

System Administration Functions

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| EXIMBILLS © Trade Finance System  Customer Enterprise System Version 3.3.6  System Administration Functions  July 2021 |
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CE Documentation Library

CE Documentation Library

CE Documentation Library

The CE Documentation Library lists all available manuals that serve as references on the use of the Customer Enterprise system. The documents are categorized into three groups: Core System Manuals, CE Utility Reference Manuals, and Installation Guides.

Core System Manuals

TheCE core system manuals provide details on the setup and configuration of various CE parameters, as well as the implementation of supplementary functionalities supported by the system.

Archiving and Recovery

This manual is a reference to the Archive and Recovery functionality of the CE system. Discussions include the required parameter settings for configuring the relevant functions, as well as examples of how this functionality is used in transaction processes.

Building a Product

This manual is a reference to the process of building a product in CE. It provides step-by-step procedures on how to create a basic CE module, transaction function, and product setting; configure parameters; and attach components to generate a working business product.

Data Objects

This manual serves as a reference for creating and utilizing data objects in the CE system. The discussions provide details on how to build data object templates and data object entities, and how to attach these to the transaction function screen.

Frequently Asked Questions

This document addresses commonly-asked questions on the Customer Enterprise system. Issues on the browser-side (transaction processing), CE Utility, Security Module, and database, among others, are addressed in the discussions.

Interfacing CE with CS Eximbills

This document discusses the process of interfacing CE with the CS Eximbills (CSX) back office system. Employing the MQ, FTP, and TCP/IP communication protocols, the interface process using the XML format is detailed in this document.

Interfacing CE with Eximbills Enterprise

This document discusses the process of interfacing CE with the Eximbills Enterprise (EE) back office system. Employing the MQ protocol, the interface process for the transfer of data between CE and EE using the XML format is detailed in this document.

Log Settings

This manual provides details on CE logs as well as general instructions on log configuration in CE. This is especially written for the users who are in charge of maintaining the CE system.

Look and Feel

This manual is a reference guide on designing the CE user interface (i.e., the look and feel of the system). Divided into two parts, the manual provides instructions on creating a) the basic L&F style of CE; and b) the CE L&F style that incorporates widgets.

Multi-Entity

This manual is a reference on implementing the Multi-Entity functionality of the CE system. Discussions cover the implementation and application of CE multi-entity.

Multi-Language

This manual discusses the procedures required in setting up the Multi-Language functionality of CE as it is run by Administrator- and Operator-type users. Furthermore, the configuration of certain system and browser elements as well as the setup of related system parameters is explained in step-by-step procedures.

Reports

This manual is a comprehensive reference guide on the requirements and processes involved in building business products and functions that generate online reports and documents.

Security and System Maintenance Functions

This manual is a comprehensive guide on the security and system maintenance of the CE system. As such, it includes detailed instructions for company and company function management, and user and user function management. Maintenance of key functionalities such as authorization rules, reference numbers, and other services is covered as well. In addition, this document discusses the security concepts in CE to assist users assigned with access rights to the CE Security Module.

Standing Data Functions

This document discusses the functions for the CE standing data that are maintained by operators (e.g., parties, clauses). It includes sections for each function, starting with a brief description of the function, followed by the function input when necessary, and the procedure steps.

Supplementary Functions

This manual is a reference for the CE Utility operator user in configuring parameter, JSP, and transaction function settings to define special or supplementary CE functionalities such as uploading images; sending images and forms to the back-office system; and sending notifications via e-mail, SMS, and widgets.

System Administration Functions

This manual is a reference for the default Super Administrator user of the CE Utility in the configuration and maintenance of the CE environment. It discusses in detail user management and parameter management.

System Reference

This document serves as a quick reference to the following elements that are used when configuring specific parameters in the CE Utility: global system parameters, system parameters, components, XML Generator items, server side system methods, system JS methods, and APIs.

CE Utility Reference Manuals

The CE Utility Reference set of manuals is a guide on the use of the Customer Enterprise Utility Workbench, or simply CE Utility. This reference provides details on every function or feature in the CE Utility and includes instructions and step-by-step procedures on how to operate or use the function in relation to operating and maintaining the CE system and processing a business transaction.

A manual is provided for each function group of the CE Utility:

* *CE Utility Reference: User Manager Functions*, for the functions that belong to the User Manage function group of the CE Utility when accessed by an Administrator or Operator user
* *CE Utility Reference: Parameter Manager Functions*, for the functions that belong to the Parameter Manage function group of the CE Utility when accessed by an Administrator or Operator user
* *CE Utility Reference: System Functions*, for the functions that belong to the System Function group of the CE Utility.
* *CE Utility Reference: Transaction Functions*, for the functions that belong to the Transaction Function group of the CE Utility.
* *CE Utility Reference: Product Functions*, for the functions that belong to the Product Function group of the CE Utility.
* *CE Utility Reference: Maintenance Functions*, for the functions that belong to the Maintenance function group of the CE Utility.

Installation Guides

TheCE installation guides are references on the installation and setup processes of the CE system on different application servers and databases.

Installation Guide WAS 9 - Oracle 19c

This is a reference for installing the CE system on WebSphere Application Server Version 9.0.5.6, with an Oracle 19c database. This includes detailed instructions on configuring the components that are required to successfully run CE.

Introduction

Chapter One

* system overview
* manual overview

System Overview

The Customer Enterprise Utility Workbench, or CE Utility, is the main parameter-setting tool of the CE system. It is used to define the parameters that are required to carry out business operations and system tasks in CE. Using the CE Utility, parameters may be customized according to specific business requirements.

The CE Utility is managed by a set of users: the Super Administrator, the Administrator, and the Operator. System administration tasks, such as configuring bank-country group settings, defining data sources, setting global system parameters, and creating new Super Administrator users, may be performed only by a Super Administrator user. Administrator and Operator users, on the other hand, manage and configure parameter settings.

System Administration functions, or those handled by a super administrator, are classified in the CE Utility into two main function groups: User Manage and Parameter Manage.

The User Manage function group pertains to functions that are used for creating and configuring bank-country groups and data sources; creating other Super Administrator users; and creating Administrator users and assigning their functions

The Parameter Manage function group pertains to functions that are used for the maintenance of global system parameters and Language records.

noteNOTE:

1. The default Super Administrator logon details in the CE Utility are as follows:

- User ID: superadmin

- Password: db2admin

1. The settings that are made by a CE Utility super administrator define certain scopes and limitations in the parameters that apply on the browser side of the CE system.

Manual Overview

Purpose

This manual is a reference for the default Super Administrator user of the CE Utility in the configuration and maintenance of the CE environment. It discusses in detail user management and parameter management.

Audience

This document serves as a guide specifically for, but not limited to, the following users:

* Users in-charge of the installation and setup of the CE environment; and
* Users involved in the management, maintenance, and use of the CE Utility.

**Prerequisites**

Sufficient knowledge of the CE system is required. In addition:

* Recommended materials before reading this manual:
* *CE Installation Guides*
* *CE Utility: User Manager Functions*
* *CE Utility: Parameter Manager Functions*
* *CE Multi-Language Reference*

NOTE: Some features discussed in this manual have been tested and documented based on an older system version. Unless otherwise specified, the overall functionality is the same when recreated in the current version.

