

AvaTax for Communications Sales and Use User Manual

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1. Introduction

1.1 Installation

Refer to the **AvaTax for Communications (AFC) Installation Manual** for complete instructions regarding the installation of AFC on your specific platform.

1.2 Getting Started

There are several AFC integration methods available, each allowing for its use based on the client's needs.

- AFC SaaS Standard: This method is provided for lower transaction-count customers, allowing for the use of AFC to obtain tax calculations without having to maintain the program on their systems.
- On-Site Options:
 - AFC's API interface: provides the user complete control over access to tax calculations and the data returned, along with the flexibility supported by the report utilities.
- AFC SaaS Pro: AFC SaaS Pro is an XML web service used to calculate taxes. Applications send a
 single transaction to the AFC SaaS web service over the Internet. The taxes are calculated and
 immediately returned to the client application. Users have the capability of sending and receiving
 transactions 24 hours a day, 7 days a week. This service is ideal for adding the ability to tax
 purchases made from online stores and AFC SaaS Pro customers are provided with reports for tax
 compliance filing.

1.3 The AFC Manual

The AFC Manual has been configured to provide an easy and logical progression for learning AFC and its features, as well as a quick reference (fully linked on the electronic version of the manual). From the initial step of mapping to the final creation of reports based on the processed information, the conceptual simplicity of AFC is fully explained.

1.3.1 Mapping

Prior to performing tax calculations, client transactions and services must be matched, or "mapped," to the Valid Transaction and Service Pairings defined in AFC. Refer to Section 2 Mapping for the full explanation of how this is accomplished.

1.3.2 Transactions

Once the transactions and services have been mapped, transaction records can be passed to AFC. Section 3 Transactions explains what AFC expects for each part (or field) contained in a transaction record and provides the definitions and reasons for selecting one of the valid options to use.

1.3.3 Tax Calculations

The AFC Engine accepts the transaction record(s) and performs the tax calculations based upon the information within the record.

1.3.4 Utilities

Once the taxation has been performed, Utilities can be used to provide the tax information in selected formats that meet specific requirements and perform file management functions. The many options available are detailed in the Utilities section of this document.

1.3.5 The Advantage of Using Functions

Section 7 provides specific details of the expanded capabilities provided to users that integrate AFC to the billing system using functions. Refer to the figure shown below. The billing system passes information to AFC, as calls are being rated for billing. AFC calculates all required taxes and returns the tax information to the billing system per transaction. In addition, AFC stores all tax data generated in its databases and provides reports that facilitate tax filing and provide insight to the rating, billing and taxing processes.

Customer Billing System CUSTOMER RATING TRANSACTION RECORDS BILLING DATA ENTRY CUSTOMER RECORDS CLIENT BILLS ACCOUNTING SYSTEM RECORDS CUSTOMER BILLING SYSTEM Jurisdiction TRANSACTIONS Long Distance Service Charges Jurisdiction Information Wireless Service Charges Information Debit Card Service Charges and Codes Address Information Jurisdiction Codes Calling Card Service Charges Permanent Codes Internet Service Charges Refunds Local Service Charges Adjustments Paging Service Charges Uncollectables Address Information FAX Service Charges Tax Overrides Zip Code Information Jurisdiction Codes Voice Mail Service Charges NPANXX Information Exemptions Permanent Codes Product Sales Charges Returns Returns Accepts Accepts Returns Accepts Returns Accepts EZTax API Engine Current Tax Information EZTax EZTax Tax Database Log Data Sustomer and Tax Log Data Compliance Utilities Filing Tax Reports EZTax Tax Log

Figure 1-1 AFC Operation Diagram

Adjustment information is returned to the billing system and is utilized to update tax data for report generation and compliance filing. AFC also provides facilities that allow users to insert tax overrides and exempt a transaction from taxes at federal, state, county and local authority levels. AFC also provides the capability to limit exemptions to a specific jurisdiction and to exempt specific taxes.

Using the AFC API is the most efficient method available for interfacing with the AFC system. Due to the superior performance of AFC, there is very little performance difference between a system running without taxation and one running with taxation generation by AFC.

1.3.6 General Product Information

Enhanced Flexibility for Users

User reporting and organizational activities have been enhanced with the addition of user defined fields. This empowers the user to include additional user specific information within transaction records, thereby enhancing reports and data files once processed by the AFC Engine. Note that the Batch Processing utility takes full advantage of the additional transaction fields.

Enhanced Capabilities for Processing Specialized Taxes

AFC maintains tax rate histories and applies them according to the transaction date. This allows for tax calculations to process transactions that require dated tax information.

- Billable Flag Allows for the identification of a compliance only tax or fee that is used for filing and not passed on to the user. It is noted as a non-billable item in the tax log.
- Compliance Flag Allows for the identification of a tax or fee that is a tax compliant item and that the tax or fee should be sent to the log. The reporting utilities can identify and generate compliance and billing reports. All existing taxes currently in AFC are compliance taxes or fees. A charge with the compliance set to false in logic is billable but the charge would not be place into the log for compliance or reported in compliance reports. This flag provides EZdata users with the ability to pass non-tax charges to the customer through AFC.
- Rate at Final Allows for a specialized application of tax brackets. Each bracket specifies the tax rate for the "Total Tax" range that it spans. The culmination of all of the brackets results in a tax rate "look-up" table for total transaction amounts.
- Tier At Transaction This logic flag indicates that tax will be calculated using graduated tax brackets on a transaction basis instead of a customer invoice basis.
- Tax On Tax Until No Effect Configuration settings in EZTax.cfg determine one of two methods to calculate Tax on Tax. If the configuration setting is left unchanged, AFC will perform a single iteration of the tax on tax calculation.

Additional Functions to Support New Capabilities

The Get Rates function has been added to retrieve all possible taxes when given a location by PCode. The structure of the returned tax information is compatible with the new override structure, so that specific changes can be applied to the existing tax data to create override entries.

New Version Tracking

A version number has been embedded into the AFC database to ensure database compatibility between the AFC software and the AFC database. The AFC Engine compares version numbers on session initialization. If incompatible version numbers are detected, a message is written to the status file and AFC system will not return a valid session handle.

Additional Tax Types

AFC now supports over 450 Tax Types to allow for highly specific tax type designation.

Increased Accuracy

The Tax Amount calculations have been modified to increase accuracy and further reduce rounding errors.

2. Mapping

The AFC software provides an extensive selection of Transaction and Service Types to meet your taxation requirements with a single taxation package. The correct matching, or "mapping," of your company products and services to the Valid Transaction and Service Pairings defined in AFC is an essential process that must be completed accurately for taxation to be calculated and applied properly to all transactions. If an incorrect pairing is passed to the AFC engine then no tax is usually returned.

Avalara support is available to assist should any questions arise in determining the correct Transaction and Service pair to use.

2.1 Transaction and Service Types

AFC stipulates a unique pair of numbers for each Transaction and Service Type. The first number defines the Transaction Type and the second number defines the Service Type. Transaction Types and Service Types are combined (or "paired") to uniquely describe a Valid Transaction / Service Pair for a transaction.

2.2 Valid Transaction/Service Pairings

Section 4.4.6 describes valid transaction/service pairings.

Avalara continuously evaluates products and services offered by companies and may add Transaction and Service Type combinations to accommodate products and services offered.

For the most current list of Transaction Types, refer to the Transaction Mapping Guidelines.pdf file located on your most recent Distribution/Update.

2.2.1 File transervdescsau.txt

A file named transervdescsau.txt is present in the database directory in each month's update. This file contains all of the valid transaction type/service type pairs, with the description of those types and of the pairing. It is a fixed format file, though there are spaces and commas between some of the fields for readability. It is described in the table below.

transervdesc.txt File Format Key		
Description Columns		
Alternate Flag	1-1	
Market Number	3-4	
Market Name	6-35	

transervdesc.txt File Format Key		
Description	Columns	
Transaction Type Number	38-39	
Transaction Type Description	41-90	
Service Type Number	93-95	
Service Type Description	97-146	
Long Description	148-end of line	

2.3 Tax Categories

Please reference the table below for a current list of Tax Categories.

Tax Categories		
Category ID	Name	
0	No Category Description	
1	Sales and Use Taxes	
2	Business Taxes	
3	Gross Receipts Taxes	
4	Excise Taxes	
5	Connectivity Charges	
6	Regulatory Charges	
7	E-911 Charges	
8	Utility User Taxes	
9	Right of Way Fees	
10	Communications Services Tax	
11	Cable Regulatory Fees	
12	Reserved	
13	Value Added Taxes	

3. Transactions

AFC accepts transaction records from the user and returns calculated taxes. For AFC to return the correct taxation the information in the transaction records must be correct and in the format that AFC requires.

Each Transaction contains the following information:

- 1. Customer Transaction Information
 - a. Customer Information
 - b. Company Information
 - c. Transaction Data
- 2. Taxing Jurisdiction Information

The Customer Transaction Information has been divided into three sections as suggested above for the purpose of this discussion (see the table below).

Customer Transaction Information					
Customer Information	Company Information	Transaction Data			
County Exempt	Company Identifier	Attribute			
County Exemption JCode		Charge			
Customer Number		Count			
Customer Type		Properties			
Exemption Type		Sale/Resale			
Federal Exempt		Service Type			
Federal Exemption JCode		Transaction Bill Date			
Incorp		Transaction Type			
Invoice Number					
Local Exempt					
Locality Exemption JCode					
Tax Type Exemptions					
State Exempt					
State Exemption JCode					
Optional fields					

3.1 Customer Information

Refer to the table below. The following customer information is contained in fields found in the transaction record.

Customer Information				
Description	Valid Entry			
Customer Number	Customer number, user defined			
Customer Type	0=residential, 1=business customer 2=Senior Citizen, 3=Industrial			
Federal Exempt	If TRUE, transaction exempt from Federal Tax			
State Exempt	If TRUE, transaction exempt from State Tax			
County Exempt	If TRUE, transaction exempt from County Tax			
Locality Exempt	If TRUE, transaction exempt from local tax			
Incorp	TRUE indicates within incorporated area			
Invoice Number	Invoice number (user defined)			
Federal Exemption JCode	Jurisdiction for Federal exemption			
State Exemption JCode	Jurisdiction for state exemption			
County Exemption JCode	Jurisdiction for County exemption			
Locality Exemption JCode	Jurisdiction for local exemption			
Tax Type Exemptions Count	0 indicates no of specific exempts, other value indicates number of specific exempts			
Tax Type Exemptions	Pointer to tax exempt structure that contains the specific tax exemptions specified in tax type exemptions			
Exempt Type	Reason for exemption			
Optional Fields:				
Optional	User defined value for reporting			
Optional Alpha	Optional alpha field			

Customer Information			
Description	Valid Entry		
Optional 4	Optional Numeric field		
Optional 5	Optional Numeric field		
Optional 6	Optional Numeric field		
Optional 7	Optional Numeric field		
Optional 8	Optional Numeric field		
Optional 9	Optional Numeric field		
Optional 10	Optional Numeric field		

3.1.1 Customer Number

The Customer Number is a 20-character null terminated string field stored in the tax log and used as the Primary Output Key for the AFC billing reports.

3.1.2 Customer Type

This field is used to specify the type of customer involved in the transaction. The customer type is selected from one of the following four Customer Types.

Cus	tomer Type	
ID	Value	Description
0	Residential	When transactions are made by a customer for home use.
1	Business	When transactions are made at a place of business
2	Senior Citizen	When transactions are made by a customer who meets the jurisdiction requirements to be considered a senior citizen and qualify for senior citizen tax breaks.
3	Industrial	When transactions are made at an industrial business.

3.1.3 Exemption Levels

The exemption level is the jurisdictional level of the taxing authority that defines the tax. It is used to exempt taxes at specific state, county and/or local taxes.

3.1.3.1 State Exempt

The State Exempt field is used to specify a State level tax exemption.

3.1.3.2 County Exempt

The County Exempt field is used to specify a County level tax exemption.

3.1.3.3 Local Exempt

The Local Exempt field is used to specify a Local level tax exemption.

3.1.4 Incorp

The Incorp field is used to specify whether the customer involved in this transaction is inside or outside of the Local level designated as their location. The tax may or may not be affected by this designator depending upon whether or not the local level has taxes which would apply to the transaction/service type pair.

3.1.5 Invoice Number

The Invoice Number is an optional field used to aid users in uniquely identifying a billing record for a specific customer within their system.

3.1.6 JCode Exemption Levels

The exemption JCode is the JCode associated with the jurisdictional level of the taxing authority that defines the tax. It is used to exempt all federal, state, county and / or local taxes. If the exemption JCode fields are not specified then all taxes are exempt at that level.

To pass an individual tax exemption using the JCode Exemption, use the Tax Exempt structure to specify the tax type, tax level and the JCode for the jurisdiction. Refer to Section 4.1.1.2.

NOTE:

JCodes are an internal intermediate Jurisdiction Code that can change monthly. The JCode can be obtained from a PCode or an address using like functions.

3.1.7 Tax Type Exemptions

Two fields are provided for entering the quantity of tax type exemptions and the pointers to the tax exemption structures.

3.1.7.1 Tax Type Exemptions Field

The Tax Type Exemption indicator specifies the number of tax type exemptions that are included. These are tax type and transaction specific exemptions.

3.1.7.2 Tax Type Exemption Pointer

Tax type exemption(s) are specified with a pointer to one or more tax exempt structures. The user should supply a pointer to the first tax type exemption and all exemptions must be contained in a contiguous block of memory.

3.1.7.3 Exemption Type

The reason for the exemption. This value is passed directly on to the log.

3.1.8 Optional Fields

Optional Fields are provided to allow clients to enhance reporting and billing utilities with information beyond the scope of that which is generated to support AFC activities.

The Customer Number is a 20-character text field that is not manipulated during processing and stored as part of the log file record.

It can be used as part of the sorting key (see Figure 3-1) when using some utilities, allowing for the combining of records based upon this and other fields. It is useful when it is desired to have like taxes from different transactions combined, to have taxes from each transaction detailed individually in a report or to have each transaction detailed at the customer level.

Figure 3-1 Primary Output Key

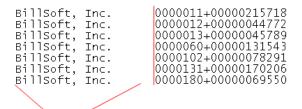
0000011+00000166465 0000012+00000034549 BillSoft, Inc.-1 Uniquekey.csf BillSoft, Inc.-1 BillSoft, Inc.-1 0000013+00000035335 BillSoft, Inc.-1 BillSoft, Inc.-1 0000060+00000094226 0000102+00000059900 BillSoft, Inc.-1 0000131+00000145856 BillSoft, Inc.-2 BillSoft, Inc.-3 0000060+00000000000 0000060+00000000000 BillSoft, Inc.-4 BillSoft, Inc.-5 0000060+00000000000 0000011+00000038136 0000012+00000007915 0000013+00000008095 Billsoft, Inc.-5 Billsoft, Inc.-5 Billsoft, Inc.-5 Billsoft, Inc.-5 0000060+00000021586 BillSoft, Inc.-5 BillSoft, Inc.-5 0000102+00000014391 0000180+00000069550 0000011+00000011116 Billsoft, Inc.-6 Billsoft, Inc.-6 Billsoft, Inc.-6 Billsoft, Inc.-6 0000012+00000002307 0000013+00000002360 BillSoft, Inc.-6 BillSoft, Inc.-6 0000060+00000006292 0000102+00000004000 BillSoft, Inc.-6 BillSoft, Inc.-7 BillSoft, Inc.-7 0000131+00000009740 0000060+00000009438 0000131+00000014610

Primary Output Key

Combined taxes

If you would want like taxes combined at the customer level, then you specify a like Primary Output Key for the records you want combined.

Samekey.csf



Primary Output Key

3.2 Company Information

Refer to Table 3-3. The following company information is contained in fields found in the transaction record.

Table 3-1 Company Information		
Description Valid Entry		
Company Identifier	Company Identifier, optional	

3.2.1 Company Identifier

The Company Identifier field is an optional field made available for alpha information, such as the name of a subsidiary company. This information is passed thru to the tax log so that reporting utilities can sort or summarize by this field.

3.3 Transaction Data

Refer to Table 3-4. The following transaction information is contained in fields found in the transaction record.

Table 3-2 Transaction Data Information			
Description Valid Entry			
Attribute	Freight, deposits, etc.		
Properties	Parameters describing the attribute.		
Charge	amount charged to customer for transaction		
Date Transaction bill date. This field is provided to allow rating and taxing to occur on other than the billing date.			
Count	Number of items		
Sale/Resale	TRUE = Sale, FALSE = Resale		
Service Type	Refer to Transaction and Service Types (Sales & Use) for valid Transaction / Service Type entries		
Transaction Type	Refer to Transaction and Service Types (Sales & Use) for valid Transaction / Service Type entries		

3.3.1 Attribute

The Attribute field refers to ancillary transactions related to the actual sale – freight, discounts, financing, installation, shipping/handling, maintenance and service contracts, and warranties.

3.3.2 Properties

Properties specify the details of the transaction's Attribute.

3.3.3 Charge

The Charge field specifies the amount of the transaction to be taxed. This amount will be passed through AFC to rate the tax based on the specified transaction/service pair.

3.3.4 Date

The Date field is normally populated with the bill date. Generally accepted accounting principles dictate that liabilities should be recorded when revenues are recorded. In most cases, neither of these is recorded (or even known) until billing occurs.

However, companies with a high call volume that record revenue daily as it occurs should record the tax on the same basis (i.e. the call date should be used).

AFC compares this date to the effective date of each tax that applies to the transaction. Historical rates and effective dates are maintained and updated within the AFC Engine and AFC will return the correct tax information based upon the transaction date. The monthly updates assure that the rates and effective dates are current.

WARNING:

All transaction data Date fields must be formatted as CCYYMMDD. Failure to do so will cause incorrect results when the transaction is processed.

3.3.5 Count

Number of items in the sale.

3.3.6 Sale Type

The following options are available as sales type:

Sales	Туре	
ID	Value	Description
0	Wholesale	Specifies that the transaction is a sale to another company that will resell
		the product or service to a consumer.
1	Retail	Specifies that the transaction is a sale to an end user.
2	Consumed	Specifies that the transaction is for an item that is consumed directly.
3	Vendor Use	Specifies that the transaction is for an item that is subject to vendor use
		tax.

3.3.7 Service Type

Refer to Transaction and Service Types for details of this field.

3.3.8 Transaction Type

Refer to Transaction and Service Types for details of this field.

To have exempt taxes available for reporting, exemption type 3 (Sales For Resale) should be used in combination with Resale.

3.4 Taxing Jurisdiction Identification Information

The tax jurisdiction that can claim nexus for the transaction must be obtained in order for the proper taxes to be applied. Assigning the correct jurisdiction to the transaction is crucial in obtaining and returning the correct tax to the billing system.

Jurisdiction information can be supplied to the AFC Engine in several ways. It can be supplied using a Jurisdiction Code (JCode), Permanent (location) Code (PCode), Zip Code with address information or FIPS Codes.

3.4.1 The JCode Jurisdiction Identification

Avalara has assigned each jurisdiction with a proprietary "JCode" (Jurisdiction Code) that identifies its specific territorial boundaries. A jurisdiction fairly claiming nexus on a transaction within this boundary will apply taxes accordingly. The AFC Engine uses this "jurisdiction bound" JCode to associate the jurisdiction specific taxes to the transaction as it is processed.

However, any alterations in the jurisdictional boundaries, such as an expansion of a city limit, will be reflected in the JCode of locations that are situated within the expanded jurisdiction area.

The Avalara tax research staff monitors jurisdiction taxation activity to maintain current and accurate taxation information. The results of this research is applied to the Monthly updates which are provided to ensure the most accurate taxation is applied to the records processed by the AFC Engine. The JCodes will be changed at this time. It is the user's responsibility to re-populate their database tables with the new JCodes every time an AFC update is provided. If this task is not performed, the AFC Engine will return incorrect tax calculations for jurisdictions that have been updated.

However, when a transaction is submitted with the stable and location sensitive PCode, the AFC Engine can use internal functions to obtain the correct jurisdiction. Since the AFC Engine is updated with the remapped jurisdiction information monthly, tax calculations are always performed with the most current jurisdiction taxation information that applies to the address defined by the PCode.

MY HOUSE MY HOUSE PCODE = 7PCODE = 8JCODE = 2000 JCODE = 1000 MOM'S HOUSE MOM'S HOUSE PCODE = 8 PCODE = 8 JCODE = 2000 JCODE = 2000 MY TOWN CITY LIMIT MY TOWN CITY LIMIT JCode and PCode After Annexation JCode and PCode Prior to Annexation

Figure 3-2 JCode and PCode Changes During Annexation

All that is required to make use of this recommended option is to cross reference or "map" the customer locations with its correct PCode. The time invested in incorporating PCodes into your database records will be quickly offset by the reduced processing time and the increased accuracy and reliability of your tax reporting will be evident.

3.4.1.1 Mapping Customer Locations to PCodes

Avalara markets Avalara Geo for Communications to assist in mapping customer locations to PCodes when populating the client customer database. It quickly obtains the current PCode for a specific geographical location.

When performing this task without the aid of EZgeo, refer to the all_adr.txt file to look up the PCode that should be used to populate the client database with customer information. This comma delimited ASCII file is supplied for use during AFC setup and when adding new customers to the client database. The file is replaced with a current version when monthly updates are performed (refer to Section 8.6).

all_adr.txt is a comma-delimited text file that contains a cross reference of PCodes to taxing jurisdictions. The format is PCode, Primary / Alternate Location, Country, State, County, Locality, Beginning ZIP Code, Ending ZIP Code. These fields are self-explanatory with the exception of the Primary / Alternate Location (refer to 3.4.1.1.1).

Primary / Alternate Location

The Primary / Alternate location flag is set to '0' to indicate that the location associated with the PCode is a "Primary" location or '1' to indicate that it is an "Alternate" location.

Secondary locations are original city names that remain in use even though the areas within them have since been divided and given different names.

For example, the city of Overland Park, KS is a primary location. The first post office to serve the area was established at the Shawnee Methodist Mission in the early nineteenth century, the extents of which encompassed the then non-existent city of Overland Park as well as nearly a dozen other cities (primary locations) which appeared over time. The post office still recognizes the Shawnee Methodist Mission area as Shawnee Mission, KS, and continues to deliver to a primary location when the "Alternate Location" address is provided.

3.4.1.2 Data Entry Modification Procedure

Use the following procedure to acquire the correct information to enter.

- 1. Have the customer data entry software request the zip code of the customer from the data entry associate.
- 2. Query the "all_adr" file/database to obtain the associated PCodes.
- 3. If matching PCodes are found, populate the customer data record with the associated address from the "all_adr" file and request verification from the customer data entry associate.
- 4. If the PCodes do not match or if the customer data entry associate rejects the automated selection, display all addresses associated with both PCodes and the zip code entered.
- 5. Allow the customer data entry associate to select the appropriate address from the list.
- 6. In the unlikely event that the customer address is not displayed, allow the customer data entry person to enter the address supplied by the customer. Store the address with a "special key" as instructed by Avalara. Return the address and key to Avalara via E-mail. Avalara will research the missing address and include it in the next monthly update. Avalara will also provide you with a cross reference of the "special key" and the correct "PCode" to allow the customer record to be properly installed.

NOTE:

Avalara subscribes to the United States Postal Database which should preclude this event. Nonetheless, it does occur on occasion and this process has been established for that reason.

7. Use the PCode from the customer record for the service address when interfacing with AFC.

Resources such as the USPS or the U.S. Census Department web sites can also be helpful in pinpointing a customer location.

AFC functions can also be used to obtain PCodes (see Section 7.8 API Listings). For detailed information about determining the tax jurisdiction which can claim nexus on a transaction, refer to Section 3.1.3 for details on exemption levels.

3.4.2 Zip Codes

This method of providing jurisdiction information is the least efficient method provided. A record submitted using this method will compromise the accuracy of correct jurisdiction identification, the degree of which would depend upon the amount of data provided for the address and the user's ability to select the correct taxing jurisdiction zip code and address. AFC databases necessarily contain numerous duplicate zip codes that cross taxing jurisdiction and locality boundaries. Providing a complete address with zip code will provide the best possible match. If the address information is not provided, AFC will return taxes based upon the first match of the input record information.

If the jurisdiction is positively identified by the billing system it would be appropriate to use the zip code for transactions. For instance, this would apply if the transaction is the sale of a product at a business that has just one location or in the case of internet usage from a residence.

AFC currently has Zip Code information for U.S. and Canadian jurisdictions. Use the Zip Code Plus 4 Interface to use the 6 character Canadian postal codes.

3.4.3 Zip Plus 4

Just as with the Zip Code method (see Section 3.4.2), AFC's jurisdiction determination will depend on the address information provided. However, it is useful (and more accurate than the 5-digit zip code) because this 9-digit zip code uniquely identifies a location, which can then be used to determine the tax jurisdiction. There is no need to supply the additional city and county information and information in these fields are ignored.

NOTE:

Supplying ZIP Code Plus 4 information where the plus 4 is all zeros will function like the ZIP Code Interface since the United States Postal Service has no valid plus 4 code assigned with all zeros. The default will retrieve the first jurisdiction with the supplied 5-digit zip code.

3.4.4 Canadian Postal Codes

Canadian postal codes need to be specified using the ZIP Plus 4 to retrieve a tax jurisdiction code. Place the first three characters go in the zip code field and the last three characters go in the plus 4 field. In addition, the country ISO field must be set to the Canadian ISO Code.

3.4.5 FIPS Codes

AFC has functions allowing the use of FIPS codes to retrieve tax jurisdiction codes. The US Census Bureau provides the following description of the FIPS Codes and associated reference tables.

"The Federal Information Processing Standards codes (FIPS codes) are a standardized set of numeric or alphabetic codes issued by the National Institute of Standards and Technology (NIST) to ensure uniform identification of geographic entities through all federal government agencies. The entities covered include: states and statistically equivalent entities, counties and statistically equivalent entities, named populated and related location entities (such as, places and county subdivisions), and American Indian and Alaska Native areas".

A FIPS Code is a 10-digit numeric code with the following format:

Table 3-3 FIPS CODE FORMAT			
SSCCCPPPPP			
SS FIPS State Code			
CCC	FIPS County Code		
PPPPP	FIPS Place Code		

Figure 3-3 FIPS State Codes for the States and the District of Columbia					
Name	FIPS State Numeric Code	FIPS State Alpha Code	Name	FIPS State Numeric Code	FIPS State Alpha Code
Alabama	1	AL	Montana	30	MT
Alaska	2	AK	Nebraska	31	NE
Arizona	4	AZ	Nevada	32	NV
Arkansas	5	AR	New Hampshire	33	NH
California	6	CA	New Jersey	34	NJ
Colorado	8	CO	New Mexico	35	NM
Connecticut	9	CT	New York	36	NY
Delaware	10	DE	North Carolina	37	NC
District of Columbia	11	DC	North Dakota	38	ND
Florida	12	FL	Ohio	39	ОН
Georgia	13	GA	Oklahoma	40	OK
Hawaii	15	HI	Oregon	41	OR
Idaho	16	ID	Pennsylvania	42	PA
Illinois	17	IL	Rhode Island	44	RI
Indiana	18	IN	South Carolina	45	SC
lowa	19	IA	South Dakota	46	SD
Kansas	20	KS	Tennessee	47	TN
Kentucky	21	KY	Texas	48	TX
Louisiana	22	LA	Utah	49	UT

Figure 3-3 FIPS State Codes for the States and the District of Columbia					
Name	FIPS State Numeric Code	FIPS State Alpha Code	Name	FIPS State Numeric Code	FIPS State Alpha Code
Maine	23	ME	Vermont	50	VT
Maryland	24	MD	Virginia	51	VA
Massachusetts	25	MA	Washington	53	WA
Michigan	26	MI	West Virginia	54	WV
Minnesota	27	MN	Wisconsin	55	WI
Mississippi	28	MS	Wyoming	56	WY
Missouri	29	MO			

Figure 3-4 FIPS State Codes for the Outlying Areas of the United States, the Freely Associated States and Trust Territory						
Area Name FIPS State Numeric Code FIPS State Alpha State						
American Samoa	60	AS	1			
Federated States of Micronesia	64	FM	3			
Guam	66	GU	1			
Marshall Islands	68	MH	3			
Northern Mariana Islands	69	MP	1			
Palau	70	PW	4			
Puerto Rico	72	PR	1			
Virgin Islands of the U.S.	78	VI	1			

3.4.6 Support for India

Processing tax calculations in the the country of India includes support for all the states. Please reference the table below for the appropriate IDs, abbreviations and PCodes for each state.

Note: This only applies to telecom support for India; however, it is visible to SAU clients.

States in India					
Ctry Code	ISO	State Id	Abbv	State	PCODE
356	IND	1	AP	Andhra Pradesh	5148401
356	IND	2	AR	Arunachal Pradesh	5148402
356	IND	3	AS	Assam	5148403
356	IND	4	BR	Bihar	5148404
356	IND	5	СТ	Chhattisgarh	5148405

			States i	n India	
Ctry Code	ISO	State Id	Abbv	State	PCODE
356	IND	6	GA	Goa	5148406
356	IND	7	GJ	Gujarat	5148407
356	IND	8	HR	Haryana	5148408
356	IND	9	HP	Himachal Pradesh	5148409
356	IND	10	JK	Jammu and Kashmir	5148410
356	IND	11	JH	Jharkhand	5148411
356	IND	12	KA	Karnataka	5148412
356	IND	13	KL	Kerala	5148413
356	IND	14	MP	Madhya Pradesh	5148414
356	IND	15	МН	Maharashtra	5148415
356	IND	16	MN	Manipur	5148416
356	IND	17	ML	Meghalaya	5148417
356	IND	18	MZ	Mizoram	5148418
356	IND	19	NL	Nagaland	5148419
356	IND	20	OR	Odisha	5148420
356	IND	21	РВ	Punjab	5148421
356	IND	22	RJ	Rajasthan	5148422
356	IND	23	SK	Sikkim	5148423
356	IND	24	TN	Tamil Nadu	5148424
356	IND	25	TG	Telangana	5148425
356	IND	26	TR	Tripura	5148426
356	IND	27	UP	Uttar Pradesh	5148427
356	IND	28	UT	Uttarakhand	5148428
356	IND	29	WB	West Bengal	5148429

States in India					
Ctry Code	ISO	State Id	Abbv	State	PCODE
356	IND	30	AN	Andaman and Nicobar	5148430
356	IND	31	СН	Chandigarh	5148431
356	IND	32	DN	Dadra Nagar Haveli	5148432
356	IND	33	DD	Daman and Diu	5148433
356	IND	34	DL	Delhi	5148434
356	IND	35	LD	Lakshadweep	5148435
356	IND	36	PY	Puducherry	5148436

3.5 Jurisdiction Identification Details

Obtaining the correct user's location is critical in calculating the local taxation.

3.5.1 Determining the Correct Taxing Jurisdiction for Wireline Long Distance

AFC applies taxes to transactions based on the statutes that dictate specific taxes per jurisdiction.

Each jurisdiction from the state level down to the local level establishes jurisdiction rules to determine if their tax will apply to a specific call transaction. These jurisdiction rules (also known as sourcing rules) for determining the correct jurisdiction arose from a United States Supreme Court ruling that established the minimum requirements necessary for a taxing jurisdiction to claim "nexus".

3.5.1.1 Incorrect Jurisdiction Assignment

A customer may be assigned an incorrect jurisdiction if the geographical information is not thoroughly researched. In the example shown in Figure 3-6, the customer (marked by an X) resides in a rural area located in Pawnee County, Nebraska, just outside the city limits of Summerfield, Kansas.

Figure 3-5 Geographical Anomaly



However, in all likelihood this customer's mail service is provided by the Summerfield, Kansas Post Office and therefore has a Summerfield, Kansas mailing address.

This geographical anomaly will cause an incorrect assessment of taxation if not researched properly. If the AFC user enters the customers Service Address information into the transaction records, the customer will be incorrectly assessed taxes according to those of the Summerfield, Kansas jurisdiction instead of those for the unincorporated area of Pawnee County, Nebraska jurisdiction.

4. AFC Calculations

The AFC Engine accepts the transaction record, processes the information provided and creates a table containing the generated tax information. Additional methods to process specialized taxes are available through the use of AFC functions.

4.1 Meeting the Requirements of Specific Tax Issues

Many tax issues are resolved within the AFC Engine, thereby relieving the user from making changes to account for them. Additional functions are provided to meet other special taxation issues.

Table 4-1 Specific Tax Issues				
Category	Description			
Specific Tax Exemptions	Specifies tax type at specific tax level for exemption			
Tax Adjustments	Allow for adjustment activities such as refunds, changing a customer's bill or when terminating un-collectable accounts.			
Tax Overrides	Allows for a change of a tax rate.			
Tax Rate Brackets	Tax rate that changes as the taxable amount of the transaction increases.			
Rate at Final	A specialized case of tax brackets.			
Discount Adjustment	Allows for entry of different discount adjustment types.			
Tier on Transaction	Allows for tax to be determined using graduated tax brackets.			
Tax on Tax Until no Effect	Option to control calculation of tax on tax			
Taxed Taxes	Allows for processing when one tax includes in its base the tax calculated from another tax.			
Get Rates	Retrieves current tax information in a form suitable for overrides.			

4.1.1 Tax Type Exemptions

Tax type exemptions are used to specify a specific Tax Type at a specific Tax Level to be exempted for the current transaction. The exemption jurisdiction code specifies the jurisdiction for the tax exemption. If the jurisdiction code is not specified (i.e. set to zero), then all taxes of the Tax Type and Tax Level specified are considered exempt regardless of the jurisdiction they are calculated for. Typically the JCode should be specified as specific tax exemptions are normally only effective for specific jurisdictions.

Another option allows the tax type to be set to zero, to indicate that all taxes of a specific tax level are exempt in the specific jurisdiction.

4.1.1.1 Declaring Tax Type Tax Exemptions within a Transaction Record

When setting up the AFC transaction record, there are fields that specify either exempt at a tax level or a specific tax. For more information, refer to Sections 3.1.3 for exemption levels, 3.1.6 for JCode exemption levels and 3.1.7 for tax type exemption levels.

4.1.1.2 Declaring Tax Type Exemptions Using Functions

Alternatively, tax type exemptions can be applied using functions (such as APIs). The following fields are required for this.

Table 4-2 Tax Exempt Record				
Tax Type	Tax Type identifier			
Tax Level	Tax Level identifier			
JCode for Exemption	e for Exemption Jurisdiction for exemption			

In addition, the transaction contains a pointer set to the tax exempt to exempt a specific tax.

Table 4-3 Tax Exemption Fields				
tax_exempt	Identifies the number of exemption records			
*s_exempt	Pointer to the Tax Exempt record (see Table 4-2) or Array of Tax Exempt records.			
	If no records are setup, this value should be null.			

4.1.1.3 General Tips When Declaring Tax Exemptions

- 1. The JCode is used to specify tax exemptions because exemptions are normally only effective for specific jurisdictions.
- 2. Some taxes are non-exemptible. Non-exemptible taxes may be overridden to exempt taxes that are normally not exemptible. Refer to Section 4.1.3 for more information on Tax Overrides.
- 3. It is easy to evaluate the exemptions passed through AFC because they are tracked separately and stored in the tax log by type of exemption.

4.1.2 Tax Adjustments

Tax adjustment functions provide for adjustment activities such as refunds, changing a customer's bill or writing off un-collectable accounts. The AFC engine allows adjustments to be passed by the user. Note that these adjustments must be accounted for to provide an audit trail.

Tax adjustments are made using the Adjustment functions. The tax amount entered should be a positive number for credit adjustments as the adjustment functions will appropriately sign the charges, lines or locations for computation purposes. The adjustments are logged in the EZTax.log along with the rest of the tax and transaction data associated with the tax run. The information is returned to the billing system and is utilized to update tax data for report generation and compliance filing.

Adjustments may be declared as 'default' in which case they are processed exactly like a similar charge transaction with negative tax results. They may be declared as least or most favorable. *This declaration is only useful for taxes which have multiple tiers or brackets and should be used with caution.* The rate will be determined separately for each tax returned within the tax table. AFC software will search the tiers or brackets and select the tier which has either the highest rate (for most favorable) or lowest rate (for least favorable) and apply that rate to the number of lines or charge amount as appropriate.

NOTE: Debit and credit transactions will generate different taxes if otherwise identical transactions are processed with the same least/most favorable flag. To reverse a most favorable credit adjustment the exact transaction should be sent as a debit adjustment with a least favorable flag.

4.1.2.1 General Tips When Making Tax Adjustments

- 1. To calculate adjustments accurately, AFC requires the following activity:
 - a. Call AFC using an adjustment API. (Please refer to the APIs provided in Section 7.8 API Listings).
 - b. Send positive values for change, line, and locations.
 - c. Set the adjustment method (see the Adjustment Method Table below).
 - d. Set the discount type (see the Discount Type Table in Section 4.1.6).
- 2. If logging is turned on, adjustments are stored in the eztax.log file with the other transactions.

Adjustment Method Table		
Name	Description	
Default	Tax brackets applied normally.	
LeastFavorableRate	Tax brackets applied to produce smallest tax refund.	
MostFavorableRate	Tax brackets applied to produce largest tax refund.	

4.1.3 Tax Overrides

Overrides allow the client to change the rate of a tax in the AFC Engine. Avalara markets the AFC Manager - Rate and Logic Modifier (a Graphic User Interface based Windows program that is sold separately) to support this activity. It steps the user through the process of creating an EZTax.ovr file. Alternatively, overrides can be achieved using the Override functions (such as APIs).

WARNING: An override to exempt taxes OVERRIDES the tax information in Avalara's tax research database. This is not recommended for those that do not possess a full understanding of the tax ramifications and liabilities when doing so.

Although all clients can use Tax Overrides, the method to make use of them depends upon the client type.

- 1. AFC SaaS Standard clients must use the AFC Manager Rate and Logic Modifier to create an EZTax.ovr file that contains the overrides to insert. The file is then uploaded to the service bureau inside the FTP.zip file that carries the CDS file for processing. The overrides are then used during that processing and for subsequent processing until a new or empty override file is uploaded.
- 2. Avalara clients that submit records in Batch fashion must use the AFC Manager Rate and Logic Modifier to create an EZTax.ovr file that contains the overrides to insert. Filelocs.txt is then modified to point to this file. When the data file is processed, the overrides are inserted automatically.

3. Avalara clients that integrate with the AFC Engine using functions (such as APIs) can use the Override utility as an easy way to create overrides in the same manner that batch mode and online clients do, modify filelocs.txt to point to the EZTax.ovr file or use the file path to point to the EZTax.ovr file.

The following functions use a session and a tax override record to override the tax rates used by AFC to calculate taxes.

Table 4-4 Tax Override Names and Descriptions				
Function Name	Override Description			
EZTaxOvrJCodeEx**				
	Performs tax override using a JCode to designate the			
**This is the override JCode function for the	Jurisdiction.			
most current version of AFC.				
EZTaxOvrPCodeEx	Performs tax override using a PCode to designate the			
	Jurisdiction.			
EZTaxOvrZipEx	Performs tax override using zip code and address information			
	to designate the Jurisdiction.			

4.1.3.1 Tax Override Fields

AFC functions can be used to override a specific tax rate used by AFC.

Table 4-5 Tax Override Fields			
Field	Description		
Scope	Scope of override		
Туре	Tax type identifier		
Level	Tax level identifier		
Exempt Level	Level of Exemption		
Limit	Maximum lines or charge to apply tax to		
Date	Effective date of Tax Rate		
Tax Rate	Tax Rate		
Previous Tax Rate	Previous tax rate		
Maximum Base	Maximum amount to apply tax		
Excess Tax	Rate for amount above the Maximum Base		
State Override	Override state rate if present		
County Override	Override county tax if present		
Replace State Tax	Tax replaces state tax		
Replace County Tax	Tax replaces county tax		

Scope

Refer to Table 4-6. The term Scope is used to indicate the magnitude of the override.

Table 4-6 Tax Level Effect of Exemption					
Tax Level	Scope	Effect of Exemption			
Federal	Federal	Exempt all defined Federal taxes			
Federal	State	Exempt entire State for the specific Federal taxes			
Federal	County	Exempt the Federal taxes within a specified County			
Federal	Locality	Exempt the Federal taxes within a specified Locality			
State	State	Exempt all Defined State taxes within a State			
State	County	Exempt the State taxes within a specified County			
State	Locality	Exempt the State taxes within a specified Locality			
County	State	Exempt all County taxes within a specified State			
County	County	Exempt all County taxes within a specified County			
County	Locality	Exempt the County taxes within a specified Locality			
Locality	State	Exempt all Locality taxes within a specified State			
Locality	County	Exempt all Locality taxes within a specified County			
Locality	Locality	Exempt all Locality taxes within a specified Locality			

As an example, specifying a gross receipts tax at the Local level with a scope of State level will cause all jurisdictions in the state identified by the jurisdiction to be passed to the AFC Engine with the specified tax overridden. The County level affects all taxes in the County and Local level affects only the jurisdiction specified. The specification of Federal level is only valid with federal taxes which will always be overridden at the Federal level.

Type

The Tax type identifier is used to define the type of tax for which the override will apply. Refer to Table 4-19 for a complete list of Tax Types supported in AFC.

Level

The Tax level identifier is used to define the level for which the override will apply.

Exempt Level

Refer to Table 4-6. The Exempt Level indicator is used to define whether a tax can be exempted by an exemption for all taxes at the same level as this tax. TRUE indicates that the tax can be exempted while FALSE indicates that it cannot be exempted. Note that the tax can still be exempted by a specific tax exemption.

For instance, a state level universal service fund will be exempt if this field is set TRUE and a state level tax exemption flag is passed to AFC. If the flag is set TRUE an exemption at the level of the tax will exempt the tax. If the flag is set FALSE an exemption at the level of the tax will have no effect on that specific tax.

Limit

The limit indicator is only used for taxes applied per line or location. When this field is set to zero it indicates no limits are in effect for the specified tax. When the limit is not zero, AFC will apply the tax based upon the number of lines or locations up to, but never exceeding, the limit amount. This has no effect on sales taxes

Date

The Date field is used to define the effective date that the tax rate is active. The transaction date is compared to the effective date to determine if the current tax rate or the previous tax rate is to be applied.

Tax Rate

If the taxes are computed as a percentage of the charge then the Tax Rate field is used to indicate the tax rate. For example, if a 5% sales tax were applied then the tax rate would be entered as .05. For all other taxes such as per line, fixed, per minute and per location, the dollar amount should be entered for the tax.

Previous Tax Rate

The Previous Tax Rate field is supplied for use when a previous tax is to be used for the tax rate.

Maximum Base

The Maximum Base defines the maximum charge that the tax is applied to. Any charge above the maximum base is charged at the excess tax rate.

Excess Tax

If the tax only caps the charge that the tax is applied to then set the excess tax to zero.

State Override

The Locality or County sales tax record can override the state sales tax rate. This is useful where localities or counties have a special agreement with the state to collect the state tax at a different rate. If the tax is zero then no override will be in effect.

County Override

The Locality sales tax record can override a County sales tax rate. This is useful where localities have a special agreement with the County to collect the County tax at a different rate. If the tax is zero then no override will be in effect.

Replace State Tax

This option is made available for the rare occasion when a Locality or County sales tax replaces the state sales tax completely.

Replace County Tax

This option is made available for the rare occasion when a Locality sales tax replaces a county sales tax completely.

4.1.3.2 Tax Override Options

The Enhanced Override is used to override taxes.

Table 4-7 Tax Override Options			
Name Description			
Enhanced Override Required fields for the Enhanced Override.			
Enhanced Date Override Required fields for Date Override.			
Enhanced Rate Override Required fields for Rate Override.			

Enhanced Override

The Enhanced Override requires the following fields.

Table 4-8 Enhanced Override Fields		
Scope	Scope of override	
Туре	Tax Type identifier	
Level	el Tax Level identifier	
Date Count	Number of date records (normally 2)	
Date Table	e Address of array of date records	

Enhanced Date Override

The Enhanced Date override requires the following fields.

Table 4-9 Enhanced Date Override Fields		
Override Date	Starting (effective) date for this set of tax rates	
Rate Count Number of rate records for this date (normally 1)		
Indicates if tax can be exempted by an exemption for all taxes at the same level as this		
Level Exempt	Tax can still be exempted by specific tax exemption.	
Rate Table	address of array of rate records	

Enhanced Rate Override

The Enhanced Rate Override requires the following fields and rate entries in rate table for taxes.

Table 4-10 Sales Rate Override Fields			
Tax Amount (rate)			
Maximum Base Max amount subject to this tax(end of bracket)			
Replace State Tax replaces the state tax			
State Override Overrides the state rate if present			
Replacement County Tax replaces the county tax			

Table 4-10 Sales Rate Override Fields		
County Override Overrides the county tax if present		

4.1.3.3 Get Rates

The AFC Get Rates function can be used to build the current tax information into the override structure. Specific changes can be made to returned tax entries to create custom overrides.

Table 4-11 Get Rates Override Fields			
PCode Jurisdiction PCode			
Tax Count Count of all taxes for this jurisdiction			
*Taxes Table Table of all taxes for this jurisdiction in override format			

NOTE:

The scope value will be set to the tax level.

4.1.3.4 General Tips When Using Overrides

- 1. Overrides are not permanent. When an AFC session is exited the created overrides are removed and no longer available. They can also be removed without exiting a session using the EZTaxRestore function.
- 2. AFC cannot override a tax that does not exist. If an existing tax is a rate, it is necessary to override the tax as a rate, not a per line or fixed amount. Failure to do so will result in incorrect and high tax amounts.
- 3. Non-exemptible taxes may be overridden to exempt taxes that are normally not exemptible.
- 4. The AFC Override functions can be used to override the rates, but they will not affect the rules that determine what taxes are applied to different transaction/service pairs.

4.1.3.5 General Rules for Configuring Override File

- 1. The override file path must be listed in filelocs.txt.
- 2. The override file must be the last item in filelocs.txt.
- 3. There cannot be any blank lines in filelocs.txt.

Also, in order to verify that an override file is in the process of being loaded, the user must go to the AFC Directory and locate the .sta or status file which indicates that an override file has been successfully loaded.

4.1.4 Tax Rate Brackets

Some jurisdictions will dictate a tax rate that changes as the taxable amount of the transaction increases. These break points at which the changes occur define the brackets (or steps) and are most commonly based on dollar amount ranges although other units of measure exist. The rate may increase or decrease according to usage levels.

AFC supports these transactions with an unlimited number of tax brackets. The Avalara Tax Research department continually researches jurisdictions for specific tax practices, such as tax rate brackets, updating the AFC Engine monthly. These updates occur automatically and the user is not required to make changes to account for this.

An example of this is illustrated in Figure 4-1 . If a jurisdiction has a general sales tax set at 2% for the first \$500 of a single transaction and set at 1% for that which is over \$500, the tax for a \$1200 sale would be calculated as shown in Figure 4-1.

Figure 4-1 Example of Sale with Tax Brackets						
First \$500 of Sale	\$500	@	2%	=	\$10.00	
Remaining Amount of Sale (Over \$500)	\$700	@	1%	=	7.00	
					\$17.00	Total Tax

4.1.4.1 Rate Final

Rate at Final is a variation of the typical tax bracket. Basically a lookup table, each bracket is defined by the break points at which a rate change occurs and contains the rate to be charged for the total transaction amount falling within the range.

For example, suppose a state establishes a sales tax with a tax rate dependent on the total sale amount as shown in Figure 4-2 .

Figure 4-2 Example of Tax Brackets					
Total	Rate				
\$0.00 - \$500.00	7.65%				
\$500.01 - \$1000.00	9.00%				
\$1000.01 - \$5000.00	7.65%				
\$5000.01 up	7.50%				

If the sale is \$200, the tax rate of 7.65% will apply for a total tax of \$15.30.

If the sale is \$700, the tax rate of 9.00% will apply for a total tax of \$63.00.

If the sale is \$1500, the tax rate of 7.65% will apply for a total tax of \$114.75.

If the sale is \$6000, the tax rate of 7.50% will apply for a total tax of \$450.00.

4.1.4.1 Limits

Some jurisdictions have established tax rates that either take effect or cease to take effect at a threshold, a specific currency value. The point at which this occurs is referred to as a cap or limit. AFC supports these transactions and the user is not required to make changes to account for it.

As an example, if a jurisdiction charges a 10% sales tax on only the first \$10 of an invoice, the tax for a \$20 invoice would "cap" at the \$10 threshold, resulting in a $($10 \times 10\% =) 1 sales tax.

As an example of the converse, if a jurisdiction does NOT tax the first \$25 of a purchase, a \$35 charge would be reduced by the \$25 threshold "limit," resulting in a (\$35 - \$25 =) \$10 taxed amount.

4.1.5 Surcharges

The returned tax table shows which tax entries are considered surcharges.

4.1.6 Discount Adjustment

AFC has an additional table that stores discount types by state with an "allow ability" indicator. The adjustment functions have arguments for the discount type which look up the discount type from the table to determine whether to apply taxes or not.

Discounts may or may not be taxed within each state. When a discount is taxed, the customer receives a tax benefit commensurate with the amount of the discount (i.e., if the customer gets \$5 off on a transaction subject to a 5% tax, the customer pays \$0.25 less in tax than they would have). When a discount is not taxed, the customer receives no tax benefit from the discount. Whether a discount is taxed or not depends on the type of discount and the rules in a particular tax jurisdiction.

AFC provides five discount types to use in defining the particular discount to be applied and are fully described with supporting example in the following sub-sections.

Disco	Discount Type				
ID	Value	Description			
0	None (Default)	Discount Type not applicable.			
1	Retail Product	An amount subtracted from the original price to arrive at a lower price.			
2	Manufacturer Product	A credit applied to the total amount reimbursed to either the retailer or			
		the customer by the manufacturer.			

Disco	Discount Type				
ID	Value	Description			
3	Account Level	A stand-alone discount that is not applied against any service but instead as a stand-alone product.			
4	Subsidized	A credit for telephone service where the telephone provider provides a service to a lifeline eligible customer. The credit will be applied to the subscriber line charge.			
5	Goodwill	A credit applied to customer invoices for the purpose of engendering customer goodwill. For example, compensation for a service outage.			

4.1.6.1 Account Level

Especially prevalent in large accounts, this discount is a stand-alone discount that is not applied against any service but instead as a stand-alone product.

Example Description of Account Level

A Kansas customer spends significant amounts on a wide range of services including local exchange, intrastate toll, and interstate toll. The customer's purchasing activity occurs in several states and across multiple accounts. The customer's spending levels earn it a \$1,000.00 discount that is not applied to any particular product or service, but will be applied at an account level.

The Corporate Tax Department has determined that account level discounts in Kansas will receive full tax credit, so the discount is mapped to a Tax Category created to represent generic account level discounts and the customer gets a \$53.00 credit of Kansas state sales tax along with the \$1,000.00 discount. The application of Kansas sales tax to the discount, rather than other state's sales taxes (i.e., states in which there was purchasing activity that helped to earn the discount), is a consequence of the discount being applied to a Kansas account and SBC Corporate Tax has determined that the related tax risk is acceptable.

4.1.6.2 Goodwill

A credit applied to customer invoices for the purpose of engendering customer goodwill. For example, compensation for a service outage.

Example Description of Goodwill

A Kansas customer buys a second line and gets voice mail free for a month (\$6.00 value). The free voice mail is a Goodwill Discount because, although it is offered by the retailer and applied to a particular product or service, the terms of the promotion provide that the discount will not be taxed.

To accomplish this, the billing system will make separate calls to the taxing engine of \$6.00 for the monthly recurring voice mail charge and -\$6.00 for the Goodwill Discount. Both transactions will be represented by the same tax category, but the billing system will send an additional value on the discount

transaction indicating that it is a Goodwill Discount. The \$6.00 charge for voice mail generates \$0.32 in Kansas state sales tax. When the -\$6.00 discount is processed for tax applications, the taxing engine determines that a Goodwill Discount is not taxed and generates -\$0.00 in Kansas state sales tax. The offsetting tax amounts are presumably netted together in the tax summary on the customer's bill. Whether the charge and discount amounts are netted on the customer's bill is up to the billing system, and does not affect the tax calculation or the presentation of tax on the bill.

4.1.6.3 Manufacturer Product

A credit applied to the total amount reimbursed to either the retailer or the customer by the manufacturer.

Example Description of Manufacturer Product

A Kansas customer buys a satellite dish for \$300.00 and receives a \$50.00 rebate (discount) from the satellite company. The billing system will make separate calls to the taxing engine for the dish charge of \$300.00 and the discount of -\$50.00. Both transactions will be represented by the same tax category, but the billing system will send an additional value on the discount transaction indicating that it is a Manufacturer Discount. The \$300.00 charge for the satellite dish generates \$15.90 in Kansas state sales tax. For the -\$50.00 discount, the tax engine determines that Kansas does not allow any tax credit on Manufacturer Discounts and generates \$0.00 in Kansas state sales tax. The offsetting tax amounts are presumably netted together in the tax summary on the customer's bill. Whether the charge and discount amounts are netted on the customer's bill is up to the billing system, and does not affect the tax calculation or the presentation of tax on the bill.

4.1.6.4 Retail Product

A retail product discount is an amount subtracted from the original price to arrive at a lower price.

Example Description of Retail Product

A Kansas customer has voice mail and is charged a monthly recurring charge of \$6.00/month. The customer buys a second line and gets voice mail free for a month. The billing system will make separate calls to the taxing engine for the monthly recurring charge of \$6.00 and the discount of -\$6.00. Both transactions will be represented by the same tax category, but the billing system will send an additional value on the discount transaction indicating that it is a Retailer Discount.

The \$6.00 charge for voice mail generates \$0.32 in Kansas state sales tax. For the -\$6.00 discount, the tax engine determines that Kansas allows a full tax credit on Retailer Discounts and generates -\$0.32 in Kansas state sales tax. The offsetting tax amounts are presumably netted together in the tax summary on the customer's bill. Whether the charge and discount amounts are netted on the customer's bill is up to the billing system, and does not affect the tax calculation or the presentation of tax on the bill.

4.1.6.5 Subsidized

A credit for telephone service where the telephone provider provides a service to a lifeline eligible customer. The credit will be applied to the subscriber line charge.

Example Description of Subsidized

A Kansas Lifeline customer purchases local exchange service. Local exchange service is normally \$24.00, but Lifeline customers are charged \$20.50 and the balance of \$3.50 is drawn from a federal government fund for the subsidization of local exchange service to Lifeline customers. The company still has \$24.00 in revenue and will owe Kansas state sales tax on the entire \$24.00 in revenue. The company is prohibited from drawing on the federal government fund to pay for the tax on the \$3.50, so the customer must pay all of the applicable tax.

4.1.7 Tier at Transactions

In some states, the sales tax on a product has tier taxing logic. When tax is calculated using Tier at Transactions the tax is determined using graduated tax brackets on each transaction separately rather than the amount of the customer invoice. The tax applies tax brackets based on the single product transaction. Tier at Transaction is not the default setting in AFC.

4.1.8 Tax on Tax Until no Effect

The default application of tax on tax is to make one pass through the calculation of each tax, adding the appropriate taxes to the base amount to be taxed. If the tax on tax until no effect option is selected, AFC will continue to recalculate tax on tax until the amount added is less than 0.005 (one half of a cent).

4.1.9 Historical Tax Rates

AFC maintains an unlimited number of past tax rates. The tax rate history tables contain the tax rates and effective dates and are referenced when tax calculations are performed on date other than the current date.

4.1.10 Taxed Taxes

Taxed taxes are instances in which one tax includes in its base the tax calculated from another tax. The scope of this document prohibits a discussion of the many examples of taxed taxes.

Refer to Figure 4-3. In the case where two taxes are returned for a transaction (tax A and tax B in this example), tax A might be included in the base of tax B. If both taxes are returned for a \$100 charge, the taxes would be calculated as follows:

Figure 4-3 Taxed Taxes Example (tax rate of 3% is used in this example)						
٦	Tax A FET					
Charge		\$100.00		Charge		\$100.00
Rate	Х	3 %				
Tax Amount	=	\$3.00	→	Tax A	+	\$3.00
				Tax B base	=	\$103.00
				Rate	Х	3%
				Tax Amount	=	\$3.09

4.2 Tax Logging

Once the tax calculations are complete, the EZTax.log is created. The log is a binary database containing all of the taxes generated during the tax run. Information in the log includes the jurisdictional data, tax types, tax levels, sale amounts, tax rates, tax amounts, exemptions, adjustments, customer number, etc.

Once AFC performs a graceful exit, the EZTax.log is available for use. This file is commonly used to create tax returns, provide audit trails and internal tracking, and used when making projections.

The options available for reporting the tax information vary based on the integration method that the client has chosen to use.

- 1. Batch mode clients The EZTax.log is automatically produced when processing the .CDS file. Several utilities are available for use to produce files to be imported into the billing system. Refer to Section 5.1 for utility selection assistance.
- 2. AFC SaaS Standard clients The EZTax.log is automatically produced and the sorting and reporting activities are performed automatically.
- 3. On-site clients The EZTax.log is automatically produced. Many sorting and reporting utilities are available for use to produce the desired output file. Refer to Section 5.1 for utility selection assistance.
- 4. APIs Clients who use the functions (such as APIs) must turn logging on to gain the benefit of sorting utilities. All of the information used for billing is returned real time during taxation.

4.3 Returned Taxes

Once the tax calculations are completed, the tax information is placed in the Tax Table, available to be returned to the user from the AFC engine. An additional Tax Table will be returned if using Invoice Mode.

4.3.1.1 Taxes Table

The AFC Table is dynamically allocated during AFC session initialization. This table is used to store tax information as AFC processes transaction records. The size of this table is dependent upon the maximum taxes that can be generated for a single transaction. As such, the size of this table can change from month to month as new taxes are generated or removed from taxing jurisdictions. It is always safe to access from 0 (zero) to [tax_count_returned -1] locations of the table. The user is cautioned to treat this as a read only area. Attempting to access locations that do not exist will result in access violations on most operating systems.

Each function that performs tax calculations or tax exceptions returns a count of taxes generated for the specified transaction. The transaction tax data can be retrieved for use in a billing system by accessing the Tax Table pointer which indicates the location of the tax amount in the AFC Table array.

4.3.2 Returned Tax Information

Tax information can be returned using the P Code, J Code, Zip or FIPS functions. A value is returned to indicate the number of taxes returned and included in the Tax Table. Each tax calculated is returned as a record in the tax table. Taxes are retrieved by looping through the table by the number of taxes, which is then returned by the taxation API call.

Each row in the Tax Table will contain the information shown in Table 4-12.

Table 4-12 Enhanced Taxes Table Fields				
PCode for tax jurisdiction				
Tax Type				
Tax Level**				
Calculation Type (i.e. Rate, Fixed, Per Minute, Per Line)				
Tax Rate or amount applied				
Calculated tax amount				
Amount of charge plus any taxed taxes				
Amount of the charge exempt from taxes				
Tax description string				
Billable flag from tax logic				
Compliance flag from tax logic				
FET taxable flag from tax record				

^{**}Country taxes within any US territory will be returned at a state level versus a federal level.

4.3.3 Returned Tax Information Using Invoice Mode

AFC applies Steps, Brackets and/or Limits on a per transaction basis unless operating in Invoice Mode. Invoice Mode is used to group transactions that apply to the same customer. AFC maintains a history of the transactions and applies the Steps, Brackets and/or Limits to entire group of transactions.

For example, suppose a jurisdiction charges a 10% sales on just the first \$10 of an invoice. If two separate \$6 transactions on the invoice are passed while not in Invoice Mode, two \$0.60 tax charges would be erroneously totaled and a \$1.20 tax would be generated. However, if these same transactions are passed while in Invoice Mode, the total tax charge would be correctly totaled and a \$1.00 tax would be generated.

Table 4-13 Invoice Mode Tax Table Fields				
PCode	PCode for tax			
Тах Туре	Tax Type			
Tax Level	Tax Level**			
Calculation Type	Calculation Type (i.e. Rate, Fixed, Per Minute, Per Line)			
Rate	Tax Rate or amount applied.			
Tax Amount	Calculated tax amount.			
Exempt Sale Amount	Amount of the charge exempt from taxes.			
*Desc	Tax description string			
Lines	For tax calculations based on line counts, it is the number of lines used in the calculation to produce the tax. For Federal taxes, the line count always matches the lines input. For all other taxes, it is 0.			
Minutes	For tax calculations based on minutes, it is the number of minutes used in the calculation to produce the tax. For all other taxes, it is 0.			
Max Base	Maximum amount to which tax is applied amounts above this will be taxed at a higher bracketed rate (if applicable).			
Min Base	Minimum amount to which tax is applied amounts below this will be taxed at a lower bracketed rate (if applicable).			
Excess Tax	Rate for amount above Max Base returned as part of county tax.			
Total Charge	Sum of charges calculated on a per customer basis.			

^{**}Country taxes within any US territory will be returned at a state level versus a federal level.

4.3.4 Tax Grouping

AFC allows a client application to group the tax calculation results returned in the tax table based on tax level and tax type criteria. This may be accomplished by setting the appropriate group mode option in the configuration file (see **TM_00548_AFC Configuration Guide**). The option specified in the configuration file will automatically be applied to every AFC session as it is initialized. However, this option may be overridden by calling the EZTaxGroupResults API function.

NOTE:

This option will not modify the way that tax calculation results are logged into the EZtax log file. Only the tax calculation results returned by either

one of the tax calculation API will be group according to the values set for this option.

General Rules

The following rules apply when using any value for this option:

Federal taxes may not be grouped. Each Federal tax will be returned individually.

Non-billable taxes may not be grouped.

Only rate-based taxes may be grouped. Taxes with a different calculation type (for example, fixed, per line, etc) will be returned individually.

Use taxes may be grouped with other use taxes only (for example, state and local use tax).

Use

taxes will not be grouped with other tax types.

When grouping taxes for different tax levels (for example, state and local taxes) the jurisdiction

code for the lowest level jurisdiction will be returned.

Unincorporated taxes will be considered as County taxes when grouping taxes by tax level, and

will be grouped accordingly.

The tax rates for all taxes being grouped into a single record will be added together.

Options:

AFC provides the following options in order to group the taxes in the tax table by tax level:

Group taxes at the same level. When using this option, taxes at the same level will be grouped

together.

Group state, group county and local. By using this option, all state level taxes will be grouped into a single record, and all county and local taxes will be grouped together into a separate record.

Group state, county, and local. If this option is specified, all state, county, and local taxes will be

grouped together.

In addition to grouping taxes by tax level, AFC allows you to separate sales taxes from other tax types. The following options may be used in conjunction to the tax level options specified above.

- 1. *Group sales taxes*. This option indicates that Sales Taxes (tax type 1) and Use Taxes should be grouped separately from other taxes.
- 2. Group taxes in the sales category. All taxes that are in the sales category (such as some District and Transit taxes, in addition to Sales Taxes) will be grouped together separately from other taxes.

If the group mode is being specified within the EZTax.cfg file, the sales tax option may be combined with the tax level option by inserting the option in the line following the tax level option. For example:

groupstatecountyandlocal

groupsalescategory

When calling the API function, a sales tax option may be combined with a tax level option by using the bitwise OR operator in the group mode parameter. For example:

```
EZTaxGroupResults(session, GROUP_ST_CO_LOCAL | GROUP_SALES_CATEGORY);
```

By using the default option in the configuration file or the API function, this feature will be disabled, and all taxes will be returned in an individual record.

Tax Return Table

When grouping taxes together, the fields in the tax return table will contain the following values:

Jurisdiction Code. Jurisdiction Code (PCode or JCode depending on the API call and interface being used) for the lowest level jurisdiction. For example, if Kansas state taxes and Overland Park local taxes were grouped together, the tax record will contain the jurisdiction code for Overland Park.

Tax level. When grouping State, County and Local taxes together, the tax record will contain a value of 6 in the tax level. When grouping only County and Local taxes together, the tax record will contain a value of 7 in the tax record. Constants are provided for these values in the appropriate file.

Tax type. When grouping different taxes together, the tax type in the tax record will contain a value of 0. If only Sales Taxes (tax type 1) or Use Taxes (tax type 49) are being grouped together, the tax record will contain the corresponding tax type.

Tax amount. This field will contain the sum of the tax amount for all taxes being grouped together.

Tax rate. This field will contain the sum of the tax rates for all taxes being grouped together.

NOTE:

The remaining fields in the tax table will not contain any meaningful value. Grouping tax calculation results may serve as a way to simplify the tax information for display purposes only. If further detail is required for each tax being returned by AFC, this feature should not be used.

4.4 Sales and Use

The AFC Sales and Use feature allows API users access to an expanded set of Transaction and Service Type pairs. A Sales and Use transaction requires not only the valid Transaction and Service Type pair but must also include one or more attribute(s). The attributes are used to further specify details of a transaction, such as the freight costs or the purchase of an extended warranty.

Sales and Use contains a comprehensive list of transactions to handle your taxation needs. In addition to the products/services, other items such as Shipping, Discounts, Installation, etc. may or may not be taxable depending on the underlying transaction. AFC Sales and Use provides the ability to pass these items with each transaction. The system automatically determines the taxability of these items based upon the jurisdiction.

AFC Sales and Use contains sourcing tables to determine where the taxable event took place based upon the order entry information entered into the API. The tables contain sourcing information for both SSTP and non-SSTP states. The transactions are designed with a one-to-one relationship with SSTP definitions and also include definitions for non-SSTP states.

4.4.1 Sales Transaction Data Attributes and Properties

Sales and Use attributes are used to specify the sales transaction data of a transaction. The Default attribute is included by "default" in most transactions as it is used for the sale of the product or service itself. However, it is possible for a transaction to occur that does not include the Default attribute, such as when the purchase of a service contract for a product occurs sometime after the sale of a product.

In most cases a Sales and Use transaction will include more than one attribute in order to completely define it.

Properties are included within some attributes to further define options within the attribute. Please refer to TM_00506 AFC Sales and Use Mapping Guidelines for definitions of each attribute and associated properties.

4.4.2 Freight On Board (FOB) Transaction Details

The table below provides a detailed breakdown of freight transactions specific to FOB. Please reference **TM_00506 AFC Sales and Use Mapping Guidelines** for additional details, descriptions and examples for all of the possible freight transaction combinations or properties.

	Ta	ble 4-14 FOB Transaction Attributes		
Attribute	Property	Description	Example	
FOB using	FALSE = FOB Shipping Point	A term that signifies that the freight being shipped is the responsibility of the buyer after it leaves the point where it is shipped from.	Company A ships an item from its docks in New York to Los Angeles. Company A would be liable only while the property is in their possession at their docks in New York.	
FIPS Codes	TRUE = FOB Destination	A term that signifies that the freight being shipped is the responsibility of the seller until the item being shipped is received by the buyer.	Company A ships an item from its docks in New York to Los Angeles. Company A would be liable up until the item is received in Los Angeles	
ship_from_fip		Ship from Fips Code		
ship_to_fips_c	code;	Ship to Fips Code		
sau_tax_data		Transaction data		
FOB using JCodes	FALSE = FOB Shipping Point	A term that signifies that the freight being shipped is the responsibility of the buyer after it leaves the point where it is shipped from.	Company A ships an item from its docks in New York to Los Angeles. Company A would be liable only while the property is in their possession at their docks in New York.	
Todes	TRUE = FOB Destination	A term that signifies that the freight being shipped is the responsibility of the seller until the item being shipped is received by the buyer.	Company A ships an item from its docks in New York to Los Angeles. Company A would be liable up until the item is received in Los Angeles	
ship_from_j_c	ode;	Ship from JCode		
ship_to_j_cod	e;	Ship to JCode		
sau_tax_data	T	Transaction data		
FOB using PCodes	FALSE = FOB Shipping Point	A term that signifies that the freight being shipped is the responsibility of the buyer after it leaves the point where it is shipped from.	Company A ships an item from its docks in New York to Los Angeles. Company A would be liable only while the property is in their possession at their docks in New York.	
	TRUE = FOB Destination	A term that signifies that the freight being shipped is the responsibility of the seller until the item being shipped is received by the buyer.	Company A ships an item from its docks in New York to Los Angeles. Company A would be liable up until the item is received in Los Angeles	
ship_from_p_code;		Ship from PCode		
ship_to_p_code;		Ship to PCode		
FOB using ZIP P4 Codes	FALSE = FOB Shipping Point	A term that signifies that the freight being shipped is the responsibility of the buyer after it leaves the point where it is shipped from.	Company A ships an item from its docks in New York to Los Angeles. Company A would be liable only while the property is in their possession at their docks in New York.	

Table 4-14 FOB Transaction Attributes					
Attribute	Property	Description	Example		
		A term that signifies that the	Company A ships an item from		
	TRUE = FOB Destination	freight being shipped is the	its docks in New York to Los		
		responsibility of the seller until the	Angeles. Company A would be		
		item being shipped is received by	liable up until the item is		
		the buyer.	received in Los Angeles		
ship_from_zip_address_P4;		Ship from ZIP Code+4 and address information			
ship_to_zip_address_P4;		Ship to ZIP Code+4 and address information			

4.4.3 Tax Data Structure

Table 4-17 Tax Data Structure				
	0=residential, 1=business customer, 2=Senior Citizen,			
customer_type;	3=Industrial			
sale;	flag - retail/sale or wholesale/resale			
trans_type;	see the programmer user's			
srv_type;	manual for valid transaction service type pairs			
attr;	SAU_FREIGHT, SAU_DEMURRAGE, SAU_DEPOSITS,			
sau_freight_properties freight;	properties for freight			
sau_discount_properties discount;	properties for discounts			
sau_finance_properties finance;	properties for finance			
sau_installation_properties installation;	properties for installation			
sau_shipandhandling_properties shipandhandle;	properties for shipping and handling			
sau_softwaremaint_properties softwaremaint;	properties for software maintenance			
sau_svc_contract_properties svccontract;	properties for service contracts			
sau_maint_agreement_properties maintagreement;	properties for maintenance agreements			
sau_factory_warranty_properties facwarranty;	properties for factory warranty			
sau_extended_warranty;	Properties for extended warranty			
date;	transaction bill date			
charge;	amount charged to customer			
count;	number of items			
incorp;	incorporated or unincorporated area			
FED_exempt;	If TRUE, transaction exempt from Federal Tax			
st_exempt;	If TRUE, transaction exempt from State Tax			
co_exempt;	If TRUE, transaction exempt from County Tax			
loc_exempt;	If TRUE, transaction exempt from local tax			
FED_J_Code;	Jurisdiction for Federal exemption			
st_J_Code;	Jurisdiction for state exemption			
co_J_Code;	Jurisdiction for county exemption			
loc_J_Code;	Jurisdiction for local exemption			
spc_exempt;	O indicates no of specific exempts, other value indicates			
· - ·	number of specific exempts			
sau_exempt *sau_exemptions;	array of exemptions			
exempt_type;	reason for exemption			

Table 4-17 Tax Data Structure				
inv_no;	Invoice number, user defined			
srv_lvl_no;	Service level number, user defined			
optional;	user defined value for reporting			
cust_no[CUST_NO_SIZE];	user defined customer number			
company_identifier[CO_IDENTIFIER_SIZE];	company identifier			
opt_alpha_1[CUST_NO_SIZE];	optional alpha field			
opt_4;	optional numeric field			
opt_5;	optional numeric field			
opt_6;	optional numeric field			
opt_7;	optional numeric field			
opt_8;	optional numeric field			
opt_9;	optional numeric field			
opt_10;	optional numeric field			

4.4.4 Transaction and Service Types (Sales and Use)

The transaction/service types to be used are identified here.

	Table 4-18 Transaction and Service Types				
IDENTIFIER		214245	DESCRIPTION		
Trans Type	Svc Type	NAME	DESCRIPTION		
24	491	Software/Canned Software	Software written for multiple users. Transferable to the computer by physical means which the customer retains.		
24	492	Software/Modified Charges	Charges to modify canned software for a specific user.		
24	493	Software/Modified Software	Software modified for a specific purpose for a specific user. Transferable to the computer by physical means, which the customer retains		
24	494	Software/Custom Software	Software written for a specific purpose for a specific user. Transferable to the computer by physical means which the customer retains		
24	495	Software/Canned Software-Load and Leave	Software written for multiple users. Transferable to the computer by physical means which the software provider retains after installation.		
24	496	Software/Custom Software-Load and Leave	Software written for a specific purpose for a specific user. Transferable to the computer by physical means which the software provider retains after installation.		
24	497	Software/Licensed Software-Load and Leave	An agreement for the use of software for a specified period. Transferable to the computer by physical means which the software provider retains after installation.		

	Table 4-18 Transaction and Service Types					
IDENTIFIER		NAME				
Trans Type	Svc Type	NAME	DESCRIPTION			
24	498	Software/Modified Software-Load and Leave	Software modified for a specific purpose for a specific user. Transferable to the computer by physical means which the software provider retains after installation.			
24	499	Software/Downloaded Custom Software	Software written for a specific purpose for a specific user. Transferable to the computer by electronic means.			
24	500	Software/Downloaded Canned Software	Software written for multiple users. Transferable to the computer by electronic means.			
24	501	Software/Licensed Software- Download	An agreement for the use of software for a specified period. Transferable to the computer by electronic means.			
24	502	Software/Modified Software- Download	Software modified for a specific purpose for a specific user. Transferable to the computer by electronic means.			
24	503	Software/Software Set Up-Optional- Canned	Charges for the set up and installation of software into the purchaser's equipment. Covering pre-written software transferred by physical means that is retained by the user. The user has the option of installing the software themselves.			
24	504	Software/Software Set Up-Optional- Custom	Charges for the set up and installation of software into the purchaser's equipment. This covers custom software no matter the means transferred. The user has the option of installing the software themselves.			
24	505	Software/Software Set Up-Optional- Downloaded	Charges for the set up and installation of software into the purchaser's equipment. Covering pre-written software transferred by electronic means. The user has the option of installing the software themselves.			
24	506	Software/Software Set Up-Optional- Load and Leave	Charges for the set up and installation of software into the purchaser's equipment. Covering pre-written software transferred by physical means that is retained by the seller. The user has the option of installing the software themselves.			

Table 4-18 Transaction and Service Types					
IDENTIFIER		NAME	DESCRIPTION		
Trans Type	Svc Type	NAIVIE	DESCRIPTION		
24	507	Software/Software Set Up-Optional- Modified	Charges for the set up and installation of software into the purchaser's equipment. Covering modified software transferred by physical means that is retained by the user. The user has the option of installing the software themselves.		
24	508	Software/Software Set Up- Mandatory-Canned	Charges for the set up and installation of software into the purchaser's equipment. Covering pre-written software transferred by physical means that is retained by the user. The user does not have the option of installing the software themselves.		
24	509	Software/Software Set Up- Mandatory-Custom	Charges for the set up and installation of software into the purchaser's equipment. This covers custom software no matter the means transferred. The user does not have the option of installing the software themselves.		
24	510	Software/Software Set Up- Mandatory-Downloaded	Charges for the set up and installation of software into the purchaser's equipment. Covering pre-written software transferred by electronic means. The user does not have the option of installing the software themselves.		
24	511	Software/Software Set Up- Mandatory-Load and Leave	Charges for the set up and installation of software into the purchaser's equipment. Covering pre-written software transferred by physical means that is retained by the seller. The user does not have the option of installing the software themselves.		
24	512	Software/Software Set Up- Mandatory-Modified	Charges for the set up and installation of software into the purchaser's equipment. Covering modified software transferred by physical means that is retained by the user. The user does not have the option of installing the software themselves.		
24	513	Software/Computer Consulting- Optional-Canned	Charges often considered design and planning for software but not to include actual training.		
24	514	Software/Computer Consulting- Mandatory-Canned	Charges often considered design and planning for software but not to include actual training.		

Table 4-18 Transaction and Service Types			
IDEN	TIFIER	NAA 45	DESCRIPTION
Trans Type	Svc Type	NAME	DESCRIPTION
24	515	Software/Computer Consulting- Optional-Custom	Charges often considered design and planning for software but not to include actual training.
24	516	Software/Computer Consulting- Mandatory-Custom	Charges often considered design and planning for software but not to include actual training.
24	517	Software/Computer Consulting- Optional-Downloaded	Charges often considered design and planning for software but not to include actual training.
24	518	Software/Computer Consulting- Mandatory-Downloaded	Charges often considered design and planning for software but not to include actual training.
24	519	Software/Computer Consulting- Optional-Load and Leave	Charges often considered design and planning for software but not to include actual training.
24	520	Software/Computer Consulting- Mandatory-Load and Leave	Charges often considered design and planning for software but not to include actual training.
24	521	Software/Computer Consulting- Optional-Modified	Charges often considered design and planning for software but not to include actual training.
24	522	Software/Computer Consulting- Mandatory-Modified	Charges often considered design and planning for software but not to include actual training.
24	523	Software/Computer Training- Optional-Canned	Charges for training the purchaser on the use of new software. The training is for canned software and the customer has a choice on whether to take the course.
24	524	Software/Computer Training- Mandatory-Canned	Charges for training the purchaser on the use of new software. The training is for canned software and the customer does not have a choice on whether to take the course.
24	525	Software/Computer Training- Optional-Custom	Charges for training the purchaser on the use of new software. The training is for custom software and the customer has a choice on whether to take the course.
24	526	Software/Computer Training- Mandatory-Custom	Charges for training the purchaser on the use of new software. The training is for custom software and the customer does not have a choice on whether to take the course.
24	527	Software/Computer Training- Optional-Downloaded	Charges for training the purchaser on the use of new software. The training is for pre-written software transferred electronically and the customer has a choice on whether to take the course.

Table 4-18 Transaction and Service Types			
IDEN	TIFIER	NAME	DESCRIPTION
Trans Type	Svc Type	NAME	DESCRIPTION
24	528	Software/Computer Training- Mandatory-Downloaded	Charges for training the purchaser on the use of new software. The training is for pre-written software transferred electronically and the customer does not have a choice on whether to take the course.
24	529	Software/Computer Training- Optional-Load and Leave	Charges for training the purchaser on the use of new software. The training is for pre-written software transferred by a medium kept by the purchaser and the customer has a choice on whether to take the course.
24	530	Software/Computer Training- Mandatory-Load and Leave	Charges for training the purchaser on the use of new software. The training is for pre-written software transferred by a medium kept by the purchaser and the customer does not have a choice on whether to take the course.
24	531	Software/Computer Training- Optional-Modified	Charges for training the purchaser on the use of new software. The training is for modified software and the customer has a choice on whether to take the course.
24	532	Software/Computer Training- Mandatory-Modified	Charges for training the purchaser on the use of new software. The training is for modified software and the customer does not have a choice on whether to take the course.
24	556	Software/Licensed Software-Physical Transmission	An agreement for the use of software for a specific period.
24	558	Software/Report-Physical Transmission	A report generated and provided to the end user delivered on CD or paper.
24	637	Software/Remote Access of Software	A service that provides access and use of software that remains in the possession of the seller and is remotely accessed by a customer. If data is manipulated by the software, it is user created data.
25	533	Timesharing/Timesharing - Off-Site Use of CPU - General Rule	Access to computer through a remote terminal that allows computations.
25	534	Timesharing/CPU Located out of State	Access to computer through a remote terminal that allows computations.
25	559	Timesharing/Remote Information Retrieval	Access to a computer through a remote terminal that allows retrieval of stored data created by the user.
25	647	Timesharing/Remote Information Retrieval (Provider Data)	Access to a computer through a remote terminal that allows retrieval of stored data created by the service provider.

Table 4-18 Transaction and Service Types			
IDENTIFIER			
Trans Type	Svc Type	NAME	DESCRIPTION
27	106	Alcohol/General Rule	A fermented drink or a packaged beverage containing alcohol.
27	107	Alcohol/Beverage Above 7% Content by Weight	A fermented drink or a packaged beverage containing alcohol with alcoholic content above 7% by weight.
27	108	Alcohol/Beverage Below 7% Content by Weight	A fermented drink or a packaged beverage containing alcohol with alcoholic content below 7% by weight.
27	109	Alcohol/Mixed Beverage above 7% Content By Weight	A beverage mixed with a beverage containing alcohol with alcoholic content by volume of 7% or more.
27	110	Alcohol/Mixed Beverage below 7% Content By Weight	A beverage mixed with a beverage containing alcohol with alcoholic content by volume of 7% or less.
27	111	Alcohol/Non Mixed Served in Restaurant Above 7%	A fermented drink or a packaged beverage containing alcohol with alcoholic content above 7% by weight served in a restaurant.
27	112	Alcohol/Non Mixed Served in Restaurant Below 7%	A fermented drink or a packaged beverage containing alcohol with alcoholic content below 7% by weight served in a restaurant.
28	106	Beverages/General Rule	Covers all beverages not otherwise specified in this transaction type/service type.
28	113	Beverages/Carbonated Beverages	Non-alcoholic beverage containing carbonation.
28	114	Beverages/Sweetened Carbonated Beverages	Non-alcoholic beverage containing carbonation and sweeteners.
28	115	Beverages/Bottled Water	Packaged beverage consisting of filtered.
28	116	Beverages/Bottled Water - Carbonated and/or Flavored	Packaged water to which carbonation.
28	117	Beverages/Bottled Water-Carbonated and/or Sweetened	Packaged water to which carbonation.
28	118	Beverages/Soft Drinks	A ready-to-use non-alcoholic packaged drink that may or may not be carbonated.
28	119	Beverages/Natural Fruit or Vegetable Juices	Fruit or vegetable juices.
28	120	Beverages/Natural Contents Between 0%-24%	Beverage containing between 0-24% natural fruit or vegetable juice.
28	121	Beverages/Natural Contents Between 25%-49%	Beverage containing less than 25-49% natural fruit or vegetable juice.
28	122	Beverages/Natural Contents Between 50%-69%	Beverage containing less than 50-69% natural fruit or vegetable juice.
28	123	Beverages/Natural Contents Between 70%-100%	Beverage containing less than 70-100% natural fruit or vegetable juice.

Table 4-18 Transaction and Service Types			
IDENTIFIER		NAME	
Trans Type	Svc Type	NAME	DESCRIPTION
28	124	Beverages/Bottled Tea	Beverage generally classified or explicitly presented as tea on the package.
28	125	Beverages/Coffee	Beverage produced from the coffee bean plant.
29	106	Books/General Rule	Books not covered by any other rule.
29	126	Books/Religious	Books containing religious doctrine and study guides for religious topics.
29	127	Books/Educational-Kindergarten Through 12th Grade	Books used specifically for students of kindergarten through the 12th grade
29	128	Books/Educational-College & Trade School	Books used specifically for students of college and trade school.
30	129	Clothing/Everyday	Clothing that is not specialized in use or purpose.
30	130	Clothing/Sporting Activities	Clothing specialized for sports that would not ordinarily be worn in daily activity not including items such as cleats and sporting equipment.
30	131	Clothing/Sporting Equipment	Items not generally considered clothing but is worn on the person for a sporting activity.
30	132	Clothing/Protective	Clothing designed to offer protection in a hazardous environment or activity such as work gloves.
30	133	Clothing/Protective/Manufacturing	Clothing designed to offer protection in a hazardous environment or activity such as work gloves.
30	134	Clothing/Furs	Clothing which contains natural animal hides.
30	135	Clothing/Uniforms	Regulated and required clothing for an organized event i.e. school dress code
30	136	Clothing/Formal or Special Occasion Wear	Clothing worn to formal events.
30	137	Clothing/Costumes	Clothing of a decorative nature worn for special events or holidays.
30	138	Clothing/Accessories	Decorative items such as jewelry
30	139	Clothing/Display Samples	Clothing used to clothe various store displays for promotional purposes. It may be sold later.
30	140	Clothing/Cloth Diapers	Clothing made of cotton used as undergarments.
30	141	Clothing/Clean Room	Clothing specifically designed to assist with a germ free environment in a clean room.
30	142	Clothing/Bathing Caps	Caps normally worn for shower or bathing.
30	143	Clothing/Belt Buckles	A buckle.

Table 4-18 Transaction and Service Types			
IDENTIFIER		NAME	DESCRIPTION
Trans Type	Svc Type	NAME	DESCRIPTION
30	144	Clothing/Bowling Shoes	Shoes used for the sport of bowling and normally only used for that purpose.
30	145	Clothing/Ski Boots	Boots or shoes used for skiing.
30	146	Clothing/Waders	Hip long pants used to stand in a body of water.
30	147	Clothing/Shoe Laces	Laces purchased independently of the shoes
31	106	Drugs/General Rule	Drugs not fitting any of the service types listed below. Commonly referred to as non-prescription drugs not sold over the counter. Does not include drugs for animal use.
31	148	Drugs/Prescription - Legend	Drugs that when dispensed are required to contain a label specifying the drug can only be dispensed by a licensed pharmacist based on a prescription from a physician or health professional. Does not include drugs for animal use.
31	149	Drugs/Prescription - Over the Counter-Human	Drugs
31	150	Drugs/Nonprescription - Over the Counter-Human	Drugs
31	151	Drugs/Prescription - Over the Counter-Animal	Drugs
31	152	Drugs/Nonprescription - Over the Counter-Animal	Drugs
31	153	Drugs/Cough Drops	Drugs commonly referred to as drops used to treat a cold or cold symptoms.
31	154	Drugs/Prescription - Insulin - Human Use	Insulin dispensed by a licensed pharmacist for human use based on a prescription from a physician or health professional for human use.
31	155	Drugs/Nonprescription - Insulin - Human Use	Insulin that may be purchased for human use over-the-counter or without a physician's prescription for human use.
31	156	Drugs/Prescription - Insulin - Animal Use	Insulin dispensed by a licensed pharmacist for animal use based on a prescription from a physician or health professional for animal use.
31	157	Drugs/Nonprescription - Insulin - Animal Use	Insulin that may be purchased for animal use over-the-counter or without a physician's prescription for animal use.
31	158	Drugs/Prescription - Oxygen-Human Use	Oxygen obtained from a licensed pharmacist based on a prescription from a physician or health professional for human use.

