ld | TM_00524_srtcomma20ld.pdf |
| ezlogcust    | TM_00513_ezlogcust.pdf    |
| ezlogcustpts | TM_00515_ezlogcustpts.pdf |

**Note:** These additional documents are located in the monthly distribution package.

### 3.1 Sample Configuration Files

#### 3.1.1 Base Format: srtcomma20l

Example that will produce ssf/nba/nca in the same format as srtcomma20l utility.

```
////////////////////////////////////  
//// base_srtcomma20l.cfg ////  
OUTPUT_FILENAME_FORMAT: EZtax_{%y%m%d}  
BASE: srtcomma20l  
OPTION: NBA_FILE  
OPTION: NCA_FILE  
OPTION: NO_DELETE_LOG  
OPTION: NO_HEADER  
CALCULATED_VALUE_PRECISION: 6  
DEFAULT_EXT: ssf  
DELIMITER: ','  
DATA_DIR: C:\BillSoft\EZTax\Data  
WORKING_DIR: E:\Logs\customsort
```

#### 3.1.2 Base Extended Format: srtcomma20l

Example that will produce ssf/nba/nca similar to srtcomma20l, but with the jurisdiction Address, Company Identifier and Invoice Number added to the report, and a column header row added. Additional, all calculated values will be rounded to 2 decimal places.

```
////////////////////////////////////  
//// ext_srtcomma20l.cfg ////  
OUTPUT_FILENAME_FORMAT: EZtax_{%y%m%d}  
BASE: srtcomma20l  
FIELD: ADDRESS
```

```

FIELD: COMPANY_IDENTIFIER
FIELD: INV_NO
OPTION: NBA_FILE
OPTION: NCA_FILE
OPTION: NO_DELETE_LOG
OPTION: HEADER
CALCULATED_VALUE_PRECISION: 2
DEFAULT_EXT: ssf
DELIMITER: ','
DATA_DIR: C:\BillSoft\EZTax\Data
WORKING_DIR: E:\Logs\customsort

```

### 3.1.3 Base Format: srtcomma20l-p

Example that will produce ssf/nba/nca in the same format as srtcomma20l with the -p cmd line option.

```

////////////////////////////////////
//// base_srtcomma20l_p.cfg ////
OUTPUT_FILENAME_FORMAT: EZtax_{%y%m%d}
BASE: srtcomma20l-p
OPTION: NBA_FILE
OPTION: NCA_FILE
OPTION: NO_DELETE_LOG
OPTION: NO_HEADER
CALCULATED_VALUE_PRECISION: 6
DEFAULT_EXT: ssf
DELIMITER: ','
DATA_DIR: C:\BillSoft\EZTax\Data
WORKING_DIR: E:\Logs\customsort

```

### 3.1.4 Extended Format: srtcomma20l-p

Example that will produce ssf/nba/nca similar to srtcomma20l with the -p cmd line option, but with Pcode, Company Identifier and Invoice Number added to the report, and a column header row added. Additional, all calculated values will be rounded to 2 decimal places.

```

////////////////////////////////////
//// ext_srtcomma20l_p.cfg ////
OUTPUT_FILENAME_FORMAT: EZtax_{%y%m%d}
BASE: srtcomma20l
FIELD: P_CODE
FIELD: COMPANY_IDENTIFIER
FIELD: INV_NO
OPTION: NBA_FILE
OPTION: NCA_FILE
OPTION: NO_DELETE_LOG
OPTION: HEADER
CALCULATED_VALUE_PRECISION: 2
DEFAULT_EXT: ssf
DELIMITER: ','
DATA_DIR: C:\BillSoft\EZTax\Data
WORKING_DIR: E:\Logs\customsort

```

### 3.1.5 Base Format: srtcomma20ld

Example that will produce ssf/nba/nca in the same format as the srtcomma20ld utility.

```
////////////////////////////////////  
OUTPUT_FILENAME_FORMAT: EZtax_{%y%m%d}  
BASE: srtcomma20ld  
OPTION: NBA_FILE  
OPTION: NCA_FILE  
OPTION: NO_DELETE_LOG  
OPTION: NO_HEADER  
CALCULATED_VALUE_PRECISION: 6  
DEFAULT_EXT: ssf  
DELIMITER: ','  
DATA_DIR: C:\BillSoft\EZTax\Data  
WORKING_DIR: E:\Logs\customsort
```