Using the CE Utility

Chapter Two

* RUNNING THE CE UTILITY
* GENERATING THE XML PARAMETER FIles
* Building a product

Running the CE Utility

The Customer Enterprise Utility Workbench, or CE Utility, is the main tool for building parameters in CE.

Preparing the CE Utility Files

Along with the installation files, the CE Utility folder is provided with every CE system release. Prior to using the CE Utility, do the following:

1. Copy the CE Utility folder to the local drive.
2. Define the required environment variables.
3. Map the CE directories (e.g., CEWeb.war and CE\_PARA) to the network drive.

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***Figure 2. 1 CE Utility Folder***

**noteNOTE:**

1. The default drives defined in the GEN\_XML\_ROOTPATH and GEN\_WEB\_ROOTPATH system parameters are O:\ and P:\ respectively. These drives, if currently not existing, may be created through a batch file. While O:\ and P:\are the default drives for CE, these may be set to any other preferred drive available in the network.
2. To enable users to use the CE Utility on their own local machines as clients connecting to the CE server: 1) Install the Java Development Kit (JDK) program; 2) Copy the CE Utility folder; 3) Create the JAVA\_HOME environment variable, which must point to this directory: [Java Home]\[Installed JDK].
3. For more details on setting up the CE environment, refer to the CE installation guides*.*
4. For details on the CE Utility functions, refer to the *CE Utility Reference* manuals.

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| **Batch File for Creating the CE Drives**  The batch file for creating drives contains the following commands:  subst O: /d  subst P: /d  subst O: C:"\Program Files\IBM\WebSphere\AppServer\profiles\AppSrv01\installedApps\DOCS-CEV336Node01Cell\CE.ear\CE\_PARA"  subst P: C:"\Program Files\IBM\WebSphere\AppServer\profiles\AppSrv01\installedApps\DOCS-CEV336Node01Cell\CE.ear\CEWeb.war" |

Accessing the CE Utility

The main program for running the CE Utility is the CEUtility.bat file, which is found in the CE Utility folder.

|  |
| --- |
| **Do the following . . .** |

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| --- | --- | --- |
| 1. Run the CEUtility batch program to access the CE Utility.  **NOTE**:  A shortcut for the CEUtility batch file can be created on the desktop for easy access. |  |  |
|  |  |  |
| 2. The logon window of the CE Utility is displayed.  To define the database details, click on the Profile button. |  |  |
|  |  |  |
| 3. In the Database Information dialog box that is displayed, specify the required database details and click on the Save button. |  |  |
|  |  |  |
| 4. A confirmation message is displayed. Click on the OK button. |  |  |
|  |  |  |

|  |  |  |
| --- | --- | --- |
| **NOTE**:  This new data source setting is saved in the UserInfo.xml file in the CE Utility directory. |  |  |
|  |  |  |
| 5. The relevant username and password may then be specified for logging on the CE Utility.  **NOTE**:  For details on defining CE Utility user profiles, refer to the *CE System Administration Functions* manual. |  |  |
|  |  |  |
| 6. The CE Utility window is displayed. |  |  |
|  |  |  |

|  |  |  |
| --- | --- | --- |
| 7. A function is accessed by opening or double-clicking on the relevant function group and clicking on the function name.  **NOTE**:  A user may only access and utilize the functions assigned to him. For more details, refer to the *CE Utility Reference: User Manager Functions* documentation*.* |  |  |

**noteNOTE:** It is sometimes necessary to assign a new user name and password when the new database is restored from a backup file. Restoring the backup file restores the original user profiles.

The new user profiles for the CE Utility (as well as the CE Security Module) can be defined during the installation process. SQL scripts are run to create these profiles. Refer to the CE installation guides for more details.

Navigating the CE Utility Interface

After logging on, the CE Utility window is displayed and parameters may then be configured. The functions used for setting up parameters may be accessed by clicking on the function name on the Function menu or by using the shortcut buttons.

The CE Utility interface also provides ways by which parameters can be created, edited, deleted or linked to other operations: menu bar, toolbar buttons, and popup menu.

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|  |

***Figure 2. 2 The CE Utility Interface***

note**NOTE:** A function is only displayed, and its corresponding button or menu option enabled, if the user has been given the right to access this function. Some options and functions are only available to Super Administrator users, while others are only accessible to Administrator and Operator users.

CE Utility Functions

The functions that may be accessed for setting up parameters are organized together into several function groups. The current available function groups and their corresponding functions in the CE Utility are as follows:

**User Manager Function Group**

This function group is comprised of functions used for creating, configuring, and exporting Bank-Country group settings; creating new users; and configuring data sources. These functions are:

* Business Unit Config
* DataSource Manage
* Import/Export Business Unit
* User Manage

**Parameter Manage Function Group**

This function group consists of functions used for maintaining system-wide parameters and components. These functions are:

* AP Server
* Component Manage
* Language Configuration
* System Parameter
* System Parameters

**System Function Group**

This function group consists of functions used for maintaining and facilitating system-wide tasks, operations, and settings. These functions are:

* Image Type Maintain
* Output Device
* Queue Manager
* STP Setting
* Time Zone

**Transaction Function Group**

This function group is comprised of functions used for defining the actual business parameters of transaction functions. These facilitate the maintenance and processes of the business transaction modules. These functions are:

* Amount/Rate Format
* Batch Manage
* Clause
* DO Get Data
* Export Setting
* Form
* GAPIs Setting
* Get Data
* Image Control
* Message Broker Setting
* Module & Event
* Report Template
* STPs Mapping
* Sub Tasks
* SWIFT Config
* System Maintain
* Transaction Function
* Transfer To
* TSU Mapping
* Upload Message Setting
* Web Service Setting
* Widget Maintain

**Product Function Group**

This function group consists of functions that are used for creating and configuring the products to be accessed and used by the customers or end-users. These functions are:

* Fields Select
* Inbox
* Product Authorize
* Product Authorize Setting
* Product Catalog
* Product Function Setting
* Product Item

**Maintenance Function Group**

This function group is comprised of functions used for facilitating the maintenance of data from CE tables, including fields and error settings. These functions are:

* DB Dictionary
* Error Handling
* Error Message Config (CE)
* Field Conversion
* Multi Language
* Page Dictionary
* XML Generator

Menu Bar

The options on the menu bar are shortcuts to both the common and specific functions and tasks of the system.