Secondary of the New Yorkshill	Table 4-18 Transaction and Service Types			
31 159 Drugs/Nonprescription - Oxygen Medicinal-Human Use Oxygen that may be purchased over-the counter or without a physician's prescription for human use.	IDEN	ΓIFIER	NANAE	DESCRIPTION
Secondary of the New Yorkshill	Trans Type	Svc Type	INAIVIE	DESCRIPTION
31 160 Drugs/Prescription - Oxygen-Animal Use Drugs/Ison or health professional for animal use. Oxygen that may be purchased over-the counter or without a physician's prescription for animal use. Oxygen that may be purchased over-the counter or without a physician's prescription for animal use. Oxygen that may be purchased over-the counter or without a physician's prescription for animal use. Oruge meant for rectal insertion meant for treatment of ailments in that area of the body. Orugs that when dispensed are required to contain a label specifying the drug car only be dispensed by a licensed pharmacist based on a prescription from a physician or health professional for animal use. Orugs that when dispensed are required to contain a label specifying the drug car only be dispensed by a licensed pharmacist based on a prescription from a physician or health professional for human use purchased for use in a hospital. Orugs that when dispensed are required to contain a label specifying the drug car only be dispensed by a licensed pharmacist based on a prescription from a physician or health professional for human use purchased for use in a hospital. Orugs/Presc Sold to Hospitals—Animals Orugs that when dispensed are required to contain a label specifying the drug car only be dispensed by a licensed pharmacist based on a prescription from a physician or health professional for animal use purchased for use in a hospital. Orugs/Presc Sold to Hospitals—Animals Orugs Drugs that when dispensed are required to contain a label specifying the drug car only be dispensed by a licensed pharmacist based on a prescription from a physician or health professional for animal use purchased for use in a hospital. Orugs/Presc Sold to Hospitals—Animals Orugs Sold as a package consisting of both taxable and non taxable drugs. The drugs cannot be taxed separately. Orugs Sold as a package consisting of both taxable and non taxable drugs. Orugs Sold as a package consisting of both taxable and non taxab	31	159		prescription for human use.
Second Programme Second Prog	31	160		pharmacist based on a prescription from a physician or health professional for
31 162 Drugs/Enemas and Suppositories for treatment of ailments in that area of the body. Drugs that when dispensed are required to contain a label specifying the drug car only be dispensed by a licensed pharmacist based on a prescription from a physician or health professional for animal use. 31 164 Drugs/Non-Presc Sold to Hospitals-Human Drugs Drugs that when dispensed are required to contain a label specifying the drug car only be dispensed by a licensed pharmacist based on a prescription from a physician or health professional for an analyse purchased for use in a hospital. Drugs/Presc Sold to Hospitals-Human Drugs Drugs that when dispensed are required to contain a label specifying the drug car only be dispensed for use in a hospital. Drugs Drugs that when dispensed are required to contain a label specifying the drug car only be dispensed by a licensed pharmacist based on a prescription from a physician or health professional for animal use purchased for use in a hospital. Drugs/Presc Sold to Hospitals-Animals Drugs 169 Drugs/Presc Sold to Hospitals-Animals Drugs Drugs sold as a package consisting of both taxable and non taxable drugs. The drugs cannot be taxed separately. Drugs that when dispensed are required to contain a label specifying the drug car only be dispensed by a licensed only be dispensed by	31	161		
to contain a label specifying the drug car only be dispensed by a licensed pharmacist based on a prescription from a physician or health professional for animal use. 31 164 Drugs/Nonprescription-Animal Consumption 31 165 Drugs/Non-Presc Sold to Hospitals-Human 31 166 Drugs/Presc Sold to Hospitals-Human 31 167 Drugs/Non-Presc Sold to Hospitals-Animals 31 168 Drugs/Non-Presc Sold to Hospitals-Animals 31 168 Drugs/Presc Sold to Hospitals-Animals 31 169 Drugs/Taxable and Nontaxable Bundled Together 31 170 Drugs/Free Sample-Human Use Drugs that when dispensed are required to contain a label specifying the drug car only be dispensed by a licensed pharmacist based on a prescription from a physician or health professional for animal use purchased for use in a hospital. Drugs Drugs Sold as a package consisting of both taxable and non taxable drugs. The drugs cannot be taxed separately. Drugs that when dispensed are required to contain a label specifying the drug car only be dispensed by a licensed. Drugs Drugs Sold as a package consisting of both taxable and non taxable drugs. The drugs cannot be taxed separately. Drugs that when dispensed are required to contain a label specifying the drug car only be dispensed by a licensed.	31	162	Drugs/Enemas and Suppositories	for treatment of ailments in that area of
Drugs/Non-Presc Sold to Hospitals-Human 165 Drugs/Non-Presc Sold to Hospitals-Human 166 Drugs/Presc Sold to Hospitals-Human 167 Drugs/Non-Presc Sold to Hospitals-Animals Drugs Drugs/Non-Presc Sold to Hospitals-Animals 167 Drugs/Presc Sold to Hospitals-Animals Drugs Drugs/Presc Sold to Hospitals-Animals 168 Drugs/Presc Sold to Hospitals-Animals Drugs Drugs that when dispensed are required to contain a label specifying the drug car only be dispensed by a licensed pharmacist based on a prescription from a physician or health professional for animal use purchased for use in a hospital. Drugs Drugs/Presc Sold to Hospitals-Animals Drugs Drugs sold as a package consisting of both taxable and non taxable drugs. The drugs cannot be taxed separately. Drugs that when dispensed are required to contain a label specifying the drug car only be dispensed by a licensed Drugs that when dispensed are required to contain a label specifying the drug car only be dispensed by a licensed	31	163		pharmacist based on a prescription from a physician or health professional for
to contain a label specifying the drug car only be dispensed by a licensed pharmacist based on a prescription from a physician or health professional for human use purchased for use in a hospital. 31 166 Drugs/Presc Sold to Hospitals-Human Drugs Drugs hat when dispensed are required to contain a label specifying the drug car only be dispensed by a licensed pharmacist based on a prescription from a physician or health professional for animal use purchased for use in a hospitals-Animals Drugs/Non-Presc Sold to Hospitals-Animals Drugs 31 168 Drugs/Presc Sold to Hospitals-Animals Drugs Drugs sold as a package consisting of both taxable and non taxable drugs. The drugs cannot be taxed separately. Drugs that when dispensed are required to contain a label specifying the drug car only be dispensed by a licensed	31	164	1	Drugs
Drugs/Non-Presc Sold to Hospitals- Animals Drugs/Non-Presc Sold to Hospitals- Animals Drugs/Presc Sold to Hospitals- Animals Drugs/Presc Sold to Hospitals- Animals Drugs/Presc Sold to Hospitals-Animals Drugs Drugs/Presc Sold to Hospitals-Animals Drugs Drugs/Presc Sold to Hospitals-Animals Drugs Drugs Sold as a package consisting of both taxable and non taxable drugs. The drugs cannot be taxed separately. Drugs/Free Sample-Human Use Drugs Drugs that when dispensed are required to contain a label specifying the drug car only be dispensed by a licensed	31	165		pharmacist based on a prescription from a physician or health professional for human use purchased for use in a
Drugs/Non-Presc Sold to Hospitals- Animals Drugs/Non-Presc Sold to Hospitals- Animals Drugs/Presc Sold to Hospitals- Animals Drugs/Presc Sold to Hospitals- Animals Drugs Drugs/Presc Sold to Hospitals-Animals Drugs Drugs Sold as a package consisting of both taxable and non taxable drugs. The drugs cannot be taxed separately. Drugs/Free Sample-Presc-Human Use Drugs that when dispensed are required to contain a label specifying the drug car only be dispensed by a licensed	31	166	Drugs/Presc Sold to Hospitals-Human	Drugs
Drugs/Taxable and Nontaxable Bundled Together Drugs sold as a package consisting of both taxable and non taxable drugs. The drugs cannot be taxed separately. Drugs/Free Sample-Human Use Drugs that when dispensed are required to contain a label specifying the drug car only be dispensed by a licensed	31	167		pharmacist based on a prescription from a physician or health professional for animal use purchased for use in a
both taxable and non taxable drugs. The drugs cannot be taxed separately. 170 Drugs/Free Sample-Human Use Drugs Drugs that when dispensed are required to contain a label specifying the drug car only be dispensed by a licensed	31	168	Drugs/Presc Sold to Hospitals-Animals	_
31 170 Drugs/Free Sample-Human Use Drugs Drugs that when dispensed are required to contain a label specifying the drug car only be dispensed by a licensed	31	169	_	both taxable and non taxable drugs. The
to contain a label specifying the drug car only be dispensed by a licensed	31	170	Drugs/Free Sample-Human Use	
a physician or health professional for human use given away for no cost.	31	171	Drugs/Free Sample- Presc-Human Use	pharmacist based on a prescription from a physician or health professional for
31 172 Drugs/Free Sample-Animal Use Drugs	31	172	Drugs/Free Sample-Animal Use	

Table 4-18 Transaction and Service Types			
IDEN ⁻	TIFIER		25001071011
Trans Type	Svc Type	- NAME	DESCRIPTION
31	173	Drugs/Free Sample-Presc-Animal Use	Drugs that when dispensed are required to contain a label specifying the drug can only be dispensed by a licensed pharmacist based on a prescription from a physician or health professional for animal use given away for no cost.
32	106	Electronic Equipment & Computer Hardware/General Rule	Covers any electronic equipment or computer hardware not otherwise mentioned.
32	174	Electronic Equipment & Computer Hardware/Monitors Less Than 4 Inches	Monitors or Device and Monitors with a viewing screen of less than 4 inches.
32	175	Electronic Equipment & Computer Hardware/Monitors Between 5-14 inches	Monitors or Device and Monitors with a viewing screen of between 5-14 inches.
32	176	Electronic Equipment & Computer Hardware/Monitors Between Than 15-34 Inches	Monitors or Device and Monitors with a viewing screen of between 15-34 inches.
32	177	Electronic Equipment & Computer Hardware/Monitors Greater Than 35 Inches	Monitors or Device and Monitors with a viewing screen of greater than 35 inches.
33	178	Fuel/Unleaded Fuel w/o Excise Tax	Fuel used for motor vehicles that does not contain lead w/o excise tax being paid.
33	179	Fuel/Diesel Fuel w/o Excise Tax	Fuel used for motor vehicles that is classified as a diesel fuel w/o excise tax being paid.
33	180	Fuel/Gasohol w/o Excise Tax	Fuel used for motor vehicles that contains substances commonly known as gasohol w/o excise tax being paid.
33	181	Fuel/Fuel to Common Carriers w/o Excise Tax	Fuel used for motor vehicles that is sold to common carriers w/o excise tax paid.
33	182	Fuel/Fuel-Passenger Common Carrier w/o Excise Tax	Fuel used for motor vehicles that is sold to common carriers who haul 10 or more passengers w/o excise tax paid.
33	183	Fuel/Unleaded Fuel w/Excise Tax	Fuel used for motor vehicles that does not contain lead w/ excise tax being paid.
33	184	Fuel/Diesel Fuel w/Excise Tax	Fuel used for motor vehicles that is classified as a diesel fuel w/ excise tax being paid.
33	185	Fuel/Gasohol w/Excise Tax	Fuel used for motor vehicles that contains substances commonly known as gasohol w/ excise tax being paid.
33	186	Fuel/Fuel to Common Carriers w/Excise Tax	Fuel used for motor vehicles that is sold to common carriers w/ excise tax paid.
33	187	Fuel/Fuel-Passenger Common Carrier w/ Excise Tax	Fuel used for motor vehicles that is sold to common carriers who haul 10 or more passengers w/ excise tax paid.

Table 4-18 Transaction and Service Types			
IDEN	TIFIER	NAME	DESCRIPTION
Trans Type	Svc Type	INAIVIE	DESCRIPTION
33	188	Fuel/Fuel For Off Road Purposes	Fuel used for motor vehicle that are not normally driven on the highway.
33	189	Fuel/Jet Fuel	Fuel used for a machine or device relying on jet propulsion.
33	190	Fuel/Jet FuelCommon Carriers	Fuel used for a machine or device relying on jet propulsion used for interstate transport.
34	106	General Merchandise/General Rule	Any tangible personal property not otherwise considered in any other transaction type/service type.
34	191	General Merchandise/Appliances	Items generally considered to be white goods.
34	192	General Merchandise/Baby Oil	Mineral Oil generally classified as baby oil.
34	193	General Merchandise/US Flag	A piece of cloth of distinctive color and designed as the official flag of the United States.
34	194	General Merchandise/Coins-Work of Art-Pure Metal	Coins consisting of 100% pure bullion. Sold expressly for the artistic value of the medallion or coin.
34	195	General Merchandise/Coins-Foreign Currency-Pure Metal	Coins consisting of 100% pure bullion. Sold expressly as foreign currency on the exchange market.
34	196	General Merchandise/Coins- Collectible-Pure Metal	Coins consisting of 100% pure bullion. Sold expressly as a coin collectible.
34	197	General Merchandise/Coins- Investment Purposes-Pure Metal	Coins consisting of 100% pure bullion. Sold expressly for investment purposes.
34	198	General Merchandise/Coins-Work of Art-90% or Greater	Coins consisting of 90% or greater bullion but is not pure. Sold expressly for the artistic value of the medallion or coin.
34	199	General Merchandise/Coins-Foreign Currency-90% or Greater	Coins consisting of 90% or greater bullion but is not pure. Sold expressly as foreign currency on the exchange market
34	200	General Merchandise/Coins- Collectible-90% or Greater	Coins consisting of 90% or greater bullion but is not pure. Sold expressly as a coin collectible.
34	201	General Merchandise/Coins- Investment Purposes-90% or Greater	Coins consisting of 90% or greater bullion but is not pure. Sold expressly for investment purposes.
34	202	General Merchandise/Coins-Work of Art-Between 80-90%	Coins consisting between 80-90% bullion. Sold expressly for the artistic value of the medallion or coin.
34	203	General Merchandise/Coins-Foreign Currency-Between 80-90%	Coins consisting between 80-90% bullion. Sold expressly as foreign currency on the exchange market
34	204	General Merchandise/Coins- Collectible-Between 80-90%	Coins consisting between 80-90% bullion. Sold expressly as a coin collectible.

	Table 4-18 Transaction and Service Types			
IDEN	TIFIER	NANAE	DESCRIPTION	
Trans Type	Svc Type	NAME	DESCRIPTION	
34	205	General Merchandise/Coins- Investment Purposes-Between 80- 90%	Coins consisting between 80-90% bullion. Sold expressly for investment purposes	
34	206	General Merchandise/Coins-Work of Art-Less Than 80%	Coins consisting less than 80% bullion. Sold expressly for the artistic value of the medallion or coin.	
34	207	General Merchandise/Coins-Foreign Currency-Less Than 80%	Coins consisting less than 80% bullion. Sold expressly as foreign currency on the exchange market.	
34	208	General Merchandise/Coins- Collectible-Less Than 80%	Coins consisting less than 80% bullion. Sold expressly as a coin collectible.	
34	209	General Merchandise/Coins- Investment Purposes-Less Than 80%	Coins consisting less than 80% bullion. Sold expressly for investment purposes.	
34	210	General Merchandise/Uncancelled Stamps-For Collectible Purposes	Stamps not otherwise used for postage purposes sold for the express intention of becoming a collectible for the purchaser.	
34	211	General Merchandise/Cancelled Stamps	Stamps already used for postage purposes that are resold for their collectible value.	
34	212	General Merchandise/Uncancelled Stamps-For Postage Purposes	Stamps expressly used for the delivery of the United States Mail.	
34	213	General Merchandise/Caskets-For Human Remains	Box or Urn used to hold the remains of a departed human individual.	
34	214	General Merchandise/Burial Vaults- For Human Remains	A vault used to hold and protect the casket or urn from the elements. This vault is designed exclusively for containing human remains.	
34	215	General Merchandise/Caskets-For All Other Remains	Box or Urn used to hold the remains of any being other than a human.	
34	216	General Merchandise/Burial Vaults- For All Other Remains	A vault used to hold and protect the casket or urn from the elements. The vault's casket or urn does not contain human remains.	
34	217	General Merchandise/Headstone/Burial Marker-w/o Installation	A headstone or marker to be placed at the burial site of the decedent. The transaction did not include the actual placement of the marker in the ground.	
34	218	General Merchandise/Headstone/Burial Marker-w/ Installation	A headstone or marker to be placed at the burial site of the decedent. The transaction included the actual placement of the marker in the ground.	
34	219	General Merchandise/Sanitary Napkins or Tampons	Items used to absorb menstrual flow during a menstrual cycle.	
34	220	General Merchandise/Other State Flag	A piece of cloth of distinctive color and designed as a flag of any state other than the home based state where the instance of tax occurs.	

Table 4-18 Transaction and Service Types			
IDEN	TIFIER		
Trans Type	Svc Type	NAME	DESCRIPTION
34	221	General Merchandise/Home State Flag	A piece of cloth of distinctive color and designed as the official flag of the home based state where the instance of tax occurs.
34	222	General Merchandise/POW Flag	A piece of cloth of distinctive color and designed as the official flag of the POW movement.
34	223	General Merchandise/Grooming and Hygiene Products for Human Use	Soaps and cleaning solutions.
34	224	General Merchandise/Grooming and Hygiene Products for Animal Use	Soaps and cleaning solutions.
34	225	General Merchandise/Toothpaste, Toothbrush, Dental Floss	Toothbrush
34	226	General Merchandise/Gaming Coins- Metal Content is Greater than 80%	Coins consisting greater than 80% bullion. Sold expressly for using in gaming machines for the purposes of gambling.
34	227	General Merchandise/Gaming Coins- Metal Content is Less than 80%	Coins consisting less than 80% bullion. Sold expressly for using in gaming machines for the purposes of gambling.
34	228	General Merchandise/Marine Equipment	Equipment expressly used for the purposes of use in or directly associated with water.
34	229	General Merchandise/Charcoal	A black porous material containing 85 to 98 percent carbon provided by the destructive distillation of wood and used as a fuel.
34	230	General Merchandise/Coupon Books	Books that have coupons enclosed to use as discounts at various establishments.
34	231	General Merchandise/Supplies and Food for Seeing Eye Dog	Supplies and food used exclusively by a seeing eye dog. This animal is used to aid the visually impaired with normal life functions.
34	232	General Merchandise/Non-Lead Based Batteries	Batteries
34	574	General Merchandise/Fixture	Tangible personal property that is installed in real property and qualifies as a fixture of the real property.
34	616	General Merchandise/Hurricane Supplies	Supplies used for Hurricane preparedness.
34	617	General Merchandise/School Supplies	Supplies used for school.
34	618	General Merchandise/Appliances- Energy Star	Appliances rated as Energy Star for efficiency.
34	619	General Merchandise/Hunting Supplies	Supplies for Hunting.

Table 4-18 Transaction and Service Types			
IDEN	ΓIFIER		
Trans Type	Svc Type	NAME	DESCRIPTION
34	640	General Merchandise/ Restocking Fee	Fee charged to reimburse the cost of restocking a purchased item. The returned item cannot be modified in any way.
35	106	Groceries/General Rule	Items obtained from a grocery store that may be comprised of items for human consumption.
35	233	Groceries/Candy	Items that do not require additional preparation before consumption such as sweets and confections and are generally high in sugar content.
35	234	Groceries/Chewing Gum	Chewing gum is a type of confectionery which is designed to be chewed rather than swallowed.
35	235	Groceries/Food Additives	An additive meant to preserve food or extend its shelf life.
35	236	Groceries/Confectionary Items	Baked goods and items used in baking.
35	237	Groceries/Ice	Ice for human consumption.
35	238	Groceries/Dietary Supplements- Qualify	Preparations in liquid.
35	239	Groceries/Dietary Supplements-Non Qualify	Preparations in liquid.
35	621	Groceries/Bulk Items	Multi-serving bakery items and single serving bakery items in quantities of three or more.
36	240	Magazines/Retail - Published Monthly	A publication with a soft cover and indexed articles published monthly sold at a newsstand.
36	241	Magazines/Retail - Published Annually	A publication with a soft cover and indexed articles published once a year sold at a newsstand.
36	242	Magazines/Retail - Published Semi- Monthly	A publication with a soft cover and indexed articles published twice per month sold at a newsstand.
36	243	Magazines/Retail - Published Semi- Annually	A publication with a soft cover and indexed articles published twice per year sold at a newsstand.
36	244	Magazines/Retail - Published Quarterly	A publication with a soft cover and indexed articles published every three months sold at a newsstand.
36	245	Magazines/Retail - Published Weekly	A publication with a soft cover and indexed articles published each week sold at a newsstand.
36	246	Magazines/Subscription-Monthly-US Mail	A publication with a soft cover and indexed articles published monthly delivered by Second Class Mail or below.

Table 4-18 Transaction and Service Types			
IDEN ⁻	TIFIER	NAME	DESCRIPTION
Trans Type	Svc Type	NAME	DESCRIPTION
36	247	Magazines/Subscription-Annually- Delivered by US Mail	A publication with a soft cover and indexed articles published once a year delivered by Second Class Mail or below.
36	248	Magazines/Subscription-Semi- Monthly-Delivered by US Mail	A publication with a soft cover and indexed articles published twice per month delivered by Second Class Mail or below.
36	249	Magazines/Subscription-Semi- Annually-Delivered by US Mail	A publication with a soft cover and indexed articles published twice per year delivered by Second Class Mail or below.
36	250	Magazines/Subscription-Quarterly- Delivered by US Mail	A publication with a soft cover and indexed articles published every three months delivered by Second Class Mail or below.
36	251	Magazines/Subscription-Weekly- Delivered by US Mail	A publication with a soft cover and indexed articles published each week delivered by Second Class Mail or below.
36	252	Magazines/Subscription-Monthly-Not Delivered by US Mail	A publication with a soft cover and indexed articles published monthly delivered by means other than Second Class Mail or below. This does not include door to door delivery.
36	253	Magazines/Subscription-Annually-Not Delivered by US Mail	A publication with a soft cover and indexed articles published once a year delivered by means other than Second Class Mail or below. This does not include door to door delivery.
36	254	Magazines/Subscription-Semi- Monthly-Not Delivered by US Mail	A publication with a soft cover and indexed articles published twice per month delivered by means other than Second Class Mail or below. This does not include door to door delivery.
36	255	Magazines/Subscription-Semi- Annually-Not Delivered by US Mail	A publication with a soft cover and indexed articles published twice per year delivered by means other than Second Class Mail or below. This does not include door to door delivery.
36	256	Magazines/Subscription-Quarterly- Not Delivered by US Mail	A publication with a soft cover and indexed articles published every three months delivered by means other than Second Class Mail or below. This does not include door to door delivery.
36	257	Magazines/Subscription-Weekly-Not Delivered by US Mail	A publication with a soft cover and indexed articles published each week delivered by means other than Second Class Mail or below. This does not include door to door delivery.

Table 4-18 Transaction and Service Types				
IDENTIFIER		NA. 45	DESCRIPTION	
Trans Type	Svc Type	NAME	DESCRIPTION	
36	258	Magazines/Subscription-Monthly- Door to Door Delivery	A publication with a soft cover and indexed articles published monthly delivered by hand delivery.	
36	259	Magazines/Subscription-Annually- Door to Door Delivery	A publication with a soft cover and indexed articles published once a year delivered by hand delivery.	
36	260	Magazines/Subscription-Semi- Monthly-Door to Door Delivery	A publication with a soft cover and indexed articles published twice per month delivered by hand delivery.	
36	261	Magazines/Subscription-Semi- Annually-Door to Door Delivery	A publication with a soft cover and indexed articles published twice per year delivered by hand delivery.	
36	262	Magazines/Subscription-Quarterly- Door to Door Delivery	A publication with a soft cover and indexed articles published every three months delivered by hand delivery.	
36	263	Magazines/Subscription-Weekly-Door to Door Delivery	A publication with a soft cover and indexed articles published each week delivered by hand delivery.	
36	361	Magazines/Digital Product – Retail	A magazine publication transveyed electronically and sold online on a per copy basis.	
36	362	Magazines/Digital Product – Subscription	A magazine publication transveyed electronically and sold online as part of a subscription to the magazine.	
37	264	Manufacturing/Equipment-Existing Facilities	Machinery and equipment used to manufacture items that will ultimately be sold at retail that are installed at an existing plant or facility. This is usually a like-kind replacement of existing equipment.	
37	265	Manufacturing/Equipment-Economic Expansion of Facilities	Machinery and equipment used to manufacture items that will ultimately be sold at retail that are installed at an existing plant or facility. The additional equipment is used to increase output or to produce a new product.	
37	266	Manufacturing/Equipment-Physical Expansion of Facilities	Machinery and equipment used to manufacture items that will ultimately be sold at retail that are installed due to an enlargement of an existing plant or facility.	
37	267	Manufacturing/Equipment-New Facilities	Machinery and equipment used to manufacture items that will ultimately be sold at retail that are installed at a new plant or facility.	

Table 4-18 Transaction and Service Types				
IDENTIFIER			DESCRIPTION	
Trans Type	Svc Type	NAME	DESCRIPTION	
37	268	Manufacturing/Repair parts-Existing Facilities	Repair parts for machinery and equipment used to manufacture items that will ultimately be sold at retail that are installed at an existing plant or facility. The parts are used to maintain existing equipment.	
37	269	Manufacturing/Repair Parts-Economic Expansion	Repair or replacement parts acquired at the time machinery and equipment used to manufacture items that will ultimately be sold at retail is purchased and installed at an existing plant or facility. The additional equipment is used to increase output or to produce a new product.	
37	270	Manufacturing/Repair Parts-Physical Expansion	Repair or replacement parts acquired at the time machinery and equipment used to manufacture items that will ultimately be sold at retail that is acquired and installed due to an enlargement of an existing plant or facility.	
37	271	Manufacturing/Repair Parts-New Facilities	Repair or replacement parts acquired at the time machinery and equipment used to manufacture items that will ultimately be sold at retail that are installed at a new plant or facility.	
37	272	Manufacturing/Repair Labor- Separately Stated	Labor charge for the repair of manufacturing machinery and equipment that is listed as a separate line item on the bill or invoice.	
37	273	Manufacturing/Repair Labor-Not Separately Stated	Labor charge for the repair of manufacturing machinery and equipment that is not listed separately from the repair parts and supplies on the bill or invoice.	
37	274	Manufacturing/Installation Labor- Equipment-Separately Stated	Labor charge for the installation of manufacturing machinery and equipment that is listed as a separate line item on the bill or invoice.	
37	275	Manufacturing/Installation Labor- Equipment-Not Separately Stated	Labor charge for the installation of manufacturing machinery and equipment specific to automotive manufacturing that is listed separately from the repair parts and supplies on the bill or invoice.	
37	276	Manufacturing/Automobile Specific - Equipment-Separately Stated	Machinery and equipment used to manufacture automobiles that will ultimately be sold at retail that are installed at a new plant or facility.	

Table 4-18 Transaction and Service Types			
IDEN ⁻	TIFIER		DESCRIPTION
Trans Type	Svc Type	NAME	DESCRIPTION
37	277	Manufacturing/Outside Installation Labor-Equip-Separately Stated	Labor charge for the installation of manufacturing machinery and equipment by a third party that is listed as a separate line item on the bill or invoice.
37	278	Manufacturing/Repair Equipment- Separately Stated	Equipment used to repair manufacturing machinery and equipment.
37	279	Manufacturing/Replacement Equipment-Separately Stated	Equipment used to replace machinery and equipment used to manufacture items that will ultimately be sold at retail that are installed at an existing plant or facility.
37	280	Manufacturing/Clean room Equipment	Machinery and equipment used to manufacture items that will ultimately be sold at retail that is installed in a clean room environment.
37	281	Manufacturing/Environmental Control Equip	Machinery and equipment used to control environmental harm done by the manufacturing process.
37	282	Manufacturing/Safety Equip	Machinery and equipment used to enhance the safety of the plant workers encountered by the manufacturing process.
37	283	Manufacturing/Packing & Shipping Equip	Machinery and equipment used to package the finished manufactured product.
37	284	Manufacturing/Intraplant Equip	Machinery and equipment used to take materials from various points in the plant.
37	285	Manufacturing/Hand Tools	Tools operated by hand used in the manufacturer of products.
37	286	Manufacturing/Warehouse Equipment	Equipment used in the storage of items to be withdrawn later for sale.
38	287	Medical Durable Equipment/Not Home Use-Without A Prescription	Medical Equipment that can withstand repeated use and is sold without a prescription. The equipment is not for use in the home by the patient.
38	288	Medical Durable Equipment/Not Home Use-With A Prescription	Medical Equipment that can withstand repeated use and is sold with a prescription. The equipment is not for use in the home by the patient.
38	289	Medical Durable Equipment/Not Home Use-Paid For By Medicare	Medical Equipment that can withstand repeated use and is sold without a prescription but is medically necessary. The equipment is not for use in the home by the patient. The equipment is paid for directly but Medicare.

Table 4-18 Transaction and Service Types			
IDEN	TIFIER	NAME	DESCRIPTION
Trans Type	Svc Type	NAIVIE	DESCRIPTION
38	290	Medical Durable Equipment/Not Home Use-Reimbursed By Medicare	Medical Equipment that can withstand repeated use and is sold without a prescription but is medically necessary. The equipment is not for use in the home by the patient. The price of the equipment is reimbursed to the purchaser but Medicare.
38	291	Medical Durable Equipment/Not Home Use-Paid For By Medicaid	Medical Equipment that can withstand repeated use and is sold without a prescription but is medically necessary. The equipment is not for use in the home by the patient. The equipment is paid for directly but Medicaid.
38	292	Medical Durable Equipment/Not Home Use-Reimbursed By Medicaid	Medical Equipment that can withstand repeated use and is sold without a prescription but is medically necessary. The equipment is not for use in the home by the patient. The price of the equipment is reimbursed to the purchaser but Medicaid.
38	293	Medical Durable Equipment/Home Use-Without A Prescription	Medical Equipment that can withstand repeated use and is sold without a prescription. The equipment is for use in the home by the patient.
38	294	Medical Durable Equipment/Home Use-With A Prescription	Medical Equipment that can withstand repeated use and is sold with a prescription. The equipment is for use in the home by the patient.
38	295	Medical Durable Equipment/Home Use-Paid For By Medicare	Medical Equipment that can withstand repeated use and is sold without a prescription but is medically necessary. The equipment is for use in the home by the patient. The equipment is paid for directly by Medicare.
38	296	Medical Durable Equipment/Home Use-Reimbursed By Medicare	Medical Equipment that can withstand repeated use and is sold without a prescription but is medically necessary. The equipment is for use in the home by the patient. The price of the equipment is reimbursed to the purchaser by Medicare.
38	297	Medical Durable Equipment/Home Use-Paid For By Medicaid	Medical Equipment that can withstand repeated use and is sold without a prescription but is medically necessary. The equipment is for use in the home by the patient. The equipment is paid for directly by Medicaid.

Table 4-18 Transaction and Service Types			
IDEN	TIFIER	NAME OF	DESCRIPTION
Trans Type	Svc Type	NAME	DESCRIPTION
38	298	Medical-DurableEquipment-Home Use-Reimbursed By Medicaid	Medical Equipment that can withstand repeated use and is sold without a prescription but is medically necessary. The equipment is for use in the home by the patient. The price of the equipment is reimbursed to the purchaser by Medicaid.
39	299	Medical Mobility Enhancing Equipment/Equip Without a Prescription	Equipment used to enhance the mobility of the patient using the device. The equipment is used without a prescription but is medically necessary.
39	300	Medical Mobility Enhancing Equipment/Equip With a Prescription	Equipment used to enhance the mobility of the patient using the device. The equipment is used with a prescription.
39	301	Medical Mobility Enhancing Equipment/Equip Paid for by Medicare	Equipment used to enhance the mobility of the patient using the device. The equipment is used without a prescription but is medically necessary. The equipment is paid for directly by Medicare to the vendor.
39	302	Medical Mobility Enhancing Equipment/Equip Reimbursed by Medicare	Equipment used to enhance the mobility of the patient using the device. The equipment is used without a prescription but is medically necessary. The equipment price is reimbursed to the user by Medicare for the purchase.
39	303	Medical Mobility Enhancing Equipment/Equip Paid for by Medicaid	Equipment used to enhance the mobility of the patient using the device. The equipment is used without a prescription but is medically necessary. The equipment is paid for directly by Medicaid to the vendor.
39	304	Medical Mobility Enhancing Equipment/Equip Reimbursed by Medicaid	Equipment used to enhance the mobility of the patient using the device. The equipment is used without a prescription but is medically necessary. The equipment price is reimbursed to the user by Medicaid for the purchase.
40	305	Medical Prosthetic Devices/General- Without a Prescription	A device to replace.
40	306	Medical Prosthetic Devices/General- With a Prescription	A device to replace.
40	307	Medical Prosthetic Devices/General- Paid for by Medicare	A device to replace.
40	308	Medical Prosthetic Devices/General- Reimbursed by Medicare	A device to replace.
40	309	Medical Prosthetic Devices/General- Paid for by Medicaid	A device to replace.

Table 4-18 Transaction and Service Types			
IDEN ⁻	ΓIFIER	NAME	DESCRIPTION
Trans Type	Svc Type	NAIVIE	DESCRIPTION
40	310	Medical Prosthetic Devices/General- Reimbursed by Medicaid	A device to replace.
40	311	Medical Prosthetic Devices/Corrective Eyeglasses-Without a Prescription	Corrective eyeglasses.
40	312	Medical Prosthetic Devices/Corrective Eyeglasses-With a Prescription	Corrective eyeglasses.
40	313	Medical Prosthetic Devices/Corrective Eyeglasses-Paid for by Medicare	Corrective eyeglasses.
40	314	Medical Prosthetic Devices/Corrective Eyeglasses-Reimbursed by Medicare	Corrective eyeglasses.
40	315	Medical Prosthetic Devices/Corrective Eyeglasses-Paid for by Medicaid	Corrective eyeglasses.
40	316	Medical Prosthetic Devices/Corrective Eyeglasses-Reimbursed by Medicaid	Corrective eyeglasses.
40	317	Medical Prosthetic Devices/Contact Lenses-Without a prescription	Contact lenses that enhance ones vision. Purchased without a prescription but is medically necessary.
40	318	Medical Prosthetic Devices/Contact Lenses-With a prescription	Contact lenses that enhance ones vision. Purchased with a prescription.
40	319	Medical Prosthetic Devices/Contact Lenses-Paid for by Medicare	Contact lenses that enhance ones vision. Purchased without a prescription but is medically necessary. Item is directly paid by Medicare.
40	320	Medical Prosthetic Devices/Contact Lenses-Reimbursed by Medicare	Contact lenses that enhance ones vision. Purchased without a prescription but is medically necessary. Patient is reimbursed by Medicare for the cost of the item.
40	321	Medical Prosthetic Devices/Contact Lenses-Paid for by Medicaid	Contact lenses that enhance ones vision. Purchased without a prescription but is medically necessary. Item is directly paid by Medicaid.
40	322	Medical Prosthetic Devices/Contact Lenses-Reimbursed by Medicaid	Contact lenses that enhance ones vision. Purchased without a prescription but is medically necessary. Patient is reimbursed by Medicaid for the cost of the item.
40	323	Medical Prosthetic Devices/Hearing Aids-Without a Prescription	Aids that enhance one's ability to decipher sound. Purchased without a prescription but is medically necessary.
40	324	Medical Prosthetic Devices/Hearing Aids-With a Prescription	Aids that enhance one's ability to decipher sound. Purchased with a prescription.
40	325	Medical Prosthetic Devices/Hearing Aids-Paid for by Medicare	Aids that enhance one's ability to decipher sound. Purchased without a prescription but is medically necessary. Item is directly paid by Medicare.

Table 4-18 Transaction and Service Types			
IDEN ⁻	ΓIFIER		
Trans Type	Svc Type	NAME	DESCRIPTION
40	326	Medical Prosthetic Devices/Hearing Aids-Reimbursed by Medicare	Aids that enhance one's ability to decipher sound. Purchased without a prescription but is medically necessary. Patient is reimbursed by Medicare for the cost of the item.
40	327	Medical Prosthetic Devices/Hearing Aids-Paid for by Medicaid	Aids that enhance one's ability to decipher sound. Purchased without a prescription but is medically necessary. Item is directly paid by Medicaid.
40	328	Medical Prosthetic Devices/Hearing Aids-Reimbursed by Medicaid	Aids that enhance one's ability to decipher sound. Purchased without a prescription but is medically necessary. Patient is reimbursed by Medicaid for the cost of the item.
40	329	Medical Prosthetic Devices/Dental Prosthesis-Without a prescription	A dental device to replace.
40	330	Medical Prosthetic Devices/Dental Prosthesis-With a prescription	A dental device to replace.
40	331	Medical Prosthetic Devices/Dental Prosthesis-Paid for by Medicare	A dental device to replace.
40	332	Medical Prosthetic Devices/Dental Prosthesis-Reimbursed by Medicare	A dental device to replace.
40	333	Medical Prosthetic Devices/Dental Prosthesis-Paid for by Medicaid	A dental device to replace.
40	334	Medical Prosthetic Devices/Dental Prosthesis-Reimbursed by Medicaid	A dental device to replace.
41	106	Motor Vehicles/General Rule	Motorized vehicles used to transport people or product on roadways.
41	335	Motor Vehicles/Low Emission Vehicle exceeding 10,000 lbs	Motorized vehicles used to transport people or product on roadways, waterways, railways or airspace. Vehicles are over 10,000 lbs and exceed EPA low emission standard.
41	336	Motor Vehicles/Vehicles sold to Native Americans	Motorized vehicles used to transport people or product on roadways.
41	337	Motor Vehicles/Motor Vehicles using Alternative Fuels	Motorized vehicles used to transport people or product on roadways.
41	338	Motor Vehicles/Low Speed Electrical Vehicles	Motor vehicles not designed for highway use that cannot exceed 35 MPH.
41	339	Motor Vehicles/Sale to Non-Residents	Motorized vehicles used to transport people or product on roadways
41	340	Motor Vehicles/Trucks - General Rule	Motorized vehicles used to transport product on roadways. Can be a single chassis or a tractor/trailer rig.
41	341	Motor Vehicles/Used in Interstate Commerce	Vehicles used to transport people or product to more than one state.

Table 4-18 Transaction and Service Types			
IDEN	TIFIER	NAME	DESCRIPTION
Trans Type	Svc Type	NAME	DESCRIPTION
41	342	Motor Vehicles/Trailer 13-16.5 Tons- Interstate Commerce	A motor vehicle whose laden gross vehicle weight is between 13 and 16.5 tons and is used to transport people or product to more than one state.
41	343	Motor Vehicles/Tractor Exceeds 16.5 Tons-Interstate Commerce	A motor vehicle whose laden gross vehicle weight exceeds 16.5 tons and is used to transport people or product to more than one state.
41	344	Motor Vehicles/Used as a Contact Carrier	A motor vehicle that is used to transport product for the general public (common carrier) or only for specific entities (contract carrier) and is not classified for interstate commerce.
41	345	Motor Vehicles/Trailer Exceeds 13 Tons-Contract Carrier	A motor vehicle whose laden gross vehicle weight is between 13 and 16.5 tons. Does not cover those classified as common carriers.
41	346	Motor Vehicles/Tractor Exceeds 16.5 Tons-Contract Carrier	A motor vehicle whose laden gross vehicle weight exceeds 16.5 tons. Does not cover those classified as common carriers.
41	347	Motor Vehicles/Motor Boats	A boat propelled by an internal combustion engine.
41	348	Motor Vehicles/Aircraft	A machine or device capable of atmospheric flight.
41	349	Motor Vehicles/Aircraft for Interstate Transport	A machine or device capable of atmospheric flight used for interstate transport.
41	350	Motor Vehicles/Batteries Less than 12 VoltsLead Based	Batteries with 12 volts or less of electrical output.
41	351	Motor Vehicles/Batteries Greater than 12 VoltsLead Based	Batteries with 12 volts or greater of electrical output.
41	352	Motor Vehicles/Motorcycles	A two-wheeled motorized vehicle classified as a motorcycle.
41	353	Motor Vehicles/Mopeds	A two-wheeled motorized vehicle classified as a moped.
41	354	Motor Vehicles/Off-Road Vehicles	Motor vehicles not designed are intended for driving on the highway.
41	355	Motor Vehicles/Snowmobiles	A motor vehicle with ski runners used to navigate in the snow.
41	356	Motor Vehicles/Motor Oil	Oil meant to lubricate the moving parts of a motor.
41	357	Motor Vehicles/Antifreeze	A substance mixed with another liquid to lower that liquids freezing point.
41	358	Motor Vehicles/Boat Motor	A motor used by a boat propelled by an internal combustion engine.
42	359	Newspaper/Retail	A newsprint publication sold at a newsstand.

Table 4-18 Transaction and Service Types			
IDEN	ΓIFIER		
Trans Type	Svc Type	NAME	DESCRIPTION
42	360	Newspaper/CD ROM Microfiche	A newsprint publication sold as microfiche or CD ROM generally for reference purposes.
42	361	Newspaper/Digital Product - Retail	A newsprint publication transveyed electronically and sold online on a per copy basis.
42	362	Newspaper/Digital Product - Subscription	A newsprint publication transveyed electronically and sold online as part of a subscription to the newspaper.
42	363	Newspaper/Subscription Mail	A newsprint publication physically delivered to the subscriber by second class or lower mail.
42	364	Newspaper/Subscription Delivery	A newsprint publication physically delivered to the subscriber not by second class or lower mail.
43	106	Prepared Food/General Rule	Food and drink ready for consumption without further preparation.
43	365	Prepared Food/Food sold by a Food Manufacturer	Food Sold by a seller whose proper primary NAICS classification is manufacturing in sector 311.
43	366	Prepared Food/Food sold in an unheated state	Food for on-site consumption that was presented in an unheated state.
43	367	Prepared Food/Bakery items	Items commonly referred to as confectionary items that are sold for the purposes of on-site consumption.
43	368	Prepared Food/Employee MealsFull Price	Meals furnished for employees by their employer. Meals are priced at retail
43	369	Prepared Food-Employee Meals Reduced Price	Meals furnished for employees by their employer. Meals are priced below retail or at cost.
43	370	Prepared Food/Employee MealsFree to Employees	Meals furnished for employees by their employer. Meals are provided free of charge. Tax measure if needed would be cost
43	371	Prepared Food/Tips - Voluntary	Voluntary
43	372	Prepared Food/Tips - Mandatory	Mandatory
43	373	Prepared Food/Non-Tip Based Service Charge	Charge imposed by the restaurant beyond the remuneration to either the wait staff directly or the payment for food provided.
43	620	Prepared Food/Take and Bake Pizza	Pizza that is not fully baked by the restaurant, but is instead packaged and must be fully baked by the customer outside the Restaurant.
44	106	Rentals & Leasing/General Rule	Items rented from a vendor not otherwise mentioned.

	Table 4-18 Transaction and Service Types			
IDEN ⁻	ΓIFIER			
Trans Type	Svc Type	NAME	DESCRIPTION	
44	374	Rentals & Leasing/Uniform Rental Service	The rental of commercial uniforms. Uniforms are generally cleaned by the linen service and reused.	
44	375	Rentals & Leasing/Automotive Rental- -30 Days or Less	Rental of an automotive vehicle to use as a motor vehicle. The rental period is for 30 days or less.	
44	376	Rentals & Leasing/Automotive Rental- -30-180 Days	Rental of an automotive vehicle to use as a motor vehicle. The rental period is for 30 to 180 days.	
44	377	Rentals & Leasing/Automotive Rental- -180 Days to 1 Year	Rental of an automotive vehicle to use as a motor vehicle. The rental period is for 180 days to 1 year.	
44	378	Rentals & Leasing/Automotive Rental- -1 Year or Greater	Rental of an automotive vehicle to use as a motor vehicle. The rental period is for 1 year or greater.	
44	379	Rentals & Leasing/Automotive Rental- 0-30 Days-Tax Paid	Rental of an automotive vehicle to use as a motor vehicle. The rental period is for 30 days or less. Tax is paid at the purchase of the asset.	
44	380	Rentals & Leasing/Automotive Rental- 31-180 Days-Tax Paid	Rental of an automotive vehicle to use as a motor vehicle. The rental period is for 30 to 180 days. Tax is paid at the purchase of the asset.	
44	381	Rentals & Leasing/Automotive Rental- 180 Days-1 Year-Tax Paid	Rental of an automotive vehicle to use as a motor vehicle. The rental period is for 180 days to 1 year. Tax is paid at the purchase of the asset.	
44	382	Rentals & Leasing/Automotive Rental- Greater than 1 Year-Tax Paid	Rental of an automotive vehicle to use as a motor vehicle. The rental period is for 1 year or greater. Tax is paid at the purchase of the asset.	
44	383	Rentals & Leasing/Lease of Automobile to be registered by lessee	Lease of an automobile to someone who will register the car as if they own it.	
44	384	Rentals & Leasing/Amusement Related Property	Items rented from a vendor meant to be used along with a service meant for the amusement of the vendee	
44	385	Rentals & Leasing/Rentals Incidental to Service	Items that form only a minor part in the performance of the overall service being sold.	
44	386	Rentals & Leasing/Movie Rentals Private UsePhysical Medium	Movies rented for private viewing transveyed by DVD or other physical means.	
44	387	Rentals & Leasing/Movie Rentals Private UseDigital Download	Movies rented for private viewing transveyed by electronic means	
44	388	Rentals & Leasing/Movie RentalsAs part of exhibition to public	Movies rented to movie theatres and the like for exhibition to the public for a fee.	
44	389	Rentals & Leasing/Movie RentalsTo a Television Station	Movies rented to television stations and networks for exhibition to the public.	

Table 4-18 Transaction and Service Types			
IDEN	ΓIFIER	NAME	DESCRIPTION
Trans Type	Svc Type	NAME	DESCRIPTION
45	390	Services Cleaning/Dry Cleaning- Clothing	The cleansing of clothing by means of a nonaqueous substance.
45	391	Services Cleaning/Dry Cleaning-Non Clothing	The cleansing of non clothing items by means of a nonaqueous substance.
45	392	Services Cleaning/Cleaning Services	A fee paid for the service of cleaning a dwelling.
45	393	Services Cleaning/Laundry & Clothing Care-Other Items	The washing
45	394	Services Cleaning/Laundry & Clothing Care-Cloth Diapers	The washing
45	395	Services Cleaning/Laundry & Clothing Care-Coin Operated	The washing
45	396	Services Cleaning/Rug Cleaning off customer premises	Covering the off-site cleaning of rugs that are not affixed to real property. The service must not include any other type of cleaning.
45	397	Services Cleaning/Rug Cleaning on customer premises	Covering the on-site cleaning of rugs that are not affixed to real property. The service must not include any other type of cleaning.
45	398	Services Cleaning/Washing Motor Vehicles	The washing
45	399	Services Cleaning/Washing Motor Vehicles-Coin Operated Device	The washing
45	400	Services Cleaning/Solid Waste Disposal	A charge for the disposal of refuge.
45	401	Services Cleaning/Swimming Pool Services	Charges for cleaning
45	571	Services-Cleaning - Recycling	Charges for recycling
46	402	Services Lodging/Hotel Rooms Less than 28 Days	A charge for lodging not to exceed 28 days.
46	403	Services Lodging/Hotel Rooms 28-29 Days	A charge for lodging to cover a stay between 28 and 30 consecutive days.
46	404	Services Lodging/Hotel Rooms 30-31 Days	A charge for lodging to cover a stay between 30 and 31 consecutive days.
46	405	Services Lodging/Hotel Rooms 32-60 Days	A charge for lodging to cover a stay between 31 and 60 consecutive days.
46	406	Services Lodging/Hotel Rooms 61-90 Days	A charge for lodging to cover a stay between 60 and 90 consecutive days.
46	407	Services Lodging/Hotel Rooms-91-120 Days	A charge for lodging to cover a stay between 90 and 120 consecutive days.
46	408	Services Lodging/Hotel Rooms 121- 180 Days	A charge for lodging to cover a stay between 120 and 180 consecutive days.
46	409	Services Lodging/Hotel Rooms Greater than 180 Days	A charge for lodging to cover a stay greater than 180 consecutive days.
47	410	Services Printing/Photography Services-Labor Only	A fee for photography.

Table 4-18 Transaction and Service Types			
IDEN ⁻	TIFIER	NAME	DESCRIPTION
Trans Type	Svc Type	- NAME	DESCRIPTION
47	411	Services Printing/Photography Services-Labor with pictures	A fee for photography.
47	412	Services Printing/Negative to Standard Sized Pictures-Labor Only	Labor to develop standard sized pictures from negatives. The negatives are provided by the customer.
47	413	Services Printing/Negative to Enlargement Sized Pictures-Labor Only	Labor to enlarge pictures from negatives. The negatives are provided by the customer.
47	414	Services Printing/Printing Services	Charges for printing or imprinting items unto tangible personal property provided directly or indirectly by the customer.
47	415	Services Printing/Copying Services	Charges for duplicating customer provided materials to another document.
48	416	Services Professional/Credit Card Processing Fee-Part of Sale	A fee charged by the vendor to recover credit card processing cost. The fee is charged as part of the sale.
48	417	Services Professional/Credit Card Processing Fee-Separate Sale	A fee charged by the vendor to recover credit card processing cost. The fee is charged as a separate sale.
48	418	Services Professional/Professional Services	A service rendered for a fee in one of the learned professions. This is a default classification and meant to cover any fee not covered in another service type.
48	419	Services Professional/Investigative Services	A fee paid for the service of tracking or closely examining another individual.
48	420	Services Professional/Protection & Security Services	A fee paid for the service of protecting or securing real or tangible personal property.
48	421	Services Professional/Pest Control	A fee paid for the service of eradicating insects or other animals classified as pests in a dwelling.
48	422	Services Professional/Interior Design Services	A fee paid for consulting on changing the interior appearance of a building.
48	423	Services Professional/Skin Alteration & Care	A fee paid for the process of altering or maintaining the skin of a human
48	424	Services Professional/Manicure & Pedicure	A fee paid for cleaning.
48	425	Services Professional/Funeral Services	Fees
48	426	Services Professional/Cosmetic Medical Procedures	A service rendered for a fee in one of the learned professions. This classification covers any procedure involving exterior non-life threatening external procedures mainly done to enhance a person's appearance.

Table 4-18 Transaction and Service Types			
IDEN	ΓIFIER	NAME OF	DESCRIPTION
Trans Type	Svc Type	NAME	DESCRIPTION
48	427	Services Professional/Professional Medical Services	A service rendered for a fee in one of the learned professions. This classification covers any medical procedure not otherwise covered as a cosmetic medical procedure.
48	428	Services Professional/Title	A fee charged to register ownership of real property.
48	429	Services Professional/Dating Service	A service used to facilitate potential personal relationships.
48	430	Services Professional/Escrow	A deposit rendered in good faith to ensure future business transactions.
48	431	Services Professional/Massages	Manipulation of tissues with the hand or an instrument for therapeutic purposes.
48	432	Services Professional/Gift Wrapping	The process of wrapping tangible personal property in order to further conceal its true nature.
48	433	Services Professional/Floral Services	Non-Delivery type services covering the arrangement and consultation concerning floral arrangements and bouquets. This does not cover the floral items themselves.
48	434	Services Professional/Advertising	Fees paid for the services used generally to advertise a company's message in printed form.
48	435	Services Professional/Credit and Reporting Services	Fees paid for the right to obtain and use results from the credit history of individuals and businesses.
48	436	Services Professional/Personnel Services	A service used to facilitate the match of a employer with a suitable employee.
48	437	Services Professional/Lettering Services	Fees paid to attach to signage or a permanent surface letters.
48	438	Services Professional/Collection Services	A service used to help recover back debts due to the collector.
48	439	Services Professional/Background Music Services	Services that provide music for a fee to various businesses to create further ambiance.
48	440	Services Professional/Locksmith Services	Any lock or key related service.
48	441	Services Professional/Lobbying	Services that help facilitate further relationships between their customers and government officials.
48	442	Services Professional/Flight Instruction	Any service covering the instruction on how to fly an airplane.
48	443	Services Professional/Investment Counseling	Services that assist customers in their financial and investment decisions.

Table 4-18 Transaction and Service Types			
IDEN	ΓIFIER	NAME	DESCRIPTION
Trans Type	Svc Type	NAME	DESCRIPTION
48	444	Services Professional/Service Chg. Financial Institution	Fees charged by banks to their customers for services performed by the bank. These fees are generally bank account and ATM charges.
48	445	Services Professional/Tow Service	Service that removes a motor vehicle and relocates that vehicle to another site.
48	446	Services Professional/Taxidermy	A fee charged to prepare.
48	447	Services Professional/Telephone Answering Service	Fee charged to answer phones and take messages on behalf of an individual or business.
48	448	Services Professional/Limousine Service	Rental of a driver and automobile used at the discretion of the customer with the driver retaining the control of the physical asset.
48	449	Services Professional/Architecture	A service rendered for a fee in the learned profession of architecture. Generally this service is used for designing and conceptualizing a future building or expanse.
48	450	Services Professional/Tanning Services	Services used to enhance the physical appearance of an individual through exposure to artificial light.
48	451	Services Professional/Pet Grooming Not done in medical setting	Services covering the cleansing
48	452	Services Professional/Pet Grooming Done in Medical Setting	Services covering the cleansing
48	453	Services Professional/Engraving	Fees paid to etch letters or numbers into tangible personal property.
48	454	Services Professional/House Moving	Labor used to physically move a building intended to become real property from one location to another.
48	455	Services Professional/Counseling	Fee charged for professional mental health counseling.
48	456	Services Professional/Day Care Services	Fee charged for taking care of individuals during the day.
48	457	Services Professional/Investment Commissions	Commissions earned for assisting with direct investment decisions.
48	557	Services-Professional/Information Systems Services	Charge for the manipulation of user's data. This is not to be confused with the transmission of data.
48	458	Services Professional/Sale of Insurance	Premiums for insuring individuals for a specified purpose.
49	459	Services Recreation/Sporting Event with Food or Property	An event generally classified as involving sports with food or property sold on the premises. This does not include boxing

Table 4-18 Transaction and Service Types				
IDEN	ΓIFIER	NAME	DESCRIPTION	
Trans Type	Svc Type	NAME	DESCRIPTION	
49	460	Services Recreation/Sporting Event without Food or Property	An event generally classified as involving sports without food sold on the premises. This does not include boxing	
49	461	Services Recreation/Amusement Park Entry with Food or Property	Generally a place with rides and games of chance with food or property sold on the premises	
49	462	Services Recreation/Amusement Park Entry without Food or Property	Generally a place with rides and games of chance without food or property sold on the premises	
49	463	Services Recreation/Other Amusement Entry with Food or Property	Amusement Events that do not fit the definition of either a sporting event or an amusement park. There is food and/or property sold on the premises. This does not include a fee for admittance to a motion picture.	
49	464	Services Recreation/Other Amusement Entry without Food or Property	Amusement Events that do not fit the definition of either a sporting event or an amusement park. There is not food and/or property sold on the premises. This does not include a fee for admittance to a motion picture.	
49	465	Services Recreation/Admission to Boxing and Wrestling	A fee for an event generally considered to contain boxing and/or wrestling matches sanctioned by the state athletic commission.	
49	466	Services Recreation/Admission to Horse Racing	A fee for an event generally considered to contain horse races sanctioned by the state athletic commission.	
49	467	Services Recreation/Admission to a Motion Picture	A fee for admission to view a motion picture.	
49	468	Services Recreation/Tours for 8-25 people	A fee.	
49	469	Services Recreation/Tours for more than 25 people	A fee.	
49	470	Services Recreation/Tours for 8-25 peopleCommissions	A sales commission for selling a tour of no less than 8 but no more than 25 people.	
49	471	Services Recreation/Tours for more than 25 peopleCommissions	A sales commission for selling a tour for more than 25 people.	
49	472	Services Recreation/Sport -Fitness & Recreation Club	Fitness & Recreation Club	
50	473	Services Repair/Repair Parts - General Rule	Parts used to regain the function of or extend the operational life of an item.	
50	474	Services Repair/Repair and Labor Combined	Transaction combining labor and parts used to regain the function of or extend the operational life of an item.	
50	475	Services Repair/Parts used in Clothing or Shoes	Items used to repair clothing or shoes.	

Table 4-18 Transaction and Service Types				
IDENTIFIER		NAN 45	DESCRIPTION	
Trans Type	Svc Type	- NAME	DESCRIPTION	
50	476	Services Repair/Parts used in repair of Commercial Airplanes	Parts used to regain the function of or extend the operational life of an airplane.	
50	477	Services Repair/Extended Warranty - Repair Parts Used	Repair parts provided under an extended warranty.	
50	478	Services Repair/Extended Warranty - Service Repairs Used	Repair services provided under an extended warranty.	
50	479	Services Repair/Repair Labor - General Rule	Labor used to regain the function of or extend the operational life of an item.	
50	480	Services Repair/Repairs of Clothing	Labor used in repairing clothing.	
50	481	Services Repair/Repair of Railroad Rolling Stock and Engines	Repair of railcars and locomotive engines.	
50	482	Services Repair/Repair of Motor Vehicle	Repair of motorized vehicles used to transport people or product on roadways	
50	483	Services Repair/Shoe Repair and Cleaning	Cleaning and/or repair of items normally worn on the feet of the user.	
50	484	Services Repair/Automotive Painting	Administering paint unto a motor vehicle classified as an automobile.	
50	485	Services Repair/Landscaping & Lawn Care	A fee paid for the alteration or maintenance of any plants.	
50	486	Services Repair/Snow Removal	Labor to remove snow from property.	
50	487	Services Repair/Repair of Commercial Jet Aircraft	Labor used to regain the function of or extend the operational life of an airplane.	
50	488	Services Repair/Jewelry Repair	Labor used to repair jewelry.	
51	489	Services Storage/Storage	A charge for storing tangible personal property.	
51	490	Services Storage/Parking	Charge for the service of providing parking or storage of automobiles.	
52	106	Tires/General Rule	To account for pneumatic devices commonly known as tires.	
53	106	Tobacco/General Rule	Products made from tobacco leaves and processed for uses other than cigarettes.	
53	535	Tobacco/Cigarettes	A slender roll of cut tobacco meant to be smoked. Classified generally as cigarettes as packaged.	
54	536	Tooling/Useful Life Between 12 Months and 3 years	Machining tools with a useful life between twelve months and three years that are used on equipment. Examples are cutting bits and dies.	
54	537	Tooling-Useful Life Between 6-12 /Months	Machining tools with a useful life of six to twelve months that are used on equipment. Examples are cutting bits and dies.	

Table 4-18 Transaction and Service Types				
IDENTIFIER				
Trans Type	Svc Type	NAME	DESCRIPTION	
54	538	Tooling/Useful Life Exceeds 3 years	Machining tools with a useful life of three years or more that are used on equipment. Examples are cutting bits and dies.	
54	539	Tooling/Useful Life Less Than 6 Months	Machining tools with a useful life of less than six months that are used on equipment. Examples are cutting bits and dies.	
55	106	Vending/General Rule	A machine that is operated by coin.	
55	237	Vending/Ice	Ice for human consumption sold from a vending machine.	
55	540	Vending/Candy Sold For \$0.76 or More	Items including chocolate.	
55	541	Vending/Candy Sold For \$0.50 or Less	Items including chocolate.	
55	542	Vending/Candy Between \$0.51 and \$0.75	Items including chocolate.	
55	543	Vending/Chewing Gum Sold For \$0.76 or More	Chewing gum selling for \$0.76 or more.	
55	544	Vending/Chewing Gum Sold For \$0.50 or Less	Chewing gum selling for \$0.50 or less.	
55	545	Vending/Chewing Gum Between \$0.51 and \$0.75	Chewing gum selling between \$.51 and \$.75.	
55	546	Vending/Hot Prepared Food	A machine that is operated by coin.	
55	547	Vending/Carbonated Beverages For \$0.76 or More	A machine that is operated by coin.	
55	548	Vending/Carbonated Beverages For \$0.51 to \$0.75	A machine that is operated by coin.	
55	549	Vending/Carbonated Beverages For \$0.50 or Less	A machine that is operated by coin.	
55	550	Vending/Non-Carbonated Beverages	A machine that is operated by coin.	
55	551	Vending/Hot Beverages	A machine that is operated by coin.	
56	552	Information Services/Public-Physical Transmission	Information Services that is public and making a physical transmission.	
56	553	Information Services/Public-Electronic Transmission	A service providing the passive receipt of information other than financial account or securities trading data to the public by electronic means.	
56	554	Information Services/Private-Physical Transmission	Information Services that is private and making a physical transmission.	
56	555	Information Services/Private- Electronic Transmission	Information Services that is private and making an electronic transmission.	
56	645	Information Services/Public-Elec Trans (Financial & Securities)	A service providing the passive receipt of financial account or securities information to the public by electronic means.	

Table 4-18 Transaction and Service Types				
IDENTIFIER		NAME	DESCRIPTION	
Trans Type	Svc Type	NAIVIE	DESCRIPTION	
57	560	Digital Goods/Download from Internet	The purchase of goods such as music, books, or phone ringtones downloaded from the internet.	
57	561	Digital Goods/Download to Phone	The purchase of goods such as ringtones downloaded to a cell phone.	
57	609	Digital Goods/Streaming Video	The purchase of video via the internet. The purchaser does not retain possession of the video.	
57	633	Digital Goods/Downloaded Video	The purchase of video via the internet.	

4.5 Tax Types

When a transaction is processed through the AFC Engine, a Tax Type is assigned based on the results. The Tax Type is determined by the transaction location and transaction/service pairs provided in the transaction record and is used to accurately describe the exact nature of the tax applied (refer to Table 4-19).

With over 170 Tax Types available, highly detailed and specific tax descriptions are provided for use in taxation disclosure. This is useful in billing and customer service, and simplifies tax compliance filing.

Users can only control the tax types with the Avalara EZdata product (sold separately). AFC allows for a change, referred to as an override (see section 4.1.3), of the rate for a specific tax type and tax level in a specific jurisdiction. When overriding a tax type, the tax type must exist in the jurisdiction where for the override is to be made.

Table 4-19 Tax Types Supported by AFC			
TAX TYPE ID	NAME	DESCRIPTION	
1	Sales Tax	This is a tax on the privilege of purchasing goods and services.	
4	District Tax	District taxes are taxes associated with a particular district. This is typically this is a school district; however it could be a redevelopment, sports entertainment or some other type of district.	
11	Service Tax	This tax is used to fund a service such as the telecommunications relay service for the deaf.	
12	Special Tax	Used to specify a tax that does not fit into a typical category.	
17	Sales Web Hosting	Similar to tax type 1 (Sales Tax) but applies only to web hosting services.	
24	Telecommunications Infrastructure Maintenance Fee	Fee used to fund the maintenance of telecommunications infrastructure (network, switches, etc.).	
32	District Tax (Residential)	Similar to tax type 4 (District Tax) but applies only to a residential customer.	
33	Transit Tax	A specific state, county, district or local tax used to support a transportation district or program. If this is a district program, the boundaries can overlap county and local jurisdictions.	

	Table	e 4-19 Tax Types Supported by AFC
TAX TYPE ID	NAME	DESCRIPTION
42	Sales Tax (Business)	Similar to tax type 1 (Sales Tax) but applies only to a business customer.
49	Use Tax	An ad Val Orem tax on the use, consumption, or storage of tangible property and usually assessed at the same rate as the sales tax of the applicable jurisdiction.
50	Sales Tax (Data)	Similar to tax type 1 (Sales Tax) but applies only on data services.
57	Sales Tax (Interstate)	Similar to tax type 1 (Sales Tax) but applies only on interstate telecom services.
64	Communications Services Tax	A tax on end users who consume communication services.
65	Value Added Tax (VAT)	International based tax on the final consumption of certain goods and services.
66	Goods and Services Tax (GST)	National Canadian VAT on the consumption of goods and services.
67	Harmonized Sales Tax (HST)	Provincial sales tax applied in specific Canadian provinces. Rate is a combination of the provincial sales tax and the national GST.
68	Provincial Sales Tax (PST)	Sales tax applied in various Canadian provinces.
69	Quebec Sales Tax (QST)	Specific sales tax applied only in the province of Quebec, Canada.
94	Crime Control District Tax	A specific district tax that supports a crime control program. This district can overlap county and local jurisdictions.
95	Library District Tax	A specific district tax that supports a library program. This district can overlap county and local jurisdictions.
96	Hospital District Tax	A specific district tax that supports hospital program. This district can overlap county and local jurisdictions.
97	Health Services District Tax	A specific district tax that supports a health services program. This district can overlap county and local jurisdictions.
98	Emergency Services District Tax	A specific district tax that supports an emergency services program. This district can overlap county and local jurisdictions.
99	Improvement District Tax	A specific district tax that supports a public improvement program. This district can overlap county and local jurisdictions.
100	Development District Tax	A specific district tax that supports a development program. This district can overlap county and local jurisdictions.
102	Ambulance District Tax	A specific district tax that supports an ambulance program. This district can overlap county and local jurisdictions.
103	Fire District Tax	A specific district tax that supports a fire district. This district can overlap county and local jurisdictions.
104	Police District Tax	A specific district tax that supports a police district. This district can overlap county and local jurisdictions.
105	Football District Tax	A specific district tax that supports a football program. This district can overlap county and local jurisdictions.
106	Baseball District Tax	A specific district tax that supports a baseball program. This district can overlap county and local jurisdictions.
119	Educational Sales Tax	Sales tax designated specifically for education and reported apart from the general sales tax.
120	Educational Use Tax	Use tax designated specifically for education and reported apart from the general use tax.
124	Convention Center Tax	Sales Tax designated for convention or conference centers.
126	School Board Tax A	Tax to fund School Board. This is typically a Sales Tax. The letter designation is used in compliance reporting.

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	Table	e 4-19 Tax Types Supported by AFC
TAX TYPE ID	NAME	DESCRIPTION
197	Lead Acid Battery Fee	Fee charged to cover the cost involved in the disposing of lead based batteries.
198	Sales Tax-Motor Fuel	Refers to a sales tax rate charged on the sale of motor fuel.
199	Lead Acid Battery Fee-	Fee charged for batteries over a certain pre-described voltage to cover
	Larger Battery	the cost involved in disposing lead based batteries.
200	Sales Tax-Parking	Tax on the fee charged for the parking of motor vehicles.
202	Dry Cleaning Fee	Fee charged on the sale of dry cleaning services.
203	White Goods Tax	A fee applied to the sale of certain appliance and appliance type items to cover the disposal of such items.
204	Sales Tax-Medical Equipment	Sales Tax that applies exclusively to the sale of medical equipment.
205	Electronic Waste Recycling Fee-Small	A fee charged for smaller monitors to cover the disposal of such items.
200	Electronic Waste	A fee charged for certain sized monitors fitting between certain
206	Recycling Fee-Medium	dimensions to cover the disposal of such items.
207	Electronic Waste Recycling Fee-Large	A fee charged for larger monitors to cover the disposal of such items.
208	Alcoholic Beverage Tax	Alcoholic Beverages taxed under a different tax in lieu or in addition to sales tax.
209	Sales Tax-Alcohol	Refers to a sales tax rate charged on the sale of alcohol.
210	Liquor Drink Tax	Applies where there is a distinct rate on the sale of mixed drinks ready for on-site consumption.
243	Solid Waste Collection Tax	Tax on the service of removing solid waste.
273	Sales Tax – Other	Refers to a separate sales tax rate charged on transactions that do not fall into another existing category
279	Education Cess	A tax levied to collect funds for education.
280	Secondary and Higher Education Cess	A tax levied to collect funds for secondary and higher education.
281	Utility Users Tax (Video)	Similar to Tax Type 16 (Utility Users Tax) but applies only on Video services.
294	Oklahoma Sales Tax	Similar to Tax Type 1 (Sales Tax) but applies only in Oklahoma.
296	Premier Resort Area Tax	Similar to Sales Tax (Tax Type 1), but applied only in Premier Resort Areas.
313	NY Sales Tax	Similar to Tax Type 1 (Sales Tax) but applied only in New York.
314	NY Local Transit Tax	Similar to Tax Type 33 (Transit Tax) but applied only in New York.
315	NY Local District Tax	Similar to Tax Type 4 (District Tax) but applied only in New York.
318	Food and Beverage Tax	A rate charged on the sale of food or beverages.
321	Vendor Use Tax	An ad valorem tax on the use, consumption, or storage of tangible property and usually assessed at the same rate as the sales tax of the applicable jurisdiction.
322	District Vendor Use Tax	District taxes are taxes associated with a particular district. Typically this is a school district, however, it could be a redevelopment, sports, entertainment or some other type of district.
323	Special Vendor Use Tax	Used to specify a tax that does not fit into a typical category.
324	Transit Vendor Use Tax	A specific state, county, district or local tax used to support a transportation district or program. If this is a district program, the boundaries can overlap county and local jurisdictions.

	Table	e 4-19 Tax Types Supported by AFC
TAX TYPE ID	NAME	DESCRIPTION
325	Crime Control District	A specific district tax that supports a crime control program. This
323	Vendor Use Tax	district can overlap county and local jurisdictions.
326	Library District Vendor	A specific district tax that supports a library program. This district can
320	Use Tax	overlap county and local jurisdictions.
327	Hospital District Vendor	A specific district tax that supports hospital program. This district can
32,	Use Tax	overlap county and local jurisdictions.
328	Health Services District	A specific district tax that supports a health services program. This
323	Vendor Use Tax	district can overlap county and local jurisdictions.
329	Emergency Services	A specific district tax that supports an emergency services program.
	District Vendor Use Tax	This district can overlap county and local jurisdictions.
330	Improvement District	A specific district tax that supports a public improvement program.
	Vendor Use Tax	This district can overlap county and local jurisdictions.
331	Development District	A specific district tax that supports a development program. This
	Vendor Use Tax	district can overlap county and local jurisdictions.
332	Ambulance District	A specific district tax that supports an ambulance program. This
	Vendor Use Tax	district can overlap county and local jurisdictions.
333	Fire District Vendor Use	A specific district tax that supports a fire district. This district can
	Tax	overlap county and local jurisdictions.
334	Football District Vendor Use Tax	A specific district tax that supports a football program. This district can
	Baseball District Vendor	overlap county and local jurisdictions. A specific district tax that supports a baseball program. This district
335	Use Tax	can overlap county and local jurisdictions.
	Educational Vendor Use	Use tax designated specifically for education and reported apart from
336	Tax	the general use tax.
	School District Vendor	
337	Use Tax	Tax to fund a School District.
		A specific state, county, district or local tax used to support a
338	Advanced Transit Vendor Use Tax	transportation district or program. If this is a district program, the
		boundaries can overlap county and local jurisdictions.
339	Tribal Vendor Use Tax	Use tax imposed by an Indian Tribe.
2.40	Vendor Use Tax-Senior	Similar to tax type 321 (Vendor Use Tax) but only applies to Senior
340	Citizen	Citizens who meet certain age requirements.
2.41	Vendor Use Tax-	Refers to a use tax rate charged on the sale of manufacturing
341	Manufacturing	machinery and other manufacturing related items.
342	Vendor Use Tax- Motor	Refers to a use tax rate charged on the sale of motor vehicles.
342	Vehicles	Refers to a use tax rate charged on the sale of motor vehicles.
343	Vendor Use Tax-Vending	Use Tax that applies to the retail sale of items sold through vending
343	_	machines.
344	Vendor Use Tax- Food	Refers to a rate charged on the sale of food, drugs or beverages.
344	and Drugs	nerers to a rate charged on the sale of 100a, arags of beverages.
345	Vendor Use Tax-	Refers to a rate charged on the sale of food or beverages.
3 13	Food	hereis to a rate sharped on the sale of rood of beverages.
346	Vendor Use Tax-Motor	Refers to a tax rate charged on the sale of motor fuel.
	Fuel	
347	Vendor Use Tax-Parking	Tax on the fee charged for the parking of motor vehicles.
348	Vendor Use Tax-Medical	Tax that applies exclusively to the sale of medical equipment.
	Equipment	
349	Alcoholic Beverage	Alcoholic Beverages taxed under a different tax in lieu of or in addition
	Vendor Use Tax	to sales tax.

	Table	e 4-19 Tax Types Supported by AFC
TAX TYPE ID	NAME	DESCRIPTION
350	Vendor Use Tax-Alcohol	Refers to a sales tax rate charged on the sale of alcohol.
251	Liquor Drink Vendor Use	Applies where there is a distinct rate on the sale of mixed drinks ready
351	Tax	for on-site consumption.
352	Vendor Use Tax-Video	A tax charged on the provision of video services.
252	Premier Resort Area	Similar to Use Tax (Tax Type 49), but applied only in Premier Resort
353	Vendor Use Tax	Areas.
354	NY Transit Vendor Use Tax	Similar to Tax Type 33 (Transit Tax), but applied only in New York.
355	NY District Vendor Use Tax	Similar to Tax Type 4 (District Tax), but applied only in New York.
356	Vendor Use Tax-Food and Beverage	A rate charged on the sale of food or beverages.
357	Consumer Use Tax	An ad valorem tax on the use, consumption, or storage of tangible property and usually assessed at the same rate as the sales tax of the applicable jurisdiction.
358	District Consumer Use Tax	District taxes are taxes associated with a particular district. Typically this is a school district, however, it could be a redevelopment, sports, entertainment or some other type of district.
359	Special Consumer Use Tax	Used to specify a tax that does not fit into a typical category.
360	Transit Consumer Use Tax	A specific state, county, district or local tax used to support a transportation district or program. If this is a district program, the boundaries can overlap county and local jurisdictions.
361	Crime Control District Consumer Use Tax	A specific district tax that supports a crime control program. This district can overlap county and local jurisdictions.
362	Library District Consumer Use Tax	A specific district tax that supports a library program. This district can overlap county and local jurisdictions.
363	Hospital District Consumer Use Tax	A specific district tax that supports hospital program. This district can overlap county and local jurisdictions.
364	Health Services District Consumer Use Tax	A specific district tax that supports a health services program. This district can overlap county and local jurisdictions.
365	Emergency Services District Consumer Use Tax	A specific district tax that supports an emergency services program. This district can overlap county and local jurisdictions.
366	Improvement District Consumer Use Tax	A specific district tax that supports a public improvement program. This district can overlap county and local jurisdictions.
367	Development District Consumer Use Tax	A specific district tax that supports a development program. This district can overlap county and local jurisdictions.
368	Ambulance District Consumer Use Tax	A specific district tax that supports an ambulance program. This district can overlap county and local jurisdictions.
369	Fire District Consumer Use Tax	A specific district tax that supports a fire district. This district can overlap county and local jurisdictions.
370	Football District Consumer Use Tax	A specific district tax that supports a football program. This district can overlap county and local jurisdictions.
371	Baseball District Consumer Use Tax	A specific district tax that supports a baseball program. This district can overlap county and local jurisdictions.
372	Educational Consumer Use Tax	Use tax designated specifically for education and reported apart from the general use tax.

	Table	4-19 Tax Types Supported by AFC
TAX TYPE ID	NAME	DESCRIPTION
373	School District Consumer Use Tax	Tax to fund a School District.
374	Advanced Transit Consumer Use Tax	A specific state, county, district or local tax used to support a transportation district or program. If this is a district program, the boundaries can overlap county and local jurisdictions.
375	Tribal Consumer Use Tax	Use tax imposed by an Indian Tribe.
376	Consumer Use Tax- Senior Citizen	Similar to tax type 321 (Vendor Use Tax) but only applies to Senior Citizens who meet certain age requirements.
377	Consumer Use Tax- Manufacturing	Refers to a use tax rate charged on the sale of manufacturing machinery and other manufacturing related items.
378	Consumer Use Tax- Motor Vehicles	Refers to a use tax rate charged on the sale of motor vehicles.
379	Consumer Use Tax- Vending	Use Tax that applies to the retail sale of items sold through vending machines.
380	Consumer Use Tax-Food and Drugs	Refers to a rate charged on the sale of food, drugs or beverages.
381	Consumer Use Tax-Food	Refers to a rate charged on the sale of food or beverages.
382	Consumer Use Tax- Motor Fuel	Refers to a tax rate charged on the sale of motor fuel.
383	Consumer Use Tax- Parking	Tax on the fee charged for the parking of motor vehicles.
384	Consumer Use Tax- Medical Equipment	Tax that applies exclusively to the sale of medical equipment.
385	Alcoholic Beverage Consumer Use Tax	Alcoholic Beverages taxed under a different tax in lieu of or in addition to sales tax.
386	Consumer Use Tax- Alcohol	Refers to a sales tax rate charged on the sale of alcohol.
387	Liquor Drink Consumer Use Tax	Applies where there is a distinct rate on the sale of mixed drinks ready for on-site consumption.
388	Consumer Use Tax-Video	A tax charged on the provision of video services.
389	Premier Resort Area Consumer Use Tax	Similar to Use Tax (Tax Type 49), but applied only in Premier Resort Areas.
390	NY Local Transit Consumer Use Tax	Similar to Tax Type 33 (Transit Tax), but applied only in New York.
391	NY Local District Consumer Use Tax	Similar to Tax Type 4 (District Tax), but applied only in New York.
392	Consumer Use Tax- Food and Beverage	A rate charged on the sale of food or beverages.
395	Business & Occupation Tax-Rent and Royalty	Similar to Business & Occupation Tax (Tax Type 2) but only applied on Rents and Royalties.
396	Business & Occupation Tax-Other Services	Similar to Business & Occupation Tax (Tax Type 2) but only applied to Services.
398	Rural Transportation Authority District Tax	A specific district tax that supports a Rural Transportation Authority.
399	MHA District Tax	A specific district tax that supports a Multi-jurisdictional Housing Authority.

	Table	4-19 Tax Types Supported by AFC
TAX TYPE ID	NAME	DESCRIPTION
	Public Safety	
400	Improvements District Tax	A specific district tax that supports public safety improvements.
401	Mass Transit District Tax	A specific district tax that supports Mass Transit.
402	Metropolitan District Tax	A specific district tax that supports a Metropolitan district.
403	RTA Consumer Use Tax	A specific district tax that supports a Rural Transportation Authority.
404	RTA Vendor Use Tax	A specific district tax that supports a Rural Transportation Authority.
405	MHA Consumer Use Tax	A specific district tax that supports a Multi-jurisdictional Housing Authority.
406	MHA Vendor Use Tax	A specific district tax that supports a Multi-jurisdictional Housing Authority.
407	Mass Transit District Consumer Use Tax	A specific district tax that supports Mass Transit.
408	Mass Transit District Vendor Use Tax	A specific district tax that supports Mass Transit.
412	Education Sales-Vending	An educational sales tax rate that applies to the retail sale of items sold through vending machines.
413	Education Sales-Motor Vehicles	An educational sales tax rate charged on the sale of motor vehicles.
414	Education Use-Motor Vehicles	An educational use tax rate charged on the sale of motor vehicles.
415	Education Consumer Use-Motor Vehicles	An educational use tax rate charged on the sale of motor vehicles.
416	Education Vendor Use- Motor Vehicles	An educational use tax rate charged on the sale of motor vehicles.
417	Education Sales- Manufacturing	An educational sales tax rate charged on the sale of manufacturing machinery and other manufacturing related items.
418	Education Use- Manufacturing	An educational use tax rate charged on the sale of manufacturing machinery and other manufacturing related items.
419	Education Consumer Use - Manufacturing	An educational use tax rate charged on the sale of manufacturing machinery and other manufacturing related items.
420	Education Vendor Use – Manufacturing	An educational use tax rate charged on the sale of manufacturing machinery and other manufacturing related items.
421	Rental Use Tax - Motor Vehicles	Refers to a use tax rate charged on the rental of motor vehicles.
422	Consumer Use Rental Tax - Motor Vehicles	Refers to a use tax rate charged on the rental of motor vehicles.
423	Vendor Use Rental Tax - Motor Vehicles	Refers to a use tax rate charged on the rental of motor vehicles.
431	Commerce Tax	Tax on Gross Revenue for the privilege of engaging in business.
441	PIS	A social contribution tax targeted to finance unemployment insurance and allowance for low paid workers.
442	COFINS	A contribution levied to finance social security, health and social care.
443	ICMS	State tax for goods and services.
449	Rental Tax (Lower Rate)	Similar to Rental Tax (Tax Type 188) but only applied to certain items at a reduced rate.
469	Use Tax (Rental)	Similar to Tax Type 49 (Use Tax) but only applied to rental services.

	Table	4-19 Tax Types Supported by AFC
TAX TYPE ID	NAME	DESCRIPTION
470	Use Tax (Other)	Similar to Tax Type 49 (Use Tax) but only applied to transactions that
		do not fall into another existing tax type. Generally transactions return
		this tax type if a distinct use tax rate applies in a specific jurisdiction or
		on a temporary basis.
471	Consumer Use Tax	Similar to Tax Type 357 (Consumer Use Tax) but only applied to
	(Other)	transactions that do not fall into another existing tax type. Generally
		transactions return this tax type if a distinct consumer use tax rate
		applies in a specific jurisdiction or on a temporary basis.
472	Vendor Use Tax (Other)	Similar to Tax Type 321 (Vendor Use Tax) but only applied to
		transactions that do not fall into another existing tax type. Generally
		transactions return this tax type if a distinct vendor use tax rate applies
		in a specific jurisdiction or on a temporary basis.
492	Statutory Gross Receipts	Similar to Tax Type 14 (Statutory Gross Receipts), but does not include
	NF	Federal USF and Federal FCC Regulatory Fees in the assessment base.
493	PUC Franchise Fee	Similar to Tax Type 9 (P.U.C. Fee) but only applied to video services. This tax
	(Video) NF	does not include Federal USF or Federal FCC Regulatory Fees in the assessment
494	Sales Tax NF	base. Similar to Tax Type 1 (Sales Tax), but does not include Federal USF and Federal
494	Sales Tax INF	FCC Regulatory Fees in the assessment base.
495	District Tax NF	Similar to Tax Type 4 (District Tax), but does not include Federal USF and
.55	2.04.704.74.7	Federal FCC Regulatory Fees in the assessment base.
496	Hospital District Tax NF	Similar to Tax Type 96 (Hospital District Tax), but does not include Federal USF
	·	and Federal FCC Regulatory Fees in the assessment base.
497	Improvement District Tax	Similar to Tax Type 99 (Improvement District Tax), but does not include Federal
	NF	USF and Federal FCC Regulatory Fees in the assessment base.
498	Mass Transit District Tax	Similar to Tax Type 401 (Mass Transit District Tax), but does not include
	NF	Federal USF and Federal FCC Regulatory Fees in the assessment base.
499	Metropolitan District Tax	Similar to Tax Type 402 (Metropolitan District Tax), but does not include
	NF	Federal USF and Federal FCC Regulatory Fees in the assessment base.
500	MHA District Tax NF	Similar to Tax Type 399 (MHA District Tax), but does not include Federal USF
F01	Public Safety	and Federal FCC Regulatory Fees in the assessment base. Similar to Tax Type 400 (Public Safety Improvements District Tax), but does not
501	Improvement District Tax	include Federal USF and Federal FCC Regulatory Fees in the assessment base.
	NF	include reactar ost and reactar techniques by rees in the assessment base.
502	Rural Transportation	Similar to Tax Type 398 (Rural Transportation Authority District Tax), but does
302	Authority District Tax NF	not include Federal USF and Federal FCC Regulatory Fees in the assessment
	Authority district rax ive	base.
503	Transit Tax NF	Similar to Tax Type 33 (Transit Tax), but does not include Federal USF and
		Federal FCC Regulatory Fees in the assessment base.
504	District Consumer Use	Similar to Tax Type 358 (District Consumer Use Tax), but does not include
	Tax NF	Federal USF and Federal FCC Regulatory Fees in the assessment base.
505	Hospital District	Similar to Tax Type 363 (Hospital District Consumer Use Tax), but does not
	Consumer Use Tax NF	include Federal USF and Federal FCC Regulatory Fees in the assessment base.
506	Improvement District	Similar to Tax Type 366 (Improvement District Consumer Use Tax), but does
	Consumer Use Tax NF	not include Federal USF and Federal FCC Regulatory Fees in the assessment
F07	Mass Transit District	base. Similar to Tay Type 407 (Mass Transit District Consumer Use Tay) but does not
507	Mass Transit District	Similar to Tax Type 407 (Mass Transit District Consumer Use Tax), but does not include Federal USF and Federal FCC Regulatory Fees in the assessment base.
F.00	Consumer Use Tax NF	
508	MHA Consumer Use Tax	Similar to Tax Type 405 (MHA Consumer Use Tax), but does not include Federal USF and Federal FCC Regulatory Fees in the assessment base.
	NF	OSI AND LEGITAL FOUNCESHALOLY FEES III LIE ASSESSITETIL DASE.

Table 4-19 Tax Types Supported by AFC						
TAX TYPE ID	NAME	DESCRIPTION				
509	RTA Consumer Use Tax NF	Similar to Tax Type 403 (RTA Consumer Use Tax), but does not include Federal USF and Federal FCC Regulatory Fees in the assessment base.				
510	Transit Consumer Use Tax NF	Similar to Tax Type 360 (Transit Consumer Use Tax), but does not include Federal USF and Federal FCC Regulatory Fees in the assessment base.				
511	District Vendor Use Tax NF	Similar to Tax Type 322 (District Vendor Use Tax), but does not include Federal USF and Federal FCC Regulatory Fees in the assessment base.				
512	Hospital District Vendor Use Tax NF	Similar to Tax Type 327 (Hospital District Vendor Use Tax), but does not include Federal USF and Federal FCC Regulatory Fees in the assessment base.				
513	Improvement District Vendor Use Tax NF	Similar to Tax Type 330 (Improvement District Vendor Use Tax), but does not include Federal USF and Federal FCC Regulatory Fees in the assessment base.				
514	Mass Transit District Vendor Use Tax NF	Similar to Tax Type 408 (Mass Transit District Vendor Use Tax), but does not include Federal USF and Federal FCC Regulatory Fees in the assessment base.				
515	MHA Vendor Use Tax NF	Similar to Tax Type 406 (MHA Vendor Use Tax), but does not include Federal USF and Federal FCC Regulatory Fees in the assessment base.				
516	RTA Vendor Use Tax NF	Similar to Tax Type 404 (RTA Vendor Use Tax), but does not include Federal USF and Federal FCC Regulatory Fees in the assessment base.				
517	Transit Vendor Use Tax NF	Similar to Tax Type 321 (Transit Vendor Use Tax), but does not include Federal USF and Federal FCC Regulatory Fees in the assessment base.				
518	State USF (VoIP Alternate) NF	Similar to Tax Type 282 (State USF (VoIP Alternate)) but does not include Federal USF and Federal FCC Regulatory Fees in the assessment base.				
519	E-rate Broadband Program (VoIP Alternate)	Similar to Tax Type 478 (E-rate Broadband Program) but gives the user the ability to report VoIP usage based on actual usage rather than using the Safe Harbor percentage.				
520	ConnectME Fund (VoIP Alternate)	Similar to Tax Type 215 (ConnectME Fund (VoIP) but gives the user the ability to report VoIP usage based on actual usage rather than using the Safe Harbor percentage.				

For the most current list of Tax Types, refer to the EZTaxTaxType.h file located on the most recent Distribution/Update. For .NET users, the tax types are also available in EZTaxConstants.cs. For Java users, the tax types are also available in TaxType.java.

4.6 Nexus

AFC allows a client application to set the nexus information in multiple methods.

- Set the appropriate nexus option in the configuration file (see TM_00548_AFC Configuration Guide). The option specified in the configuration file will automatically be applied to every AFC session as it is initialized. However, this option may be overridden by calling the EZTaxSetNexus API function.
- By EZTaxSetNexus API function.
- By using a nexus_table at the transaction level.
- By EZTaxSetStateNexus API function.

General Usage

When the engine determines there is no nexus for the taxing jurisdiction of the transaction, no taxes will be returned.

If the nexus information has been set by either configuration file or by API call, the transaction level nexus will take precedence.

EZTaxSetNexus allows one call to set all nexus information whereas EZTaxSetStateNexus allows the client application to set each state individually.

By using EZTaxSetNexus with a null pointer and a nexus count of zero, it will reset the AFC engine to default value of nexus in every state.

Nexus is only used within the United States.

4.7 Exclusions

AFC allows a client application to exclude states or countries (and all lower level jurisdictions) from taxation. By using the exclusion option, the client is informing AFC that the specified state or country and all lower jurisdictions are to return no taxes. An excluded state will exempt all state and lower level jurisdiction taxes; however, it will continue to return federal level taxes. An excluded country will exempt all federal and lower level jurisdiction taxes. Exclusions may be accomplished using several methods, such as those listed below:

- Set the appropriate exclusion option in the configuration file (see TM_00548_AFC Configuration Guide). The option specified in the configuration file will automatically be applied to every AFC session as it is initialized. However, this option may be overridden with other API functions.
- Use the **EZTaxSetStateExclusion** API function.
- Use the **EZTaxClearExclusion** API function.

General Usage

When the engine determines that taxes are excluded at the state level for a transaction, only federal level taxes are returned. When the engine determines that taxes are excluded at the federal level, no taxes are returned.

EZTaxClearExclusion will clear all exclusion information and return taxes at every level.

US Territories

US Territory exclusions function like state exclusions and are set and cleared when the federal level USA country code is used without a state or territory. When specified as a state jurisdiction using the two letter state code, ex. 'USA,VI', the exclusion behaves like any other state jurisdiction.

Country codes for US Territories are deprecated.						

5. Utilities

Refer to Figure 5-1. While tax results are typically returned to the billing system using functions, the primary output mechanism of the AFC Engine employs the EZtax Log. The EZTax.log is the link to the outside world. There are twenty-four utilities to choose from, one of which will almost certainly suit your need.

When an AFC session is started with the AFC Initialization Function, the Tax Log is opened if the Tax Log parameter is set to true. This allows the AFC Log to capture the binary formatted transaction and tax data generated by the AFC Engine.

After exiting the AFC session, the AFC Log becomes available for use. This file should be archived by the user for reruns, recovery and auditing purposes. This is accomplished by simply copying the EZTax.log file to a local storage location (refer to Figure 5-1). In most cases this binary file will be used in the future and nearly all of the utilities will delete the contents of the AFC Log upon job completion.

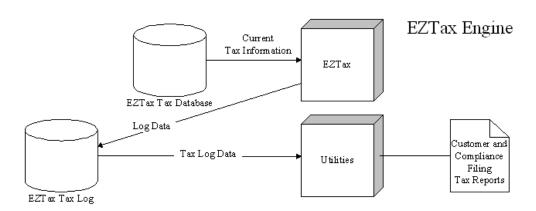


Figure 5-1 AFC Log Data Path

If the Billing System is configured to use the AFC Functions and does not require the logging of data, set the first parameter of the AFC Initialization Function to FALSE to disable transaction logging. For instance, if your program is saving or using the tax data returned to it by the tax calculation functions, you would have no need to use the data in the log file for later processing.

NOTE:

When running AFC in batch fashion the EZTax.log file is always generated.

It is imperative that rigid backup practices are established and followed to avoid losing the transaction and data information created during a session. Most utilities will delete the inputted log file when the utility is finished and backups would be required should reruns be needed.

5.1 Utility Selection

AFC provides utilities for reporting and file management. The latest utilities, along with their file formats, are located on the most current update. AFC has conversion utilities available for converting the tax log file to formats used by compliance services. Contact Avalara for information on converting to specific services.

5.1.1 Reporting Utilities

The reporting utilities are used for customer billing and compliance reporting. They extract specific data from the content rich binary AFC Log file, commonly sorting the data into a logical and orderly format. The resulting output is a flat file containing just the information required for the specific report, compatible with common software such as spreadsheets and databases.

The most common use of this information is to file tax returns. However, other uses may include audit trails, internal tracking and projections.

5.1.1.1 Reporting File Extensions

Refer to Table 5-1. The reporting utility output file extensions are customized to indicate the type of information provided within the file. Note that some utilities may produce more than one type of output file.