### 3.1.6 Base Format: ezlogcust

Example that will produce reports in the same format as the ezlogcust utility.

```
////////////////////////////////////  
OUTPUT_FILENAME_FORMAT: EZtax_{%y%m%d}  
BASE: ezlogcust  
OPTION: NBA_FILE  
OPTION: NCA_FILE  
OPTION: NO_DELETE_LOG  
OPTION: NO_HEADER  
CALCULATED_VALUE_PRECISION: 6  
DEFAULT_EXT: rpt  
DELIMITER: ','  
DATA_DIR: C:\BillSoft\EZTax\Data  
WORKING_DIR: E:\Logs\customsort
```

### 3.1.7 Base Format: ezlogcustpts

Example that will produce reports in the same format as the ezlogcustpts utility.

```
////////////////////////////////////  
OUTPUT_FILENAME_FORMAT: EZtax_{%y%m%d}  
BASE: ezlogcustpts  
OPTION: NBA_FILE  
OPTION: NCA_FILE  
OPTION: NO_DELETE_LOG  
OPTION: NO_HEADER  
CALCULATED_VALUE_PRECISION: 6  
DEFAULT_EXT: rpt  
DELIMITER: ','  
DATA_DIR: C:\BillSoft\EZTax\Data  
WORKING_DIR: E:\Logs\customsort
```

### 3.1.8 Fully Defined Format: srtcomma20l-p

Example of a fully defined configuration file that will produce reports in the format of srtcomma20l with the -p cmd line option. Similar to srtcomma20l, this sample uses filelocs.txt and deletes the log when complete.

```
////////////////////////////////////  
//// srtcomma20l_p.cfg ////  
OUTPUT_FILENAME_FORMAT: EZtax_{%y%m%d}  
BASE: none  
FIELD: ADDRESS  
FIELD: TAX_TYPE  
FIELD: TAX_LEVEL  
FIELD: TAX  
FIELD: TAX_AMOUNT  
FIELD: SALE_AMT  
FIELD: EXEMPT_SALE_AMT  
FIELD: REFUND_UNCOLLECT  
FIELD: NET_TAXABLE  
FIELD: MINUTES  
FIELD: LINES  
NORPT: BILLABLE  
OPTION: NBA_FILE  
OPTION: NCA_FILE  
OPTION: DELETE_LOG  
OPTION: NO_HEADER  
CALCULATED_VALUE_PRECISION: 6  
DEFAULT_EXT: ssf  
DELIMITER: ','
```

### 3.1.9 Fully Define Format: ezlogcust

Example of a fully defined configuration file that will produce reports in the format of ezlogcust. Similar to ezlogcust, this sample uses filelocs.txt and deletes the log when complete.

Note that CUST\_NO leads off the list as a NORPT and appears again at the end of the list as a FIELD. This is to mimic the ezlogcust functionality that used the customer number as the first item in the sort, but output it as the last column in the report.

```
////////////////////////////////////  
//// ezlogcust.cfg ////  
OUTPUT_FILENAME_FORMAT: EZtax_{%y%m%d}  
BASE: none  
NORPT: CUST_NO  
FIELD: ADDRESS  
FIELD: TAX_TYPE  
FIELD: TAX_LEVEL  
FIELD: TAX  
FIELD: CALC_TYPE_DESC  
FIELD: TAX_AMOUNT  
FIELD: SALE_AMT  
FIELD: EXEMPT_SALE_AMT  
FIELD: REFUND_UNCOLLECT
```



FIELD: NET\_TAXABLE  
FIELD: MINUTES  
FIELD: LINES  
FIELD: LOCATIONS  
NORPT: BILLABLE  
FIELD: CUST\_NO  
OPTION: NBA\_FILE  
OPTION: NCA\_FILE  
OPTION: NO\_DELETE\_LOG  
OPTION: NO\_HEADER  
CALCULATED\_VALUE\_PRECISION: 6  
DEFAULT\_EXT: rpt  
DELIMITER: ','