|  |
| --- |
|  |

***Figure 2. 3 Menu Bar***

|  |  |  |
| --- | --- | --- |
| **Menu** |  | **Description** |

|  |  |  |
| --- | --- | --- |
| **File** |  | The available options in the File menu are:   * New: This is used for creating a new parameter or rule. * Save: This is used for saving the created or modified settings. * Close Function: This is used for closing the current function window. * Connect To: This is used for connecting to another Meta data source. * Log Off: This is used for logging off a user that is logged on to the system without exiting the system. * Exit: This is used for closing the system window and exiting the system. |
|  |  |  |
| **Edit** |  | The available options in the Edit menu are:   * Add: This is used for adding a setting for the selected function or parameter. * Delete: This is used for deleting or removing an existing setting. * Edit: This is used for editing or modifying existing settings. * Copy: This is used for copying or duplicating a selected setting. * Find: This is used for finding a specific setting. |
|  |  |  |
| **Function** |  | The available options in the Function menu are:   * User Manage, which displays options for running User Manager functions * Parameter Manage, which displays options for running Parameter Manager functions * System Function, which displays options for running System functions * Transaction Function, which displays options for running Transaction functions * Product Function, which displays options for running Product functions * Maintenance, which displays options for running Maintenance functions |
|  |  |  |
| **Tools** |  | The available options in the Tools menu are:   * Toolbar: When this option is marked, the toolbar is displayed on the CE Utility Workbench window. * Function Toolbar: When this option is marked, the function toolbar is displayed on the CE Utility Workbench window. * Set User Profile DB Info: This option is used by the Super Administrator user to change the user information that is to be used by the CE Utility for connecting to a database. * Window Style: Selecting this option displays a list of CE Utility interface styles: Microsoft Style, Unix Style, Java Style, Classic Style, and Metal Style. The preferred style may be marked accordingly. |
|  |  |  |
| **Help** |  | The available options in the Help menu are:   * Help Topics: This is *currently not used*. * Content Help: This is *currently not used.* * About Customer Enterprise: Selecting this option displays the About Customer Enterprise window, which indicates the version information of CE. |

Toolbar Buttons

There are two kinds of toolbars in the CE Utility: the basic toolbar and the function toolbar.

**Basic Toolbar**

The following standard buttons are available on the Basic Toolbar of the CE Utility window. These are used for performing the basic and common tasks of the system.

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***Figure 2. 4 Basic Toolbar Buttons***

|  |  |  |
| --- | --- | --- |
| **Button** |  | **Description** |

|  |  |  |
| --- | --- | --- |
| **New** |  | This button is used for creating a new parameter or rule. |
|  |  |  |
| **Add** |  | This button is used for adding a setting for the selected function or parameter. |
|  |  |  |
| **Save** |  | This button is used for storing created or modified settings. |
|  |  |  |
| **Edit** |  | This button is used for editing or modifying existing settings. |
|  |  |  |
| **Copy** |  | This button is used for copying or duplicating a selected setting. |
|  |  |  |
| **Delete** |  | This button is used for deleting or removing an existing setting. |
|  |  |  |
| **Find** |  | This button is used for finding an existing setting. |
|  |  |  |
| **Close Function** |  | This button is used for closing a function window. |
|  |  |  |
| **Help Topic** |  | This button is *currently not used.* |
|  |  |  |
| **About Customer Enterprise** |  | This button is used for displaying the version information of Customer Enterprise. |

**Function Toolbar**

The buttons on this toolbar are shortcuts to some of the functions that are in the Function Group lists of the CE Utility window. The buttons may also be accessed from the Function menu on the menu bar.

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| tmp6387 |

***Figure 2. 5 Function Toolbar Buttons***

|  |  |  |
| --- | --- | --- |
| **Button** |  | **Description** |

|  |  |  |
| --- | --- | --- |
| **Set System Parameter** |  | This button is used for accessing the System Parameter function. The function may also be accessed from the Parameter Manage group in the Function menu. |
|  |  |  |
| **Manage Component** |  | This button is used for accessing the Component Manage function. The function may also be accessed from the Parameter Manage group in the Function menu. |
|  |  |  |
| **Calculation** |  | This button is *currently not used.* |
|  |  |  |
| **Module/Event Configuration** |  | This button is used for accessing the Module & Event function. The function may also be accessed from the Transaction Function group in the Function menu. |
|  |  |  |
| **Transaction Function Configuration** |  | This button is used for accessing the Transaction Function. The function may also be accessed from the Transaction Function group in the Function menu. |
|  |  |  |
| **Form Set** |  | This button is used for accessing the Form function. The function may also be accessed from the Transaction Function group in the Function menu. |
|  |  |  |
| **Accounting Rule Setting** |  | This button is *currently not used.* |
|  |  |  |
| **Field Conversion** |  | This button is used for accessing the Field Conversion function. The function may also be accessed from the Maintenance group in the Function menu. |
|  |  |  |
| **Get Data** |  | This button is used for accessing the Get Data function. The function may also be accessed from the Transaction Function group in the Function menu. |
|  |  |  |
| **Reference Number** |  | This button is *currently not used.* |
|  |  |  |
| **Output Device** |  | This button is used for accessing the Output Device function. The function may also be accessed from the System Function group in the Function menu. |
|  |  |  |
| **Function Group** |  | This button is *currently not used.* |
|  |  |  |
| **Clause** |  | This button is used for accessing the Clause function. The function may also be accessed from the Transaction Function group in the Function menu. |
|  |  |  |
| **SWIFT** |  | This button is used for accessing the SWIFT Config function. The function may also be accessed from the Transaction Function group in the Function menu. |
|  |  |  |
| **Queue Manager** |  | This button is used for accessing the Queue Manager function. The function may also be accessed from the System Function group in the Function menu. |
|  |  |  |
| **GAPIs Setting** |  | This button is used for accessing the GAPIs Setting function. The function may also be accessed from the Transaction Function group in the Function menu. |
|  |  |  |
| **Time Zone** |  | This button is used for setting time zone. The function may also be accessed from the System Function group in the Function menu. |
|  |  |  |
| **STP Setting** |  | This button is used for accessing the STP Setting function. The function may also be accessed from the System Function group in the Function menu. |
|  |  |  |
| **Message Broker Setting** |  | This button is used for accessing the Message Broker Setting function. The function may also be accessed from the Transaction Function group in the Function menu. |
|  |  |  |
| **Processing Center** |  | This button is *currently not used.* |
|  |  |  |
| **Amount Format Setting** |  | This button is used for accessing the Amount/Rate Format function. The function may also be accessed from the Transaction Function group in the Function menu. |
|  |  |  |
| **Error Message** |  | This button is used for accessing the Error Message Config (CE) function. The function may also be accessed from the Maintenance group in the Function menu. |
|  |  |  |
| **Say Total** |  | This button is *currently not used.* |
|  |  |  |
| **Holiday** |  | This button is *currently not used.* |
|  |  |  |
| **Report** |  | This button is *currently not used.* |
|  |  |  |
| **Transfer To** |  | This button is used for accessing the Transfer To function. The function may also be accessed from the Transaction Function group in the Function menu. |
|  |  |  |
| **Archiving** |  | This button is *currently not used.* |
|  |  |  |
| **DB Dictionary** |  | This button is used for accessing the DB Dictionary function. The function may also be accessed from the Maintenance group in the Function menu. |
|  |  |  |
| **Calculation Constant** |  | This button is *currently not used.* |
|  |  |  |
| **XML Generator** |  | This button is used for accessing the XML Generator function. The function may also be accessed from the Maintenance group in the Function menu. |
|  |  |  |
| **Business Unit** |  | This button is used for accessing the Business Unit Config function. The function may also be accessed from the User Manage group in the Function menu. |
|  |  |  |
| **User Manager** |  | This button is used for accessing the User Manage function. The function may also be accessed from the User Manage group in the Function menu. |
|  |  |  |
| **Import/Export Business Unit** |  | This button is used for accessing the Import/Export Business Unit function. The function may also be accessed from the User Manage group in the Function menu. |
|  |  |  |
| **DataSource Manager** |  | This function is used for accessing the Data Source Manage function. The function may also be accessed from the User Manage group in the Function menu. |

Popup Menu

Inside a function or configuration window, options may be provided in the form of a popup menu. This menu is displayed by right-clicking on the relevant window section or on the relevant information.

|  |
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|  |

***Figure 2. 6 Popup Menu***

In a popup window, the following options may be made available:

* New
* Add
* Save
* Edit
* Copy
* Delete
* Find
* Sharable
* Help

Generating the XML Parameter Files

The created parameters and business logic are stored in the database as Meta data. For this Meta data to be accessible to the application server (AP) and the web server, it has to be converted to XML – the format used for the communication between the client and the server.