Table 5-1 File Extension Definitions						
Log File Extension	Log File Type	File Format	Note			
.csf	Customer Billable amounts	.csf				
.ssf	Tax Compliance amounts	.ssf	This file is not generated when the [-cl] command line option is used.			
.nba	Non-billable amounts for compliance	.ssf	This file is not generated when the [-cl] command line option is used. If there are no non-billable amounts, this file is not created.			
.nca	Non-compliance amounts that were billed	.ssf	This file is generated only if there are transactions in the AFC log that do not require compliance with a jurisdiction.			
.scl	Billable amounts combined with non-billable amounts	.ssf	This file is generated when the [-cl] command line option is used. The .scl file is created instead of the .ssf and .nba files.			

The report file generated by the utility will be formatted as a comma delimited file or fixed field length file depending on the utility used. Refer to the specific utility documentation to determine which formatting will be provided.

Some report utilities provide specialized reports with the file name log.rpt. These comma delimited files are modifications of .csf and .ssf report formats.

Refer to Figure 5-2. For example, the EZLog_NS.exe utility produces a comma-delimited flat file report with an .ssf extension. When this file is copied into a preformatted (headings and column widths preset) MS Excel spreadsheet the following output is displayed. If the spreadsheet had not been preformatted the titles would not be present and the field widths might vary.

Figure 5-2 Sample EZLog NS spreadsheet

Country	State	County	Locality	Tax type	Tax level	Tax rate	Tax amount	Gross sales	Exempt	Adj.	<u>Taxable</u> Measure	<u>Minutes</u>
USA				6	0	0.0300	29,881.87	996,062.25	0	0	996,062.25	14,859,213
USA				7	0	0.0076	10,116.13	1,331,070.00	0	0	1,331,070.00	20,410,578
USA				18	0	0.0314	11,145.49	354,952.00	0	0	354,952.00	5,446,827
USA	AL			16	1	0.0670	969.97	14,477.20	0	0	14,477.20	220,239
USA	ΑZ			1	1	0.0500	0.81	16.12	0	0	16.12	245
USA	ΑZ			10	1	0.0125	9.07	725.47	0	0	725.47	11,038
USA	ΑZ			12	1	0.0110	7.98	725.47	0	0	725.47	11,038
USA	ΑZ	APACHE		1	1	0.0500	0.81	16.12	0	0	16.12	245
USA	ΑZ	APACHE		1	2	0.0270	0.44	16.12	0	0	16.12	245
USA	ΑZ	APACHE	SPRINGERVILLE	1	1	0.0500	0.71	14.11	0	0	14.11	215

5.1.2 File Management Utilities

File management utilities are provided for maintenance purposes, such as combining one or more archived AFC log files or appending one log file to another.

Note that AFC provides the asciilog.exe utility for maintenance of AFC log files. It allows the user to view the unsorted log file as readable ASCII text without deleting the file.

5.2 Specifying a Log File at Run Time

The AFC Log file to be submitted to a utility is specified by the log file name in the Filelocs.txt file (EZTax.log by default). However, this file name will be ignored if a different file name is provided in the AFC Initialization Function at session startup.

The Filelocs.txt contains the file locations for text file contains all of paths to the AFC Data Base files. Each file in the AFC Data base is represented by one line. The lines in the text file must be in the defined order and all files must be represented.

NOTE

Batch utility clients can only use the filelocs.txt file as they will not be using the function programming method.

5.3 Log.sum File

The Log.sum file accumulates tax compliance totals over multiple runs to generate a compilation of the tax totals. It contains a summary of the EZTax.log(s) with the data organized by taxing jurisdictions. Only the EZ* prefix report utilities can be used to generate the log.sum file, which can then be passed as the input to most of the report utilities.

This is a turnaround file used for maintaining one smaller log file rather than multiple log files in cases where the customer billing cycle occurs more frequently than the tax compliance cycle. It carries tax compliance information forward until the report is produced. The srt* utilities use this file for input only.

WARNING

The customer information is lost in the summation of the log.sum. Remember to delete or move this file before running a utility that uses it, if a combined report is not desired.

5.4 General Tips When Using Utilities

AFC is designed to provide optimum flexibility in creating reports. The following tips have been accumulated to assist in making the best use of available options.

- 1. Combining Log Files
- 2. If an AFC log file exists when AFC is run, new tax data will be appended to the end of an existing log file (i.e. not placed into a new log file). Also, log files can be combined prior to passing to a utility, although they cannot be split apart after they are merged.
- 3. The criteria for deciding to combine files is based on how often AFC is run, how big the created log files are and the date cycles of your billing and tax compliance system. Note that most transactions will generate many tax records and that each tax record is either 100 or 168 bytes long, depending on the configuration.
- 4. Many clients use a new log file for each run of AFC to reduce the complexity introduced when a rerun or restart is required.
- 5. Most clients will do all of their customer billing processing within their Function programs and use the log file to process only tax compliance data at a later date.
- 6. Utilities are provided to merge two or more log files into a single log file. This is useful when running reports that reflect the combined data of the individual log files.
- 7. Primarily the srt* utilities will produce files sorted by the jurisdictional level.

- 8. AFC provides the asciilog.exe utility for maintenance of AFC log files, allowing the user to create an ASCII version of the log file.
- 9. Many utilities produce a log.sum file that accumulates tax compliance totals over multiple runs to generate a compilation of the tax totals.
- 10. The pkzip executable option listed with some utilities is only available with the windows platform.

5.5 AFC Utilities

Table 5-2 Utility Summary						
Utility Name	Function	Short Description				
asciilog.exe	File Management	Dumps the contents of the <i>logfilename</i> .log to an ASCII version of the log file				
batch_sau.exe	File Management	File Management Combines the log file with the log.sum (if present) then sorts and combines the data.				
commerge.exe	File Management	Combines the log file with the log.sum (if present) then sorts and combines the data.				
comrp.exe	Reporting	Data formatted to produce a customer information file called ComRPT.ssf.				
comptnum.exe	Reporting	Reads the log file specified in filelocs.txt and produces comma delimited text files <i>outputfilename</i> .ssf, <i>outputfilename</i> .nca, and <i>outputfilename</i> .nba (or a unified file <i>outputfilename</i> .scl) for tax compliance filing.				
csf20.exe	Processing	Reads the log file specified in filelocs.txt. Uses a CDF filename from the command line to name the output files.				
customsort.exe	Reporting	Produces a comma-delimited file for compliance filing. User selects sort criteria and preferences. Refer to the AFC Custom Sort Utility User Manual for more information on this utility.				
ezcomprep.exe	Reporting	Produces a comma-delimited file for compliance filing. Sorting and combining is performed at the jurisdictional level.				
ezlog_ns.exe	Reporting	Produces a comma-delimited file for compliance filing.				
ezlogcust.exe	Reporting	Produces a comma-delimited file for customer billing. Sorting and reporting is done at the customer level.				
ezlogcustios.exe	Reporting	Produces a comma-delimited file for customer billing. Sorting and reporting is done at the customer level.				
ezlogcustpts.exe	Reporting	Produces a comma-delimited file for customer billing. Sorting and reporting is done at the customer level. The sort key also contains PCode, optional, and Service Level Number fields.				
ezlogcustptsInl.exe	Reporting	Produces a comma-delimited file for customer billing. Sorting and reporting is done at the customer level. In addition to the PCode, optional, and Service Level Number fields and the number of lines are also included.				
EZTax_20.exe	Processing	Refer to batchfile processing for details on the Batch processing method.				
EZTaxappend.exe	File Management	Combines two log files.				
EZTaxappendf.exe	File Management	Combines multiple log files.				
log no tax transactions		This is an option in the EZTax.cfg file, placed here as it may effect the output.				
srtcdf20.exe	Reporting	Produces a fixed length text file <i>logfilename</i> .ssf for tax compliance filing and a fixed length text file <i>filename</i> .csf for customer billing.				
srtcdf20p.exe	Reporting	Produces a fixed length text file EZTaxlogfilename.ssf for tax compliance filing and a fixed length text file <i>logfilename</i> .csf for customer billing.				
srtcomcust20.exe	Reporting	Produces a comma delimited text file <i>logfilename</i> .ssf for tax compliance filing and a fixed length text file <i>logfilename</i> .csf for customer billing.				

Table 5-2 Utility Summary						
Utility Name Function		Short Description				
srtcomma20.exe Reporting		Produces a comma delimited text file <i>logfilename</i> .ssf for tax compliance filing and a fixed length text file <i>logfilename</i> .csf for customer billing.				
srtcomma20l.exe Reporting		Produces a comma delimited text file <i>logfilename</i> .ssf for tax compliance filing and a fixed length text file <i>logfilename</i> .csf for customer billing, separating adjustments. The .csf file is used for import into the billing system to populate customer bills. The comma-delimited .ssf file is sorted at the jurisdictional level. The .ssf file also contains the number of lines.				
srtcomma20ld.exe	Reporting	Produces a comma delimited text file <i>logfilename</i> .ssf for tax compliance filing and a fixed length text file <i>logfilename</i> .csf for customer billing.				
srtrev20l.exe Reporting		Produces a comma delimited text file <i>logfilename</i> .ssf for tax compliance filing and a fixed length text file <i>logfilename</i> .csf for customer billing, separating adjustments. The .csf file is used for import into the billing system to populate customer bills. The comma-delimited .ssf file is sorted at the jurisdictional level. The .ssf file also contains the number of lines and the base sale amount. The base sale amount can be included in the csf by command-line option.				
strg.exe	Reporting	Produces a fixed length text file <i>logfilename</i> .ssf for tax compliance filing. If the extra <i>logfilename</i> is specified, it is used for appending instead of the log.sum.				
upsize_log.exe File Management		Converts the short format logfilename1 to a long format log logfilename1.				

5.5.1 asciilog.exe

COMMAND LINE

asciilog logfilename.log <+p> <+tc> <+a> <+h> <-csv> <-?>

DESCRIPTION

The asciilog.exe command dumps the contents of the *logfilename*.log to an ASCII version of the log file. It does not sort or combine records. It produces a file named *logfilename*.txt which is a legible version of the *logfilename*.log data.

INPUT

Log file: logfilename.log file as defined in the command line and is NOT deleted at end of job.

OUTPUT

Comma delimited logfilename.txt or logfilename.csv file.

FILE FORMAT KEY

The contents of the file are highly dependent upon the command line arguments. Use the +h argument to prepend the output with a header row that defines each column.

ARGUMENTS (in any order)

- +p option adds the P-Code to the output, located before the Country for each record
- +tc option adds the tax category description to the end of each record
- +a option outputs all available fields
- +h option prepends the output with a header record
- **-csv** option uses .csv as the extension for easier import to other applications
- -? option displays usage screen and exits

NOTES:

AFC log is NOT deleted.

Also, to have valid values for transaction type and service type, the AFC session that generated the log must have logtransserv=true (ref 7.2.3.8 Log Transaction / Service Types).

5.5.2 batch sau.exe

batch_sau is a Processing Utility used to pass Sales and Use transaction records through the AFC Engine in Batch fashion. Refer to batch file processing for details on the Batch processing method.

5.5.3 commerge.exe

COMMAND LINE

commerge

DESCRIPTION

The commerge.exe command reads the log file specified in filelocs.txt, combines the log file with the log.sum (if present) then sorts and combines the data.

INPUT

Reads the log file as defined by filelocs.txt or AFC Initialization Function. log.sum – optional input from previous run

OUTPUT

No output file is produced as this is a log manipulation utility.

FILE FORMAT KEY

The output file produced is a log file with no format key as this is a log manipulation utility.

ARGUMENTS

None.

NOTES:

The log.sum file is created WARNING - EZTax.log is DELETED. Make backups in case reruns are needed.

SAMPLE DATA

No output file is produced as this is a log manipulation utility.

5.5.4 comptnum.exe

COMMAND LINE

comptnum [-z <pkzip executable>] outputfilename <extralogfilename> [-cl]

DESCRIPTION

The comptnum.exe command reads the log file specified in filelocs.txt and produces comma delimited text files *outputfilename*.ssf, *outputfilename*.nca, and *outputfilename*.nba (or a unified file *outputfilename*.scl) for tax compliance filing.

INPUT

Reads the *logfilename*.log file as defined by filelocs.txt or AFC Initialization Function. log.sum – optional input from previous run.

OUTPUT

Comma Delimited *outputfilename*.ssf (nca, nba, scl) file for tax compliance filing. Sorted and condensed by PCode, Tax Type, Tax Level, Tax Rate

FILE FORMAT KEY

Country, State, County, Locality, PCode, Tax type, Tax Type Description, Tax level, Tax Level Description, Tax rate, Tax amount, Gross Sale, Exempt, Adjustments, Taxable measure, Minutes

Figure 5-3 comptnum SSF File Format Key		
Description	Туре	
Country	Alpha	
State	Alpha	
County	Alpha	
Locality	Alpha	
PCode	Numeric	
Tax Type	Numeric	
Tax Type Description	Alpha	
Tax Level	Numeric	
Tax Level Description	Alpha	
Tax Rate	Numeric	
Tax Amount	Numeric	
Gross Sale	Numeric	
Exempt	Numeric	
Adjustments	Numeric	
Taxable Measure	Numeric	
Minutes	Numeric	
Customer number	Alpha	

- -z <pkzip executable> path to zip executable file*
 <output filename>
 extra log file name use instead of log.sum
 -cl creates a combined compliance log file with a .scl extension, containing both the billable and non-billable amounts instead of a separate log file for each.
- * The pkzip executable option is only available with the windows platform.

NOTES:

- The Tax Rate field is sensitive to positive and negative values
- The log.sum file is NOT created
- WARNING EZTax.log is DELETED. Make backups in case reruns are needed.

SAMPLE DATA

- USA, ..., 0, 6, Federal Excise Tax, 0, Federal, 0.030000, 63.946941, 2131.564739, 0.000000, 0.000000, 2131.564739, 2376516.0,
- USA, CA, ., 253500, 10, E911 Tax, 1, State, 0.006500, 0.450252, 69.269518, 0.000000, 0.000000, 69.269518, 155916.0, 00000000000004302
- $USA, CA, , , 253500, 19, State\ High\ Cost\ Fund, 1, State, 0.024300, 1.607688, 66.159998, 0.000000, 0.000000, 66.159998, 155916.0, 00000000000999999$
- $U, \\ 1SA, CA, , , 253500, 21, CA \ Teleconnect \ Fund, 1, State, 0.001600, 0.105856, 66.159998, 0.000000, 0.000000, 66.159998, 155916.0, Customer \ Number \ 2$
- USA, CA, , , 253500, , 160, CA High Cost Fund A, 1, State, 0.001500, 0.099240, 66.159998, 0.000000, 0.000000, 66.159998, 155916.0, User value here
- $USA, CO, , , 427200, 13, State\ Universal\ Service\ Fund, 1, State, 0.029000, 0.026172, 0.902500, 0.000000, 0.000000, 0.902500, 1920.0, \\ xxxxxxxxxxxxxxx$

5.5.5 comrpt.exe

COMMAND LINE

comrpt [-cl]

DESCRIPTION

The comrpt.exe command reads the log.sum. The data is then formatted to produce a customer information file called *compliance.ssf*.

INPUT

Reads the log.sum file. log.sum – optional input from previous run

OUTPUT

Fixed Length compliance.ssf file.

FILE FORMAT KEY

Figure 5-4 comrpt File Format Key			
Description	Туре	Length	Positions
PCode	Numeric	9	1-9
Tax Type	Numeric	6	10-15
Tax Level	Numeric	1	16
Tax Rate	Numeric	8	17-24
Tax Amount	Numeric	12	25-36
File Record Length		36	

ARGUMENTS

-cl creates a combined compliance log file with a .scl extension, containing both the billable and non-billable amounts instead of a separate log file for each.

NOTES:

None.

5.5.6 csf20.exe

COMMAND LINE

csf20 [-z <pkzip executable>] outputfilename [-cl]

DESCRIPTION

The csf20.exe command is a processing utility that reads the log file specified in filelocs.txt. It produces a fixed length file *outputfilename*.CSF. The command line argument determines the output file name.

INPUT

Reads the log file as defined by filelocs.txt.

OUTPUT

Fixed Length outputfilename.csf file.

FILE FORMAT KEY

Table 5-3 csf20.exe File Format Key			
Description	Type	Length	Positions
Customer Number	A/N	20	1-20
Tax type	A/N	6	21-26
Authority level	A/N	1	27
Tax amount sign	Α	1	28
Tax amount	N	11.5	29-39
File record length		39	

ARGUMENTS

outputfilename

- -z <pkzip executable> path to zip executable file*
- -cl creates a combined compliance log file with a .scl extension, containing both the billable and non-billable amounts instead of a separate log file for each.

NOTES:

EZTax.log is not deleted.

filelocs.txt MUST be in the working directory.

^{*} The pkzip executable option is only available with the windows platform.

5.5.7 customsort.exe

COMMAND LINE

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

DESCRIPTION

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 AFC transaction log, which can be affected by configuration settings in the EZTax.cfg.

INPUT

Reads the log file as defined by filelocs.txt.

OUTPUT

User defined.

ARGUMENTS (in any order)

-cfg customsort.cfg
 -log logfile
 -data <path>
 -work <path>
 : Required. Custom sort configuration to be used.
 : EZTax log file to be processed (DEF: EZTax.log).
 : Data directory; overrides config file value.
 : 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

Refer to the AFC Custom Sort Utility User Manual for more information on this utility.

5.5.8 ezcomprep.exe

COMMAND LINE

ezcomprep [-cl]

DESCRIPTION

The ezcomprep.exe command reads the log file specified in filelocs.txt and produces a commadelimited file for compliance filing. It does not include adjustments as part of Gross Sale. Sorting and combining is performed at the jurisdictional level. It combines the contents of log.sum if it exists.

INPUT

Reads the log file as defined by filelocs.txt or AFC Initialization Function. log.sum – optional input from previous run

OUTPUT

log.sum – sorted and condensed log file as optional input for next run Comma delimited *outputfilename*.rpt file.
Sorted and condensed by PCode, Tax Type, Tax Level, Tax Rate

FILE FORMAT KEY

Country, State, County, Locality, Tax type, Tax level, Tax rate, Tax amount, Gross Sale, Exempt, Adjustments, Taxable measure, Minutes

Figure 5-5 ezcomprep File Format Key		
Description	Type	
Country	Alpha	
State	Alpha	
County	Alpha	
Locality	Alpha	
Тах Туре	Numeric	
Tax Level	Numeric	
Tax Rate	Numeric	
Tax Amount	Numeric	
Gross Sale	Numeric	
Exempt	Numeric	
Adjustments	Numeric	
Taxable Measure	Numeric	
Minutes	Numeric	

-cl creates a combined compliance log file with a .scl extension, containing both the billable and non-billable amounts instead of a separate log file for each.

NOTES:

WARNING - EZTax.log is DELETED. Make backups in case reruns are needed.

SAMPLE DATA

 $\mathsf{USA},\!,\!,\!,6,0,0.030000,29881.866905,996062.252444,0.000000,0.000000,996062.252444,14859213.000000$

5.5.9 ezlog ns.exe

COMMAND LINE

ezlog_ns outputfilename [-cl]

DESCRIPTION

The ezlog_ns.exe command reads the log file specified in filelocs.txt and produces a commadelimited file for compliance filing.

INPUT

Reads the log file name from filelocs.txt. log.sum – optional input from previous run

OUTPUT

log.sum – sorted and condensed log file as optional input for next run Comma delimited *outputfilename*.ssf file.
Sorted and condensed by PCode, Tax Type, Tax Level, Tax Rate

FILE FORMAT KEY

Country, State, County, Locality, Tax type, Tax level, Tax rate, Tax amount, Gross Sale, Exempt, Adjustments, Taxable measure, Minutes

Figure 5-6 ezlog_ns File Format Key		
Description	Туре	
Country	Alpha	
State	Alpha	
County	Alpha	
Locality	Alpha	
Tax Type	Numeric	
Tax Level	Numeric	
Tax Rate	Numeric	
Tax Amount	Numeric	
Gross Sale	Numeric	
Exempt	Numeric	
Adjustments	Numeric	
Taxable Measure	Numeric	
Minutes	Numeric	

ARGUMENTS

outputfilename

-cl creates a combined compliance log file with a .scl extension, containing both the billable and non-billable amounts instead of a separate log file for each.



5.5.10 ezlogcust.exe

COMMAND LINE

ezlogcust [-cl]

DESCRIPTION

The ezlogcust.exe command reads the log file specified in filelocs.txt and produces a commadelimited file for customer billing. Sorting and reporting is done at the customer level.

INPUT

Reads the log file as defined by filelocs.txt or AFC Initialization Function. log.sum – optional input from previous run

OUTPUT

log.sum – sorted and condensed log file as optional input for next run Comma delimited log.rpt file.

Sorted and condensed by Customer Number, PCode, Tax Type, Tax Level, Tax Rate, Calculation Type.

FILE FORMAT KEY

Country, State, County, Locality, Tax type, Tax level, Tax rate, Calculation Type, Tax amount, Gross Sale, Exempt, Adjustments, Taxable measure, Minutes, Lines, Customer Number

Figure 5-7 ezlogcust File Format Key		
Description	Туре	
Country	Alpha	
State	Alpha	
County	Alpha	
Locality	Alpha	
Tax Type	Numeric	
Tax Level	Numeric	
Tax Rate	Numeric	
Calculation Type	Numeric	
Tax Amount	Numeric	
Gross Sale	Numeric	
Exempt	Numeric	
Adjustments	Numeric	
Taxable Measure	Numeric	
Minutes	Numeric	
Lines	Numeric	
Customer Number	Alpha Numeric	

-cl creates a combined compliance log file with a .scl extension, containing both the billable and non-billable amounts instead of a separate log file for each.

NOTES:

WARNING - EZTax.log is DELETED. Make backups in case reruns are needed.

SAMPLE DATA

```
USA, ,,,6,0,0.030000, RATE, 0.892576, 29.752527, 0.000000, 0.000000, 29.752527, 0.000000, 1, 1, 2143278889
USA, TX, , , 9, 1, 0.001670, RATE, 0.049687, 29.752527, 0.000000, 0.000000, 29.752527, 0.000000, 1, 0, 2143278889
USA, TX, , , 13, 1, 0.036000, RATE, 1.035438, 28.762179, 0.000000, 0.000000, 28.762179, 0.000000, 1, 0, 2143278889
USA, TX, , , 26, 1, 0.012500, RATE, 0.367089, 29.367090, 0.000000, 0.000000, 29.367090, 0.000000, 1, 0, 2143278889
USA, TX, DALLAS, DALLAS, 1, 1, 0.062500, RATE, 1.863693, 29.819089, 0.000000, 0.000000, 29.819089, 0.000000, 1, 0, 2143278889
USA, TX, DALLAS, DALLAS, 1, 3, 0.010000, RATE, 0.298022, 29.802214, 0.000000, 0.000000, 29.802214, 0.000000, 1, 0, 2143278889
USA, TX, DALLAS, DALLAS, 4, 3, 0.010000, RATE, 0.283838, 28.383766, 0.000000, 0.000000, 28.383766, 0.000000, 0, 0, 2143278889
USA, TX, DALLAS, DALLAS, 10, 3, 0.620000, PER_LINE, 0.620000, 0.000000, 0.000000, 0.000000, 0.000000, 0.000000, 1, 0, 2143278889
USA, TX, DALLAS, DALLAS, 51, 3, 1.350000, PER LINE, 1.350000, 0.000000, 0.000000, 0.000000, 0.000000, 0.000000, 1, 0, 2143278889
USA, ,,,6,0,0.030000, RATE, 0.210216, 7.007192, 0.000000, 0.000000, 7.007192, 5.100000, 0, 0, 2143278889B
USA, ,,, 18, 0, 0.072805, RATE, 0.009967, 0.136896, 0.000000, 0.000000, 0.136896, 0.100000, 0, 0, 2143278889B
USA, ,,, 31, 0, 0.000730, RATE, 0.000099, 0.135089, 0.000000, 0.000000, 0.135089, 0.100000, 0, 0, 2143278889B
USA, TX, , , 9, 1, 0.001670, RATE, 0.011392, 6.821736, 0.000000, 0.000000, 6.821736, 5.000000, 0, 0, 2143278889B
USA, TX, , , 10, 1, 0.006000, RATE, 0.039000, 6.500000, 0.000000, 0.000000, 5.000000, 5.000000, 0, 0, 2143278889B
USA, TX, , , 13, 1, 0.036000, RATE, 0.242515, 6.736532, 0.000000, 0.000000, 6.736532, 5.100000, 0, 0, 2143278889B
USA, TX, , , 26, 1, 0.012500, RATE, 0.086118, 6.889438, 0.000000, 0.000000, 6.889438, 5.100000, 0, 0, 2143278889B
USA, TX, DALLAS, DALLAS, 1, 1, 0.062500, RATE, 0.436224, 6.979585, 0.000000, 0.000000, 6.979585, 5.100000, 0, 0, 2143278889B
USA, TX, DALLAS, DALLAS, 1, 3, 0.010000, RATE, 0.068331, 6.833129, 0.000000, 0.000000, 6.833129, 5.000000, 0, 0, 2143278889B
USA, TX, DALLAS, DALLAS, 4, 3, 0.010000, RATE, 0.068331, 6.833129, 0.000000, 0.000000, 6.833129, 5.000000, 0, 0, 2143278889B
```

5.5.11 ezlogcustios.exe

COMMAND LINE

ezlogcustios [-cl]

DESCRIPTION

The ezlogcustios.exe command reads the log file specified in filelocs.txt and produces a commadelimited file for customer billing. Sorting and reporting is done at the customer level.

INPUT

Reads the reads the log file specified in filelocs.txt or AFC Initialization Function. log.sum – optional input from previous run

OUTPUT

log.sum – sorted and condensed log file as optional input for next run Comma delimited log.rpt file.

Sorted and condensed by Customer Number, PCode, Invoice Number, Optional, Service Level Number, Tax Type, Tax Level, Tax Rate

FILE FORMAT KEY

Invoice Number, Optional, Service Level Number, Country, State, County, Locality, Tax type, Tax level, Tax rate, Tax amount, Gross Sale, Exempt, Adjustments, Taxable measure, Minutes, Customer Number

Figure 5-8 ezlogcustios File Format Key		
Description	Туре	
Invoice Number	Numeric	
Optional	Numeric	
Service Level Number	Numeric	
Country	Alpha	
State	Alpha	
County	Alpha	
Locality	Alpha	
Tax Type	Numeric	
Tax Level	Numeric	
Tax Rate	Numeric	
Tax Amount	Numeric	
Gross Sale	Numeric	
Exempt	Numeric	
Adjustments	Numeric	
Taxable Measure	Numeric	
Minutes	Numeric	

Figure 5-8 ezlogcustios File Format Key		
Description Type		
Customer Number	Alpha Numeric	

-cl creates a combined compliance log file with a .scl extension, containing both the billable and non-billable amounts instead of a separate log file for each.

NOTES:

WARNING - EZTax.log is DELETED. Make backups in case reruns are needed.

SAMPLE DATA

- 6, 8, 7, USA, AL, AUTAUGA, AUTAUGAVILLE, 1, 1, 0.040000, RATE, 0.720000, 18.000000, 0.000000, 0.000000, 18.000000, 275.940002, 54, 18, BillSoft Inc.
- 6, 8, 7, USA, AL, AUTAUGA, JONES, 1, 2, 0.020000, RATE, 0.320000, 16.000000, 0.000000, 16.000000, 16.000000, 245.280014, 48, 16, BillSoft Inc. 6, 8, 7, USA, AL, AUTAUGA, PRATTVILLE, 1, 3, 0.025000, RATE, 0.050000, 2.000000, 0.000000, 0.000000, 2.000000, 30.660000, 6, 2, BillSoft Inc. 6, 8, 7, USA, AL, AUTAUGA, AUTAUGAVILLE, 1, 3, 0.030000, RATE, 0.060000, 2.000000, 0.000000, 0.000000, 2.000000, 30.660000, 6, 2, BillSoft Inc. Inc.
- $6, 8, 7, USA, \dots, 6, 0, 0.030000, RATE, 14.312928, 477.097605, 0.000000, 0.000000, 477.097605, 5825.416504, 1140, 380, BillSoft Inc.$
- 6, 8, 7, USA, AL, , , 8, 1, 0.060000, RATE, 2.200486, 36.674766, 0.000000, 0.000000, 36.674766, 551.879822, 108, 36, BillSoft Inc.
- 6, 8, 7, USA, AL, BALDWIN, , 10, 2, 0.690000, PER_LINE, 4.140000, 2.000000, 0.000000, 0.000000, 2.000000, 30.660000, 6, 2, BillSoft Inc.
- 6, 8, 7, USA, AL, AUTAUGA, , 10, 2, 0.850000, PER_LINE, 35.700001, 14.000000, 0.000000, 0.000000, 14.000000, 214.620010, 42, 14, BillSoft Inc.
- 6, 8, 7, USA, AL, , , 16, 1, 0.060000, RATE, 7.759929, 129.332160, 0.000000, 0.000000, 129.332160, 1931.577759, 378, 126, BillSoft Inc.
- 6, 8, 7, USA, , , , 18, 0, 0.089000, RATE, 5.340000, 60.000000, 0.000000, 0.000000, 60.000000, 919.800232, 180, 60, BillSoft Inc.
- 6, 8, 7, USA, AL, , , 23, 1, 0.150000, PER_LINE, 16.200001, 36.000000, 0.000000, 0.000000, 36.000000, 551.879822, 108, 36, BillSoft Inc.
- $6, 8, 7, USA, \ \ , \ , \ , 31, 0, 0.003560, RATE, 0.213600, 60.000000, 0.000000, 0.000000, 60.000000, 919.800232, 180, 60, BillSoft Inc.$
- $6, 8, 7, USA, AL, BALDWIN, , 35, 2, 1.950000, PER_LINE, 11.700000, 2.000000, 0.000000, 0.000000, 2.000000, 30.660000, 6, 2, BillSoft Inc.$
- 6, 8, 7, USA, AL, AUTAUGA, , 35, 2, 2.400000, PER_LINE, 100.800004, 14.000000, 0.000000, 0.000000, 14.000000, 214.620010, 42, 14, BillSoft Inc.
- $6, 8, 7, \mathsf{USA}, \mathsf{AL}, , , 44, 1, 0.700000, \mathsf{FIXED}, 12.600000, 18.474840, 0.000000, 0.000000, 18.474840, 275.940002, 54, 18, \\ \mathsf{BillSoft Inc.}$
- 6, 8, 7, USA, ,,, 55, 0, 0.025365, RATE, 1.014600, 40.000000, 0.000000, 40.000000, 613.199890, 120, 40, BillSoft Inc.
- 6, 8, 7, USA, , , , 56, 0, 0.010680, RATE, 0.213600, 20.000000, 0.000000, 20.000000, 306.599976, 60, 20, BillSoft Inc.
- 6, 8, 7, USA, , , , 62, 0, 0.001015, RATE, 0.040600, 40.000000, 0.000000, 40.000000, 40.000000, 613.199890, 120, 40, BillSoft Inc.
- 6, 8, 7, USA, , , , 63, 0, 0.000427, RATE, 0.008540, 20.000000, 0.000000, 20.000000, 20.000000, 306.599976, 60, 20, BillSoft Inc.

5.5.12 ezlogcustpts.exe

COMMAND LINE

ezlogcustpts [-cl]

DESCRIPTION

The ezlogcustpts.exe command reads the log file specified in filelocs.txt and produces a commadelimited file for customer billing. Sorting and reporting is done at the customer level. The sort key also contains PCode, optional, and Service Level Number fields.

INPUT

Reads the log file as defined by filelocs.txt or AFC Initialization Function. log.sum – optional input from previous run

OUTPUT

log.sum – sorted and condensed log file as optional input for next run Comma delimited log.rpt file.

Sorted and condensed by Customer Number, PCode, Optional, Service Level Number, Tax Type, Tax Level, Tax Rate

FILE FORMAT KEY

PCode, Transaction type, Service Type, Country, State, County, Locality, Tax type, Tax level, Tax rate, Tax amount, Gross Sale, Exempt, Adjustments, Taxable measure, Minutes, Customer Number.

Figure 5-9 ezlogcustpts File Format Key		
Description	Туре	
PCode	Numeric	
Optional	Numeric	
Service Level Number	Numeric	
Country	Alpha	
State	Alpha	
County	Alpha	
Locality	Alpha	
Tax Type	Numeric	
Tax Level	Numeric	
Tax Rate	Numeric	
Tax Amount	Numeric	
Gross Sale	Numeric	
Exempt	Numeric	
Adjustments	Numeric	
Taxable Measure	Numeric	
Minutes	Numeric	

Figure 5-9 ezlogcustpts File Format Key		
Description	Туре	
Customer Number	Alpha Numeric	

-cl creates a combined compliance log file with a .scl extension, containing both the billable and non-billable amounts instead of a separate log file for each.

NOTES:

• WARNING - EZTax.log is DELETED. Make backups in case reruns are needed.

SAMPLE DATA

```
0, 1, 1, USA,,,, 6, 0, 0.030000, 0.128824, 4.294140, 0.000000, 0.000000, 4.294140, 61.320000, BillSoft, Inc.
0, 1, 1, USA,,,, 18, 0, 0.072805, 0.291220, 4.000000, 0.000000, 0.000000, 4.000000, 61.320000, BillSoft, Inc.
0, 1, 1, USA,,,, 31, 0, 0.000730, 0.002920, 4.000000, 0.000000, 0.000000, 4.000000, 61.320000, BillSoft, Inc.
0, 1, 2, USA,,,, 6, 0, 0.030000, 0.128824, 4.294140, 0.000000, 0.000000, 4.294140, 61.320000, BillSoft, Inc.
0, 1, 2, USA,,,, 18, 0, 0.072805, 0.291220, 4.000000, 0.000000, 4.000000, 4.000000, 61.320000, BillSoft, Inc.
0, 1, 2, USA,,,, 31, 0, 0.000730, 0.002920, 4.000000, 0.000000, 0.000000, 4.000000, 61.320000, BillSoft, Inc.
0, 1, 3, USA,,,, 6, 0, 0.030000, 0.128824, 4.294140, 0.000000, 0.000000, 4.294140, 61.320000, BillSoft, Inc.
0, 1, 3, USA,,,, 18, 0, 0.072805, 0.291220, 4.000000, 0.000000, 0.000000, 4.000000, 61.320000, BillSoft, Inc.
0, 1, 3, USA,,,, 31, 0, 0.000730, 0.002920, 4.000000, 0.000000, 0.000000, 4.000000, 61.320000, BillSoft, Inc.
0, 1, 4, USA,,,, 18, 0, 0.072805, 0.291220, 4.000000, 0.000000, 0.000000, 4.000000, 61.320000, BillSoft, Inc.
0, 1, 4, USA,,,, 31, 0, 0.000730, 0.002920, 4.000000, 0.000000, 0.000000, 4.000000, 61.320000, BillSoft, Inc.
0, 2, 1, USA,,,, 6, 0, 0.030000, 0.120000, 4.000000, 0.000000, 4.000000, 61.320000, BillSoft, Inc.
0, 2, 2, USA,,,, 6, 0, 0.030000, 0.120000, 4.000000, 0.000000, 0.000000, 4.000000, 61.320000, BillSoft, Inc.
0, 2, 3, USA,,,, 6, 0, 0.030000, 0.120000, 4.000000, 0.000000, 0.000000, 4.000000, 61.320000, BillSoft, Inc.
0, 2, 5, USA,,,, 6, 0, 0.030000, 0.120000, 4.000000, 0.000000, 0.000000, 4.000000, 61.320000, BillSoft, Inc.
0, 3, 6, USA,,,, 6, 0, 0.030000, 0.360000, 12.000000, 0.000000, 12.000000, 12.000000, 183.960007, BillSoft, Inc.
0, 3, 9, USA,,,, 6, 0, 0.030000, 0.120000, 4.000000, 0.000000, 4.000000, 4.000000, 61.320000, BillSoft, Inc.
100, 1, 1, USA, AL, , , 16, 1, 0.060000, 0.257648, 4.294140, 0.000000, 0.000000, 4.294140, 61.320000, BillSoft, Inc.
100, 1, 2, USA, AL, , , 16, 1, 0.060000, 0.257648, 4.294140, 0.000000, 0.000000, 4.294140, 61.320000, BillSoft, Inc.
100, 1, 3, USA, AL, , , 16, 1, 0.060000, 0.257648, 4.294140, 0.000000, 0.000000, 4.294140, 61.320000, BillSoft, Inc.
100, 1, 4, USA, AL, , , 16, 1, 0.060000, 0.257648, 4.294140, 0.000000, 0.000000, 4.294140, 61.320000, BillSoft, Inc.
100, 2, 1, USA, AL, , , 16, 1, 0.060000, 0.240000, 4.000000, 0.000000, 0.000000, 4.000000, 61.320000, BillSoft, Inc.
100, 2, 2, USA, AL, , , 16, 1, 0.060000, 0.240000, 4.000000, 0.000000, 0.000000, 4.000000, 61.320000, BillSoft, Inc.
100, 2, 3, USA, AL, , , 16, 1, 0.060000, 0.240000, 4.000000, 0.000000, 0.000000, 4.000000, 61.320000, BillSoft, Inc.
100, 2, 4, USA, AL, , , 16, 1, 0.060000, 0.240000, 4.000000, 0.000000, 4.000000, 4.000000, 61.320000, BillSoft, Inc.
100, 2, 5, USA, AL, , , 16, 1, 0.060000, 0.240000, 4.000000, 0.000000, 0.000000, 4.000000, 61.320000, BillSoft, Inc.
100, 3, 6, USA, AL, . , 16, 1, 0.060000, 0.720000, 12.000000, 0.000000, 12.000000, 12.000000, 183.960007, BillSoft, Inc.
200, 2, 5, USA, AL, AUTAUGA, , 10, 2, 0.050000, 0.100000, 2.000000, 0.000000, 0.000000, 2.000000, 30.660000, BillSoft, Inc.
```

5.5.13 ezlogcustptslnl.exe

COMMAND LINE

ezlogcustptsInl [-cl]

DESCRIPTION

The ezlogcustptsInI.exe command reads the log file specified in filelocs.txt and produces a comma-delimited file for customer billing. Sorting and reporting is done at the customer level. In addition to the PCode, optional, and Service Level Number fields and the number of lines are also included.

INPUT

Reads the log file as defined by filelocs.txt or AFC Initialization Function. log.sum – optional input from previous run

OUTPUT

log.sum – sorted and condensed log file as optional input for next run Comma delimited log.rpt file.

Sorted and condensed by Customer Number, PCode, Optional, Service Level Number, Tax Type, Tax Level, Tax Rate

FILE FORMAT KEY

PCode, Transaction type, Service Type, Country, State, County, Locality, Tax type, Tax level, Tax rate, Tax amount, Gross Sale, Exempt, Adjustments, Taxable measure, Minutes, Customer Number, Lines

Figure 5-10 ezlogcustptsInl File Format Key		
Description	Туре	
PCode	Numeric	
Optional	Numeric	
Service Level Number	Numeric	
Country	Alpha	
State	Alpha	
County	Alpha	
Locality	Alpha	
Tax Type	Numeric	
Tax Level	Numeric	
Tax Rate	Numeric	
Tax Amount	Numeric	
Gross Sale	Numeric	
Exempt	Numeric	
Adjustments	Numeric	

Figure 5-10 ezlogcustptsInl File Format Key		
Description	Туре	
Taxable Measure	Numeric	
Minutes	Numeric	
Customer Number	Alpha Numeric	
Lines	Numeric	

-cl creates a combined compliance log file with a .scl extension, containing both the billable and non-billable amounts instead of a separate log file for each.

NOTES:

WARNING - EZTax.log is DELETED. Make backups in case reruns are needed.

SAMPLE DATA

```
0, 0, 0, USA, , , , 6, 0, 0.030000, 2.462930, 82.097663, 0.000000, 0.000000, 82.097663, 0.000000, BillSoft, Inc. , 6, 2
0, 0, 0, USA, , , , 31, 0, 0.000000, 0.000000, 13.000000, 13.000000, 0.000000, 0.000000, 0.000000, BillSoft. Inc. . . 0, 0
1210800, 0, 0, USA, KS, , , 13, 1, 0.048700, 1.458565, 29.949999, 0.000000, 0.000000, 29.949999, 0.000000, BillSoft, Inc.
1284800, 0, 0, USA, KS, SALINE, , 10, 2, 0.750000, 2.250000, 0.000000, 0.000000, 0.000000, 0.000000, 0.000000, BillSoft, Inc. , 3, 0
1284900, 0, 0, USA, KS, SALINE, SALINA, 1, 1, 0.053000, 2.039814, 38.487064, 0.000000, 0.000000, 38.487064, 0.000000, BillSoft, Inc. , 0, 0
1284900, 0, 0, USA, KS, SALINE, SALINA, 1, 2, 0.010000, 0.384871, 38.487064, 0.000000, 0.000000, 38.487064, 0.000000, BillSoft, Inc. , 0, 0
1284900, 0, 0, USA, KS, SALINE, SALINA, 1, 3, 0.007500, 0.288653, 38.487064, 0.000000, 0.000000, 38.487064, 0.000000, BillSoft, Inc. , 0, 0
2502500, 0, 0, USA, NY, , , 5, 1, 0.025000, 0.925712, 37.028499, 0.000000, 37.028499, 0.000000, BillSoft, Inc. , 0, 0
2502500, 0, 0, USA, NY, , , 45, 1, 0.003750, 0.138857, 37.028499, 0.000000, 0.000000, 37.028499, 0.000000, BillSoft, Inc. , 0, 0
2604000, 0, 0, USA, NY, NEW YORK, , 27, 2, 0.005950, 0.220320, 37.028499, 0.000000, 0.000000, 37.028499, 0.000000, BillSoft, Inc. , 0, 0
2604000, 0, 0, USA, NY, NEW YORK, , 28, 2, 0.001275, 0.047211, 37.028499, 0.000000, 0.000000, 37.028499, 0.000000, BillSoft, Inc. , 0, 0
2604100, 0, 0, USA, NY, NEW YORK, NEW YORK, 1, 1, 0.042500, 1.630325, 38.360599, 0.000000, 0.000000, 38.360599, 0.000000, BillSoft, Inc.
. 0. 0
2604100, 0, 0, USA, NY, NEW YORK, NEW YORK, 1, 3, 0.043750, 1.678276, 38.360599, 0.000000, 0.000000, 38.360599, 0.000000, BillSoft, Inc.
, 0, 0
2604100, 0, 0, USA, NY, NEW YORK, NEW YORK, 29, 3, 0.023500, 0.870170, 37.028499, 0.000000, 0.000000, 37.028499, 0.000000, BillSoft, Inc.
, 0, 0
```

5.5.14 EZTaxappend.exe

COMMAND LINE

EZTaxappend logfilename1.log logfilename2.log

DESCRIPTION

The EZTaxappend.exe command is used to combine two *logfilename*.log files. It appends *logfilename*1.log to *logfilename*2.log, leaving *logfilename*1.log intact.

INPUT

logfilename1.log

OUTPUT

logfilename2.log

FILE FORMAT KEY

The output file produced is a log file with no format key as this is a log manipulation utility.

ARGUMENTS

logfilename1.log – the name of the EZTaxlog file to be appendedlogfilename2.log – the name of the EZTaxlog file to be appended to.

NOTES:

- log.sum is NOT created.
- EZTax.log is NOT deleted.
- logfilename1.log and logfilename2.log must be actual filenames.
- Filelocs.txt is not used.

5.5.15 EZTaxappendf.exe

COMMAND LINE

EZTaxappendf filelist.txt extaxlogfilename.log

DESCRIPTION

The EZTaxappendf.exe command is used to combine the *logfilename*.log files listed in the *filelist*.txt text file containing the paths and *logfilename*.log names to combine.

INPUT

Filelist.txt

OUTPUT

logfilename.log

FILE FORMAT KEY

The output file produced is a log file with no format key as this is a log manipulation utility.

ARGUMENTS

Filelist.txt – the text file supplied by the user with the names of the *logfilename*.log files. logfilename.log – the name of the new *logfilename*.log to be created.

NOTES:

- *logfilename*.log will be created if it does not exist. Otherwise it will append to the existing *logfilename*.log file.
- All log files defined in *Filelist*.txt are concatenated to *logfilename*.log
- log.sum is NOT created.
- EZTax.log is NOT deleted.
- Filelocs.txt is not used.
- Filelist.txt entries can be space or line delimited.

5.5.16 log no tax transactions

DESCRIPTION

LOGNOTAXTRANS=OFF LOGNOTAXTRANS=ON

The Log No Tax Transaction option is used to allow writing zero tax amount transactions to the EZTax.ntl log file. The default setting of "OFF" disables this logging function. When set to "ON," AFC will write zero tax amount transactions to the EZTax.ntl log file.

The no tax transaction log is used to track transactions that do not return any tax types and therefore do not perform tax calculations. This allows for the distinction from a transaction that logs zero tax when a calculation has occurred and resulted in a value of zero which is then placed in EZTax.log.

The no tax transaction log will be named [*logname*].ntl in which *logname* refers to the name of the AFC transaction log file, minus the extension, and will be output to the same directory as the log file.

Example of Naming Convention:

(Based on the assumption that the billing system has two sessions with log files named SessionA.log and SessionB.log.)

SessionA.log

SessionA.sta

SessionA.tsr

SessionA.ntl

SessionB.log

SessionB.sta

SessionB.tsr

SessionB.ntl

NOTE:

The lognotaxtrans switch is over-ridden by the overall logging switch. If logging is turned off when the EZTaxInitEx function initializes the AFC session, the no-tax-trans log will not be created.

FILE FORMAT KEY

Short Format:

Company Identifier, Customer Number, Transaction Type, Service Type, P Code, Charge

Figure 5-11 Short EZTax.ntl Log File Format Key			
Description	Туре	Length	Positions
Company Identifier	Alpha Numeric	20	1-20
Customer Number	Alpha Numeric	20	21-40
Transaction Type	Numeric	4	41-44
Service Type	Numeric	4	45-48
P Code	Numeric	10	49-58
Charge	Numeric	15.5	59-73
Record Length		73	

Long Format:

Company Identifier, Customer Number, Optional Alpha Text, Transaction Type, Service Type, P Code, Charge

Figure 5-12 EZTax.ntl Long Log File Format Key			
Description	Туре	Length	Positions
Company Identifier	Alpha	20	1-20
Company Identifier	Numeric	20	1-20
Customer Number	Alpha	20	21-40
Customer Number	Numeric	Numeric 20 21-4	21-40
Optional Alpha	Alpha	20	41-60
Transaction Type	Numeric	4	61-64
Service Type	Numeric	4	65-68
P Code	Numeric	10	69-78
Charge	Numeric	15.5	79-93
Record Length		93	

NOTES:

None

SAMPLE DATA

Short Format:

 $company_identifier, customer_number, transaction_type, service_type, P_Code, charge$

--- Sample output begins on the next line ------EZtax version 9.0.0.0.5 No-tax Transaction Log

6215687423a,	TU98602746, 0001, 0027,	2102300,	1395.00000	
6215687423a,	OP97602744, 0001, 0027,	2102300,	630.00000	
6215687423a,	104602742, 0004, 0008,	2102300,	950.00000	
6215687423a,	555602718, 0001, 0027,	2102300,	100.00000	
6215687423a,	16055602716, 0001, 0027,	, 2102300,	100.00000	
6215687423a,	22602711, 0001, 0027,	2102300,	100.00000	
6215687423a,	19602709, 0003, 0006,	2102300,	266.44000	
6215687423a,	33602707, 0001, 0027,	2102300,	300.0000	
6215687423a,	55602705, 0001, 0027,	2102300,	500.00000	
6215687423a,	LD55602703, 0001, 0027,	2102300,	100.00000	
6215687423a,	56602701, 0003, 0006,	2102300,	266.44000	

6215687423a,	57602699, 0001, 0027,	2102300,	300.00000
6215687423a,	58602697, 0001, 0027,	2102300,	500.00000
6215687423a.	58587819, 0001, 0027.	2350600.	500.00000

Long Format:

 $company_identifier, customer_number, optional \ alpha \ text, transaction_type, service_type, P_Code, charge$

--- Sample output begins on the next line ------EZtax version 9.0.0.0.5 No-tax Transaction Log

6215687423a,	TU98602746,	Optional Text, 0001, 0027,	2102300,	1395.00000
6215687423a,	OP97602744,	Optional Text, 0001, 0027,	2102300,	630.00000
6215687423a,	104602742,	Optional Text, 0004, 0008,	2102300,	950.00000
6215687423a,	555602718,	Optional Text, 0001, 0027,	2102300,	100.00000
6215687423a,	16055602716,	Optional Text, 0001, 0027,	, 2102300,	100.00000
6215687423a,	22602711,	Optional Text, 0001, 0027,	2102300,	100.00000
6215687423a,	19602709,	Optional Text, 0003, 0006,	2102300,	266.44000
6215687423a,	33602707,	Optional Text, 0001, 0027,	2102300,	300.00000
6215687423a,	55602705,	Optional Text, 0001, 0027,	2102300,	500.00000
6215687423a,	LD55602703,	Optional Text, 0001, 0027,	2102300,	100.00000
6215687423a,	56602701,	Optional Text, 0003, 0006,	2102300,	266.44000
6215687423a,	57602699,	Optional Text, 0001, 0027,	2102300,	300.00000
6215687423a,	58602697,	Optional Text, 0001, 0027,	2102300,	500.00000
6215687423a,	58587819,	Optional Text, 0001, 0027,	2350600,	500.00000

5.5.17 srtcdf20.exe

COMMAND LINE

srtcdf20 [-z <pkzip executable>] outputfilename [-nN] [extralogfilename] [-cl]

DESCRIPTION

The srtcdf20.exe command reads the log file specified in filelocs.txt and produces a fixed length text file *outputfilename*.ssf for tax compliance filing and a fixed length text file *outputfilename*.csf for customer billing.

INPUT

Reads the log file as defined by filelocs.txt or AFC Initialization Function. log.sum – optional input from previous run, or uses the *extralogfilename* from the command line.

OUTPUT

Fixed Length *outputfilename*.ssf file for tax compliance filing. Sorted and condensed by PCode, Tax Type, Tax Level, Tax Rate

Fixed Length *outputfilename*.csf file for customer billing. Sorted and condensed by Customer Number, Tax Type, Tax Level, Tax Rate

FILE FORMAT KEYS

Figure 5-13 srtcdf20 SSF File Format Key				
Description	Type	Length	Positions	
PCode	Numeric	9	1-9	
Tax Type	Numeric	6	10-15	
Tax Level	Numeric	1	16	
Tax Rate	Numeric	8.5	17-24	
Tax Amount Sign	Alpha	1	25	
Tax Amount	Numeric	11.5	26-36	
File Record Length		36		

Figure 5-14 srtcdf20 CSF File Format Key			
Description	Туре	Length	Positions
Customer Number	Numeric	20	1-20
Tax Type	Numeric	6	21-26
Tax Level	Numeric	1	27
Tax Amount	Numeric	12	28-39
File Record Length		39	

-z <pkzip executable> - path to zip executable file*
 N or n - CSF file is not sorted
 extra log file name - use instead of log.sum
 -cl creates a combined compliance log file with a .scl extension, containing both the billable and non-billable amounts instead of a separate log file for each.

* The pkzip executable option is only available with the windows platform.

NOTES:

- The Tax Rate field is sensitive to positive and negative values
- The log.sum file is NOT created
- WARNING EZTax.log is DELETED. Make backups in case reruns are needed.

SAMPLE DATA

5.5.18 srtcdf20p.exe

COMMAND LINE

srtcdf20p [-z <pkzippath>] outputfilename [-nN] [-cl]

DESCRIPTION

The srtcdf20p.exe command reads the log file specified in filelocs.txt and produces a fixed length text file *outputfilename*.ssf for tax compliance filing and a fixed length text file *outputfilename*.csf for customer billing.

The .csf file is used for import into the billing system to populate customer bills. Various compliance vendors use the .ssf file. The csf file also contains the PCode.

INPUT

Reads the logfile as defined by filelocs.txt or AFC Initialization Function. log.sum – optional input from previous run

OUTPUT

Fixed Length *outputfilename*.ssf file for tax compliance filing. Sorted and condensed by PCode, Tax Type, Tax Level, Tax Rate

Fixed Length *outputfilename*.csf file for customer billing. Sorted and condensed by Customer Number, Tax Type, Tax Level, Tax Rate

FILE FORMAT KEYS

Figure 5-15 srtcdf20p SSF File Format Key				
Description	Туре	Length	Positions	
PCode	Numeric	9	1-9	
Тах Туре	Numeric	6	10-15	
Tax Level	Numeric	1	16	
Tax Rate	Numeric	8.5	17-24	
Tax Amount Sign	Alpha	1	25	
Tax Amount	Numeric	11.5	26-36	
File Record Length		36		

Figure 5-16 srtcdf20p CSF File Format Key			
Description	Type	Length	Positions
Customer Number	Numeric	20	1-20
Tax Type	Numeric	6	21-26
Tax Level	Numeric	1	27
Tax Amount	Numeric	12	28-39
PCode	Numeric	9	40-48

Figure 5-16	Figure 5-16 srtcdf20p CSF File For		
Description	Туре	Length	Positions
File Record Length		48	

-z <pkzip executable> - path to zip executable file*

N or n - CSF file is not sorted

-cl creates a combined compliance log file with a .scl extension, containing both the billable and non-billable amounts instead of a separate log file for each.

* The pkzip executable option is only available with the windows platform.

NOTES:

- The Tax Rate field is sensitive to positive and negative values
- The log.sum file is NOT created
- WARNING EZTax.log is DELETED. Make backups in case reruns are needed.

•

5.5.19 srtcomcust20.exe

COMMAND LINE

srtcomcust20 [-z <pkzip executable>] outputfilename [nN] [extra log file name] [-cl]

DESCRIPTION

The srtcomcust20.exe command reads the log file specified in filelocs.txt and produces a comma delimited text file *outputfilename*.ssf for tax compliance filing and a fixed length text file *outputfilename*.csf for customer billing.

The .csf file is used for import into the billing system to populate customer bills. The commadelimited .ssf file is sorted at the customer level.

INPUT

Reads the log file as defined by filelocs.txt or AFC Initialization Function. log.sum – optional input from previous run or uses the extra log file name from the command line.

OUTPUT

Comma Delimited *outputfilename*.ssf file for tax compliance filing. Sorted and condensed by Customer Number, PCode, Tax Type, Tax Level, Tax Rate, Calculation Type.

Fixed Length *outputfilename*.csf file for customer billing. Sorted and condensed by Customer Number, Tax Type, Tax Level, Tax Rate

FILE FORMAT KEY

Figure 5-17 srtcomcust20 SSF File Format Key		
Description	Туре	
Country	Alpha	
State	Alpha	
County	Alpha	
Locality	Alpha	
PCode	Numeric	
Tax Type	Numeric	
Tax Level	Numeric	
Tax Rate	Numeric	
Calculation Type	Alpha	
Tax Amount	Numeric	
Gross Sale	Numeric	
Exempt	Numeric	
Adjustments	Numeric	
Taxable Measure	Numeric	

Figure 5-17 srtcomcust20 SSF File Format Key			
Description Type			
Minutes	Numeric		
Lines	Numeric		
Customer Number Alpha Numeric			

Figure 5-18 srtcomcust20 CSF File Format Key			
Description	Туре	Length	Positions
Customer Number	Numeric	20	1-20
Тах Туре	Numeric	6	21-26
Tax Level	Numeric	1	27
Tax Amount	Numeric	12	28-39
File Record Length		39	

-z <pkzip executable> - path to zip executable file*
N or n – CSF file is not sorted
extra log file name – use instead of log.sum

-cl creates a combined compliance log file with a .scl extension, containing both the billable and non-billable amounts instead of a separate log file for each.

NOTES:

- The Tax Rate field is sensitive to positive and negative values
- The log.sum file is NOT created
- WARNING EZTax.log is DELETED. Make backups in case reruns are needed.

Refer to Transactions and Tax Types for descriptions of the data in the generated file.

5.5.20 srtcomma20.exe

^{*} The pkzip executable option is only available with the windows platform.

COMMAND LINE

Srtcomma20 [-z <pkzip executable>] outputfilename [nN] [extra log file name][-cl]

DESCRIPTION

The srtcomma20.exe command reads the log file specified in filelocs.txt and produces a comma delimited text file *outputfilename*.ssf for tax compliance filing and a fixed length text file *outputfilename*.csf for customer billing.

The .csf file is used for import into the billing system to populate customer bills. The commadelimited .ssf file is sorted at the jurisdictional level.

INPUT

Reads the *logfilename*.log file as defined by filelocs.txt or AFC Initialization Function. log.sum – optional input from previous run or uses the extra log file name from the command line.

OUTPUT

log.sum – sorted and condensed log file as optional input for next run

Comma Delimited *outputfilename*.ssf file for tax compliance filing. Sorted and condensed by PCode, Tax Type, Tax Level, Tax Rate

Fixed Length *outputfilename*.csf file for customer billing. Sorted and condensed by Customer Number, Tax Type, Tax Level, Tax Rate

FILE FORMAT KEY

Country, State, County, Locality, Tax type, Tax level, Tax rate, Tax amount, Gross Sale, Exempt, Adjustments, Taxable measure, Minutes

Figure 5-19 srtcomma20 SSF File Format Key			
Description Type			
Country	Alpha		
State	Alpha		
County	Alpha		
Locality	Alpha		
Tax Type	Numeric		
Tax Level	Numeric		
Tax Rate	Numeric		
Tax Amount	Numeric		
Gross Sale	Numeric		
Exempt	Numeric		
Adjustments	Numeric		
Taxable Measure	Numeric		

Figure 5-19 srtcomma20 SSF File Format Key		
Description Type		
Minutes Numeric		

Figure 5-20 srtcomma20 CSF File Format Key			
Description	Туре	Length	Positions
Customer Number	Alpha	20	1-20
Tax Type	Numeric	6	21-26
Tax Level	Numeric	1	27
Tax Amount Sign	Alpha	1	28
Tax Amount	Numeric	11.5	29-39
File Record Length		39	

-z <pkzip executable> - path to zip executable file*
 N or n - CSF file is not sorted
 extra log file name - use instead of log.sum
 -cl creates a combined compliance log file with a .scl extension, containing both the billable and

non-billable amounts instead of a separate log file for each.

NOTES:

- The Tax Rate field is sensitive to positive and negative values
- The log.sum file is NOT created
- WARNING EZTax.log is DELETED. Make backups in case reruns are needed.

SAMPLE DATA

 $\begin{array}{l} \mathsf{USA}, \dots, 6, 0, 0.030000, 29881.866905, 996062.252444, 0.000000, 0.000000, 996062.252444, 14859213.000000 \\ \mathsf{USA}, \dots, 7, 0, 0.007600, 10116.132171, 1331070.000000, 0.000000, 0.000000, 1331070.000000, 20410578.000000 \\ \mathsf{USA}, \dots, 18, 0, 0.031400, 11145.492379, 354952.000000, 0.000000, 0.000000, 354952.000000, 5446827.000000 \\ \mathsf{USA}, \mathsf{AL}, \dots, 16, 1, 0.067000, 969.972210, 14477.196802, 0.000000, 0.000000, 14477.196802, 220238.671875 \\ \mathsf{USA}, \mathsf{AZ}, \dots, 1, 1, 0.050000, 0.806080, 16.121600, 0.000000, 0.000000, 16.121600, 245.280014 \\ \mathsf{USA}, \mathsf{AZ}, \dots, 10, 1, 0.012500, 9.068400, 725.472000, 0.000000, 0.000000, 725.472000, 11037.642578 \\ \mathsf{USA}, \mathsf{AZ}, \dots, 12, 1, 0.011000, 7.980192, 725.472000, 0.000000, 0.000000, 725.472000, 11037.642578 \\ \mathsf{USA}, \mathsf{AZ}, \mathsf{APACHE}, \dots, 1, 1, 0.050000, 0.806080, 16.121600, 0.000000, 0.000000, 16.121600, 245.280014 \\ \mathsf{USA}, \mathsf{AZ}, \mathsf{APACHE}, \dots, 1, 2, 0.027000, 0.435283, 16.121600, 0.000000, 0.000000, 16.121600, 245.280014 \\ \mathsf{USA}, \mathsf{AZ}, \mathsf{APACHE}, \mathsf{SPRINGERVILLE}, 1, 1, 0.050000, 0.705320, 14.106400, 0.000000, 0.000000, 14.106400, 214.620010 \\ \end{array}$

^{*} The pkzip executable option is only available with the windows platform.

5.5.21 srtcomma20l.exe

COMMAND LINE

srtcomma20l [-z <pkzip executable>] outputfilename <nN> <-p> <-s> <pcsf> <extralogfilename> [-cl]

DESCRIPTION

The srtcomma20l.exe command reads the log file specified in filelocs.txt and produces a comma delimited text file *outputfilename*.ssf for tax compliance filing and a fixed length text file *outputfilename*.csf for customer billing, separating adjustments.

The .csf file is used for import into the billing system to populate customer bills. The commadelimited .ssf file is sorted at the jurisdictional level. The .ssf file also contains the number of lines.

INPUT

Reads the *logfilename*.log file as defined by filelocs.txt or AFC Initialization Function. log.sum – optional input from previous run or uses the extra log file name from the command line.

OUTPUT

Fixed Length *outputfilename*.ssf file for tax compliance filing. Sorted and condensed by PCode, Tax Type, Tax Level, Tax Rate.

Fixed Length *outputfilename*.csf file for customer billing. Sorted and condensed by Customer Number, Tax Type, Tax Level, Tax Rate, Tax Amount.

FILE FORMAT KEY

Country, State, County, Locality, Tax type, Tax level, Tax rate, Tax amount, Gross Sale, Exempt, Adjustments, Taxable measure, Minutes, Lines

WITH -p OPTION SPECIFIED

PCode, Tax type, Tax level, Tax rate, Tax amount, Gross Sale, Exempt, Adjustments, Taxable measure, Minutes, Lines

Figure 5-21 srtcomma20l SSF File Format Key without –p option			
Description Type			
Country	Alpha		
State Alpha			
County Alpha			
Locality Alpha			

Figure 5-21 srtcomma20l SSF File Format Key without –p option		
Description Type		
Tax Type	Numeric	
Tax Level	Numeric	
Tax Rate	Numeric	
Tax Amount	Numeric	
Gross Sale	Numeric	
Exempt	Numeric	
Adjustments	Numeric	
Taxable Measure	Numeric	
Minutes	Numeric	
Lines	Numeric	

Figure 5-22 srtcomma20l SSF File Format Key with –p option		
Description Type		
PCode	Numeric	
Tax Type	Numeric	
Tax Level	Numeric	
Tax Rate	Numeric	
Tax Amount	Numeric	
Gross Sale	Numeric	
Exempt Numeric		
Adjustments	Numeric	
Taxable Measure	Numeric	
Minutes	Numeric	
Lines	Numeric	

Figure 5-23 srtcomma20l CSF File Format Key			
Description	Туре	Length	Positions
Customer Number	Alpha	20	1-20
Тах Туре	Numeric	6	21-26
Tax Level	Numeric	1	27
Tax Amount Sign	Alpha	1	28
Tax Amount	Numeric	11.5	29-39
File Record Length		39	

-z <pkzip executable> - path to zip executable file*

N or n-.csf file is unsorted

- -p add PCode to ssf file. Does not add PCode to csf file
- -s produce only the ssf. The .csf file is not created.
- -pcsf add PCode to csf file.

extra log file name – use instead of log.sum

-cl creates a combined compliance log file with a .scl extension, containing both the billable and non-billable amounts instead of a separate log file for each.

* The pkzip executable option is only available with the windows platform.

NOTES:

- The Tax Rate field is sensitive to positive and negative values
- The log.sum file is NOT created
- WARNING EZTax.log is DELETED. Make backups in case reruns are needed.

SAMPLE DATA

SAMPLE DATA WITH -p OPTION

 $0, 6, 0, 0.030000, 29881.866905, 996062.252444, 0.000000, 0.000000, 996062.252444, 14859213.000000, 0\\ 0, 7, 0, 0.007600, 10116.132171, 1331070.000000, 0.000000, 0.000000, 1331070.000000, 20410578.000000, 0\\ 0, 18, 0, 0.031400, 11145.492379, 354952.000000, 0.000000, 0.000000, 354952.000000, 5446827.000000, 0\\ 100, 16, 1, 0.067000, 969.972210, 14477.196802, 0.000000, 0.000000, 14477.196802, 220238.671875, 0\\ 125300, 1, 1, 0.050000, 0.806080, 16.121600, 0.000000, 0.000000, 16.121600, 245.280014, 0\\ 125300, 10, 1, 0.012500, 9.068400, 725.472000, 0.000000, 0.000000, 725.472000, 11037.642578, 0\\ 125300, 12, 1, 0.011000, 7.980192, 725.472000, 0.000000, 0.000000, 725.472000, 11037.642578, 0\\ 125400, 1, 1, 0.050000, 0.806080, 16.121600, 0.000000, 0.000000, 16.121600, 245.280014, 0\\ 125400, 1, 2, 0.027000, 0.435283, 16.121600, 0.000000, 0.000000, 16.121600, 245.280014, 0\\ 125500, 1, 1, 0.050000, 0.705320, 14.106400, 0.000000, 0.000000, 14.106400, 214.620010, 0\\ \end{tabular}$

5.5.22 srtcomma20ld.exe

COMMAND LINE

srtcomma20ld [-z <pkzip executable>] outputfilename <nN> <-p> <-s> <pcsf> <extralogfilename>
[-cl] [-tc]

DESCRIPTION

The srtcomma20ld.exe command reads the log file specified in filelocs.txt and produces a comma delimited text file *outputfilename*.ssf for tax compliance filing and a fixed length text file *outputfilename*.csf for customer billing, separating adjustments.

The .csf file is used for import into the billing system to populate customer bills. The commadelimited .ssf file is sorted at the jurisdictional level. The .ssf file also contains the number of lines.

Note: srtcomma20ld handles adjustments differently than srtcomma20l does by subtracting the adjustment from the Gross Sales before the Net Taxable Amount is calculated.

INPUT

Reads the *logfilename*.log file as defined by filelocs.txt or AFC Initialization Function. log.sum – optional input from previous run or uses the extra log file name from the command line.

OUTPUT

Fixed Length *outputfilename*.ssf file for tax compliance filing. Sorted and condensed by PCode, Tax Type, Tax Level, Tax Rate.

Fixed Length *outputfilename*.csf file for customer billing. Sorted and condensed by Customer Number, Tax Type, Tax Level, Tax Rate, Tax Amount.

FILE FORMAT KEY

Country, State, County, Locality, Tax type, Tax level, Discount type, Calculation type, Tax rate, Tax amount, Gross Sale, Exempt, Adjustments, Taxable measure, Minutes, Lines

WITH -p OPTION SPECIFIED

PCode, Tax type, Tax level, Discount type, Calculation type, Tax rate, Tax amount, Gross Sale, Exempt, Adjustments, Taxable measure, Minutes, Lines

Figure 5-24 srtcomma20ld SSF File Format Key without –p option			
Description Type			
Country	Alpha		
State	Alpha		
County	Alpha		
Locality	Alpha		
Tax Type	Numeric		
Tax Level	Numeric		
Discount Type	Numeric		
Calculation Type	Numeric		
Tax Rate	Numeric		
Tax Amount	Numeric		
Gross Sale	Numeric		
Exempt	Numeric		
Adjustments	Numeric		
Taxable Measure	Numeric		
Minutes	Numeric		
Lines Numeric			

Figure 5-25 srtcomma20ld SSF File Format Key with –p option			
Description Type			
PCode	Numeric		
Tax Type	Numeric		
Tax Level	Numeric		
Discount Type	Numeric		
Calculation Type	Numeric		
Tax Rate	Numeric		
Tax Amount	Numeric		
Gross Sale	Numeric		
Exempt	Numeric		
Adjustments	Numeric		
Taxable Measure	Numeric		
Minutes	Numeric		
Lines	Numeric		

Figure 5-26 srtcomma20l CSF File Format Key			
Description	Туре	Length	Positions
Customer Number	Alpha	20	1-20
Tax Type	Numeric	6	21-26
Tax Level	Numeric	1	27
Tax Amount Sign	Alpha	1	28
Tax Amount	Numeric	11.5	29-39
Tax Category (optional)	Alpha	50	40-69
File Record Length		39 or 89	

ARGUMENTS

```
    -z <pkzip executable> - path to zip executable file*
    N or n - .csf file is unsorted
    -p - add PCode to ssf file. Does not add PCode to csf file
    -s - produce only the ssf. The .csf file is not created.
    -pcsf - add PCode to csf file.
    extra log file name - use instead of log.sum
    -cl creates a combined compliance log file with a .scl extension, containing both the billable and non-billable amounts instead of a separate log file for each.
```

* The pkzip executable option is only available with the windows platform.

-tc adds the tax category description to the end of each line

NOTES:

- The Tax Rate field is sensitive to positive and negative values
- The log.sum file is NOT created
- WARNING EZTax.log is DELETED. Make backups in case reruns are needed.

SAMPLE DATA

USA, NY, NEW YORK, NEW YORK, 1, 1, 0, 1, 0.042500, 50.950600, 1198.837637, 0.000000, 0.000000, 1198.837637, 480.0, 0
USA, NY, NEW YORK, NEW YORK, 1, 3, 0, 1, 0.041250, 49.452053, 1198.837637, 0.000000, 0.000000, 1198.837637, 480.0, 0
USA, PA, BERKS, KEMPTON, 1, 1, 0, 1, 0.060000, 58.370907, 972.848456, 0.000000, 0.000000, 972.848456, 240.0, 0
USA, PA, SCHUYLKILL, NEW PHILADELPHIA, 1, 1, 0, 1, 0.060000, 58.370907, 972.848456, 0.000000, 0.000000, 0.000000, 972.848456, 240.0, 0

SAMPLE DATA WITH -p OPTION

```
1040600, 1, 1, 0, 1, 0.060000, 34.397387, 573.289778, 0.000000, 0.000000, 573.289778, 240.0, 0\\ 1054600, 1, 1, 0, 1, 0.060000, 34.397387, 573.289778, 0.000000, 0.000000, 573.289778, 240.0, 0\\ 1615500, 1, 1, 0, 1, 0.050000, 25.328978, 506.579556, 0.000000, 0.000000, 506.579556, 480.0, 0\\ 2395900, 1, 1, 0, 1, 0.060000, 111.182681, 1853.044679, 0.000000, 0.000000, 1853.044679, 480.0, 0\\ 2604100, 1, 1, 0, 1, 0.042500, 50.950600, 1198.837637, 0.000000, 0.000000, 1198.837637, 480.0, 0\\ 2604100, 1, 3, 0, 1, 0.041250, 49.452053, 1198.837637, 0.000000, 0.000000, 1198.837637, 480.0, 0\\ 3232600, 1, 1, 0, 1, 0.060000, 58.370907, 972.848456, 0.000000, 0.000000, 972.848456, 240.0, 0\\ 3415300, 1, 1, 0, 1, 0.060000, 58.370907, 972.848456, 0.000000, 0.000000, 972.848456, 240.0, 0\\ 3415300, 1, 1, 0, 1, 0.060000, 58.370907, 972.848456, 0.000000, 0.000000, 972.848456, 240.0, 0\\ 3415300, 1, 1, 0, 1, 0.060000, 58.370907, 972.848456, 0.000000, 0.000000, 972.848456, 240.0, 0\\ 3415300, 1, 1, 0, 1, 0.060000, 58.370907, 972.848456, 0.000000, 0.000000, 972.848456, 240.0, 0\\ 3415300, 1, 1, 0, 1, 0.060000, 58.370907, 972.848456, 0.000000, 0.000000, 972.848456, 240.0, 0\\ 3415300, 1, 1, 0, 1, 0.060000, 58.370907, 972.848456, 0.000000, 0.000000, 972.848456, 240.0, 0\\ 3415300, 1, 1, 0, 1, 0.060000, 58.370907, 972.848456, 0.0000000, 0.000000, 972.848456, 240.0, 0\\ 3415300, 1, 1, 0, 1, 0.060000, 58.370907, 972.848456, 0.0000000, 0.000000, 972.848456, 240.0, 0\\ 3415300, 1, 1, 0, 1, 0.060000, 58.370907, 972.848456, 0.0000000, 0.0000000, 972.848456, 240.0, 0\\ 3415300, 1, 1, 0, 1, 0.060000, 58.370907, 972.848456, 0.0000000, 0.0000000, 972.848456, 240.0, 0\\ 3415300, 1, 1, 0, 1, 0.060000, 58.370907, 972.848456, 0.0000000, 0.0000000, 0.0000000, 0.000000, 0.000000, 0.000000, 0.000000, 0.000000, 0.000000, 0.000000, 0.000000, 0.000000, 0.000000, 0.000000, 0.000000, 0.000000, 0.000000, 0.000000, 0.000000, 0.000000, 0.000000, 0.000000, 0.000000, 0.000000, 0.000000, 0.000000, 0.000000, 0.000000, 0.000000, 0.000000, 0.000000, 0.000000, 0.000000, 0.000000, 0.
```

Refer to Transactions and Tax Types for descriptions of the data in the generated file.

5.5.23 srtcommadetail.exe

COMMAND LINE

srtcommadetail [-z <pkzip executable>] outputfilename [nN] <-nocsf> <extralogfilename> [-cl]

DESCRIPTION

The srtcommadetail.exe command reads the log file specified in filelocs.txt and produces a comma delimited text file *outputfilename*.ssf for tax compliance filing and a fixed length text file *outputfilename*.csf for customer billing.

INPUT

Reads the *logfilename*.log file as defined by filelocs.txt or AFC Initialization Function. log.sum – optional input from previous run.

OUTPUT

Comma Delimited *outputfilename*.ssf file for tax compliance filing. Sorted and condensed by PCode, Tax Type, Tax Level, Tax Rate

Fixed Length *outputfilename*.csf file for customer billing. Sorted and condensed by Customer Number, Tax Type, Tax Level, Tax Rate

FILE FORMAT KEY

Country, State, County, Locality, PCode, Tax type, Tax Type Description, Tax level, Tax Level Description, Tax rate, Tax amount, Gross Sale, Exempt, Adjustments, Taxable measure, Minutes

Figure 5-27 srtcommadetail SSF File Format Key					
Description	Туре				
Country	Alpha				
State	Alpha				
County	Alpha				
Locality	Alpha				
PCode	Numeric				
Tax Type	Numeric				
Tax Type Description	Alpha				
Tax Level	Numeric				
Tax Level Description	Alpha				
Tax Rate	Numeric				
Tax Amount	Numeric				
Gross Sale	Numeric				
Exempt	Numeric				
Adjustments	Numeric				
Taxable Measure	Numeric				
Minutes	Numeric				

Figure 5-28 srtcommadetail CSF File Format Key								
Description Type Length Positions								
Customer Number	Alpha	20	1-20					
Tax Type	Numeric	6	21-26					
Tax Level	Numeric	1	27					
Tax Amount Sign	Alpha	1	28					
Tax Amount	Numeric	11.5	29-39					
File Record Length		39						

ARGUMENTS

- -z <pkzip executable> path to zip executable file*
- <output filename>
- n or N csf file is not sorted
- -nocsf csf file is not created
- extra log file name use instead of log.sum
- -cl creates a combined compliance log file with a .scl extension, containing both the billable and non-billable amounts instead of a separate log file for each.

NOTES:

- The Tax Rate field is sensitive to positive and negative values
- The log.sum file is NOT created
- WARNING EZTax.log is DELETED. Make backups in case reruns are needed.

SAMPLE DATA

```
USA, , , , , 0, 6, Federal Excise Tax, 0, Federal, 0.030000, 63.946941, 2131.564739, 0.000000, 0.000000, 2131.564739, 2376516.0
USA, CA, , , 253500, 9, P.U.C. Fee, 1, State, 0.001100, 0.072776, 66.159998, 0.000000, 0.000000, 66.159998, 155916.0
USA, CA, , , 253500, 10, E911 Tax, 1, State, 0.006500, 0.450252, 69.269518, 0.000000, 0.000000, 69.269518, 155916.0
USA, CA, , , 253500, 19, State High Cost Fund, 1, State, 0.024300, 1.607688, 66.159998, 0.000000, 0.000000, 66.159998, 155916.0
USA, CA, , , 253500, 21, CA Teleconnect Fund, 1, State, 0.001600, 0.105856, 66.159998, 0.000000, 0.000000, 66.159998, 155916.0
USA, CA, , , 253500, 60, CA High Cost Fund A, 1, State, 0.001500, 0.099240, 66.159998, 0.000000, 0.000000, 66.159998, 155916.0
USA, CO, , , 427200, 13, State Universal Service Fund, 1, State, 0.029000, 0.026172, 0.902500, 0.000000, 0.000000, 0.902500, 1920.0
USA, CO, DENVER, , 442100, 4, District Tax, 2, County, 0.001000, 0.000211, 0.210945, 0.000000, 0.000000, 0.210945, 246.0
```

Refer to Transactions and Tax Types for descriptions of the data in the generated file.

^{*} The pkzip executable option is only available with the windows platform.

5.5.24 srtrev20l.exe

COMMAND LINE

srtrev20l [-z <pkzip executable>] outputfilename <nN> <-p> <-s> <pcsf> <extralogfilename> [-cl] [-tc]

DESCRIPTION

The srtrev20l.exe command reads the log file specified in filelocs.txt and produces a comma delimited text file *outputfilename*.ssf for tax compliance filing and a fixed length text file *outputfilename*.csf for customer billing, separating adjustments. It is intended for use with log files created using the tax inclusive calculation functionality in AFC.

The .csf file is used for import into the billing system to populate customer bills. The commadelimited .ssf file is sorted at the jurisdictional level. The .ssf file also contains the number of lines.

INPUT

Reads the *logfilename*.log file as defined by filelocs.txt or AFC Initialization Function. log.sum – optional input from previous run or uses the extra log file name from the command line.

OUTPUT

Fixed Length *outputfilename*.ssf file for tax compliance filing. Sorted and condensed by PCode, Tax Type, Tax Level, Tax Rate.

Fixed Length *outputfilename*.csf file for customer billing. Sorted and condensed by Customer Number, Tax Type, Tax Level, Tax Rate, Tax Amount.

FILE FORMAT KEY

Country, State, County, Locality, Tax type, Tax level, Tax rate, Tax amount, Gross Sale, Exempt, Adjustments, Taxable measure, Minutes, Lines, Sale amount

WITH -p OPTION SPECIFIED

PCode, Tax type, Tax level, Tax rate, Tax amount, Gross Sale, Exempt, Adjustments, Taxable measure, Minutes, Lines

Figure 5-29 srtrev20l SSF File Format Key without –p option				
Description Type				
Country	Alpha			
State	Alpha			

Figure 5-29 srtrev20l SSF File Format Key without –p option				
Description	Туре			
County	Alpha			
Locality	Alpha			
Tax Type	Numeric			
Tax Level	Numeric			
Tax Rate	Numeric			
Tax Amount	Numeric			
Gross Sale	Numeric			
Exempt	Numeric			
Adjustments	Numeric			
Taxable Measure	Numeric			
Minutes	Numeric			
Lines	Numeric			
Sale Amount	Numeric			

Figure 5-30 srtrev20l SSF File Format Key with –p option					
Description	Туре				
PCode	Numeric				
Tax Type	Numeric				
Tax Level	Numeric				
Tax Rate	Numeric				
Tax Amount	Numeric				
Gross Sale	Numeric				
Exempt	Numeric				
Adjustments	Numeric				
Taxable Measure	Numeric				
Minutes	Numeric				
Lines	Numeric				
Sale Amount	Numeric				

Figure 5-31 srtrev20l CSF File Format Key							
Description	Туре	Length	Positions				
Customer Number	Alpha	20	1-20				
Tax Type	Numeric	6	21-26				
Tax Level	Numeric	1	27				
Tax Amount Sign	Alpha	1	28				
Tax Amount	Numeric	11.5	29-39				
Tax Category (optional)	Alpha	50	40-69				
Base Sale Amount (optional)	Numeric	8	40-47 or 70-77				
File Record Length		39, 47, 69, or 77					

ARGUMENTS

-z <pkzip executable> - path to zip executable file*

N or n – .csf file is unsorted

- -p add PCode to ssf file. Does not add PCode to csf file
- -s produce only the ssf. The .csf file is not created.
- -pcsf add PCode to csf file.
- extra log file name use instead of log.sum
- -cl creates a combined compliance log file with a .scl extension, containing both the billable and non-billable amounts instead of a separate log file for each.
- -tc adds the tax category description to the end of each line in the csf
- -b adds the base sale amount to the end of each linein the csf
- * The pkzip executable option is only available with the windows platform.

NOTES:

- The Tax Rate field is sensitive to positive and negative values
- The log.sum file is NOT created
- WARNING EZTax.log is DELETED. Make backups in case reruns are needed.

SAMPLE DATA

USA, , , , , 55, 0, 0.136000, 2.086860, 41.360000, 26.015440, 0.000000, 15.344560, 3.5, 0, 41.36
USA, , , , , 170, 0, 0.015000, 0.015000, 41.360000, 26.015440, 0.000000, 15.344560, 3.5, 0, 41.36
USA, PA, , , 44, 1, 1.000000, 1.000000, 0.000000, 0.000000, 0.000000, 3.5, 0, 41.36
USA, PA, ALLEGHENY, PITTSBURGH, 1, 1, 0.060000, 2.738097, 45.634953, 0.000000, 0.000000, 45.634953, 3.5, 0, 41.36
USA, PA, ALLEGHENY, PITTSBURGH, 1, 2, 0.010000, 0.456350, 45.634953, 0.000000, 0.000000, 45.634953, 3.5, 0, 41.36
USA, PA, ALLEGHENY, PITTSBURGH, 14, 1, 0.050000, 2.173093, 43.461860, 0.000000, 0.000000, 43.461860, 3.5, 0, 41.36

SAMPLE DATA WITH -p OPTION

0, 55, 0, 0.136000, 0.000000, 82.720000, 52.030880, 15.344560, 15.344560, 7.0, 0, 82.72 0, 170, 0, 0.015000, 0.000000, 82.720000, 52.030880, 15.344560, 15.344560, 7.0, 0, 82.72 3198500, 44, 1, 1.000000, 0.000000, 0.000000, 0.000000, 0.000000, 0.000000, 7.0, 0, 82.72 3206100, 1, 1, 0.060000, 0.000000, 91.269906, 0.000000, 45.634953, 45.634953, 7.0, 0, 82.72 3206100, 1, 2, 0.010000, 0.000000, 91.269906, 0.000000, 45.634953, 45.634953, 7.0, 0, 82.72 3206100, 14, 1, 0.050000, 0.000000, 86.923720, 0.000000, 43.461860, 43.461860, 7.0, 0, 82.72

Refer to Transactions and Tax Types for descriptions of the data in the generated file.

5.5.25 strg.exe

COMMAND LINE

strg outputfilename <extralogfilename> [-cl]

DESCRIPTION

The srtg.exe command reads the log file specified in filelocs.txt and produces a fixed length text file *outputfilename*.ssf for tax compliance filing. If the *extralogfilename* is specified, it is used for appending instead of the log.sum.

INPUT

Reads the *logfilename* file as defined by filelocs.txt or AFC Initialization Function. log.sum – optional input from previous run <n> - optional input superseding log.sum

OUTPUT

Fixed Length *outputfilename*.ssf file for tax compliance filing. Sorted and condensed by PCode, Tax Type, Tax Level, Tax Rate

FILE FORMAT KEY

Figure 5-32 strg SSF File Format Key							
Description	Туре	Length	Positions				
PCode	Numeric	9	1-9				
Tax Type	Numeric	6	10-15				
Tax Level	Numeric	1	16				
Tax Rate	Numeric	8	17-24				
Tax Amount Sign	Alpha	1	25				
Tax Amount	Numeric	11.5	26-36				
File Record Length		36					

ARGUMENTS

<outputfilename>

extralogfilename - optional input superseding log.sum

-cl creates a combined compliance log file with a .scl extension, containing both the billable and non-billable amounts instead of a separate log file for each.

NOTES:

WARNING - EZTax.log is DELETED. Make backups in case reruns are needed. Removes log.sum (or extra log)

SAMPLE DATA

0	1	2	3	
12345	67890123	456789012	234567890	123456
00000	00000000	060000030	000+00098	418707
00000	00000000	070000005	580+00018	387113
00000	00000000	18000003	180+00081	599822
00000	00000000	310000000	039+00001	000752

Refer to Transactions and Tax Types for descriptions of the data in the generated file.

5.5.26 upsize_log.exe

COMMAND LINE

upsize_log logfilename1.log logfilename2.log

DESCRIPTION

The upsize_log.exe command converts the short format *logfilename1*.log to a long format log *logfilename2*.log.

INPUT

First log file *logfileame1*.

OUTPUT

The output file produced is a log file with no format key as this is a log manipulation utility.

ARGUMENTS

None.

NOTES:

log.sum is NOT created. EZTax.log is NOT deleted.

Refer to Transactions and Tax Types for descriptions of the data in the generated file.

6. BATCH FILE PROCESSING

AFC allows company transactions to be taxed without directly interfacing AFC with the billing system using the batch_sau command line feature. Although system performance is excellent using the batch file processing method, it is less efficient than a direct interface in the following ways:

- 1. The billing system must provide an additional function that creates the AFC batch file.
- 2. AFC must read the batch-input file. With a direct interface, this is not necessary as the billing system itself will read all required data from databases or files in order to perform rating functions.
- 3. The billing system must read results of the AFC process for inclusion on end customer bills and journal entries in the users accounting system.

However, this method can be the most cost effective, and provide the quickest solution to tax compliance, depending upon the billing system in use and the level of technical expertise available. This is available to both AFC SaaS Standard and AFC on-site licensed product clients.

6.1 Batch Processing Description

Refer to Figure 6-1. The Batch processing method allows for transaction information in a pre-defined fixed length ASCII formatted file to be exported to and read by the AFC engine, without directly integrating to a billing system. The formatted file is submitted to the AFC Engine using the precisely defined format shown in Section 6.2. AFC processes the file and returns the taxes in a separate fixed length ASCII file generated by one of available utilities. This file can be imported by the billing system and viewed as a spreadsheet or other compatible software. The file contains key references, keyed per transaction or per account.

AFC automatically summarizes tax data generated based upon the key passed, thereby returning unique taxes per record or summarized results per customer. This simple method of interfacing is performed with relative ease and with little programming experience.

Avalara clients that perform billing on mainframe computers have also found this method beneficial because most mainframe users utilize a batch or batch-like billing process, which allows for easy insertion of a new taxation method. The taxation step is simply replaced with an export and an import process. When taxation is to be performed, all transactions are exported to a PC for taxation and the results are imported back into the mainframe.

CLIENT INPUT FILE EZTAX ENGINE

EZTAX ENGINE

EZTAX ENGINE

CLIENT OUTPUT FILE

OUTPUT FILE

UTILITIES

Figure 6-1 AFC Batch Mode Model

When using the batch utility, the location of the AFC Data Base must be specified by using the filelocs.txt file. The batch utility has built in edit functions to stop any erroneous data from being submitted to the tax engine or to warn you about possible problems and still allow the transaction to be processed. An output file is generated containing warning and error messages found during the run along with the line number of the transaction.

Clients submitting CDS files in Batch fashion automatically produce an EZTax.log file. The user may select from several utilities to create a .csf file to be imported back into the billing system. Refer to Section 5.1 for aid in output utility selection.

6.2 AFC CDS Input File Specifications

The CDS fixed length input file contains one or more data records comprised of the fields detailed in Figure 6-2. Note that a file containing this specification is provided with the monthly update.