The XML files are generated through the XML Generator function of the Maintenance function group in the CE Utility. In most cases, the XML Generator function must be run when a parameter is created or modified using the functions discussed in this document.

|  |
| --- |
| **Do the following . .** **.** |

|  |  |  |
| --- | --- | --- |
| 1. Log on CE Utility as an Administrator or Operator user with rights to the XML Generator function. |  |  |
|  |  |  |
| 2. The CE Utility window is displayed.  Run the XML Generator function from the Maintenance function group.  Alternatively, click on the XML Generator button in the function toolbar. |  |  |
|  |  |  |
| 3. The XML Generator function window is displayed.  When there are newly defined or modified parameters, the Meta Data to XML window is also displayed. It lists these parameters for easy selection. In this case, the parameter can be selected from this window and the Apply button clicked. Afterwards, proceed to Step 5.  Alternatively, the Meta data or parameter can be manually selected from the main XML Generator window. In this case, click on the Close button of the Meta Data to XML window and proceed to Step 4. |  |  |
|  |  |  |
| 4. Double-click on the relevant parameter type from the XML Generator window. |  |  |
|  |  |  |
| 5. Depending on the selected parameter type, an XML configuration window may be displayed. In other cases, the process directly proceeds to Step 6.  If the configuration window is displayed, indicate the exact or any additional setting required to generate the relevant XML files. When the specifications are defined click on the Save button |  |  |
|  |  |  |
| 6. A message is displayed confirming if the XML files are to be generated on the system path. |  |  |
|  |  |  |
| **NOTE**:  The path of the XML files is defined through the GEN\_XML\_ROOTPATH Utility Workbench system parameter. This system parameter is configured through the System Parameter function from the Parameter Manage function group. |  |  |
|  |  |  |
| 7. To save the XML file on the relevant system path, click on the Yes button.  To specify another path, click on the No button. On the Save dialog box that is displayed, browse for the path and click on the Save button. |  |  |
|  |  |  |
| 8. When the relevant XML files are generated, the system displays a confirmation message.  **NOTE**:  To hide the details on the paths of the generated XML files, click on the Hide button. |  |  |
|  |  |  |
| **NOTE**:  Check the indicated path(s) to see the generated XML files. |  |  |

Building a Product

When building a product in the CE Utility, a few prerequisites are required to be met to make sure that modules or products are built in accordance with the bank’s requirements. One step is the GAP analysis which involves an evaluation of transaction requirements, based on the process flow (e.g., fields, clauses, forms, and interfaces). These are necessary for identifying the fields required for anticipating the required output. When the analysis has been completed, the project team can now begin the process of building a product for the bank’s customers.

The following are steps in building a product:

1. **Access the CE Utility**. To access the CE Utility for building parameters, an Operator user must be created by an Administrator user. This is set up through the User Manager function in the User Manage function group.
2. **Set up the module and events**. This involves naming the module and the projected events that manage the transaction flow within the module. This is set up in the Module and Event function in CE Utility.
3. **Set up the transaction tables.** This involves creating the tables in the DB Dictionary function in CE Utility. There can be different types of tables but only three are mandatory for a CE module: master, ledger, and event.

noteNOTE: It is possible to create tables directly into the database by running SQL scripts in the database. In this case, tables can be created before modules and events. It is recommended, however, to use the DB Dictionary for creating tables.

1. **Add fields to the transaction table**. Fields must be added to a transaction table and field properties defined for the processing and storage of data. These can be done through the DB Dictionary function in CE Utility.
2. **Set up the transaction functions**. This involves creating the functions that correspond to actual business transaction processes. This is done through Transaction Function in the Transaction Function group.
3. **Set up the transaction parameters**. This involves designing the transaction screen, defining attribute and catalog settings, and attaching these parameters to the transaction function. These can be done through Transaction Function in CE Utility.
4. **Create the product.** The product is the actual functionality accessed and run by the end-user. This process of creating a product involves setting up the product group, product, and product function, and defining product catalog settings.
5. **Define authorization rules**. Authorization rules are set to further define or set limits for authorizing transactions.
6. **Calculation.** This involves configuring the transaction JS files and defining calculation functions using available system methods. There are three JS files that have to be configured: the Module Base JS file, Event JS file, and Function JS file.
7. **Define the settings for the transaction input.** Certain functions may be added to aid in the input of data into the transaction. The CE Utility provides options for setting up field conversion rules, lookup buttons, customer reference numbers, clauses, dropdown lists, and data objects for this purpose.
8. **Define the settings for the transaction output.** Some business transactions involve output generation (i.e., Forms). To make this option available, certain settings must be configured using the functions from the Transaction Function group in CE Utility.
9. **Define the security settings in the CE browser.** The products and functions created are assigned to an end-user through the browser-side Security and System Maintenance functions.

noteNOTE: The browser-side security and system maintenance functions of CE are often collectively called the Security Module.

1. **Add the Inbox functionality.** Another way of accessing a product or a transaction for further processing is through the Customer Inbox. This can be set up through the Inbox function in CE Utility.

noteNOTE: For more details on configuring different parameters in CE, refer to the *CE Utility Reference* manuals*.*

User Management Functions

introduction to the user management functions

Chapter Three

business unit config

data source manage

import / export business unit

user manage

Introduction to the User Management Functions

The User Manage function group consists of functions used for creating, configuring, and exporting Bank Group - Country setups; creating new users and assigning access rights; and configuring data sources.

The functions that are available in this function group depend on the type of CE Utility user that is logged on the system. For the Super Administrator user, the following functions are available in this function group:

* Business Unit Config
* Data Source Manage
* Import / Export Business Unit
* User Manage

|  |
| --- |
|  |

Figure 3. User Manage Function Group

noteNOTE: There are User Manage functions that are also available to, but used differently by, Administrator and Operator users. Refer to the *CE Utility Reference: User Manager Functions* document.

Business Unit Config

The Business Unit Config function is used to define several inter-related information pertaining to a working CE environment: area, bank group, country, sub-country, bank-country group, and authorization level. The defined settings are used in the configuration of transaction and security parameters.