Figure 6-2 CDS Client Input Data Specification

Figure 6-2 CDS Client Input Data Specification							
Column number	Data Description	Type	Len	Positions	Note		
1	FOB flag	N	1	0	0 if shipping point, 1if destination point		
2	Ship from jurisdiction	N	10	1-10	Originating PCode if flag=P Originating FIPS code if flag=F		
3	Ship from flag	А	1	11	Set to P if using PCode, or F if using FIPS code		
4	Ship to jurisdiction	N	10	12-21	Destination PCode if flag=P, Destination FIPS code if flag=F		
5	Ship to flag	А	1	22	Set to P if using PCode, or F if using FIPS code		
6	Customer type	N	1	23	'B' for Business, 'R' for Residential, 'I' for Industrial, 'S' for Senior Citizen		
7	Sale/Resale flag	А	1	24	'S' for sale, 'R' for resale		
8	Transaction type	N	6	25-30	See table of transaction types and service types		
9	Service type	N	6	31-36	See table of transaction types and service types		
10	Attribute	N	2	37-38	See table of attribute types		
11	Invoice date	N	8	39-46	Format "CCYYMMDD"		
12	Refund flag	А	1	47	'+ for normal transaction,'-' for refund, 'p' for tax inclusive calculation, 'm' for tax inclusive calculation refund		
13	Charge	N	11	48-58	Format "99999999999" zero filled, 5 decimal places, no decimal point		
14	Count	N	10	59-68	Number of items on invoice		
15	Incorporated flag	N	1	69	1 if customer is inside incorporated area, 0 if customer is outside incorporated area		
16	Fed exempt	А	1	70	'X' if call is exempt from federal taxes, blank otherwise		
17	State exempt	А	1	71	'X' if call is exempt from state taxes, blank otherwise		
18	County exempt	А	1	72	'X' if call is exempt from county taxes, blank otherwise		
19	Local exempt	А	1	73	'X' if call is exempt from local taxes, blank otherwise		
20	Customer number (primary output key)	A/N	20	74-93	Defines primary key for client summary data		
21	Freight property: paid to seller	N	1	94	0 for false, 1 for true		
22	Freight property: common carrier	N	1	95	0 for false, 1 for true		
23	Freight property: seller required shipping	N	1	96	0 for false, 1 for true		
24	Discount property: type	N	2	97-98	See table of discount types		
25	Finance property: type	N	1	99	See table of finance types		
26	Installation property: type	N	2	100-101	See table of installation types		
27	Shipping/handling property: seller required shipping	N	1	102	0 for false, 1 for true		

Column number	Data Description	Туре	Len	Positions	Note
28	Software maintenance property: seller required	N	1	103	0 for false, 1 for true
29	Software maintenance property: type	N	1	104	See table of software maintenance types
30	Software maintenance property: update type	N	1	105	See table of software maintenance update types
31	Service contract property: seller required	N	1	106	0 for false, 1 for true
32	Service contract property: type	N	1	107	See table of service contract types
33	Service contract property: sale type	N	1	108	See table of service contract sale types
34	Service contract property: item type	N	1	109	See table of service contract item types
35	Maintenance agreement property: seller required	N	1	110	0 for false, 1 for true
36	Maintenance agreement property: type	N	1	111	See table of maintenance agreement types
37	Maintenance agreement property: sale type	N	1	112	See table of maintenance agreement sale types
38	Maintenance agreement property: item type	N	1	113	See table of maintenance agreement item types
39	Factory warranty property: seller required	N	1	114	0 for false, 1 for true
40	Factory warranty property: agreement type	N	1	115	See table of factory warranty agreement types
41	Extended warranty property: seller required	N	1	116	0 for false, 1 for true
42	Extended warranty property: agreement type	N	1	117	See table of extended warranty agreement types
43	Extended warranty property: sale type	N	1	118	See table of extended warranty sale types

J=Taxing Jurisdiction Info. C=Customer Info. CO=Company Info. T=Transaction Info. T/S=Transaction/Service type M= Misc. R=Required, O=Optional

Each field within a record contains information specific to one of three categories; Taxing Jurisdiction Identification, Customer and Transaction (see Table 6-1). These four categories are addressed in detail in the following subsections.

Table 6-1 CDS Categories						
Taxing Jurisdiction	Customer Trans	action Information				
Identification Information	Customer Information	Transaction Information				
FOB	Customer Type	Sale/Resale flag				
Ship-From	Incorporated Flag	Transaction Type				
Ship-From Flag	Fed Exempt	Service Type				
Ship-To	State Exempt	Attribute/Properties				
Ship-To Flag	County Exempt	Invoice Date				
	Local Exempt	Refund Flag				
	Customer Number (Primary Output Key)	Charge				
		Count				

6.2.1 Taxing Jurisdiction Identification Information

The Ship-From, Ship-From Flag, Ship-To, and Ship-To Flag fields of the record are discussed in this section.

The batch interface method is designed to allow for the transaction ship-from and ship-to points to be entered as PCodes or FIPS Codes in the first fields of the transaction record. (Note that there are advantages to using the PCode as described in Section Error! Reference source not found.).

- 1. PCodes are proprietary permanent jurisdiction codes created by Avalara that allow AFC software users to populate their databases with proper jurisdiction assignments. When jurisdiction codes change, they are re-mapped by Avalara and the PCode is updated, providing clients with up to date information without making any changes themselves. The PCode is the preferred method of assigning and maintaining jurisdiction identification, and the time invested in including PCodes into your database records will pay off with increased accuracy and reliability.
- 2. FIPS codes are described in section FIPS Codes.

6.2.1.1 Ship-From

The shipping location of the transaction to be taxed. It can be filled with the PCode or FIPS Code.

6.2.1.2 Ship-From Flag

The Ship-From Flag specifies the configuration of the information in the Ship-From field. This field should contain P if the Ship-From is in PCode format or F if the Ship-From is in FIPS format.

6.2.1.3 Ship-To

The destination location of the transaction to be taxed. It can be filled with the PCode or FIPS Code.

6.2.1.4 Ship-To Flag

The Ship-To Flag specifies the configuration of the information in the Ship-To field. This field should contain P if the Ship-From is in PCode format or F if the Ship-From is in FIPS format.

6.2.2 Customer Information

The transaction customer information is supplied using the following fields; Customer Type, Incorporated Flag, Fed Exempt, State Exempt, County Exempt, Local Exempt, Federal Exemption JCode, State Exemption JCode, County Exemption JCode, Locality Exemption JCode, and Customer Number.

6.2.2.1 Customer Type

This field is used to specify the type of customer involved in the transaction. The Customer Type is selected from one of the following four options.

Business – When transactions are made at a place of business.

Residential – When transactions are made by a customer for home use.

Industrial – When transactions are made at an industrial business.

Senior Citizen – When transactions made by a customer meeting the jurisdiction requirements to be considered a senior citizen and qualify for senior citizen tax breaks.

6.2.2.2 Incorporated Flag

The Incorporated Flag field is used to specify whether the customer involved in this transaction is inside (specified with an "I" in the one character length field) or outside (specified with an "O" in the one character length field) of the incorporated area designated as their location. The tax may or may not be affected by this designator depending upon whether or not the unincorporated areas are taxed in the same manner as the incorporated areas.

6.2.2.3 Exemption Levels

The exemption level is the jurisdictional level of the taxing authority that defines the tax. It is used to exempt taxes at specific federal, state, county and/or local taxes.

Fed Exempt

The Federal Exempt field is used to specify a Federal level tax exemption.

State Exempt

The State Exempt field is used to specify a State level tax exemption.

County Exempt

The County Exempt field is used to specify a County level tax exemption.

Local Exempt

The Local Exempt field is used to specify a Local level tax exemption.

6.2.2.4 Customer Number (Primary Output Key)

The Primary Output Key (POK) is a 20-character text field that is not manipulated during processing and stored as part of the log file record.

It can be used as part of the sorting key (see Figure 6-3) when using some utilities, allowing for the combining of records based upon this and other fields. It is useful when it is desired to have like taxes from different transactions combined, to have taxes from each transaction detailed individually in a report or to have each transaction detailed at the customer level.

Figure 6-3 Primary Output Key

Uniquekey.cds

0	1248900P20	009108550FRS	34	106 (020100815+	100000000	11	BillSoft,	Inc.	-	1
0	1248900P	1248900PRS	34	106 (020100815-	100000000	11	BillSoft,	Inc.	-	2
0	1248900P	1248900PRS	34	106 (020100815p	100000000	11	BillSoft,	Inc.	-	3
0	1248900P	1248900PRS	34	106 (020100815m	100000000	11	BillSoft,	Inc.	-	4
U	niquekey.c	esf	Billson Billso	oft,,,oft,,,,oft,,,,,,,,,,,,,,,,,,,,,,,	Inc1 Inc1 Inc1 Inc1 Inc2 Inc3 Inc4 Inc5 Inc5 Inc5 Inc5 Inc5 Inc6 Inc6 Inc6 Inc6 Inc6 Inc7 Inc7	0000011+0000 0000012+0000 0000013+0000 0000102+0000 0000131+0000 0000060+0000 0000060+0000 0000013+0000 000013+0000 000012+0000 000012+0000 000012+0000 000012+0000 000012+0000 000013+0000 0000013+0000 0000131+0000 0000131+0000	01664 00345 00035 00094 000595 00000 00000 00000 00000 00011 00002 00004 000097 00094 00094	465 549 335 226 900 900 136 915 936 937 938 939 140 138 940 140 140 140 140 140 140 140 1			

Primary Output Key

Combined taxes

If you would want like taxes combined at the customer level, then you specify a like POK for the records you want combined.

Samekey.cdf

0	1248900P20	009108550FRS	34	106 020100815	+ 10000000	11	BillSoft,	Inc.
0	1248900P	1248900PRS	34	106 020100815	- 10000000	11	BillSoft,	Inc.
0	1248900P	1248900PRS	34	106 020100815	o 100000000	11	BillSoft,	Inc.
Ω	1248900₽	124890000	34	106 020100815	m 100000000	11	BillSoft	Inc

Samekey.csf Billsoft, Inc. Billsoft, Inc.

Primary Output Key

6.2.3 Transaction Information

The transaction information is contained in fields found in the transaction record. The Sale/Resale Flag, Transaction Type, Service Type, Attribute/Properties, Invoice Date, Refund Flag, Charge, and Count fields of the record are discussed in this section.

6.2.3.1 Sale/Resale Flag

Transactions may be taxed differently if the sale is to a retail customer or to a wholesale customer, who will sell the item again.

Companies are taxed on transactions made by their clients, which in some cases can be passed on or "resold" to their customers in part or in total. The Resale (wholesale) flag is used to indicate whether the product or service transaction is final or if it is to be resold.

To have exempt taxes available for reporting, exemption type 3 (Sales For Resale) should be used in combination with Resale.

6.2.3.2 Transaction Type

Refer to Section 2.6 Mapping Transactions for details of this field.

6.2.3.3 Service Type

Refer to Section 2.6 Mapping Transactions for details of this field.

6.2.3.4 Attribute/Properties

Refer to Section 4.4 Sales and Use for details of these fields.

6.2.3.5 Invoice Date

The Invoice Date is normally populated with the bill date. Generally accepted accounting principles dictate that liabilities should be recorded when revenues are recorded. In most cases, neither of these is recorded (or even known) until billing occurs.

AFC compares this date to the effective date of each tax that applies to the transaction.

- If the date passed to AFC is "equal to" or "greater than" the effective tax date, the current tax rate is used.
- If the date passed to AFC is prior to the effective date, the tax rate in effect for the tax is used to generate the tax amount applicable to the transaction.
- If a transaction is passed to AFC without a date (that is, the date is set to zero), AFC will set the date to the current date.

Note: The invoice date passed to the server in the transaction by default is preserved as is. It is recommended that clients not use time zone modifiers on the invoice date.

6.2.3.6 Refund Flag

The Taxable Amount Sign field is filled with either a "+" (plus) sign to indicate a charge or a "-" (minus) sign to indicate a refund or credit. In addition, the letters "p" (plus) and "m" (minus) are respectively used to indicate the appropriate refund or credit on tax inclusive calculations.

6.2.3.7 Charge

The Charge field specifies the amount of the transaction to be taxed. This amount will be passed through AFC to rate the tax based on the specified transaction/service pair. In addition, when performing a tax inclusive calculation, the taxable or charge amount entered by the user must reflect the desired total charge plus the total tax returned (i.e. revenue + total tax).

6.2.3.8 Count

Number of items in the transaction.

6.3 Federal or State Exclusion

The Federal or State Exclusion option allows the EZTax_20 user to prevent federal and/or state (or province) and all lower jurisdictions including county, and local taxes from being created for Call Detail Records (CDRs) from specified countries or states. If excluding a state, the Federal taxes will be calculated from CDR records that have been designated for state exclusion. If excluding a country, no taxes, including federal taxes, will be calculated.

When running AFC in batch fashion it checks for the exclude.txt file. If the file exists, the state and country jurisdictions listed in the file will be excluded. For state exclusions, state, county and local taxes are excluded. For country (federal) exclusions, country, state, county and local taxes are excluded.

If the file does not exist, the plain ASCII text file "exclude.txt" federal/state exclusions file can be created. Please reference **Section 1.5 Exclusion Configuration File** in the **AFC Manager User Manual** for additional details and instructions on creating exclusion files.

6.4 Accumulating the Log

For AFC users that run using the batch processing to do billing daily, the EZTax.Log needs to be accumulating to run the sorting utility at the end of the month to create a tax compliance file.

Daily:

- 1. Run the taxation on *.CDS file.
- 2. Archive the EZTax.Log file to another location on the system.
- 3. Run the sorting utility executable. *.CSF is used for current client billing. The optional *.SSF file is intended for end of the month tax compliance filing and can be ignored if generated.
- 4. The next taxation run of the *.CDS file will produce a new EZTax.Log file when using some utilities since it has been emptied by the previous sorting utility.

Monthly:

BillSoft supplies the EZTaxappend and extaxappendf executable utilities that can be used to combine logs into a single monthly log file. At the end of the month, select the utility that best fits your requirements and combine the appropriate achieved log files. This will produce the tax compliance file .ssf file. The optional .csf file is intended for use by billing clients and can be ignored if generated.

6.5 batch sau Utility Specification

COMMAND LINE

batch sau inputfilename.cds

DESCRIPTION

The batch_sau command is a processing utility designed to accept records submitted in batch fashion. Records are supplied as an ASCII formatted file *inputfilename.cds*.

INPUT

Reads the inputfilename.cds ASCII text file

OUTPUT

EZTax.Log – as defined by filelocs.txt.

Read_err.st – any errors found while editing input file are reported here.

Billing.log – date/time stamp log (appended to).

Bureau_log – run totals (appended to).

EZTax.sta – status

inputfilename.rpt – break down by totals (not for compliance filing).

FILE FORMAT KEY

Refer to Figure 6-2 CDS Input Data Specifications

ARGUMENTS

input filename is the cds file with input records

NOTES:

The transactionservice.exp file must be in the AFC working directory.

EZTax.log is not deleted.

Filelocs.txt MUST be in the working directory.

7. The C/C++ API

The software for AFC is written in C/C++ and is delivered as an executable, creating a flexible programming environment. The AFC engine operates independently from the client's billing system allowing it to be easily integrated using APIs. Making use of the AFC API functions is the most efficient interface to the AFC Engine and there is very little performance difference when running the AFC taxation generation.

To integrate with AFC, programmers simply link with it and interface through a standard and well documented set of API calls. Programmers can typically perform the integration of AFC with a billing system by utilizing the documentation. If questions should arise, Avalara provides unlimited phone support for the integration of AFC and provides consulting services if desired.

Many AFC clients have accomplished integration in a matter of days and indicated that the effort with their previous system took from three months to a year. Many companies spend multiples of the yearly license cost to integrate with competing products, enduring long periods of inoperability during the integration process. The product is delivered as a DLL, shared library or shared executable allowing upgrades and enhancements of AFC to be accomplished by simply replacing a file.

Furthermore, the AFC API provides a rich and complete set of interfaces for taxation. In addition to taxation APIs, it provides the ability to do adjustments, refunds, debits, prepaids, overrides, jurisdiction information conversions and database interfaces. The APIs allow taxation using jurisdictional information provided by jurisdiction codes, NPANXX, address and zip codes.

AFC API calls are descriptively named for easy identification and selection. For instance, functions that end with "JCode" or "J" are Jurisdiction Code functions. Similar naming standards are maintained for the "PCode," "Zip", and "Fips" functions.

7.1 Language Interfaces for AFC

AFC is written in C/C++ code. Interfaces to other software languages are provided that add another DLL for the translation from C/C++ to that other language.

AFC supports interfaces to Java, the Microsoft .NET family, RPG, COBOL and Microsoft VB6.

7.2 Configuration

Avalara offers all programs and file updates through a client login site, allowing for the download of a zip file containing the installation or update files. After an order is processed, the download zip file will be placed in the company's user folder. Check this folder regularly for new downloads, updates and announcements about Avalara's products and services.

The install wizard suggests a default file folder organization (refer to the AFC Installation Manual). Avalara encourages the use of the default settings to simplify the monthly update procedure. Changing the default settings will require a modification of each monthly update in order for it to it to adhere to the modified file folder organization, increasing the possibility of errors and poor performance.

The include files (header files) directory and the lib file must be incorporated into the C/C++ compiler and linker and the appropriate include files must be added to your source code to access the Avalara constants and structures. These files are in the same folder as the DLL.

7.2.1 Filelocs.txt File

AFC installs the Filelocs.upd file. This file must be moved to your working directory and renamed to filelocs.txt. Windows Explorer should be set to show file extensions so that there is no confusion between the two files. The Filelocs (File Locations) file (see Table 7-1) contains the paths to the files used by AFC.

Table 7-1 Filelocs.txt Example							
PATH	DESCRIPTION						
C:\BillSoft\EZtax\Data\EZTax.dat;	INPUT:	EZtax Data file					
C:\BillSoft\EZTax\Data\EZTax.idx;	INPUT:	EZtax IDX file					
C:\BillSoft\EZTax\Data\EZTax.dll;	INPUT:	EZtax DLL file					
EZTax.log;	I/O:	EZtax log file					
C:\BillSoft\EZTax\Data\EZTax.npa;	INPUT:	EZtax NPANXX cross reference file					
EZTax.sta;	OUTPUT:	EZtax status file					
tmp77777.dat;	I/O:	EZtax temporary file					
C:\BillSoft\EZTax\Data\EZDesc.dat;	INPUT:	EZtax location description file					
C:\BillSoft\EZTax\Data\EZZIP.dat;	INPUT:	EZtax ZIP Code file					
C:\BillSoft\EZTax\cust_key;	I/O:	EZtax customer key file					
C:\BillSoft\EZTax\Data\EZTax.pcd;							
C:\BillSoft\EZTax\Data\EZTax.jtp;							

7.2.2 Filelocs.sta File

The Filelocs.sta file will be created by EZTaxInitEx when the file paths are not provided or incomplete, and if EZTaxInitEx cannot find Filelocs.txt in the current working directory. The directory where Filelocs.sta is created is the working directory that AFC is using, and this is where Filelocs.txt should be placed. Copy the Filelocs.upd file that is distributed with the AFC monthly update, rename it to Filelocs.txt, edit the locations to match your configuration, and rerun your application.

AFC produces two .sta files:

- filelocs.sta
- F7Tax.sta

In addition, the utilities can produce:

- log file.sta
- read_err.sta

All the files except EZTax.sta are normally zero length. Any other size indicates a problem. Refer to Table 7-2 for an example of the output in EZTax.sta.

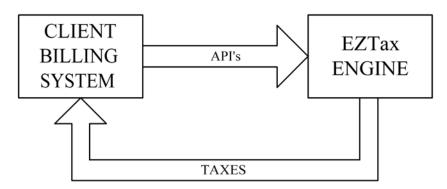
```
Table 7-2 EZTax.sta Example
04/14/09 07:40:08.240 <Info>: EZtax Version Number: 9.8.0.4, platform = Windows!
04/14/09 07:40:08.240 <Info>: work dir = <>
04/14/09 07:40:08.240 <Info>: Data = <d:/EZTax9/DbFiles/EZTax.dat>
04/14/09 07:40:08.240 <Info>: ldx
                                   = <d:/EZTax9/DbFiles/EZTax.idx>
04/14/09 07:40:08.240 <Info>: DII
                                  = <d:/EZTax9/DbFiles/EZTax.dll>
04/14/09 07:40:08.240 <Info>: Log
                                  = <EZTax.log>
04/14/09 07:40:08.240 <Info>: Npa = <d:/EZTax9/DbFiles/EZTax.npa>
04/14/09 07:40:08.240 <Info>: Status = <EZTax.sta>
04/14/09 07:40:08.240 <Info>: Ovrd = <tmpfile.dat>
04/14/09 07:40:08.240 <Info>: Desc = <d:/EZTax9/DbFiles/EZDesc.dat>
04/14/09 07:40:08.240 <Info>: Zip
                                   = <d:/EZTax9/DbFiles/EZZIP.dat>
04/14/09 07:40:08.240 <Info>: Cust = <d:/EZTax9/DbFiles/cust key>
04/14/09 07:40:08.240 <Info>: PCode = <d:/EZTax9/DbFiles/EZTax.pcd>
04/14/09 07:40:08.240 <Info>: JCode = <d:/EZTax9/DbFiles/EZTax.jtp>
04/14/09 07:40:08.240 <Info>: FIPS = <>
04/14/09 07:40:08.240 <Info>: PCDFIPS = <>
04/14/09 07:40:08.240 <Info>: Ovr
04/14/09 07:40:08.240 <Info>: Bundle = <EZTax.bdl>
04/14/09 07:40:08.240 <Info>: Nexus = <>
04/14/09 07:40:08.240 <Info>: Exclusion = <>
04/14/09 07:40:08.318 < Info>: no supplemental files inserted
04/14/09 07:40:08.364 <Info>: PCODE file closed, 0 PCODE records not found
04/14/09 07:40:08.364 <Info>: JCODE file closed, 0 JCODE records not found
04/14/09 07:40:08.364 <Info>: Closing EZtax session 337ba0
```

7.3 General Overview of AFC API Integration

When integrated using the C/C++ APIs, the AFC Engine operates independent of the client's billing system giving the client more options. The engine is designed to allow passing of data through the program rather than integration with the client's billing system.

Refer to Figure 7-1. With the Application Programmer Interface (API), the billing system passes transaction information to the AFC Engine as it is being rated for billing. AFC accepts the transaction information, calculates all of the required taxes and returns the generated tax information to the billing system.

Figure 7-1 AFC API Model



Refer to Figure 7-2 Figure 7-2. In addition to calculating and generating tax information, the AFC Engine can store all of the generated tax data in AFC database log files. Utilities are provided for performing data manipulation and generating reports that facilitate tax filing and provide insight to the rating, billing and taxing processes.

Current
Tax Information
EZTax Engine

Log Data

Log Data

Tax Log Data

Utilities

Customer and
Compliance
Filing
Tax Reports

Figure 7-2 AFC Engine

7.4 Detailed Discussion of AFC API Integration

Avalara, Inc. provides a multi-threaded dynamic link library that is utilized to interface with AFC software. Integration of an API interface opens the full capabilities of AFC.

Refer to Figure 7-3. The AFC Engine primarily accepts transaction information from the customer billing system and returns the taxes associated with the transaction. However, it can also be used to perform the following functions:

- 1. Perform tax adjustments.
- 2. Supply Jurisdiction information and JCodes based on address, Zip Code or Fips information.
- 3. Supply Jurisdiction information, address information, and convert JCodes to PCodes and PCodes to JCodes.
- 4. Return Tax information based on Transactions.

7.4.1 Tax Adjustments

Adjustment information is returned to the billing system and is utilized to update tax data for report generation and compliance filing. AFC also provides facilities that allow users to insert tax overrides and exempt a transaction from taxes at federal, state, county and local authority levels. In addition, AFC also provides the capability to limit exemptions to a specific jurisdiction and to exempt specific taxes.

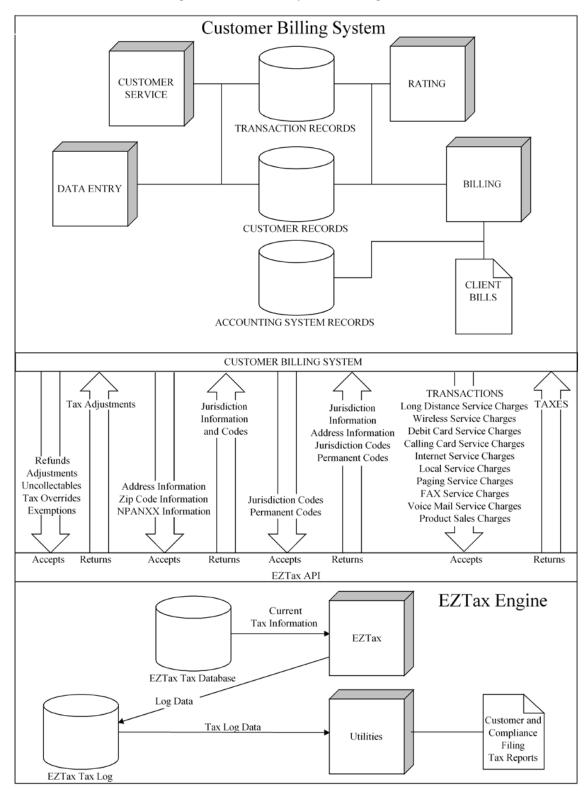
7.4.2 Obtaining Jurisdiction and Address Information From JCodes and PCodes

The AFC Address Database is available to obtain the address of a specific JCode or PCode. This is normally not used during the AFC session as the billing system normally has address information required for billing. AFC uses this database when generating reports for tax filing. The Address Database interface is provided as a valuable tool to Avalara customers.

7.4.3 Obtaining Tax Information From Transactions

AFC accepts transaction information and returns taxes to the Customer Billing System. Refer to Section **Error! Reference source not found.** for a detailed description of this process.

Figure 7-3 AFC API Operation Diagram



7.5 Preparing the AFC Application Programmer Interface (API) Interface

This section defines the steps required to interface AFC directly with a billing system. With this interface, the billing system passes transactions to AFC as they are being rated or billed. AFC calculates all required taxes and returns the tax information to the billing system per transaction. In addition, AFC stores all tax data generated in its databases and provides reports that facilitate tax filing and provide insight to the rating, billing and taxing processes.

AFC functions are included in the dynamic link library EZTax2.lib. To access AFC functions, this library must be accessible when building the executable for the billing system at either link or executable build time. When using the DLL, EZTax2.dll must be in a location that will allow the system to load the DLL.

To use the AFC Engine in a C or C++ code environment, the include file directory and the lib file must be incorporated into the client C/C++ compiler and linker.

- 1. The include file directory is in the same folder as the dll found at C:\BillSoft\EZTax\dll if you installed using the default directory. Add this folder to the include folders for your C++ compiler.
- 2. Add the following include files located in the dll folder to your source code in order to access the Avalara constants and structures.
 - a. EZTaxSauStruct.h Provides data structures required to interface with the Sales and Use module of AFC. Refer to Appendix D for the detailed structure.
 - b. EZTaxStruct.h Provides data structures required to interface with AFC. Refer to Appendix A for the detailed structure.
 - c. EZTaxSauDefine.h Provides data constants required to interface with AFC. Refer to Appendix E for the detailed structure.
 - d. EZTaxDefine.h, EZTaxTransType, EZTaxServType, EZTaxTaxType.h, EZTaxServType.h, EZTaxCountryType.h, EZTaxStateType.h Provides data constants required to interface with EZtax. Refer to Appendix B for the detailed structure.
 - e. EZTaxSauProto.h Contains function prototypes. Refer to Appendix F for the detailed structure.
 - f. EZTaxProto.h Contains function prototypes. Refer to Appendix C for the detailed structure.
- 3. Add the selected include files and the lib file to your project file list if you wish to use editing tools such as Microsoft Visual Studio to perform code completion based on the structure members.

7.6 AFC API Function Calls

An AFC session is started with a call to one of the initialization routines (EZTaxInitEx or EZTaxInitExMT, usually) to initialize the task. APIs are called to perform specified AFC functions that achieve the desired results of the session.

Once all transactions are completed, EZTaxExitSessionEx must be called for each session started to flush database buffers, de-allocate memory and perform other clean-up duties which free up resources utilized by AFC. Sessions must be completed by a call to EZTaxExitSessionEx at least once per tax filing period to insure that the tax log is properly configured and complete before utilities that generate filing information are started.

7.6.1 Retrieving Taxes

7.6.1.1 The AFC Tax Table

The AFC table is allocated during AFC session initialization. The size of this table is dependent upon the maximum taxes that can be generated for a single transaction. As such, the size of this table can change from month to month as new taxes are generated or removed from taxing jurisdictions. It is always safe to access from 0 (zero) to [tax_count_returned -1] locations of the table. The user is cautioned to treat this as a read only area. Attempting to access locations that do not exist will result in access violations on most operating systems.

Each function that performs tax calculations or adjustments returns a count of the taxes generated for the transaction and stores the taxes in the Tax Table. The taxes can be retrieved for storage in a billing system by using the taxes_tbl struct pointer, which is activated when EZTaxInitEx is called. The pointer to the AFC table can be used to select a tax from the array of taxes_tbl objects using the following code.

```
{
    int index;
    double tax;
    tax = EZTax_table[index].tax_amount;
}
```

7.6.1.2 Sample Code to Retrieve Taxes

To retrieve taxes generated, the following code segment (shown without proper status checking) can be used with the DLL:

```
#include <BillSoft/EZTaxDefine.h>
#include <BillSoft/EZTaxProto.h>
#include <BillSoft/EZTaxStruct.h>
main()
   short int
                             i;
   short int
                             tax count;
   int
                             err_code;
   double
   struct enhanced_taxes_tbl *EZTax_table;
   struct sau_J_Code
                             transaction;
   EZTaxSession
                             session;
   EZTax_table = EZTaxInitEx(FALSE, NULL, &session);
// initialize the transaction here
   tax_count = EZTaxSAUJCode(session, &transaction,
         NULL, 0, &err_code);
   if (tax_count > 0)
      for(i=0; i<tax count; i++)</pre>
         tax = EZTax_table[i].tax_amount;
// Perform billing system task or store tax data
   EZTaxExitSessionEx(session);
```

7.6.2 Multi-Threading

A user can process multiple sessions in separate threads (referred to as multi-threading) with AFC. This technique increases the processing speed and efficiency of the client billing system because each thread can start an independent AFC session and call the specified AFC functions.

For example, if there is a requirement to compute a customer's taxes on calls and services, and also to offer tax quotes, then one session can be setup with tax logging turned on to calculate the customer's bills while another session is established with tax logging turned off to offer tax quotes without the results being logged.

Another example would be to allow the client's billing system to process more than one customer base on the same run, with each customer base using a separate session. In addition, the capability exits to specify that each session will have a unique tax log in order to produce separate logs at session start up.

7.6.2.1 The latest in version 9

The latest version of AFC 9 features enhanced support for applications that use AFC in a multi-threaded environment. Applications that want to take advantage of this new support should adhere to the following guidelines:

- 1. AFC supports concurrent processing on separate threads by assigning each thread its own EZTaxSession object. Usage of the same EZTaxSession by multiple threads is not supported and will result in unpredictable and erroneous tax calculations.
- 2. Each separate EZTaxSession object should have a unique AFC log file if tax logging is enabled for that session.
- 3. Each separate EZTaxSession object should have a unique status file.
- 4. When opening AFC, use the new "EZTaxInitExMt" method. Users who previously initialized AFC using EZTaxInitEx will have one additional parameter to provide a string that contains the directory name to be used as the AFC Default directory. If this string is NULL, AFC will continue to look in the Working Directory of the application for EZTax.cfg and filelocs.txt. Otherwise, AFC will search the supplied directory name for EZTax.cfg and filelocs.txt.
- 5. When an AFC Session is no longer needed, be sure to call EZTaxExitSessionEx with the AFC Session object obtained from EZTaxInitExMt. Sessions that are opened with EZTaxInitExMt will not be closed when EZTaxExit is called, and failure to call EZTaxExitSessionEx will result in a memory leak.

- 6. Certain functions will not work if a session is created with EZTaxInitExMt. These include EZTaxGetHandle, which translates an EZTaxSession object to an integer handle. Since the corresponding handle is not created by AFC when using the new EZTaxInitExMt method, functions that take an integer handle argument cannot be used against a multi-threaded session.
- 7. Other functions that take no handle or session object are also not supported, including:
 - a. EZTaxPtoFips (use EZTaxPtoFipsEx)
 - b. EZTaxJtoPCode (use EZTaxJtoPCodeEx).

When sessions have been initialized by EZTaxInitExMt, an attempt to use these functions will return an error code and will not work.

8. A new function has been added to AFC so that sessions created by EZTaxInitExMt will have the functionality of AFC without resorting to an integer session handle. EZTaxOldOvrJCode allows users to use the old override structure with an EZTaxSession object.

Users that start all their sessions before any separate threads are started and before any tax calculations are performed can continue to use EZTaxInitEx, or the new function EZTaxInitDirEx. EZTaxInitDirEx provides the name for the Default AFC directory, exactly like EZTaxInitExMt. Neither of these functions is thread-safe, but the subsequent processing against the EZTaxSession objects created by these functions is thread-safe.

If one or both of these non-thread-safe functions are used to initialize all EZTaxSession objects, EZTaxExit will continue to close any open EZTaxSession objects without the need for a specific call to EZTaxExitSession for each EZTaxSession object.

7.6.3 Multiple Sessions

When using the APIs, a session is started with a call to EZTaxInitExMT. Successive calls to EZTaxInitExMT will initialize additional sessions, thereby accomplishing multi-threaded operation.

AFC writes compliance information to the EZTax.log file. The compliance logging function can be enabled or disabled with each session and each session controls its own log file. The Log records are kept in the memory to improve the efficiency and are written to the disk periodically. Several techniques can be used to control when the log is written to disk, although many applications do not need any special handling of the compliance log.

Overrides may be used with multiple sessions as each session will maintain its own overrides. The override can be specified by JCode, PCode, and Zip Code. Since each session has its own override, the user can remove the override from a session by using the call EZTaxRestoreEx.

Each Session must have a separate Log File
Each Session should have a separate temporary File - and this is required if that session applies
overrides to the tax table
Each session can have separate files for other options if desired

7.6.4 Session Management

Several functions call EZTaxGetHandle to create session handles into memory pointers. Utilizing the session handle from the memory improves operating efficiently. The session handle references AFC sessions. It is a long integer that is pulled from a stack of unused session handles setup during the EZTaxInitEx call.

EZTaxInitEx returns a void pointer type to the session memory and is defined as EZTaxSession. Each time a session is initialized through EZTaxInitEx the session pointer is placed on a dynamically allocated stack.

The File Path structure (see Appendix B EZTaxDefine.h) provides the ability to override any file path specified in the filelocs.txt configuration file programmatically. A subset of the paths can be overridden by specifying "NULL" for paths where the default is to be maintained. An address to this structure can be specified when initializing a session with EZTaxInitEx.

7.6.4.1 General Tips to Maintain Session Efficiency

When using sessions to make calls to the database, it is important to maintain the performance level between the billing system and the AFC engine.

The following tips have been accumulated to assist users in maintaining session efficiency.

- 1. Some calculations, such as requests for quotes from the Sales department, might not be appropriate to log to the compliance files. Open a separate session for quotes with no logging to achieve this.
- 2. If calculations have special tax rates that require an override of the AFC database, open a separate session (with a separate log file and temporary file) for the override calculations.
- 3. If the application terminates all sessions at the end of a billing cycle, the normal session completion will save all of the compliance data to the disk.
- 4. The EZTaxFlushToLogEx API can be used if more control of the log file is needed. Some specialized applications call EZTaxFlushToLogEx after every call to one of the tax calculations, to ensure that the disk copy of the log is always completely up-to-date.
- 5. Using the EZTaxExitSessionEx to control the log will close the session and save the compliance data to the log. If all sessions are complete then EZTaxExit will perform the same function for each session open.
- 6. Higher efficiency levels are obtained if you have sufficient memory (approximately 10 MB per session) to "CACHE_ALL." Using the memory CACHE improves the processing speed many times over.
- 7. The maximum number of sessions is 500.
- 8. If multiple users want to perform tax calculations simultaneously (such as a Web application) then use Session Pooling (Refer to 7.6.5).

7.6.5 Session Pooling

Session pooling is a resource managing tool that allows for multiple sessions to be held in a "pool" where each can be checked out, processed and returned one at a time.

It is modeled after the office "steno pool" where instead of assigning a stenographer to a department, a department would request one from the pool. The stenographer would leave, take the dictation and return to the pool waiting for the next call. The concept was that a company might have only 5 stenographers, but 20 departments that needed stenography service. If 20 stenographers were hired, they would probably be sitting around with no work for 75% of the work day. The drawback is that sometimes all 5 will be checked out of the pool, and a department will have to wait for a stenographer to return.

Session pools work in exactly the same manner. A transaction comes in that needs to be processed, a session is grabbed from the pool, the session processes the transaction, and the session is returned to the pool. If a second transaction comes in before the first transaction has completed, it gets the second session from the pool. The AFC Web service has multiple sessions in the session pool to handle about 20 customers of AFC SaaS Pro.

The application should be structured in the following manner:

- 1. Create the number of sessions required.
- 2. Store the session handles in a memory table with a "use flag."
- 3. When a tax calculation is required, search the table to find a handle that is not in use.
- 4. Set the use flag to on indicating the session is "in use".
- 5. Perform the tax calculation.
- 6. Set the use flag to off, indicating the session is "not in use".

7.6.5.1 General Tips When Using Session Pooling

The following tips have been accumulated to assist users when using Session Pooling.

- 1. Periodically call EZTaxFlushToLogEx on each session to update the EZTax.log for each open session.
- 2. If there are more than 10 concurrent users the pool of sessions can be permitted to grow dynamically for greater flexibility.
- 3. The use of Invoice Mode and overrides is prohibited since the session obtained for the next transaction is unknown. Invoice Mode could be used if the session was held for all of the customer's transactions.

7.7 Sample Coding

The following sample code listings have been accumulated to assist users in performing specific tasks.

7.7.1 Using EZTaxGetRates to Build an Override

The Get Rates function can be used to accomplish an override using the following steps.

1. Call EZTaxGetRates with the desired PCode for the jurisdiction

```
Call objEZTax.EZTaxGetRates(glHandle, OLATHE PCODE, taxes)
```

2. Search the taxes Table returned in the Jurisdiction Data to find the desired Enhanced Override for your tax type and level. This example searches for the state sales tax.

3. Using the Enhanced Override object found, make the appropriate changes

```
If foundSalesTax Then
  effectiveDates = stateSalesTax.dateTable
  Set currentEffectiveDate = effectiveDates(0)
  rates = currentEffectiveDate.rateTable
  Set currentRate = rates(0)
  currentRate.tax = 0.04
```

4. Apply the override to AFC

```
Call objEZTax.EZTaxOvrJCodeEx(glHandle, OLATHE_JCODE, stateSalesTax)
Call printMessage("Rate changed to 4%")
End If
```

7.7.2 EZTaxSetNexus

EZTaxSetNexus allows applications the API functionality to set the nexus table that is to be used for Sales and use functions. This API sets the session's nexus table as requested by the user. If the user passes in a NULL table, the session's current nexus table is removed. The session nexus table is used when the transaction nexus table is NULL.

The purpose of this API is to be able to set the nexus once for the entire session and not need to pass it in on a transaction basis.

The following example code is supplied to aid in understanding how this function is to be used.

```
EZTaxStart();
    taxTable = EZTaxInitEx(FALSE, NULL, &session);
    if ( taxTable == NULL) {
        cout << "Session initialization failed.\n";</pre>
        EZTaxExit();
       return 0;
    }
    nexus_count = 2;
    nexus_r = (struct nexus_table *)calloc(nexus_count, sizeof(struct
nexus table));
    nexus_r[0].have_nexus = TRUE;
    strcpy(nexus r[0].state, "KS");
    nexus_r[1].have_nexus = TRUE;
    strcpy(nexus_r[1].state, "MO");
       /* the following line sets up the session nexus table */
    EZTaxSetNexus(session, nexus_r, nexus_count);
    setupSales(sales);
    sales.ship_from_P_Code = 1248900;
    sales.ship_to_P_Code = 2149400;
    sales.FOB = SAU_FOB_DESTINATION;
    /* this sets up a default transaction */
    sales.trans_data.attr = SAU_DEFAULT;
      /* in the following line, since the nexus is not being passed in, it
will use the */
      /* session nexus set above */
    taxCount = EZTaxSAUPCode(session, &sales, NULL, 0, &error_code);
    if ( error_code != 0 ) {
        cout << "Problem in calculation of taxes\n";</pre>
    else if (taxCount > 0)
        ProcessResults(sales, taxTable, taxCount);
    zipsales.trans_data = sales.trans_data;
    zipsales.FOB = sales.FOB;
```

```
/* this sets up a freight transaction */
sales.trans_data.attr = SAU_FREIGHT;
sales.trans_data.property.freight.CmnC = TRUE;
sales.trans_data.property.freight.Paid = TRUE;
sales.trans_data.property.freight.SReq = TRUE;
    /* in this line, we are passing in a nexus, so it will NOT use */
    /* the session nexus */
taxCount = EZTaxSAUPCode(session, &sales, nexus_r, nexus_count,
&error_code);

    /* this line will remove the session nexus */
EZTaxSetNexus(session, NULL, 0 );
```

7.7.3 Enhanced Override Structure Date Table and Rate Table Considerations

When using the EZTaxOvrJCodeEx, EZTaxOvrPCodeEx, EZTaxOvrNCodeEx or EZTaxOvrZCodeEx care must be taken when loading the enhancedOverride structure.

When the user is adding date information to the dateTable, the overrideDate from enhancedDateOverride that is being added MUST be in descending date order (future to past order).

For example:

```
/* Primary override structure for AFC release 9 */
struct enhancedOverride
                                              /* Scope of override */
  short int
                                scope;
                                               /* tax type identifier */
  short int
                                 type;
                                               /* tax level identifier */
  short int
                                level;
                                              /* number of date records (normally 2) */
  short int
                                dateCount;
  struct enhancedDateOverride
                                *dateTable;
                                              /* address of array of date records */
};
```

When adding rate Table information to the enhancedDataOverride *rateTable, the actual rate information in enhancedRateOverride structure must be in ascending order based on max_base.

For example:

```
/* entries in the dateTable for overrides if the tax type is telecom (non-sales tax) */
struct enhancedDateOverride
                                  overrideDate; /* starting (effective) date for this set of tax rates */
  unsigned long int
                                                 /* number of rate records for this date (normally 1) */
  short int
                                  rateCount;
                                                 /* TRUE indicates tax can be exempted by an */
  short int
                                  levelExempt;
                                                       exemption for all taxes at the same level as ^{*}/
                                                       this tax, FALSE indicates it canNOT be exempted. */
                                                       NOTE: Tax can still be exempted by specific tax */
                                                 /* exemption. */
/* address of array of telecom rate records */
                                  *rateTable;
  struct enhancedRateOverride
```

7.8 API Listings

Table 7-3 APIs Listed Alphabetically
Sorted Alphabetically
<u>EZTaxClearTSR</u>
<u>EZTaxCountryToPCode</u>
<u>EZTaxDBVersion</u>
<u>EZTaxDLLVersion</u>
<u>EZTaxExitSessionEx</u>
<u>EZTaxFlushToLogEx</u>
<u>EZTaxFreeRates</u>
<u>EZTaxFtoPCodeEx</u>
<u>EZTaxGetAddressEx</u>
<u>EZTaxGetCountryID</u>
EZTaxGetCustomLog
<u>EZTaxGetCustomLogCount</u>
EZTaxGetLogName
EZTaxGetLogV914
EZTaxGetLogV914Count
<u>EZTaxGetNoTaxTrans</u>
EZTaxGetRates
<u>EZTaxGetStateID</u>
EZTaxGetTaxCatV98
<u>EZTaxGetTaxDescription</u>
<u>EZTaxGetTSR</u>
<u>EZTaxGroupResults</u>
<u>EZTaxInitEx</u>
EZTaxInitExMt
EZTaxInitV914
EZTaxInitV98
EZTaxItoPCodeEx
EZTaxJTTypeEx
EZTaxMaxTaxCount
EZTaxNextAddressEx
EZTaxNextCustomerEx
EZTaxOvrJCodeEx
EZTaxOvrPCodeEx
EZTaxOvrZipEx EZTaxPtoFipsEx
EZTaxPtoJCodeEx
EZTaxPTTypeEx EZTaxPactoreEx
EZTaxRestoreEx EZTaxSALIAdiEins
EZTaxSAUAdjFips EZTaxSAUAdjJCode
EZTaxSAUAdjPCode
EZTaxSAUAdjTaxInclusiveJCode
EZTaxSAUAdjTaxInclusiveJCode EZTaxSAUAdjTaxInclusivePCode
EZTaxSAUAdjTaxInclusiveFcode EZTaxSAUAdjTaxInclusiveZip
EZTaxSAUAdjZip
LZTONOMUJEIP

Table 7-3 APIs Listed Alphabetically
Sorted Alphabetically
<u>EZTaxSAUDRAdjFips</u>
<u>EZTaxSAUDRAdjJCode</u>
EZTaxSAUDRAdjPCode
EZTaxSAUDRAdjZip
<u>EZTaxSAUFips</u>
<u>EZTaxSAUJCode</u>
EZTaxSAUPCode
<u>EZTaxSAUTaxInclusiveJCode</u>
<u>EZTaxSAUTaxInclusivePCode</u>
<u>EZTaxSAUTaxInclusiveZip</u>
EZTaxSAUZip
EZTaxSessionDbVersion
<u>EZTaxSetInvoiceModeEx</u>
EZTaxSetInvoiceModeV98
EZTaxSetNexus
<u>EZTaxSetStateExclusions</u>
<u>EZTaxSetStateNexus</u>
<u>EZTaxWriteToLogEx</u>
EZTaxWriteToLogV914
<u>EZTaxZtoJCodeEx</u>
<u>EZTaxZtoPCodeEx</u>

7.8.1 EZTaxClearTSR

Description

EZTaxClearTSR allows API functionality to delete the data created by EZTaxGetTSR. This is used to prevent memory leaks during operation.

Format

void EZTaxClearTSR(EZTaxSession session, struct rtr_data* rpt)

Return Value List

Void

Parameters

session: session handle returned for session when initialized with call to EZTaxInitEx rpt: pointer to the T/S Report created by EZTaxGetTSR. This will be cleared from memory by EZTaxClearTSR.

Remarks

7.8.2 EZTaxCountryToPCode

Description

EZTaxCountryToPCode takes a 3 byte country ISO code and converts it to the correct PCode for that country.

Format

```
unsigned long int EZTaxCountryToPCode(EZTaxSession session, const char* iso_code, int *err_code)
```

Header(s) Required

EZTaxProto.h EZTaxDefine.h

Libraries

EZTax2.lib

Return Value List

PCode: converted from the input fips code 0: if conversion is unsuccessful

Parameters

session : session handle returned when initialized with call to EZTaxInitEx *iso_code: 3 byte country ISO code to convert *err_code : error status returned

Remarks

The value "UNS" will return the PCode for unsupported country. If the initial call fails due to the county code not being supported, this can be a fallback value to use.

7.8.3 EZTaxDBVersion

Description

Function EZTaxDbVersion reads the database version from EZTax.dll and returns it to the caller.

Format

short int EZTaxDbVersion(char *psz_EZTax_dat, char *psz_db_version);

Header(s) Required

EZTaxDefine.h, EZTaxProto.h

Libraries

F7Tax2.lib

Return Value List

TRUE if database version is returned in psz_db_version FALSE if database version couldn't be obtained

Parameters

*psz_EZTax_dat : path to EZTax.dat file

*psz_db_version : address of character array that will receive the database version.

Remarks

The database version will be returned in the form ww.xx.yy.zz, where each piece of the database version number can be 1 or 2 digits.

7.8.4 EZTaxDLLVersion

Description

Function EZTaxDllVersion returns the version number of the AFC API.

Format

short int EZTaxDIIVersion(char *psz_library_version);

Header(s) Required

EZTaxDefine.h

EZTaxProto.h

Libraries

EZTax2.lib

Return Value List

TRUE: if the database version is returned in psz_library_version

FALSE: if database version couldn't be obtained

Parameters

psz_library_version : version string returned

Remarks

The version string is the same value that is displayed in the EZTax.sta status file.

7.8.5 EZTaxExitSessionEx

Description

EZTaxExitSessionEx will terminate a session specified by valid session handle. EZTaxExitSessionEx writes the current internal tax log buffers to the tax log disk file, de-allocates cached database memory, closes all AFC database files, and performs other clean-up duties which free up resources utilized for the specified session.

Format

short int EZTaxExitSessionEx(EZTaxSession session);

Header(s) Required EZTaxProto.h

Libraries

EZTax2.lib

Return Value List

TRUE: if session exited successfully

FALSE: if an error occurred

Parameters

session: session handle returned when initialized with call to EZTaxInitEx

Remarks

The session handle and the struct taxes_tbl * returned by EZTaxInitEx during the initialization of the given session handle are invalidated by a call to this function. Attempting to use either after a call to EZTaxExitSessionEx will cause errors.

7.8.6 EZTaxFlushToLogEx

Description

EZtax FlushToLogEx writes the current internal tax log buffers to the tax log disk file. The internal tax log buffers are normally written to when they are filled to capacity or EZTaxExit is called. This function can be called to force a write to tax log disk file.

Format

short int EZTaxFlushToLogEx(EZTaxSession session);

Header(s) Required
EZTaxProto.h
EZTaxDefine.h
EZTaxStruct.h

Libraries

EZTax2.lib

Return Value List always returns TRUE

Parameters

session: session handle returned when initialized with call to EZTaxInitEx

Remarks

EZTaxFlushToLogEx writes the content of internal tax log buffers to disk.

7.8.7 EZTaxFreeRates

Description

EZTaxFreeRates frees up the memory from the table of all taxes for a jurisdiction returned from EZTaxGetRates

Format

short int EZTaxFreeRates(struct jurisdictionTaxes *taxes);

Header(s) Required EZTaxProto.h EZTaxDefine.h

Libraries

EZTax2.lib

Return Value List always returns 0

Parameters

*taxes: tax information to be freed

Remarks

7.8.8 EZTaxFtoPCodeEx

Description

EZTaxFtoPCodeEx converts a Fips Code into a PCode. Zero is returned if not found.

Format

unsigned long int EZTaxFtoPCodeEx(EZTaxSession session, char *Fips, int *err_code)

Header(s) Required

EZTaxDefine.h

EZTaxProto.h

EZTaxStruct.h

Libraries

EZTax2.lib

Return Value List

PCode: converted from the input fips code

[0]: if conversion is unsuccessful

Parameters

session: session handle returned when initialized with call to EZTaxInitEx

*Fips: Fips code to convert

*err_code : error status returned

Remarks

7.8.9 EZTaxGetAddressEx

Description

EZTaxGetAddressEx utilizes a J-Code as input to produce the location /address data for the jurisdiction identified by the J-Code.

Format

```
short int EZTaxGetAddressEx(EZTaxSession session, unsigned long int j_code, struct address_data_p4 *address, int *err_code);
```

Header(s) Required EZTaxProto.h EZTaxDefine.h

Libraries

EZTax2.lib

Return Value List

NOT FOUND: EZTaxGetAddressEx failed due to invalid JCode or an error has occurred.

FOUND: EZTaxGetAddressEx successfully retrieved address

 $\mathsf{MORE}: \mathsf{EZTaxGetAddressEx} \ \mathsf{successfully} \ \mathsf{retrieved} \ \mathsf{address} \ \mathsf{and} \ \mathsf{other} \ \mathsf{valid} \ \mathsf{addresses} \ \mathsf{exist} \ \mathsf{for} \ \mathsf{this}$

jurisdiction. Other address can be obtained by calling EZTaxNextAddressEx.

Parameters

Session: session handle returned when initialized with call to EZTaxInitEx

j code: j-code to find an address for

*address: the address information returned

*err code: error status code

Remarks

7.8.10 EZTaxGetCountryID

Description

EZTaxGetCountryID returns the country ID associated with the PCode passed in.

For a list of country codes, refer to the **NpaNxx Country Id** column listed under "Appendix D – International NPANXX IDs" in document *TM_00561_AFC Comprehensive Guide to Reports and Data Files.pdf*.

Format

unsigned int EZTaxGetCountryID(EZTaxSession session, unsigned long int PCode, int *err code);

Return Value List

unsigned int representing the country id associated with the PCode passed in.

Parameters

session: Session object returned for session when initialized with call to EZTaxInitEx.

PCode: AFC proprietary code representing a taxing jurisdiciton

*err_code: Error codes returned. See the header EZTaxDefine.h for definitions.

Remarks

7.8.11 EZTaxGetCustomLog

Description

EZTaxGetCustomLog is a routine that returns a pointer to a log structure, which is used for customized logging.

Format

struct EZTax_logEx *EZTaxGetCustomLog(EZTaxSession session)

Return Value List

NULL: Indicates an error has occurred pointer: The logging structure pointer

Parameters

session: session handle returned with call to initialize the AFC session.

Remarks

This function is used after a call to initialize the AFC session and before any taxes are calculated. The log structure returned can be used to call EZTaxWriteToLogEx to output the information to the AFC log. EZTaxGetCustomLogCount can be used to get the record count in the log table as needed.

When a transaction has been processed, the custom log structure will contain the tax information generated by that transaction.

The value in eztax_logEx.p_code is the jcode representation of the jurisdiction.

7.8.12 EZTaxGetCustomLogCount

Description

Function returns the number of records in the current custom log table. This function can be used in conjunction with EZTaxGetCustomLog() which returns a pointer to the custom log table.

Format

short int EZTaxGetCustomLogCount(EZTaxSession session)

Return Value List

Count of records: 0 if no records exist, else the number of records in the custom log table.

Parameters

session: session handle returned with call to initialize the AFC session.

Remarks

GetCustomLogCount returns the number of taxes contained in the EZTaxGetCustomLog structure. The log count includes no summarization. The log count always includes the non-billable tax count.

7.8.13 EZTaxGetLogName

Description

EZTaxGetLogName retrieves the log filename when it is specified using the filelocs.txt. Current use is in the batch executables that open the log file and must know the filename.

Format

short int EZTaxGetLogName(EZTaxSession session, char *filename);

Header(s) Required EZTaxProto.h

EZTaxDefine.h

Libraries

EZTax2.lib

Return Value List

SESSION NOT INIT: if session handle is invalid

TRUE: otherwise

Parameters

session: session handle returned when initialized with call to EZTaxInitEx

*filename: filename from filelocs.txt configuration file or paths variable EZTaxInitEx was called with

Remarks

7.8.14 EZTaxGetLogV914

Description

EZTaxGetLogV914 is a routine that returns a pointer to a log structure, which is used for customized logging.

Format

struct eztax_log_v914 *EZTaxGetLogV914(EZTaxSession session)

Return Value List

NULL: Indicates an error has occurred pointer: The v914 logging structure pointer

Parameters

session: session handle returned with call to initialize the AFC session.

Remarks

This function is used after a call to initialize the AFC session and before any taxes are calculated. The log structure returned can be used to call EZTaxWriteToLogV914 to output the information to the AFC log. EZTaxGetLogV914Count can be used to get the record count in the log table.

When a transaction has been processed, the V914 tax log structure will contain the tax information generated by that transaction. In addition it will contain the charge and t/s pair used in the tax calculation. This can be valuable when processing bundled transactions, as the t/s pair will be the bundled product and the charge the % allocated to this t/s pair.

The value in eztax_log_v914.p_code is the jcode representation of the jurisdiction.

7.8.15 EZTaxGetLogV914Count

Description

Function returns the number of records in the current custom log table. This function can be used in conjunction with EZTaxGetLogV914 () which returns a pointer to the v9114 tax log table.

Format

short int EZTaxGetLogV914Count (EZTaxSession session)

Return Value List

Count of records: 0 if no records exist, else the number of records in the v914 tax log table.

Parameters

session: session handle returned with call to initialize the AFC session.

Remarks

GetLogV914Count returns the number of taxes contained in the EZTaxGetLogV914 structure. The log count includes no summarization. The log count always includes the non-billable tax count.

7.8.16 EZTaxGetNoTaxTrans

Description

EZTaxGetNoTaxTrans is a routine that returns a pointer to a no-tax transaction structure, which is used for tracking transactions that produce no taxes.

Format

struct no_tax_tbl *EZTaxGetNoTaxTrans(EZTaxSession session)

Header(s) Required

EZTaxDefine.h

EZTaxProto.h

EZTaxStruct.h

Libraries

EZTax2.lib

Return Value List

NULL: Indicates an error has occurred pointer: The no tax transaction structure pointer

Parameters

session: session handle returned when initialized with call to EZTaxInitEx

Remarks

This function is used after a call to EZTaxInitEx.

7.8.17 EZTaxGetStateID

Description

EZTaxGetStateID returns the state id associated with the PCode passed in.

For a list of US state codes, refer to the **Id** column listed under "Appendix B – Supported States, Territories and Provinces" in document *TM_00561_AFC Comprehensive Guide to Reports and Data Files.pdf*.

Format

unsigned int EZTaxGetStateID (EZTaxSession session, unsigned long int PCode, int *err code);

Return Value List

unsigned int representing the state id associated with the PCode passed in.

Parameters

session: Session object returned for session when initialized with call to EZTaxInitEx.

PCode: AFC proprietary code representing a taxing jurisdiciton

*err code: Error codes returned. See the header EZTaxDefine.h for definitions.

Remarks

7.8.18 EZTaxGetRates

Description

EZTaxGetRates utilizes a P-Code as input to produce the table of all taxes for that jurisdiction.

Format

short int EZTaxGetRates(EZTaxSession session, unsigned long int p_code, struct jurisdictionTaxes *taxes, int *err_code)

Header (s) Required EZTaxProto.h EZTaxDefine.h

Libraries

EZTax2.lib

Return Value List SUCCESS: 0 FAILURE: 1

Parameters

pCode: jurisdiction to get rate information for

*taxes : tax rates *err_code : error codes

Remarks

7.8.19 EZTaxGetTaxCatV98

Description

EZTaxGetTaxCatV98 retrieves the tax category description for a specified tax code. Current use is in utilities reporting from the log, but users can also use this new feature.

Format

char *EZTaxGetTaxCatV98(EZTaxSession session, int taxCode);

Header (s) Required EZTaxProto.h EZTaxDefine.h

Libraries

EZTax2.lib

Return Value List

the tax category description

Parameters

session: session handle returned when initialized with call to EZTaxInitEx

taxCode: the tax type to get the description for

Remarks

7.8.20 EZTaxGetTaxDescription

Description

EZTaxGetTaxDescription retrieves the tax description for a specified tax code. Current use is in utilities reporting from the log, but users can also use this new feature.

Format

char *EZTaxGetTaxDescription(EZTaxSession session, int taxCode);

Header (s) Required EZTaxProto.h EZTaxDefine.h

Libraries

EZTax2.lib

Return Value List the tax description

Parameters

session : session handle returned when initialized with call to EZTaxInitEx taxCode : the tax type to get the description for

Remarks

7.8.21 EZTaxGetTSR

Description

EZTaxGetTSR allows applications API functionality to get the transaction service report. A flag is used to specify whether the report data should be returned or written to file.

Format

struct rtr_data* EZTaxGetTSR(EZTaxSession session, int *size, short int returnData)

Return Value List

Pointer to rtr_data: if method succeeded AND returnData is true

NULL: otherwise

Parameters

session: session handle returned with call to initialize the AFC session.

size: an integer passed by reference that will be set to the size of the returned array returnData: flag that determines if the TSR data should be returned or written to file.

Remarks

EZTaxGetTSR returns a pointer to an array of data. This data is cleared from memory using EZTaxClearTSR. Using EZTaxGetTSR without calling EZTaxClearTSR can lead to memory leaks.

If returnData is false, the function flushes the TSR data to file and clears the data from memory.

If returnData is true, the function returns the TSR data as an array and does not clear the data. Once the returned data is processed and no longer needed, the calling application should call EZTaxClearTSR() to clear the data from memory.

7.8.22 EZTaxGroupResults

Description

EZTaxGroupResults sets the mode that AFC uses to group the returned taxes by. After calling this function, the results in the tax return table will be grouped as specified by the groupMode parameter.

Format

short int EZTaxGroupResults(EZTaxSession session, unsigned long int groupMode);

Header (s) Required

EZTaxProto.h

EZTaxDefine.h

EZTaxStruct.h

Libraries

F7Tax2.lib

Return Value List

short int: TRUE or FALSE indicating if the function succeeded or not.

Parameters:

int groupMode: Constant indicating how tax calculation results should be returned. The options to group taxes by tax level are the following:

GROUP_SAME_LEVEL: This option indicates that taxes at the same level should be grouped together.

GROUP_CO_LOCAL: When using this option, AFC will group all state taxes into a single record, and county and local taxes will be grouped together into a separate record.

GROUP ST CO LOCAL. State, county and local taxes will be grouped together.

The options to group sales taxes separately may be appended to a tax level option by using the bitwise OR operator (|). These options are:

GROUP_SALES: Sales taxes (tax type 1) and Use Taxes (tax type 49) will be grouped separately from other taxes.

GROUP SALES CATEGORY: All taxes in the sales tax category will be grouped into a single record.

The DEFAULT option may be used to disable tax grouping.

These options are included in the EZTaxDefine.h header file.

Remarks

7.8.23 EZTaxInitEx

Description

EZTaxInitEx reads AFC files and initializes the AFC system. Multiple calls may be made to set up completely independent sessions.

Format

```
struct enhanced_taxes_tbl *EZTaxInitEx(short int tax_log,
struct file_path *paths,
EZTaxSession *session);
```

Header(s) Required

EZTaxProto.h EZTaxStruct.h EZTaxDefine.h

Libraries

EZTax2.lib

Return Value List

pointer: to structure where taxes are returned later

NULL: if an error occurred

Parameters

tax_log : flag to log taxes or not

*paths: data structure with file-paths, if null or incomplete, paths are read from file_locs.txt

*session: session handle returned

Remarks

This function initializes and starts an AFC session.

Multiple sessions can be initialized by successive calls to EZTaxInitEx.

7.8.24 EZTaxInitExMt

Description

EZTaxInitExMt reads AFC files and initializes the AFC system. Multiple calls may be made to set up completely independent sessions.

Format

Header(s) Required

EZTaxProto.h EZTaxStruct.h

EZTaxDefine.h

Libraries

EZTax2.lib

Return Value List

pointer: to structure where taxes are returned later

NULL: if an error occurred

Parameters

tax_log : flag to log taxes or not

*paths: data structure with file-paths, if null or incomplete, paths are read from file locs.txt

*session: session object returned

*directory: name of directory that AFC will search for EZTax.cfg and filelocs.txt

Remarks

This function initializes and starts an AFC session.

This function is designed to be thread-safe – other sessions on other threads can be running AFC calculations when this function is called.

Be sure to call EZTaxExitSessionEx for each EZTaxSession object created by EZTaxInitExMt. EZTaxExit will not close sessions created by EZTaxInitExMt. Failure to call EZTaxExitSessionEx will result in memory leaks.

7.8.25 F7TaxInitV914

Description

EZTaxInitV914 reads AFC files and initializes the AFC system. Multiple calls may be made to set up completely independent sessions.

The input structure allows all optional input files to be specified through the initialization method. This method does not use filelocs.txt and will ignore exclusion, nexus and bundle file settings in EZTax.cfg.

```
struct file path v914
            *EZTax_data_dir; /* EZIax data_dir; /* Working direction /* EZTax log */

'* EZTax status
                                     /* EZTax data directory */
   char
                                       /* Working directory */
   char
   char
            *EZTax_status_file; /* EZTax status file */
   char
                                      /* EZTax override file */
   char
            *EZTax ovr file;
                                      /* EZTax exclusion file */
            *EZTax exc file;
   char
                                      /* EZTax nexus file */
             *EZTax_nex_file;
   char
            *EZTax_bdl_file;
                                       /* EZTax bundle file */
   char
};
```

Format

```
struct enhanced_taxes_tbl * EZTaxInitV914(short int tax_log_enabled, struct file_path_v914 *paths, EZTaxSession *session);
```

Return Value List

pointer: to structure where taxes are returned later

NULL: if an error occurred

Parameters

tax_log_enabled : flag to enable the log taxes process

- *paths : data structure with file-paths.
- *session: session object returned

Remarks

This function initializes and starts an AFC session and is designed to be thread-safe - other sessions on other threads can be running AFC calculations when this function is called.

Be sure to call EZTaxExitSessionEx for each EZTaxSession object created by EZTaxInitV914. EZTaxExit will not close sessions created by EZTaxInitV914. Failure to call EZTaxExitSessionEx will result in memory leaks.

^{*}directory: name of directory that AFC will search for EZTax.cfg and filelocs.txt

7.8.26 EZTaxInitV98

Description

EZTaxInitV98 reads AFC files and initializes the AFC system. It differs from EZTaxInitExMT in that the tax table returned includes tax category information. Multiple calls may be made to set up completely independent sessions.

Format

```
struct taxes_tbl_v98 *EZTaxInitV98(short int tax_log,
struct file_path *paths,
EZTaxSession *session,
char *directory);
```

Header(s) Required

EZTaxProto.h

EZTaxStruct.h

EZTaxDefine.h

Libraries

EZTax2.lib

Return Value List

pointer: to structure where taxes are returned later

NULL: if an error occurred

Parameters

tax log: flag to log taxes or not

*paths: data structure with file-paths, if null or incomplete, paths are read from file_locs.txt

*session: session object returned

*directory: name of directory that AFC will search for EZTax.cfg and filelocs.txt

Remarks

This function initializes and starts an AFC session.

This function is designed to be thread-safe – other sessions on other threads can be running AFC calculations when this function is called.

Be sure to call EZTaxExitSessionEx for each EZTaxSession object created by EZTaxInitV98. Failure to call EZTaxExitSessionEx will result in memory leaks.

7.8.27 EZTaxJtoPCodeEx

Description

EZTaxJtoPCodeEx Returns PCode that is cross-referenced to a JCode.

Format

```
unsigned long int EZTaxJtoPCodeEx(EZTaxSession session, unsigned long int JCode, int *err code);
```

Header(s) Required

EZTaxDefine.h

EZTaxProto.h

EZTaxStruct.h

Libraries

EZTax2.lib

Return Value List

PCode: for the input jcode if found, 0 otherwise

Parameters

session: Session handle returned when initialized with call to EZTaxInitEx

JCode: j-code to convert

*err_code: Error status returned

Remarks

7.8.28 EZTaxJTTypeEx (EZTaxJTType deprecated)

Description

Returns transaction type for a given pair of JCodes indicating whether the call is interstate or intrastate. The first JCode is the originating and the second the terminating JCode. Will set error code to INTERSTATE_NOT_VALID_FOR_INTERNATIONAL_CALLS If the originating country and terminating country are not the same.

The returned value can also be used to determine service types. For example for transaction type, 19, 20, 21, 59, the interstate service type is 49, the intrastate service is 50. For transaction type 61, the intersate service is 585, intrastate service is 586. But caller is responsible to map INTERSTATE or INTRASTATE to the right service type.

Format

```
short int EZTaxJTType(EZTaxSession session, unsigned long int orig_J_Code, unsigned long int term_J_Code, int* err code)
```

Return Value List

INTERSTATE or INTRASTATE: depending on the origination and termination States.

Parameters

session: Session handle returned when session was initialized

orig_J_Code: origination j-code term_J_Code: termination j-code *err_code : error status returned

Remarks

This call will eventually be deprecated. Recommend usage of EZTaxPTTypeEx(...) which works with PCodes in place of this call.

7.8.29 EZTaxMaxTaxCount

Description

EZTaxMaxTaxCount returns the maximum number of taxes that one transaction can generate.

Format

Short int EZTaxMaxTaxCount();

Header(s) Required

EZTaxProto.h

Libraries

EZTax2.lib

Return Value List

Count: Maximum tax count generated by one transaction

Parameters

None

Remarks

7.8.30 EZTaxNextAddressEx

Description

EZTaxNextAddressEx returns the next sequential record containing alternative address information for a specific JCode. This function can be used to obtain additional address for a specified jurisdiction when EZTaxGetAddressEx returns MORE, indicating additional information is available. The majority of jurisdictions have more than one set of address/zip code data associated with them.

Format

```
short int EZTaxNextAddressEx(EZTaxSession session,
struct address_data_p4 *address,
int *err_code);
```

Header(s) Required

EZTaxProto.h

F7TaxDefine.h

EZTaxStruct.h

Libraries

EZTax2.lib

Return Value List

FOUND: is returned if last address found

MORE: is returned if an address is found and more addresses are available

NOT_FOUND : is returned if not found

Parameters

session: session handle returned when initialized with call to EZTaxInitEx

*address : address information *err code : error status returned

Remarks

7.8.31 EZTaxNextCustomerEx

Description

EZTaxNextCustomerEx puts the taxes calculated in the customer table into a customer tax table that the client can reference, and reinitializes the customer table to prepare for the next set of customer records.

Format

int EZTaxNextCustomerEx(EZTaxSession session);

Libraries

EZTax2.lib

Header(s) Required

EZTaxProto.h,

EZTaxDefine.h,

EZTaxStruct.h

Return Value List

Tax count: positive if all taxes waiting have been returned

- -1 if there was an error
- -1*tax count if more taxes are waiting to be retrieved

Parameters

session: Session handle returned for session when initialized with call to EZTaxInit.

Remarks

To be used if the system is in Invoice Mode. See EZTaxSetInvoiceMode. Reinitializes the customer table to prepare for the next set of customer records when all waiting taxes have been retrieved. If

return value is negative (and not -1), EZTaxNextCustomer must be called again to retrieve more taxes. Interface data structures are also described in detail in the AFC Data Structures section.

Note that the summarized taxes returned when calling EZTaxNextCustomer are identical to the total of the individual taxes returned from the taxing APIs. Typically one or the other is used but not both. Combining the individual taxes and the summarized taxes will result in twice as much taxes as should be normal.

7.8.32 EZTaxOvrJCodeEx

Description

EZTaxOvrJCodeEx specifies an override for a specific tax. Tax Jurisdiction information is passed via jurisdiction code. It takes a J_Code and an override structure as input and inserts a tax override into the AFC db system.

Format

short int EZTaxOvrJCodeEx(EZTaxSession session, unsigned long int j_code, struct enhancedOverride *over)

Header(s) Required

EZTaxDefine.h

EZTaxProto.h

EZTaxStruct.h

Libraries

EZTax2.lib

Parameters

session: Session object returned for session when initialized with call to EZTaxInitEx

j_code : Specifies jurisdiction to override via JCode

*over: pointer to override information in the same form as returned by EZTaxGetRates. See struct enhancedOverride in EZTaxStruct.h for detailed information. Note that this structure points to other structures with detailed information on effective date for each tax rate and tax bracket. Interface data structures are also described in detail in the AFC Data Structures section.

Return Value List

FALSE : Override failed TRUE : Override established

Remarks

Taxes which are overridden are in effect from the time the override is established until the AFC session is terminated. All overrides can be removed from the system using the method EZTaxRestore.

Overrides must be approached with caution. The system allows overrides of all taxes and allows the user to specify the scope of the override. Overriding a tax on a state or county level can impact taxes in excess of a thousand jurisdictions in some cases. Further detail is contained in the AFC Data Structure section.

7.8.33 EZTaxOvrPCodeEx

Description

EZTaxOvrPCodeEx specifies an override for a specific tax. Tax jurisdiction information is passed via permanent jurisdiction code. It takes a P_Code and an override structure as input and inserts a tax override into the AFC db system.

Format

short int EZTaxOvrPCodeEx(EZTaxSession session, unsigned long int p_code, struct enhancedOverride *over)

Header(s) Required EZTaxDefine.h

EZTaxProto.h

EZTaxStruct.h

Libraries

EZTax2.lib

Parameters

session: Session object returned for session when initialized with call to EZTaxInitEx

p_code : Specifies jurisdiction to override via PCode

*over: pointer to override information in the same form as returned by EZTaxGetRates. See struct enhancedOverride in EZTaxStruct.h for detailed information. Note that this structure points to other structures with detailed information on effective date for each tax rate and tax bracket. Interface data structures are also described in detail in the AFC Data Structures section.

Return Value List

FALSE : Override failed TRUE : Override established

Remarks

Taxes which are overridden are in effect from the time the override is established until the AFC session is terminated. All overrides can be removed from the system using the method EZTaxRestore.

Overrides must be approached with caution. The system allows overrides of all taxes and allows the user to specify the scope of the override. Overriding a tax on a state or county level can impact taxes in excess of a thousand jurisdictions in some cases. Further detail is contained in the AFC Data Structure section.

7.8.34 EZTaxOvrZipEx

Description

EZTaxOvrZipEx specifies an override for a specific tax. Tax jurisdiction information is passed via zip code and address. It takes zip code plus 4 and address information, as well as an override structure as input and inserts a tax override into the AFC db system.

Format

```
short int EZTaxOvrZipEx(EZTaxSession session,
struct zip_address_p4 int zip_addr,
struct enhancedOverride *over,
int *err_code)
```

Header(s) Required EZTaxDefine.h EZTaxProto.h

Libraries

EZTax2.lib

Parameters

session: Session object returned for session when initialized with call to EZTaxInitEx.

zip_addr : Specifies jurisdiction to override via Zip code and address.

*over: pointer to override information in the same form as returned by EZTaxGetRates. See struct enhancedOverride and struct zip_address_p4 in EZTaxStruct.h for detailed information.

Note that the enhancedOverride structure points to other structures with detailed information on effective date for each tax rate and tax bracket. Interface data structures are also described in detail in the AFC Data Structures section.

err_code: error status returned

Return Value List

FALSE : Override failed TRUE : Override established

Remarks

Taxes which are overridden are in effect from the time the override is established until the AFC session is terminated. All overrides can be removed from the system using the method EZTaxRestore.

Overrides must be approached with caution. The system allows overrides of all taxes and allows the user to specify the scope of the override. Overriding a tax on a state or county level can impact taxes in excess of a thousand jurisdictions in some cases. Further detail is contained in the AFC Data Structure section.

Either the two-character or three-character ISO country code may be used here.

7.8.35 EZTaxPtoFipsEx

Description

EZTaxPtoFipsEx returns FIPS Code that is cross-referenced to a PCode. It converts a PCode into a Fips Code. Zero is returned if not found.

Format

Header(s) Required

EZTaxDefine.h EZTaxProto.h EZTaxStruct.h

Libraries

EZTax2.lib

Return Value List

FALSE: (0) Indicates that the PCode specified was not found or an error has occurred.

FIPS Code: FIPS Jurisdiction code

Parameters

session: Session handle returned when initialized with call to EZTaxInitEx.

PCode: Permanent jurisdiction code.

*err_code : Error codes returned. See the header EZTaxDefine.h for definitions.

Remarks

If the supplied PCode was not found or an error has occurred 0 is returned.

7.8.36 EZTaxPtoJCodeEx

Description

EZTaxPtoJCodeEx converts a PCode into a J-Code. PCODE_NOT_FOUND returned if not found.

Format

unsigned long int EZTaxPtoJCodeEx(EZTaxSession session, unsigned long int PCode, int *err_code);

Header(s) Required

EZTaxDefine.h

EZTaxStruct.h

EZTaxProto.h

Libraries

EZTax2.lib

Return Value List

FALSE (0): Indicates that the PCode specified was not found or an error has occurred.

JCode: Jurisdiction code

Parameters

session: Session handle returned when initialized with call to EZTaxInitEx

PCode: Permanent jurisdiction code.

*err_code : Error codes returned. See the header EZTaxDefine.h for definitions.

Remarks

If the supplied PCode was not found or an error has occurred 0 is returned, which is a valid U.S. Federal level code.

Please check the error code before using the JCode that is returned.

7.8.37 EZTaxPTTypeEx

Description

Returns transaction type for a given pair of PCodes indicating whether the call is interstate or intrastate. The first JCode is the originating and the second the terminating PCode. Will set error code to INTERSTATE_NOT_VALID_FOR_INTERNATIONAL_CALLS

If the originating country and terminating country are not the same.

The returned value can also be used to determine service types. For example for transaction type, 19, 20, 21, 59, the interstate service type is 49, the intrastate service is 50. For transaction type 61, the intersate service is 585, intrastate service is 586. But caller is responsible to map INTERSTATE or INTRASTATE to the right service type.

Format

```
short int EZTaxPTType(EZTaxSession session,
unsigned long int orig_PCode,
unsigned long int term_PCode,
int* err code)
```

Return Value List

INTERSTATE or INTRASTATE: depending on the origination and termination States.

Parameters

session: Session handle returned when session was initialized

orig_PCode: origination p-code term_PCode: termination p-code *err code: error status returned

Remarks

This is the preferred API to be used and replaces usage of EZTaxJTType and EZTaxJTTypeEx.

7.8.38 EZTaxRestoreEx

Description

EZTaxRestoreEx removes all overrides that have been inserted, by the user, into the AFC databases. This action occurs automatically on EZTaxExit. The function provides the user with the ability to remove prior overrides, without terminating an AFC session.

This program restores the AFC db to its original state (i.e. before overrides). All tables modified, except for the federal tax table, are restored by restoring EZTax.dll and clearing cache. This is so because all tables are modified by appending overrides to the end of the table and changing the references from the old record to the new record. Therefore, when cache is cleared and new data is pulled from the unmodified EZTax.dll, it references the original, unmodified record in the associated tables. As federal taxes do not work in this fashion, federal tax overrides are installed and restored using a unique procedure.

Format

short int EZTaxRestoreEx(EZTaxSession session);

Header(s) Required EZTaxDefine.h EZTaxProto.h EZTaxStruct.h

Libraries

F7Tax2.lib

Return Value List

TRUE : Restore succeeded FALSE : Restore failed

Parameters

session: Session object returned for session when initialized with call to EZTaxInitEx.

Remarks

All prior overrides are lost and the system databases are returned to their original configuration.

7.8.39 EZTaxSAUAdjFips

Description

EZTaxSAUAdjFips accepts transaction data and performs appropriate tax calculations. If the AFC session was started with the tax log open, tax calculations are logged and will be reflected in tax reports. FOB, ship from and ship to information is passed using fips codes.

Format

```
short int EZTaxSAUAdjFips(EZTaxSession session,
struct sau_Fips_Code *trans,
struct nexus_table *nexus_tab,
short int nexus_count,
int adj_method,
int *err_code);
```

Header(s) Required

EZTaxProto.h

EZTaxDefine.h

EZTaxStruct.h

EZTaxSauProto.h

EZTaxSauDefine.h

Libraries

EZTax2.lib

Return Value List

[0]: No taxes calculated or an error was found

[n]: Indicates number of taxes stored in the struct enhanced_taxes_tbl array for this transaction

Parameters

session: session handle returned when initialized with call to EZTaxInitEx

*trans: transaction information

*nex tab: list of states where a business nexus exists.

nexus_count : number of entries in nex_tab
adj_method : adjustment method (DLM)

*err_code : error status returned

Remarks

7.8.40 EZTaxSAUAdjJCode

Description

EZTaxSAUAdjJCode accepts transaction data and performs appropriate tax calculations required to refund or credit taxes (Debit transactions use EZTaxAdjDebitEx API's). If the AFC session was started with the tax log open, appropriate taxes reductions are logged and will be reflected in tax reports. FOB, ship from and ship to information is passed using JCodes.

Format

```
short int EZTaxSAUAdjJCode(EZTaxSession session,
struct sau_J_Code *trans,
struct nexus_table *nexus_tab,
short int nexus_count, int adj_method,
int *err_code);
```

Header(s) Required

EZTaxProto.h EZTaxDefine.h EZTaxStruct.h

EZTaxSauProto.h

Libraries

EZTax2.lib

Return Value List

[0]: No taxes calculated or an error was found

[n]: Indicates number of taxes stored in the struct enhanced taxes tbl array for this transaction

Parameters

session: session handle returned when initialized with call to EZTaxInitEx

*trans: transaction information

*nex_tab : list of states where a business nexus exists.

nexus_count : number of entries in nex_tab adj_method : adjustment method (DLM)

 $*err_code$: error status returned

Remarks

7.8.41 EZTaxSAUAdjPCode

Description

EZTaxSAUAdjPCode accepts transaction data and performs appropriate tax calculations. If the AFC session was started with the tax log open, tax calculations are logged and will be reflected in tax reports. FOB, ship_from and ship_to information is passed using PCodes.

Format

```
short int EZTaxSAUAdjPCode(EZTaxSession session,
struct sau_P_Code *trans,
struct nexus_table *nexus_tab,
short int nexus_count,
int adj_method,
int *err_code);
```

Header(s) Required

EZTaxProto.h

EZTaxDefine.h

EZTaxStruct.h

EZTaxSauProto.h

EZTaxSauDefine.h

Libraries

EZTax2.lib

Return Value List

[0]: No taxes calculated or an error was found

[n]: Indicates number of taxes stored in the struct enhanced_taxes_tbl array for this transaction

Parameters

session: session handle returned when initialized with call to EZTaxInitEx

*trans: transaction information

*nex tab: list of states where a business nexus exists.

nexus_count : number of entries in nex_tab
adj_method : adjustment method (DLM)

*err_code : error status returned

Remarks

7.8.42 EZTaxSAUAdjTaxInclusiveJCode (EZTaxSAUAdjRevJCode deprecated)

Description

EZTaxSAUAdjTaxInclusiveJCode accepts transaction data and performs a tax inclusive adjustment calculation to arrive at the base sale amount. The desired total (charge plus all taxes) is placed in the 'charge' field in the transaction, and base charge necessary to generate that total is returned in the 'base_sale' parameter. Taxes for the desired transaction are returned in the same manner as EZTaxSAUAdjJCode does. If the AFC session was started with the tax log open, tax calculations are logged and will be reflected in tax reports. FOB, ship_from and ship_to information is passed using JCodes. The base sale amount will also be stored in the 'optional' field in the log output, converted to an integer.

Format

```
short int EZTaxSAUAdjTaxInclusiveJCode(EZTaxSession session, struct sau_J_Code *trans, struct nexus_table *nexus_tab, short int nexus_count, int adj_method, double *base_sale, int *err code);
```

Header(s) Required

EZTaxProto.h EZTaxDefine.h EZTaxStruct.h

Libraries

EZTax2.lib

Return Value List

[-1]: A critical error occurred while preparing the tax inclusive calculation session

[0]: No taxes calculated

[n]: Indicates number of taxes stored in the struct enhanced_taxes_tbl array for this transaction

Parameters

session: session handle returned when initialized with call to EZTaxInitEx

*trans: transaction information

*nex tab: list of states where a business nexus exists.

nexus count: number of entries in nex tab

adj_method: adjustment method

*base sale: calculated charge returned

*err_code: error status returned

Remarks

When both return and err_code are 0, no taxes were found, but there is no error. The base_sale returned will equal the charge sent in. If the charge sent, is insufficient to cover the taxes generated,

then no taxes will be calculated and the err_code will be set to -37. An error will be logged to the status file indicating an insufficient charge error occurred.

Note: Non-billable taxes are not included in the calculation of the base sale amount. Adding the base sale amount and all taxes that appear in the log for a transaction may result in a value greater than the target amount, as any non-billable taxes returned by the transaction *will* be included in that total.

7.8.43 EZTaxSAUAdjTaxInclusivePCode (EZTaxSAUAdjRevPCode deprecated)

Description

EZTaxSAUAdjTaxInclusivePCode accepts transaction data and performs a tax inclusive adjustment calculation to arrive at the base sale amount. The desired total (charge plus all taxes) is placed in the 'charge' field in the transaction, and base charge necessary to generate that total is returned in the 'base_sale' parameter. Taxes for the desired transaction are returned in the same manner as EZTaxSAUAdjPCode does. If the AFC session was started with the tax log open, tax calculations are logged and will be reflected in tax reports. FOB, ship_from and ship_to information is passed using PCodes. The base sale amount will also be stored in the 'optional' field in the log output, converted to an integer.

Format

```
short int EZTaxSAUAdjTaxInclusivePCode(EZTaxSession session, struct sau_P_Code *trans, struct nexus_table *nexus_tab, short int nexus_count, int adj_method, double *base_sale, int *err_code);
```

Header(s) Required

EZTaxProto.h EZTaxDefine.h EZTaxStruct.h

Libraries

EZTax2.lib

Return Value List

[-1]: A critical error occurred while preparing the tax inclusive calculation session

[0]: No taxes calculated

[n]: Indicates number of taxes stored in the struct enhanced_taxes_tbl array for this transaction

Parameters

session: session handle returned when initialized with call to EZTaxInitEx

*trans: transaction information

*nex tab: list of states where a business nexus exists.

nexus count: number of entries in nex tab

adj_method: adjustment method

*base sale: calculated charge returned

*err_code: error status returned

Remarks

When both return and err_code are 0, no taxes were found, but there is no error. The base_sale returned will equal the charge sent in. If the charge sent in is insufficient to cover the taxes generated,

then no taxes will be calculated and the err_code will be set to -37. An error will be logged to the status file indicating an insufficient charge error occurred.

Note: Non-billable taxes are not included in the calculation of the base sale amount. Adding the base sale amount and all taxes that appear in the log for a transaction may result in a value greater than the target amount, as any non-billable taxes returned by the transaction *will* be included in that total.

7.8.44 EZTaxSAUAdjTaxInclusiveZip (EZTaxSAUAdjRevZip deprecated)

Description

EZTaxSAUAdjTaxInclusiveZip accepts transaction data and performs a tax inclusive adjustment calculation to arrive at the base sale amount. The desired total (charge plus all taxes) is placed in the 'charge' field in the transaction, and base charge necessary to generate that total is returned in the 'base_sale' parameter. Taxes for the desired transaction are returned in the same manner as EZTaxSAUAdjZip does. If the AFC session was started with the tax log open, tax calculations are logged and will be reflected in tax reports. FOB, ship_from and ship_to information is passed using zip codes. The base sale amount will also be stored in the 'optional' field in the log output, converted to an integer.

Format

```
short int EZTaxSAUAdjTaxInclusiveZip(EZTaxSession session, struct sau_Zip_Code *trans, struct nexus_table *nexus_tab, short int nexus_count, int adj_method, double *base_sale, int *err_code);
```

Header(s) Required

EZTaxProto.h EZTaxDefine.h EZTaxStruct.h

Libraries

EZTax2.lib

Return Value List

[-1]: A critical error occurred while preparing the tax inclusive calculation session

[0]: No taxes calculated

[n]: Indicates number of taxes stored in the struct enhanced_taxes_tbl array for this transaction

Parameters

session: session handle returned when initialized with call to EZTaxInitEx

*trans: transaction information

*nex tab: list of states where a business nexus exists.

nexus count: number of entries in nex tab

adj_method: adjustment method

*base_sale: calculated charge returned

*err_code: error status returned

Remarks

When both return and err_code are 0, no taxes were found, but there is no error. The base_sale returned will equal the charge sent in. If the charge sent in is insufficient to cover the taxes generated,

then no taxes will be calculated and the err_code will be set to -37. An error will be logged to the status file indicating an insufficient charge error occurred.

Note: Non-billable taxes are not included in the calculation of the base sale amount. Adding the base sale amount and all taxes that appear in the log for a transaction may result in a value greater than the target amount, as any non-billable taxes returned by the transaction *will* be included in that total.

7.8.45 EZTaxSAUAdjZip

Description

EZTaxSAUAdjPCode accepts transaction data and performs appropriate tax calculations. If the AFC session was started with the tax log open, tax calculations are logged and will be reflected in tax reports. FOB, ship_from and ship_to information is passed using PCodes.

Format

```
short int EZTaxSAUAdjPCode(EZTaxSession session, struct sau_P_Code *trans, struct nexus_table *nexus_tab, short int nexus_count, int adj_method, int *err_code);
```

Header(s) Required

EZTaxProto.h

EZTaxDefine.h

EZTaxStruct.h

EZTaxSauProto.h

EZTaxSauDefine.h

Libraries

EZTax2.lib

Return Value List

[0]: No taxes calculated or an error was found

[n]: Indicates number of taxes stored in the struct enhanced_taxes_tbl array for this transaction

Parameters

session: session handle returned when initialized with call to EZTaxInitEx

*trans: transaction information

*nex tab: list of states where a business nexus exists.

nexus_count : number of entries in nex_tab
adj_method : adjustment method (DLM)

*err_code : error status returned

Remarks

7.8.46 EZTaxSAUDRAdjFips

Description

EZTaxSAUDRAdjFips accepts transaction data and performs appropriate debit adjustment tax calculations. If the AFC session was started with the tax log open, tax calculations are logged and will be reflected in tax reports. FOB, ship_from and ship_to information is passed using fips codes.

Format

```
short int EZTaxSAUDRAdjFips( EZTaxSession session, struct sau_Fips_Code *trans, struct nexus_table *nexus_tab, short int nexus_count, int adj_method, int *err_code );
```

Header(s) Required

EZTaxProto.h

EZTaxDefine.h

EZTaxStruct.h

EZTaxSauProto.h

EZTaxSauDefine.h

Libraries

F7Tax2.lib

Return Value List

[0]: No taxes calculated or an error was found

[n]: Indicates number of taxes stored in the struct enhanced taxes tbl array for this transaction

Parameters

session: session handle returned when initialized with call to EZTaxInitEx

*trans: transaction information

*nex_tab : list of states where a business nexus exists.

nexus_count : number of entries in nex_tab adj_method : adjustment method (DLM)

*err_code : error status returned

Remarks

7.8.47 EZTaxSAUDRAdjJCode

Description

EZTaxSAUDRAdjJCode accepts transaction data and performs appropriate debit adjustment tax calculations required to refund or credit taxes (Debit transactions use EZTaxAdjDebitEx API's). If the AFC session was started with the tax log open, appropriate taxes reductions are logged and will be reflected in tax reports. FOB, ship from and ship to information is passed using JCodes.