Configuration

The Business Unit Config function consists of these tabs: Area, Bank Group, Country, Bank Country Group, and Authorization Level Configuration.

|  |
| --- |
|  |

Figure 3. Business Unit Config Function Window

**noteNOTE:** The Sub Country tab is *currently not used*.

Area Tab

An area code may pertain to a region, a continent, or any grouping of several countries. The Area tab of the Business Unit Config function window is used for defining these area codes.

|  |
| --- |
|  |

Figure 3. New Area Code Window

When defining a new area code, the following details are required in the New Area Code window.

|  |  |  |
| --- | --- | --- |
| Field |  | Field Description |

|  |  |  |
| --- | --- | --- |
| **Area Code** |  | This pertains to the region code, which may be an alphanumeric value with up to five characters. It is automatically specified in capital letters.  Once the Area record is created, this information cannot be modified. |
|  |  |  |
| **Area Description** |  | This pertains to the name or a short description of the area code, which may be an alphanumeric value with up to 20 characters. Special characters are also allowed. |

Bank Group Tab

A bank group is a group of banks which business transactions are managed and processed by CE.

|  |
| --- |
|  |

Figure 3. New Bank Group Window

When defining a new bank group, the following details are required in the New Bank Group window.

|  |  |  |
| --- | --- | --- |
| Field |  | Field Description |

|  |  |  |
| --- | --- | --- |
| **Bank Group ID** |  | This pertains to the bank group Id, which may be an alphanumeric value of up to nine characters. It is automatically specified in capital letters.  Once the Bank Group record is created, this information cannot be modified. |
|  |  |  |
| **Bank Group Name** |  | This pertains to the name of the bank group; this may also be set to the name of the bank concatenated to the area or region name.  This field accepts an alphanumeric value with up to 70 characters. Special characters are also allowed. |

Country Tab

A Country profile is created primarily to determine the currency, date format defaults, and related details that are assigned to a particular country. These Country records are maintained by the system as standing data.

|  |
| --- |
|  |

Figure 3. New Country Code Window

When creating a Country profile, the following fields are required in the New Country Code window.

|  |  |  |
| --- | --- | --- |
| Field |  | Field Description |

|  |  |  |
| --- | --- | --- |
|  |  | ***Area*** |
|  |  |  |
| **Area Code** |  | This refers to the region code that applies to the country. Select the relevant area code from the dropdown list.  **NOTE:**  The Area Code dropdown list options are defined in the Area tab of the Business Unit Config function window. |
|  |  |  |
| **Area Code Desc** |  | This field automatically displays the description of the selected area code. |
|  |  |  |
|  |  | ***Country*** |
|  |  |  |
| **Country Code** |  | This refers to the primary country code of the country. |
|  |  |  |
| **Country Code 1** |  | This refers to an alternate country code for the country. |
|  |  |  |
| **Country Code 2** |  | This refers to a secondary alternate code for the country. |
|  |  |  |
| **Country Name** |  | This refers to the actual name of the country. |
|  |  |  |
| **Local CCY** |  | This refers to the local currency of the country. |
|  |  |  |
| **Second CCY** |  | This refers to the secondary currency that applies to the country. |
|  |  |  |
| **EUR Flag** |  | This is *currently not used*. |
|  |  |  |
| **Date Format** |  | This refers to the date format that applies to the country. Select the relevant format from the dropdown list. |
|  |  |  |
| **Decimal** |  | This refers to the number of decimal places. |
|  |  |  |
| **Integer** |  | This refers to the integer delimiter that applies to the country. |
|  |  |  |
| **CCY Major** |  | This refers to the term used for the major denomination of the country’s currency (e.g., Dollars). |
|  |  |  |
| **CCY Minor** |  | This refers to the term used for the minor denomination of the country’s currency (e.g., Centavos). |
|  |  |  |
| **Time Zone** |  | Select the time zone that applies to the country from the dropdown list. |
|  |  |  |
|  |  | ***Credit*** |
|  |  |  |
| **Credit Rate** |  | This is *currently not used.* |
|  |  |  |
| **Credit Store** |  | This is *currently not used.* |

noteNOTE: Because CE does not yet support copying of modules, the default ‘\_SY’ country record is *currently not used*.

Bank Country Group Tab

The bank-country combination is defined to facilitate sharing of parameters and authorization rules among bank groups that utilize similar rules and parameters for business transaction processing and record management.

The system only recognizes the combination of bank group and country or, simply, bank-country group. A bank-country group follows this naming convention: <Bank Group>\_<Country Code>

**EXAMPLE:**

CSBANK\_US

|  |
| --- |
|  |

Figure 3. Bank Country Group Window

When defining a new bank-country group, the following details are required in the Bank Country Group window.

|  |  |  |
| --- | --- | --- |
| Field |  | Field Description |

|  |  |  |
| --- | --- | --- |
|  |  | ***Set Group*** |
|  |  |  |
| **Bank Group ID** |  | Select the bank group from the dropdown list.  Once the bank-country group record is created, this information cannot be modified.  **NOTE:**  The Bank Group Id dropdown list values are defined in the Bank Group tab of the Business Unit Config function window. |
|  |  |  |
| **Country Code** |  | Select the country code group from the dropdown list.  Once the bank-country group record is created, this information cannot be modified.  **NOTE:**  The Country Code dropdown list values are defined in the Country Code tab of the of the Business Unit Config function window. |
|  |  |  |
|  |  | ***Data Source Setting*** |
|  |  |  |
| **Meta** |  | Select from the dropdown list the Meta data source to be assigned to the indicated bank group-country setting. |
|  |  |  |
| **Transaction** |  | Select from the dropdown list the transaction data source to be assigned to the indicated bank group-country setting. |

Authorization Level Configuration Tab

An authorization level is defined to determine the maximum allowable amount that may be released by a bank-country group. Each level corresponds to an authorization amount limit for transaction processing.

|  |
| --- |
|  |

Figure 3. Authorization Level Configuration Window

When defining a new authorization level setting, the following details are required in the Authorization Level Configuration window.

|  |  |  |
| --- | --- | --- |
| Field |  | Field Description |

|  |  |  |
| --- | --- | --- |
| **Bank Country Group** |  | Select the bank-country group from the dropdown list.  **NOTE:**  The Bank Country Group dropdown list values are defined in the Bank Country Group tab of the of the Business Unit Config function window. |
|  |  |  |
| **Max Authorization Level** |  | Specify the maximum transaction authorization level for the indicated bank-country group.  Twenty authorization level options are provided in the dropdown list. Of these options, 1 is the lowest and 20 is the highest. |

**noteNOTE:** An authorization level for a bank-country group is also called a class number. This is used in authorization settings configured through the CE Security Module. Refer to the *CE Security and System Maintenance Functions* manual for details.

Procedure

To define the basic details of a CE unit or environment:

|  |
| --- |
| **Do the following . . .** |

|  |  |  |
| --- | --- | --- |
| 1. Run the Business Unit Config function from the User Manage function group. |  |  |
|  |  |  |
| 2. The Business Unit Config function window is displayed.  This is comprised of the following tabs: Area, Bank Group, Country, Sub Country, Bank Country Group, and Authorization Level Configuration.  **NOTE:**  The Sub Country tab is *currently not used*. |  |  |
|  |  |  |
| 3. To define a new area code, go to the Area tab. Right-click on the Config section and select the Add option. |  |  |
|  |  |  |
| The New Area Code window is displayed.  Specify the relevant details and click on the Save button. |  |  |
|  |  |  |
| The record is saved and shown in the grid.  To define another area code, specify the required details in the blank New Area Code window that is displayed. Otherwise, click on the Cancel button. |  |  |
|  |  |  |
| 4. To define a new bank group, go to the Bank Group tab and click on the Add button on the toolbar. |  |  |
|  |  |  |
| The New Bank Group window is displayed.  Specify the relevant details and click on the Save button. |  |  |
|  |  |  |
| The record is saved and shown in the grid.  To define another bank group, specify the required details in the blank New Bank Group window that is displayed. Otherwise, click on the Cancel button. |  |  |
|  |  |  |
| 5. To define a new country, go to the Country tab and click on the Add button on the toolbar. |  |  |
|  |  |  |
| The New Country Code window is displayed.  Specify the relevant details and click on the Save button. |  |  |
|  |  |  |
| The record is saved and shown in the grid.  To define another country, specify the required details in the blank New Country Code window that is displayed. Otherwise, click on the Cancel button. |  |  |
|  |  |  |
| 6. To define a bank-country group, go to the Bank Country Group tab and click on the Add button on the toolbar. |  |  |
|  |  |  |
| The Bank Country Group window is displayed.  Define the required details and click on the Save button. |  |  |
|  |  |  |
| The record is saved and shown in the grid. |  |  |
|  |  |  |
| 7. To define the maximum authorization level of a bank-country group, go to the Authorization Level Configuration tab and click on the Add button on the toolbar. |  |  |
|  |  |  |
| The Authorization Level Configuration window is displayed.  Define the required details and click on the Save button. |  |  |
|  |  |  |
| The record is saved and shown in the grid. |  |  |

Data Source Manage

The CE system uses data sources, which are facilities for storing data. These are:

* the Security Data Source, which is used to store security data;
* the Meta Data Source, which is used to store CE Utility parameters; and
* the Transaction Data Source, which is used to store transaction data.

Each of the data sources is partitioned into several schemas, which group together the data that are classified under the information type of the data source.

The CE Utility must be properly configured to the correct data sources. This is done through the Data Source Manage function. Moreover, this function is used to identify the Java Naming and Directory Interface (JNDI) data source in the application server to the system.

This function consists of two tabs: Transaction Data Source Manager and Utility Data Source Manager.

|  |
| --- |
|  |

Figure 3. Data Source Manage Function Window

Transaction Data Source Manager Tab

The Transaction Data Source Manager tab is used for defining the data sources to be used in actual browser-side transactions. These are:

* Transaction, which is the data source used for storing transaction data
* Security, which is the data source used for storing security data

Configuration

When defining a data source, the following details are required in the Data Source Config window.

|  |
| --- |
|  |

Figure 3. Data Source Config Window

|  |  |  |
| --- | --- | --- |
| Field |  | Field Description |

|  |  |  |
| --- | --- | --- |
| **Database Type** |  | This refers to the type of data source to be defined. Select Transaction for the transaction data source, or Security for the Security data source.  **NOTE:**  The Backup and Archiving types are used for the Archiving and Recovery functionality of CE. Refer to the *CE Archiving and Recovery* manual*.* |
|  |  |  |
| **Data Source Version** |  | Select the database version used from the dropdown list. The available options are:   * SYBASE * ORACLE * DB2 * INFORMIX * MSSQL2000 |
|  |  |  |
| **Data Source JNDI Name** |  | Specify the JNDI Name for the specific data source. This is to get the connection of the data source that is defined in the WebSphere service. |
|  |  |  |
| **Data Source JNDI Desc** |  | Provide a brief description for the indicated Java naming directory interface. |
|  |  |  |
| **Resource Reference** |  | A JNDI reference can be specified in this optional field. This instructs the system to perform an indirect JNDI lookup to access a data source. This allows CE to use resource references to access data (i.e., indirect JNDI lookup).  If the platform used is WebLogic, the value must be the same as the resource reference setting in the weblogic-ejb-jar.xml file. |
|  |  |  |
| **Bank Group** |  | Select the relevant bank group from the dropdown list.  When the data source being defined is the Security data source, this field is protected. |
|  |  |  |

|  |  |  |
| --- | --- | --- |
| **Country Code** |  | Select the relevant country code from the dropdown list.  When the data source being defined is the Security data source, this field is protected. |
|  |  |  |
| **Date Format** |  | Select the relevant date format from the dropdown list. |
|  |  |  |
| **Schema** |  | Specify the relevant database schema. |
|  |  |  |
| **User ID** |  | Specify the valid username for accessing the data source.  **NOTE:**  Refer also to this discussion: [Retrieving a Connection from the WebSphere Connection Pool](#retrieving_connections_from_websphere). |
|  |  |  |
| **Password**  **Confirm Password** |  | Specify the valid password for accessing the data source.  **NOTE:**  Refer also to this discussion: [Retrieving a Connection from the WebSphere Connection Pool](#retrieving_connections_from_websphere). |
|  |  |  |
| **Physical Schema** |  | This is the name of the physical schema.  This is especially useful when CE is deployed in different environments with different schema names in the data base. If the name of the physical schema is configured here, the system uses it as the actual schema: in executing SQL statements, it replaces the schema value with the value specified here. If the schema must be changed, the modification can be simply made here; it is not required to modify the schema values in XML parameter files. |

Procedure

To define a data source setting:

|  |
| --- |
| Do the following . . . |

|  |  |  |
| --- | --- | --- |
| 1. Run the Data Source Manage function from the User Manage function group. |  |  |
|  |  |  |
| 2. The Data Source Manage function window is displayed.  To create the settings for a Transaction or Security data source, go to the Transaction Data Source Manager and click on the Add button on the toolbar. |  |  |
|  |  |  |
| 3. The Data Source Config window is displayed.  Define the required details and click on the Save button.  **NOTE:**  Refer also to this discussion: [Retrieving a Connection from the WebSphere Connection Pool](#retrieving_connections_from_websphere). |  |  |
|  |  |  |
| **XML GENERATION:**  Log on as an Administrator or Operator user and run the XML Generator function for Data Source Manager. |  |  |
|  |  |  |
| The XML files for the defined Data Source settings are generated or updated:   * ee\_dsmgr.xml * sec\_dsmgr.xml   These are stored on this path: [Parameter Drive] \CE\_SYS\SYST |  |  |

|  |
| --- |
| **Retrieving a Connection from the WebSphere Connection Pool**  Generally, the system accesses the transaction and security data sources through the usernames and passwords specified in the Data Source Manage function. If these are not specified, CE uses the settings configured in WebSphere.  CE Utility Settings   * Run the Data Source Manage function. Remove the User Id, Password, and Confirm Password field values from the CET and CES data source settings. * Run the XML Generator function and generate the relevant XML files for Data Source Manager:   + [Parameter Drive]\CE\_SYS\SYST\ee\_dsmgr.xml   + [Parameter Drive]\CE\_SYS\SYST\sec\_dsmgr.xml   WebSphere Settings  Set up the username and password to be used for the CES and CET data sources.      **NOTE:**  Restart the CE server after creating these settings. |

Utility Data Source Manager Tab

The Utility Data Source Manger tab is used for defining the data sources that are to be used for configuring parameters and settings in the CE Utility. These are:

* Transaction, which is the data source used for storing transaction data. Additionally, this data source is required to enable the DB Reformat functionality of the CE Utility.
* Security, which is the data source used for storing security data.