Format

```
short int EZTaxSAUDRAdjJCode( EZTaxSession session, struct sau_J_Code *trans, struct nexus_table *nexus_tab, short int nexus_count, int adj_method, int *err_code );
```

Header(s) Required

EZTaxProto.h

EZTaxDefine.h

EZTaxStruct.h

EZTaxSauProto.h

Libraries

EZTax2.lib

Return Value List

[0]: No taxes calculated or an error was found

[n]: Indicates number of taxes stored in the struct enhanced_taxes_tbl array for this transaction

Parameters

session: session handle returned when initialized with call to EZTaxInitEx

*trans: transaction information

*nex tab: list of states where a business nexus exists.

nexus_count : number of entries in nex_tab
adj_method : adjustment method (DLM)

*err_code : error status returned

Remarks

7.8.48 EZTaxSAUDRAdjPCode

Description

EZTaxSAUDRAdjPCode accepts transaction data and performs appropriate debit adjustment tax calculations. If the AFC session was started with the tax log open, tax calculations are logged and will be reflected in tax reports. FOB, ship from and ship to information is passed using PCodes.

Format

```
short int EZTaxSAUDRAdjPCode( EZTaxSession session, struct sau_P_Code *trans, struct nexus_table *nexus_tab, short int nexus_count, int adj_method, int *err_code );
```

Header(s) Required

EZTaxProto.h

EZTaxDefine.h

EZTaxStruct.h

EZTaxSauProto.h

EZTaxSauDefine.h

Libraries

F7Tax2.lib

Return Value List

[0]: No taxes calculated or an error was found

[n]: Indicates number of taxes stored in the struct enhanced_taxes_tbl array for this transaction

Parameters

session: session handle returned when initialized with call to EZTaxInitEx

*trans: transaction information

*nex_tab : list of states where a business nexus exists.

nexus_count : number of entries in nex_tab adj_method : adjustment method (DLM)

*err_code : error status returned

Remarks

7.8.49 EZTaxSAUDRAdjZip

Description

EZTaxSAUAdjPCode accepts transaction data and performs appropriate tax calculations. If the AFC session was started with the tax log open, tax calculations are logged and will be reflected in tax reports. FOB, ship from and ship to information is passed using PCodes.

Format

```
short int EZTaxSAUDRAdjPCode( EZTaxSession session, struct sau_P_Code *trans, struct nexus_table *nexus_tab, short int nexus_count, int adj_method, int *err_code );
```

Header(s) Required

EZTaxProto.h

EZTaxDefine.h

EZTaxStruct.h

EZTaxSauProto.h

EZTaxSauDefine.h

Libraries

EZTax2.lib

Return Value List

[0]: No taxes calculated or an error was found

[n]: Indicates number of taxes stored in the struct enhanced_taxes_tbl array for this transaction

Parameters

session: session handle returned when initialized with call to EZTaxInitEx

*trans: transaction information

*nex tab: list of states where a business nexus exists.

nexus_count : number of entries in nex_tab
adj_method : adjustment method (DLM)

*err_code : error status returned

Remarks

7.8.50 EZTaxSAUFips

Description

EZTaxSAUFips accepts transaction data and performs appropriate tax calculations. If the AFC session was started with the tax log open, tax calculations are logged and will be reflected in tax reports. FOB, ship_from and ship_to information is passed using fips codes.

Format

```
short int EZTaxSAUFips(EZTaxSession session,
struct sau_Fips_Code *trans,
struct nexus_table *nexus_tab,
short int nexus_count,
int *err_code);
```

Header(s) Required

EZTaxProto.h

EZTaxDefine.h

EZTaxStruct.h

EZTaxSauProto.h

EZTaxSauDefine.h

Libraries

EZTax2.lib

Return Value List

[0]: No taxes calculated or an error was found

[n]: Indicates number of taxes stored in the struct enhanced_taxes_tbl array for this transaction

Parameters

session: session handle returned when initialized with call to EZTaxInitEx

*trans: transaction information

*nex tab: list of states where a business nexus exists.

nexus_count : number of entries in nex_tab

*err_code : error status returned

Remarks

7.8.51 EZTaxSAUJCode

Description

EZTaxSAUJCode accepts transaction data and performs appropriate tax calculations. If the AFC session was started with the tax log open, tax calculations are logged and will be reflected in tax reports. FOB, ship from and ship to information is passed using JCodes.

Format

```
short int EZTaxSAUJCode(EZTaxSession session, struct sau_J_Code *trans, struct nexus_table *nexus_tab, short int nexus_count, int *err_code);
```

Header(s) Required

EZTaxProto.h EZTaxDefine EZTaxStruct.h

Libraries

EZTax2.lib

Return Value List

[0]: No taxes calculated or an error was found

[n]: Indicates number of taxes stored in the struct enhanced_taxes_tbl array for this transaction

Parameters

session: session handle returned when initialized with call to EZTaxInitEx

*trans: transaction information

*nex tab: list of states where a business nexus exists.

nexus_count : number of entries in nex_tab

*err_code : error status returned

Remarks

7.8.52 EZTaxSAUPCode

Description

EZTaxSAUPCode accepts transaction data and performs appropriate tax calculations. If the AFC session was started with the tax log open, tax calculations are logged and will be reflected in tax reports. FOB, ship_from and ship_to information is passed using PCodes.

Format

```
short int EZTaxSAUPCode(EZTaxSession session,
struct sau_P_Code *trans,
struct nexus_table *nexus_tab,
short int nexus_count,
int *err_code);
```

Header(s) Required

EZTaxProto.h

EZTaxDefine.h

EZTaxStruct.h

EZTaxSauProto.h

EZTaxSauDefine.h

Libraries

EZTax2.lib

Return Value List

[0]: No taxes calculated or an error was found

[n]: Indicates number of taxes stored in the struct enhanced taxes tbl array for this transaction

Parameters

session: session handle returned when initialized with call to EZTaxInitEx

*trans: transaction information

*nex_tab : list of states where a business nexus exists.

nexus_count : number of entries in nex_tab

*err_code : error status returned

Remarks

7.8.53 EZTaxSAUTaxInclusiveJCode (EZTaxSAURevJCode deprecated)

Description

EZTaxSAUTaxInclusiveJCode accepts transaction data and performs a tax inclusive calculation to arrive at the base sale amount. The desired total (charge plus all taxes) is placed in the 'charge' field in the transaction, and base charge necessary to generate that total is returned in the 'base_sale' parameter. Taxes for the desired transaction are returned in the same manner as EZTaxSAUJCode does. If the AFC session was started with the tax log open, tax calculations are logged and will be reflected in tax reports. FOB, ship_from and ship_to information is passed using JCodes. The base sale amount will also be stored in the 'optional' field in the log output, converted to an integer.

Format

```
short int EZTaxSAUTaxInclusiveJCode (EZTaxSession session, struct sau_J_Code *trans, struct nexus_table *nexus_tab, short int nexus_count, double *base_sale, int *err_code);
```

Header(s) Required EZTaxProto.h EZTaxDefine.h EZTaxStruct.h

Libraries

F7Tax2.lib

Return Value List

- [-1]: A critical error occurred while preparing the tax inclusive calculation session
- [0]: No taxes calculated or an error was found
- [n]: Indicates number of taxes stored in the struct enhanced_taxes_tbl array for this transaction

Parameters

session: session handle returned when initialized with call to F7TaxInitEx

*trans: transaction information

*nex tab: list of states where a business nexus exists.

nexus_count: number of entries in nex_tab *base_sale: calculated charge returned *

*err code: error status returned

Remarks

When both return and err_code are 0, no taxes were found, but there is no error. The base_sale returned will equal the charge sent in. If the charge sent in is insufficient to cover the taxes generated, then no taxes will be calculated and the err_code will be set to -37. An error will be logged to the status file indicating an insufficient charge error occurred.



7.8.54 EZTaxSAUTaxInclusivePCode (EZTaxSAURevPCode deprecated)

Description

EZTaxSAUTaxInclusivePCode accepts transaction data and performs a tax inclusive calculation to arrive at the base sale amount. The desired total (charge plus all taxes) is placed in the 'charge' field in the transaction, and base charge necessary to generate that total is returned in the 'base_sale' parameter. Taxes for the desired transaction are returned in the same manner as EZTaxSAUPCode does. If the AFC session was started with the tax log open, tax calculations are logged and will be reflected in tax reports. FOB, ship_from and ship_to information is passed using JCodes. The base sale amount will also be stored in the 'optional' field in the log output, converted to an integer.

Format

```
short int EZTaxSAUTaxInclusivePCode(EZTaxSession session, struct sau_P_Code *trans, struct nexus_table *nexus_tab, short int nexus_count, double *base_sale, int *err_code);
```

Header(s) Required

EZTaxProto.h

EZTaxDefine.h

EZTaxStruct.h

Libraries

EZTax2.lib

Return Value List

- [-1]: A critical error occurred while preparing the tax inclusive calculation session
- [0]: No taxes calculated or an error was found
- [n]: Indicates number of taxes stored in the struct enhanced_taxes_tbl array for this transaction

Parameters

session: session handle returned when initialized with call to EZTaxInitEx

*trans: transaction information

*nex_tab: list of states where a business nexus exists.

nexus_count: number of entries in nex_tab
*base_sale: calculated charge returned
*err code: error status returned

Remarks

When both return and err_code are 0, no taxes were found, but there is no error. The base_sale returned will equal the charge sent in. If the charge sent in is insufficient to cover the taxes generated, then no taxes will be calculated and the err_code will be set to -37. An error will be logged to the status file indicating an insufficient charge error occurred.



7.8.55 EZTaxSAUTaxInclusiveZip (EZTaxSAURevZip deprecated)

Description

EZTaxSAUTaxInclusiveZip accepts transaction data and performs a tax inclusive calculation to arrive at the base sale amount. The desired total (charge plus all taxes) is placed in the 'charge' field in the transaction, and base charge necessary to generate that total is returned in the 'base_sale' parameter. Taxes for the desired transaction are returned in the same manner as EZTaxSAUZip does. If the AFC session was started with the tax log open, tax calculations are logged and will be reflected in tax reports. FOB, ship_from and ship_to information is passed using zip codes. The base sale amount will also be stored in the 'optional' field in the log output, converted to an integer.

Format

```
short int EZTaxSAUTaxInclusiveZip(EZTaxSession session, struct sau_Zip_Code *trans, struct nexus_table *nexus_tab, short int nexus_count, double *base_sale, int *err_code);
```

Header(s) Required EZTaxProto.h EZTaxDefine.h EZTaxStruct.h

Libraries

F7Tax2.lib

Return Value List

- [-1]: A critical error occurred while preparing the tax inclusive calculation session
- [0]: No taxes calculated or an error was found
- [n]: Indicates number of taxes stored in the struct enhanced_taxes_tbl array for this transaction

Parameters

session: session handle returned when initialized with call to F7TaxInitEx

*trans: transaction information

*nex tab: list of states where a business nexus exists.

nexus_count: number of entries in nex_tab
*base_sale: calculated charge returned
*err code: error status returned

Remarks

When both return and err_code are 0, no taxes were found, but there is no error. The base_sale returned will equal the charge sent in. If the charge sent in is insufficient to cover the taxes generated, then no taxes will be calculated and the err_code will be set to -37. An error will be logged to the status file indicating an insufficient charge error occurred.



7.8.56 EZTaxSAUZip

Description

EZTaxSAUZip accepts transaction data and performs appropriate tax calculations. If the AFC session was started with the tax log open, tax calculations are logged and will be reflected in tax reports. FOB, ship_from and ship_to information is passed using zip information.

Format

```
short int EZTaxSAUZip(EZTaxSession session,
struct sau_Zip_Code *trans,
struct nexus_table *nexus_tab,
short int nexus_count,
int *err_code);
```

Header(s) Required

EZTaxProto.h

EZTaxDefine.h

EZTaxStruct.h

EZTaxSauProto.h

EZTaxSauDefine.h

Libraries

EZTax2.lib

Return Value List

[0]: No taxes calculated or an error was found

[n]: Indicates number of taxes stored in the struct enhanced taxes tbl array for this transaction

Parameters

session: session handle returned when initialized with call to EZTaxInitEx

*trans : transaction information *err_code : error status returned

Remarks

7.8.57 EZTaxSessionDbVersion

Description

Function EZTaxSessionDbVersion reads the database version being used by the specified AFC session and returns it to the caller.

Format

short int EZTaxDbVersion(EZTaxSession session, char *psz_db_version);

Return Value List

TRUE if database version is returned in psz_db_version FALSE if database version couldn't be obtained

Parameters

session: session handle

*psz_db_version : address of character array that will receive the database version.

Remarks

The database version will be returned in the form ww.xx.yy.zz, where each piece of the database version number can be 1 or 2 digits.

7.8.58 EZTaxSetInvoiceModeEx

Description

Function EZTaxSetInvoiceModeEx sets Invoice Mode on or off – allocating or freeing memory for tables.

This function sets the Invoice Mode on or off. When the Invoice Mode is off AFC works in the normal fashion, each transaction passed is taxed with caps and limits calculated on a per transaction basis. When Invoice Mode is on, AFC performs appropriate tax calculations and returns the taxes calculated, AFC also keeps the tax amounts in memory and uses them to apply caps and limits to the taxes generated for each subsequent transaction. When EZTaxNextCustomerEx is called a summarized version of the taxes is returned.

Format

struct enhanced_cust_taxes_tbl *EZTaxSetInvoiceModeEx(EZTaxSession session, short int mode);

Header(s) Required EZTaxProto.h

EZTaxDefine.h

EZTaxStruct.h

Libraries

EZTax2.lib

Return Value List

pointer: to the tax table if successful

null: if an error occurred

Parameters

session : session handle returned for session when initialized with call to EZTaxInitEx mode: flag for turning Invoice Mode on (TRUE) or off (FALSE)

Remarks

Interface data structures are also described in detail in the AFC Data Structures section.

Before setting the Invoice Mode to false, EZTaxNextCustomerEx must be called in order to get the summarized taxes for the final customer (the summarized taxes should be processed prior to turning off the Invoice Mode). Failure to call EZTaxNextCustomerEx will cause the last customer's summarized taxes to be lost.

Note: The summarized taxes returned when calling EZTaxNextCustomerEx are identical to the total of the individual taxes returned from the taxing APIs. Typically one or the other is used but not both. Combining the individual taxes and the summarized taxes will result in twice as much taxes as should be normal.

7.8.59 EZTaxSetInvoiceModeV98

Description

Function EZTaxSetInvoiceModeV98 sets Invoice Mode on or off – allocating or freeing memory for tables. It differs from EZTaxSetInvoiceModeEx in that the tax table returned contains tax category information.

This function sets the Invoice Mode on or off. When the Invoice Mode is off AFC works in the normal fashion, each transaction passed is taxed with caps and limits calculated on a per transaction basis. When customer mode is on, AFC performs appropriate tax calculations and returns the taxes calculated, AFC also keeps the tax amounts in memory and uses them to apply caps and limits to the taxes generated for each subsequent transaction. When EZTaxNextCustomerEx is called a summarized version of the taxes is returned.

Format

struct cust_taxes_tbl_v98 *EZTaxSetInvoiceModeV98(EZTaxSession session, short int mode);

Header(s) Required

EZTaxProto.h EZTaxDefine.h EZTaxStruct.h

Libraries

F7Tax2.lib

Return Value List

pointer: to the tax table if successful

null: if an error occurred

Parameters

session : session handle returned for session when initialized with call to EZTaxInitEx mode: flag for turning Invoice Mode on (TRUE) or off (FALSE)

Remarks

Interface data structures are also described in detail in the AFC Data Structures section.

Before setting the Invoice Mode to false, EZTaxNextCustomerEx must be called in order to get the summarized taxes for the final customer (the summarized taxes should be processed prior to turning off the customer mode). Failure to call EZTaxNextCustomerEx will cause the last customer's summarized taxes to be lost.

Note: The summarized taxes returned when calling EZTaxNextCustomerEx are identical to the total of the individual taxes returned from the taxing APIs. Typically one or the other is used but not both. Combining the individual taxes and the summarized taxes will result in twice as much taxes as should be normal.

7.8.60 EZTaxSetNexus

Description

Function EZTaxSetNexus sets nexus on or off for the specified states.

This function sets the nexus information by jurisdiction on or off. For each nexus point in the nexus_table, the engine will calculate its jurisdiction and either set nexus on or off based on the has_nexus variable of the nexus_table structure.

Format

short int EZTaxSetNexus(EZTaxSession session, struct nexus_table *nexus_tbl, short int nexus_count);

Header(s) Required

EZTaxProto.h

F7TaxDefine.h

EZTaxStruct.h

Libraries

EZTax2.lib

Return Value List

TRUE if nexus information was changed;

FALSE otherwise

Parameters

session: session handle returned for session when initialized with call to EZTaxInitEx

*nexus table : Pointer to nexus table structure that contains nexus information.

See the nexus table struct in the header file EZTaxStruct.h.

nexus count: Number of nexus points in the structure.

Remarks

Interface data structures are also described in detail in the AFC Data Structures section.

Using this API with the nexus=on option in the configuration file is not recommended. This API is to be used as a programmatic option instead of a configuration file option.

7.8.61 EZTaxSetStateExclusions

Description

EZTaxSetStateExclusion uses the country code and, optionally, a state code to set an exclusion. A flag is used to determine if the country/state jurisdiction is to be turned off (enable regular taxation) or on (exclude country and/or state taxation for all jurisdictions within the country or state including county and local taxation). Transactions for an excluded state continue to return federal (country) level taxes for all transactions within the excluded state.

Note: The three-character country code should be used for countries and the two-character code should be used for states, including US territories.

In this context, references to state apply to either a state or province.

For US territories, the USA Federal exclusions have precedence over US Terriotry jurisdictions. As a result, all US Territory exclusions will be set or cleared along with US Federal exclusions when only USA is specified.

Please make note, country codes for US territories have been deprecated.

Format

short int EZTaxSetStateExclusion(EZTaxSession session, char country_ISO[4], char state_abv[3], short int flag);

Header(s) Required EZTaxProto.h EZTaxDefine.h

Libraries

EZTax2.lib

Return Value List

TRUE: EZTaxSetStateExclusion was successful.

FALSE: EZTaxSetStateExclusion failed.

Parameters

Session: session handle returned when initialized with call to EZTaxInitEx country_ISO: The country code. These are listed in EZTaxDefine.h. state abv: The state abbreviation. These are listed in EZTaxDefine.h.

State_abv. The state abbreviation. These are listed in Ezraxi

flag: TRUE – Exclude this state from taxation. FALSE: Do not exclude this state from taxation.

Remarks

None

7.8.62 EZTaxSetStateNexus

Description

EZTaxSetStateNexus uses a state code to set the nexus. A flag is used to determine if the state has nexus (true) or not (false).

Format

short int EZTaxSetStateNexus(EZTaxSession session, char state_abv[3], short int flag);

Header(s) Required EZTaxProto.h EZTaxDefine.h

Libraries

EZTax2.lib

Return Value List

TRUE: EZTaxSetStateNexus was successful.

FALSE: EZTaxSetStateNexus failed.

Parameters

Session: session handle returned when initialized with call to EZTaxInitEx state_abv: The state abbreviation. These are listed in EZTaxDefine.h.

flag: TRUE or FALSE.

Remarks

None

7.8.63 EZTaxWriteToLogEx

Description

Function EZTaxWriteToLogEx allows customers to create the correctly formatted binary AFC log from scratch by passing in data they have stored from a different database or saved from AFC transactions using EZTaxInitExp.

Format

Header(s) Required

EZTaxProto.h EZTaxStruct.h

Libraries

EZTax2.lib

Return Value List

FALSE: An error occurred

TRUE: Success

Parameters

session: Session handle returned when initialized with call to EZTaxInitEx

count: Number of taxes in the log structure *log : Log structure to save information from

Remarks

EZTaxWriteToLogEx does not support logging of the transaction type and service type.

7.8.64 EZTaxWriteToLogV914

Description

Function EZTaxWriteToLogV914 allows customers to create the correctly formatted binary AFC log from scratch by passing in data they have stored from a different database or saved from AFC transactions.

Format

short int EZTaxWriteToLogV914(EZTaxSession session, int count, struct eztax_log_v914 *log

Return Value List

FALSE: An error occurred

TRUE: Success

Parameters

session: session handle returned with call to initialize the AFC session.

count: Number of taxes in the log structure

*log: Log structure containing records to be written to file.

Remarks

EZTaxWriteToLogEx does not support logging of the transaction charge, the tax description, the tax category id or the tax category description.

7.8.65 EZTaxZtoJCodeEx

Description

EZTaxZtoJCodeEx utilizes zip code plus 4 and address information supplied by the user, to obtain a J-Code.

Format

```
unsigned long int EZTaxZtoJCodeEx(EZTaxSession session, struct zip_address_p4 *address, int *err code);
```

Header(s) Required

EZTaxProto.h EZTaxDefine.h

Libraries

EZTax2.lib

Return Value List

[0]: Error Code has been set. If the supplied address was not found or an error has occurred 0 is returned, which is a valid U.S. Federal level code. Please check the error code before using the JCode that is returned.

JCode: Error Code has not been set.

Parameters

session: Session handle returned when initialized with call to EZTaxInitEx

address: Address information with zip+4

*err_code : Error status returned

Remarks

AFC currently has Zip Code information for U.S. and Canadian jurisdictions. The six character Canadian postal code must be broken up for entry. The first 3 characters go into the zip code field and the last 3 characters go into the plus 4 field.

7.8.66 EZTaxZtoPCodeEx

Description

EZTaxZtoPCodeEx returns PCode cross-referenced to a zip code and address.

Format

unsigned long int EZTaxZtoPCodeEx(EZTaxSession session, struct zip_address_p4 *address, int *err_code);

Header(s) Required EZTaxProto.h

Libraries

EZTax2.lib

Return Value List

PCode: Permanent jurisdiction code. If the supplied address was not found or an error has occurred 0 is returned which is a valid U.S. Federal level code. Please check the error code before using the PCode that is returned.

Parameters

session: Session object returned for session when initialized with call to EZTaxInitEx.

*address : Pointer to zip_address_p4 structure containing valid address data, see struct in EZTaxStruct.h Interface data structures are also described in detail in the AFC Data Structures section.

*err_code : Error codes returned. See the header EZTaxDefine.h for definitions.

Remarks

AFC currently has Zip Code information for U.S. and Canadian jurisdictions. The six character Canadian postal code must be broken up for entry. The first 3 characters go into the zip code field and the last 3 characters go into the plus 4 field.

8. Appendices A - G

The complete content of the structures, constants and prototypes are provided in the following Appendices. Also included are the monthly update procedures and a help guide.

- 8.1 EZTaxStruct.h
- 8.2 EZTaxDefine.h
- 8.3 EZTaxProto.h
- 8.4 EZTaxSauStruct.h
- 8.5 EZTaxSauDefine.h
- 8.6 EZTaxSauProto.h
- 8.7 Monthly Update Procedure
- 8.8 Help Guide

8.1 Appendix A EZTaxStruct.h

```
EZTaxStruct.h
  The file defines structures that are required to interface with
   the EZTax system.
#ifndef _inc_EZTaxStruct_
#define _inc_EZTaxStruct_
/* If defined for C++ environment */
#ifdef __cplusplus
extern "C" {
#endif
#include "EZTaxDefine.h"
/* jurisdiction structure returned by EZTaxGetRates */
struct jurisdictionTaxes
   unsigned long int
                           pCode;
                                          /* jurisdiction's PCode */
   short int
                           taxesCount;
                                          /* count of all taxes for jurisdiction */
  struct enhancedOverride *taxesTable; /* table of all taxes for jurisdiction in override
               /* notes: (1) the scope value will be set to the tax level */
               /*
                       (2) the taxesTable should be freed when the results */
                               are no longer needed to prevent a memory leak */
};
/* Primary override structure for EZTax release 9 */
struct enhancedOverride
{
                                                /* Scope of override */
   short int
                                 scope;
   short int
                                                /* tax type identifier */
                                 type;
                                                /* tax level identifier */
   short int
                                 level;
   short int
                                  dateCount;
                                                /* number of date records (normally 2) */
                                                /* address of array of date records */
  struct enhancedDateOverride
                                 *dateTable;
/* entries in the dateTable for overrides if the tax type is telecom (non-sales tax) */
struct enhancedDateOverride
   unsigned long int overrideDate; /* starting (effective) date for this set of tax rates */
   short int
                                    /* number of rate records for this date (normally 1) */
                     rateCount;
                                     /* TRUE indicates tax can be exempted by an */
   short int
                     levelExempt;
                                    /* exemption for all taxes at the same level as */
/* this tax, FALSE indicates it cannot be exempted. */
                                     /* NOTE: Tax can be exempted by specific tax exemption. */
   struct enhancedRateOverride
                                              /* address of array of telecom rate records */
                                 *rateTable;
/* rate entries in rateTable for telecom taxes */
struct enhancedRateOverride
  double
               tax;
                                         /* tax amount (rate) */
                                          /* max amount subject to this tax(end of bracket) */
  double
               max_base;
   short int
                                         /* if TRUE tax replaces state tax */
               repl_st;
                                         /* overrides state rate if present */
  double
               st_ovrd_tax;
                                         /* if TRUE tax replaces county tax */
   short int
             repl_co;
  double
               co_ovrd_tax;
                                         /* if present, override county tax */
};
/* Deprecated tax override structure (Prior to version 9) */
struct tax_ovrd
   short int
                                        /* Scope of override */
                        scope;
```

```
short int
                       type;
                                      /* tax type identifier */
   short int
                       level;
                                      /* tax level identifier */
   short int
                       level_exempt; /* TRUE indicates tax can be exempted by an */
                                      /* exemption for all taxes at the same level as */
                                      /* this tax, FALSE indicates it cannot be exempted. */
                                      /* NOTE: Tax can be exempted by specific tax exemption. */
  short int
                       limit;
                                      /* limit - applies to local taxes to indicate */
                                      /* max lines to apply tax to. */
                                      /* tax effective date */
  unsigned long int
                       date;
  float
                        tax;
                                      /* tax amount */
                                      /* previous tax amount */
  float
                       prev_tax;
                                      /* max amount to which tax is */
  float
                       max base;
                                           applied - amounts above this */
                                      /*
                                      /*
                                            will be taxed at excess rate if */
                                          county has excess rate */
                                      /* rate for amount above max_base */
  float
                       excess tax;
                                      /* returned as part of county tax */
                                      /* overrides state rate if present */
  float
                       st_ovrd_tax;
                                     /* if present, override county tax */
  float
                       co_ovrd_tax;
                                     /* if TRUE tax replaces state tax */
/* if TRUE tax replaces county tax */
  short int
                       repl_st;
  short int
                       repl co;
/* logic Override structure */
struct logicOverride
                            /* See the programmer user's manual or EZTaxDefine.h */
  short int
               trans_type;
                              /* See the programmer user's manual for valid svc */
  short int
               srv_type;
  short int
                             /* tax type identifier */
               type;
  short int
                              /* tax level identifier */
               level;
                              /* Scope of override */
  short int
               scope;
                             /* number of date records (normally 1) */
  short int
               dateCount;
               *detailTable; /* pointer to table of detail logic overrides */
  void
/* logic Override Detail per effective date */
struct logicOverrideDetail
  unsigned long int date;
                                            /* logic effective date */
                                            /* calculation rule */
  short int calc_type_id;
  short int
                    data_type_id;
                                            /* tax data type (rate, flat, et cetera */
                                            /* effect on sales tax (city, co, st) */
  short int
                   eff_sales_id;
                   surcharge;
  short int
                                            /* indicates that tax is surcharge */
  short int
                   sale;
                                            /* TRUE, FALSE */
                                            /* TRUE, FALSE */
  short int
                    resale;
                   business;
  short int
                                            /* TRUE, FALSE */
                                           /* TRUE, FALSE */
                  residential;
  short int
                  regulated;
unregulated;
  short int
                                            /* TRUE, FALSE */
                                            /* TRUE, FALSE */
  short int
                                            /* TRUE, FALSE */
  short int
                   senior_citizen;
                   industrial;
                                            /* TRUE, FALSE */
  short int
  short int
                    lifeline;
                                            /* TRUE, FALSE */
  short int
                   ilec;
                                            /* TRUE, FALSE */
                                            /* TRUE, FALSE */
  short int
                   clec;
                                           /* TRUE, FALSE */
                   primary_ld;
  short int
                                            /* TRUE, FALSE */
                   primary_local;
franchise;
  short int
                                           /* TRUE, FALSE */
  short int
  short int
                   nonfranchise;
                                           /* TRUE, FALSE */
  short int
                    facilities;
                                            /* TRUE, FALSE */
                                           /* TRUE, FALSE */
  short int
                    nonfacilities;
                    tier_at_transaction; /* TRUE, FALSE */
  short int
                                            /* TRUE, FALSE */
   short int
                    billable;
                                            /* TRUE, FALSE */
  short int
                    pro_rated;
                                            /* 1=Tax Level, 2=City, 3=Local */
  short int
                    unrolled_id;
                                            /* TRUE, FALSE */
  short int
                    tier_on_total;
  short int
                                            /* TRUE, FALSE */
                    tax_by_oth;
                                            /* TRUE, FALSE */
  short int
                    compliance;
                                            /* Transaction amount multiplier */
  double
                    tam;
  double
                                            /* Transaction exempt amount */
                    tas;
                                            /* flag showing whether 0-rate */
  short int
                    ex_flag;
                                            /* brackets are exempt or not */
```

```
short int
                  taxTaxesCount;
                                          /* count of tax taxes entries */
  struct taxTaxesOverride *taxTaxesTable; /* ptr to table of taxes that this is taxed by */
/* logic Override Detail per effective date, with prepaid flag */
struct logicOverrideDetailP
                                          /* logic effective date */
  unsigned long int date;
              calc_type_id;
  short int
                                          /* calculation rule */
                                          /* tax data type (rate, flat, et cetera */
  short int
                   data_type_id;
                                         /* effect on sales tax (city, co, st) */
                  eff_sales_id;
  short int
                  surcharge;
sale;
                                          /* indicates that tax is surcharge */
  short int
                                          /* TRUE, FALSE */
  short int
                                          /* TRUE, FALSE */
  short int
                  resale;
                  business;
                                          /* TRUE, FALSE */
  short int
  short int
                                          /* TRUE, FALSE */
                   residential;
                  regulated;
                                          /* TRUE, FALSE */
  short int
                                          /* TRUE, FALSE */
  short int
                  unregulated;
                  senior_citizen;
industrial;
                                          /* TRUE, FALSE */
  short int
                                          /* TRUE, FALSE */
  short int
                                          /* TRUE, FALSE */
  short int
                  lifeline;
                  lifeline_only; ilec;
                                          /* TRUE, FALSE */
  short int
  short int
                                          /* TRUE, FALSE */
                                          /* TRUE, FALSE */
  short int
                  clec;
                                         /* TRUE, FALSE */
  short int
                  primary_ld;
                                          /* TRUE, FALSE */
                 primary_local;
franchise;
  short int
                                          /* TRUE, FALSE */
  short int
                                         /* TRUE, FALSE */
  short int
                  nonfranchise;
                  facilities;
nonfacilities;
                                          /* TRUE, FALSE */
  short int
                                          /* TRUE, FALSE */
  short int
                  tier_at_transaction; /* TRUE, FALSE */
  short int
                                          /* TRUE, FALSE */
  short int
                  billable;
                  pro_rated;
                                          /* TRUE, FALSE */
  short int
                                          /* 1=Tax Level, 2=Cty, 3=Local */
  short int
                   unrolled id;
  short int
                                          /* TRUE, FALSE */
                  tier_on_total;
  short int
                                          /* TRUE, FALSE */
                   tax_by_oth;
                                          /* TRUE, FALSE */
  short int
                   compliance;
                                          /* Transaction amount multiplier */
  double
                   tam;
                                          /* Transaction exempt amount */
  double
                   tas;
  short int
                   ex_flag;
                                          /* flag showing whether 0-rate */
                                          /* brackets are exempt or not */
                  prepaid;
  short int
                                          /* TRUE, FALSE */
  };
/* logic Override Detail per effective date, with prepaid flag */
struct logicOverrideDetailUseTax
  unsigned long int date;
                                          /* logic effective date */
  short int
                 calc_type_id;
                                          /* calculation rule */
                                          /* tax data type (rate, flat, et cetera */
  short int
                   data_type_id;
  short int
                   eff_sales_id;
                                          /* effect on sales tax (city, co, st) */
  short int
                                          /* indicates that tax is surcharge */
                   surcharge;
                                          /* TRUE, FALSE */
  short int
                  sale;
  short int
                   resale;
                                          /* TRUE, FALSE */
                                          /* TRUE, FALSE */
  short int
                   business;
                                          /* TRUE, FALSE */
  short int
                  residential;
                                          /* TRUE, FALSE */
  short int
                  regulated;
                  unregulated;
                                          /* TRUE, FALSE */
  short int
                                          /* TRUE, FALSE */
  short int
                   senior_citizen;
                                          /* TRUE, FALSE */
  short int
                  industrial;
                   lifeline;
                                          /* TRUE, FALSE */
  short int
  short int
                   lifeline_only;
                                          /* TRUE, FALSE */
                                          /* TRUE, FALSE */
  short int
                   ilec;
                                          /* TRUE, FALSE */
  short int
                  clec;
  short int
                  primary_ld;
                                          /* TRUE, FALSE */
                                          /* TRUE, FALSE */
  short int
                  primary_local;
                  franchise;
                                          /* TRUE, FALSE */
  short int
```

```
short int
                   nonfranchise;
                                            /* TRUE, FALSE */
   short int
                    facilities;
                                            /* TRUE, FALSE */
                                            /* TRUE, FALSE */
  short int
                    nonfacilities;
                                            /* TRUE, FALSE */
  short int
                    tier_at_transaction;
                                            /* TRUE, FALSE */
  short int
                   billable;
                                            /* TRUE, FALSE */
   short int
                    pro_rated;
                                            /* 1=Tax Level(no Unroll), 2=Cty, 3=Local */
  short int
                    unrolled id;
                                            /* TRUE, FALSE */
  short int
                    tier_on_total;
  short int
                                            /* TRUE, FALSE */
                    tax_by_oth;
                                            /* TRUE, FALSE */
  short int
                    compliance;
                                            /* Transaction amount multiplier */
  double
                    tam;
  double
                                            /* Transaction exempt amount */
                    tas;
   short int
                                            /* flag showing whether 0-rate */
                    ex_flag;
                                            /* brackets are exempt or not */
  short int
                    sales_flag;
                                            /* TRUE, FALSE */
  short int
                    use flag;
                                            /* TRUE, FALSE */
                                            /* TRUE, FALSE */
  short int
                    prepaid;
                                            /* TRUE, FALSE */
  short int
                    threshold;
                                            /* TRUE, FALSE */
  short int
                    consumed;
  short int
                    vendor_use;
                                            /* TRUE, FALSE */
                                            /* count of tax taxes entries */
  short int
                    taxTaxesCount;
  struct taxTaxesOverride *taxTaxesTable; /* pointer to table of taxes that this is taxed by
};
/* structure for each tax that this tax is taxed by */
struct taxTaxesOverride
             tax_type_id;
                              /* Identifier of tax that has this tax applied to it. */
  short int
              tax_level_id;
                              /* Identifier of level of tax_type_id */
  short int
};
/* Individual tax exempt structure */
struct tax_exempt
{
  short int
                      tax_type;
                                     /* tax type identifier */
                                     /* tax level identifier */
                      tax level;
  short int
  unsigned long int exempt_J_Code; /* for local exemption */
/* EZTax_data structure contains data required for tax calculations */
struct EZTax_data
                                     /* TRUE = business customer, FALSE = residential */
  short int
                       business;
                                     /* TRUE = Sale, FALSE = Resale */
  short int
                       sale;
   short int
                       regulated;
                                     /* TRUE = Regulated, FALSE = unregulated */
                                     /* See the programmer user's manual or EZTaxDefine.h */
  short int
                       trans_type;
  short int
                       srv_type;
                                     /* See the programmer user's manual for valid trans */
                       /* transaction and service type combinations. */
                       /* EZTaxDefine.h defines valid service types */
                                     /* Transaction bill date. Field is provided to */
  unsigned long int
                       date;
                                      /*
                                           allow rating and taxing to occur on */
                                      /*
                                           date other than billing date. */
  float
                                      /* amount charge to customer for transaction */
                        charge;
                                      /* Minutes of call, defaults to zero when */
   float
                       minutes;
                                      /*
                                           not appropiate (NOTE: some taxes are per minute. */
                                      /* number of lines (use with transaction type */
                                         LOCAL and service type LINES) */
                       locations;
                                      /* number of locations (use with transaction */
   int
                                          type LOCAL and service type LOCATION) */
  short int
                                      /* TRUE indicates within incorporated area */
                       incorp;
                                         of local jurisdiction, FALSE is outside */
                                     /* If TRUE, transaction exempt from Federal Tax */
  short int
                       FED_exempt;
  short int
                       st_exempt;
                                     /* If TRUE, transaction exempt from State Tax */
  short int
                       co_exempt;
                                     /* If TRUE, transaction exempt from County Tax */
  short int
                                     /* If TRUE, transaction exempt from local tax */
                       loc_exempt;
  unsigned long int
                                     /* Jurisdiction for Federal exemption */
                       FED_J_Code;
  unsigned long int
                       st_J_Code;
                                     /* Jurisdiction for state exemptionn */
  unsigned long int
                                     /* Jurisdiction for county exemption */
                       co_J_Code;
```

```
unsigned long int
                       loc_J_Code; /* Jurisdiction for local exemption */
   short int
                       spc_exempt;
                                     /* 0 indicates no of special exempts, */
                                      /* other value indicates number of special exempts */
                                     /* Pointer to tax exempt structure that contains the */
   struct tax_exempt
                        *s_exempt;
                                      /*
                                           number of special tax exemptions (spc_exempt) */
                                     /* Invoice number, user defined */
  unsigned long int
                        inv_no;
  unsigned long int
                        srv_lvl_no;
                                     /* Service level number, user defined */
                                      /* User defined value for reporting */
  unsigned long int
                        optional;
                        cust_no[CUST_NO_SIZE]; /* Customer number, user defined */
  char
};
/* EZTax_dataEx structure contains data required for tax calulations */
struct EZTax_dataEx
   short int
                                          /* 0=residential, 1=business, 2=Senior Citizen,
                        customer_type;
3=Industrial */
                                          /* See the programmer user's manual or EZTaxDefine.h */
                                         /* TRUE = Sale, FALSE = Resale */
   short int
                       sale;
                                          /* TRUE = Regulated, FALSE = unregulated */
  short int
                        regulated;
                                          /* See the programmer user's manual or EZTaxDefine.h */
   short int
                        trans_type;
  short int
                                          /* See the programmer user's manual for valid trans */
                        srv type;
                          /* transaction and service type combinations. */
                           /* EZTaxDefine.h defines valid service types */
   short int
                       business_class;
                                         /* CLEC = 1, ILEC = 0 */
                                          /* Primary Long Distance = 1, Local Service = 0 */
  short int
                       service_class;
                                          /* (Default Long Distance) */
   short int
                        facilities_based; /* Facilities Based=TRUE, Non-Facilities Based=FALSE */
                                          /* (Default Non-Facilities) */
   short int
                        franchise;
                                          /* Franchise = TRUE, Non-Franchise = FALSE */
                                          /* (Default Non-Franchise) */
   short int
                        lifeline;
                                          /* Lifeline = TRUE, Non-lifeline = FALSE */
  unsigned long int
                                          /* Transaction bill date. Field is provided to */
                        date;
                                          /*
                                             allow rating and taxing to occur on */
                                              date other than billing date. */
  double
                                          /* amount charge to customer for transaction */
                        charge;
  double
                                          /* Minutes of call, defaults to zero when not */
                        minutes;
                                          /* appropriate (some taxes are per minute) */
                                          /* number of lines (use with transaction type */
   int
                        lines;
                                          /*
                                             LOCAL and service type LINES) */
                                          /* number of locations (use with transaction */
   int
                        locations;
                                              type LOCAL and service type LOCATION) */
                                          /* TRUE indicates within incorporated area */
  short int
                        incorp;
                                          /*
                                              of local jurisdiction, FALSE is outside */
                                          /* If TRUE, transaction exempt from Federal Tax */
  short int
                       FED_exempt;
  short int
                        st_exempt;
                                          /* If TRUE, transaction exempt from State Tax */
  short int
                                          /* If TRUE, transaction exempt from County Tax */
                        co_exempt;
  short int
                        loc_exempt;
                                          /* If TRUE, transaction exempt from local tax */
  unsigned long int
                       FED_J_Code;
                                          /* Jurisdiction for Federal exemption */
                                          /* Jurisdiction for state exemption */
  unsigned long int
                       st_J_Code;
  unsigned long int
                        co_J_Code;
                                          /* Jurisdiction for county exemption */
  unsigned long int
                       loc_J_Code;
                                          /* Jurisdiction for local exemption */
                                          /* 0 indicates no of special exempts, */
  short int
                        spc_exempt;
                                          /* other value indicates number of special exempts */
   struct tax_exempt
                        *s_exempt;
                                          /* Pointer to tax exempt structure that contains the */
                                               number of special tax exemptions (spc_exempt) */
                                          /* Reason for exemption */
                        exempt_type;
  short int
                                          /* Invoice number, user defined */
  unsigned long int
                        inv_no;
                        srv_lvl_no;
                                          /* Service level number, user defined */
  unsigned long int
  unsigned long int
                                          /* User defined value for reporting */
                        optional;
  char
                        cust_no[CUST_NO_SIZE]; /* Customer number, user defined */
  char
                        company_identifier[CO_IDENTIFIER_SIZE];
                                                                   /* Company Identifier */
                                                                    /* optional alpha field */
   char
                        opt_alpha_1[CUST_NO_SIZE];
  unsigned long int
                                                /* optional numeric field */
                        opt_4;
  unsigned long int
                                                /* optional numeric field */
                        opt_5;
  unsigned long int
                        opt_6;
                                                /* optional numeric field */
  unsigned long int
                                                /* optional numeric field */
                        opt_7;
  unsigned long int
                        opt_8;
                                               /* optional numeric field */
                        opt_9;
                                               /* optional numeric field */
  unsigned long int
  unsigned long int
                       opt_10;
                                                /* optional numeric field */
};
```

```
/* The J_Code structure is used for interfacing with EZTax using J_Codes. */
/* This data structure is passed to EZTax with the function EZTaxJCode. */
struct J_Code
   unsigned long int
                        BTN_J_Code;
                                                /* Bill To Number Jurisdiction Code */
   unsigned long int
                        orig_J_Code;
                                                 /* Origination number Jurisdiction Code */
                                                 /* Termination number Jurisdiction Code */
   unsigned long int
                        term_J_Code;
                                                 /* Required tax information */
   struct EZTax_data
                        tax_data;
/* The J_CodeEx structure is used for interfacing with EZTax using J_Codes. */
^{\prime \star} This data structure is passed to EZTax with the extended function EZTaxJCodeEx. ^{\star \prime}
struct J_CodeEx
   unsigned long int
                        BTN_J_Code;
                                                 /* Bill To Number Jurisdiction Code */
                                                /* Origination number Jurisdiction Code */
  unsigned long int
                        orig_J_Code;
                                                 /* Termination number Jurisdiction Code */
   unsigned long int
                        term_J_Code;
                                                 /* Required tax information */
   struct EZTax_dataEx tax_data;
};
^{\prime \star} The this_J_Code structure is used for interfacing with EZTax using ^{\star}/
/* a specific J_Code. This data structure is passed to EZTax with the */
^{\prime \star} function EZTaxThisJCode. With this function taxes will be calculated ^{\star \prime}
/* based upon the jurisdiction represented by the specified J_Code. */
struct this_J_Code
   unsigned long int
                        J_Code;
                                                 /* Jurisdiction for tax determination */
                                                 /* Required tax information */
  struct EZTax_data
                        tax_data;
/* The this_J_CodeEx structure is used for interfacing with EZTax using */
/* a specific J_Code. This data structure is passed to EZTax with the */
/* function EZTaxThisJCodeEx. With this function taxes will be calculated */
^{\prime \star} based upon the jurisdiction represented by the specified J_Code. ^{\star\prime}
struct this_J_CodeEx
                        J_Code;
   unsigned long int
                                                /* Jurisdiction for tax determination */
   struct EZTax_dataEx tax_data;
                                                 /* Required tax information */
};
/* The this_P_Code structure is used for interfacing with EZTax using */
/* a specific P_Code. This data structure is passed to EZTax with the */
/* function EZTaxThisPCode. With this function taxes will be calculated */
/\,^\star based upon the jurisdiction represented by the specified PCode. ^\star/
struct this P Code
   unsigned long int
                        P_Code;
                                                 /* Jurisdiction for tax determination */
  struct EZTax_data
                        tax_data;
                                                 /* Required tax information */
};
/* The this_P_Code structure is used for interfacing with EZTax using */
/* a specific P_Code. This data structure is passed to EZTax with the */
/* function EZTaxThisPCodeEx. With this function taxes will be calculated */
/* based upon the jurisdiction represented by the specified PCode. */
struct this_P_CodeEx
  unsigned long int
                       P_Code;
                                                /* Jurisdiction for tax determination */
                                                 /* Required tax information */
  struct EZTax_dataEx tax_data;
/* The priv_line_P_Code structure is used for interfacing with EZTax using */
/* two specifics P_Codes. This data structure is passed to EZTax with the */
/* function EZTaxPrivateLine. With this function taxes will be calculated */
/* based upon the jurisdictions represented by the specified PCode,
/* allocated to each jurisdiction by the percentage value
                                                                             * /
struct private_line_P_Code
   unsigned long int
                                                 /* Jurisdiction for tax determination */
                        point A;
                                                 /* Jurisdiction for tax determination */
   unsigned long int
                        point Z;
   double
                        split;
                                                 /* percentage of charge that should */
                                                 /* be applied to the first jurisdiction */
```

```
struct EZTax_dataEx tax_data;
                                              /* Required tax information */
/* The P_Code structure is used for interfacing with EZTax using P_Codes. */
/* This data structure is passed to EZTax with the function EZTaxPCode. */
struct P_Code
                        BTN_P_Code;
                                                /* Bill To Number PCode */
   unsigned long int
                                                /* Origination number PCode */
   unsigned long int
                        orig_P_Code;
                                               /* Termination number PCode */
   unsigned long int
                        term_P_Code;
   struct EZTax_data
                                                /* Required tax information */
                        tax_data;
/* The P_Code structure is used for interfacing with EZTax using P_Codes. */
/* This data structure is passed to EZTax with the function EZTaxPCodeEx. */
struct P_CodeEx
  unsigned long int
                       BTN_P_Code;
                                              /* Bill To Number PCode */
  unsigned long int
                        orig_P_Code;
                                               /* Origination number PCode */
                                               /* Termination number PCode */
  unsigned long int
                        term_P_Code;
   struct EZTax_dataEx tax_data;
                                                /* Required tax information */
};
/* The NPANXX structure is used for interfacing with EZTax using NPANXXs. */
^{\prime \star} This data structure is passed to EZTax with the function EZTaxNPAN. ^{\star}/
struct NPANXX_code
   unsigned long int
                       BTN_NPANXX;
                                                /* Bill To NPANXX Code */
                        orig_NPANXX;
                                                /* Origination NPANXX Code */
  unsigned long int
                                                /* Termination NPANXX Code */
   unsigned long int
                        term_NPANXX;
                       tax_data;
                                                /* Required tax information */
   struct EZTax_data
};
/* The NPANXX_codeEx structure is used for interfacing with EZTax using NPANXXs. */
/* This data structure is passed to EZTax with the function EZTaxNPANEx. */
struct NPANXX codeEx
   unsigned long int
                       BTN NPANXX;
                                      /* Bill To NPANXX Code */
                                     /* Origination NPANXX Code */
  unsigned long int
                        orig_NPANXX;
                                     /* Termination NPANXX Code */
  unsigned long int
                        term_NPANXX;
  struct EZTax_dataEx tax_data;
                                      /* Required tax information */
/* The zip_address structure is used to pass address data to */
/* EZTax in order to obtain a jurisdiction code. */
struct zip_address
  long int
                        zip code;
                                       /* Zip code of taxing jurisdiction */
                                       /* state identifier */
   unsigned short int
                        state_id;
                                       /* County name in null terminated string */
   char
                        county[25];
                        locality[26]; /* Locality name in null terminated string */
   char
/* zip_address structure to accommodate Zip code Plus 4 */
struct zip_address_p4
   char
            zip_code[6];
                                       /* String containing zip code */
                                       /* String containing zip_p4 */
  char
            zip_p4[5];
                                      /* String containing country ISO code */
   char
            country_ISO[4];
   char
           state_abv[3];
                                       /* String containing state level abbreviation */
                                       /* County name in null terminated string */
   char
           county[25];
  char
           locality[26];
                                      /* Locality name in null terminated string */
/\,^\star The zip_code structure is used for interfacing with EZTax using address ^\star/
/* information. This data structure is passed to EZTax with the function */
/* EZTaxZip. */
struct zip_code
```

```
struct zip_address zip_addr;
struct EZTax_data tax_data;
/* Zip code structure for use with Zip plus 4 */
struct zip_code_p4
  /* Zip code structure for use with Zip plus 4 */
struct zip_codeEx
  ^{\prime \star} The BridgeConferenceTransaction structure is used for calculating tax for a ^{\star \prime}
/* bridge conference with 1 to n participants. */
/* Note: USA PCode of 0 is considered invalid for Bridge/Billing/Host - for USA must be state
level or lower */
struct BridgeConferenceTransaction
  unsigned short int ProcessInvalidParticipant; /* Process invalid Participants w/greatest tax
  liability (default=false) */
  unsigned short int IsAdjustment;
                                        /* Flag indicating call is an adjustment or
  credit calculation */
  unsigned short int DiscountType;
                                         /* Discount type (for adjustment calculation -
  else ignored) */
  struct zip_address_p4 *ParticipantAddressList; /* Participant Address List */
  unsigned long int BridgePCode;
                                        /* Bridge PCode
  unsigned long int BridgeNpaNxx;
                                       /* Bridge NpaNxx */
/* Bridge Address */
  struct zip_address_p4 BridgeAddress;
  unsigned long int HostPCode;
                                       /* Host PCode
                                       /* Host NpaNxx
  unsigned long int HostNpaNxx;
  struct zip_address_p4 HostAddress;
                                        /* Host Address
  unsigned long int BillingPCode;
                                        /* Billing PCode */
                                        /* Billing NpaNxx */
  unsigned long int BillingNpaNxx;
  struct zip_address_p4 BillingAddress;
                                        /* Billing Address */
  struct EZTax_dataEx trans_data;
                                       /* Required transaction information */
};
struct BridgeConferenceParticipant
                     /* By order received - 1 to N */
  int ParticipantId;
                        /* Where in tax table participant starts */
  int Offset;
                        /* Number of taxes in tax table for participant */
  int TaxCount;
  int ErrorCode;
                         /* Error code (if applicable) for participant */
  short int TransactionType; /* The transaction type used for participant */
  };
struct BridgeConferenceTaxes
  struct EZTax_log_v914 *BCTaxes; /* Individual Participant Taxes for Conference */
unsigned short int TaxCount; /* Total number of taxes in BCTaxes array */
  struct BridgeConferenceParticipant* BCParticipants; /* Participant array */
```

```
/* Structures use by EZTaxTPP and EZTaxAdjTPP */
struct TPP_addr
   struct zip_address_p4 ship_from;
                                          /* origin ZIP code+4 and address information */
                                          /* delivery ZIP code+4 and address information */
   struct zip_address_p4
                         ship_to;
   struct zip_address_p4 point_of_accpt; /* bill-to ZIP code+4 and address information */
   struct EZTax_data
                           tax_data;
                                           /* Required tax information */
/* Structures use by EZTaxTPPEx and EZTaxAdjTPPEx */
struct TPP_addrEx
   struct zip_address_p4
                                          /* origin ZIP code+4 and address information */
                          ship_from;
                                           /* delivery ZIP code+4 and address information */
   struct zip_address_p4
                          ship_to;
   struct zip_address_p4    point_of_accpt; /* bill-to ZIP code+4 and address information */
                                          /* Required tax information */
   struct EZTax_dataEx
                          tax_data;
struct nexus_table
{
               state[3];
                                           /* state abbreviation */
  short int have_nexus;
                                           /* TRUE, FALSE */
/* The taxes structure defines the data structure used to return tax
/* information to the user. The functions EZTaxJCode, EZTaxNPAN, and
/* EZTaxZip each return a short int. Zero indicates that no taxes were
/* calculated for the transaction passed. If taxes were calculated, the
/* value returned indicates the number of taxes returned in an array
/* of struct taxes with the size of array being the number of taxes,
/* Use the following definition to access the calculated taxes
/* "extern struct taxes *tax_tbl;". The following code segment
/* demonstrates an acceptable method of retrieving calculated tax data.
/*
/*
      struct taxes_tbl
     extern struct taxes_tbl *EZTax_table;
/*
          for (i=0; i<rtn_value; i++);</pre>
              tax = EZTax_table[i];
/*
              -- Perform billing system required task
struct taxes_tbl
   unsigned long int
                        j_code;
                                     /* Despite the name, really the p-code */
  short int
                                     /* Tax type */
                        tax_type;
                                     /* Tax level */
   short int
                        tax_level;
   short int
                        calc_type;
                                     /* Calc type; RATE, FIXED, PER_MINUTE, PER_LINE,
SELFTAXING_RATE */
                        rate;
                                     /* Tax rate or amount applied */
                                     /* Calculated tax amount */
   double
                        tax amount;
#if defined(PF_V8_TAXABLE_MEASURE)
  double
                       taxable_measure; /* Amount of charge + any taxed taxes */
#endif
  char
                        *desc;
                                        /* Tax description string */
   short int
                                                            /* for EZView */
                        TVcalc_type_id;
                                                            /* for EZView */
   short int
                        TVsurcharge;
                        TVtax_type_id[EZVIEW_ID_ARRAY];
                                                            /* for EZView */
   short int
                        TVtax_level_id[EZVIEW_ID_ARRAY];
                                                            /* for EZView */
   short int
};
/* The enhanced_taxes_tbl structure provides for additional precision */
struct enhanced_taxes_tbl
```

```
p_code;
  unsigned long int
                                   /* p-code for tax */
                                   , p-code for t
/* Tax type */
/* T
  short int
                       tax_type;
                                     /* Tax level */
  short int
                       tax_level;
  short int
                       calc_type;
                                   /* Calc type; RATE, FIXED, PER_MINUTE, PER_LINE,
SELFTAXING_RATE */
                                     /* Tax rate or amount applied */
                       rate;
                       tax_amount; /* Calculated tax amount */
  double
  double
                       taxable_measure; /* Amount of charge + any taxed taxes */
                       exempt_sale_amt; /* Amount of the charge exempt from taxes */
  double
                     *desc; /* Tax description string */
billable; /* Billable flag from tax logic */
  char
  short int
                                        /* Compliance flag from tax logic */
                     compliance;
  short int
                                        /* Surcharge flag from tax logic */
                       surcharge_flag;
  short int
                      TVcalc_type_id;
                                                           /* for EZView */
  short int
                                                           /* for EZView */
  short int
                      TVsurcharge;
                                                         /* for EZView */
  short int
                       TVtax_type_id[EZVIEW_ID_ARRAY];
                                                           /* for EZView */
  short int
                       TVtax_level_id[EZVIEW_ID_ARRAY];
/* The taxes_tbl_v98 structure adds tax category information */
struct taxes_tbl_v98
                     p_code;
  unsigned long int
                                     /* p-code for tax */
  short int
                       tax_type;
                                     /* Tax type */
                                    /* Tax level */
  short int
                      tax_level;
                                   /* Calc type; RATE, FIXED, PER_MINUTE, PER_LINE,
  short int
                       calc_type;
SELFTAXING_RATE */
                                     /* Tax rate or amount applied */
  double
                       rate;
  double
                      tax_amount; /* Calculated tax amount */
  double
                       taxable_measure; /* Amount of charge + any taxed taxes */
                                               /* Amount of the charge exempt from taxes */
  double
                       exempt_sale_amt;
                                              /* Tax description string */
  char
                       *desc;
                                              /* Billable flag from tax logic */
  short int
                     billable;
                     compliance;
surcharge_flag;
tax_cat_id;
                                              /* Compliance flag from tax logic */
  short int
                                              /* Surcharge flag from tax logic */
  short int
  short int
                                              /* Tax category */
                                               /* Tax category description string */
  char
                       *tax_cat_desc;
                       reserved[RESERVE_SIZE]; /* reserved for BillSoft use */
  char
                      TVcalc_type_id; /* for EZView */
  short int
                                                         /* for EZView */
  short int
                      TVsurcharge;
                                                         /* for EZView */
/* for EZView */
  short int
                       TVtax_type_id[EZVIEW_ID_ARRAY];
  short int
                      TVtax_level_id[EZVIEW_ID_ARRAY];
/* The customer taxes table is similar to the taxes_tbl structure. See comments above */
/* This table is returned to the user from EZTaxSetCustMode(). This table contains a summarized
* /
/* tax information per customer */
struct cust_taxes_tbl
  unsigned long int
                                     /* Jurisdiction code for tax */
                       j_code;
  short int
                       tax_type;
                                     /* Tax type */
                                     /* Tax level */
  short int
                       tax level;
                                   /* Calc type; RATE, FIXED, PER_MINUTE, PER_LINE,
  short int
                       calc_type;
SELFTAXING_RATE */
  float
                       rate;
                                     /* Tax rate or amount applied */
                       tax_amount;  /* Calculated tax amount */
  double
                                     /* Tax description string */
  char
                       *desc;
  short int
                       TVsurcharge;
                                    /* for EZView */
                                     /* Number of lines from customer input */
  int
                       lines;
  int
                       locations;
                                     /* Number of locations from customer input */
  float
                       max_base;
                                     /* max amount to which tax is applied */
                                     /* amounts above this will be taxed at excess rate if */
                                     /* county has excess rate */
                                     /* rate for amount above max_base */
  float
                       excess_tax;
                                     /* returned as part of county tax */
                       limit;
                                     /* limit on the amount a charge can be taxed*/
  int
                       total_charge; /* Sum of charges calc. on per customer basis */
  double
```

```
/* The enhanced invoice(customer) taxes table is similar to the taxes_tbl and */
/* cust_taxes_tbl structures. See comments for these two other structures */
/* above. This table is returned to the user from EZTaxSetCustModeEx() or
EZTaxSetInvoiceModeEx(). */
/* This table contains a summarized tax information per customer or invoice */
#define enhanced_invoice_taxes_tbl enhanced_cust_taxes_tbl
struct enhanced_cust_taxes_tbl
                                         /* j-code for tax */
   unsigned long int
                        j_code;
                        tax_type;
                                         /* Tax type */
   short int
                                         /* Tax level */
   short int
                       tax_level;
                                         /* Calculation type (RATE, FIXED, etc.) */
   short int
                        calc_type;
                                         /* Tax rate or amount applied */
/* Calculated tax amount */
   double
                        rate;
   double
                       tax_amount;
   double
                        exempt_sale_amt; /* Amount of the charge exempt from taxes */
                                         /* Tax description string */
   char
                        *desc;
                                          /* for EZView */
   short int
                        TVsurcharge;
                                         /* # of lines from customer input */
   int
                       lines;
                                         /* # of locations from customer input */
   int
                       locations;
                                          /* # of minutes from customer input */
   double
                       minutes;
                                         /* max amount to which tax is applied. */
                        max_base;
   double
                                         /* Amounts above this will be taxed at a */
/* higher bracketed rate (if applicable). */
   double
                        min_base;
                                          /* min amount to which tax is applied */
                                          /* rate for amount above max_base returned */
   double
                       excess_tax;
                                         /*
                                              as part of county tax */
   double
                       total_charge;
                                          /* Sum of charges calc. on per customer basis */
                                         /* Customer mode tax data for logging */
   void
                        *cust_tax_data;
};
/* The invoice(customer) taxes table V98 is similar to the taxes_tbl and */
/* cust_taxes_tbl structures. See comments for these two other structures */
/* above. This table is returned to the user from EZTaxSetCustModeV98() or
EZTaxSetInvoiceModeV98(). */
/* This table contains a summarized tax information per customer or invoice */
#define invoice_taxes_tbl_v98 cust_taxes_tbl_v98
struct cust_taxes_tbl_v98
                                        /* j-code for tax */
   unsigned long int
                        j_code;
   short int
                        tax_type;
                                         /* Tax type */
                      tax_level;
                                         /* Tax level */
   short int
   short int
                      calc_type;
                                         /* Calculation type (RATE, FIXED, etc.) */
                                        /* Tax rate or amount applied */
   double
                       rate;
   double
                       tax_amount;
                                          /* Calculated tax amount */
   double
                       exempt_sale_amt; /* Amount of the charge exempt from taxes */
                                         /* Tax description string */
   char
                       *desc;
                                         /* for EZView */
   short int
                       TVsurcharge;
                                          /* # of lines from customer input */
   int
                       lines;
   int
                       locations;
                                         /* # of locations from customer input */
                                         /* # of minutes from customer input */
   double
                       minutes;
   double
                        max_base;
                                          /* max amount to which tax is applied. */
                                         /* Amounts above this will be taxed at a */
/* higher bracketed rate (if applicable). */
   double
                        min_base;
                                          /* min amount to which tax is applied */
                                          /* rate for amount above max_base returned */
   double
                        excess_tax;
                                          /* as part of county tax */
                                         /* Sum of charges calc. on per customer basis */
                        total_charge;
   double
   short int
                        tax cat id;
                                          /* Tax category */
                        *tax_cat_desc;
                                         /* Tax category description string */
   char
};
/* declare address structure */
struct address_data
               tax_level;
                               /* Federal, State, County/Parish, Local */
   short int
  char
               locality[26];
                               /* City name string */
   char
                              /* County name string */
              county[25];
                               /* Two character state abbreviation */
              state[2];
   char
   long int
              zip_begin;
                               /* Lowest zip code in range for identified area */
                              /* Highest zip code in range for identified area */
   long int
              zip_end;
```

```
};
struct address_data_p4
   short int
               tax_level;
                               /* Tax level identifier */
                                /* City name string */
   char
               locality[26];
                               /* Clty name string */
   char
               county[25];
   char
               state[2];
                                /* Two character state abbreviation */
               country_ISO[4]; /* Country ISO code */
   char
                               /* zip code or beginning of range */
/* Zip begin plus 4 */
   char
               zip_begin[6];
   char
               zipb_p4[5];
                               /* zip code or end of range */
               zip_end[6];
   char
               zipe_p4[5];
                                /* Zip end plus 4 */
   char
};
struct file_path
                                 /* EZTax db file */
   char
            *EZTax_data;
                                 /* EZTax idx file */
   char
            *EZTax_IDX;
                                 /* EZTax dll */
   char
            *EZTax_DLL;
                                 /* EZTax log */
            *EZTax_log;
  char
   char
            *EZTax_npanxx;
                                 /* EZTax NPANXX file */
                                 /* EZTax status file */
   char
            *EZTax_status;
   char
            *EZTax_temp_file;
                                 /* EZTax temporary file */
                                 /* EZTax location description file */
            *EZTax_location;
  char
                                 /* EZTax zip code file */
   char
            *EZTax_zip;
   char
            *EZTax_customer_key; /* EZTax customer key file */
                                 /* EZTax PCODE file */
            *EZTax_pcode;
  char
   char
                                 /* EZTax JCODE file */
            *EZTax_jcode;
                                 /* EZTax override file */
            *EZTax_over;
   char
};
struct file_path_v914
            *EZTax_data_dir;
                                     /* EZTax data directory */
   char
                                     /* Working directory */
   char
            *EZTax_work_dir;
                                     /* EZTax log */
   char
            *EZTax_log_file;
                                      /* EZTax status file */
   char
            *EZTax_status_file;
                                      /* EZTax override file */
  char
            *EZTax_ovr_file;
                                     /* EZTax exclusion file */
   char
            *EZTax_exc_file;
   char
            *EZTax_nex_file;
                                      /* EZTax nexus file */
                                      /* EZTax bundle file */
   char
            *EZTax_bdl_file;
};
/* structure used when doing local logging using EZTaxInitExp */
struct taxes_tbl_exp
  struct taxes_tbl *taxtable; /* pointer to tax table */
struct EZTax_log *EZTaxlog; /* pointer to EZTax binary log */
};
/* Tax log structure, Use this structure for writing to EZTax binary log. */
struct EZTax_log
                        p_code;
   unsigned long int
                                                 /* from tax table, convert jcode to pcode */
   short int
                                                 /* from tax table */
                        tax_type;
   short int
                                                 /* from tax table */
                        tax_level;
   double
                                                 /* from tax table */
                        tax;
   double
                        tax amount;
                                                 /* from tax table */
   double
                                                 /* taxable measure from tax table */
                        sale_amt;
   double
                        exempt_sale_amt;
                                                /* taxable measure if tax = 0 */
                        refund_uncollect;
                                                 /* taxable measure if tax < 0 */</pre>
   double
   double
                        net_taxable_sale;
                                                 /* reserved by EZTax, default to 0 */
                                                 /* customer input */
   double
                        minutes;
                                                 /* optional, user defined invoice number */
   unsigned long int
                        inv_no;
                                                 /* optional, service type */
/* optional, transaction type */
   unsigned long int
                        srv_lvl_no;
   unsigned long int
                        optional;
                                                 /* customer input */
   int
                        lines;
                                                 /* customer input */
   int
                        locations;
   short int
                        calc_type;
                                                  /* calculation type from tax table */
```

```
char
                      cust_no[CUST_NO_SIZE]; /* optional, user defined customer identifier */
                                              /* reserved by EZTax, default to 0 */
   int
                      reserved1;
                                              /* reserved by EZTax, default to 0 */
  int
                      reserved2;
  double
                      reserved3;
                                              /* reserved by EZTax, default to 0 */
/* \ {\tt Tax log structure, use this structure with EZTaxWriteToLogEx for writing to EZTax log. */ } \\
struct EZTax logEx
  unsigned long int
                      p_code;
                                              /* from tax table, convert jcode to pcode */
                                             /* from tax table */
  int
                      tax_type;
  short int
                                             /* from tax table */
                      tax_level;
                                             /* from tax table */
/* from tax table */
  double
                      tax;
  double
                      tax amount;
                                             /* taxable measure from tax table */
  double
                      sale_amt;
                                            /* taxable measure if tax = 0 */
/* taxable measure if tax < 0 */</pre>
  double
                      exempt_sale_amt;
  double
                      refund_uncollect;
                                             /* customer input */
  double
                      minutes;
                                             /* optional, user defined invoice number */
  unsigned long int
                      inv_no;
                                             /* optional, service type */
/* optional, transaction type */
  unsigned long int
                      srv_lvl_no;
  unsigned long int
                      optional;
                                             /* customer input */
                      lines;
  int
                                            /* customer input */
                      locations;
  int
  short int
                      calc_type;
                                             /* calculation type from tax table */
                                             /* billable flag from tax_grp */
  short int
                      billable;
                      short int
                      compliance;
   char
                      exempt_type;
                                              /* adjustment type from customer input */
  int
  int
                                            /* exemption type from customer input */
                                            /* surcharge flag from tax table */
                       surcharge_flag;
  int
                                             /* counter of log records */
  unsigned long int
                      log_counter;
                      char
                       char
                                             /* optional user input */
  unsigned long int
                      opt_4;
  unsigned long int
                                              /* optional user input */
                      opt_5;
  unsigned long int
                                              /* optional user input */
                      opt_6;
                      opt_7;
                                             /* optional user input */
  unsigned long int
                                             /* optional user input */
  unsigned long int
                      opt_8;
                                             /* optional user input */
  unsigned long int
                      opt_9;
                                             /* optional user input */
  unsigned long int
                      opt_10;
struct EZTax_log_v914
   /* EZTax_logEx entries */
                                            /* from tax table, convert jcode to pcode */
  unsigned long int    p_code;
                                             /* from tax table */
/* from tax table */
  int
                      tax_type;
  short int
                      tax_level;
                                             /* from tax table */
  double
                      tax;
                                             /* from tax table */
  double
                      tax_amount;
                                             /* taxable measure from tax table */
  double
                      sale_amt;
                      exempt_sale_amt;
                                             /* taxable measure if tax = 0 */
  double
                                            /* taxable measure if tax < 0 */</pre>
  double
                      refund_uncollect;
  double
                      minutes;
                                             /* customer input */
  unsigned long int
                                              /* optional, user defined invoice number */
                      inv_no;
  unsigned long int
                                             /* optional, service type */
                      srv_lvl_no;
                                             /* optional, transaction type */
  unsigned long int
                      optional;
  int
                      lines;
                                             /* customer input */
  int
                      locations;
                                             /* customer input */
                                             /* calculation type from tax table */
  short int
                      calc_type;
  short int
                      billable;
                                             /* billable flag from tax_grp */
                                              /* compliance flag from tax_grp */
  short int
                      compliance;
                      cust_no[CUST_NO_SIZE]; /* optional, user defined customer identifier */
  char
                                             /* adjustment type from customer input */
  int
                       adj_type;
                                              /* exemption type from customer input */
  int
                       exempt_type;
                                             /* surcharge flag from tax table */
                       surcharge_flag;
  int
  unsigned long int
                                              /* counter of log records */
                       log counter;
                       company_identifier[CO_IDENTIFIER_SIZE];
                                                                 /* customer number */
  char
  char
                       opt_alpha_1[CUST_NO_SIZE]; /* optional user input */
                                              /* optional user input */
  unsigned long int
                      opt_4;
```

```
/* optional user input */
  unsigned long int
                     opt_5;
                                             /* optional user input */
/* optional user input */
  unsigned long int
                       opt_6;
  unsigned long int
                       opt_7;
                                              /* optional user input */
  unsigned long int
                       opt_8;
                       opt_9;
                                              /* optional user input */
  unsigned long int
  unsigned long int
                                              /* optional user input */
                       opt_10;
   /* Extended entries */
                                            /* transaction type */
/* service type */
  short int trans_type;
  short int
                       srv_type;
                                             /* applied trans charge amount */
  double
                      trans_charge;
                                              /* Tax description string */
  char
                      *desc;
                      tax_cat_id;
                                              /* Tax category */
/* Tax category description string */
  short int
  char
                       *tax_cat_desc;
                                              /* pointer to internal data */
  void*
                       int data;
};
^{\prime \star} Reconcile transaction report data struct - extended tsr report data fields ^{\star \prime}
struct rtr_data
  short int stateId; /* State ID */
                      /* Country ID */
/* eg: 20000 (maps to bundle transaction type) */
  short int ctryId;
  int bundlePkg;
                       /* eg: 20008 (maps to bundle service type)
  int bundleId;
                       /* Transaction type */
  int transType;
                        /* Service Type */
  int svcType;
  double charge;
                       /* Client supplied charge */
  double calcCharge;  /* Calculated charge (for tax inclusive calcs) */
};
/* no-tax transaction structure, use with EZTaxGetNoTaxTrans */
struct no_tax_tbl
  unsigned long int
                       p_code;
                                              /* jurisdiction applied */
  short int
                       trans_type;
                                               /* transaction type from input transaction */
  short int
                                              /* service type from input transaction */
                      srv_type;
  short int
                                              /* attribute from input transaction */
                       attr;
  double
                       charge;
                                               /* charge amount from input transaction */
  char
                      company_identifier[CO_IDENTIFIER_SIZE]; /* cust num from input trans */
  char
                      cust_no[CUST_NO_SIZE]; /* customer number from input transaction */
#ifdef __cplusplus
#endif
#endif /* _inc_EZTaxStruct_ */
```

8.2 Appendix B EZTaxDefine.h

```
EZTaxDefine.h
#ifndef _inc_EZTaxDefine_
#define _inc_EZTaxDefine_
/* if defined for C++ environment */
#ifdef __cplusplus
extern "C" {
#endif
/* add a couple of platform-independence defines */
#if defined(WIN32)
    #undef PF_V8_TAXABLE_MEASUR
/* function export define */
    #ifndef PF_FUNC_SPEC
        #ifdef BSI_EXPORT_DLL
            #define PF_FUNC_SPEC __declspec (dllexport)
            #define PF_FUNC_SPEC __declspec (dllimport)
        #endif
    #endif
#else
    #define PF_V8_TAXABLE_MEASURE 1
/* function export define */
   #define PF_FUNC_SPEC
#endif
/* Define CACHE_ALL - Used to request caching of entire file */
#define CACHE_ALL
#define EZTAX_VERSION
                                                               "9.19.1807.1"
#define EZTAX_MAJOR_VERSION
                                                               9
#define EZTAX_DB_VERSION
                                                               19z
/* Define VERSION_MAX_LENGTH: Maximum length of EZTAX_VERSION plus '\0' */
/* MINOR_VERSION is build number (eg: 1403) */
^{\prime \star} INCR_VERSION is build iteration (0-9) - the limit of 9 is from assembly version limits ^{\star \prime}
#define VERSION_MAX_LENGTH
                                                               13
#define MINOR_VERSION_MIN
                                                               0
#define MINOR_VERSION_MAX
                                                               9999
#define INCR_VERSION_MIN
                                                               0
#define INCR_VERSION_MAX
                                                               9
/* define maximum length for a starting directory path */
#define MAX_PATH_LEN
/* define upper limit for max_base in tax tables */
#define MAX_BASE_LIMIT
                                                               2147483647
typedef void *EZTaxSession;
/* Define TRUE and FALSE */
#ifndef TRUE
#define TRUE
                                                               1
#endif
#ifndef FALSE
#define FALSE
                                                               0
#endif
/* Define IO status values */
#ifndef MORE
#define MORE
                                                               0
#endif
```

```
#ifndef FOUND
#define FOUND
#endif
#ifndef LAST
#define LAST
                                                             2
#endif
#ifndef NO IO YET
#define NO_IO_YET
                                                             3
#endif
#ifndef NOT_FOUND
#define NOT_FOUND
                                                             4
#endif
/* Define size of Cust_no in tax_log */
#define CUST_NO_SIZE
                                                             2.0
/* Define size of tax type description here so users */
/* will know the max size to store the description */
#define TAX_DESCRIPTION_LENGTH
                                                             51
/* Define size of company_identifier */
#define CO_IDENTIFIER_SIZE
                                                             20
/* Define size of EZView arrays inside taxes table */
#define EZVIEW_ID_ARRAY
                                                             10
/* define size of reserved space in taxes table */
#define RESERVE_SIZE
                                                             2.0
/* define adjustment method types */
#define ADJUSTMENT_DEFAULT
                                                             0
#define ADJUSTMENT_LEAST_FAVORABLE
                                                             1
#define ADJUSTMENT_MOST_FAVORABLE
                                                             2
#define ADJUSTMENT_NOT_APPLICABLE
                                                             3
/* Define default regulated/unregulated setting */
#define DEFAULT_REGULATED_UNREGULATED
                                                             FALSE
/* Define customer types */
#define RESIDENTIAL
                                                             Ω
#define BUSINESS
                                                             1
#define SENIOR_CITIZEN
                                                             2
#define INDUSTRIAL
                                                             3
#define DEFAULT_CUSTOMER_TYPE
                                                             1
/* Define business classes */
#define CLEC
                                                             1
#define ILEC
                                                             Ω
#define DEFAULT_BUSINESS_CLASS
                                                             1
/* Define service classes */
#define PRIMARY_LONG_DISTANCE
#define PRIMARY_LOCAL_SERVICE
                                                             Ω
#define DEFAULT_SERVICE_CLASS
/* Define sale/resale/consumed values */
#define WHOLESALE
                                                             0 /* Resale and Wholesale are
synonymous */
#define RESALE
#define SALE_RETAIL
                                                                /* Sale and Retail are synonymous
                                                             1
#define SALE
                                                             1
#define CONSUMED
                                                             2
#define VENDOR_USE
                                                             3
/* Define relationship values */
#define EQUAL_TO
                                                             0
#define LESS_THAN
                                                             -1
```

```
#define GREATER_THAN
                                                            1
#define UNINITIALIZED
                                                            86
#define SAME_SIGN
                                                            2
/* Define Error Codes */
#define EZT_NO_ERROR
#define INVALID TRANSACTION
                                                             _1
#define JCODE_NOT_FOUND
                                                            -11
#define PCODE_NOT_FOUND
                                                            -12
#define ZIPCODE_NOT_FOUND
                                                            -13
#define NPANXX_NOT_FOUND
                                                            -14
#define ADDRESS_NOT_FOUND
                                                            -15
#define CO_ST_ZP_NOT_FOUND
                                                            -16
#define SESSION_NOT_INIT
                                                            -17
#define JCDB_NOT_OPEN
                                                            -18
#define PCDB NOT OPEN
                                                            -19
#define ZIPDB_NOT_OPEN
                                                            -20
#define NPDB_NOT_OPEN
                                                            -21
#define ADDB_NOT_OPEN
                                                            -2.2
#define JURISDICTION_NOT_FOUND
                                                            -23
#define FIPS_NOT_FOUND
                                                            -24
#define FIPS NOT OPEN
                                                            -25
#define PCODEFIPS_NOT_OPEN
                                                            -26
#define INVALID_TRANSACTION_DATE
                                                            -27
#define INVALID_TRANSRV_PAIR
                                                            -28
#define LOG_NAME_NOT_SET
                                                            -29
#define INVALID_ATTR
                                                            -30
#define INVALID_PROPERTY
                                                            -31
#define TS_NOT_SUPPORTED
                                                            -32
#define NEXUS_ERROR
                                                            -33
#define TS_NOT_LICENSED
                                                            -34
#define SYSTEM MEMORY ERROR
                                                            -35
#define PRIVATE_LINE_SPLIT_OUT_OF_RANGE
                                                            -36
#define REV_CALC_SESSION_FAILURE
                                                            -37
#define TAX_INCLUSIVE_CALC_SESSION_FAILURE
                                                            -37
#define TAX_ON_TAX_FAILURE
                                                            -38
#define CUSTOM_LOG_SIZE_EXCEEDED
                                                            -39
#define INVALID_EXCLUSION
                                                            -40
#define INVALID BRIDGECONF DATA
                                                            -41
#define INVALID_SAFE_HARBOR_TYPE
                                                            -42
#define INVALID_SAFE_HARBOR_FRACTION
                                                            -43
#define BUNDLEDITEM_TAX_ITEMS_EXCEEDED
                                                            -44
#define BUNDLED_FIXED_EXCEEDS_CHARGE
                                                            -45
#define BUNDLED_TS_PAIR_NOT_FOUND
                                                            -46
#define BUNDLED_TS_PAIR_INVALID_SYNTAX
                                                            -47
#define INTERSTATE_NOT_VALID_FOR_INTERNATIONAL_CALLS
                                                            -48
/* Codes set by function EZTaxTPP and EZTaxAdjTPP */
#define MISSING_OR_INVALID_SHIP_FROM
                                                            -27
#define INVALID_SHIP_TO_ADDRESS
                                                            -28
#define INVALID_POINT_OF_ACCEPTANCE
                                                            -29
#define INVALID_STATE_INPUT
                                                            -30
#define ZIPCODE_DATABASE_NOT_OPEN
                                                            -31
/* Deprecation error */
#define FUNCTION DEPRECATED
/* Define size of getRates return table for RPG interface */
#define RPG GETRATES ARRY SIZE
/* Codes set by RPG Wrapper APIs */
#define GETRATES_TAXES_TABLE_OVERFLOW
                                                            -200
#define OVERRIDE_TAXES_TABLE_CNT_NOT_ONE_OR_MORE
                                                            -201
#define OVERRIDE INPUT LARGER THAN DEFLT ARRY SIZE
                                                            -202
#define OVERRIDE_CONTAINS_DUPLICATE_BRACKET_IN_RATES
                                                            -203
#define MORE_THAN_ONE_TAX_STRUCT_PASSED_TO_OVERRIDE
/* Define user bundle id start range */
                                                            20000
#define BUNDLE_ID_START
```

```
/* Group options for tax calculation results */
#define DEFAULT
                                                             0
#define GROUP_SAME_LEVEL
                                                             1
#define GROUP_CO_LOCAL
#define GROUP_ST_CO_LOCAL
                                                             4
#define GROUP_SALES
#define GROUP_SALES_CATEGORY
                                                             24
/* define file indicators */
#define NPANXX
                                                             1
#define ZIPCODE
                                                             2
#define ADDRESS
                                                             3
#define PCODE
                                                             4
#define JCODE
                                                             5
#define FIPS
#define PCDFIPS
                                                             7
/* Define tax levels */
#define FEDERAL_LEVEL
                                                             0
#define STATE_LEVEL
                                                             1
#define COUNTY LEVEL
                                                             2
#define LOCAL_LEVEL
#define COUNTY_LEVEL_U
                                                             4
#define OTHER_LEVEL
                                                             5
#define ST_CO_LOCAL_LEVEL
                                                             6
#define CO_LOCAL_LEVEL
                                                             7
/* Define tax data calculation types. */
#define RATE
                                                             1
#define FIXED
                                                             2
#define PER_MINUTE
                                                             3
#define PER LINE
                                                             4
#define SELFTAXING_RATE
                                                             5
#define PER_BRACKET
                                                             6
#define FIXED_ON_TIER
                                                             7
/* Customer mode specific calculations */
#define CUST_PER_LINE
                                                             8
#define CUST_PER_BRACKET
                                                             9
#define CUST PER LINE TOTAL
                                                             10
#define CUST_PER_BRACKET_TOTAL
                                                             11
/* Define sort filters */
#define SORT_NO_FILTER_SET
                                                             Ω
#define SORT_FILTER_CUST_PER
                                                             1
#define SORT_FILTER_CUST_TOT
                                                             2
/* Define discount types */
#define NO_DISCOUNT
                                                             0
#define RETAIL_PRODUCT
                                                             1
#define MANUFACTURER_PRODUCT
                                                             2
#define ACCOUNT_LEVEL
                                                             3
#define SUBSIDIZED
                                                             4
#define GOODWILL
                                                             5
/* Define exemptions */
#define NO_EXEMPTION_TYPE
                                                             O
#define FED_SALES_SUPREMECY
#define STATE_LOCAL_GOV_SALES
                                                             2
#define SALES_FOR_RESALE
                                                             3
#define FED_COUPONS_WIC_VOUCHERS
#define REDUCED_FOOD_RATE
                                                             5
#define NON_PROFIT_SALES
                                                             6
#define PUBLIC_SCHOOL_SALES
#define RELIGIOUS_CHARITABLE_SALES
#define PRESCRIPTION_DRUG_SALES
                                                             9
#define PROSTHO_ORTHO_DEVICES
                                                             10
#define INSULIN SALES
                                                             11
#define INTER_STATE_FOREIGN_SALES
                                                             12
#define INGREDIENT_COMPONENT_PARTS
                                                             13
/* Define tax-on-tax iterations */
```

```
#define TAX_ON_TAX_ONCE
                                                                 0
#define TAX_ON_TAX_ITERATE_ON_TAX_AMOUNT
#define TAX_ON_TAX_ITERATE_ON_TAXABLE_MEASURE
                                                                 1
                                                                 2
/* Define Safe Harbor Override Types */
#define EZTAX_SAFE_HARBOR_CELLULAR_TYPE
                                                                 1
#define EZTAX_SAFE_HARBOR_VOIP_TYPE
                                                                  2
#define EZTAX_SAFE_HARBOR_PAGING_TYPE
#define EZTAX_SAFE_HARBOR_CLEAR_ALL
/* Pro-rated adjustment related defines */
#define NO_PRORATED_APPLICATION
                                                                 0
#define STANDARD_PRORATED_ADJUSTMENT
                                                                 1
#define CANCEL_PRORATED_CALCULATION
                                                                  2
#ifdef __cplusplus
#endif
#endif /* _inc_EZTaxDefine_ */
```

EZTaxTaxTvpe.h

```
#ifndef _inc_EZTaxTaxTypeDefine_
#define _inc_EZTaxTaxTypeDefine_
#ifdef __cplusplus
extern "C" {
#endif
/* Define tax types */
#define NO_TAX
                                                             Ω
                                                                                  /*No Tax*/
#define SALES_TAX
                                                                                  /*Sales Tax*/
                                                             1
#define BUSINESS_AND_OCCUPATION_TAX
                                                             2
                                                                                  /*Business and
Occupation Tax*/
#define CARRIER_GROSS_RECEIPTS
                                                                                  /*Carrier Gross
                                                             3
Receipts*/
#define DISTRICT_TAX
                                                             4
                                                                                  /*District Tax*/
#define EXCISE TAX
                                                                                  /*Excise Tax*/
                                                             5
#define FEDERAL_EXCISE_TAX
                                                                                  /*Federal Excise
                                                             6
Tax*/
#define FED_USF_A_SCHOOL
                                                             7
                                                                                  /*Fed USF A -
School*/
#define LICENSE_TAX
                                                             Q
                                                                                  /*License Tax*/
#define PUC_FEE
                                                             9
                                                                                  /*P.U.C. Fee*/
#define E911
                                                                                  /*E-911*/
                                                             10
#define SERVICE_TAX
                                                             11
                                                                                  /*Service Tax*/
#define SPECIAL_TAX
                                                                                  /*Special Tax*/
                                                             12
#define STATE_UNIVERSAL_SERVICE_FUND
                                                             13
                                                                                  /*State Universal
Service Fund*/
#define STATUTORY_GROSS_RECEIPTS
                                                             14
                                                                                  /*Statutory Gross
Receipts*/
#define SURCHARGE
                                                             15
                                                                                  /*Surcharge*/
#define UTILITY_USERS_TAX
                                                                                  /*Utility Users
                                                             16
Tax*/
#define SALES_WEB_HOSTING
                                                             17
                                                                                  /*Sales (Web
Hosting)*/
#define FED_UNIVERSAL_SERVICE_FUND
                                                                                  /*Fed Universal
                                                             18
Service Fund*/
                                                                                  /*State High Cost
#define STATE_HIGH_COST_FUND
                                                             19
Fund*/
#define STATE_DEAF_AND_DISABLED_FUND
                                                             20
                                                                                  /*State Deaf and
Disabled Fund*/
#define CA_TELECONNECT_FUND
                                                                                  /*CA Teleconnect
                                                             21
Fund*/
#define UNIVERSAL_LIFELINE_TELEPHONE_SERVICE_CHARGE
                                                             2.2
                                                                                  /*Universal
Lifeline Telephone Service Charge*/
#define TELECOM_RELAY_SURCHARGE
                                                             23
                                                                                  /*Telecom Relay
Surcharge*/
#define TELECOMMUNICATIONS_INFRASTRUCTURE_MAINTENANCE_FEE
                                                             2.4
/*Telecommunications Infrastructure Maintenance Fee*/
                                                             25
#define POISON_CONTROL_FUND
                                                                                  /*Poison Control
#define TELECOMMUNICATIONS_INFRASTRUCTURE_FUND
                                                             26
/*Telecommunications Infrastructure Fund*/
#define NY_MCTD_186C
                                                                                  /*NY MCTD 186c*/
                                                             27
#define NY_MCTD_184A
                                                             28
                                                                                  /*NY MCTD 184a*/
#define FRANCHISE TAX
                                                             29
                                                                                  /*Franchise Tax*/
#define UTILITY_USERS_TAX_BUSINESS
                                                             30
                                                                                  /*Utility Users
Tax - Business*/
#define FED_TELECOMMUNICATIONS_RELAY_SERVICE
                                                                                  /*Fed
                                                             31
Telecommunications Relay Service*/
#define DISTRICT_TAX_RESIDENTIAL_ONLY
                                                                                  /*District Tax
                                                             32
(Residential Only)*/
#define TRANSIT TAX
                                                             33
                                                                                  /*Transit Tax*/
#define TELECOMMUNICATIONS_ASSISTANCE_SERVICE_FUND
                                                             34
/*Telecommunications Assistance Service Fund*/
#define E911_BUSINESS
                                                             35
                                                                                  /*E911
(Business)*/
```

#define TRS_BUSINESS	36	/*TRS
(Business)*/		
<pre>#define UNIVERSAL_SERVICE_FUND_LINE Service Fund (Line)*/</pre>	37	/*Universal
#define UNIVERSAL_SERVICE_FUND_BUSINESS_LINE	38	/*Universal
Service Fund (Business Line)*/ #define E911_PBX_TRUNK_LINE line)*/	39	/*E911 (PBX/Trunk
#define LICENSE_TAX_BUSINESS (Business)*/	40	/*License Tax
#define OPTIONAL_TIMF	41	/*Optional TIMF*/
<pre>#define SALES_TAX_BUSINESS (Business)*/</pre>	42	/*Sales Tax
(Business) / #define E911_RESIDENTIAL (Residential)*/	43	/*E911
#define E911_WIRELESS	44	/*E911
(Wireless)*/ #define NY_FRANCHISE_184	45	/*NY Franchise
184*/ #define NY_FRANCHISE_184_USAGE	46	/*NY Franchise
184 Usage*/ #define NY_MCTD_184A_USAGE	47	/*NY MCTD 184a
Usage*/ #define UNIVERSAL_SERVICE_FUND_WIRELESS	48	/*Universal
Service Fund (Wireless)*/ #define USE_TAX	49	/*Use Tax*/
#define SALES_TAX_DATA	50	/*Sales Tax
(Data)*/ #define MUNICIPAL_RIGHT_OF_WAY	51	/*Municipal Right
of Way*/ #define MUNICIPAL_RIGHT_OF_WAY_BUSINESS	52	/*Municipal Right
of Way (Business)*/ # <mark>define MUNICIPAL_RIGHT_OF_WAY_PRIVATE_LINE</mark>	53	/*Municipal Right
of Way (Private Line)*/ #define UTILITY_USERS_TAX_WIRELESS	54	/*Utility Users
Tax - Wireless*/ #define FED_USF_CELLULAR	55	/*Fed USF
Cellular*/ #define FED_USF_PAGING	56	/*Fed USF
Paging*/ #define SALES_TAX_INTERSTATE	57	/*Sales Tax
(Interstate)*/ #define UTILITY_USERS_TAX_PBX_TRUNK	58	/*Utility Users
Tax (PBX Trunk)*/ #define DISTRICT_TAX_WEB_HOSTING	59	/*District Tax
(Web Hosting)*/ #define CA_HIGH_COST_FUND_A	60	/*CA High Cost
Fund A*/ #define TELECOMMUNICATIONS_EDUCATION_ACCESS_FUND	61	
/*Telecommunications Education Access Fund*/ #define FED_TRS_CELLULAR	62	/*Fed TRS
Cellular*/ #define FED_TRS_PAGING	63	/*Fed TRS
Paging*/ #define COMMUNICATIONS_SERVICE_TAX	64	/*Communications
Service Tax*/ #define VALUE_ADDED_TAX	65	/*Value Added Tax
(VAT)*/ #define GOODS_AND_SERVICE_TAX	66	/*Goods and
Service Tax (GST)*/ #define HARMONIZED_SALES_TAX	67	/*Harmonized
Sales Tax (HST)*/ #define PROVINCIAL_SALES_TAX	68	/*Provincial
Sales Tax (PST)*/ #define QUEBEC_SALES_TAX	69	/*Quebec Sales
Tax (QST)*/ #define NATIONAL_CONTRIBUTION_REGIME	70	/*National
Contribution Regime (NCR)*/ #define UTILITY_USERS_TAX_CABLE_TELEVISION	71	/*Utility Users
Tax (Cable Television)*/		-

#define FCC_REGULATORY_FEE	72	/*FCC Regulatory
Fee*/ #define FRANCHISE_TAX_CABLE	73	/*Franchise Tax
(Cable)*/ #define UNIVERSAL_SERVICE_FUND_PAGING	74	/*Universal
Service Fund (Paging)*/ #define STATUTORY_GROSS_RECEIPTS_WIRELESS	75	/*Statutory Gross
Receipts (Wireless)*/ #define SGT_E911_TAX	76	/*Sage E911 Tax*/
<pre>#define SGT_E911_TAX_BUSINESS</pre>	77	/*Sage E911 Tax
(Business)*/ #define SGT_E911_TAX_PBX_TRUNK_LINE	78	/*Sage E911 Tax
(PBX/Trunk line)*/ #define SGT_E911_TAX_RESIDENTIAL	79	/*Sage E911 Tax
<pre>(Residential)*/ #define SGT_E911_TAX_WIRELESS (Wireless)*/</pre>	80	/*Sage E911 Tax
#define SGT_LICENSE_TAX	81	/*Sage License
Tax*/ #define FRANCHISE_TAX_WIRELESS	82	/*Franchise Tax
(Wireless)*/ #define FEDERAL_USF_ALTERNATE	83	/*Federal USF
(Alternate)*/	03	/ redelal USF
<pre>#define PEG_ACCESS_FEE Education and Government (PEG) Access Fee*/</pre>	84	/*Public
#define COMMUNICATIONS_SERVICE_TAX_SATELLITE	85	/*Communications
Service Tax (Satellite)*/ #define FRANCHISE_TAX_SATELLITE	86	/*Franchise Tax
(Satellite)*/ #define CARRIER_COST_RECOVERY	87	/*Carrier Cost
Recovery*/ #define FEDERAL_TRS_ALTERNATE	88	/*Federal TRS
(Alternate)*/ #define TRS_CENTREX	89	/*TRS (Centrex)*/
#define UTILITY_USERS_TAX_CABLE_TELEVISION_BUSINESS	90	/*Utility Users
Tax (Cable Television - Business)*/ #define UTILITY_USERS_TAX_CENTREX	91	/*Utility Users
Tax (Centrex)*/ #define E911_CENTREX	92	/*E911
(Centrex)*/ #define UTILITY_USERS_TAX_LINE	93	/*Utility Users
Tax (Line)*/		-
<pre>#define CRIME_CONTROL_DISTRICT_TAX District Tax*/</pre>	94	/*Crime Control
#define LIBRARY_DISTRICT_TAX	95	/*Library
District Tax*/ #define HOSPITAL_DISTRICT_TAX	96	/*Hospital
District Tax*/ #define HEALTH_SERVICES_DISTRICT_TAX	97	/*Health Services
District Tax*/		
<pre>#define EMERGENCY_SERVICES_DISTRICT_TAX Services District Tax*/</pre>	98	/*Emergency
<pre>#define IMPROVEMENT_DISTRICT_TAX District Tax*/</pre>	99	/*Improvement
#define DEVELOPMENT_DISTRICT_TAX District Tax*/	100	/*Development
#define TRANSIT_WEB_HOSTING_TAX	101	/*Transit Web
Hosting Tax*/ #define AMBULANCE_DISTRICT_TAX	102	/*Ambulance
District Tax*/ #define FIRE_DISTRICT_TAX	103	/*Fire District
Tax*/ #define POLICE_DISTRICT_TAX	104	/*Police District
Tax*/ #define FOOTBALL_DISTRICT_TAX	105	/*Football
District Tax*/ #define BASEBALL_DISTRICT_TAX	106	/*Baseball
District Tax*/ #define CRIME_CONTROL_DISTRICT_WEB_HOSTING_TAX	107	/*Crime Control
District Web Hosting Tax*/	_0,	, CIIMC CONCIOI

#define LIBRARY_DISTRICT_WEB_HOSTING_TAX	108	/*Library
District Web Hosting Tax*/ #define HOSPITAL_DISTRICT_WEB_HOSTING_TAX	109	/*Hospital
District Web Hosting Tax*/ #define HEALTH_SERVICES_DISTRICT_WEB_HOSTING_TAX	110	/*Health Services
District Web Hosting Tax*/	110	/ Health Services
<pre>#define EMERGENCY_SERVICES_DISTRICT_WEB_HOSTING_TAX Services District Web Hosting Tax*/</pre>	111	/*Emergency
#define IMPROVEMENT_DISTRICT_WEB_HOSTING_TAX	112	/*Improvement
District Web Hosting Tax*/ #define DEVELOPMENT_DISTRICT_WEB_HOSTING_TAX	113	/*Development
District Web Hosting Tax*/ #define UTILITY_USERS_TAX_INTERSTATE	114	/*Utility Users
Tax (Interstate)*/		-
<pre>#define UTILITY_USERS_TAX_TELEGRAPH Tax (Telegraph)*/</pre>	115	/*Utility Users
<pre>#define E911_NETWORK_AND_DATABASE_SURCHARGE And Database Surcharge*/</pre>	116	/*E911 Network
#define LICENSE_TAX_EMERGENCY	117	/*License Tax
<pre>Emergency*/ #define LICENSE_TAX_EMERGENCY_BUSINESS</pre>	118	/*License Tax
<pre>Emergency (Business)*/ #define EDUCATIONAL_SALES_TAX</pre>	119	/*Educational
Sales Tax*/		
<pre>#define EDUCATIONAL_USE_TAX Tax*/</pre>	120	/*Educational Use
#define E911_OPERATIONAL_SURCHARGE_COUNTY_COMMISSION	121	/*E911
Operational Surcharge County Commission*/ #define E911_OPERATIONAL_SURCHARGE_VOTER_APPROVED	122	/*E911
Operational Surcharge Voter Approved*/ #define SALES TAX NINE HUNDRED	123	/*Sales Tax Nine
Hundred*/		
<pre>#define CONVENTION_CENTER_TAX Center Tax*/</pre>	124	/*Convention
<pre>#define E911_HIGH_CAPACITY_TRUNK Capacity Trunk*/</pre>	125	/*E911 High
#define SCHOOL_BOARD_TAX_A	126	/*School Board
	120	, , , , , , , , , , , , , , , , , , , ,
Tax A*/ #define SCHOOL_BOARD_TAX_B	127	/*School Board
Tax A*/		
Tax A*/ #define SCHOOL_BOARD_TAX_B Tax B*/	127	/*School Board
Tax A*/ #define SCHOOL_BOARD_TAX_B Tax B*/ #define SCHOOL_BOARD_TAX_C Tax C*/ #define SCHOOL_BOARD_TAX_D Tax D*/	127 128 129	/*School Board /*School Board /*School Board
Tax A*/ #define SCHOOL_BOARD_TAX_B Tax B*/ #define SCHOOL_BOARD_TAX_C Tax C*/ #define SCHOOL_BOARD_TAX_D Tax D*/ #define SCHOOL_BOARD_TAX_E Tax E*/	127 128 129 130	/*School Board /*School Board /*School Board /*School Board
Tax A*/ #define SCHOOL_BOARD_TAX_B Tax B*/ #define SCHOOL_BOARD_TAX_C Tax C*/ #define SCHOOL_BOARD_TAX_D Tax D*/ #define SCHOOL_BOARD_TAX_E	127 128 129	/*School Board /*School Board /*School Board
Tax A*/ #define SCHOOL_BOARD_TAX_B Tax B*/ #define SCHOOL_BOARD_TAX_C Tax C*/ #define SCHOOL_BOARD_TAX_D Tax D*/ #define SCHOOL_BOARD_TAX_E Tax E*/ #define SCHOOL_BOARD_TAX_F Tax F*/ #define SCHOOL_BOARD_TAX_F	127 128 129 130	/*School Board /*School Board /*School Board /*School Board
Tax A*/ #define SCHOOL_BOARD_TAX_B Tax B*/ #define SCHOOL_BOARD_TAX_C Tax C*/ #define SCHOOL_BOARD_TAX_D Tax D*/ #define SCHOOL_BOARD_TAX_E Tax E*/ #define SCHOOL_BOARD_TAX_F Tax F*/ #define SCHOOL_BOARD_TAX_F #define SCHOOL_DISTRICT_TAX Tax*/ #define POLICE_JURY_TAX_B	127 128 129 130 131	/*School Board /*School Board /*School Board /*School Board /*School Board
Tax A*/ #define SCHOOL_BOARD_TAX_B Tax B*/ #define SCHOOL_BOARD_TAX_C Tax C*/ #define SCHOOL_BOARD_TAX_D Tax D*/ #define SCHOOL_BOARD_TAX_E Tax E*/ #define SCHOOL_BOARD_TAX_F Tax F*/ #define SCHOOL_BOARD_TAX_F Tax F*/ #define SCHOOL_DISTRICT_TAX Tax*/ #define POLICE_JURY_TAX_B B*/ #define POLICE_JURY_TAX_C	127 128 129 130 131	/*School Board /*School Board /*School Board /*School Board /*School Board /*School District
Tax A*/ #define SCHOOL_BOARD_TAX_B Tax B*/ #define SCHOOL_BOARD_TAX_C Tax C*/ #define SCHOOL_BOARD_TAX_D Tax D*/ #define SCHOOL_BOARD_TAX_E Tax E*/ #define SCHOOL_BOARD_TAX_F Tax F*/ #define SCHOOL_BOARD_TAX_F Tax F*/ #define SCHOOL_DISTRICT_TAX Tax*/ #define POLICE_JURY_TAX_B B*/ #define POLICE_JURY_TAX_C C*/ #define POLICE_JURY_TAX_E	127 128 129 130 131 132	/*School Board /*School Board /*School Board /*School Board /*School Board /*School Board /*School District /*Police Jury Tax
Tax A*/ #define SCHOOL_BOARD_TAX_B Tax B*/ #define SCHOOL_BOARD_TAX_C Tax C*/ #define SCHOOL_BOARD_TAX_D Tax D*/ #define SCHOOL_BOARD_TAX_E Tax E*/ #define SCHOOL_BOARD_TAX_F Tax F*/ #define SCHOOL_BOARD_TAX_F Tax F*/ #define SCHOOL_DISTRICT_TAX Tax*/ #define POLICE_JURY_TAX_B B*/ #define POLICE_JURY_TAX_C CC*/ #define POLICE_JURY_TAX_E E*/ #define COMMUNICATIONS_SERVICE_TAX_WIRELESS	127 128 129 130 131 132 133	/*School Board /*School Board /*School Board /*School Board /*School Board /*School Board /*School District /*Police Jury Tax /*Police Jury Tax
Tax A*/ #define SCHOOL_BOARD_TAX_B Tax B*/ #define SCHOOL_BOARD_TAX_C Tax C*/ #define SCHOOL_BOARD_TAX_D Tax D*/ #define SCHOOL_BOARD_TAX_E Tax E*/ #define SCHOOL_BOARD_TAX_F Tax F*/ #define SCHOOL_BOARD_TAX_F Tax F*/ #define SCHOOL_DISTRICT_TAX Tax*/ #define POLICE_JURY_TAX_B B*/ #define POLICE_JURY_TAX_C C*/ #define POLICE_JURY_TAX_E E*/	127 128 129 130 131 132 133 134	/*School Board /*School Board /*School Board /*School Board /*School Board /*School Board /*School District /*Police Jury Tax /*Police Jury Tax
Tax A*/ #define SCHOOL_BOARD_TAX_B Tax B*/ #define SCHOOL_BOARD_TAX_C Tax C*/ #define SCHOOL_BOARD_TAX_D Tax D*/ #define SCHOOL_BOARD_TAX_E Tax E*/ #define SCHOOL_BOARD_TAX_F Tax F*/ #define SCHOOL_BOARD_TAX_F Tax F*/ #define SCHOOL_DISTRICT_TAX Tax*/ #define POLICE_JURY_TAX_B B*/ #define POLICE_JURY_TAX_C C*/ #define POLICE_JURY_TAX_E E*/ #define COMMUNICATIONS_SERVICE_TAX_WIRELESS Service Tax (Wireless)*/ #define SERVICE_PROVIDER_TAX Provider Tax*/	127 128 129 130 131 132 133 134 135 136 137	/*School Board /*School Board /*School Board /*School Board /*School Board /*School District /*Police Jury Tax /*Police Jury Tax /*Police Jury Tax
Tax A*/ #define SCHOOL_BOARD_TAX_B Tax B*/ #define SCHOOL_BOARD_TAX_C Tax C*/ #define SCHOOL_BOARD_TAX_D Tax D*/ #define SCHOOL_BOARD_TAX_E Tax E*/ #define SCHOOL_BOARD_TAX_F Tax F*/ #define SCHOOL_BOARD_TAX_F Tax F*/ #define SCHOOL_DISTRICT_TAX Tax*/ #define POLICE_JURY_TAX_B B*/ #define POLICE_JURY_TAX_C C*/ #define POLICE_JURY_TAX_E E*/ #define COMMUNICATIONS_SERVICE_TAX_WIRELESS Service Tax (Wireless)*/ #define SERVICE_PROVIDER_TAX Provider Tax*/ #define TELECOMMUNICATIONS_SALES_TAX /*Telecommunications Sales Tax*/	127 128 129 130 131 132 133 134 135 136 137	/*School Board /*School Board /*School Board /*School Board /*School Board /*School District /*Police Jury Tax /*Police Jury Tax /*Police Jury Tax /*Communications /*Service
Tax A*/ #define SCHOOL_BOARD_TAX_B Tax B*/ #define SCHOOL_BOARD_TAX_C Tax C*/ #define SCHOOL_BOARD_TAX_D Tax D*/ #define SCHOOL_BOARD_TAX_E Tax E*/ #define SCHOOL_BOARD_TAX_F Tax F*/ #define SCHOOL_BOARD_TAX_F Tax */ #define SCHOOL_DISTRICT_TAX Tax*/ #define POLICE_JURY_TAX_B B*/ #define POLICE_JURY_TAX_C C*/ #define POLICE_JURY_TAX_E E*/ #define COMMUNICATIONS_SERVICE_TAX_WIRELESS Service Tax (Wireless)*/ #define SERVICE_PROVIDER_TAX Provider Tax*/ #define TELECOMMUNICATIONS_SALES_TAX	127 128 129 130 131 132 133 134 135 136 137	/*School Board /*School Board /*School Board /*School Board /*School Board /*School District /*Police Jury Tax /*Police Jury Tax /*Police Jury Tax
Tax A*/ #define SCHOOL_BOARD_TAX_B Tax B*/ #define SCHOOL_BOARD_TAX_C Tax C*/ #define SCHOOL_BOARD_TAX_D Tax D*/ #define SCHOOL_BOARD_TAX_E Tax E*/ #define SCHOOL_BOARD_TAX_F Tax F*/ #define SCHOOL_BOARD_TAX_F Tax F*/ #define SCHOOL_DISTRICT_TAX Tax*/ #define POLICE_JURY_TAX_B B*/ #define POLICE_JURY_TAX_C C*/ #define POLICE_JURY_TAX_E E*/ #define COMMUNICATIONS_SERVICE_TAX_WIRELESS Service Tax (Wireless)*/ #define SERVICE_PROVIDER_TAX Provider Tax*/ #define TELECOMMUNICATIONS_SALES_TAX /*Telecommunications Sales Tax*/ #define ADVANCED_TRANSIT_TAX Transit Tax*/ #define ADVANCED_TRANSIT_WEB_HOSTING_TAX	127 128 129 130 131 132 133 134 135 136 137	/*School Board /*School Board /*School Board /*School Board /*School Board /*School District /*Police Jury Tax /*Police Jury Tax /*Police Jury Tax /*Communications /*Service
Tax A*/ #define SCHOOL_BOARD_TAX_B Tax B*/ #define SCHOOL_BOARD_TAX_C Tax C*/ #define SCHOOL_BOARD_TAX_D Tax D*/ #define SCHOOL_BOARD_TAX_E Tax E*/ #define SCHOOL_BOARD_TAX_F Tax F*/ #define SCHOOL_BOARD_TAX_F Tax */ #define SCHOOL_DISTRICT_TAX Tax*/ #define POLICE_JURY_TAX_B B*/ #define POLICE_JURY_TAX_C C*/ #define POLICE_JURY_TAX_E E*/ #define COMMUNICATIONS_SERVICE_TAX_WIRELESS Service Tax (Wireless)*/ #define SERVICE_PROVIDER_TAX Provider Tax*/ #define TELECOMMUNICATIONS_SALES_TAX /*Telecommunications Sales Tax*/ #define ADVANCED_TRANSIT_TAX Transit Tax*/ #define ADVANCED_TRANSIT_WEB_HOSTING_TAX Transit Web Hosting Tax*/ #define MISSOURI_UNIVERSAL_SERVICE_FUND	127 128 129 130 131 132 133 134 135 136 137 138 139	/*School Board /*School Board /*School Board /*School Board /*School Board /*School Board /*School District /*Police Jury Tax /*Police Jury Tax /*Police Jury Tax /*Communications /*Service
Tax A*/ #define SCHOOL_BOARD_TAX_B Tax B*/ #define SCHOOL_BOARD_TAX_C Tax C*/ #define SCHOOL_BOARD_TAX_D Tax D*/ #define SCHOOL_BOARD_TAX_E Tax E*/ #define SCHOOL_BOARD_TAX_F Tax F*/ #define SCHOOL_BOARD_TAX_F Tax */ #define SCHOOL_BOARD_TAX_F Tax*/ #define POLICE_JURY_TAX_B B*/ #define POLICE_JURY_TAX_C CC*/ #define POLICE_JURY_TAX_E E*/ #define COMMUNICATIONS_SERVICE_TAX_WIRELESS Service Tax (Wireless)*/ #define SERVICE_PROVIDER_TAX Provider Tax*/ #define TELECOMMUNICATIONS_SALES_TAX /*Telecommunications Sales Tax*/ #define ADVANCED_TRANSIT_WEB_HOSTING_TAX Transit Tax*/ #define ADVANCED_TRANSIT_WEB_HOSTING_TAX Transit Web Hosting Tax*/	127 128 129 130 131 132 133 134 135 136 137 138 139	/*School Board /*School Board /*School Board /*School Board /*School Board /*School District /*Police Jury Tax /*Police Jury Tax /*Police Jury Tax /*Communications /*Service /*Advanced
Tax A*/ #define SCHOOL_BOARD_TAX_B Tax B*/ #define SCHOOL_BOARD_TAX_C Tax C*/ #define SCHOOL_BOARD_TAX_D Tax D*/ #define SCHOOL_BOARD_TAX_E Tax E*/ #define SCHOOL_BOARD_TAX_F Tax F*/ #define SCHOOL_BOARD_TAX_F Tax */ #define SCHOOL_DISTRICT_TAX Tax*/ #define POLICE_JURY_TAX_B B*/ #define POLICE_JURY_TAX_C C*/ #define POLICE_JURY_TAX_E E*/ #define COMMUNICATIONS_SERVICE_TAX_WIRELESS Service Tax (Wireless)*/ #define SERVICE_PROVIDER_TAX Provider Tax*/ #define TELECOMMUNICATIONS_SALES_TAX /*Telecommunications Sales Tax*/ #define ADVANCED_TRANSIT_TAX Transit Tax*/ #define ADVANCED_TRANSIT_WEB_HOSTING_TAX Transit Tax*/ #define MISSOURI_UNIVERSAL_SERVICE_FUND Universal Service Fund*/	127 128 129 130 131 132 133 134 135 136 137 138 139 140 141	/*School Board /*School Board /*School Board /*School Board /*School Board /*School District /*Police Jury Tax /*Police Jury Tax /*Police Jury Tax /*Communications /*Service /*Advanced /*Advanced /*Missouri

#define TELECOMMUNICATIONS_EDUCATION_ACCESS_FUND_CENTREX	143	
/*Telecommunications Education Access Fund (Centrex)*/ #define BUSINESS_AND_OCCUPATION_TAX_OTHER	144	/*Business and
Occupation Tax (Other)*/ #define TRIBAL_SALES_TAX	145	/*Tribal Sales
Tax*/ #define SALES_TAX_DATA_PROCESSING	146	/*Sales Tax (Data
Processing)*/ #define TRANSIT_TAX_DATA_PROCESSING (Data Processing)*/	147	/*Transit Tax
#define CRIME_CONTROL_DISTRICT_TAX_DATA_PROCESSING District Tax (Data Processing)*/	148	/*Crime Control
<pre>#define LIBRARY_DISTRICT_TAX_DATA_PROCESSING District Tax (Data Processing) */</pre>	149	/*Library
<pre>#define HOSPITAL_DISTRICT_TAX_DATA_PROCESSING District Tax (Data Processing)*/</pre>	150	/*Hospital
<pre>#define HEALTH_SERVICES_DISTRICT_TAX_DATA_PROCESSING District Tax (Data Processing)*/</pre>	151	/*Health Services
<pre>#define EMERGENCY_SERVICES_DISTRICT_TAX_DATA_PROCESSING Services District Tax (Data Processing)*/</pre>	152	/*Emergency
<pre>#define IMPROVEMENT_DISTRICT_TAX_DATA_PROCESSING District Tax (Data Processing)*/</pre>	153	/*Improvement
<pre>#define DEVELOPMENT_DISTRICT_TAX_DATA_PROCESSING District Tax (Data Processing)*/</pre>	154	/*Development
<pre>#define ADVANCED_TRANSIT_TAX_DATA_PROCESSING Transit Tax (Data Processing)*/</pre>	155	/*Advanced
<pre>#define CA_PSPE_SURCHARGE Surcharge*/</pre>	156	/*CA PSPE
<pre>#define DISTRICT_TAX_DATA_PROCESSING (Data Processing)*/</pre>	157	/*District Tax
<pre>#define TAX_TYPE_RESERVED_158</pre>	158	/*Eschelon UUT*/
#define CABLE_FRANCHISE_FEE	159	/*Cable Franchise
Fee*/ #define STATUTORY_GROSS_RECEIPTS_BUSINESS Receipts (Business)*/	160	/*Statutory Gross
#define E911_VOIP	161	/*E911 (VoIP)*/
#define FUSF_VOIP	162	/*FUSF (VoIP)*/
#define FUSF	163	/*FUSF*/
<pre>#define COST_RECOVERY_SURCHARGE Surcharge*/</pre>	164	/*Cost Recovery
#define UNIVERSAL_SERVICE_FUND_VOIP Service Fund (VoIP)*/	165	/*Universal
<pre>#define COMMUNICATIONS_SERVICE_TAX_CABLE Service Tax (Cable)*/</pre>	166	/*Communications
<pre>#define MUNICIPAL_RIGHT_OF_WAY_CABLE of Way (Cable)*/</pre>	167	/*Municipal Right
#define TAX_TYPE_RESERVED_168	168	/*Reserved*/
#define FCC_REGULATORY_FEE_WIRELINE	169	/*FCC Regulatory
<pre>Fee (Wireline)*/ #define FCC_REGULATORY_FEE_WIRELESS Fee (Wireless)*/</pre>	170	/*FCC Regulatory
#define TAX_TYPE_RESERVED_171	171	/*Reserved*/
#define STATUTORY_GROSS_RECEIPTS_VIDEO	172	/*Statutory Gross
Receipts (Video)*/ #define UTILITY_USERS_TAX_LIFELINE	173	/*Utility Users
Tax - Lifeline*/ #define TRS_LONG_DISTANCE	174	/*TRS - Long
Distance*/ #define TELECOM_RELAY_SURCHARGE_WIRELESS	175	/*Telecom Relay
Surcharge (Wireless)*/ #define SALES_TAX_SENIOR_CITIZEN Senior Citizen*/	176	/*Sales Tax -
#define REGULATORY_COST_CHARGE_LOCAL Charge - Local*/	177	/*Regulatory Cost
#define REGULATORY_COST_CHARGE_INTRASTATE Charge - Intrastate*/	178	/*Regulatory Cost
#define REGULATORY_COST_CHARGE_CABLE Charge - Cable*/	179	/*Regulatory Cost
#define PUC_FEE_CABLE Cable*/	180	/*P.U.C. Fee -

<pre>#define PROVINCIAL_SALES_TAX_TOLL Sales Tax (TOLL)*/</pre>	181	/*Provincial
#define UUT	182	/*UUT*/
#define TAX_TYPE_RESERVED_183	183	/*Reserved*/
#define SALES_TAX_MANUFACTURING	184	/*Sales Tax-
Manufacturing*/ #define USE TAX MANUFACTURING	185	/*Use Tax-
Manufacturing*/ #define SALES_TAX_MOTOR_VEHICLES	186	/*Sales Tax-Motor
Vehicles*/		/*Use Tax-Motor
#define USE_TAX_MOTOR_VEHICLES Vehicles*/	187	,
<pre>#define RENTAL_TAX #define RENTAL_TAX_LINEN Linen*/</pre>	188 189	/*Rental Tax*/ /*Rental Tax-
<pre>#define SALES_TAX_VENDING Vending*/</pre>	190	/*Sales Tax-
<pre>#define RENTAL_TAX_MOTOR_VEHICLES Motor Vehicles*/</pre>	191	/*Rental Tax-
#define SALES_TAX_WHOLESALE Wholesale*/	192	/*Sales Tax-
#define SALES_TAX_FOOD_AND_DRUGS and Drugs*/	193	/*Sales Tax-Food
#define SALES_TAX_FOOD	194	/*Sales Tax-
Food*/	105	/ * D = = = * /
#define FUR_TAX #define PRIVILEGE_TAX_MANUFACTURING	195 196	/*Fur Tax*/ /*Privilege Tax-
Manufacturing*/ #define LEAD_ACID_BATTERY_FEE	197	/*Lead Acid
Battery Fee*/ #define SALES_TAX_MOTOR_FUEL	198	/*Sales Tax-Motor
<pre>Fuel*/ #define LEAD_ACID_BATTERY_FEE_LARGER_BATTERY</pre>	199	/*Lead Acid
Battery Fee-Larger Battery*/ #define SALES_TAX_PARKING	200	/*Sales Tax-
Parking*/ #define PRIVILEGE_TAX_RECREATION	201	/*Privilege Tax-
Recreation*/ #define DRY_CLEANING_FEE	202	/*Dry Cleaning
Fee*/ #define WHITE_GOODS_TAX	203	/*White Goods
Tax*/ #define SALES_TAX_MEDICAL_EQUIPMENT	204	/*Sales Tax-
Medical Equipment*/		
<pre>#define ELECTRONIC_WASTE_RECYCLING_FEE_SMALL Waste Recycling Fee-Small*/</pre>	205	/*Electronic
<pre>#define ELECTRONIC_WASTE_RECYCLING_FEE_MEDIUM Waste Recycling Fee-Medium*/</pre>	206	/*Electronic
<pre>#define ELECTRONIC_WASTE_RECYCLING_FEE_LARGE Waste Recycling Fee-Large*/</pre>	207	/*Electronic
<pre>#define ALCOHOLIC_BEVERAGE_TAX Beverage Tax*/</pre>	208	/*Alcoholic
<pre>#define SALES_TAX_ALCOHOL Alcohol*/</pre>	209	/*Sales Tax-
<pre>#define LIQUOR_DRINK_TAX Tax*/</pre>	210	/*Liquor Drink
<pre>#define IN_UNIVERSAL_SERVICE_CHARGE Service Charge*/</pre>	211	/*IN Universal
	212	/*TRS (Paging)*/
#define TRS_PAGING #define CONNECTME_FUND	213	/*IRS (Paging)*/ /*ConnectME
Fund*/ #define PA_PURTA_SURCHARGE	214	/*PA PURTA
Surcharge*/ #define CONNECTME_FUND_VOIP	215	/*ConnectME Fund
(VoIP)*/ #define CONNECTME_FUND_CABLE	216	/*ConnectME Fund
(Cable)*/ #define TRS_VOIP	217	/*TRS (VoIP)*/
#define CONSUMER_COUNSEL_FEE	217	/*Consumer
Counsel Fee*/	210	, consumer

#define SAN_DIEGO_UNDERGROUND_CONVERSION_SURCHARGE	219	/*San Diego
Underground Conversion Surcharge*/ #define RSPF_SURCHARGE	220	/*RSPF
Surcharge*/ #define NETWORK_ACCESS_FEE	221	/*Network Access
Fee*/ #define FRANCHISE_FEE	222	/*Franchise Fee*/
#define CASF	223	/*CASF*/
<pre>#define LICENSE_TAX_CABLE (Cable)*/</pre>	224	/*License Tax
<pre>#define RELAY_MISSOURI_SURCHARGE Surcharge*/</pre>	225	/*Relay Missouri
<pre>#define FCC_REGULATORY_FEE_VOIP Fee (VoIP)*/</pre>	226	/*FCC Regulatory
#define TAX_TYPE_RESERVED_227	227	/*Reserved*/
#define MUNICIPAL_RIGHT_OF_WAY_EXTENSION	228	/*Municipal Right
of Way (Extension)*/ #define CARRIER_COST_RECOVERY_VOIP	229	/*Carrier Cost
Recovery (VoIP)*/		,
#define SALES_TAX_VIDEO	230	/*Sales Tax-
Video*/ #define NORTH_CAROLINA_TELECOMMUNICATIONS_SALES_TAX	231	/*North Carolina
Telecommunications Sales Tax*/		
#define TELECOMMUNICATIONS_RELAY_SURCHARGE_CELLULAR	232	
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Wireless*/	233	/ H JII TTCPATA
#define TELECOMMUNICATIONS_RELAY_SURCHARGE_PAGING	234	
/*Telecommunications Relay Surcharge (Paging)*/ #define TELECOMMUNICATIONS_RELAY_SURCHARGE_VOIP	235	
/*Telecommunications Relay Surcharge (VoIP)*/	235	
#define TDAP	236	/*TDAP*/
#define TAP_SURCHARGE	237	/*TAP Surcharge*/
<pre>#define COMMUNICATIONS_SERVICE_TAX_NON_FACILITIES Service Tax (Non-Facilities)*/</pre>	238	/*Communications
#define E911_VOIP_ALTERNATE	239	/*E-911 (VoIP)
Alternate*/		
<pre>#define E911_VOIP_PBX PBX)*/</pre>	240	/*E-911 (VoIP
<pre>#define UTILITY_USERS_TAX_VOIP Tax (VoIP)*/</pre>	241	/*Utility Users
<pre>#define UTILITY_USERS_TAX_VOIP_BUSINESS Tax (VoIP-Business)*/</pre>	242	/*Utility Users
#define SOLID_WASTE_COLLECTION_TAX Collection Tax*/	243	/*Solid Waste
#define E911_VOIP_BUSINESS	244	/*E-911 (VoIP
Business)*/ #define E911_VOIP_NOMADIC	245	/*E-911 (VoIP-
Nomadic)*/ #define E911_PREPAID_WIRELESS_ALTERNATE	246	/*E-911 Prepaid
Wireless (Alternate)*/		
<pre>#define POLICE_AND_FIRE_PROTECTION_FEE Protection Fee*/</pre>	247	/*Police and Fire
#define SAN_FRANCISCO_ACCESS_LINE_TAX	248	/*San Francisco
Access Line Tax*/ #define SAN_FRANCISCO_ACCESS_LINE_TAX_PBX_TRUNK_LINE	249	/*San Francisco
Access Line Tax (PBX/Trunk Line)*/ #define SAN_FRANCISCO_ACCESS_LINE_TAX_VOIP	250	/*San Francisco
Access line Tax (VoIP)*/ #define SAN_FRANCISCO_ACCESS_LINE_TAX_WIRELESS	251	/*San Francisco
Access Line Tax (Wireless)*/	231	/ Sall Flancisco
<pre>#define SAN_FRANCISCO_ACCESS_LINE_TAX_HIGH_CAP_TRUNK Access Line Tax (High Cap Trunk)*/</pre>	252	/*San Francisco
<pre>#define CITY_OF_SAN_JOSE_TELEPHONE_LINE_TAX Jose Telephone Line Tax*/</pre>	253	/*City of San
#define CITY_OF_SAN_JOSE_TELEPHONE_LINE_TAX_PBX_TRUNK_LINE	254	/*City of San
Jose Telephone Line Tax-PBX/Trunk Line*/ #define CITY_OF_SAN_JOSE_TELEPHONE_LINE_TAX_VOIP	255	/*City of San
Jose Telephone Line Tax (VoIP)*/ #define CITY_OF_SAN_JOSE_TELEPHONE_LINE_TAX_WIRELESS	256	/*CIty of San
Jose Telephone Line Tax (Wireless)*/		

#define SAN_LEANDRO_EMERG_COM_SYS_ACCESS_TAX	257	/*San Leandro
Emerg Com Sys Access Tax*/		
#define SAN_LEANDRO_EMERG_COM_SYS_ACCESS_TAX_PBX_TRUNK	258	/*San Leandro
Emerg Com Sys Access Tax (PBX Trunk)*/		
#define SAN_LEANDRO_EMERG_COM_SYS_ACCESS_TAX_VOIP	259	/*San Leandro
Emerg Com Sys Access Tax (VoIP)*/	207	, ball Eddial's
	360	/*San Leandro
#define SAN_LEANDRO_EMERG_COM_SYS_ACCESS_TAX_WIRELESS	260	/*San Leandro
Emerg Com Sys Access Tax (Wireless)*/		
#define SAN_LEANDRO_EMERG_COM_SYS_ACCESS_TAX_HIGH_CAP_TRNK	261	/*San Leandro
Emerg Com Sys Access Tax-High Cap Trnk*/		
#define POLICE_AND_FIRE_PROTECTION_FEE_PREPAID	262	/*Police and Fire
Protection Fee (Prepaid)*/	202	, rorros ana riro
	0.63	/#B 13' G 5 :
#define PUBLIC_SAFETY_COMMUNICATIONS_SURCHARGE	263	/*Public Safety
Communications Surcharge*/		
#define E911_TECHNICAL_CHARGE	264	/*E-911 Technical
Charge*/		
#define TELECOM_ASSISTANCE_SVC_FUND_HIGH_CAPACITY_TRUNK	265	/*Telecom
Assistance Svc Fund-High Capacity Trunk*/		,
	266	/+ CDE 1+ /
#define CRT_LEVY		/*CRT Levy*/
#define ACCESS_LINE_TAX	267	/*Access Line
Tax*/		
#define ACCESS_LINE_TAX_PBX_TRUNK_LINE	268	/*Access Line Tax
(PBX/Trunk Line)*/		
#define ACCESS LINE TAX VOIP	269	/*Access Line Tax
··	209	/ Access Line Tax
(VoIP)*/		
#define ACCESS_LINE_TAX_WIRELESS	270	/*Access Line Tax
(Wireless)*/		
#define WI_USF	271	/*WI USF*/
#define NETWORK_ACCESS_FEE_INTERSTATE	272	/*Network Access
Fee-Interstate*/	2.2	, 110000111 1100011
	273	/+C-log Mass
#define SALES_TAX_OTHER	2/3	/*Sales Tax -
Other*/		
#define FCC_REGULATORY_FEE_VOIP_ALTERNATE	274	/*FCC Regulatory
fee (VoIP Alternate)*/		
#define EXCISE_TAX_WIRELESS	275	/*Excise Tax
		,
(Wireless)*/		
(Wireless)*/	276	/*Dogovered 276*/
#define RESERVED_276	276	/*Reserved_276*/
<pre>#define RESERVED_276 #define FEDERAL_UNIVERSAL_SERVICE_FUND_NON_BILLABLE</pre>	276 277	/*Reserved_276*/ /*Federal
#define RESERVED_276		_
<pre>#define RESERVED_276 #define FEDERAL_UNIVERSAL_SERVICE_FUND_NON_BILLABLE</pre>		_
<pre>#define RESERVED_276 #define FEDERAL_UNIVERSAL_SERVICE_FUND_NON_BILLABLE Universal Service Fund (Non-Billable)*/ #define MUNICIPAL_RIGHT_OF_WAY_HIGH_CAPACITY_TRUNK</pre>	277	/*Federal
<pre>#define RESERVED_276 #define FEDERAL_UNIVERSAL_SERVICE_FUND_NON_BILLABLE Universal Service Fund (Non-Billable)*/ #define MUNICIPAL_RIGHT_OF_WAY_HIGH_CAPACITY_TRUNK of Way-High Capacity Trunk*/</pre>	277 278	/*Federal /*Municipal Right
<pre>#define RESERVED_276 #define FEDERAL_UNIVERSAL_SERVICE_FUND_NON_BILLABLE Universal Service Fund (Non-Billable)*/ #define MUNICIPAL_RIGHT_OF_WAY_HIGH_CAPACITY_TRUNK of Way-High Capacity Trunk*/ #define EDUCATION_CESS</pre>	277	/*Federal
<pre>#define RESERVED_276 #define FEDERAL_UNIVERSAL_SERVICE_FUND_NON_BILLABLE Universal Service Fund (Non-Billable)*/ #define MUNICIPAL_RIGHT_OF_WAY_HIGH_CAPACITY_TRUNK of Way-High Capacity Trunk*/ #define EDUCATION_CESS Cess*/</pre>	277278279	/*Federal /*Municipal Right /*Education
<pre>#define RESERVED_276 #define FEDERAL_UNIVERSAL_SERVICE_FUND_NON_BILLABLE Universal Service Fund (Non-Billable)*/ #define MUNICIPAL_RIGHT_OF_WAY_HIGH_CAPACITY_TRUNK of Way-High Capacity Trunk*/ #define EDUCATION_CESS Cess*/ #define SECONDARY_AND_HIGHER_EDUCATION_CESS</pre>	277 278	/*Federal /*Municipal Right
<pre>#define RESERVED_276 #define FEDERAL_UNIVERSAL_SERVICE_FUND_NON_BILLABLE Universal Service Fund (Non-Billable)*/ #define MUNICIPAL_RIGHT_OF_WAY_HIGH_CAPACITY_TRUNK of Way-High Capacity Trunk*/ #define EDUCATION_CESS Cess*/</pre>	277278279	/*Federal /*Municipal Right /*Education
<pre>#define RESERVED_276 #define FEDERAL_UNIVERSAL_SERVICE_FUND_NON_BILLABLE Universal Service Fund (Non-Billable)*/ #define MUNICIPAL_RIGHT_OF_WAY_HIGH_CAPACITY_TRUNK of Way-High Capacity Trunk*/ #define EDUCATION_CESS Cess*/ #define SECONDARY_AND_HIGHER_EDUCATION_CESS</pre>	277278279	/*Federal /*Municipal Right /*Education
<pre>#define RESERVED_276 #define FEDERAL_UNIVERSAL_SERVICE_FUND_NON_BILLABLE Universal Service Fund (Non-Billable)*/ #define MUNICIPAL_RIGHT_OF_WAY_HIGH_CAPACITY_TRUNK of Way-High Capacity Trunk*/ #define EDUCATION_CESS Cess*/ #define SECONDARY_AND_HIGHER_EDUCATION_CESS Higher Education Cess*/ #define UTILITY_USERS_TAX_VIDEO</pre>	277278279280	<pre>/*Federal /*Municipal Right /*Education /*Secondary and</pre>
<pre>#define RESERVED_276 #define FEDERAL_UNIVERSAL_SERVICE_FUND_NON_BILLABLE Universal Service Fund (Non-Billable)*/ #define MUNICIPAL_RIGHT_OF_WAY_HIGH_CAPACITY_TRUNK of Way-High Capacity Trunk*/ #define EDUCATION_CESS Cess*/ #define SECONDARY_AND_HIGHER_EDUCATION_CESS Higher Education Cess*/ #define UTILITY_USERS_TAX_VIDEO Tax (Video)*/</pre>	277278279280281	<pre>/*Federal /*Municipal Right /*Education /*Secondary and /*Utility Users</pre>
<pre>#define RESERVED_276 #define FEDERAL_UNIVERSAL_SERVICE_FUND_NON_BILLABLE Universal Service Fund (Non-Billable)*/ #define MUNICIPAL_RIGHT_OF_WAY_HIGH_CAPACITY_TRUNK of Way-High Capacity Trunk*/ #define EDUCATION_CESS Cess*/ #define SECONDARY_AND_HIGHER_EDUCATION_CESS Higher Education Cess*/ #define UTILITY_USERS_TAX_VIDEO Tax (Video)*/ #define STATE_USF_VOIP_ALTERNATE</pre>	277278279280	<pre>/*Federal /*Municipal Right /*Education /*Secondary and</pre>
<pre>#define RESERVED_276 #define FEDERAL_UNIVERSAL_SERVICE_FUND_NON_BILLABLE Universal Service Fund (Non-Billable)*/ #define MUNICIPAL_RIGHT_OF_WAY_HIGH_CAPACITY_TRUNK of Way-High Capacity Trunk*/ #define EDUCATION_CESS Cess*/ #define SECONDARY_AND_HIGHER_EDUCATION_CESS Higher Education Cess*/ #define UTILITY_USERS_TAX_VIDEO Tax (Video)*/ #define STATE_USF_VOIP_ALTERNATE Alternate)*/</pre>	277 278 279 280 281 282	<pre>/*Federal /*Municipal Right /*Education /*Secondary and /*Utility Users /*State USF (VoIP</pre>
<pre>#define RESERVED_276 #define FEDERAL_UNIVERSAL_SERVICE_FUND_NON_BILLABLE Universal Service Fund (Non-Billable)*/ #define MUNICIPAL_RIGHT_OF_WAY_HIGH_CAPACITY_TRUNK of Way-High Capacity Trunk*/ #define EDUCATION_CESS Cess*/ #define SECONDARY_AND_HIGHER_EDUCATION_CESS Higher Education Cess*/ #define UTILITY_USERS_TAX_VIDEO Tax (Video)*/ #define STATE_USF_VOIP_ALTERNATE Alternate)*/ #define TRS_VOIP_BUSINESS</pre>	277278279280281	<pre>/*Federal /*Municipal Right /*Education /*Secondary and /*Utility Users</pre>
<pre>#define RESERVED_276 #define FEDERAL_UNIVERSAL_SERVICE_FUND_NON_BILLABLE Universal Service Fund (Non-Billable)*/ #define MUNICIPAL_RIGHT_OF_WAY_HIGH_CAPACITY_TRUNK of Way-High Capacity Trunk*/ #define EDUCATION_CESS Cess*/ #define SECONDARY_AND_HIGHER_EDUCATION_CESS Higher Education Cess*/ #define UTILITY_USERS_TAX_VIDEO Tax (Video)*/ #define STATE_USF_VOIP_ALTERNATE Alternate)*/</pre>	277 278 279 280 281 282	<pre>/*Federal /*Municipal Right /*Education /*Secondary and /*Utility Users /*State USF (VoIP</pre>
<pre>#define RESERVED_276 #define FEDERAL_UNIVERSAL_SERVICE_FUND_NON_BILLABLE Universal Service Fund (Non-Billable)*/ #define MUNICIPAL_RIGHT_OF_WAY_HIGH_CAPACITY_TRUNK of Way-High Capacity Trunk*/ #define EDUCATION_CESS Cess*/ #define SECONDARY_AND_HIGHER_EDUCATION_CESS Higher Education Cess*/ #define UTILITY_USERS_TAX_VIDEO Tax (Video)*/ #define STATE_USF_VOIP_ALTERNATE Alternate)*/ #define TRS_VOIP_BUSINESS</pre>	277 278 279 280 281 282	<pre>/*Federal /*Municipal Right /*Education /*Secondary and /*Utility Users /*State USF (VoIP</pre>
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<pre>#define RESERVED_276 #define FEDERAL_UNIVERSAL_SERVICE_FUND_NON_BILLABLE Universal Service Fund (Non-Billable)*/ #define MUNICIPAL_RIGHT_OF_WAY_HIGH_CAPACITY_TRUNK of Way-High Capacity Trunk*/ #define EDUCATION_CESS Cess*/ #define SECONDARY_AND_HIGHER_EDUCATION_CESS Higher Education Cess*/ #define UTILITY_USERS_TAX_VIDEO Tax (Video)*/ #define STATE_USF_VOIP_ALTERNATE Alternate)*/ #define TRS_VOIP_BUSINESS Business)*/ #define TRS_TRUNK #define DEAF_AND_DISABLED_FUND_WIRELESS</pre>	277 278 279 280 281 282 283	<pre>/*Federal /*Municipal Right /*Education /*Secondary and /*Utility Users /*State USF (VoIP /*TRS (VoIP)</pre>
<pre>#define RESERVED_276 #define FEDERAL_UNIVERSAL_SERVICE_FUND_NON_BILLABLE Universal Service Fund (Non-Billable)*/ #define MUNICIPAL_RIGHT_OF_WAY_HIGH_CAPACITY_TRUNK of Way-High Capacity Trunk*/ #define EDUCATION_CESS Cess*/ #define SECONDARY_AND_HIGHER_EDUCATION_CESS Higher Education Cess*/ #define UTILITY_USERS_TAX_VIDEO Tax (Video)*/ #define STATE_USF_VOIP_ALTERNATE Alternate)*/ #define TRS_VOIP_BUSINESS Business)*/ #define TRS_TRUNK #define DEAF_AND_DISABLED_FUND_WIRELESS Disabled Fund (Wireless)*/</pre>	277 278 279 280 281 282 283 284 285	<pre>/*Federal /*Municipal Right /*Education /*Secondary and /*Utility Users /*State USF (VoIP /*TRS (VoIP /*TRS (Trunk)*/ /*Deaf and</pre>
<pre>#define RESERVED_276 #define FEDERAL_UNIVERSAL_SERVICE_FUND_NON_BILLABLE Universal Service Fund (Non-Billable)*/ #define MUNICIPAL_RIGHT_OF_WAY_HIGH_CAPACITY_TRUNK of Way-High Capacity Trunk*/ #define EDUCATION_CESS Cess*/ #define SECONDARY_AND_HIGHER_EDUCATION_CESS Higher Education Cess*/ #define UTILITY_USERS_TAX_VIDEO Tax (Video)*/ #define STATE_USF_VOIP_ALTERNATE Alternate)*/ #define TRS_VOIP_BUSINESS Business)*/ #define TRS_TRUNK #define DEAF_AND_DISABLED_FUND_WIRELESS Disabled Fund (Wireless)*/ #define UTILITY_USERS_TAX_WIRELESSBUSINESS</pre>	277 278 279 280 281 282 283 284	<pre>/*Federal /*Municipal Right /*Education /*Secondary and /*Utility Users /*State USF (VoIP /*TRS (VoIP /*TRS (Trunk)*/</pre>
<pre>#define RESERVED_276 #define FEDERAL_UNIVERSAL_SERVICE_FUND_NON_BILLABLE Universal Service Fund (Non-Billable)*/ #define MUNICIPAL_RIGHT_OF_WAY_HIGH_CAPACITY_TRUNK of Way-High Capacity Trunk*/ #define EDUCATION_CESS Cess*/ #define SECONDARY_AND_HIGHER_EDUCATION_CESS Higher Education Cess*/ #define UTILITY_USERS_TAX_VIDEO Tax (Video)*/ #define STATE_USF_VOIP_ALTERNATE Alternate)*/ #define TRS_VOIP_BUSINESS Business)*/ #define DEAF_AND_DISABLED_FUND_WIRELESS Disabled Fund (Wireless)*/ #define UTILITY_USERS_TAX_WIRELESSBUSINESS Tax-Wireless(Business)*/</pre>	277 278 279 280 281 282 283 284 285 286	<pre>/*Federal /*Municipal Right /*Education /*Secondary and /*Utility Users /*State USF (VoIP /*TRS (VoIP /*TRS (Trunk)*/ /*Deaf and</pre>
<pre>#define RESERVED_276 #define FEDERAL_UNIVERSAL_SERVICE_FUND_NON_BILLABLE Universal Service Fund (Non-Billable)*/ #define MUNICIPAL_RIGHT_OF_WAY_HIGH_CAPACITY_TRUNK of Way-High Capacity Trunk*/ #define EDUCATION_CESS Cess*/ #define SECONDARY_AND_HIGHER_EDUCATION_CESS Higher Education Cess*/ #define UTILITY_USERS_TAX_VIDEO Tax (Video)*/ #define STATE_USF_VOIP_ALTERNATE Alternate)*/ #define TRS_VOIP_BUSINESS Business)*/ #define DEAF_AND_DISABLED_FUND_WIRELESS Disabled Fund (Wireless)*/ #define UTILITY_USERS_TAX_WIRELESSBUSINESS Tax_Wireless(Business)*/ #define TELECOMMUNICATIONS_SALES_TAX_PREPAID</pre>	277 278 279 280 281 282 283 284 285	<pre>/*Federal /*Municipal Right /*Education /*Secondary and /*Utility Users /*State USF (VoIP /*TRS (VoIP /*TRS (Trunk)*/ /*Deaf and</pre>
<pre>#define RESERVED_276 #define FEDERAL_UNIVERSAL_SERVICE_FUND_NON_BILLABLE Universal Service Fund (Non-Billable)*/ #define MUNICIPAL_RIGHT_OF_WAY_HIGH_CAPACITY_TRUNK of Way-High Capacity Trunk*/ #define EDUCATION_CESS Cess*/ #define SECONDARY_AND_HIGHER_EDUCATION_CESS Higher Education Cess*/ #define UTILITY_USERS_TAX_VIDEO Tax (Video)*/ #define STATE_USF_VOIP_ALTERNATE Alternate)*/ #define TRS_VOIP_BUSINESS Business)*/ #define DEAF_AND_DISABLED_FUND_WIRELESS Disabled Fund (Wireless)*/ #define UTILITY_USERS_TAX_WIRELESSBUSINESS Tax-Wireless(Business)*/</pre>	277 278 279 280 281 282 283 284 285 286	<pre>/*Federal /*Municipal Right /*Education /*Secondary and /*Utility Users /*State USF (VoIP /*TRS (VoIP /*TRS (Trunk)*/ /*Deaf and</pre>
<pre>#define RESERVED_276 #define FEDERAL_UNIVERSAL_SERVICE_FUND_NON_BILLABLE Universal Service Fund (Non-Billable)*/ #define MUNICIPAL_RIGHT_OF_WAY_HIGH_CAPACITY_TRUNK of Way-High Capacity Trunk*/ #define EDUCATION_CESS Cess*/ #define SECONDARY_AND_HIGHER_EDUCATION_CESS Higher Education Cess*/ #define UTILITY_USERS_TAX_VIDEO Tax (Video)*/ #define STATE_USF_VOIP_ALTERNATE Alternate)*/ #define TRS_VOIP_BUSINESS Business)*/ #define DEAF_AND_DISABLED_FUND_WIRELESS Disabled Fund (Wireless)*/ #define UTILITY_USERS_TAX_WIRELESSBUSINESS Tax_Wireless(Business)*/ #define TELECOMMUNICATIONS_SALES_TAX_PREPAID</pre>	277 278 279 280 281 282 283 284 285 286	/*Federal /*Municipal Right /*Education /*Secondary and /*Utility Users /*State USF (VoIP /*TRS (VoIP /*TRS (Trunk)*/ /*Deaf and /*Utility Users
<pre>#define RESERVED_276 #define FEDERAL_UNIVERSAL_SERVICE_FUND_NON_BILLABLE Universal Service Fund (Non-Billable)*/ #define MUNICIPAL_RIGHT_OF_WAY_HIGH_CAPACITY_TRUNK of Way-High Capacity Trunk*/ #define EDUCATION_CESS Cess*/ #define SECONDARY_AND_HIGHER_EDUCATION_CESS Higher Education Cess*/ #define UTILITY_USERS_TAX_VIDEO Tax (Video)*/ #define STATE_USF_VOIP_ALTERNATE Alternate)*/ #define TRS_VOIP_BUSINESS Business)*/ #define DEAF_AND_DISABLED_FUND_WIRELESS Disabled Fund (Wireless)*/ #define UTILITY_USERS_TAX_WIRELESSBUSINESS Tax-Wireless(Business)*/ #define TELECOMMUNICATIONS_SALES_TAX_PREPAID /*Telecommunications Sales Tax-Prepaid*/ #define CA_HIGH_COST_FUND_A_VOIP_ACTUAL</pre>	277 278 279 280 281 282 283 284 285 286	<pre>/*Federal /*Municipal Right /*Education /*Secondary and /*Utility Users /*State USF (VoIP /*TRS (VoIP /*TRS (Trunk)*/ /*Deaf and</pre>
<pre>#define RESERVED_276 #define FEDERAL_UNIVERSAL_SERVICE_FUND_NON_BILLABLE Universal Service Fund (Non-Billable)*/ #define MUNICIPAL_RIGHT_OF_WAY_HIGH_CAPACITY_TRUNK of Way-High Capacity Trunk*/ #define EDUCATION_CESS Cess*/ #define SECONDARY_AND_HIGHER_EDUCATION_CESS Higher Education Cess*/ #define UTILITY_USERS_TAX_VIDEO Tax (Video)*/ #define STATE_USF_VOIP_ALTERNATE Alternate)*/ #define TRS_VOIP_BUSINESS Business)*/ #define TRS_TRUNK #define DEAF_AND_DISABLED_FUND_WIRELESS Disabled Fund (Wireless)*/ #define UTILITY_USERS_TAX_WIRELESSBUSINESS Tax-Wireless(Business)*/ #define TELECOMMUNICATIONS_SALES_TAX_PREPAID /*Telecommunications Sales Tax-Prepaid*/ #define CA_HIGH_COST_FUND_A_VOIP_ACTUAL Fund A (VOIP Actual)*/</pre>	277 278 279 280 281 282 283 284 285 286 287	/*Federal /*Municipal Right /*Education /*Secondary and /*Utility Users /*State USF (VoIP /*TRS (VoIP /*TRS (Trunk)*/ /*Deaf and /*Utility Users /*CA High Cost
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<pre>#define RESERVED_276 #define FEDERAL_UNIVERSAL_SERVICE_FUND_NON_BILLABLE Universal Service Fund (Non-Billable)*/ #define MUNICIPAL_RIGHT_OF_WAY_HIGH_CAPACITY_TRUNK of Way-High Capacity Trunk*/ #define EDUCATION_CESS Cess*/ #define SECONDARY_AND_HIGHER_EDUCATION_CESS Higher Education Cess*/ #define UTILITY_USERS_TAX_VIDEO Tax (Video)*/ #define STATE_USF_VOIP_ALTERNATE Alternate)*/ #define TRS_VOIP_BUSINESS Business)*/ #define TRS_TRUNK #define DEAF_AND_DISABLED_FUND_WIRELESS Disabled Fund (Wireless)*/ #define UTILITY_USERS_TAX_WIRELESSBUSINESS Tax_Wireless(Business)*/ #define TELECOMMUNICATIONS_SALES_TAX_PREPAID /*Telecommunications Sales Tax-Prepaid*/ #define Ca_HIGH_COST_FUND_A_VOIP_ACTUAL Fund A (VOIP Actual)*/ #define STATE_HIGH_COST_FUND_VOIP_ACTUAL Fund (VOIP Actual)*/ #define UNIVERSAL_LIFELINE_TELEPHONE_SVC_CHG_VOIP_ACTUAL Lifeline Telephone Svc Chg (VOIP Actual)*/ #define TELECOMMUNICATIONS_RELAY_SVC_CHARGE_VOIP_ACTUAL</pre>	277 278 279 280 281 282 283 284 285 286 287 288 289	/*Federal /*Municipal Right /*Education /*Secondary and /*Utility Users /*State USF (VoIP /*TRS (VoIP /*TRS (Trunk)*/ /*Deaf and /*Utility Users /*CA High Cost /*State High Cost
<pre>#define RESERVED_276 #define FEDERAL_UNIVERSAL_SERVICE_FUND_NON_BILLABLE Universal Service Fund (Non-Billable)*/ #define MUNICIPAL_RIGHT_OF_WAY_HIGH_CAPACITY_TRUNK of Way-High Capacity Trunk*/ #define EDUCATION_CESS Cess*/ #define SECONDARY_AND_HIGHER_EDUCATION_CESS Higher Education Cess*/ #define UTILITY_USERS_TAX_VIDEO Tax (Video)*/ #define STATE_USF_VOIP_ALTERNATE Alternate)*/ #define TRS_VOIP_BUSINESS Business)*/ #define TRS_TRUNK #define DEAF_AND_DISABLED_FUND_WIRELESS Disabled Fund (Wireless)*/ #define UTILITY_USERS_TAX_WIRELESSBUSINESS Tax-Wireless(Business)*/ #define TELECOMMUNICATIONS_SALES_TAX_PREPAID /*Telecommunications Sales Tax-Prepaid*/ #define Ca_HIGH_COST_FUND_A_VOIP_ACTUAL Fund A (VOIP Actual)*/ #define STATE_HIGH_COST_FUND_VOIP_ACTUAL Fund (VOIP Actual)*/ #define UNIVERSAL_LIFELINE_TELEPHONE_SVC_CHG_VOIP_ACTUAL Lifeline TELECOMMUNICATIONS_RELAY_SVC_CHARGE_VOIP_ACTUAL /*Telecommunications Relay Svc Charge (VOIP Actual)*/</pre>	277 278 279 280 281 282 283 284 285 286 287 288 289 290	/*Federal /*Municipal Right /*Education /*Secondary and /*Utility Users /*State USF (VoIP /*TRS (VoIP /*TRS (Trunk)*/ /*Deaf and /*Utility Users /*CA High Cost /*State High Cost /*Universal
<pre>#define RESERVED_276 #define FEDERAL_UNIVERSAL_SERVICE_FUND_NON_BILLABLE Universal Service Fund (Non-Billable)*/ #define MUNICIPAL_RIGHT_OF_WAY_HIGH_CAPACITY_TRUNK of Way-High Capacity Trunk*/ #define EDUCATION_CESS Cess*/ #define SECONDARY_AND_HIGHER_EDUCATION_CESS Higher Education Cess*/ #define UTILITY_USERS_TAX_VIDEO Tax (Video)*/ #define STATE_USF_VOIP_ALTERNATE Alternate)*/ #define TRS_VOIP_BUSINESS Business)*/ #define DEAF_AND_DISABLED_FUND_WIRELESS Disabled Fund (Wireless)*/ #define UTILITY_USERS_TAX_WIRELESSBUSINESS Tax-Wireless(Business)*/ #define TELECOMMUNICATIONS_SALES_TAX_PREPAID /*Telecommunications Sales Tax-Prepaid*/ #define CA_HIGH_COST_FUND_A_VOIP_ACTUAL Fund A (VoIP Actual)*/ #define STATE_HIGH_COST_FUND_VOIP_ACTUAL Fund (VoIP Actual)*/ #define UNIVERSAL_LIFELINE_TELEPHONE_SVC_CHG_VOIP_ACTUAL Lifeline Telephone Svc Chg (VoIP Actual)*/ #define TELECOMMUNICATIONS_RELAY_SVC_CHARGE_VOIP_ACTUAL /*Telecommunications Relay Svc Charge (VoIP Actual)*/ #define CA_TELECONNECT_FUND_VOIP_ACTUAL</pre>	277 278 279 280 281 282 283 284 285 286 287 288 289	/*Federal /*Municipal Right /*Education /*Secondary and /*Utility Users /*State USF (VoIP /*TRS (VoIP /*TRS (Trunk)*/ /*Deaf and /*Utility Users /*CA High Cost /*State High Cost
<pre>#define RESERVED_276 #define FEDERAL_UNIVERSAL_SERVICE_FUND_NON_BILLABLE Universal Service Fund (Non-Billable)*/ #define MUNICIPAL_RIGHT_OF_WAY_HIGH_CAPACITY_TRUNK of Way-High Capacity Trunk*/ #define EDUCATION_CESS Cess*/ #define SECONDARY_AND_HIGHER_EDUCATION_CESS Higher Education Cess*/ #define UTILITY_USERS_TAX_VIDEO Tax (Video)*/ #define STATE_USF_VOIP_ALTERNATE Alternate)*/ #define TRS_VOIP_BUSINESS Business)*/ #define TRS_TRUNK #define DEAF_AND_DISABLED_FUND_WIRELESS Disabled Fund (Wireless)*/ #define UTILITY_USERS_TAX_WIRELESSBUSINESS Tax_Wireless(Business)*/ #define TELECOMMUNICATIONS_SALES_TAX_PREPAID /*Telecommunications Sales Tax-Prepaid*/ #define CA_HIGH_COST_FUND_A_VOIP_ACTUAL Fund A (VOIP Actual)*/ #define UNIVERSAL_LIFELINE_TELEPHONE_SVC_CHG_VOIP_ACTUAL Lifeline Telephone Svc Chg (VoIP Actual)*/ #define TELECOMMUNICATIONS_RELAY_SVC_CHARGE_VOIP_ACTUAL Lifeline TELECOMMUNICATIONS_RELAY_SVC_CHARGE_VOIP_ACTUAL /*Telecommunications Relay Svc Charge (VOIP Actual)*/ #define CA_TELECONNECT_FUND_VOIP_ACTUAL Fund (VOIP Actual)*/</pre>	277 278 279 280 281 282 283 284 285 286 287 288 289 290 291	/*Federal /*Municipal Right /*Education /*Secondary and /*Utility Users /*State USF (VoIP /*TRS (VoIP /*TRS (Trunk)*/ /*Deaf and /*Utility Users /*CA High Cost /*State High Cost /*Universal
<pre>#define RESERVED_276 #define FEDERAL_UNIVERSAL_SERVICE_FUND_NON_BILLABLE Universal Service Fund (Non-Billable)*/ #define MUNICIPAL_RIGHT_OF_WAY_HIGH_CAPACITY_TRUNK of Way-High Capacity Trunk*/ #define EDUCATION_CESS Cess*/ #define SECONDARY_AND_HIGHER_EDUCATION_CESS Higher Education Cess*/ #define UTILITY_USERS_TAX_VIDEO Tax (Video)*/ #define STATE_USF_VOIP_ALTERNATE Alternate)*/ #define TRS_VOIP_BUSINESS Business)*/ #define TRS_TRUNK #define DEAF_AND_DISABLED_FUND_WIRELESS Disabled Fund (Wireless)*/ #define UTILITY_USERS_TAX_WIRELESSBUSINESS Tax_Wireless(Business)*/ #define TELECOMMUNICATIONS_SALES_TAX_PREPAID /*Telecommunications Sales Tax-Prepaid*/ #define CA_HIGH_COST_FUND_A_VOIP_ACTUAL Fund A (VOIP Actual)*/ #define STATE_HIGH_COST_FUND_VOIP_ACTUAL Fund (VOIP Actual)*/ #define UNIVERSAL_LIFELINE_TELEPHONE_SVC_CHG_VOIP_ACTUAL Lifeline Telephone Svc Chg (VoIP Actual)*/ #define TELECOMMUNICATIONS_RELAY_SVC_CHARGE_VOIP_ACTUAL /*Telecommunications Relay Svc Charge (VoIP Actual)*/ #define CA_TELECONNECT_FUND_VOIP_ACTUAL Fund (VOIP Actual)*/ #define CASF_VOIP_ACTUAL</pre>	277 278 279 280 281 282 283 284 285 286 287 288 289 290	/*Federal /*Municipal Right /*Education /*Secondary and /*Utility Users /*State USF (VoIP /*TRS (VoIP /*TRS (Trunk)*/ /*Deaf and /*Utility Users /*CA High Cost /*State High Cost /*Universal
<pre>#define RESERVED_276 #define FEDERAL_UNIVERSAL_SERVICE_FUND_NON_BILLABLE Universal Service Fund (Non-Billable)*/ #define MUNICIPAL_RIGHT_OF_WAY_HIGH_CAPACITY_TRUNK of Way-High Capacity Trunk*/ #define EDUCATION_CESS Cess*/ #define SECONDARY_AND_HIGHER_EDUCATION_CESS Higher Education Cess*/ #define UTILITY_USERS_TAX_VIDEO Tax (Video)*/ #define STATE_USF_VOIP_ALTERNATE Alternate)*/ #define TRS_VOIP_BUSINESS Business)*/ #define TRS_TRUNK #define DEAF_AND_DISABLED_FUND_WIRELESS Disabled Fund (Wireless)*/ #define UTILITY_USERS_TAX_WIRELESSBUSINESS Tax_Wireless(Business)*/ #define TELECOMMUNICATIONS_SALES_TAX_PREPAID /*Telecommunications Sales Tax-Prepaid*/ #define CA_HIGH_COST_FUND_A_VOIP_ACTUAL Fund A (VOIP Actual)*/ #define UNIVERSAL_LIFELINE_TELEPHONE_SVC_CHG_VOIP_ACTUAL Lifeline Telephone Svc Chg (VoIP Actual)*/ #define TELECOMMUNICATIONS_RELAY_SVC_CHARGE_VOIP_ACTUAL Lifeline TELECOMMUNICATIONS_RELAY_SVC_CHARGE_VOIP_ACTUAL /*Telecommunications Relay Svc Charge (VOIP Actual)*/ #define CA_TELECONNECT_FUND_VOIP_ACTUAL Fund (VOIP Actual)*/</pre>	277 278 279 280 281 282 283 284 285 286 287 288 289 290 291	/*Federal /*Municipal Right /*Education /*Secondary and /*Utility Users /*State USF (VoIP /*TRS (VoIP /*TRS (Trunk)*/ /*Deaf and /*Utility Users /*CA High Cost /*State High Cost /*Universal

#define OKLAHOMA_SALES_TAX	294	/*Oklahoma Sales
Tax*/ #define BUSINESS_AND_OCCUPATION_TAX_PRTG_AND_PUBLISHING	295	/*Business and
Occupation Tax (Prtg and Publishing)*/ #define PREMIER_RESORT_AREA_TAX	296	/*Premier Resort
Area Tax*/ #define E911_EQUALIZATION_SURCHARGE	297	/*E911
Equalization Surcharge*/ #define UNIVERSAL SERVICE_FEE	298	/*Universal
Service Fee*/ #define NE_UNIVERSAL_SERVICE	299	/*NE Universal
Service*/		,
<pre>#define TAP_SURCHARGE_WIRELESS (Wireless)*/</pre>	300	/*TAP Surcharge
<pre>#define GA_UNIVERSAL_ACCESS_FUND Access Fund*/</pre>	301	/*GA Universal
<pre>#define CA_HIGH_COST_FUND_A_WIRELESS Fund A (Wireless)*/</pre>	302	/*CA High Cost
#define CA_TELECONNECT_FUND_WIRELESS Fund (Wireless)*/	303	/*CA Teleconnect
#define CASF_WIRELESS	304	/*CASF
(Wireless)*/ #define STATE_HIGH_COST_FUND_WIRELESS	305	/*State High Cost
<pre>Fund (Wireless)*/ #define PUC_FEE_WIRELESS</pre>	306	/*PUC Fee
(Wireless)*/ #define UNIVERSAL LIFELINE_TELEPHONE_SVC_CHARGE_WIRELESS	307	/*Universal
Lifeline Telephone Svc Charge (Wireless)*/ #define NY_TAF	308	/*NY TAF*/
#define PREPAID_WIRELESS_E911_TRS_SURCHARGE	309	/*Prepaid
Wireless E911 TRS Surcharge*/ #define TRS_PREPAID_WIRELESS	310	/*TRS-Prepaid
Wireless*/ #define FUSF_MULTI_LINE	311	/*FUSF (Multi-
<pre>line)*/ #define ND_GROSS_RECEIPTS_TAX</pre>	312	/*ND Gross
Receipts Tax*/ #define NY_SALES_TAX	313	/*NY Sales Tax*/
#define NY_LOCAL_TRANSIT_TAX	314	/*NY Local
Transit Tax*/ #define NY_LOCAL_DISTRICT_TAX	315	/*NY Local
District Tax*/ #define SALES_TAX_SATELLITE	316	/*Sales Tax-
Satellite*/ #define SALES TAX COMMERCIAL LEASE	317	/*Sales Tax-
Commercial Lease*/ #define FOOD_AND_BEVERAGE_TAX	318	/*Food and
Beverage Tax*/		,
<pre>#define NETWORK_ACCESS_FEE_LD_INTERSTATE Fee LD-Interstate*/</pre>	319	/*Network Access
<pre>#define NETWORK_ACCESS_FEE_LD_INTRASTATE Fee LD-Intrastate*/</pre>	320	/*Network Access
<pre>#define VENDOR_USE_TAX Tax*/</pre>	321	/*Vendor Use
<pre>#define DISTRICT_VENDOR_USE_TAX Use Tax*/</pre>	322	/*District Vendor
#define SPECIAL_VENDOR_USE_TAX	323	/*Special Vendor
Use Tax*/ #define TRANSIT_VENDOR_USE_TAX	324	/*Transit Vendor
Use Tax*/ #define CRIME_CONTROL_DISTRICT_VENDOR_USE_TAX	325	/*Crime Control
District Vendor Use Tax*/ #define LIBRARY_DISTRICT_VENDOR_USE_TAX	326	/*Library
District Vendor Use Tax*/ #define HOSPITAL DISTRICT_VENDOR_USE_TAX	327	/*Hospital
District Vendor Use Tax*/ #define HEALTH_SERVICES_DISTRICT_VENDOR_USE_TAX	328	/*Health Services
District Vendor Use Tax*/		,
<pre>#define EMERGENCY_SERVICES_DISTRICT_VENDOR_USE_TAX Services District Vendor Use Tax*/</pre>	329	/*Emergency

#define IMPROVEMENT_DISTRICT_VENDOR_USE_TAX	330	/*Improvement
District Vendor Use Tax*/ #define DEVELOPMENT_DISTRICT_VENDOR_USE_TAX	331	/*Development
District Vendor Use Tax*/ #define AMBULANCE DISTRICT_VENDOR_USE_TAX	332	/*Ambulance
District Vendor Use Tax*/ #define FIRE DISTRICT_VENDOR_USE_TAX	333	/*Fire District
Vendor Use Tax*/		,
<pre>#define FOOTBALL_DISTRICT_VENDOR_USE_TAX District Vendor Use Tax*/</pre>	334	/*Football
<pre>#define BASEBALL_DISTRICT_VENDOR_USE_TAX District Vendor Use Tax*/</pre>	335	/*Baseball
<pre>#define EDUCATIONAL_VENDOR_USE_TAX Vendor Use Tax*/</pre>	336	/*Educational
#define SCHOOL_DISTRICT_VENDOR_USE_TAX Vendor Use Tax*/	337	/*School District
<pre>#define ADVANCED_TRANSIT_VENDOR_USE_TAX</pre>	338	/*Advanced
Transit Vendor Use Tax*/ #define TRIBAL_VENDOR_USE_TAX	339	/*Tribal Vendor
Use Tax*/ #define VENDOR_USE_TAX_SENIOR_CITIZEN	340	/*Vendor Use Tax-
Senior Citizen*/ #define VENDOR_USE_TAX_MANUFACTURING	341	/*Vendor Use Tax-
Manufacturing*/ #define VENDOR_USE_TAX_MOTOR_VEHICLES	342	/*Vendor Use Tax-
Motor Vehicles*/		
<pre>#define VENDOR_USE_TAX_VENDING Vending*/</pre>	343	/*Vendor Use Tax-
<pre>#define VENDOR_USE_TAX_FOOD_AND_DRUGS Food and Drugs*/</pre>	344	/*Vendor Use Tax-
#define VENDOR_USE_TAX_FOOD	345	/*Vendor Use Tax-
Food*/ #define VENDOR_USE_TAX_MOTOR_FUEL	346	/*Vendor Use Tax-
Motor Fuel*/ #define VENDOR_USE_TAX_PARKING	347	/*Vendor Use Tax-
Parking*/ #define VENDOR_USE_TAX_MEDICAL_EQUIPMENT	348	/*Vendor Use Tax-
Medical Equipment*/ #define ALCOHOLIC_BEVERAGE_VENDOR_USE_TAX	349	/*Alcoholic
Beverage Vendor Use Tax*/ #define VENDOR_USE_TAX_ALCOHOL	350	/*Vendor Use Tax-
Alcohol*/		
<pre>#define LIQUOR_DRINK_VENDOR_USE_TAX Vendor Use Tax*/</pre>	351	/*Liquor Drink
<pre>#define VENDOR_USE_TAX_VIDEO Video*/</pre>	352	/*Vendor Use Tax-
#define PREMIER_RESORT_AREA_VENDOR_USE_TAX Area Vendor Use Tax*/	353	/*Premier Resort
<pre>#define NY_TRANSIT_VENDOR_USE_TAX</pre>	354	/*NY Transit
Vendor Use Tax*/ #define NY_DISTRICT_VENDOR_USE_TAX	355	/*NY District
Vendor Use Tax*/ #define VENDOR_USE_TAX_FOOD_AND_BEVERAGE	356	/*Vendor Use Tax-
Food and Beverage*/ #define CONSUMER_USE_TAX	357	/*Consumer Use
Tax*/ #define DISTRICT_CONSUMER_USE_TAX	358	/*District
Consumer Use Tax*/ #define SPECIAL_CONSUMER_USE_TAX	359	/*Special
Consumer Use Tax*/		-
<pre>#define TRANSIT_CONSUMER_USE_TAX Consumer Use Tax*/</pre>	360	/*Transit
<pre>#define CRIME_CONTROL_DISTRICT_CONSUMER_USE_TAX District Consumer Use Tax*/</pre>	361	/*Crime Control
<pre>#define LIBRARY_DISTRICT_CONSUMER_USE_TAX District Consumer Use Tax*/</pre>	362	/*Library
#define HOSPITAL_DISTRICT_CONSUMER_USE_TAX District Consumer Use Tax*/	363	/*Hospital
#define HEALTH_SERVICES_DISTRICT_CONSUMER_USE_TAX	364	/*Health Services
District Consumer Use Tax*/		

<pre>#define EMERGENCY_SERVICES_DISTRICT_CONSUMER_USETAX Services District Consumer UseTax*/</pre>	365	/*Emergency
#define IMPROVEMENT_DISTRICT_CONSUMER_USE_TAX	366	/*Improvement
District Consumer Use Tax*/ #define DEVELOPMENT_DISTRICT_CONSUMER_USE_TAX	367	/*Development
District Consumer Use Tax*/ #define AMBULANCE_DISTRICT_CONSUMER_USE_TAX	368	/*Ambulance
District Consumer Use Tax*/ #define FIRE DISTRICT_CONSUMER_USE_TAX	369	/*Fire District
Consumer Use Tax*/ #define FOOTBALL_DISTRICT_CONSUMER_USE_TAX	370	/*Football
District Consumer Use Tax*/		,
<pre>#define BASEBALL_DISTRICT_CONSUMER_USE_TAX District Consumer Use Tax*/</pre>	371	/*Baseball
<pre>#define EDUCATIONAL_CONSUMER_USE_TAX Consumer Use Tax*/</pre>	372	/*Educational
<pre>#define SCHOOL_DISTRICT_CONSUMER_USE_TAX Consumer Use Tax*/</pre>	373	/*School District
<pre>#define ADVANCED_TRANSIT_CONSUMER_USE_TAX</pre>	374	/*Advanced
Transit Consumer Use Tax*/ #define TRIBAL_CONSUMER_USE_TAX	375	/*Tribal Consumer
Use Tax*/ #define CONSUMER_USE_TAX_SENIOR_CITIZEN	376	/*Consumer Use
Tax-Senior Citizen*/ #define CONSUMER_USE_TAX_MANUFACTURING	377	/*Consumer Use
Tax-Manufacturing*/	378	,
<pre>#define CONSUMER_USE_TAX_MOTOR_VEHICLES Tax-Motor Vehicles*/</pre>		/*Consumer Use
<pre>#define CONSUMER_USE_TAX_VENDING Tax-Vending*/</pre>	379	/*Consumer Use
#define CONSUMER_USE_TAX_FOOD_AND_DRUGS Tax-Food and Drugs*/	380	/*Consumer Use
#define CONSUMER_USE_TAX_FOOD Tax-Food*/	381	/*Consumer Use
#define CONSUMER_USE_TAX_MOTOR_FUEL	382	/*Consumer Use
Tax-Motor Fuel*/ #define CONSUMER_USE_TAX_PARKING	383	/*Consumer Use
Tax-Parking*/ #define CONSUMER_USE_TAX_MEDICAL_EQUIPMENT	384	/*Consumer Use
Tax-Medical Equipment*/ #define ALCOHOLIC_BEVERAGE_CONSUMER_USE_TAX	385	/*Alcoholic
Beverage Consumer Use Tax*/		,
<pre>#define CONSUMER_USE_TAX_ALCOHOL Tax-Alcohol*/</pre>	386	/*Consumer Use
<pre>#define LIQUOR_DRINK_CONSUMER_USE_TAX Consumer Use Tax*/</pre>	387	/*Liquor Drink
<pre>#define CONSUMER_USE_TAX_VIDEO Tax-Video*/</pre>	388	/*Consumer Use
#define PREMIER_RESORT_AREA_CONSUMER_USE_TAX	389	/*Premier Resort
Area Consumer Use Tax*/ #define NY_LOCAL_TRANSIT_CONSUMER_USE_TAX	390	/*NY Transit
Consumer Use Tax*/ #define NY_DISTRICT_CONSUMER_USE_TAX	391	/*NY District
Consumer Use Tax*/ #define CONSUMER_USE_TAX_FOOD_AND_BEVERAGE	392	/*Consumer Use
Tax-Food and Beverage*/ #define TASA_DE_CONTROL	393	/*Tasa de
Control*/		,
<pre>#define RADIO_RIGHTS_FEE Fee*/</pre>	394	/*Radio Rights
#define BUSINESS_AND_OCCUPATION_TAX_RENT_AND_ROYALTY Occupation Tax-Rent and Royalty*/	395	/*Business and
<pre>#define BUSINESS_AND_OCCUPATION_TAX_OTHER_SERVICES Occupation Tax-Other Services*/</pre>	396	/*Business and
#define MONTANA_EXCISE_TAX	397	/*Montana Excise
Tax*/ #define RURAL_TRANSPORTATION_AUTHORITY_DISTRICT_TAX	398	/*Rural
Transportation Authority District Tax*/ #define MHA_DISTRICT_TAX	399	/*MHA District
Tax*/		

#define PUBLIC_SAFETY_IMPROVEMENTS_DISTRICT_TAX	400	/*Public Safety
<pre>Improvements District Tax*/ #define MASS_TRANSIT_DISTRICT_TAX</pre>	401	/*Mass Transit
District Tax*/	400	/#25 1 7 1 1
<pre>#define METROPOLITAN_DISTRICT_TAX District Tax*/</pre>	402	/*Metropolitan
<pre>#define RTA_CONSUMER_USE_TAX Use Tax*/</pre>	403	/*RTA Consumer
#define RTA_VENDOR_USE_TAX	404	/*RTA Vendor Use
Tax*/ #define MHA_CONSUMER_USE_TAX	405	/*MHA Consumer
Use Tax*/ #define MHA_VENDOR_USE_TAX	406	/*MHA Vendor Use
Tax*/		,
<pre>#define MASS_TRANSIT_DISTRICT_CONSUMER_USE_TAX District Consumer Use Tax*/</pre>	407	/*Mass Transit
<pre>#define MASS_TRANSIT_DISTRICT_VENDOR_USE_TAX District Vendor Use Tax*/</pre>	408	/*Mass Transit
#define VAT_REDUCED_RATE	409	/*VAT (Reduced
Rate)*/ #define POISON_CONTROL_FUND_WIRELESS	410	/*Poison Control
Fund (Wireless)*/		
<pre>#define STATE_INSPECTION_AND_SUPERVISION Inspection and Supervision*/</pre>	411	/*State
<pre>#define EDUCATION_SALES_VENDING Sales-Vending*/</pre>	412	/*Education
#define EDUCATION_SALES_MOTOR_VEHICLES	413	/*Education
Sales-Motor Vehicles*/ #define EDUCATION_USE_MOTOR_VEHICLES	414	/*Education Use-
Motor Vehicles*/		,
<pre>#define EDUCATION_CONSUMER_USE_MOTOR_VEHICLES Consumer Use-Motor Vehicles*/</pre>	415	/*Education
<pre>#define EDUCATION_VENDOR_USE_MOTOR_VEHICLES Vendor Use-Motor Vehicles*/</pre>	416	/*Education
#define EDUCATION_SALES_MANUFACTURING	417	/*Education
Sales-Manufacturing*/ #define EDUCATION_USE_MANUFACTURING	418	/*Education Use-
Manufacturing*/ #define EDUCATION_CONSUMER_USE_MANUFACTURING	410	/*Education
Consumer Use - Manufacturing*/	419	/ *Education
<pre>#define EDUCATION_VENDOR_USE_MANUFACTURING Vendor Use - Manufacturing*/</pre>	420	/*Education
#define RENTAL_USE_TAX_MOTOR_VEHICLES	421	/*Rental Use Tax
- Motor Vehicles*/ #define CONSUMER_USE_RENTAL_TAX_MOTOR_VEHICLES	422	/*Consumer Use
Rental Tax - Motor Vehicles*/ #define VENDOR_USE_RENTAL_TAX_MOTOR_VEHICLES	423	/*Vendor Use
Rental Tax - Motor Vehicles*/		
<pre>#define REVENUE_STATEMENT Statement*/</pre>	424	/*Revenue
<pre>#define NY_MCTD_186C_WIRELESS (Wireless)*/</pre>	425	/*NY MCTD 186c
#define NY_MCTD_186C_WIRELESS	425	/*NY MCTD 186c
(Wireless)*/ #define WY USF	426	/*WY USF*/
#define WY_USF_PAGING	427	/*WY USF
(Paging)*/ #define WY_USF_WIRELESS	428	/*WY USF
<pre>(Wireless)*/ #define FCC_REGULATORY_FEE_TOLL_FREE</pre>	429	/*FCC Regulatory
Fee-Toll Free*/		-
<pre>#define FCC_REGULATORY_FEE_SATELLITE Fee (Satellite)*/</pre>	430	/*FCC Regulatory
#define COMMERCE_TAX	431	/*Commerce Tax*/
<pre>#define TELECOM_ASSISTANCE_SVC_FUND_VOIP Assistance Svc Fund - VoIP*/</pre>	432	/*Telecom
#define TELECOM_ASSISTANCE_SVC_FUND_VOIP_HIGH_CAP_TRNK Assistance Svc Fund - VoIP High Cap Trnk*/	433	/*Telecom
#define E911_VOIP_NOMADIC_PBX	434	/*E-911 (VoIP-
Nomadic PBX)*/		

#define E911_SERVICE_FEE_NL_911_BUREAU	435	/*E-911 Service
Fee (NL 911 Bureau)*/ #define COPYRIGHT_FEE_RATED	436	/*Copyright Fee
(Rated)*/ #define COPYRIGHT_FEE_FIXED	437	/*Copyright Fee
(Fixed)*/ #define UTILITY_TAX	438	/*Utility Tax*/
#define AUDIO_VIDEO_SERVICE_TAX Service Tax*/	439	/*Audio-Video
#define SWACHH_BHARAT_CESS Cess*/	440	/*Swachh Bharat
#define PIS	441	/*PIS*/
#define COFINS	442	/*COFINS*/
#define ICMS	443	/*ICMS*/
<pre>#define FEDERAL_USF_CENTREX (Centrex)*/</pre>	444	/*Federal USF
<pre>#define UUT_PREPAID_WIRELESS Wireless)*/</pre>	445	/*UUT (Prepaid
<pre>#define MOBILE_TELEPHONY_SERVICES_SURCHARGE Telephony Services Surcharge*/</pre>	446	/*Mobile
#define ACCESS_LINE_TAX_PREPAID_WIRELESS (Prepaid Wireless)*/	447	/*Access Line Tax
#define SAN_LEANDRO_EMERG_COM_SYS_ACC_TAX_PPD_WIRELESS Emerg Com Sys Acc Tax(Ppd Wireless)*/	448	/*San Leandro
#define RENTAL_TAX_LOWER_RATE (Lower Rate)*/	449	/*Rental Tax
#define CA_HIGH_COST_FUND_A_VOIP Fund A (VoIP)*/	450	/*CA High Cost
#define STATE_HIGH_COST_FUND_VOIP Fund (VoIP)*/	451	/*State High Cost
#define CA_TELECONNECT_FUND_VOIP Fund (VOIP)*/	452	/*CA Teleconnect
#define CASF_VOIP	453	/*CASF (VoIP)*/
#define UNIVERSAL_LIFELINE_TELEPHONE_SERVICE_CHARGE_VOIP Lifeline Telephone Service Charge (VoIP)*/	454	/*Universal
#define FUNTTEL	455	/*FUNTTEL*/
#define FUST	456	/*FUST*/
<pre>#define TELECOMMUNICATIONS_USE_TAX</pre>	457	/*Telecommunicati
ons Use Tax*/ #define KRISHI_KALYAN_CESS	458	/*Krishi Kalyan
Cess*/ #define SCHOOL_AND_LIBRARY_FUND_SURCHARGE	459	/*School and
Library Fund Surcharge*/ #define STATE_911_CHARGE	460	/*State 911
Charge*/	100	/ Blace JII
<pre>#define ITAC_ASSESSMENT Assessment*/</pre>	461	/*ITAC
<pre>#define STATE_911_CHARGE_WIRELESS Charge (Wireless)*/</pre>	462	/*State 911
<pre>#define E911_ADVANCED_SERVICES Services)*/</pre>	463	/*E-911 (Advanced
<pre>#define VAT_WIRELESS (Wireless)*/</pre>	464	/*VAT
#define VAT_COMMUNICATIONS ((Communications)*/	465	/*VAT
#define CA_TRS	466	/*CA TRS*/
#define CA_TRS_WIRELESS (Wireless)*/	467	/*CA TRS
#define CA_PUC_FEE	468	/*CA PUC Fee*/
#define USE_TAX_RENTAL	469	/*Use Tax
(Rental)*/ #define USE_TAX_OTHER	470	/*Use Tax
(Other)*/ #define CONSUMER_USE_TAX_OTHER	471	/*Consumer Use
Tax (Other)*/		/*Vendor Use Tax
#define VENDOR_USE_TAX_OTHER	472	/ Vendor use rax
(Other)*/		
	472 473 474	/*SC USF*/ /*USF (Prepaid