Configuration

When defining a CE Utility data source, the following details are required in the Set User Profile Data Source window.

|  |
| --- |
|  |

Figure 3. Set User Profile Data Source Window

|  |  |  |
| --- | --- | --- |
| Field |  | Field Description |

|  |  |  |
| --- | --- | --- |
|  |  | ***Data Source Type*** |
|  |  |  |
| **Data Source Type** |  | This refers to the type of data source to be defined. Select Transaction for the transaction data source, or Meta for the Meta data source. |
|  |  |  |
|  |  | ***Data Source Config*** |
|  |  |  |
| **Utility DataSource** |  | Specify the name for the data source (e.g., CEMD). |
|  |  |  |
| **DB DataSource** |  | Specify the name of the database (e.g., CEDB). |
|  |  |  |
| **Host** |  | Specify the name or IP address of the host machine (e.g., localhost or 192.168.0.163) |
|  |  |  |
| **Schema** |  | Specify the schema of the data source (e.g., CEMETA) |
|  |  |  |
| **Server** |  | Specify the name or IP address of the database server (e.g., localhost). |
|  |  |  |
| **Port** |  | Specify the port number of the database (e.g., 1521) |
|  |  |  |
| **DB Version** |  | Select the database type and version from the dropdown list (e.g. Oracle 12c). |
|  |  |  |
|  |  | ***Database User Info*** |
|  |  |  |
| **DB User ID** |  | Specify the valid user Id for accessing the data source (e.g., CEMETA). |
|  |  |  |
| **DB User Name** |  | Specify the valid user name for accessing the data source (e.g., CEMETA). |
|  |  |  |
| **Password**  **Confirm Password** |  | Specify the valid user password for accessing the data source (e.g., CEMETA). |

Procedure

To define a CE Utility data source:

|  |
| --- |
| Do the following . . . |

|  |  |  |
| --- | --- | --- |
| 1. Run the Data Source Manage function from the User Manage function group. |  |  |
|  |  |  |
| 2. The Data Source Manage function window is displayed.  To define a CE Utility data source, go to the Utility Data Source Manager tab and click on the Add button on the toolbar. |  |  |
|  |  |  |
| 3. The Set User Profile Data Source window is displayed.  Define the required details and click on the Save button. |  |  |
|  |  |  |
| **XML GENERATION:**  Log on as an Administrator or Operator user and run the XML Generator function for Data Source Manager. |  |  |
|  |  |  |
| The XML files for defined Data Source settings are generated or updated:   * ee\_dsmgr.xml * sec\_dsmgr.xml   These are stored on this path: [Parameter Drive] \CE\_SYS\SYST |  |  |

Import/Export Business Unit

Any modification or new settings on an existing administrative setup by the Super Administrator must be exported to the relevant CE tables before these can be used. Specifically, these are settings that pertain to Area, Bank Group, Country Code, and Business Unit information.

|  |
| --- |
|  |

Figure 3. Import/Export Business Unit Function Window

noteNOTE: This function is also available to Administrator and Operator users. When run by these users, this function is used for importing the Application Server setting (APSERVER).

To export an administrative setting to the CE tables:

|  |
| --- |
| Do the following . . . |

|  |  |  |
| --- | --- | --- |
| 1. Run the Import/Export Business Unit function from the User Manage function group. |  |  |
|  |  |  |
| 2. The Import/Export Business Unit function window is displayed.  Select the relevant setting to be exported and click on the Edit button on the toolbar. |  |  |
|  |  |  |
| 3. The Export Business Unit window is displayed.  Select the data source to which the setting is to be exported, and click on the Export button. |  |  |
|  |  |  |
| 4. A confirmation message is displayed when the process is successfully completed. |  |  |

User Manage

There are three types of CE Utility users:

* Super Administrator (or Super System Administrator) – This type of user is responsible for creating Administrator users and other Super Administrator users; assigning the CE Utility functions of Administrator users; configuring data source settings; configuring and exporting bank-country group settings; and setting system parameters.
* Administrator (or System Administrator) – This type of user is responsible for creating Operator users and other Administrator users; assigning the CE Utility functions of these users; and defining the parameters required for building a module or business product.
* Operator – This type of user is responsible for creating the parameters that are required in building a module or business product.

The User Manage function is used for maintaining the profiles of CE Utility users and assigning their functions. It consists of two tabs: User Manager and Assigned Functions. When run by a Super Administrator user, this function is specifically used for managing Super Administrator and Administrator user profiles.

|  |
| --- |
|  |

Figure 3. User Manage Function Window

noteNOTE: This function is also available to Administrator users. When run by an administrator, this function is used for creating Administrator and Operator users and assigning their function rights.

Creating User Profiles

A Super Administrator user can create Super Administrator and Administrator users.

noteNOTE:

1. A super administrator can also modify and delete Administrator and other Super Administrator user profiles.
2. A super administrator can modify his own profile details.
3. A super administrator can modify and delete the function assignments of all Administrator users.
4. A super administrator cannot modify Operator user profiles.

Configuration

When creating a new user profile, the following details are required in the User Manager configuration window.

|  |
| --- |
|  |

Figure 3. User Manager Configuration Window

|  |  |  |
| --- | --- | --- |
| Field |  | Field Description |

|  |  |  |
| --- | --- | --- |
| **User Type** |  | Select the type of the user that is being created:   * Administrator: This type of user has limited administrative rights but is capable of creating transaction functions and configuring parameters such as product groups, Form rules, and Inbox settings. * Super Administrator: This type of user is capable of administrative tasks such as configuring unit settings, defining data sources, and managing user profiles.   **NOTE:**  If the creator (or logged-on) user is an Administrator user, the available options – user types that can be created – are Administrator and Operator. |
|  |  |  |
| **User ID** |  | Specify a unique Id for the new user.  This accepts a maximum of 12 alphanumeric characters. |
|  |  |  |
| **New Password**  **Confirm Password** |  | Specify the password of the new user.  This accepts 8 to19 alphanumeric characters. Special characters are also allowed.  **NOTE:**  The password defined in this field is to be encrypted and has a maximum of 32 characters once stored in the database. |
|  |  |  |
| **User Name** |  | Specify the name of the user.  This accepts a maximum of 16 alphanumeric characters. Special characters are also allowed. |
|  |  |  |
| **User Desc.** |  | Provide a description of the new user.  This accepts a maximum of 40 alphanumeric characters. Special characters are also allowed. |
|  |  |  |
| **Assigned By** |  | This defaults to the Id of the user that is creating this new user profile. This field is protected.  **NOTE:**  If the record is for the default Super Administrator user, this defaults to owner. |
|  |  |  |
| **Pwd History Numbers** |  | Specify the number of times that the password can be reused.  When a 0 value is defined in this field, the system ignores this feature. A maximum of 9 numeric characters can be specified in this field. |
|  |  |  |
| **Max Password Age** |  | Specify the maximum duration of the validity of the defined password. This duration pertains to the maximum number of days.  When a 0 value is defined in this field, the system ignores this feature. A maximum of 9 numeric characters can be specified in this field. |
|  |  |  |
| **Min Password Age** |  | Specify in this field the minimum duration of the validity of the defined password. This duration pertains to the minimum number of days.  When a 0 value is defined in this field, the system ignores this feature. A maximum of 9 numeric characters can be specified in this field. |
|  |  |  |
| **Account Lockout** |  | Specify the maximum allowable number of incorrect password input before the account is locked by the system.  When a 0 value is defined in this field, the system ignores this feature. A maximum of 9 numeric characters can be specified in this field. |
|  |  |  |
| **Password Encrypt Method** |  | Select the encryption method for the user password: BASE64 or MD5. |