<pre>#define E911_LIFELINE (Lifeline)*/</pre>	475	/*E-911
#define UTILITY_TAX_NF NF*/	476	/*Utility Tax
#define TELECOMMUNICATIONS_SALES_TAX_WHOLESALES	477	/*Telecommuni-
cations Sales Tax (Wholesale)*/ #define E_RATE_BROADBAND_PROGRAM	478	/*E-rate
Broadband Program*/ #define E_RATE_BROADBAND_PROGRAM_BUSINESS_LINE	479	/*E-rate
Broadband Program (Business Line)*/ #define E_RATE_BROADBAND_PROGRAM_LINE	480	/*E-rate
Broadband Program (Line)*/ #define E_RATE_BROADBAND_PROGRAM_WIRELESS Broadband Program (Wireless)*/	481	/*E-rate
#define IGST_COMMUNICATIONS	482	/*IGST
(Communications)*/ #define CGST	483	/*CGST*/
#define CGST_COMMUNICATIONS	484	/*CGST*/
(Communications)*/		, 555
#define SGST	485	/*SGST*/
#define SGST_COMMUNICATIONS	486	/*SGST
(Communications)*/ #define UNIVERSAL_SERVICE_FUND_OTHER	487	/*Universal
Service Fund (Other)*/ #define IGST	488	/*IGST*/
#define KENTUCKY_LIFELINE_SURCHARGE	489	/*IGS1"/ /*Kentucky
Lifeline Surcharge*/	103	, nemedeny
<pre>#define TELECOMMUNICATIONS_SALES_TAX_NF cations Sales Tax NF*/</pre>	490	/*Telecommuni
#define PUBLIC_SAFETY_COMMUNICATIONS_SURCHARGE_PREPAID Communications Surcharge (Prepaid)*/	491	/*Public Safety
#define STATUTORY_GROSS_RECEIPTS_NF Receipts NF*/	492	/*Statutory Gross
#define PUC_FRANCHISE_FEE_VIDEO_NF Fee (Video) NF*/	493	/*PUC Franchise
#define SALES_TAX_NF	494	/*Sales Tax NF*/
#define DISTRICT_TAX_NF	495	/*District Tax
NF*/ #define HOSPITAL_DISTRICT_TAX_NF	496	/*Hospital
District Tax NF*/ #define IMPROVEMENT_DISTRICT_TAX_NF	497	/*Improvement
District Tax NF*/ #define MASS_TRANSIT_DISTRICT_TAX_NF	498	/*Mass Transit
District Tax NF*/ #define METROPOLITAN_DISTRICT_TAX_NF	499	/*Metropolitan
District Tax NF*/		_
<pre>#define MHA_DISTRICT_TAX_NF Tax NF*/</pre>	500	/*MHA District
<pre>#define PUBLIC_SAFETY_IMPROVEMENT_DISTRICT_TAX_NF Improvement District Tax NF*/</pre>	501	/*Public Safety
<pre>#define RURAL_TRANSPORTATION_AUTHORITY_DISTRICT_TAX_NF Transportation Authority District Tax NF*/</pre>	502	/*Rural
<pre>#define TRANSIT_TAX_NF NF*/</pre>	503	/*Transit Tax
#define DISTRICT_CONSUMER_USE_TAX_NF Consumer Use Tax NF*/	504	/*District
#define HOSPITAL_DISTRICT_CONSUMER_USE_TAX_NF	505	/*Hospital
District Consumer Use Tax NF*/ #define IMPROVEMENT_DISTRICT_CONSUMER_USE_TAX_NF	506	/*Improvement
District Consumer Use Tax NF*/ #define MASS_TRANSIT_DISTRICT_CONSUMER_USE_TAX_NF	507	/*Mass Transit
District Consumer Use Tax NF*/ #define MHA_CONSUMER_USE_TAX_NF	508	/*MHA Consumer
Use Tax NF*/ #define RTA_CONSUMER_USE_TAX_NF	509	/*RTA Consumer
Use Tax NF*/ #define Transit_Consumer_use_tax_nf	510	/*Transit
Consumer Use Tax NF*/ #define DISTRICT_VENDOR_USE_TAX_NF	511	/*District Vendor
Use Tax NF*/		

```
#define HOSPITAL_DISTRICT_VENDOR_USE_TAX_NF
                                                             512
                                                                                 /*Hospital
District Vendor Use Tax NF*/
#define IMPROVEMENT_DISTRICT_VENDOR_USE_TAX_NF
                                                             513
                                                                                 /*Improvement
District Vendor Use Tax NF*/
#define MASS_TRANSIT_DISTRICT_VENDOR_USE_TAX_NF
                                                             514
                                                                                 /*Mass Transit
District Vendor Use Tax NF*/
#define MHA_VENDOR_USE_TAX_NF
                                                             515
                                                                                 /*MHA Vendor Use
Tax NF*/
#define RTA_VENDOR_USE_TAX_NF
                                                                                 /*RTA Vendor Use
                                                             516
Tax NF*/
#define TRANSIT_VENDOR_USE_TAX_NF
                                                             517
                                                                                 /*Transit Vendor
Use Tax NF*/
#define STATE_USF_VOIP_ALTERNATE_NF
                                                                                 /*State USF (VoIP
Alternate) NF*/
#define E_RATE_BROADBAND_PROGRAM_VOIP_ALTERNATE
                                                             519
                                                                                 /*E-rate
Broadband Program (VoIP Alternate)*/
#define CONNECTME_FUND_VOIP_ALTERNATE
                                                             520
                                                                                 /*ConnectME Fund
(VoIP Alternate)*/
                                                                                 /*For BillSoft
#define TELECOMM_SALE_TAX
                                                             32711
internal use only*/
/* Deprecated Tax Type constants */
#define BUSINESS_OCCUPATION_TAX
                                                             BUSINESS_AND_OCCUPATION_TAX
#define FEDERAL_EXCISE
                                                             FEDERAL_EXCISE_TAX
#define FED_USF_SCHOOL_A
                                                             FED_USF_A_SCHOOL
#define E911_TAX
#define STATE_USF
                                                             STATE_UNIVERSAL_SERVICE_FUND
#define FED_USF_HIGHCOST_B
                                                             FED_UNIVERSAL_SERVICE_FUND
#define STATE_DEAF_DISABLED_FUND
                                                             STATE DEAF AND DISABLED FUND
#define TELECOMMUNICATIONS_RELAY_SERVICE_CHARGE
                                                             TELECOM_RELAY_SURCHARGE
#define TELECOM RELAY CHARGE
                                                             TELECOM_RELAY_SURCHARGE
#define TELCOMMUNICATIONS_INFRASTRUCTURE_FUND
TELECOMMUNICATIONS_INFRASTRUCTURE_FUND
#define NY_MCTD_186c
                                                             NY_MCTD_186C
#define NY_MCTD_184a
                                                             NY_MCTD_184A
#define TELECOMMUNICATIONS_ASSISTANCE_FUND
TELECOMMUNICATIONS_ASSISTANCE_SERVICE_FUND
#define E911 TAX PBX TRUNK LINE
                                                             E911 PBX TRUNK LINE
#define E911_TAX_RESIDENTIAL
                                                             E911_RESIDENTIAL
#define E911_TAX_WIRELESS
                                                             E911_WIRELESS
#define NY_MCTD_184a_USAGE
                                                             NY_MCTD_184A_USAGE
#define MUNICIPAL_RIGHT_OF_WAY_RESIDENTIAL
                                                             MUNICIPAL_RIGHT_OF_WAY
#define COMMUNICATIONS_SERVICES_TAX
                                                             COMMUNICATIONS_SERVICE_TAX
#define GOODS SERVICE TAX
                                                             GOODS_AND_SERVICE_TAX
#define SGT_E911
                                                             SGT_E911_TAX
                                                             SGT_E911_TAX_BUSINESS
#define SGT_E911_BUSINESS
#define SGT_E911_LICENSE_TAX
                                                             SGT_LICENSE_TAX
#define FRANCISE_TAX_WIRELESS
                                                             FRANCHISE_TAX_WIRELESS
#define E911_TAX_CENTREX
                                                             E911 CENTREX
#define BUSINESS_OCCUPATION_TAX_WHOLESALE
                                                             BUSINESS_AND_OCCUPATION_TAX_WHOLESALE
#define BUSINESS_OCCUPATION_TAX_OTHER
                                                             BUSINESS_AND_OCCUPATION_TAX_OTHER
#define STATE USF VOIP
                                                             UNIVERSAL SERVICE FUND VOIP
#define COMMUNICATIONS_SERVICES_TAX_CABLE
                                                             COMMUNICATIONS_SERVICE_TAX_CABLE
#define TRS_WIRELESS
                                                             TELECOM_RELAY_SURCHARGE_WIRELESS
#define TELECOM_RELAY_CHARGE_WIRELESS
                                                             TELECOM_RELAY_SURCHARGE_WIRELESS
#define CONNECT_ME_FUND
                                                             CONNECTME_FUND
#define CONNECT_ME_FUND_VOIP
                                                             CONNECTME_FUND_VOIP
#define CONNECT_ME_FUND_CABLE
                                                             CONNECTME FUND CABLE
#define FUSF NONBILLABLE
FEDERAL_UNIVERSAL_SERVICE_FUND_NON_BILLABLE
#define UUT_WIRELESS_BUSINESS
                                                             UTILITY_USERS_TAX_WIRELESSBUSINESS
#define STATE_UNIV_SVC_FUND_ALTERNATE
                                                             GA_UNIVERSAL_ACCESS_FUND
#define UNIV_LIFElINE_TELE_SVC_CHARGE_WIRELESS
UNIVERSAL_LIFELINE_TELEPHONE_SVC_CHARGE_WIRELESS
#define FUSF__MULTI_LINE
                                                             FUSF_MULTI_LINE
#define NY_TRANSIT_CONSUMER_USE_TAX
                                                             NY_LOCAL_TRANSIT_CONSUMER_USE_TAX
#ifdef __cplusplus
#endif
```

#endif /* _inc_EZTaxTaxTypeDefine_ */

```
#ifndef _inc_EZTaxTransTypeDefine_
#define _inc_EZTaxTransTypeDefine_
#ifdef __cplusplus
extern "C" {
#endif
/* Define transaction types */
#define TRANS_NO_TAX
                                                              0
                                                                                  /*No Tax*/
#define INTERSTATE
                                                                                  /*Interstate*/
                                                              1
#define INTRASTATE
                                                                                  /*Intrastate*/
#define OTHER
                                                              3
                                                                                  /*Other*/
#define NON_RECURRING
                                                                                  /*Non-Recurring*/
                                                              4
#define INTERNET
                                                                                  /*Internet*/
#define PAGING
                                                              6
                                                                                  /*Paging*/
#define LOCAL
                                                                                  /*Local*/
#define FAX
                                                              8
                                                                                  /*Fax*/
#define VOICE_MAIL
                                                              9
                                                                                  /*Voice Mail*/
                                                                                  /*Sales*/
#define SALES
                                                              10
#define SHIPPING
                                                              11
                                                                                  /*Shipping*/
#define NATURAL_GAS
                                                                                  /*Natural Gas*/
                                                              12
                                                                                   /*Cellular*/
#define CELLULAR
                                                              13
#define INTERNATIONAL
                                                              14
                                                                                  /*International*/
#define TELEPHONY
                                                              15
                                                                                  /*Telephony*/
#define CABLE_TELEVISION
                                                              16
                                                                                  /*Cable
Television*/
#define SGT
                                                              17
                                                                                  /*Sage*/
#define SATELLITE_TELEVISION
                                                              18
                                                                                  /*Satellite
Television*/
#define VOIP
                                                              19
                                                                                   /*VoIP*/
#define VOIPA
                                                                                  /*VoIPA*/
                                                              20
#define PAYPHONE
                                                              21
                                                                                  /*Payphone*/
#define SOFTWARE
                                                                                  /*Software*/
                                                              2.4
#define TIMESHARING
                                                              25
                                                                                  /*Timesharing*/
#define ALCOHOL
                                                                                  /*Alcohol*/
                                                              27
                                                                                  /*Beverages*/
#define BEVERAGES
                                                              2.8
#define BOOKS
                                                              29
                                                                                  /*Books*/
#define CLOTHING
                                                              30
                                                                                  /*Clothing*/
#define DRUGS
                                                              31
                                                                                  /*Drugs*/
#define ELECTRONIC_EQUIPMENT_AND_COMPUTER_HARDWARE
                                                              32
                                                                                  /*Electronic
Equipment and Computer Hardware*/
#define FUEL
                                                              33
                                                                                   /*Fuel*/
#define GENERAL_MERCHANDISE
                                                              34
                                                                                   /*General
Merchandise*/
#define GROCERIES
                                                              35
                                                                                   /*Groceries*/
#define MAGAZINES
                                                              36
                                                                                  /*Magazines*/
#define MANUFACTURING
                                                                                   /*Manufacturing*/
                                                              37
#define MEDICAL_DURABLE_EQUIPMENT
                                                              38
                                                                                   /*Medical-Durable
Equipment*/
#define MEDICAL_MOBILITY_ENHANCING_EQUIPMENT
                                                              39
                                                                                  /*Medical-
Mobility Enhancing Equipment*/
#define MEDICAL_PROSTHETIC_DEVICES
                                                              40
                                                                                  /*Medical-
Prosthetic Devices*/
#define MOTOR VEHICLES
                                                                                  /*Motor
                                                              41
Vehicles*/
#define NEWSPAPER
                                                              42
                                                                                   /*Newspaper*/
#define PREPARED_FOOD
                                                              43
                                                                                   /*Prepared Food*/
#define RENTALS_AND_LEASING
                                                              44
                                                                                   /*Rentals and
Leasing*/
#define SERVICES_CLEANING
                                                              45
                                                                                   /*Services-
Cleaning*/
#define SERVICES_LODGING
                                                              46
                                                                                   /*Services-
Lodging*/
#define SERVICES_PRINTING
                                                              47
                                                                                  /*Services-
Printing*/
#define SERVICES_PROFESSIONAL
                                                              48
                                                                                  /*Services-
```

EZTaxTransTvpe.h

Professional*/

```
#define SERVICES_RECREATION
                                                              49
                                                                                   /*Services-
Recreation*/
#define SERVICES_REPAIR
                                                              50
                                                                                   /*Services-
Repair*/
#define SERVICES_STORAGE
                                                              51
                                                                                   /*Services-
Storage*/
#define TIRES
                                                              52
                                                                                   /*Tires*/
#define TOBACCO
                                                              53
                                                                                   /*Tobacco*/
#define TOOLING
#define VENDING
                                                              54
                                                                                   /*Tooling*/
                                                              55
                                                                                   /*Vending*/
#define INFORMATION_SERVICES
                                                              56
                                                                                   /*Information
Services*/
#define DIGITAL_GOODS
                                                              57
                                                                                  /*Digital Goods*/
#define DARK_FIBER
                                                              58
                                                                                  /*Dark Fiber*/
#define VOIP_NOMADIC
                                                              59
                                                                                  /*VoIP-Nomadic*/
#define SATELLITE_PHONE
                                                                                   /*Satellite
                                                              60
Phone*/
#define VPN
                                                              61
                                                                                  /*VPN*/
#define RESERVED_62
                                                                                   /*Reserved_62*/
                                                              62
#define RESERVED_63
                                                              63
                                                                                   /*Reserved_63*/
#define CONFERENCING
                                                              64
                                                                                  /*Conferencing*/
#define NON_INTERCONNECTED_VOIP
                                                              65
                                                                                   /*Non-
Interconnected VoIP*/
/* Deprecated transaction type constants */
#define DO_NOT_APPLY_TAX
                                                              NO_TAX
#define INTERPROVINCIAL
                                                              INTERSTATE
#define INTRAPROVINCIAL
                                                              INTRASTATE
#define WIRELESS
                                                              CELLULAR
#ifdef __cplusplus
#endif
#endif /* _inc_EZTaxTransTypeDefine_ */
```

```
EZTaxServType.h
#ifndef _inc_EZTaxServTypeDefine_
#define _inc_EZTaxServTypeDefine_
#ifdef __cplusplus
extern "C" {
#endif
/* Define service types */
#define TOLL
                                                                  1
                                                                                       /*Toll*/
#define TOLL_FREE
                                                                  2
                                                                                       /*Toll-Free*/
#define WATS
                                                                                       /*WATS*/
                                                                  3
#define PRIVATE_LINE
                                                                  4
                                                                                       /*Private
Line*/
#define LOCAL_EXCHANGE
                                                                  5
                                                                                       /*Local
Exchange*/
#define ACCESS_CHARGE
                                                                                       /*Access
                                                                  6
Charge*/
#define SERVICE
                                                                  7
                                                                                       /*Service*/
#define INSTALL
                                                                  8
                                                                                       /*Install*/
#define DIRECTORY ADS
                                                                  9
                                                                                       /*Directory
Ads*/
#define USAGE
                                                                  10
                                                                                       /*Usage*/
#define ACTIVATION
                                                                  11
                                                                                       /*Activation*/
#define INTERNATIONAL_TOLL
                                                                  12
/*International Toll*/
#define EQUIPMENT_REPAIR
                                                                  13
                                                                                       /*Equipment
Repair*/
#define LATE_CHARGE
                                                                  14
                                                                                       /*Late
Charge*/
#define PRODUCT
                                                                  15
                                                                                       /*Product*/
#define N_900_SERVICE
                                                                                       /*900*/
                                                                  16
                                                                                       /*FOB Origin*/
#define FOB ORIGIN
                                                                  17
#define FOB_DESTINATION
                                                                  18
                                                                                       /*FOB
Destination*/
#define CONSUMPTION
                                                                  19
/*Consumption*/
#define FCC_SUBSCRIBER_LINE_FEE
                                                                  2.0
                                                                                       /*FCC
Subscriber Line Fee*/
#define LINES
                                                                                       /*Lines*/
                                                                  21
#define COIN
                                                                  22
                                                                                       /*Coin*/
#define LOCATION
                                                                  23
                                                                                       /*Location*/
#define PBX_TRUNK
                                                                  24
                                                                                       /*PBX/Trunk*/
#define USA_INBOUND
                                                                  25
                                                                                       /*USA
Inbound*/
#define PREPAID
                                                                  26
                                                                                       /*Prepaid*/
                                                                                       /*Data*/
#define DATA
                                                                  27
#define E911_CALL
                                                                  28
                                                                                       /*E911 Call*/
#define WEB_HOSTING
                                                                                       /*WEB
                                                                  29
Hosting*/
#define LOCAL FEATURE CHARGE
                                                                  30
                                                                                       /*Local
Feature Charge*/
#define USE
                                                                  31
                                                                                       /*Use*/
#define DEBIT
                                                                                       /*Debit*/
                                                                  32
#define ROAMING_CHARGE
                                                                  33
                                                                                       /*Roaming
Charge*/
#define CONFERENCE_BRIDGE
                                                                  34
                                                                                       /*Conference
Bridge*/
#define PREMIUM_SERVICE
                                                                  35
                                                                                       /*Premium
Service*/
#define PAY_PER_VIEW_SERVICE
                                                                                       /*Pay Per View
                                                                  36
Service*/
#define EQUIPMENT_RENTAL
                                                                  37
                                                                                       /*Equipment
Rental*/
#define WIRE MAINTENANCE PLAN
                                                                  38
                                                                                       /*Wire
Maintenance Plan*/
#define TV GUIDE
                                                                  39
                                                                                       /*TV Guide*/
#define CENTREX_DID_EXTENSION
                                                                                       /*Centrex/DID
                                                                  40
Extension*/
```

<pre>#define PBX_EXTENSION Extension*/</pre>	41	/*PBX
#define CENTREX_TRUNK	42	/*Centrex
Trunk*/	42	/ + T + /
#define INVOICE #define TELEGRAPH	43 44	/*Invoice*/ /*Telegraph*/
#define HIGH_CAPACITY_TRUNK	45	/*High
Capacity Trunk*/ #define PICC	46	/*PICC*/
#define NO_PICK_PICC	47	/*No Pick
PICC*/		
#define WIRELESS_ACCESS_CHARGE	48	/*Wireless
Access Charge*/ #define INTERSTATE USAGE	49	/*Interstate
Usage*/	1)	, incerpeace
#define INTRASTATE_USAGE	50	/*Intrastate
Usage*/ #undef INTERNATIONAL_USAGE		
#define INTERNATIONAL_USAGE	51	
/*International Usage*/		
<pre>#define WIRELESS_LINES Lines*/</pre>	52	/*Wireless
#define LNP	53	/*LNP*/
#define DIRECTORY_ASSISTANCE	54	/*Directory
Assistance*/		/+= 3
<pre>#define LOCAL_USAGE Usage*/</pre>	55	/*Local
#define PROVISIONING	56	
/*Provisioning*/		
<pre>#define DATA_PROCESSING Processing*/</pre>	57	/*Data
#define ACCESS_LINE	58	/*Access
Line*/		
<pre>#define LICENSED_SOFTWARE Software*/</pre>	59	/*Licensed
#define SOFTWARE_MAINTENANCE_AGREEMENT	60	/*Software
Maintenance Agreement*/		
<pre>#define REPORT_ON_CD_PAPER_FORM CD/Paper Form*/</pre>	61	/*Report On
#define INFORMATION_RETRIEVAL	62	/*Information
Retrieval*/		
<pre>#define RESTOCKING_FEE_RENTAL Fee - Rental*/</pre>	63	/*Restocking
#define RESTOCKING_FEE_PURCHASE	64	/*Restocking
Fee - Purchase*/		
<pre>#define PARTIAL_CREDIT Credit*/</pre>	65	/*Partial
#define LATE_CHARGE_BUNDLE	84	/*Late Charge
Bundle*/		
<pre>#define LOCAL_EXCHANGE_BUNDLE Exchange Bundle*/</pre>	85	/*Local
#define FCC_SUBSCRIBER_LINE_FEE_BUNDLE	86	/*FCC
Subscriber Line Fee Bundle*/		
<pre>#define LINES_BUNDLE Bundle*/</pre>	87	/*Lines
#define LOCATION_BUNDLE	88	/*Location
Bundle*/		
<pre>#define PBX_TRUNK_BUNDLE Bundle*/</pre>	89	/*PBX Trunk
#define LOCAL_FEATURE_CHARGE_BUNDLE	90	/*Local
Feature Charge Bundle*/		
#define CENTREX_EXTENSION_BUNDLE	91	/*Centrex
Extension Bundle*/ #define PBX_EXTENSION_BUNDLE	92	/*PBX
Extension Bundle*/		•
#define CENTREX_TRUNK_BUNDLE	93	/*Centrex
Trunk Bundle*/ #define INVOICE_BUNDLE	94	/*Invoice
Bundle*/		
#define HIGH_CAPACITY_TRUNK_BUNDLE	95	/*High
Capacity Trunk Bundle*/		

#define NO_PICK_PICC_BUNDLE	96	/*No Pick PICC
Bundle*/ #define PICC_BUNDLE	97	/*PICC
Bundle*/ #define ACCESS_NUMBER	98	/*Access
Number*/ #define INTERSTATE_ACCESS_CHARGE	99	/*Interstate
Access Charge*/		,
<pre>#define INTRASTATE_ACCESS_CHARGE Access Charge*/</pre>	100	/*Intrastate
<pre>#define INTERSTATE_ROAMING Roaming*/</pre>	101	/*Interstate
#define INTRASTATE_ROAMING	102	/*Intrastate
Roaming*/ #define SALES_TAX_AND_FUSF	103	/*Sales Tax
and FUSF*/ #define GENERAL_RULE	106	/*General
Rule*/ #define BEVERAGE_ABOVE_7_PCT_CONTENT_BY_WEIGHT	107	/*Beverage
Above 7% Content By Weight*/ #define BEVERAGE_BELOW_7_PCT_CONTENT_BY_WEIGHT	108	/*Beverage
Below 7% Content By Weight*/	100	(425) 3
<pre>#define MIXED_BEVERAGE_ABOVE_7_PCT_CONTENT_BY_WEIGHT Beverage above 7% Content By Weight*/</pre>	109	/*Mixed
<pre>#define MIXED_BEVERAGE_BELOW_7_PCT_CONTENT_BY_WEIGHT Beverage below 7% Content By Weight*/</pre>	110	/*Mixed
<pre>#define NON_MIXED_SERVED_IN_RESTAURANT_ABOVE_7_PCT Served in Restaurant Above 7%*/</pre>	111	/*Non Mixed
#define NON_MIXED_SERVED_IN_RESTAURANT_BELOW_7_PCT Served in Restaurant Below 7%*/	112	/*Non Mixed
#define CARBONATED_BEVERAGES	113	/*Carbonated
Beverages*/ #define SWEETENED_CARBONATED_BEVERAGES	114	/*Sweetened
Carbonated Beverages*/ #define BOTTLED_WATER	115	/*Bottled
Water*/ #define BOTTLED_WATER_CARBONATED_AND_OR_FLAVORED	116	/*Bottled
Water - Carbonated and/or Flavored*/ #define BOTTLED_WATER_CARBONATED_AND_OR_SWEETENED	117	/*Bottled
Water-Carbonated and/or Sweetened*/ #define SOFT_DRINKS	118	/*Soft
Drinks*/		
<pre>#define NATURAL_FRUIT_OR_VEGETABLE_JUICES Fruit or Vegetable Juices*/</pre>	119	/*Natural
<pre>#define NATURAL_CONTENTS_BETWEEN_0_PCT_24_PCT Contents Between 0%-24%*/</pre>	120	/*Natural
<pre>#define NATURAL_CONTENTS_BETWEEN_25_PCT_49_PCT Contents Between 25%-49%*/</pre>	121	/*Natural
#define NATURAL_CONTENTS_BETWEEN_50_PCT_69_PCT Contents Between 50%-69%*/	122	/*Natural
#define NATURAL_CONTENTS_BETWEEN_70_PCT_100_PCT	123	/*Natural
Contents Between 70%-100%*/ #define BOTTLED_TEA	124	/*Bottled
Tea*/ #define COFFEE	125	/*Coffee*/
#define RELIGIOUS	126	/*Religious*/
#define EDUCATIONAL_KINDERGARTEN_THROUGH_12TH_GRADE	127	/*Educational-
Kindergarten Through 12th Grade*/ #define EDUCATIONAL_COLLEGE_AND_TRADE_SCHOOL	128	/*Educational-
College and Trade School*/		
<pre>#define EVERYDAY #define SPORTING_ACTIVITIES</pre>	129 130	/*Everyday*/ /*Sporting
Activities*/ #define SPORTING EQUIPMENT	131	/*Sporting
Equipment*/		
#define PROTECTIVE	132	/*Protective*/
#define PROTECTIVE_MANUFACTURING	133	
/*Protective/Manufacturing*/	124	/ st TD= st /
<pre>#define FURS #define UNIFORMS</pre>	134 135	/*Furs*/ /*Uniforms*/
#MCLING OMILOIGID	± J J	/ UIIIIUI ((IS " /

#define FORMAL_OR_SPECIAL_OCCASION_WEAR	136	/*Formal or
Special Occasion Wear*/	1 2 7	/ # C + + /
#define COSTUMES	137	/*Costumes*/
#define ACCESSORIES	138	
/*Accessories*/	120	/45 1 3
#define DISPLAY_SAMPLES	139	/*Display
Samples*/	1.10	44.50
#define CLOTH_DIAPERS	140	/*Cloth
Diapers*/		
#define CLEAN_ROOM	141	/*Clean Room*/
#define BATHING_CAPS	142	/*Bathing
Caps*/		
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Books*/ #define SUPPLIES_AND_FOOD_FOR_SEEING_EYE_DOG Food for Seeing Eye Dog*/ #define NON_LEAD_BASED_BATTERIES Based Batteries*/ #define CANDY #define CHEWING_GUM Gum*/ #define FOOD_ADDITIVES	231 232 233 234	/*Supplies and /*Non-Lead /*Candy*/ /*Chewing
Books*/ #define SUPPLIES_AND_FOOD_FOR_SEEING_EYE_DOG Food for Seeing Eye Dog*/ #define NON_LEAD_BASED_BATTERIES Based Batteries*/ #define CANDY #define CHEWING_GUM Gum*/ #define FOOD_ADDITIVES Additives*/ #define CONFECTIONARY_ITEMS	231 232 233 234 235	/*Supplies and /*Non-Lead /*Candy*/ /*Chewing
Books*/ #define SUPPLIES_AND_FOOD_FOR_SEEING_EYE_DOG Food for Seeing Eye Dog*/ #define NON_LEAD_BASED_BATTERIES Based Batteries*/ #define CANDY #define CHEWING_GUM Gum*/ #define FOOD_ADDITIVES Additives*/ #define CONFECTIONARY_ITEMS /*Confectionary Items*/ #define ICE #define DIETARY_SUPPLEMENTS_QUALIFY	231 232 233 234 235 236	/*Supplies and /*Non-Lead /*Candy*/ /*Chewing /*Food
Books*/ #define SUPPLIES_AND_FOOD_FOR_SEEING_EYE_DOG Food for Seeing Eye Dog*/ #define NON_LEAD_BASED_BATTERIES Based Batteries*/ #define CANDY #define CHEWING_GUM Gum*/ #define FOOD_ADDITIVES Additives*/ #define CONFECTIONARY_ITEMS /*Confectionary Items*/ #define ICE #define DIETARY_SUPPLEMENTS_QUALIFY Supplements-Qualify*/ #define DIETARY_SUPPLEMENTS_NON_QUALIFY	231 232 233 234 235 236 237	/*Supplies and /*Non-Lead /*Candy*/ /*Chewing /*Food
Books*/ #define SUPPLIES_AND_FOOD_FOR_SEEING_EYE_DOG Food for Seeing Eye Dog*/ #define NON_LEAD_BASED_BATTERIES Based Batteries*/ #define CANDY #define CHEWING_GUM Gum*/ #define FOOD_ADDITIVES Additives*/ #define CONFECTIONARY_ITEMS /*Confectionary Items*/ #define ICE #define DIETARY_SUPPLEMENTS_QUALIFY Supplements-Qualify*/ #define DIETARY_SUPPLEMENTS_NON_QUALIFY Supplements-Non Qualify*/	231 232 233 234 235 236 237 238 239	/*Supplies and /*Non-Lead /*Candy*/ /*Chewing /*Food /*Ice*/ /*Dietary /*Dietary
Books*/ #define SUPPLIES_AND_FOOD_FOR_SEEING_EYE_DOG Food for Seeing Eye Dog*/ #define NON_LEAD_BASED_BATTERIES Based Batteries*/ #define CANDY #define CHEWING_GUM Gum*/ #define FOOD_ADDITIVES Additives*/ #define CONFECTIONARY_ITEMS /*Confectionary Items*/ #define ICE #define DIETARY_SUPPLEMENTS_QUALIFY Supplements-Qualify*/ #define DIETARY_SUPPLEMENTS_NON_QUALIFY Supplements-Non Qualify*/ #define RETAIL_PUBLISHED_MONTHLY Published Monthly*/	231 232 233 234 235 236 237 238 239 240	/*Supplies and /*Non-Lead /*Candy*/ /*Chewing /*Food /*Ice*/ /*Dietary /*Dietary /*Retail -
Books*/ #define SUPPLIES_AND_FOOD_FOR_SEEING_EYE_DOG Food for Seeing Eye Dog*/ #define NON_LEAD_BASED_BATTERIES Based Batteries*/ #define CANDY #define CHEWING_GUM Gum*/ #define FOOD_ADDITIVES Additives*/ #define CONFECTIONARY_ITEMS /*Confectionary Items*/ #define DIETARY_SUPPLEMENTS_QUALIFY Supplements-Qualify*/ #define DIETARY_SUPPLEMENTS_NON_QUALIFY Supplements-Non Qualify*/ #define RETAIL_PUBLISHED_MONTHLY	231 232 233 234 235 236 237 238 239	/*Supplies and /*Non-Lead /*Candy*/ /*Chewing /*Food /*Ice*/ /*Dietary /*Dietary
Books*/ #define SUPPLIES_AND_FOOD_FOR_SEEING_EYE_DOG Food for Seeing Eye Dog*/ #define NON_LEAD_BASED_BATTERIES Based Batteries*/ #define CANDY #define CHEWING_GUM Gum*/ #define FOOD_ADDITIVES Additives*/ #define CONFECTIONARY_ITEMS /*Confectionary Items*/ #define ICE #define DIETARY_SUPPLEMENTS_QUALIFY Supplements-Qualify*/ #define DIETARY_SUPPLEMENTS_NON_QUALIFY Supplements-Non Qualify*/ #define RETAIL_PUBLISHED_MONTHLY Published Monthly*/ #define RETAIL_PUBLISHED_ANNUALLY Published Annually*/ #define RETAIL_PUBLISHED_SEMI_MONTHLY	231 232 233 234 235 236 237 238 239 240	/*Supplies and /*Non-Lead /*Candy*/ /*Chewing /*Food /*Ice*/ /*Dietary /*Dietary /*Retail -
Books*/ #define SUPPLIES_AND_FOOD_FOR_SEEING_EYE_DOG Food for Seeing Eye Dog*/ #define NON_LEAD_BASED_BATTERIES Based Batteries*/ #define CANDY #define CHEWING_GUM Gum*/ #define FOOD_ADDITIVES Additives*/ #define CONFECTIONARY_ITEMS /*Confectionary Items*/ #define ICE #define DIETARY_SUPPLEMENTS_QUALIFY Supplements-Qualify*/ #define DIETARY_SUPPLEMENTS_NON_QUALIFY Supplements-Non Qualify*/ #define RETAIL_PUBLISHED_MONTHLY Published Monthly*/ #define RETAIL_PUBLISHED_ANNUALLY Published Annually*/ #define RETAIL_PUBLISHED_SEMI_MONTHLY Published Semi-Monthly*/ #define RETAIL_PUBLISHED_SEMI_MONTHLY Published Semi-Monthly*/ #define RETAIL_PUBLISHED_SEMI_MONTHLY Published Semi-Monthly*/ #define RETAIL_PUBLISHED_SEMI_MONTHLY Published Semi-Monthly*/ #define RETAIL_PUBLISHED_SEMI_ANNUALLY	231 232 233 234 235 236 237 238 239 240 241	/*Supplies and /*Non-Lead /*Candy*/ /*Chewing /*Food /*Ice*/ /*Dietary /*Dietary /*Retail - /*Retail -
Books*/ #define SUPPLIES_AND_FOOD_FOR_SEEING_EYE_DOG Food for Seeing Eye Dog*/ #define NON_LEAD_BASED_BATTERIES Based Batteries*/ #define CANDY #define CHEWING_GUM Gum*/ #define FOOD_ADDITIVES Additives*/ #define CONFECTIONARY_ITEMS /*Confectionary Items*/ #define ICE #define DIETARY_SUPPLEMENTS_QUALIFY Supplements-Qualify*/ #define DIETARY_SUPPLEMENTS_NON_QUALIFY Supplements-Non Qualify*/ #define RETAIL_PUBLISHED_MONTHLY Published Monthly*/ #define RETAIL_PUBLISHED_SEMI_MONTHLY Published Semi-Monthly*/ #define RETAIL_PUBLISHED_SEMI_MONTHLY Published Semi-Monthly*/ #define RETAIL_PUBLISHED_SEMI_MONTHLY Published Semi-Monthly*/ #define RETAIL_PUBLISHED_SEMI_ANNUALLY Published Semi-Annually*/ #define RETAIL_PUBLISHED_SEMI_ANNUALLY Published Semi-Annually*/ #define RETAIL_PUBLISHED_SEMI_ANNUALLY Published Semi-Annually*/ #define RETAIL_PUBLISHED_SEMI_ANNUALLY	231 232 233 234 235 236 237 238 239 240 241 242	/*Supplies and /*Non-Lead /*Candy*/ /*Chewing /*Food /*Ice*/ /*Dietary /*Retail - /*Retail - /*Retail -
Books*/ #define SUPPLIES_AND_FOOD_FOR_SEEING_EYE_DOG Food for Seeing Eye Dog*/ #define NON_LEAD_BASED_BATTERIES Based Batteries*/ #define CANDY #define CHEWING_GUM Gum*/ #define FOOD_ADDITIVES Additives*/ #define CONFECTIONARY_ITEMS /*Confectionary Items*/ #define DIETARY_SUPPLEMENTS_QUALIFY Supplements-Qualify*/ #define DIETARY_SUPPLEMENTS_NON_QUALIFY Supplements-Non Qualify*/ #define RETAIL_PUBLISHED_MONTHLY Published Monthly*/ #define RETAIL_PUBLISHED_SEMI_MONTHLY Published Semi-Monthly*/ #define RETAIL_PUBLISHED_SEMI_MONTHLY Published Semi-Monthly*/ #define RETAIL_PUBLISHED_SEMI_ANNUALLY Published Semi-Annually*/ #define RETAIL_PUBLISHED_SEMI_ANNUALLY Published Semi-Annually*/ #define RETAIL_PUBLISHED_QUARTERLY Published Quarterly*/ #define RETAIL_PUBLISHED_QUARTERLY	231 232 233 234 235 236 237 238 239 240 241 242 243	/*Supplies and /*Non-Lead /*Candy*/ /*Chewing /*Food /*Ice*/ /*Dietary /*Dietary /*Retail - /*Retail - /*Retail - /*Retail -
Books*/ #define SUPPLIES_AND_FOOD_FOR_SEEING_EYE_DOG Food for Seeing Eye Dog*/ #define NON_LEAD_BASED_BATTERIES Based Batteries*/ #define CANDY #define CHEWING_GUM Gum*/ #define FOOD_ADDITIVES Additives*/ #define CONFECTIONARY_ITEMS /*Confectionary Items*/ #define ICE #define DIETARY_SUPPLEMENTS_QUALIFY Supplements-Qualify*/ #define DIETARY_SUPPLEMENTS_NON_QUALIFY Supplements-Non Qualify*/ #define RETAIL_PUBLISHED_MONTHLY Published Monthly*/ #define RETAIL_PUBLISHED_ANNUALLY Published Annually*/ #define RETAIL_PUBLISHED_SEMI_MONTHLY Published Semi-Monthly*/ #define RETAIL_PUBLISHED_SEMI_ANNUALLY Published Semi-Annually*/ #define RETAIL_PUBLISHED_SEMI_ANNUALLY Published Semi-Annually*/ #define RETAIL_PUBLISHED_SEMI_ANNUALLY Published Semi-Annually*/ #define RETAIL_PUBLISHED_QUARTERLY Published Quarterly*/ #define RETAIL_PUBLISHED_WEEKLY Published Weekly*/	231 232 233 234 235 236 237 238 239 240 241 242 243 244	/*Supplies and /*Non-Lead /*Candy*/ /*Chewing /*Food /*Ice*/ /*Dietary /*Dietary /*Retail - /*Retail - /*Retail - /*Retail - /*Retail -
Books*/ #define SUPPLIES_AND_FOOD_FOR_SEEING_EYE_DOG Food for Seeing Eye Dog*/ #define NON_LEAD_BASED_BATTERIES Based Batteries*/ #define CANDY #define CHEWING_GUM Gum*/ #define FOOD_ADDITIVES Additives*/ #define CONFECTIONARY_ITEMS /*Confectionary Items*/ #define DIETARY_SUPPLEMENTS_QUALIFY Supplements-Qualify*/ #define DIETARY_SUPPLEMENTS_NON_QUALIFY Supplements-Non Qualify*/ #define RETAIL_PUBLISHED_MONTHLY Published Monthly*/ #define RETAIL_PUBLISHED_SEMI_MONTHLY Published Semi-Monthly*/ #define RETAIL_PUBLISHED_SEMI_MONTHLY Published Semi-Monthly*/ #define RETAIL_PUBLISHED_SEMI_ANNUALLY Published Semi-Annually*/ #define RETAIL_PUBLISHED_SEMI_ANNUALLY Published Semi-Annually*/ #define RETAIL_PUBLISHED_QUARTERLY Published Quarterly*/ #define RETAIL_PUBLISHED_QUARTERLY	231 232 233 234 235 236 237 238 239 240 241 242 243 244 245	/*Supplies and /*Non-Lead /*Candy*/ /*Chewing /*Food /*Ice*/ /*Dietary /*Dietary /*Retail - /*Retail - /*Retail - /*Retail - /*Retail -

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<pre>#define NOT_HOME_USE_REIMBURSED_BY_MEDICAID</pre>	292	/*Not Home
Use-Reimbursed By Medicaid*/	202	/*II.a
<pre>#define HOME_USE_WITHOUT_A_PRESCRIPTION Without A Prescription*/</pre>	293	/*Home Use-
#define HOME_USE_WITH_A_PRESCRIPTION	294	/*Home Use-
With A Prescription*/		
#define HOME_USE_PAID_FOR_BY_MEDICARE	295	/*Home Use-
Paid For By Medicare*/ #define HOME USE REIMBURSED BY MEDICARE	296	/*Home Use-
Reimbursed By Medicare*/	2,0	, 110 050
#define HOME_USE_PAID_FOR_BY_MEDICAID	297	/*Home Use-
Paid For By Medicaid*/ #define HOME_USE_REIMBURSED_BY_MEDICAID	298	/*Home Use-
Reimbursed By Medicaid*/	290	/ "Home use-
#define EQUIP_WITHOUT_A_PRESCRIPTION	299	/*Equip
Without a Prescription*/		
<pre>#define EQUIP_WITH_A_PRESCRIPTION Prescription*/</pre>	300	/*Equip With a
#define EQUIP_PAID_FOR_BY_MEDICARE	301	/*Equip Paid
for by Medicare*/		
<pre>#define EQUIP_REIMBURSED_BY_MEDICARE Reimbursed by Medicare*/</pre>	302	/*Equip
#define EQUIP_PAID_FOR_BY_MEDICAID	303	/*Equip Paid
for by Medicaid*/		
<pre>#define EQUIP_REIMBURSED_BY_MEDICAID Reimbursed by Medicaid*/</pre>	304	/*Equip
#define GENERAL_WITHOUT_A_PRESCRIPTION	305	/*General-
Without a Prescription*/		,
#define GENERAL_WITH_A_PRESCRIPTION	306	/*General-With
a Prescription*/ #define GENERAL PAID_FOR_BY_MEDICARE	307	/*General-Paid
for by Medicare*/	307	, deliciai raia
#define GENERAL_REIMBURSED_BY_MEDICARE	308	/*General-
Reimbursed by Medicare*/ #define GENERAL_PAID_FOR_BY_MEDICAID	309	/*General-Paid
for by Medicaid*/	309	/ "General-Paid
#define GENERAL_REIMBURSED_BY_MEDICAID	310	/*General-
Reimbursed by Medicaid*/	211	/ * C +
<pre>#define CORRECTIVE_EYEGLASSES_WITHOUT_A_PRESCRIPTION Eyeglasses-Without a Prescription*/</pre>	311	/*Corrective
#define CORRECTIVE_EYEGLASSES_WITH_A_PRESCRIPTION	312	/*Corrective
Eyeglasses-With a Prescription*/		
<pre>#define CORRECTIVE_EYEGLASSES_PAID_FOR_BY_MEDICARE Eyeglasses-Paid for by Medicare*/</pre>	313	/*Corrective
#define CORRECTIVE_EYEGLASSES_REIMBURSED_BY_MEDICARE	314	/*Corrective
Eyeglasses-Reimbursed by Medicare*/		
#define CORRECTIVE_EYEGLASSES_PAID_FOR_BY_MEDICAID	315	/*Corrective
Eyeglasses-Paid for by Medicaid*/ #define CORRECTIVE_EYEGLASSES_REIMBURSED_BY_MEDICAID	316	/*Corrective
Eyeglasses-Reimbursed by Medicaid*/	510	,
#define CONTACT_LENSES_WITHOUT_A_PRESCRIPTION	317	/*Contact
Lenses-Without a prescription*/	21.0	/+C
<pre>#define CONTACT_LENSES_WITH_A_PRESCRIPTION Lenses-With a prescription*/</pre>	318	/*Contact
· · · · · · · · · · · · · · · · · · ·		

#define CONTACT_LENSES_PAID_FOR_BY_MEDICARE	319	/*Contact
Lenses-Paid for by Medicare*/ #define CONTACT_LENSES_REIMBURSED_BY_MEDICARE	320	/*Contact
Lenses-Reimbursed by Medicare*/ #define CONTACT_LENSES_PAID_FOR_BY_MEDICAID	321	/*Contact
Lenses-Paid for by Medicaid*/	321	/ "Contact
<pre>#define CONTACT_LENSES_REIMBURSED_BY_MEDICAID Lenses-Reimbursed by Medicaid*/</pre>	322	/*Contact
#define HEARING_AIDS_WITHOUT_A_PRESCRIPTION	323	/*Hearing
Aids-Without a Prescription*/ #define HEARING_AIDS_WITH_A_PRESCRIPTION	324	/*Hearing
Aids-With a Prescription*/		
<pre>#define HEARING_AIDS_PAID_FOR_BY_MEDICARE Aids-Paid for by Medicare*/</pre>	325	/*Hearing
<pre>#define HEARING_AIDS_REIMBURSED_BY_MEDICARE Aids-Reimbursed by Medicare*/</pre>	326	/*Hearing
#define HEARING_AIDS_PAID_FOR_BY_MEDICAID	327	/*Hearing
Aids-Paid for by Medicaid*/ #define HEARING_AIDS_REIMBURSED_BY_MEDICAID	328	/*Hearing
Aids-Reimbursed by Medicaid*/		
<pre>#define DENTAL_PROSTHESIS_WITHOUT_A_PRESCRIPTION Prosthesis-Without a prescription*/</pre>	329	/*Dental
#define DENTAL_PROSTHESIS_WITH_A_PRESCRIPTION	330	/*Dental
Prosthesis-With a prescription*/ #define DENTAL_PROSTHESIS_PAID_FOR_BY_MEDICARE	331	/*Dental
Prosthesis-Paid for by Medicare*/ #define DENTAL PROSTHESIS REIMBURSED_BY_MEDICARE	332	/*Dental
Prosthesis-Reimbursed by Medicare*/	332	/ "Delical
<pre>#define DENTAL_PROSTHESIS_PAID_FOR_BY_MEDICAID Prosthesis-Paid for by Medicaid*/</pre>	333	/*Dental
#define DENTAL_PROSTHESIS_REIMBURSED_BY_MEDICAID	334	/*Dental
Prosthesis-Reimbursed by Medicaid*/ #define LOW_EMISSION_VEHICLE_EXCEEDING_10000_LBS	335	/*Low Emission
Vehicle exceeding 10,000 lbs*/		(Arr 1 ! 7
<pre>#define VEHICLES_SOLD_TO_NATIVE_AMERICANS sold to Native Americans*/</pre>	336	/*Vehicles
<pre>#define MOTOR_VEHICLES_USING_ALTERNATIVE_FUELS Vehicles using Alternative Fuels*/</pre>	337	/*Motor
#define LOW_SPEED_ELECTRICAL_VEHICLES	338	/*Low Speed
<pre>Electrical Vehicles*/ #define SALE_TO_NON_RESIDENTS</pre>	339	/*Sale to Non-
Residents*/		
<pre>#define TRUCKS_GENERAL_RULE General Rule*/</pre>	340	/*Trucks -
#define USED_IN_INTERSTATE_COMMERCE	341	/*Used in
<pre>Interstate Commerce*/ #define TRAILER_13_16_AND_HALF_TONS_INTERSTATE_COMMERCE</pre>	342	/*Trailer 13-
16.5 Tons-Interstate Commerce*/ #define TRACTOR_EXCEEDS_16_AND_HALF_TONS_INTERSTATE_COMMERCE	E 343	/*Tractor
Exceeds 16.5 Tons-Interstate Commerce*/	. 343	/ "ITACCOI
<pre>#define USED_AS_A_CONTACT_CARRIER Contact Carrier*/</pre>	344	/*Used as a
#define TRAILER_EXCEEDS_13_TONS_CONTRACT_CARRIER	345	/*Trailer
Exceeds 13 Tons-Contract Carrier*/ #define TRACTOR_EXCEEDS_16_AND_HALF_TONS_CONTRACT_CARRIER	346	/*Tractor
Exceeds 16.5 Tons-Contract Carrier*/	2.45	/ stag = t =
<pre>#define MOTOR_BOATS Boats*/</pre>	347	/*Motor
<pre>#define AIRCRAFT #define AIRCRAFT_FOR_INTERSTATE_TRANSPORT</pre>	348 349	/*Aircraft*/ /*Aircraft for
Interstate Transport*/		,
#define BATTERIES_LESS_THAN_12_VOLTS_LEAD_BASED Less than 12 VoltsLead Based*/	350	/*Batteries
#define BATTERIES_GREATER_THAN_12_VOLTS_LEAD_BASED	351	/*Batteries
Greater than 12 VoltsLead Based*/ #define MOTORCYCLES	352	
/*Motorcycles*/		/ + 1 M = /
<pre>#define MOPEDS #define OFF_ROAD_VEHICLES</pre>	353 354	/*Mopeds*/ /*Off-Road
Vehicles*/		

#define SNOWMOBILES	355	
/*Snowmobiles*/		
#define MOTOR_OIL	356	/*Motor Oil*/
#define ANTIFREEZE	357	/*Antifreeze*/
#define BOAT_MOTOR	358	/*Boat Motor*/
#define RETAIL	359	/*Retail*/
#define CD_ROM_MICROFICHE	360	/*CD ROM
Microfiche*/		
#define DIGITAL_PRODUCT_RETAIL	361	/*Digital
Product - Retail*/		
#define DIGITAL_PRODUCT_SUBSCRIPTION	362	/*Digital
Product - Subscription*/		
#define SUBSCRIPTION_MAIL	363	/*Subscription
Mail*/		-
#define SUBSCRIPTION_DELIVERY	364	/*Subscription
Delivery*/		, 200020112
#define FOOD_SOLD_BY_A_FOOD_MANUFACTURER	365	/*Food sold by
a Food Manufacturer*/	303	/ rood bold by
	366	/*Food sold in
<pre>#define FOOD_SOLD_IN_AN_UNHEATED_STATE an unheated state*/</pre>	300	/"FOOd SOId III
	267	/ *D - 1
#define BAKERY_ITEMS	367	/*Bakery
items*/	2.50	
#define EMPLOYEE_MEALS_FULL_PRICE	368	/*Employee
MealsFull Price*/		
#define EMPLOYEE_MEALS_REDUCED_PRICE	369	/*Employee
MealsReduced Price*/		
#define EMPLOYEE_MEALS_FREE_TO_EMPLOYEES	370	/*Employee
MealsFree to Employees*/		
#define TIPS_VOLUNTARY	371	/*Tips,
Voluntary*/		
#define TIPS_MANDATORY	372	/*Tips,
Mandatory*/		
#define NON_TIP_BASED_SERVICE_CHARGE	373	/*Non-Tip
Based Service Charge*/		
#define UNIFORM_RENTAL_SERVICE	374	/*Uniform
Rental Service*/		
#define AUTOMOTIVE_RENTAL_30_DAYS_OR_LESS	375	/*Automotive
Rental30 Days or Less*/	3.3	, 1140011100110
#define AUTOMOTIVE_RENTAL_30_180_DAYS	376	/*Automotive
Rental30-180 Days*/	370	/ Adcomocive
#define AUTOMOTIVE_RENTAL_180_DAYS_TO_1_YEAR	377	/*Automotive
	311	/ "Automotive
Rental180 Days to 1 Year*/	250	/*Automotive
#define AUTOMOTIVE_RENTAL_1_YEAR_OR_GREATER	378	/ ^Automotive
Rental1 Year or Greater*/		
#define AUTOMOTIVE_RENTAL_0_30_DAYS_TAX_PAID	379	/*Automotive
Rental-0-30 Days-Tax Paid*/		
<pre>#define AUTOMOTIVE_RENTAL_31_180_DAYS_TAX_PAID</pre>	380	/*Automotive
Rental-31-180 Days-Tax Paid*/		
<pre>#define AUTOMOTIVE_RENTAL_180_DAYS_1_YEAR_TAX_PAID</pre>	381	/*Automotive
Rental-180 Days-1 Year-Tax Paid*/		
#define AUTOMOTIVE_RENTAL_GREATER_THAN_1_YEAR_TAX_PAID	382	/*Automotive
Rental-Greater than 1 Year-Tax Paid*/		
<pre>#define LEASE_OF_AUTOMOBILE_TO_BE_REGISTERED_BY_LESSEE</pre>	383	/*Lease of
Automobile to be registered by lessee*/		
#define AMUSEMENT_RELATED_PROPERTY	384	/*Amusement
Related Property*/		
#define RENTALS_INCIDENTAL_TO_SERVICE	385	/*Rentals
Incidental to Service*/		
#define MOVIE_RENTALS_PRIVATE_USE_PHYSICAL_MEDIUM	386	/*Movie
RentalsPrivate UsePhysical Medium*/	300	, 110110
#define MOVIE_RENTALS_PRIVATE_USE_DIGITAL_DOWNLOAD	387	/*Movie
RentalsPrivate UseDigital Download*/	307	, 110 110
#define MOVIE_RENTALS_AS_PART_OF_EXHIBITION_TO_PUBLIC	388	/*Movie
	300	/ MOVIE
RentalsAs part of exhibition to public*/	200	/*Morri 0
#define MOVIE_RENTALS_TO_A_TELEVISION_STATION	389	/*Movie
RentalsTo a Television Station*/	200	/ + D
#define DRY_CLEANING_CLOTHING	390	/*Dry
Cleaning-Clothing*/	201	/ 4.5
#define DRY_CLEANING_NON_CLOTHING	391	/*Dry
Cleaning-Non Clothing*/		

#define CLEANING_SERVICES	392	/*Cleaning
Services*/ #define LAUNDRY_AND_CLOTHING_CARE_OTHER_ITEMS	393	/*Laundry and
Clothing Care-Other Items*/ #define LAUNDRY_AND_CLOTHING_CARE_CLOTH_DIAPERS	394	/*Laundry and
Clothing Care-Cloth Diapers*/		-
<pre>#define LAUNDRY_AND_CLOTHING_CARE_COIN_OPERATED Clothing Care-Coin Operated*/</pre>	395	/*Laundry and
<pre>#define RUG_CLEANING_OFF_CUSTOMER_PREMISES off customer premises*/</pre>	396	/*Rug Cleaning
#define RUG_CLEANING_ON_CUSTOMER_PREMISES	397	/*Rug Cleaning
on customer premises*/ #define WASHING_MOTOR_VEHICLES	398	/*Washing
Motor Vehicles*/ #define WASHING_MOTOR_VEHICLES_COIN_OPERATED_DEVICE	399	/*Washing
Motor Vehicles-Coin Operated Device*/ #define SOLID_WASTE_DISPOSAL	400	/*Solid Waste
Disposal*/		
<pre>#define SWIMMING_POOL_SERVICES Pool Services*/</pre>	401	/*Swimming
<pre>#define HOTEL_ROOMS_LESS_THAN_28_DAYS Less than 28 Days*/</pre>	402	/*Hotel Rooms
#define HOTEL_ROOMS_28_29_DAYS	403	/*Hotel Rooms
28-29 Days*/ #define HOTEL_ROOMS_30_31_DAYS	404	/*Hotel Rooms
30-31 Days*/ #define HOTEL ROOMS 32 60 DAYS	405	/*Hotel Rooms
32-60 Days*/	406	/*Hotel Rooms
#define HOTEL_ROOMS_61_90_DAYS 61-90 Days*/		/ *HOLEI ROOMS
<pre>#define HOTEL_ROOMS_91_120_DAYS 91-120 Days*/</pre>	407	/*Hotel Rooms-
<pre>#define HOTEL_ROOMS_121_180_DAYS 121-180 Days*/</pre>	408	/*Hotel Rooms
#define HOTEL_ROOMS_GREATER_THAN_180_DAYS	409	/*Hotel Rooms
Greater than 180 Days*/ #define PHOTOGRAPHY_SERVICES_LABOR_ONLY	410	/*Photography
Services-Labor Only*/ #define PHOTOGRAPHY_SERVICES_LABOR_WITH_PICTURES	411	/*Photography
Services-Labor with pictures*/ #define NEGATIVE_TO_STANDARD_SIZED_PICTURES_LABOR_ONLY	412	/*Negative to
Standard Sized Pictures-Labor Only*/ #define NEGATIVE_TO_ENLARGEMENT_SIZED_PICTURES_LABOR_ONLY	413	/*Negative to
<pre>Enlargement Sized Pictures-Labor Only*/ #define PRINTING_SERVICES</pre>	414	/*Printing
Services*/ #define COPYING_SERVICES	415	/*Copying
Services*/		
<pre>#define CREDIT_CARD_PROCESSING_FEE_PART_OF_SALE Processing Fee-Part of Sale*/</pre>	416	/*Credit Card
<pre>#define CREDIT_CARD_PROCESSING_FEE_SEPARATE_SALE Processing Fee-Separate Sale*/</pre>	417	/*Credit Card
#define PROFESSIONAL_SERVICES	418	/*Professional
Services*/ #define INVESTIGATIVE_SERVICES	419	
/*Investigative Services*/ #define PROTECTION AND SECURITY SERVICES	420	/*Protection
and Security Services*/		
<pre>#define PEST_CONTROL Control*/</pre>	421	/*Pest
<pre>#define INTERIOR_DESIGN_SERVICES Design Services*/</pre>	422	/*Interior
#define SKIN_ALTERATION_AND_CARE	423	/*Skin
Alteration and Care*/ #define MANICURE_AND_PEDICURE	424	/*Manicure and
<pre>Pedicure*/ #define FUNERAL_SERVICES</pre>	425	/*Funeral
Services*/		/*Cogmo+;c
<pre>#define COSMETIC_MEDICAL_PROCEDURES Medical Procedures*/</pre>	426	/*Cosmetic

#define PROFESSIONAL_MEDICAL_SERVICES	427	/*Professional
Medical Services*/		
#define TITLE	428	/*Title*/
#define DATING_SERVICE	429	/*Dating
Service*/		
#define ESCROW	430	/*Escrow*/
#define MASSAGES	431	/*Massages*/
#define GIFT_WRAPPING	432	/*Gift
Wrapping*/		
#define FLORAL_SERVICES	433	/*Floral
Services*/		
#define ADVERTISING	434	
/*Advertising*/		
#define CREDIT_AND_REPORTING_SERVICES	435	/*Credit and
Reporting Services*/		
#define PERSONNEL_SERVICES	436	/*Personnel
Services*/		
#define LETTERING_SERVICES	437	/*Lettering
Services*/		
#define COLLECTION_SERVICES	438	/*Collection
Services*/		
#define BACKGROUND_MUSIC_SERVICES	439	/*Background
Music Services*/		
#define LOCKSMITH_SERVICES	440	/*Locksmith
Services*/	110	, 200712112011
#define LOBBYING	441	/*Lobbying*/
#define FLIGHT INSTRUCTION	442	/*Flight
Instruction*/	112	/ Filgit
#define INVESTMENT COUNSELING	443	/*Investment
Counseling*/	113	/ Investment
#define SERVICE_CHG_FINANCIAL_INSTITUTION	444	/*Service Chg.
Financial Institution*/	111	/ Bervice cig.
	445	/*Tow
#define TOW_SERVICE	445	/ *TOW
Service*/	4.4.6	/ # TT = = = \$ - 1 = = = = = # /
#define TAXIDERMY	446	/*Taxidermy*/
#define TELEPHONE_ANSWERING_SERVICE	447	/*Telephone
Answering Service*/	4.4.0	(47.1
#define LIMOUSINE_SERVICE	448	/*Limousine
Service*/	4.40	
#define ARCHITECTURE	449	
/*Architecture*/	450	
#define TANNING_SERVICES	450	/*Tanning
Services*/		
#define PET_GROOMING_NOT_DONE_IN_MEDICAL_SETTING	451	/*Pet
GroomingNot done in medical setting*/		
#define PET_GROOMING_DONE_IN_MEDICAL_SETTING	452	/*Pet
GroomingDone in Medical Setting*/		
#define ENGRAVING	453	/*Engraving*/
#define HOUSE_MOVING	454	/*House
Moving*/		
#define COUNSELING	455	/*Counseling*/
#define DAY_CARE_SERVICES	456	/*Day Care
Services*/		
#define INVESTMENT_COMMISSIONS	457	/*Investment
Commissions*/		
#define SALE_OF_INSURANCE	458	/*Sale of
<pre>#define SALE_OF_INSURANCE Insurance*/</pre>	458	/*Sale of
	458 459	/*Sale of /*Sporting
Insurance*/		,
Insurance*/ #define SPORTING_EVENT_WITH_FOOD_OR_PROPERTY		,
Insurance*/ #define SPORTING_EVENT_WITH_FOOD_OR_PROPERTY Event with Food or Property*/	459	/*Sporting
Insurance*/ #define SPORTING_EVENT_WITH_FOOD_OR_PROPERTY Event with Food or Property*/ #define SPORTING_EVENT_WITHOUT_FOOD_OR_PROPERTY	459	/*Sporting
Insurance*/ #define SPORTING_EVENT_WITH_FOOD_OR_PROPERTY Event with Food or Property*/ #define SPORTING_EVENT_WITHOUT_FOOD_OR_PROPERTY Event without Food or Property*/	459 460	/*Sporting
Insurance*/ #define SPORTING_EVENT_WITH_FOOD_OR_PROPERTY Event with Food or Property*/ #define SPORTING_EVENT_WITHOUT_FOOD_OR_PROPERTY Event without Food or Property*/ #define AMUSEMENT_PARK_ENTRY_WITH_FOOD_OR_PROPERTY	459 460	/*Sporting
Insurance*/ #define SPORTING_EVENT_WITH_FOOD_OR_PROPERTY Event with Food or Property*/ #define SPORTING_EVENT_WITHOUT_FOOD_OR_PROPERTY Event without Food or Property*/ #define AMUSEMENT_PARK_ENTRY_WITH_FOOD_OR_PROPERTY Park Entry with Food or Property*/	459 460 461	/*Sporting /*Sporting /*Amusement
Insurance*/ #define SPORTING_EVENT_WITH_FOOD_OR_PROPERTY Event with Food or Property*/ #define SPORTING_EVENT_WITHOUT_FOOD_OR_PROPERTY Event without Food or Property*/ #define AMUSEMENT_PARK_ENTRY_WITH_FOOD_OR_PROPERTY Park Entry with Food or Property*/ #define AMUSEMENT_PARK_ENTRY_WITHOUT_FOOD_OR_PROPERTY Park Entry without Food or Property*/	459 460 461	/*Sporting /*Sporting /*Amusement
Insurance*/ #define SPORTING_EVENT_WITH_FOOD_OR_PROPERTY Event with Food or Property*/ #define SPORTING_EVENT_WITHOUT_FOOD_OR_PROPERTY Event without Food or Property*/ #define AMUSEMENT_PARK_ENTRY_WITH_FOOD_OR_PROPERTY Park Entry with Food or Property*/ #define AMUSEMENT_PARK_ENTRY_WITHOUT_FOOD_OR_PROPERTY Park Entry without Food or Property*/ #define OTHER_AMUSEMENT_ENTRY_WITH_FOOD_OR_PROPERTY	459 460 461 462	/*Sporting /*Sporting /*Amusement /*Amusement
Insurance*/ #define SPORTING_EVENT_WITH_FOOD_OR_PROPERTY Event with Food or Property*/ #define SPORTING_EVENT_WITHOUT_FOOD_OR_PROPERTY Event without Food or Property*/ #define AMUSEMENT_PARK_ENTRY_WITH_FOOD_OR_PROPERTY Park Entry with Food or Property*/ #define AMUSEMENT_PARK_ENTRY_WITHOUT_FOOD_OR_PROPERTY Park Entry without Food or Property*/ #define OTHER_AMUSEMENT_ENTRY_WITH_FOOD_OR_PROPERTY Amusement Entry with Food or Property*/	459 460 461 462 463	/*Sporting /*Sporting /*Amusement /*Amusement /*Other
Insurance*/ #define SPORTING_EVENT_WITH_FOOD_OR_PROPERTY Event with Food or Property*/ #define SPORTING_EVENT_WITHOUT_FOOD_OR_PROPERTY Event without Food or Property*/ #define AMUSEMENT_PARK_ENTRY_WITH_FOOD_OR_PROPERTY Park Entry with Food or Property*/ #define AMUSEMENT_PARK_ENTRY_WITHOUT_FOOD_OR_PROPERTY Park Entry without Food or Property*/ #define OTHER_AMUSEMENT_ENTRY_WITH_FOOD_OR_PROPERTY Amusement Entry with Food or Property*/ #define OTHER_AMUSEMENT_ENTRY_WITHOUT_FOOD_OR_PROPERTY	459 460 461 462	/*Sporting /*Sporting /*Amusement /*Amusement
Insurance*/ #define SPORTING_EVENT_WITH_FOOD_OR_PROPERTY Event with Food or Property*/ #define SPORTING_EVENT_WITHOUT_FOOD_OR_PROPERTY Event without Food or Property*/ #define AMUSEMENT_PARK_ENTRY_WITH_FOOD_OR_PROPERTY Park Entry with Food or Property*/ #define AMUSEMENT_PARK_ENTRY_WITHOUT_FOOD_OR_PROPERTY Park Entry without Food or Property*/ #define OTHER_AMUSEMENT_ENTRY_WITH_FOOD_OR_PROPERTY Amusement Entry with Food or Property*/ #define OTHER_AMUSEMENT_ENTRY_WITHOUT_FOOD_OR_PROPERTY Amusement Entry without Food or Property*/	459 460 461 462 463 464	/*Sporting /*Sporting /*Amusement /*Amusement /*Other /*Other
Insurance*/ #define SPORTING_EVENT_WITH_FOOD_OR_PROPERTY Event with Food or Property*/ #define SPORTING_EVENT_WITHOUT_FOOD_OR_PROPERTY Event without Food or Property*/ #define AMUSEMENT_PARK_ENTRY_WITH_FOOD_OR_PROPERTY Park Entry with Food or Property*/ #define AMUSEMENT_PARK_ENTRY_WITHOUT_FOOD_OR_PROPERTY Park Entry without Food or Property*/ #define OTHER_AMUSEMENT_ENTRY_WITH_FOOD_OR_PROPERTY Amusement Entry with Food or Property*/ #define OTHER_AMUSEMENT_ENTRY_WITHOUT_FOOD_OR_PROPERTY	459 460 461 462 463	/*Sporting /*Sporting /*Amusement /*Amusement /*Other

#define ADMISSION_TO_HORSE_RACING	466	/*Admission to
<pre>Horse Racing*/ #define ADMISSION_TO_A_MOTION_PICTURE</pre>	467	/*Admission to
a Motion Picture*/	450	
<pre>#define TOURS_FOR_8_25_PEOPLE 25 people*/</pre>	468	/*Tours for 8-
<pre>#define TOURS_FOR_MORE_THAN_25_PEOPLE more than 25 people*/</pre>	469	/*Tours for
<pre>#define TOURS_FOR_8_25_PEOPLE_COMMISSIONS 25 peopleCommissions*/</pre>	470	/*Tours for 8-
#define TOURS_FOR_MORE_THAN_25_PEOPLE_COMMISSIONS more than 25 peopleCommissions*/	471	/*Tours for
#define SPORT_FITNESS_AND_RECREATION_CLUB	472	/*Sport,
Fitness and Recreation Club*/ #define REPAIR_PARTS_GENERAL_RULE	473	/*Repair Parts
<pre>- General Rule*/ #define REPAIR_AND_LABOR_COMBINED</pre>	474	/*Repair and
Labor Combined*/ #define PARTS_USED_IN_CLOTHING_OR_SHOES	475	/*Parts used
in Clothing or Shoes*/ #define PARTS_USED_IN_REPAIR_OF_COMMERCIAL_AIRPLANES	476	/*Parts used
in repair of Commercial Airplanes*/		, - 32 52 52 53
<pre>#define EXTENDED_WARRANTY_REPAIR_PARTS_USED Warranty - Repair Parts Used*/</pre>	477	/*Extended
<pre>#define EXTENDED_WARRANTY_SERVICE_REPAIRS_USED Warranty - Service Repairs Used*/</pre>	478	/*Extended
#define REPAIR_LABOR_GENERAL_RULE - General Rule*/	479	/*Repair Labor
#define REPAIRS_OF_CLOTHING	480	/*Repairs of
Clothing*/ #define REPAIR_OF_RAILROAD_ROLLING_STOCK_AND_ENGINES	481	/*Repair of
Railroad Rolling Stock and Engines*/ #define REPAIR_OF_MOTOR_VEHICLE	482	/*Repair of
Motor Vehicle*/ #define SHOE_REPAIR_AND_CLEANING	483	/*Shoe Repair
<pre>and Cleaning*/ #define AUTOMOTIVE_PAINTING</pre>	484	/*Automotive
Painting*/	405	/4- 1
<pre>#define LANDSCAPING_AND_LAWN_CARE and Lawn Care*/</pre>	485	/*Landscaping
<pre>#define SNOW_REMOVAL Removal*/</pre>	486	/*Snow
<pre>#define REPAIR_OF_COMMERCIAL_JET_AIRCRAFT Commercial Jet Aircraft*/</pre>	487	/*Repair of
#define JEWELRY_REPAIR	488	/*Jewelry
Repair*/ #define STORAGE	489	/*Storage*/
#define PARKING	490	/*Parking*/
#define CANNED_SOFTWARE	491	/*Canned
<pre>Software*/ #define MODIFIED_CHARGES</pre>	492	/*Modified
Charges*/		
<pre>#define MODIFIED_SOFTWARE Software*/</pre>	493	/*Modified
<pre>#define CUSTOM_SOFTWARE Software*/</pre>	494	/*Custom
<pre>#define CANNED_SOFTWARE_LOAD_AND_LEAVE Software-Load and Leave*/</pre>	495	/*Canned
#define CUSTOM_SOFTWARE_LOAD_AND_LEAVE Software-Load and Leave*/	496	/*Custom
#define LICENSED_SOFTWARE_LOAD_AND_LEAVE	497	/*Licensed
Software-Load and Leave*/ #define MODIFIED_SOFTWARE_LOAD_AND_LEAVE	498	/*Modified
Software-Load and Leave*/ #define DOWNLOADED_CUSTOM_SOFTWARE	499	/*Downloaded
Custom Software*/ #define DOWNLOADED_CANNED_SOFTWARE	500	/*Downloaded
Canned Software*/		
<pre>#define LICENSED_SOFTWARE_DOWNLOAD Software-Download*/</pre>	501	/*Licensed

#define MODIFIED_SOFTWARE_DOWNLOAD	502	/*Modified
Software-Download*/ #define SOFTWARE_SET_UP_OPTIONAL_CANNED	503	/*Software Set
<pre>Up-Optional-Canned*/ #define SOFTWARE_SET_UP_OPTIONAL_CUSTOM</pre>	504	/*Software Set
<pre>Up-Optional-Custom*/ #define SOFTWARE_SET_UP_OPTIONAL_DOWNLOADED</pre>	505	/*Software Set
Up-Optional-Downloaded*/ #define SOFTWARE_SET_UP_OPTIONAL_LOAD_AND_LEAVE	506	/*Software Set
Up-Optional-Load and Leave*/		
<pre>#define SOFTWARE_SET_UP_OPTIONAL_MODIFIED Up-Optional-Modified*/</pre>	507	/*Software Set
<pre>#define SOFTWARE_SET_UP_MANDATORY_CANNED Up-Mandatory-Canned*/</pre>	508	/*Software Set
#define SOFTWARE_SET_UP_MANDATORY_CUSTOM Up-Mandatory-Custom*/	509	/*Software Set
#define SOFTWARE_SET_UP_MANDATORY_DOWNLOADED	510	/*Software Set
<pre>Up-Mandatory-Downloaded*/ #define SOFTWARE_SET_UP_MANDATORY_LOAD_AND_LEAVE</pre>	511	/*Software Set
<pre>Up-Mandatory-Load and Leave*/ #define SOFTWARE_SET_UP_MANDATORY_MODIFIED</pre>	512	/*Software Set
Up-Mandatory-Modified*/ #define COMPUTER_CONSULTING_OPTIONAL_CANNED	513	/*Computer
Consulting-Optional-Canned*/		/ "Computer
<pre>#define COMPUTER_CONSULTING_MANDATORY_CANNED Consulting-Mandatory-Canned*/</pre>	514	/*Computer
#define COMPUTER_CONSULTING_OPTIONAL_CUSTOM	515	/*Computer
Consulting-Optional-Custom*/ #define COMPUTER_CONSULTING_MANDATORY_CUSTOM	516	/*Computer
Consulting-Mandatory-Custom*/ #define COMPUTER_CONSULTING_OPTIONAL_DOWNLOADED	517	/*Computer
Consulting-Optional-Downloaded*/ #define COMPUTER_CONSULTING_MANDATORY_DOWNLOADED	518	/*Computer
Consulting-Mandatory-Downloaded*/		_
<pre>#define COMPUTER_CONSULTING_OPTIONAL_LOAD_AND_LEAVE Consulting-Optional-Load and Leave*/</pre>	519	/*Computer
<pre>#define COMPUTER_CONSULTING_MANDATORY_LOAD_AND_LEAVE Consulting-Mandatory-Load and Leave*/</pre>	520	/*Computer
#define COMPUTER_CONSULTING_OPTIONAL_MODIFIED	521	/*Computer
Consulting-Optional-Modified*/ #define COMPUTER_CONSULTING_MANDATORY_MODIFIED	522	/*Computer
Consulting-Mandatory-Modified*/ #define COMPUTER_TRAINING_OPTIONAL_CANNED	523	/*Computer
Training-Optional-Canned*/ #define COMPUTER TRAINING MANDATORY CANNED	524	/*Computer
Training-Mandatory-Canned*/		_
<pre>#define COMPUTER_TRAINING_OPTIONAL_CUSTOM Training-Optional-Custom*/</pre>	525	/*Computer
<pre>#define COMPUTER_TRAINING_MANDATORY_CUSTOM Training-Mandatory-Custom*/</pre>	526	/*Computer
#define COMPUTER_TRAINING_OPTIONAL_DOWNLOADED Training-Optional-Downloaded*/	527	/*Computer
#define COMPUTER_TRAINING_MANDATORY_DOWNLOADED	528	/*Computer
Training-Mandatory-Downloaded*/ #define COMPUTER_TRAINING_OPTIONAL_LOAD_AND_LEAVE	529	/*Computer
Training-Optional-Load and Leave*/ #define COMPUTER TRAINING MANDATORY_LOAD_AND_LEAVE	530	/*Computer
Training-Mandatory-Load and Leave*/		_
<pre>#define COMPUTER_TRAINING_OPTIONAL_MODIFIED Training-Optional-Modified*/</pre>	531	/*Computer
<pre>#define COMPUTER_TRAINING_MANDATORY_MODIFIED Training-Mandatory-Modified*/</pre>	532	/*Computer
#define TIMESHARING_OFF_SITE_USE_OF_CPU_GENERAL_RULE	533	/*Timesharing
- Off-Site Use of CPU - General Rule*/ #define CPU_LOCATED_OUT_OF_STATE	534	/*CPU Located
<pre>out of State*/ #define CIGARETTES</pre>	535	/*Cigarettes*/
<pre>#define USEFUL_LIFE_BETWEEN_12_MONTHS_AND_3_YEARS</pre>	536	/*Useful Life
Between 12 Months and 3 years*/ #define USEFUL_LIFE_BETWEEN_6_12_MONTHS	537	/*Useful Life
Between 6-12 Months*/		

<pre>#define USEFUL_LIFE_EXCEEDS_3_YEARS</pre>	538	/*Useful Life
Exceeds 3 years*/ #define USEFUL_LIFE_LESS_THAN_6_MONTHS	539	/*Useful Life
Less Than 6 Months*/		/ USEIUI HITE
<pre>#define CANDY_SOLD_FOR_76_CENTS_OR_MORE For \$0.76 or More*/</pre>	540	/*Candy Sold
#define CANDY_SOLD_FOR_50_CENTS_OR_LESS	541	/*Candy Sold
For \$0.50 or Less*/ #define CANDY_BETWEEN_51_AND_75_CENTS	542	/*Candy
Between \$0.51 and \$0.75*/ #define CHEWING_GUM_SOLD_FOR_76_CENTS_OR_MORE	543	/*Chewing Gum
<pre>Sold For \$0.76 or More*/ #define CHEWING_GUM_SOLD_FOR_50_CENTS_OR_LESS</pre>	544	/*Chewing Gum
Sold For \$0.50 or Less*/ #define CHEWING GUM BETWEEN 51 AND 75 CENTS	545	/*Chewing Gum
Between \$0.51 and \$0.75*/	545	/ "Chewing Guill
<pre>#define HOT_PREPARED_FOOD Food*/</pre>	546	/*Hot Prepared
#define CARBONATED_BEVERAGES_FOR_76_CENTS_OR_MORE	547	/*Carbonated
Beverages For \$0.76 or More*/ #define CARBONATED_BEVERAGES_FOR_51_TO_75_CENTS	548	/*Carbonated
Beverages For \$0.51 to \$0.75*/ #define CARBONATED_BEVERAGES_FOR_50_CENTS_OR_LESS	549	/*Carbonated
Beverages For \$0.50 or Less*/		
<pre>#define NON_CARBONATED_BEVERAGES Carbonated Beverages*/</pre>	550	/*Non-
#define HOT_BEVERAGES	551	/*Hot
Beverages*/ #define PUBLIC_PHYSICAL_TRANSMISSION	552	/*Public-
Physical Transmission*/ #define PUBLIC_ELECTRONIC_TRANSMISSION	553	/*Public-
Electronic Transmission*/		
<pre>#define PRIVATE_PHYSICAL_TRANSMISSION Physical Transmission*/</pre>	554	/*Private-
<pre>#define PRIVATE_ELECTRONIC_TRANSMISSION Electronic Transmission*/</pre>	555	/*Private-
#define LICENSED_SOFTWARE_PHYSICAL_TRANSMISSION	556	/*Licensed
Software-Physical Transmission*/ #define INFORMATION_SYSTEMS_SERVICES	557	/*Information
Systems Services*/ #define REPORT_PHYSICAL_TRANSMISSION	558	/*Report-
Physical Transmission*/ #define REMOTE_INFORMATION_RETREIVAL	559	/*Remote
Information Retreival*/		,
<pre>#define DOWNLOAD_FROM_INTERNET from Internet*/</pre>	560	/*Download
#define DOWNLOAD_TO_PHONE Phone*/	561	/*Download to
#define INTERSTATE_LOCAL_LOOP	562	/*local loop*/
<pre>#define LEASE_FACILITIES Facilities*/</pre>	563	/*Lease-
<pre>#define LEASE_NON_FACILITIES Facilities*/</pre>	564	/*Lease-Non-
#define DEBIT_WIRELESS	565	/*Debit-
Wireless*/ #define PBX OUTBOUND CHANNEL	566	/*PBX Outbound
Channel*/		
<pre>#define PBX_OUTBOUND_CHANNEL_BUNDLE Channel Bundle*/</pre>	567	/*PBX Outbound
<pre>#define CENTRAL_OFFICE_EQUIPMENT_SALES Office Equipment-Sales*/</pre>	568	/*Central
#define CENTRAL_OFFICE_EQUIPMENT_USE	569	/*Central
Office Equipment-Use*/ #define DIRECTORY_LISTING	570	/*Directory
Listing*/	E 7 1	/*Dograling*/
#define RECYCLING #define DIGITAL_DOWNLOAD	571 572	/*Recycling*/ /*Digital
Download*/ #define RESERVED_573	573	/*Reserved_
573*/	57 <i>1</i>	/*Fixture*/
#define FIXTURE	574	/*Fixture*/

#define CONFERENCE_BRIDGE_INTRASTATE	575	/*Conference
Bridge-Intrastate*/ #define CONFERENCE_BRIDGE_INTRASTATE_W_DIAL_IN	576	/*Conference
Bridge-Intrastate w Dial In*/	576	/ "Conterence
#define ENHANCED_FEATURES	577	/*Enhanced
Features*/		
#define PBX	578	/*PBX*/
#define PBX_HIGH_CAPACITY	579	/*PBX High
Capacity*/	F00	/ + I I
<pre>#define HIGH_CAPACITY_EXTENSION Capacity Extension*/</pre>	580	/*High
#define HIGH_CAPACITY_EXTENSION_BUNDLE	581	/*High
Capacity Extension Bundle*/		,3
#define HIGH_CAPACITY_OUTBOUND_CHANNEL	582	/*High
Capacity Outbound Channel*/		
#define HIGH_CAPACITY_OUTBOUND_CHANNEL_BUNDLE	583	/*High
Capacity Outbound Channel Bundle*/ #define DIGITAL_CHANNEL_TIER	584	/*Digital
Channel Tier*/	304	/ "Digital
#define INTERSTATE_MPLS	585	/*Interstate
MPLS*/		,
<pre>#define INTRASTATE_MPLS</pre>	586	/*Intrastate
MPLS*/		
#define CENTREX_OUTBOUND_CHANNEL	587	/*Centrex
Outbound Channel*/		
#define CENTREX_OUTBOUND_CHANNEL_BUNDLE Outbound Channel Bundle*/	588	/*Centrex
#define CONFERENCE_BRIDGE_INTERSTATE	589	/*Conference
Bridge-Interstate*/	309	/ CONTENE
#define RESERVED_590	590	/*Reserved_
590*/		
#define ACCESS_CHARGE_NO_CONTRACT	591	/*Access
Charge-No Contract*/		
#define ACCESS_NUMBER_NO_CONTRACT	592	/*Access
Number-No Contract*/ #define INFO_SVCS_PRIVATE_PHYSICAL_TRANS	593	/*Info Svcs-
Private Physical Trans*/	393	/ IIIIO SVCS-
#define INFO_SVCS_PRIVATE_ELECTRONIC_TRANS	594	/*Info Svcs-
Private Electronic Trans*/		
#define DOWNLOADED_LICENSED_SOFTWARE	595	/*Downloaded
Licensed Software*/		
#define ACCESS_LOCAL_ONLY_SERVICE	596	/*Access-Local
Only Service*/ #define INFO_SVCS_PUBLIC_ELECTRONIC_TRANS	597	/*Info Svcs-
Public Electronic Trans*/	597	/"IIIO SVCS-
#define INFO_SVCS_PUBLIC_PHYSICAL_TRANS	598	/*Info Svcs-
Public Physical Trans*/		,
#define E_MAIL_HOSTING_SERVICE	599	/*E-mail
Hosting Service*/		
#define REAL_PROPERTY_RENTAL	600	/*Real
Property Rental*/	601	/*Reserved -
<pre>#define RESERVED_601 601*/</pre>	901	/ *Reserved -
#define SVCS_PROFESSIONAL	602	/*Services-
Professional*/		, 552,1255
<pre>#define ONLINE_SERVICES</pre>	603	/*Online
Services*/		
#define LEASE_FACILITIES_LOCAL_SERVICE	604	/*Lease-
Facilities-Local Service*/	605	/ 4. T 3. T
<pre>#define LEASE_NON_FACILITIES_LOCAL_SVC Facilities-Local Svc*/</pre>	605	/*Lease-Non-
#define RESERVED 606	606	/*Reserved
606*/		, 110001 VOU_
#define RESERVED_607	607	/*Reserved_
607*/		
#define CONFERENCE_BRIDGE_INTERSTATE_W_DIAL_IN	608	/*Conference
Bridge Interstate w Dial In*/	600	/+ G '
#define STREAMING_VIDEO	609	/*Streaming
Video*/ #define EARLY_TERMINATION_FEES	610	/*Early
Termination Fees*/	010	, ватту

#define RESERVED_611	611	/*Reserved-
611*/ #define FCC_SUBSCRIBER_LINE_FEE_MULTI_LINE	612	/*FCC
Subscriber Line Fee Multi line*/ #define FCC_SUBSCRIBER_LINE_FEE_MULTI_LINE_BUNDLE	613	/*FCC
Subscriber Line Fee Multi Line Bundle*/	013	/ FCC
<pre>#define TELECOM_EQUIPMENT_RENTAL Equipment Rental*/</pre>	614	/*Telecom
#define EQUIPMENT_SALES	615	/*Equipment
Sales*/ #define HURRICANE_SUPPLIES	616	/*Hurricane
Supplies*/ #define SCHOOL_SUPPLIES	617	/*School
Supplies*/ #define APPLIANCES_ENERGY_STAR	618	/*Appliances-
Energy Star*/		
<pre>#define HUNTING_SUPPLIES Supplies*/</pre>	619	/*Hunting
#define TAKE_AND_BAKE_PIZZA Bake Pizza*/	620	/*Take and
#define BULK_ITEMS	621	/*Bulk Items*/
#define TEXT_MESSAGE	622	/*Text
Message*/		
<pre>#define CENTREX_INVOICE Invoice*/</pre>	623	/*Centrex
#define WIRELESS_SERVICE Service*/	624	/*Wireless
#define CUSTOMER_PREMISE_EQUIP_RENTAL	625	/*Customer
Premise Equip Rental*/ #define CUSTOMER_PREMISE_EQUIP_RENTAL	625	/*Customer
Premise Equip Rental*/ #define RESERVED_626_	626	/*Reserved-626
*/	627	
<pre>#define INTERNET_ACCESS Access*/</pre>	627	/*Internet
<pre>#define RESERVED_628_ */</pre>	628	/*Reserved-628
<pre>#define MESSAGING_SERVICES Services*/</pre>	629	/*Messaging
<pre>#define PRIVATE_LINE_10_PCT_RULE</pre>	630	/*Private Line
(10% Rule)*/ #define DATA_10_PCT_RULE	631	/*Data (10%
Rule)*/ #define SERVICE_CONTRACTS	632	/*Service
Contracts*/ #define DOWNLOADED_VIDEO	633	/*Downloaded
Video*/	033	/ "DownToaded
<pre>#define SERV_TYPE_RESERVED_634</pre>	634	/*Reserved*/
#define TOLL_FREE_NUMBER	635	/*Toll-Free
Number*/ #define REMOTELY_ACCESSED_SOFTWARE	636	/*Remotely
Accessed Software*/	030	/ Removery
<pre>#define REMOTE_ACCESS_OF_SOFTWARE Access of Software*/</pre>	637	/*Remote
<pre>#define SECURITY_MONITORING_SERVICES</pre>	638	/*Security
Monitoring Services*/ #define STREAMING_INTERNET_VIDEO	639	/*Streaming
<pre>Internet Video*/ #define RESTOCKING_FEE</pre>	640	/*Restocking
Fee*/		_
<pre>#define FCC_SUBSCRIBER_LINE_CHARGE_CENTREX Subscriber Line Charge Centrex*/</pre>	641	/*FCC
<pre>#define FCC_SUBSCRIBER_LINE_CHARGE_CENTREX_BUNDLE Subscriber Line Charge Centrex Bundle*/</pre>	642	/*FCC
#define DEBIT_WIRELESS_INDIRECT_NON_CARRIER_SALE	643	/*Debit-
Wireless (Indirect Non-Carrier Sale)*/ #define INFO_SVCS_PUB_ELEC_TRANS_FIN_AND_SECURITIES	644	/*Info Svcs-
Pub Elec Trans (Fin and Securities)*/ #define PUBLIC_ELEC_TRANS_FINANCIAL_AND_SECURITIES	645	/*Public-Elec
Trans (Financial and Securities)*/	0.17	/ rubiic-Fiec

```
#define INFORMATION_RETRIEVAL_PROVIDER_DATA
                                                                646
                                                                                     /*Information
Retrieval (Provider Data)*/
#define REMOTE_INFORMATION_RETRIEVAL_PROVIDER_DATA
                                                                647
                                                                                     /*Remote
Information Retrieval (Provider Data)*/
#define INTRASTATE_WITH_FCC_JURISDICTION
                                                                648
                                                                                     /*Intrastate
with FCC Jurisdiction*/
#define INTERSTATE_WITHOUT_FCC_JURISDICTION
                                                                649
                                                                                     /*Interstate
without FCC Jurisdiction*/
#define MPLS_INTRASTATE_ACTIVATION
                                                                650
                                                                                     /*MPLS
Intrastate Activation*/
#define MPLS_INSTALL
                                                                651
                                                                                     /*MPLS
Install*/
#define MPLS_SERVICE
                                                                652
                                                                                     /*MPT.S
Service*/
#define MPLS_INTERSTATE_ACTIVATION
                                                                653
                                                                                     /*MPLS
Interstate Activation*/
#define EQUIPMENT_RENTAL_BASIC
                                                                654
                                                                                     /*Equipment
Rental Basic*/
#define LOCKED_CELL_PHONE
                                                                655
                                                                                     /*Locked Cell
Phone*/
#define SERVICE_INDIA_INTERSTATE_SUPPLY
                                                                656
                                                                                     /*Service -
India Interstate Supply*/
#define SERVICE_INDIA_INTRASTATE_SUPPLY
                                                                                     /*Service -
                                                                657
India Intrastate Supply*/
#define PRODUCT_INDIA_INTERSTATE_SUPPLY
                                                                658
                                                                                     /*Product -
India Interstate Supply*/
#define PRODUCT_INDIA_INTRASTATE_SUPPLY
                                                                659
                                                                                     /*Product -
India Intrastate Supply*/
#define NO_RETRIEVAL_DISASTER_RECOVERY
                                                                660
                                                                                     /*No
Retrieval-Disaster Recovery*/
```

```
/* Deprecated constants */
#define N800
                                                             TOLL_FREE
#define LOCAL_LOOP
                                                             ACCESS_CHARGE
#define CABLE_TELEVISION_BASIC_SERVICE
                                                            ACCESS CHARGE
#define LOCAL_ACTIVATION
                                                             INSTALL
#define LOCAL_INSTALL
                                                             TNSTALL
#define DIR_AD
                                                            DIRECTORY_ADS
#define NUMBER_PORTABILITY_RECOVERY
                                                             FCC_SUBSCRIBER_LINE_FEE
#define CENTREX_EXTENSION
                                                             CENTREX_DID_EXTENSION
#define TRUNK
                                                             CENTREX TRUNK
#define LICENSE_SOFTWARE
                                                             LICENSED_SOFTWARE
#define BEVERAGE_ABOVE_7_PCTCONTENT_BY_WEIGHT
BEVERAGE_ABOVE_7_PCT_CONTENT_BY_WEIGHT
#define EDUCATIONAL_COLLEGE_OR_TRADE_SCHOOL
                                                             EDUCATIONAL_COLLEGE_AND_TRADE_SCHOOL
#define TOOTHPASTE
                                                             TOOTHPASTE_TOOTHBRUSH_DENTAL_FLOSS
#define LOW_EMISSION_VEHICLE_EXCEEDING_10
LOW_EMISSION_VEHICLE_EXCEEDING_10000_LBS
                                                            TIPS_VOLUNTARY
#define TIPS
#define SPORT
                                                             SPORT_FITNESS_AND_RECREATION_CLUB
#define INFORMATION_SYSTEM_SERVICES
                                                             INFORMATION_SYSTEMS_SERVICES
#define LEASE_FACILITIES_LOCAL_SVC
                                                             LEASE_FACILITIES_LOCAL_SERVICE
#define CONFERENCE_BRIDGE_INTERSTATE_W_DIALIN
CONFERENCE_BRIDGE_INTERSTATE_W_DIAL_IN
#ifdef __cplusplus
#endif
```

#endif /* _inc_EZTaxServTypeDefine_ */

```
EZTaxStateType.h
#ifndef _inc_EZTaxStateTypeDefine_
#define _inc_EZTaxStateTypeDefine_
#ifdef __cplusplus
extern "C" {
#endif
/* Define state types */
#define NO_STATE
                                                                                   /**/
                                                              Ω
#define Alabama
                                                                                   /*Alabama*/
#define Alaska
                                                                                   /*Alaska*/
#define Arizona
                                                                                   /*Arizona*/
#define Arkansas
                                                              4
                                                                                   /*Arkansas*/
#define California
                                                                                   /*California*/
                                                              5
#define Colorado
                                                                                   /*Colorado*/
#define Connecticut
                                                                                   /*Connecticut*/
#define Delaware
                                                              8
                                                                                   /*Delaware*/
#define Washington_DC
                                                                                   /*Washington,
                                                              9
D.C.*/
#define Florida
                                                              10
                                                                                   /*Florida*/
#define Georgia
                                                              11
                                                                                   /*Georgia*/
#define Hawaii
                                                                                   /*Hawaii*/
                                                              12
                                                                                   /*Idaho*/
#define Idaho
                                                              12
#define Illinois
                                                              14
                                                                                   /*Illinois*/
#define Indiana
                                                                                   /*Indiana*/
                                                              15
#define Iowa
                                                              16
                                                                                   /*Iowa*/
#define Kansas
                                                              17
                                                                                   /*Kansas*/
#define Kentucky
                                                              18
                                                                                   /*Kentucky*/
#define Louisiana
                                                              19
                                                                                   /*Louisiana*/
#define Maine
                                                              20
                                                                                   /*Maine*/
#define Maryland
                                                              21
                                                                                   /*Maryland*/
                                                                                   /*Massachusetts*/
#define Massachusetts
                                                              22
#define Michigan
                                                              23
                                                                                   /*Michigan*/
#define Minnesota
                                                              24
                                                                                   /*Minnesota*/
#define Mississippi
                                                              25
                                                                                   /*Mississippi*/
#define Missouri
                                                                                   /*Missouri*/
                                                              26
#define Montana
                                                              27
                                                                                   /*Montana*/
#define Nebraska
                                                              28
                                                                                   /*Nebraska*/
#define Nevada
                                                                                   /*Nevada*/
                                                              29
#define New_Hampshire
                                                              30
                                                                                   /*New Hampshire*/
#define New_Jersey
                                                                                   /*New Jersey*/
                                                              31
#define New_Mexico
                                                              32
                                                                                   /*New Mexico*/
#define New York
                                                              33
                                                                                   /*New York*/
                                                                                   /*North
#define North_Carolina
                                                              34
Carolina*/
#define North_Dakota
                                                              35
                                                                                   /*North Dakota*/
                                                                                   /*Ohio*/
#define Ohio
                                                              36
#define Oklahoma
                                                              37
                                                                                   /*Oklahoma*/
#define Oregon
                                                              38
                                                                                   /*Oregon*/
#define Pennsylvania
                                                              39
                                                                                   /*Pennsvlvania*/
#define Rhode_Island
                                                                                   /*Rhode Island*/
                                                              40
#define South_Carolina
                                                              41
                                                                                   /*South
Carolina*/
#define South_Dakota
                                                              42
                                                                                   /*South Dakota*/
#define Tennessee
                                                                                   /*Tennessee*/
                                                              43
#define Texas
                                                              44
                                                                                   /*Texas*/
#define Utah
                                                              45
                                                                                   /*Utah*/
#define Vermont
                                                              46
                                                                                   /*Vermont*/
#define Virginia
                                                              47
                                                                                   /*Virginia*/
#define Washington
                                                                                   /*Washington*/
                                                              48
#define West_Virginia
                                                              49
                                                                                   /*West Virginia*/
                                                                                   /*Wisconsin*/
#define Wisconsin
                                                              50
#define Wyoming
                                                              51
                                                                                   /*Wyoming*/
                                                                                   /*Alberta*/
#define Alberta
                                                              52
#define Anguar
                                                              53
                                                                                   /*Anguar*/
#define British_Columbia
                                                              54
                                                                                   /*British
Columbia*/
#define Guam
                                                                                   /*Guam*/
```

#dofine Vener	T.C.	/+17+/
#define Koror	56	/*Koror*/
#define Kosrae	57	/*Kosrae*/
#define Manitoba	58	/*Manitoba*/
#define Manua_Islands	59	/*Manua Islands*/
#define New_Brunswick	60	/*New Brunswick*/
#define Newfoundland	61	/*Newfoundland*/
#define Northwest Territories	62	/*Northwest
Territories*/		
#define Nova_Scotia	63	/*Nova Scotia*/
#define Ontario	64	/*Ontario*/
#define Peleliu	65	
		/*Peleliu*/
#define Pohnpei	66	/*Pohnpei*/
#define Prince_Edward_Island	67	/*Prince Edward
Island*/		
#define Puerto_Rico	68	/*Puerto Rico*/
#define Quebec	69	/*Quebec*/
#define Ralik_Chain	70	/*Ralik Chain*/
#define Ratak_Chain	71	/*Ratak Chain*/
#define Rose_Island	72	/*Rose Island*/
#define Rota	73	/*Rota*/
#define Saint_Croix	74	/*Saint Croix*/
#define Saint_John	75	/*Saint John*/
#define Saint_Thomas	76	/*Saint Thomas*/
#define Saipan	77	/*Saipan*/
#define Saskatchewan	78	/*Saskatchewan*/
#define Swains Island	79	/*Swains Island*/
-		
#define Tinian	80	/*Tinian*/
#define Truk	81	/*Truk*/
#define Tutulia_Island	82	/*Tutulia
Island*/		
#define Yap	83	/*Yap*/
#define Yukon_Territory	84	/*Yukon
Territory*/	0 1	, 1411011
#define Dodecanese	85	/*Dodecanese*/
#define Lesvos	86	/*Lesvos*/
#define Chios	87	/*Chios*/
#define Samos	88	/*Samos*/
#define Thassos	89	/*Thassos*/
#define Samothraki	90	/*Samothraki*/
#define Cyclades	91	/*Cyclades*/
#define North_Sporades	92	/*North
	92	/ "NOI CII
Sporades*/	2.2	(+0) + /
#define Skyros	93	/*Skyros*/
#define Nunavut	94	/*Nunavut*/
#define Bermuda	95	/*Bermuda*/
<pre>#define American_Samoa</pre>	96	/*American
Samoa*/		
#define Fed_St_of_Micronesia	97	/*Fed St of
Micronesia*/	<i>5.</i>	, 100 00 01
	0.8	/*Marshall
#define Marshall_Islands	98	/ "Marsharr
Islands*/		
#define Northern_Mariana_Islands	99	/*Northern
Mariana Islands*/		
#define Palau	100	/*Palau*/
<pre>#define US_Virgin_Islands</pre>	101	/*US Virgin
Islands*/		
#define Sao_Paulo	102	/*Sao Paulo*/
#define Rio de Janeiro		/*Rio de
	103	/*RIO de
Janeiro*/		
#define Distrito_Federal	104	/*Distrito
Federal*/		
#define Sergipe		/*Sergipe*/
	105	/ pergibe /
#define Bahia	105 106	/*Bahia*/
	106	/*Bahia*/
#define Amapa	106 107	/*Bahia*/ /*Amapa*/
#define Amapa #define Acre	106 107 108	/*Bahia*/ /*Amapa*/ /*Acre*/
#define Amapa #define Acre #define Alagoas	106 107 108 109	/*Bahia*/ /*Amapa*/ /*Acre*/ /*Alagoas*/
#define Amapa #define Acre #define Alagoas #define Amazonas	106 107 108 109 110	/*Bahia*/ /*Amapa*/ /*Acre*/ /*Alagoas*/ /*Amazonas*/
#define Amapa #define Acre #define Alagoas	106 107 108 109	/*Bahia*/ /*Amapa*/ /*Acre*/ /*Alagoas*/
#define Amapa #define Acre #define Alagoas #define Amazonas	106 107 108 109 110	/*Bahia*/ /*Amapa*/ /*Acre*/ /*Alagoas*/ /*Amazonas*/
#define Amapa #define Acre #define Alagoas #define Amazonas #define Ceara	106 107 108 109 110 111	/*Bahia*/ /*Amapa*/ /*Acre*/ /*Alagoas*/ /*Amazonas*/ /*Ceara*/
#define Amapa #define Acre #define Alagoas #define Amazonas #define Ceara #define Espirito_Santo	106 107 108 109 110 111	/*Bahia*/ /*Amapa*/ /*Acre*/ /*Alagoas*/ /*Amazonas*/ /*Ceara*/

```
#define Maranhao
                                                              114
                                                                                   /*Maranhao*/
#define Mato Grosso
                                                              115
                                                                                   /*Mato Grosso*/
#define Mato_Grosso_do_Sul
                                                              116
                                                                                   /*Mato Grosso do
#define Minas_Gerais
                                                                                   /*Minas Gerais*/
                                                              117
#define Para
                                                                                   /*Para*/
                                                              118
#define Paraiba
                                                              119
                                                                                   /*Paraiba*/
#define Parana
                                                              120
                                                                                   /*Parana*/
#define Pernambuco
                                                              121
                                                                                   /*Pernambuco*/
                                                                                   /*Piaui*/
#define Piaui
                                                              122
                                                                                   /*Rio Grande do
#define Rio_Grande_do_Norte
                                                              123
Norte*/
#define Rio_Grande_do_Sul
                                                              124
                                                                                   /*Rio Grande do
Sul*/
#define Rondonia
                                                              125
                                                                                   /*Rondonia*/
#define Roraima
                                                              126
                                                                                   /*Roraima*/
#define Santa_Catarina
                                                                                   /*Santa
                                                              127
Catarina*/
#define Tocantins
                                                              128
                                                                                   /*Tocantins*/
#define Andhra_Pradesh
                                                              129
                                                                                   /*Andhra
Pradesh*/
#define Arunachal_Pradesh
                                                              130
                                                                                   /*Arunachal
Pradesh*/
#define Assam
                                                              131
                                                                                   /*Assam*/
#define Bihar
                                                              132
                                                                                   /*Bihar*/
#define Chhattisgarh
                                                              133
                                                                                   /*Chhattisgarh*/
#define Goa
                                                              134
                                                                                   /*Goa*/
#define Gujarat
                                                                                   /*Gujarat*/
                                                              135
#define Haryana
                                                              136
                                                                                   /*Haryana*/
#define Himachal_Pradesh
                                                              137
                                                                                   /*Himachal
Pradesh*/
#define Jammu_and_Kashmir
                                                              138
                                                                                   /*Jammu and
Kashmir*/
#define Jharkhand
                                                              139
                                                                                   /*Jharkhand*/
#define Karnataka
                                                              140
                                                                                   /*Karnataka*/
#define Kerala
                                                              141
                                                                                   /*Kerala*/
#define Madhya_Pradesh
                                                                                   /*Madhya
                                                              142
Pradesh*/
#define Maharashtra
                                                              143
                                                                                   /*Maharashtra*/
#define Manipur
                                                              144
                                                                                   /*Manipur*/
#define Meghalaya
                                                              145
                                                                                   /*Meghalaya*/
#define Mizoram
                                                                                   /*Mizoram*/
                                                              146
#define Nagaland
                                                              147
                                                                                   /*Nagaland*/
#define Odisha
                                                                                   /*Odisha*/
                                                              148
#define Punjab
                                                              149
                                                                                   /*Punjab*/
#define Rajasthan
                                                              150
                                                                                   /*Rajasthan*/
#define Sikkim
                                                              151
                                                                                   /*Sikkim*/
#define Tamil_Nadu
                                                              152
                                                                                   /*Tamil Nadu*/
#define Telangana
                                                                                   /*Telangana*/
                                                              153
#define Tripura
                                                              154
                                                                                   /*Tripura*/
#define Uttar_Pradesh
                                                                                   /*Uttar Pradesh*/
                                                              155
#define Uttarakhand
                                                              156
                                                                                   /*Uttarakhand*/
#define West_Bengal
                                                                                   /*West Bengal*/
                                                              157
#define Andaman_and_Nicobar
                                                              158
                                                                                   /*Andaman and
Nicobar*/
#define Chandigarh
                                                              159
                                                                                   /*Chandigarh*/
#define Dadra_Nagar_Haveli
                                                              160
                                                                                   /*Dadra Nagar
Haveli*/
#define Daman_and_Diu
                                                              161
                                                                                   /*Daman and Diu*/
#define Delhi
                                                              162
                                                                                   /*Delhi*/
#define Lakshadweep
                                                              163
                                                                                   /*Lakshadweep*/
#define Puducherry
                                                              164
                                                                                   /*Puducherry*/
/* Deprecated state type constants */
#define Distric_of_Columbia
                                                 Washington_DC
#ifdef __cplusplus
#endif
```

```
#endif /* _inc_EZTaxStateTypeDefine_ */
EZTaxCountryType.h
#ifndef _inc_EZTaxCountryTypeDefine_
#define _inc_EZTaxCountryTypeDefine_
#ifdef __cplusplus
extern "C" {
#endif
/* Foreign countries apply to Telecom transactions only */
/* Define Country Ids */
#define UNITED_STATES_OF_AMERICA
                                                              0
                                                                                   /*United States
Of America*/
#define ARGENTINA
                                                              2
                                                                                   /*Argentina*/
#define AUSTRALIA
                                                                                   /*Australia*/
                                                              3
#define AUSTRIA
                                                                                   /*Austria*/
#define AZERBAIJAN
                                                              5
                                                                                   /*Azerbaijan*/
#define BARBADOS
                                                              6
                                                                                   /*Barbados*/
#define BELGIUM
                                                                                   /*Belgium*/
#define BOLIVIA
                                                              Q
                                                                                   /*Bolivia*/
#define BULGARIA
                                                              9
                                                                                   /*Bulgaria*/
#define CAMBODIA
                                                                                   /*Cambodia*/
                                                              10
#define CANADA
                                                              11
                                                                                   /*Canada*/
#define CHINA
                                                              12
                                                                                   /*China*/
#define COLOMBIA
                                                              13
                                                                                   /*Colombia*/
#define COSTA RICA
                                                              14
                                                                                   /*Costa Rica*/
#define CROATIA
                                                              15
                                                                                   /*Croatia*/
#define CYPRUS
                                                              16
                                                                                   /*Cyprus*/
#define CZECH_REPUBLIC
                                                                                   /*Czech
                                                              17
Republic*/
#define DENMARK
                                                              18
                                                                                   /*Denmark*/
#define ECUADOR
                                                              19
                                                                                   /*Ecuador*/
                                                                                   /*Estonia*/
#define ESTONIA
                                                              20
#define FIJI
                                                                                   /*Fiji*/
                                                              2.2
#define FINLAND
                                                              23
                                                                                   /*Finland*/
#define FRANCE
                                                                                   /*France*/
                                                              2.4
#define GERMANY
                                                              25
                                                                                   /*Germany*/
#define GHANA
                                                                                   /*Ghana*/
                                                              26
#define ZAMBIA
                                                              27
                                                                                   /*Zambia*/
#define HONDURAS
                                                              29
                                                                                   /*Honduras*/
#define HUNGARY
                                                              30
                                                                                   /*Hungary*/
#define INDONESIA
                                                              31
                                                                                   /*Indonesia*/
#define IRELAND
                                                                                   /*Ireland*/
                                                              32
#define ITALY
                                                              33
                                                                                   /*Italy*/
#define JAPAN
                                                                                   /*Japan*/
                                                              34
#define KENYA
                                                              35
                                                                                   /*Kenya*/
#define LATVIA
                                                              36
                                                                                   /*Latvia*/
#define LITHUANIA
                                                                                   /*Lithuania*/
                                                              37
#define LUXEMBOURG
                                                              38
                                                                                   /*Luxembourg*/
                                                                                   /*Mauritius*/
#define MAURITIUS
                                                              40
#define MEXICO
                                                                                   /*Mexico*/
                                                              41
#define MOROCCO
                                                                                   /*Morocco*/
                                                              42
#define NAMIBIA
                                                              43
                                                                                   /*Namibia*/
#define NETHERLANDS
                                                              44
                                                                                   /*Netherlands*/
#define NEW_ZEALAND
                                                              45
                                                                                   /*New Zealand*/
#define NORWAY
                                                              47
                                                                                   /*Norway*/
#define PANAMA
                                                                                   /*Panama*/
                                                              49
#define PAPUA_NEW_GUINEA
                                                              50
                                                                                   /*Papua New
Guinea*/
#define PERU
                                                              51
                                                                                   /*Peru*/
#define POLAND
                                                              52
                                                                                   /*Poland*/
#define PORTUGAL
                                                              53
                                                                                   /*Portugal*/
#define ROMANIA
                                                              54
                                                                                   /*Romania*/
#define RUSSIA
                                                              56
                                                                                   /*Russia*/
#define SINGAPORE
                                                                                   /*Singapore*/
                                                              57
```

```
/*Slovenia*/
#define SLOVENIA
                                                              58
#define SOUTH AFRICA
                                                              59
                                                                                   /*South Africa*/
#define SPAIN
                                                                                   /*Spain*/
                                                              60
#define SWEDEN
                                                              61
                                                                                   /*Sweden*/
#define SWITZERLAND
                                                                                   /*Switzerland*/
                                                              62
#define TAIWAN
                                                              63
                                                                                   /*Taiwan*/
#define TANZANIA
                                                              64
                                                                                   /*Tanzania*/
#define THAILAND
                                                              65
                                                                                   /*Thailand*/
#define TRINIDAD_AND_TOBAGO
                                                              66
                                                                                   /*Trinidad And
Tobago*/
#define TURKEY
                                                              67
                                                                                   /*Turkey*/
#define UGANDA
                                                              68
                                                                                   /*Uganda*/
#define UKRAINE
                                                              69
                                                                                   /*Ukraine*/
#define UNITED_KINGDOM
                                                                                   /*United
                                                              70
Kingdom*/
#define URUGUAY
                                                              71
                                                                                   /*Uruquav*/
#define VENEZUELA
                                                              73
                                                                                   /*Venezuela*/
#define VIETNAM
                                                              74
                                                                                   /*Vietnam*/
                                                                                   /*Greece*/
#define GREECE
                                                              75
#define ICELAND
                                                              76
                                                                                   /*Iceland*/
#define INDIA
                                                              77
                                                                                   /*India*/
#define NIGERIA
                                                              78
                                                                                   /*Nigeria*/
#define SOUTH_KOREA
                                                              79
                                                                                   /*South Korea*/
#define SLOVAK_REPUBLIC
                                                              80
                                                                                   /*Slovak
Republic*/
#define BERMUDA
                                                              я1
                                                                                   /*Bermuda*/
#define UNSUPPORTED_COUNTRY
                                                              82
                                                                                   /*Unsupported
Country*/
#define REPUBLIC_OF_MALTA
                                                              83
                                                                                   /*Republic Of
Malta*/
#define MALAYSIA
                                                              84
                                                                                   /*Malaysia*/
#define REUNION ISLAND
                                                              85
                                                                                   /*Reunion
Island*/
#define ST_KITTS_AND_NEVIS
                                                              86
                                                                                   /*St Kitts And
Newis*/
#define ANTIGUA
                                                              87
                                                                                   /*Antiqua*/
#define BELIZE
                                                              88
                                                                                   /*Belize*/
#define DOMINICA
                                                              89
                                                                                   /*Dominica*/
#define DOMINICAN REPUBLIC
                                                                                   /*Dominican
                                                              90
Republic*/
#define EL_SALVADOR
                                                              91
                                                                                   /*El Salvador*/
#define GRENADA
                                                                                   /*Grenada*/
                                                              92
#define GUATEMALA
                                                              93
                                                                                   /*Guatemala*/
                                                                                   /*Guyana*/
#define GUYANA
                                                              94
#define JAMAICA
                                                              95
                                                                                   /*Jamaica*/
#define NICARAGUA
                                                              96
                                                                                   /*Nicaraqua*/
#define ST_VINCENT
                                                              97
                                                                                   /*St Vincent*/
#define CHILE
                                                              98
                                                                                   /*Chile*/
#define PHILIPPINES
                                                              99
                                                                                   /*Philippines*/
#define ISRAEL
                                                              100
                                                                                   /*Israel*/
#define BOSNIA_AND_HERZEGOVINA
                                                              101
                                                                                   /*Bosnia And
Herzegovina*/
#define LEBANON
                                                                                   /*Lebanon*/
                                                                                   /*Serbia*/
#define SERBIA
                                                              103
#define EGYPT
                                                              104
                                                                                   /*Egypt*/
#define BAHAMAS
                                                              105
                                                                                   /*Bahamas*/
#define BRAZIL
                                                              106
                                                                                   /*Brazil*/
#define SENEGAL
                                                              107
                                                                                   /*Senegal*/
#define BAHRAIN
                                                              108
                                                                                   /*Bahrain*/
#define KUWAIT
                                                              109
                                                                                   /*Kuwait*/
#define OMAN
                                                              110
                                                                                   /*Oman*/
#define QATAR
                                                              111
                                                                                   /*Qatar*/
                                                                                   /*Saudi Arabia*/
#define SAUDI_ARABIA
                                                              112
#define UNITED_ARAB_EMIRATES
                                                                                   /*United Arab
                                                              113
Emirates*/
#define USA
                                                              0
                                                                                   /*United States
Of America*/
#define ARG
                                                              2
                                                                                   /*Argentina*/
#define AUS
                                                                                   /*Australia*/
```

#define AUT	4	/*Austria*/
#define AZE	5	/*Azerbaijan*/
#define BRB	6	/*Barbados*/
#define BEL	7	/*Belgium*/
#define BOL	8	/*Bolivia*/
#define BGR	9	/*Bulgaria*/
#define KHM	10	/*Cambodia*/
Hactine CAN	11	/*Canada*/
#define CAN		
#define CHN	12	/*China*/
#define COL	13	/*Colombia*/
#define CRI	14	/*Costa Rica*/
#define HRV	15	/*Croatia*/
#define CYP	16	/*Cyprus*/
#define CZE	17	/*Czech
Republic*/		
#define DNK	18	/*Denmark*/
#define ECU	19	/*Ecuador*/
#define EST	20	/*Estonia*/
#define FJI	22	/*Fiji*/
#define FIN	23	/*Finland*/
#define FRA	24	/*France*/
#define DEU	25	/*Germany*/
#define GHA	26	/*Ghana*/
#define ZMB	27	/*Zambia*/
		,
#define HND	29	/*Honduras*/
#define HUN	30	/*Hungary*/
#define IDN	31	/*Indonesia*/
#define IRL	32	/*Ireland*/
		/"ITETATIO"/
#define ITA	33	/*Italy*/
		_
#define JPN	34	/*Japan*/
#define KEN	35	/*Kenya*/
#define LVA	36	/*Latvia*/
#define LTU	37	/*Lithuania*/
#define LUX	38	/*Luxembourg*/
#define MUS	40	/*Mauritius*/
#define MEX	41	/*Mexico*/
#define MAR	42	/*Morocco*/
#define NAM	43	/*Namibia*/
#define NLD	44	/*Netherlands*/
#define NZL	45	/*New Zealand*/
#define NOR	47	/*Norway*/
#define PAN	49	/*Panama*/
#define PNG	50	/*Papua New
Guinea*/		
#define PER	51	/*Peru*/
#define POL	52	/*Poland*/
#define PRT	53	/*Portugal*/
#define ROU	54	/*Romania*/
#define RUS	56	/*Russia*/
#define SGP	57	/*Singapore*/
#define SVN	58	/*Slovenia*/
#define ZAF	59	/*South Africa*/
#define ESP	60	/*Spain*/
#define SWE		/*Sweden*/
	61	
#define CHE	62	/*Switzerland*/
	02	
#define TWN		
#define TZA	63	/*Taiwan*/
	63	
#define THA	63 64	/*Tanzania*/
	63	
#define TTO	63 64 65	/*Tanzania*/ /*Thailand*/
#define TTO	63 64	/*Tanzania*/
#define TTO Tobago*/	63 64 65	/*Tanzania*/ /*Thailand*/
Tobago*/	63 64 65 66	/*Tanzania*/ /*Thailand*/ /*Trinidad And
Tobago*/ #define TUR	63 64 65 66	/*Tanzania*/ /*Thailand*/ /*Trinidad And /*Turkey*/
Tobago*/	63 64 65 66	/*Tanzania*/ /*Thailand*/ /*Trinidad And /*Turkey*/
Tobago*/ #define TUR #define UGA	63 64 65 66 67 68	/*Tanzania*/ /*Thailand*/ /*Trinidad And /*Turkey*/ /*Uganda*/
Tobago*/ #define TUR	63 64 65 66	/*Tanzania*/ /*Thailand*/ /*Trinidad And /*Turkey*/ /*Uganda*/ /*Ukraine*/
Tobago*/ #define TUR #define UGA #define UKR	63 64 65 66 67 68 69	/*Tanzania*/ /*Thailand*/ /*Trinidad And /*Turkey*/ /*Uganda*/ /*Ukraine*/
Tobago*/ #define TUR #define UGA #define UKR #define GBR	63 64 65 66 67 68	/*Tanzania*/ /*Thailand*/ /*Trinidad And /*Turkey*/ /*Uganda*/
Tobago*/ #define TUR #define UGA #define UKR	63 64 65 66 67 68 69	/*Tanzania*/ /*Thailand*/ /*Trinidad And /*Turkey*/ /*Uganda*/ /*Ukraine*/
Tobago*/ #define TUR #define UGA #define UKR #define GBR Kingdom*/	63 64 65 66 67 68 69 70	/*Tanzania*/ /*Thailand*/ /*Trinidad And /*Turkey*/ /*Uganda*/ /*Ukraine*/ /*United
Tobago*/ #define TUR #define UGA #define UKR #define GBR Kingdom*/ #define URY	63 64 65 66 67 68 69 70	/*Tanzania*/ /*Thailand*/ /*Trinidad And /*Turkey*/ /*Uganda*/ /*Ukraine*/ /*United /*Uruguay*/
Tobago*/ #define TUR #define UGA #define UKR #define GBR Kingdom*/	63 64 65 66 67 68 69 70	/*Tanzania*/ /*Thailand*/ /*Trinidad And /*Turkey*/ /*Uganda*/ /*Ukraine*/ /*United
Tobago*/ #define TUR #define UGA #define UKR #define GBR Kingdom*/ #define URY #define VEN	63 64 65 66 67 68 69 70 71	/*Tanzania*/ /*Thailand*/ /*Trinidad And /*Turkey*/ /*Uganda*/ /*Ukraine*/ /*Uhited /*Uruguay*/ /*Venezuela*/
Tobago*/ #define TUR #define UGA #define UKR #define GBR Kingdom*/ #define URY #define VEN #define VEN	63 64 65 66 67 68 69 70 71 73 74	/*Tanzania*/ /*Thailand*/ /*Trinidad And /*Turkey*/ /*Uganda*/ /*Ukraine*/ /*United /*Uruguay*/ /*Venezuela*/ /*Vietnam*/
Tobago*/ #define TUR #define UGA #define UKR #define GBR Kingdom*/ #define URY #define VEN	63 64 65 66 67 68 69 70 71	/*Tanzania*/ /*Thailand*/ /*Trinidad And /*Turkey*/ /*Uganda*/ /*Ukraine*/ /*Uhited /*Uruguay*/ /*Venezuela*/
Tobago*/ #define TUR #define UGA #define UKR #define GBR Kingdom*/ #define URY #define VEN #define VEN #define VNM #define GRC	63 64 65 66 67 68 69 70 71 73 74 75	/*Tanzania*/ /*Thailand*/ /*Trinidad And /*Turkey*/ /*Uganda*/ /*Ukraine*/ /*United /*Uruguay*/ /*Venezuela*/ /*Vietnam*/ /*Greece*/
Tobago*/ #define TUR #define UGA #define UKR #define GBR Kingdom*/ #define URY #define VEN #define VEN #define VINM #define GRC #define ISL	63 64 65 66 67 68 69 70 71 73 74 75	/*Tanzania*/ /*Thailand*/ /*Trinidad And /*Turkey*/ /*Uganda*/ /*Ukraine*/ /*United /*Uruguay*/ /*Venezuela*/ /*Vietnam*/ /*Greece*/ /*Iceland*/
Tobago*/ #define TUR #define UGA #define UKR #define GBR Kingdom*/ #define URY #define VEN #define VEN #define VNM #define GRC	63 64 65 66 67 68 69 70 71 73 74 75	/*Tanzania*/ /*Thailand*/ /*Trinidad And /*Turkey*/ /*Uganda*/ /*Ukraine*/ /*United /*Uruguay*/ /*Venezuela*/ /*Vietnam*/ /*Greece*/
Tobago*/ #define TUR #define UGA #define UKR #define GBR Kingdom*/ #define URY #define VEN #define VEN #define SRC #define ISL	63 64 65 66 67 68 69 70 71 73 74 75	/*Tanzania*/ /*Thailand*/ /*Trinidad And /*Turkey*/ /*Uganda*/ /*Ukraine*/ /*United /*Uruguay*/ /*Venezuela*/ /*Vietnam*/ /*Greece*/ /*Iceland*/

```
#define NGA
                                                               78
                                                                                   /*Nigeria*/
#define KOR
                                                               79
                                                                                   /*South Korea*/
#define SVK
                                                                                    /*Slovak
                                                               80
Republic*/
#define BMU
                                                                                    /*Bermuda*/
                                                               81
#define UNS
                                                               82
                                                                                   /*Unsupported
Country*/
#define MLT
                                                               83
                                                                                   /*Republic Of
Malta*/
#define MYS
                                                               84
                                                                                   /*Malaysia*/
#define REU
                                                               85
                                                                                   /*Reunion
Island*/
#define KNA
                                                               86
                                                                                    /*St Kitts And
Nevis*/
#define ATG
                                                               87
                                                                                   /*Antiqua*/
#define BLZ
                                                               88
                                                                                   /*Belize*/
#define DMA
                                                                                    /*Dominica*/
                                                               89
#define DOM
                                                                                   /*Dominican
                                                               90
Republic*/
#define SLV
                                                               91
                                                                                   /*El Salvador*/
#define GRD
                                                               92
                                                                                   /*Grenada*/
#define GTM
                                                               93
                                                                                   /*Guatemala*/
#define GUY
                                                               94
                                                                                   /*Guyana*/
#define JAM
                                                               95
                                                                                   /*Jamaica*/
#define NIC
                                                                                   /*Nicaragua*/
                                                               96
#define VCT
                                                               97
                                                                                   /*St Vincent*/
#define CHL
                                                               98
                                                                                   /*Chile*/
#define PHL
                                                                                   /*Philippines*/
                                                               99
#define ISR
                                                               100
                                                                                   /*Israel*/
#define BIH
                                                               101
                                                                                   /*Bosnia And
Herzegovina*/
#define LBN
                                                               102
                                                                                   /*Lebanon*/
#define SRB
                                                               103
                                                                                   /*Serbia*/
#define EGY
                                                               104
                                                                                   /*Egypt*/
#define BHS
                                                               105
                                                                                   /*Bahamas*/
#define BRA
                                                               106
                                                                                   /*Brazil*/
#define SEN
                                                               107
                                                                                   /*Senegal*/
#define BHR
                                                               108
                                                                                   /*Bahrain*/
#define KWT
                                                                                   /*Kuwait*/
                                                               109
#define OMN
                                                                                   /*Oman*/
                                                               110
#define QAT
                                                               111
                                                                                   /*Qatar*/
                                                                                   /*Saudi Arabia*/
#define SAU
                                                               112
#define ARE
                                                               113
                                                                                   /*United Arab
Emirates*/
#define END_OF_COUNTRY_ISO
                                                                                   /* This should
                                                               114
always be last numerically */
/* Deprecated country ids */
#define AMERICAN_SAMOA
                                                               1
                                                                                    /*American
Samoa*/
#define ASM
                                                               1
                                                                                    /*American
#define FEDERATED_STATES_OF_MICRONESIA
                                                                                   /*Federated
                                                               21
States Of Micronesia*/
#define FSM
                                                                                    /*Federated
                                                               21
States Of Micronesia*/
#define GUAM
                                                               28
                                                                                    /*Guam*/
#define GUM
                                                               28
                                                                                    /*Guam*/
#define MARSHALL_ISLANDS
                                                               39
                                                                                    /*Marshall
Islands*/
#define MHL
                                                               39
                                                                                    /*Marshall
Tslands*/
#define NORTHERN_MARIANA_ISLANDS
                                                               46
                                                                                   /*Northern
Mariana Islands*/
#define MNP
                                                               46
                                                                                   /*Northern
Mariana Islands*/
#define PALAU
                                                                                   /*Palau*/
                                                               48
#define PLW
                                                                                   /*Palau*/
                                                               48
```

```
#define PUERTO_RICO
                                                                55
                                                                                    /*Puerto Rico*/
#define PRI
#define US_VIRGIN_ISLANDS
                                                                                     /*Puerto Rico*/
/*Us Virgin
                                                                55
                                                                72
Islands*/
#define VIR
                                                                                     /*Us Virgin
                                                                72
Islands*/
#define AMERICA_SAMOA
                                          AMERICAN_SAMOA
#define NIGERA
                                          NIGERIA
#define ROM
                                          ROU
#define BELGUIM
                                          BELGIUM
#define COLUMBIA
                                          COLOMBIA
#ifdef __cplusplus
#endif
#endif /* _inc_EZTaxCountryTypeDefine_ */
```

8.3 Appendix C EZTaxProto.h

```
#ifndef _inc_EZTaxProto_
#define _inc_EZTaxProto_
/* If defined for C++ environment */
#ifdef __cplusplus
extern "C" {
#endif
#include "EZTaxStruct.h"
   /*********************
   /* For more information on the API calls please
   /* refer to the EZTax Users Manual
   /* Initialization / Termination Function Prototypes */
   PF_FUNC_SPEC void EZTaxStart(void);
   PF_FUNC_SPEC struct taxes_tbl_v98 *EZTaxInitV98(short int tax_log, struct file_path *paths,
           EZTaxSession *session, char *working_dir);
   PF_FUNC_SPEC struct enhanced_taxes_tbl *EZTaxInitDirEx(short int tax_log, struct file_path
           *paths, EZTaxSession *session, char *working_dir);
   PF_FUNC_SPEC struct enhanced_taxes_tbl *EZTaxInitEx(short int tax_log, struct file_path
           *paths, EZTaxSession *session);
   PF_FUNC_SPEC struct enhanced_taxes_tbl *EZTaxInitExMT(short int tax_log, struct file_path
           *paths, EZTaxSession *session, char *working_dir);
   PF_FUNC_SPEC struct enhanced_taxes_tbl *EZTaxInitV914(short int tax_log_enabled, struct
           file_path_v914 *paths, EZTaxSession *session);
   PF_FUNC_SPEC short int EZTaxExit(void);
   PF_FUNC_SPEC short int EZTaxExitSessionEx(EZTaxSession session);
   /* Set / Modify Prototypes */
   PF_FUNC_SPEC short int EZTaxClearExclusion(EZTaxSession session);
   PF_FUNC_SPEC short int EZTaxFreeRates(struct jurisdictionTaxes *taxes);
   PF_FUNC_SPEC short int EZTaxGroupResults(EZTaxSession session, unsigned long int groupMode);
   PF_FUNC_SPEC short int EZTaxRestoreEx(EZTaxSession session);
   PF_FUNC_SPEC short int EZTaxSetLogName(EZTaxSession session, char *fileName);
   PF_FUNC_SPEC short int EZTaxSetNexus(EZTaxSession session, struct nexus_table * nexus_tbl, int
          nexus count);
   PF_FUNC_SPEC short int EZTaxSetStateExclusion(EZTaxSession session, char country_ISO[4], char
           state_abv[3], short int flag);
   PF_FUNC_SPEC short int EZTaxSetStateNexus(EZTaxSession session, char country_ISO[4], char
           state_abv[3], short int flag);
   PF_FUNC_SPEC short int EZTaxSetWorkingDir(char *directory);
   /* Jurisdiction Calculation / Conversion Prototypes */
   PF_FUNC_SPEC unsigned long int EZTaxCalcJurisdiction(EZTaxSession session, struct J_CodeEx
           *trans, int *err_code);
   PF_FUNC_SPEC unsigned long int EZTaxGetJurisdiction(EZTaxSession session, struct J_CodeEx
           trans, int *err_code);
   PF_FUNC_SPEC char* EZTaxPtoFipsEx(EZTaxSession session, unsigned long int PCode, int
           *err_code);
   PF_FUNC_SPEC unsigned long int EZTaxFtoPCodeEx(EZTaxSession session, char* Fips, int
           *err_code);
   PF_FUNC_SPEC unsigned long int EZTaxJtoPCodeEx(EZTaxSession session, unsigned long int JCode,
           int *err_code);
   PF_FUNC_SPEC unsigned long int EZTaxNtoJCodeEx(EZTaxSession session, unsigned long int npanxx,
           int *err_code);
   PF_FUNC_SPEC unsigned long int EZTaxPtoJCodeEx(EZTaxSession session, unsigned long int PCode,
           int *err_code);
   PF_FUNC_SPEC unsigned long int EZTaxZtoJCodeEx(EZTaxSession session, struct zip_address_p4
           *address, int *err_code);
   PF_FUNC_SPEC unsigned long int EZTaxZtoPCodeEx(EZTaxSession session, struct zip_address_p4
           *address, int *err_code);
   PF_FUNC_SPEC unsigned long int EZTaxCountryToPCode(EZTaxSession session, const char* iso_code,
           int *err_code);
   PF_FUNC_SPEC short int EZTaxNextAddressEx(EZTaxSession session, struct address_data_p4
           *address, int *err_code);
```

```
PF_FUNC_SPEC short int EZTaxJTType(unsigned long int orig_J_Code, unsigned long int
        term J Code);
PF_FUNC_SPEC short int EZTaxJTTypeEx(EZTaxSession session, unsigned long int orig_J_Code,
        unsigned long int term_J_Code, int *err_code);
PF_FUNC_SPEC short int EZTaxNTTypeEx(EZTaxSession session, unsigned long int orig_NPANXX,
        unsigned long int term_NPANXX);
PF_FUNC_SPEC short int EZTaxPTTypeEx(EZTaxSession session, unsigned long int orig_PCode,
        unsigned long int term_PCode, int *err_code);
PF_FUNC_SPEC short int EZTaxGetAddressEx(EZTaxSession session, unsigned long int j_code,
        struct address_data_p4 *address, int *err_code);
PF_FUNC_SPEC unsigned int EZTaxGetCountryID(EZTaxSession session, unsigned long int PCode, int
        *err_code);
PF_FUNC_SPEC unsigned int EZTaxGetStateID(EZTaxSession session, unsigned long int PCode, int
        *err_code);
/* Misc Data Retrieval Prototypes */
PF_FUNC_SPEC char *EZTaxGetTaxCatV98(EZTaxSession session, int tax_type);
PF_FUNC_SPEC char *EZTaxGetTaxDescription(EZTaxSession session, int taxCode);
PF_FUNC_SPEC short int EZTaxDbVersion(char* psz_EZTax_dat, char* psz_db_version);
PF_FUNC_SPEC short int EZTaxSessionDbVersion(EZTaxSession session, char* psz_db_version);
PF_FUNC_SPEC short int EZTaxDllVersion(char* psz_library_version);
PF_FUNC_SPEC short int EZTaxGetLoqName(EZTaxSession session, char* filename);
PF_FUNC_SPEC short int EZTaxGetRates(EZTaxSession session, unsigned long int pCode, struct
        jurisdictionTaxes *taxes, int *err_code);
PF_FUNC_SPEC struct no_tax_tbl *EZTaxGetNoTaxTrans(EZTaxSession session);
PF_FUNC_SPEC short int EZTaxMaxTaxCount(void);
PF_FUNC_SPEC struct rtr_data* EZTaxGetTSR(EZTaxSession session, int *size, short int
        returnData);
PF_FUNC_SPEC void EZTaxClearTSR(EZTaxSession session, struct rtr_data* rpt);
/* Customer Mode Related Prototypes */
PF_FUNC_SPEC int EZTaxNextCustomerEx(EZTaxSession session);
PF_FUNC_SPEC struct cust_taxes_tbl_v98 *EZTaxSetCustModeV98(EZTaxSession session, short int
        mode);
PF_FUNC_SPEC struct enhanced_cust_taxes_tbl *EZTaxSetCustModeEx(EZTaxSession session, short
        int mode);
/* Invoice Mode Related Prototypes */
PF_FUNC_SPEC int EZTaxNextInvoiceEx(EZTaxSession session);
PF_FUNC_SPEC struct invoice_taxes_tbl_v98 *EZTaxSetInvoiceModeV98(EZTaxSession session, short
    int mode);
PF_FUNC_SPEC struct enhanced_invoice_taxes_tbl *EZTaxSetInvoiceModeEx(EZTaxSession session,
   short int mode);
/* Debit Tax Calculation Prototypes*/
PF_FUNC_SPEC short int EZTaxDebitJEx(EZTaxSession session, struct J_CodeEx *trans, int
        *err code);
PF_FUNC_SPEC short int EZTaxDebitNEx(EZTaxSession session, struct NPANXX_codeEx *trans, int
        *err_code);
PF_FUNC_SPEC short int EZTaxDebitPEx(EZTaxSession session, struct P_CodeEx *trans, int
        *err_code);
PF_FUNC_SPEC short int EZTaxDebitTaxInclusiveJCode(EZTaxSession session, struct J_CodeEx
        *trans, double *base_sale, int *err_code);
PF_FUNC_SPEC short int EZTaxDebitTaxInclusiveNPAN(EZTaxSession session, struct NPANXX_codeEx
        *trans, double *base_sale, int *err_code);
PF_FUNC_SPEC short int EZTaxDebitTaxInclusivePCode(EZTaxSession session, struct P CodeEx
        *trans, double *base_sale, int *err_code);
PF_FUNC_SPEC short int EZTaxDebitTaxInclusiveZip(EZTaxSession session, struct zip_codeEx
        *trans, double *base_sale, int *err_code);
PF_FUNC_SPEC short int EZTaxDebitZEx(EZTaxSession session, struct zip_codeEx *trans, int
        *err_code);
/* Credit / Adjustment Tax Calculation Prototypes*/
PF_FUNC_SPEC short int EZTaxAdjDebitJEx(EZTaxSession session, struct J_CodeEx *trans, int
        discount_type, int adj_method, int *err_code);
```

```
PF_FUNC_SPEC short int EZTaxAdjDebitNEx(EZTaxSession session, struct NPANXX_codeEx *trans, int
        discount_type, int adj_method, int *err_code);
PF_FUNC_SPEC short int EZTaxAdjDebitPEx(EZTaxSession session, struct P_CodeEx *trans, int
        discount_type, int adj_method, int *err_code);
PF_FUNC_SPEC short int EZTaxAdjDebitTaxInclusiveJCode(EZTaxSession session, struct J_CodeEx
        *trans, int discount_type, int adj_method, double *base_sale, int *err_code);
PF_FUNC_SPEC short int EZTaxAdjDebitTaxInclusiveNPAN(EZTaxSession session, struct
        NPANXX_codeEx *trans, int discount_type, int adj_method, double *base_sale, int
        *err_code);
PF_FUNC_SPEC short int EZTaxAdjDebitTaxInclusivePCode(EZTaxSession session, struct P_CodeEx
        *trans, int discount_type, int adj_method, double *base_sale, int *err_code);
PF_FUNC_SPEC short int EZTaxAdjDebitTaxInclusiveZip(EZTaxSession session, struct zip_codeEx
        *trans, int discount_type, int adj_method, double *base_sale, int *err_code);
PF_FUNC_SPEC short int EZTaxAdjDebitZEx(EZTaxSession session, struct zip_codeEx *trans, int
        discount_type, int adj_method, int *err_code);
/* API Override Prototypes */
PF_FUNC_SPEC short int EZTaxOvrJCodeEx(EZTaxSession session, unsigned long int j_code, struct
        enhancedOverride *over);
PF_FUNC_SPEC short int EZTaxOvrJCodeWithAdd(EZTaxSession session, unsigned long int j_code,
        struct enhancedOverride *over);
PF_FUNC_SPEC short int EZTaxOvrNPANEx(EZTaxSession session, unsigned long int npanxx, struct
        enhancedOverride *over);
PF_FUNC_SPEC short int EZTaxOvrPCodeEx(EZTaxSession session, unsigned long int p_code, struct
        enhancedOverride *over);
PF_FUNC_SPEC short int EZTaxOvrZipEx(EZTaxSession session, struct zip_address_p4 zip_addr,
        struct enhancedOverride *over, int *err_code);
PF_FUNC_SPEC short int EZTaxLogicOvrJCodeEx(EZTaxSession session, unsigned long int j_code,
        struct logicOverride *over);
PF_FUNC_SPEC short int EZTaxLogicOvrJCodeExP(EZTaxSession session, unsigned long int j_code,
        struct logicOverrideP *over);
PF_FUNC_SPEC short int EZTaxOldOvrJCodeEx(EZTaxSession session, unsigned long int j_code,
        struct tax_ovrd *over);
PF_FUNC_SPEC short int EZTaxSetSafeHarborTAMOverride(EZTaxSession session,
        short int safe_harbor_type, double original_federal_tam, double new_federal_tam, int
        *err code);
PF FUNC SPEC short int EZTaxClearSafeHarborTAMOverride(EZTaxSession session,
        short int safe_harbor_type, int *err_code);
/* Standard Tax Calculation Prototypes*/
PF_FUNC_SPEC short int EZTaxJCodeEx(EZTaxSession session, struct J_CodeEx *trans, int
        *err code);
PF_FUNC_SPEC short int EZTaxNPANEx(EZTaxSession session, struct NPANXX_codeEx *trans, int
        *err_code);
PF_FUNC_SPEC short int EZTaxPCodeEx(EZTaxSession session, struct P_CodeEx *trans, int
        *err_code);
PF_FUNC_SPEC short int EZTaxProRateJCodeEx(EZTaxSession session, struct J_CodeEx *trans,
        double percent, int *err_code);
PF_FUNC_SPEC short int EZTaxProRateNPANEx(EZTaxSession session, struct NPANXX_codeEx *trans,
        double percent, int *err_code);
PF_FUNC_SPEC short int EZTaxProRatePCodeEx(EZTaxSession session, struct P_CodeEx *trans,
        double percent, int *err_code);
PF_FUNC_SPEC short int EZTaxProRateThisJCodeEx(EZTaxSession session, struct this_J_CodeEx
        *trans, double percent, int *err_code);
PF_FUNC_SPEC short int EZTaxProRateThisPCodeEx(EZTaxSession session, struct this_P_CodeEx
        *trans, double percent, int *err_code);
PF_FUNC_SPEC short int EZTaxProRateZipEx(EZTaxSession session, struct zip_codeEx *trans,
        double percent, int *err_code);
PF_FUNC_SPEC short int EZTaxTaxInclusiveJCode(EZTaxSession session, struct J_CodeEx *trans,
        double *base_sale, int *err_code);
PF_FUNC_SPEC short int EZTaxTaxInclusiveNPAN(EZTaxSession session, struct NPANXX_codeEx
        *trans, double *base_sale, int *err_code);
PF_FUNC_SPEC short int EZTaxTaxInclusivePCode(EZTaxSession session, struct P_CodeEx *trans,
        double *base_sale, int *err_code);
PF_FUNC_SPEC short int EZTaxTaxInclusiveZip(EZTaxSession session, struct zip_codeEx *trans,
        double *base_sale, int *err_code);
```

```
PF_FUNC_SPEC short int EZTaxTPPEx(EZTaxSession session, struct TPP_addrEx *tpp_trans, struct
        nexus_table *nex_tab, short int table_length, int *err_code);
PF_FUNC_SPEC short int EZTaxZipEx(EZTaxSession session, struct zip_codeEx *trans, int
        *err_code);
PF_FUNC_SPEC short int EZTaxThisJCodeEx(EZTaxSession session, struct this_J_CodeEx *trans, int
        *err_code);
PF_FUNC_SPEC short int EZTaxThisPCodeEx(EZTaxSession session, struct this_P_CodeEx *trans, int
        *err_code);
PF_FUNC_SPEC short int EZTaxPrivateLine(EZTaxSession session, struct private_line_P_Code
        *trans, int *err_code);
PF_FUNC_SPEC short int EZTaxPrivateLineAdj(EZTaxSession session, struct private_line_P_Code
        *trans, int discount_type, int adj_method, int *err_code);
/* Bridge Conferencing Prototypes */
PF_FUNC_SPEC short int EZTaxBridgeConference(EZTaxSession session, struct
        BridgeConferenceTransaction* bconft, struct BridgeConferenceTaxes** pbctaxes, int
        *err code);
PF_FUNC_SPEC void FreeBridgeParticipantMemory(struct BridgeConferenceTaxes* pBCT);
/* Credit / Adjustment Tax Calculation Prototypes*/
PF_FUNC_SPEC short int EZTaxAdjTaxInclusiveJCode(EZTaxSession session, struct J_CodeEx *trans,
        int discount_type, int adj_method, double *base_sale, int *err_code);
PF_FUNC_SPEC short int EZTaxAdjTaxInclusiveNPAN(EZTaxSession session, struct NPANXX_codeEx
        *trans, int discount_type, int adj_method, double *base_sale, int *err_code);
PF_FUNC_SPEC short int EZTaxAdjTaxInclusivePCode(EZTaxSession session, struct P_CodeEx *trans,
        int discount_type, int adj_method, double *base_sale, int *err_code);
PF_FUNC_SPEC short int EZTaxAdjTaxInclusiveZip(EZTaxSession session, struct zip_codeEx *trans,
        int discount_type, int adj_method, double *base_sale, int *err_code);
PF_FUNC_SPEC short int EZTaxAdjJCodeEx(EZTaxSession session, struct J_CodeEx *trans, int
        discount_type, int adj_method, int *err_code);
PF_FUNC_SPEC short int EZTaxAdjNPANEx(EZTaxSession session, struct NPANXX_codeEx *trans, int
        discount_type, int adj_method, int *err_code);
PF_FUNC_SPEC short int EZTaxAdjPCodeEx(EZTaxSession session, struct P_CodeEx *trans, int
        discount_type, int adj_method, int *err_code);
PF_FUNC_SPEC short int EZTaxAdjProRateJCode(EZTaxSession session, struct J_CodeEx *trans, int
        discount_type, double percent, int adj_method, int prorate_credit_or_cancel,int
        *err_code);
PF_FUNC_SPEC short int EZTaxAdjProRateNPAN(EZTaxSession session, struct NPANXX_codeEx *trans,
        int discount_type, double percent, int adj_method, int prorate_credit_or_cancel,int
        *err_code);
PF_FUNC_SPEC short int EZTaxAdjProRatePCode(EZTaxSession session, struct P_CodeEx *trans, int
       discount_type, double percent, int adj_method, int prorate_credit_or_cancel,int
       *err code);
PF_FUNC_SPEC short int EZTaxAdjProRateThisJCode(EZTaxSession session, struct this_J_CodeEx
       *trans, int discount_type, double percent, int adj_method, int
       prorate_credit_or_cancel,int *err_code);
PF_FUNC_SPEC short int EZTaxAdjProRateThisPCode(EZTaxSession session, struct this_P_CodeEx
       *trans, int discount_type, double percent, int adj_method, int
      prorate_credit_or_cancel,int *err_code);
PF_FUNC_SPEC short int EZTaxAdjProRateZip(EZTaxSession session, struct zip_codeEx *trans, int
       discount_type, double percent, int adj_method, int prorate_credit_or_cancel,int
       *err code);
PF_FUNC_SPEC short int EZTaxAdjTPPEx(EZTaxSession session, struct TPP_addrEx *tpp_trans, int
        discount_type, struct nexus_table *nex_tab, short _count, int adj_method, int
        *err_code);
PF_FUNC_SPEC short int EZTaxAdjZipEx(EZTaxSession session, struct zip_codeEx *trans, int
        discount_type, int adj_method, int *err_code);
   /* Tax Log Prototypes */
PF_FUNC_SPEC struct EZTax_logEx *EZTaxGetCustomLog(EZTaxSession session);
PF_FUNC_SPEC short int EZTaxGetCustomLogCount(EZTaxSession session);
PF_FUNC_SPEC short int EZTaxWriteToLogEx(EZTaxSession session, int count, struct EZTax_logEx
        *log);
PF_FUNC_SPEC struct EZTax_log_v914 *EZTaxGetLogV914(EZTaxSession session);
PF_FUNC_SPEC short int EZTaxGetLogV914Count(EZTaxSession session);
PF_FUNC_SPEC short int EZTaxWriteToLogV914(EZTaxSession session, int count, struct
        EZTax_log_v914 *log);
/* The flush function works for all log types */
```

```
/* Deprecated Prototypes (preserved for backwards compatibility) */
  PF_FUNC_SPEC short int EZTaxAdjProRateJCodeEx(EZTaxSession session, struct J_CodeEx *trans,
           int discount_type, double percent, int adj_method, int *err_code);
   PF_FUNC_SPEC short int EZTaxAdjProRateNPANEx(EZTaxSession session, struct NPANXX_codeEx
           *trans, int discount_type, double percent, int adj_method, int *err_code);
   PF_FUNC_SPEC short int EZTaxAdjProRatePCodeEx(EZTaxSession session, struct P_CodeEx *trans,
           int discount_type, double percent, int adj_method, int *err_code);
   PF_FUNC_SPEC short int EZTaxAdjProRateThisJCodeEx(EZTaxSession session, struct this_J_CodeEx
           *trans, int discount_type, double percent, int adj_method, int *err_code);
  PF_FUNC_SPEC short int EZTaxAdjProRateThisPCodeEx(EZTaxSession session, struct this_P_codeEx
           *trans, int discount_type, double percent, int adj_method, int *err_code);
   PF_FUNC_SPEC short int EZTaxAdjProRateZipEx(EZTaxSession session, struct zip_codeEx *trans,
           int discount_type, double percent, int adj_method, int *err_code);
  PF_FUNC_SPEC short int EZTaxDebitRevJCode(EZTaxSession session, struct J_CodeEx *trans, double
           *base_sale, int *err_code);
                                         //Replaced by EZTaxDebitTaxInclusiveJCode
  PF_FUNC_SPEC short int EZTaxDebitRevNPAN(EZTaxSession session, struct NPANXX_codeEx *trans,
           double *base_sale, int *err_code); //Replaced by EZTaxDebitTaxInclusiveNPAN
  PF_FUNC_SPEC short int EZTaxDebitRevPCode(EZTaxSession session, struct P_CodeEx *trans, double
           *base_sale, int *err_code);
                                         //Replaced by EZTaxDebitTaxInclusivePCode
  PF_FUNC_SPEC short int EZTaxDebitRevZip(EZTaxSession session, struct zip_codeEx *trans, double
           *base_sale, int *err_code); //Replaced by EZTaxDebitTaxInclusiveZip
  PF_FUNC_SPEC short int EZTaxAdjDebitRevJCode(EZTaxSession session, struct J_CodeEx *trans, int
           discount_type, int adj_method, double *base_sale, int *err_code);
  PF_FUNC_SPEC short int EZTaxAdjDebitRevNPAN(EZTaxSession session, struct NPANXX_codeEx *trans,
           int discount_type, int adj_method, double *base_sale, int *err_code);
   PF_FUNC_SPEC short int EZTaxAdjDebitRevPCode(EZTaxSession session, struct P_CodeEx *trans, int
           discount_type, int adj_method, double *base_sale, int *err_code);
  PF_FUNC_SPEC short int EZTaxAdjDebitRevZip(EZTaxSession session, struct zip_codeEx *trans, int
           discount_type, int adj_method, double *base_sale, int *err_code);
  PF_FUNC_SPEC short int EZTaxRevJCode(EZTaxSession session, struct J_CodeEx *trans, double
           *base_sale, int *err_code);
  PF_FUNC_SPEC short int EZTaxRevNPAN(EZTaxSession session, struct NPANXX_codeEx *trans, double
           *base_sale, int *err_code);
  PF_FUNC_SPEC short int EZTaxRevPCode(EZTaxSession session, struct P_CodeEx *trans, double
           *base_sale, int *err_code);
  PF_FUNC_SPEC short int EZTaxRevZip(EZTaxSession session, struct zip_codeEx *trans, double
           *base_sale, int *err_code);
  PF_FUNC_SPEC short int EZTaxAdjRevJCode(EZTaxSession session, struct J_CodeEx *trans, int
           discount_type, int adj_method, double *base_sale, int *err_code);
   PF_FUNC_SPEC short int EZTaxAdjRevNPAN(EZTaxSession session, struct NPANXX_codeEx *trans, int
           discount_type, int adj_method, double *base_sale, int *err_code);
   PF_FUNC_SPEC short int EZTaxAdjRevPCode(EZTaxSession session, struct P_CodeEx *trans, int
           discount_type, int adj_method, double *base_sale, int *err_code);
  PF_FUNC_SPEC short int EZTaxAdjRevZip(EZTaxSession session, struct zip_codeEx *trans, int
           discount_type, int adj_method, double *base_sale, int *err_code);
/* If defined for C++ environment */
#ifdef __cplusplus
#endif
#endif /* _inc_EZTaxProto_ */
```

8.4 Appendix D EZTaxSauStruct.h

```
#ifndef _inc_EZTaxSAUStruct_
#define _inc_EZTaxSAUStruct_
/* If defined for C++ environment */
#ifdef __cplusplus
extern "C" {
#endif
/* this structure defined for customer use only in determining how to setup a freight transaction
/* for sales and use */
struct sau freight properties
                                   /* Paid to Seller - 0 = False, 1 = True */
   short int
   short int
                       CmnC;
                                   /* Common Carrier - 0 = False, 1 = True */
   short int
                       SReq;
                                   /* Seller Required Shipping - 0 = False. 1 = True */
};
/* this structure defined for customer use only in determining how to setup a discount
transaction */
/* for sales and use */
struct sau_discount_properties
                                  /* see Manual, 12 diff types */
   short int
                       type;
/* this structure defined for customer use only in determining how to setup a finance transaction
/* for sales and use */
struct sau_finance_properties
                                  /* interest type - 1=original, 2=rebilled, 3=3rd party */
                       type;
};
/* this structure defined for customer use only in determining how to setup an installation
transaction */
/* for sales and use */
struct sau_installation_properties
{
                                 /* see Manual, 10 diff types */
  short int
                      t.vpe;
};
/* this structure defined for customer use only in determining how to setup a ship & handling
transaction */
/* for sales and use */
struct sau_shipandhandling_properties
{
                       SReq;
                                  /* Seller Required Shipping - 0 = False. 1 = True */
/* this structure defined for customer use only in determining how to setup a software maint.
transaction */
/* for sales and use */
struct sau_softwaremaint_properties
   short int
                       SRea;
                                   /* Seller Required - 0 = False. 1 = True */
                                   /* Agreement type - 0 = N/A, 1 = Updates, 2 = Service, */
   short int
                       type;
                                   /* 3 = Updates & Service, 4 = Customer Support */
                       UpdType;
                                   /* Update Type - 0 = N/A, 1 = Tangible, 2 = Electronic */
   short int
/* this structure defined for customer use only in determining how to setup a service contract
transaction */
/* for sales and use */
struct sau_svc_contract_properties
                                  /* Seller Required - 0 = False. 1 = True */
   short int
                       SReq;
```

```
short int
                                  /* Agreement Type - 1 = Parts, 2 = Labor, 3 = Parts & Labor */
                       type;
   short int
                       SaleType;
                                  /* Sale Type: 1 = Initial Sale, 2 = After Initial Sale */
                                  /* Item Type - 0 = Product, 1 = Service */
   short int
                       ItemType;
struct sau_maint_agreement_properties
   short int
                                   /* Seller Required - 0 = False. 1 = True */
                       SReq;
                                   /* Agreement Type - 1 = Parts, 2 = Labor, */
   short int
                       type;
                                   /* 3 = Parts & Labor, 4 = Service Only */
                                   /* Sale Type - 1 = Initial Sale, 2 = After Initial Sale */
   short int
                       SaleType;
                                   /* Item Type - 0 = Product, 1 = Service */
   short int
                       ItemType;
struct sau_factory_warranty_properties
                                   /* Seller Required - 0 = False. 1 = True */
   short int
                       SReq;
                                  /* Agreement Type - 1 = Parts, 2 = Labor, 3 = Parts & Labor */
  short int
                       type;
struct sau_ext_warranty_properties
   short int
                                   /* Seller Required - 0 = False. 1 = True */
                                   /* Agreement Type - 1 = Parts, 2 = Labor, */
   short int
                       type;
                                   /* 3 = Parts & Labor, 4 = Service Only */
/* 5 = Parts on TPP, 6 = Labor on TPP, */
                                        5 = Parts on TPP, 6 = Labor on TPP, */
                                   /* 7 = Parts & Labor on TPP, 8 = Service Only on TPP */
  short int
                                   /* Sale Type - 1 = Initial Sale, 2 = After Initial Sale */
                       SaleType;
};
struct sau_tax_data
   short int
              customer_type; /* 0=residential, 1=business, 2=Senior Citizen, 3=Industrial */
                              /* flag - retail/sale or wholesale/resale */
   short int
               sale;
   short int
                             /* see the programmer user's */
               trans_type;
                              /* manual for valid transaction service type pairs */
   short int
               srv_type;
   short int
               attr;
                               /* SAU_FREIGHT, SAU_DEMURRAGE, SAU_DEPOSITS, ... */
   union prop_union
     struct sau_freight_properties
                                            freight;
                                                               /* for freight */
                                                               /* for discounts */
     struct sau_discount_properties
                                            discount;
                                                               /* for finance */
     struct sau_finance_properties
                                            finance;
                                                              /* for installation */
      struct sau_installation_properties
                                            installation;
      struct sau_shipandhandling_properties shipandhandle;
                                                               /* for shipping and handling */
     struct sau_softwaremaint_properties softwaremaint;
      struct sau_svc_contract_properties
                                             syccontract;
      struct sau_maint_agreement_properties maintagreement;
      struct sau_factory_warranty_properties facwarranty;
      struct sau_ext_warranty_properties
                                           extwarranty;
   } property;
   unsigned long int date;
                                   /* transaction bill date */
   double
                    charge;
                                   /* amount charged to customer */
   int
                     count;
                                   /* number of items */
                                  /* incorporated or unincorporated area */
   short int
                     incorp;
                                  /* If TRUE, transaction exempt from Federal Tax */
   short int
                     FED_exempt;
   short int
                                  /* If TRUE, transaction exempt from State Tax */
                     st_exempt;
                                  /* If TRUE, transaction exempt from County Tax */
   short int
                     co exempt;
                                  /* If TRUE, transaction exempt from local tax */
   short int
                     loc_exempt;
   unsigned long int FED_J_Code;
                                  /* Jurisdiction for Federal exemption */
                                  /* Jurisdiction for state exemption */
   unsigned long int st_J_Code;
                                  /* Jurisdiction for county exemption */
   unsigned long int co_J_Code;
                                   /* Jurisdiction for local exemption */
   unsigned long int loc_J_Code;
                                   /* 0 indicates no of special exempts, other value indicates */
   short int
                     spc_exempt;
                                   /* number of special exempts */
                                   /* array of exemptions */
   struct tax_exempt *s_exempt;
                  exempt_type;
                                   /* reason for exemption */
   short int
   unsigned long int inv_no;
                                   /* Invoice number, user defined */
                                   /* srv_lvl_no is not in SAU structure */
```

```
/* The value is used for attribute in the log */
                                 /* user defined value for reporting */
  unsigned long int optional;
                   char
                   company_identifier[CO_IDENTIFIER_SIZE]; /* company_identifier */
                    opt_alpha_1[CUST_NO_SIZE]; /* optional alpha field */
  char
                                             /* optional numeric field */
  unsigned long int opt_4;
                                             /* optional numeric field */
  unsigned long int opt_5;
  unsigned long int opt_6;
                                             /* optional numeric field */
                                            /* optional numeric field */
  unsigned long int opt_7;
                                             /* optional numeric field */
  unsigned long int opt_8;
  unsigned long int opt_9;
                                             /* optional numeric field */
                                             /* optional numeric field */
  unsigned long int opt_10;
struct sau_Fips_Code
                                              /* 0 = Shipping point, 1 = Destination */
  short int
                       FOB;
                        *ship_from_fips_code; /* ship-from Fips code */
  char
                                             /* ship_to Fips code */
  char
                       *ship_to_fips_code;
  struct sau_tax_data
                      trans_data;
struct sau_P_Code
  short int
                                             /* 0 = Shipping point, 1 = Destination */
                       FOB;
                      ship_from_P_Code;
  unsigned long int
                                             /* ship-from P Code number */
  unsigned long int
                       ship_to_P_Code;
                                             /* ship_to P Code number */
  struct sau_tax_data trans_data;
struct sau_J_Code
  short int
                       FOB;
                                            /* 0 = Shipping point, 1 = Destination */
                                            /* ship-from J Code number */
  unsigned long int
                       ship_from_J_Code;
  unsigned long int
                                             /* ship_to J Code number */
                       ship_to_J_Code;
  struct sau_tax_data trans_data;
struct sau_Zip_Code
{
  short int
                         FOB;
                                          /* 0 = Shipping point, 1 = Destination */
                         ship_from_info; /* ship-from ZIP code+4 and address information */
  struct zip_address_p4
  struct zip_address_p4 ship_to_info; /* delivery ZIP code+4 and address information */
                                        /* Required tax information */
  struct sau_tax_data
                         trans_data;
#ifdef __cplusplus
#endif
#endif /* _inc_EZTaxSAUStruct_ */
```

8.5 Appendix E EZTaxSauDefine.h

```
EZTaxSauDefine.h
#ifndef _inc_EZTaxSAUDefine_
#define _inc_EZTaxSAUDefine_
/* define attribute types */
#define SAU_DEFAULT
#define SAU_DEMURRAGE
#define SAU_DEPOSITS
#define SAU DISCOUNTS
                                                      3
#define SAU_FINANCE
#define SAU FREIGHT
#define SAU_INSTALLATION
#define SAU_SHIP_HANDLING
#define SAU_TRADE_IN
#define SAU_SOFTWARE_MAINT
#define SAU_SVC_CONTRACT
                                                     10
#define SAU_MAINT_AGREEMENT
                                                      11
#define SAU FACTORY WARRANTY
                                                      12
#define SAU_EXT_WARRANTY
                                                      13
/* define demurrage property values */
/* define deposits property values */
/* define discount property values */
#define SAU_DISC_3RD_PARTY_COUPON
#define SAU_DISC_VENDOR_COUPON
#define SAU_DISC_DISCOUNT_CARD
#define SAU_DISC_REBATE_FACTORY
#define SAU_DISC_REBATE_AUTOMOTIVE
#define SAU_DISC_REBATE_RETAILER
#define SAU DISC CASH
#define SAU_DISC_EARLY_PMT
                                                      8
#define SAU_DISC_QTY
#define SAU_DISC_TERM
                                                      10
#define SAU_DISC_TRADE
#define SAU_DISC_COUPON_BOOK_REDEMPTION
                                                      12
/* deprecated defines - will be removed at some time in the future */
#define SAU 3RD PARTY COUPON
                                                      1
#define SAU_VENDOR_COUPON
#define SAU_DISCOUNT_CARD
                                                      3
#define SAU_REBATE_FACTORY
                                                      4
#define SAU_REBATE_AUTOMOTIVE
#define SAU_REBATE_RETAILER
/* define finance property values */
#define SAU_FNC_ORIGINAL
#define SAU_FNC_REBILLED
#define SAU_FNC_3RD_PARTY
/* deprecated defines - will be removed at some time in the future */
#define SAU_ORIGINAL
                                                      1
#define SAU REBILLED
#define SAU_3RD_PARTY
/* define freight property values */
/* define installation property values */
#define SAU_INST_EXPENSES
#define SAU_INST_PUB_UTIL_SVC
#define SAU_INST_REINST_TPP
#define SAU_INST_IN_REAL_PROP
#define SAU_INST_RADIO_TV
                                                      5
#define SAU_INST_AC
                                                      6
#define SAU_INST_ALUM_SIDING
#define SAU_INST_GLASS
```

```
#define SAU_INST_FLR_CVR_REAL_PROP_ATTACH
#define SAU_INST_FLR_CVR_STICK_AND_PAD
                                                      10
#define SAU_INST_GENERAL_SSTP_RULE
                                                      11
/* deprecated defines - will be removed at some time in the future */
#define SAU_RE_INST_TPP
                                                      3
#define SAU_ALUM_SIDING
#define SAU_GLASS
                                                      8
#define SAU_FLR_CVR_REAL_PROP_ATTACH
                                                      9
#define SAU_FLR_CVR_STICK_AND_PAD
                                                      10
/* define shipping-handling property values */
/* define trade-in property values */
/* define software maintenance property values */
#define SAU SOFT NA
#define SAU_SOFT_UPDATE
#define SAU_SOFT_SERVICE
#define SAU_SOFT_UPD_AND_SVC
                                                      3
#define SAU_SOFT_CUSTOMER_SUPPORT
#define SAU_SOFT_UPDATE_TANGIBLE
                                                      1
#define SAU_SOFT_UPDATE_ELECTRONIC
/* deprecated defines - will be removed at some time in the future */
#define SAU_UPDATE_TANGIBLE
                                                      1
#define SAU_UPDATE_ELECTRONIC
/* service contract, maintenance agreement, */
/* factory and extended warranty */
/* deprecated defines - will be removed at some time in the future */
#define SAU PARTS
                                                      1
#define SAU_LABOR
#define SAU PARTS AND LABOR
                                                      3
#define SAU_SERVICE_ONLY
                                                      4
#define SAU_SALE_INITIAL
                                                      1
#define SAU_SALE_AFTER
                                                      2
/* define service contract property values */
#define SAU_SRVC_NA
                                                      Ω
#define SAU SRVC PARTS
                                                      1
#define SAU_SRVC_LABOR
                                                      2
#define SAU_SRVC_PARTS_AND_LABOR
#define SAU_SRVC_SERVICE
                                                      4
#define SAU_SRVC_SALE_DURING
                                                      1
#define SAU_SRVC_SALE_AFTER
                                                      2
/* define maintenance agreement property values */
#define SAU_MNA_NA
                                                      0
#define SAU_MNA_PARTS
                                                      1
#define SAU_MNA_LABOR
#define SAU_MNA_PARTS_AND_LABOR
#define SAU_MNA_SERVICE_ONLY
                                                      4
#define SAU_MNA_SALE_DURING
                                                      1
#define SAU_MNA_SALE_AFTER
/* define factory warranty property values */
#define SAU_FACW_PARTS
                                                      1
#define SAU_FACW_LABOR
#define SAU_FACW_PARTS_AND_LABOR
                                                      3
/* define extended warranty property values */
#define SAU_EXTW_PARTS
                                                      1
#define SAU_EXTW_LABOR
                                                      2
#define SAU_EXTW_PARTS_AND_LABOR
                                                      3
#define SAU_EXTW_SERVICE_ONLY
#define SAU_EXTW_PARTS_TPP
                                                      5
#define SAU_EXTW_LABOR_TPP
                                                      6
#define SAU EXTW PARTS AND LABOR TPP
#define SAU_EXTW_SERVICE_ONLY_TPP
                                                      8
#define SAU EXTW SALE DURING
                                                      1
#define SAU_EXTW_SALE_AFTER
```

#endif

8.6 Appendix F EZTaxSauProto.h

```
#ifndef _inc_EZTaxSauProto_
#define _inc_EZTaxSauProto_
/* If defined for C++ environment */
#ifdef __cplusplus
extern "C" {
#endif
#include "EZTaxStruct.h"
#include "EZTaxSauStruct.h"
   ^{\prime \star} Function determines applicable taxes, calculates, and logs (if tax_log ^{\star \prime}
   /* setup during EZTaxInitEx) them when supplied with transaction data */
   /* Function used for domestic sales and use using an EZTaxSession instance. */
   PF_FUNC_SPEC short int EZTaxSAUFips(EZTaxSession session,
                                         struct sau_Fips_Code *trans,
                                         struct nexus_table *nexus_tab,
                                         short int nexus_count,
                                         int *err_code);
   ^{\prime *} Function determines adjusment for applicable taxes, calculates, and logs ^{*}/
   /* (if tax_log setup during EZTaxInitEx) them when supplied with */
   /* transaction data */
   /* Function used for domestic sales and use using an EZTaxSession instance. */
   PF_FUNC_SPEC short int EZTaxSAUAdjFips(EZTaxSession session,
                                            struct sau_Fips_Code *trans,
                                            struct nexus_table *nexus_tab,
                                            short int nexus_count,
                                            int adj_method, int *err_code);
   /* Function determines applicable taxes, calculates, and logs (if tax_log */
   /* setup during EZTaxInitEx) them when supplied with transaction data */
   /* Function used for domestic sales and use using an EZTaxSession instance. */
   PF_FUNC_SPEC short int EZTaxSAUJCode(EZTaxSession session,
                                          struct sau_J_Code *trans,
                                          struct nexus_table *nexus_tab,
                                          short int nexus_count,
                                          int *err_code);
   ^{\prime \star} Function determines adjusment for applicable taxes, calculates, and logs ^{\star \prime}
   /* (if tax_log setup during EZTaxInitEx) them when supplied with */
   /* transaction data */
   /* Function used for domestic sales and use using an EZTaxSession instance. */
   PF_FUNC_SPEC short int EZTaxSAUAdjJCode(EZTaxSession session,
                                             struct sau_J_Code *trans,
                                             struct nexus_table *nexus_tab,
                                             short int nexus_count,
                                             int adj_method, int *err_code);
   ^{\prime \star} Function determines applicable taxes, calculates, and logs (if tax_log ^{\star \prime}
   /* setup during EZTaxInitEx) them when supplied with transaction data */
   /* Function to be used for domestic sales and use using an EZTaxSession instance. */
   PF_FUNC_SPEC short int EZTaxSAUPCode(EZTaxSession session,
                                          struct sau_P_Code *trans,
                                          struct nexus_table *nexus_tab,
                                          short int nexus_count, int *err_code);
```

```
^{\prime *} Function determines adjusment for applicable taxes, calculates, and logs ^{*}/
/* (if tax_log setup during EZTaxInitEx) them when supplied with transaction */
/* data */
/* Function to be used for domestic sales and use using an EZTaxSession instance. */
PF_FUNC_SPEC short int EZTaxSAUAdjPCode(EZTaxSession session,
                                         struct sau_P_Code *trans,
                                         struct nexus_table *nexus_tab,
                                         short int nexus_count,
                                         int adj_method, int *err_code);
/* Function determines the base sale amount necessary to have that charge */
/* plus applicable taxes equal the charge passed in */
PF_FUNC_SPEC short int EZTaxSAUTaxInclusiveJCodeEZTaxSession session, struct sau_J_Code
*trans.
                                         struct nexus_table *nexus_tab,
                                         short int nexus_count,
                                         double *base_sale, int *err_code);
DEPRECATED/* Function determines the base sale amount necessary to have that charge */
/* plus applicable taxes equal the charge passed in */
PF_FUNC_SPEC short int EZTaxSAURevJCode(EZTaxSession session, struct sau_J_Code *trans,
                                         struct nexus_table *nexus_tab,
                                         short int nexus_count,
                                         double *base_sale, int *err_code);
/* Function determines the base sale amount necessary to have that charge */
/* plus applicable taxes equal the charge passed in */
PF_FUNC_SPEC short int EZTaxSAUAdjTaxInclusiveJCode(EZTaxSession session, struct sau_J_Code
*trans,
                                            struct nexus_table *nexus_tab,
                                            short int nexus_count,
                                            int adj_method, double *base_sale, int *err_code);
DEPRECATED/* Function determines the base sale amount necessary to have that charge */
/* plus applicable taxes equal the charge passed in */
PF_FUNC_SPEC short int EZTaxSAUAdjRevJCode(EZTaxSession session, struct sau_J_Code *trans,
                                            struct nexus_table *nexus_tab,
                                            short int nexus_count,
                                            int adj_method, double *base_sale, int *err_code);
^{\prime \star} Function determines the base sale amount necessary to have that charge ^{\star \prime}
/* plus applicable taxes equal the charge passed in */
PF_FUNC_SPEC short int EZTaxSAUTaxInclusivePCode(EZTaxSession session, struct sau_P_Code
*trans,
                                         struct nexus_table *nexus_tab,
                                         short int nexus_count,
                                         double *base_sale, int *err_code);
DEPRECATED /* Function determines the base sale amount necessary to have that charge */
/* plus applicable taxes equal the charge passed in */
PF_FUNC_SPEC short int EZTaxSAURevPCode(EZTaxSession session, struct sau_P_Code *trans,
                                         struct nexus_table *nexus_tab,
                                         short int nexus_count,
                                         double *base_sale, int *err_code);
^{\prime \star} Function determines the base sale amount necessary to have that charge ^{\star \prime}
/* plus applicable taxes equal the charge passed in */
PF_FUNC_SPEC short int EZTaxSAUAdjTaxInclusivePCode(EZTaxSession session, struct sau_P_Code
*trans,
                                          struct nexus_table *nexus_tab,
                                          short int nexus_count,
                                          int adj_method, double *base_sale, int *err_code);
```

```
DEPRECATED/* Function determines the base sale amount necessary to have that charge */
/* plus applicable taxes equal the charge passed in */
PF_FUNC_SPEC short int EZTaxSAUAdjRevPCode(EZTaxSession session, struct sau_P_Code *trans,
                                            struct nexus_table *nexus_tab,
                                            short int nexus_count,
                                            int adj_method, double *base_sale, int *err_code);
^{\prime \star} Function determines the base sale amount necessary to have that charge ^{\star \prime}
/* plus applicable taxes equal the charge passed in */
PF_FUNC_SPEC short int EZTaxSAUTaxInclusiveZip(EZTaxSession session, struct sau_Zip_Code
*trans,
                                        struct nexus_table *nexus_tab,
                                        short int nexus_count,
                                        double *base_sale, int *err_code);
DEPRECATED/* Function determines the base sale amount necessary to have that charge */
/* plus applicable taxes equal the charge passed in */
PF_FUNC_SPEC short int EZTaxSAURevZip(EZTaxSession session, struct sau_Zip_Code *trans,
                                       struct nexus_table *nexus_tab,
                                        short int nexus_count,
                                        double *base_sale, int *err_code);
^{\prime \star} Function determines the base sale amount necessary to have that charge ^{\star \prime}
/* plus applicable taxes equal the charge passed in */
PF_FUNC_SPEC short int EZTaxSAUAdjTaxInclusiveZip(EZTaxSession session, struct sau_Zip_Code
*trans,
                                          struct nexus_table *nexus_tab,
                                          short int nexus_count,
                                          int adj_method, double *base_sale, int *err_code);
DEPRECATED/* Function determines the base sale amount necessary to have that charge */
/* plus applicable taxes equal the charge passed in */
PF_FUNC_SPEC short int EZTaxSAUAdjRevZip(EZTaxSession session, struct sau_Zip_Code *trans,
                                          struct nexus_table *nexus_tab,
                                          short int nexus_count,
                                          int adj_method, double *base_sale, int *err_code);
/\!\!^* Function determines applicable taxes, calculates, and logs (if tax_log ^*/\!\!
/* setup during EZTaxInitEx) them when supplied with transaction data */
/* Function to be used for domestic sales and use using an EZTaxSession instance. */
PF_FUNC_SPEC short int EZTaxSAUZip(EZTaxSession session,
                                    struct sau_Zip_Code *trans,
                                    struct nexus_table *nexus_tab,
                                    short int nexus_count, int *err_code);
/* Function determines adjusment for applicable taxes, calculates, and logs */
/* (if tax_log setup during EZTaxInitEx) them when supplied with */
/* transaction data */
/* Function used for domestic sales and use using an EZTaxSession instance. */
PF_FUNC_SPEC short int EZTaxSAUAdjZip(EZTaxSession session,
                                       struct sau_Zip_Code *trans,
                                       struct nexus_table *nexus_tab,
                                       short int nexus_count,
                                       int adj_method, int *err_code);
/* Function determines adjusment for applicable taxes, calculates, and logs (if tax_log setup
   during EZTaxInitEx) them */
/*when supplied with transaction data. Function used for domestic sales and use using an
   EZTaxSession instance. */
PF_FUNC_SPEC short int EZTaxSAUDRAdjFips( EZTaxSession session, struct sau_Fips_Code *trans,
                                   struct nexus_table *nexus_tab,
                                   short int nexus_count, int adj_method, int *err_code );
```

```
/* Function determines adjusment for applicable taxes, calculates, and logs (if tax_log setup
during EZTaxInitEx) them */
  /* when supplied with transaction data. Function used for domestic sales and use using an
EZTaxSession instance. */
   PF_FUNC_SPEC short int EZTaxSAUDRAdjJCode( EZTaxSession session, struct sau_J_Code *trans,
                              struct nexus_table *nexus_tab,
                              short int nexus_count, int adj_method, int *err_code );
   ^{\prime \star} Function determines adjusment for applicable taxes, calculates, and logs ^{\star \prime}
   /* (if tax_log setup during EZTaxInitEx) them when supplied with transaction */
   /* data */
   /* Function to be used for domestic sales and use using an EZTaxSession instance. */
   PF_FUNC_SPEC short int EZTaxSAUDRAdjPCode( EZTaxSession session, struct sau_P_Code *trans,
                               struct nexus_table *nexus_tab,
                               short int nexus_count, int adj_method, int *err_code );
   ^{\prime *} Function determines adjusment for applicable taxes, calculates, and logs ^{*}/
   /* (if tax_log setup during EZTaxInitEx) them when supplied with */
   /* transaction data */
   /* Function used for domestic sales and use using an EZTaxSession instance. */
   PF_FUNC_SPEC short int EZTaxSAUDRAdjZip( EZTaxSession session, struct sau_Zip_Code *trans,
                                      struct nexus_table *nexus_tab,
                                      short int nexus_count, int adj_method, int *err_code );
   /* If defined for C++ environment */
#ifdef __cplusplus
#endif
#endif /* _inc_EZTaxSauProto_ */
```

8.7 Appendix G Monthly Update Procedure

The AFC monthly update is available at approximately 4:00 PM Central time on the day before the last business day of each month. It contains updated tax information and database files and is available at the Avalara Support web site. The update contains changes resulting from ongoing research and development, providing the most current and efficient tax-rating engine available.

The process of updating your AFC system is similar to the procedure used to install AFC. Use the Installation Wizard to update your files monthly. There is no need to compile your system data because the Avalara database and AFC software functions are independent from your billing system. Simply follow the seven easy steps.

WARNING

AFC *MUST* be updated each month in order for the program to be current. If the download is not completed within the allotted month, AFC is disabled to prevent incorrect tax calculations.

8.7.1 Download the Monthly Update

The Monthly updates are available from the client download page of the **AFC Comms Platform** web site: https://communications.avalara.net.

- 1. Click on this URL or copy it to your browser and click "go." You will be taken to the Avalara Login Screen. Refer to Figure 8-1.
- 2. Enter your User ID and Password and click on the "Log In" button.



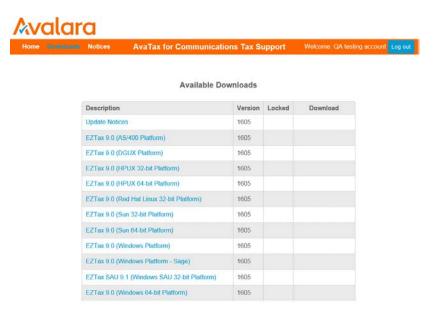
3. Refer to Figure 8-2. After a successful Login, click on the "Downloads" in the selection menu on the left side of the screen.

Figure 8-2 Support Home



4. Refer to Figure 8-3. The Downloads screen contains the list of file(s) (with descriptions and versions) to be downloaded. Click on the description of the file to be downloaded.

Figure 8-3 Downloads Available

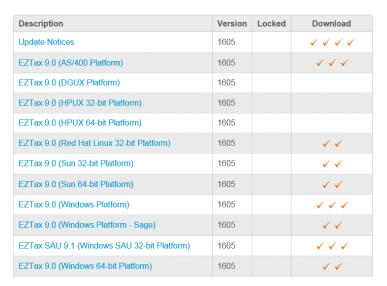


- 5. At the bottom of the screen, a window asking if you want to open or save the selected file appears. Click "Open" and the content of the file is opened. Save the file in the appropriate location.
- 6. Refer to Figure 8-4. After the file has been downloaded you will be returned to the Download screen. There will be a check mark next to the file you downloaded. Mouse-over the check mark to view the User Name and time that the file was downloaded.

Figure 8-4 Downloaded Files



Available Downloads



7. If you have custom designed your application with different directories than the defaults established by Avalara then move the appropriate files to their folders.

8.7.2 Important Files in Update

The following files and directories are included in the monthly update:

- Update.exe Utility that steps the user through the process of installing the update.
- Current tax changes and other documents located in the \support\docs directory are file format keys, guidelines, and the Tax Changes <month year>.doc
- filelocs.upd rename this new file "filelocs.txt"

8.7.3 Monthly Maintenance

Proper monthly maintenance will keep the AFC system operating without interruption. Refer to the following figure for the update procedure flow.

- 1. Take an inventory of all file directories and locations.
- 2. Create a backup of these either on media such as a diskette or save them to a backup directory.
- 3. Once the update is installed, closely review the update file locations.
- 4. Run a Test on a small file.
- 5. Review the \support\docs directory for tax changes and current update information.

Update is Backup of Available for Download on the Current Settings & Files Create a Backup of No Next to the Last Day of Each Month all EZTax Files Yes Install Update Procedure Know where Critical files are Located? Yes No Stop Install & Locate all Files All Updated Files in Correct Folder Locations? Complete Install Procedure and Directories No Relocate or Move Files to the Set-up Yes Locations EZTax is Updated and in Running State

Figure 8-5 EZtax Update Procedure

8.8 Help Guide

The Help guide is provided to support users when encountering difficulties with AFC. Users are encouraged to contact Avalara with concerns of any nature:

Toll Fee: 800-525-8175

Corporate Website: http://communications.avalara.com/

AFC Comms Platform Website: https://communications.avalara.net

Email: communicationsupport@avalara.com

8.8.1 Troubleshooting

Troubleshooting information is provided to assist users in diagnosing and resolving issues when encountered.

Table 8-1 Troubleshooting	
Issue	Solution
When running an application that uses the EZTax2.dll, get	Make sure that EZTax2.dll is located in the working
Unable to locate DLL error.	directory or in a directory that is in your search path.
Open of filelocs.txt configuration file failed!	Place the filelocs.txt file in your working directory
and invalid session handle.	There is number of reasons EZTaxInitEx failed. Look in the *.sta status files for indication of why the failure happened. Most common items are the Database files are expired or the file paths to the database and output files were not specified.
	When using the AFC adjustment functions, make sure the tax amount entered is positive. The adjustment functions will then negate the charge or lines.
If ay rate and tay amount ΔE returns and the results do	AFC takes into account tax on taxes, which will make the tax base larger than the charge that was passed to AFC.

8.8.2 FAQ's

FAQ's are provided to answer common user questions.

Table 8-2 FAQ's	
Question	Answer
What happens if I passed in an invalid NPANXX?	No taxes are generated and the invalid number is reported to EZTax.sta, and the err_code is set.
How do I apply taxes to other countries by using the NPANXX functions?	By passing into the system the country id for that country as the NPANXX. This should be defined in a header file.
want to call AFC to compute taxes for a quote but not log the taxes to the file.	Open a second session with logging turned off.
What if I want to get a PCode for a Country or State in AFC?	Use the EZTaxZipToPCodeP4Ex function. If trying to find PCode for a country, specify the country ISO code and the rest of the field as null strings. If trying to find PCode for a state, specify the country ISO code, state abbreviation and the rest of the fields as null strings.
Do I need to input the county for EZTaxZip functions?	No, but if city crosses county boundaries, AFC will return the first match it finds.
I have more than one tax log for the month. How do I produce one compliance report?	You can use EZTaxAppend or EZTaxAppendF utilities to append binary tax logs together. Also some AFC reporting utilities allow combining tax logs together.
Do the field lengths include the null terminator for C strings.	All field lengths are the actual size in the structure. Be sure to allow one character for the null terminator.