Procedure

To create a user profile:

|  |
| --- |
| Do the following . . . |

|  |  |  |
| --- | --- | --- |
| 1. Run the User Manage function from the User Manage function group. |  |  |
|  |  |  |
| 2. The User Manage function window is displayed.  To create a new user profile, go to the User Manager tab and click on the Add button on the toolbar. |  |  |
|  |  |  |
| 3. The User Manager configuration window is displayed.  Specify the required details and click on the Save button. |  |  |
|  |  |  |
| The record is saved and shown in the grid. |  |  |

Assigning Functions to a User

A Super Administrator user is automatically assigned with a set of administrative functions in the CE Utility:

* Business Unit Config
* Data Source Manage
* Import / Export Business Unit
* User Manage
* Language Configuration
* System Parameters

An Administrator user, on the other hand, must be assigned with specific functions through the User Manage function.

A Super Administrator user can assign the functions of an Administrator user. These are functions from a specific bank-country group that, in turn, has its own Meta and Transaction data sources.

noteNOTE:

1. A user can be assigned with functions from multiple bank-country groups. This is discussed in the following section: [Assigning Multiple Data Sources to a User](#assign_multi_datasource_to_a_user).
2. An Administrator user can assign the functions of Administrator and Operator users.

Configuration

When assigning the functions of an Administrator user, the following details are required in the Assigned Functions window.

|  |
| --- |
|  |

Figure 3. Assigned Functions Window

|  |  |  |
| --- | --- | --- |
| Field |  | Description |

|  |  |  |
| --- | --- | --- |
|  |  | ***Set Group Name*** |
|  |  |  |
| **Group Name** |  | Select from the dropdown list the bank-country group to be assigned to the user.  This indicates that the function rights currently being set up are to apply when this user is accessing the bank-country group’s data sources. |
|  |  |  |
| **Is Default** |  | A user may be assigned to several bank-country groups, each of which corresponds to a set of Meta and Transaction data sources.  To indicate that the current set of data sources is the default set to which the user connects, mark the Is Default flag.  When there are several data source settings assigned to the user, these are listed in the data source grid. To set which one is the default, select it from the grid and mark the Is Default flag. |
|  |  |  |
|  |  | ***Assigned Functions*** |
|  |  |  |
| **Please Select** |  | This section displays all the available functions that the user may access. Use the selection buttons to assign the relevant functions to the user. |
|  |  |  |
| **Function** |  | This section displays the functions that are currently assigned to the user. |
|  |  |  |
|  |  | ***(Data Source List)*** |
|  |  |  |
| ***(Data Source List)*** |  | Generally, this grid lists all the bank-country groups to which the user is assigned with corresponding function rights.  **NOTE:**  When the function assignment currently being configured is later added to or modified, this grid displays the Meta and Transaction data sources that correspond to the selected bank-country group. |

Procedure

To assign functions to a user:

|  |
| --- |
| Do the following . . . |

|  |  |  |
| --- | --- | --- |
| 1. Run the User Manage function of the User Manage function group. |  |  |
|  |  |  |
| 2. The User Manage function window is displayed.  To assign the functions of a user, go to the Assigned Functions tab. |  |  |
|  |  |  |
| 3. Select the relevant user from the grid and click on the Add button on the toolbar. |  |  |
|  |  |  |
| 4. The Assigned Functions window is displayed.  Select the relevant bank-country group from the dropdown list.  Use the function lists and selection buttons provided to choose which functions to assign to the user.  Click on the Save button. |  |  |
|  |  |  |
| 5. The created function assignment is then displayed in the grid, showing also the bank-country group to which the user’s function rights apply. |  |  |

Assigning Multiple Data Sources to a User

Each bank-country group has its own Meta and Transaction data sources. A user may be assigned with functions from multiple bank-country groups and multiple Meta and Transaction data sources.

|  |
| --- |
| **Connecting to a Different Data Source**  A user, once assigned with multiple data sources, can connect to another data source while still logged on the CE Utility. To connect to another data source:   1. Access the Connect To option from the File menu of the CE Utility.      1. From the Connect window that is displayed, select the data source to access and click on the Connect button.      1. A confirmation message is displayed. Click on the OK button.   tmp7508 |

noteNOTE: A Super Administrator user can only manage the function assignments of Administrator users.

To assign another data source to a user:

|  |
| --- |
| Do the following . . . |

|  |  |  |
| --- | --- | --- |
| 1. Run the User Manage function from the User Manage function group. |  |  |
|  |  |  |
| 2. The User Manage function window is displayed.  Go to the Assigned Functions tab. |  |  |
|  |  |  |
| 3. Select the relevant user and click on the Add button on the toolbar. |  |  |
|  |  |  |
| 4. The Assigned Functions window is displayed.  The data source grid lists all the bank-country groups, each with its own Meta and Transaction data sources, which have already been assigned to the user. |  |  |
|  |  |  |
| To add another data source setting for this user, select another bank-country group from the Group Name field. |  |  |
|  |  |  |
| Define the function assignments of this user for the selected bank-country group and click on the Save button. |  |  |
|  |  |  |
| 5. The new function assignment is then displayed in the grid.  The bank-country groups assigned to the user are indicated in the Bank Group ID and Country Code columns. |  |  |

Modifying the Assigned Functions of a User

The function assignments of a user for a specific bank-country group can be modified.

noteNOTE: A Super Administrator user can modify the function assignments of all Administrator users.

|  |
| --- |
| Do the following . . . |

|  |  |  |
| --- | --- | --- |
| 1. Run the User Manage function from the User Manage function group. |  |  |
|  |  |  |
| 2. The User Manage function window is displayed.  Go to the Assigned Functions tab. |  |  |
|  |  |  |
| 3. Select the relevant user and click on the Edit button on the toolbar. |  |  |
|  |  |  |
| 4. The Assigned Functions window is displayed. |  |  |
|  |  |  |
| From the data source grid, select the relevant data source and bank-country group setting.  This displays the current function assignments of the user for the bank-country group. |  |  |
|  |  |  |
| Modify the assigned functions of the user as required and click on the Save button. |  |  |
|  |  |  |
| 5. To modify the function assignments of the user for another data source and bank-country group, select the relevant setting from the data source grid. Otherwise, click on the Cancel button. |  |  |

Deleting the Assigned Functions of a User

A user’s function assignments for a specific bank-country group may be deleted.

noteNOTE: A Super Administrator user can delete the function assignments of all Administrator users.

|  |
| --- |
| Do the following . . . |

|  |  |  |
| --- | --- | --- |
| 1. Run the User Manage function from the User Manage function group. |  |  |
|  |  |  |
| 2. The User Manage function window is displayed.  Go to the Assigned Functions tab. |  |  |
|  |  |  |
| 3. Select the relevant user and click on the Delete button on the toolbar. |  |  |
|  |  |  |
| 4. The Assigned Functions window is displayed. |  |  |
|  |  |  |
| From the data source grid, select the relevant data source and bank-country group setting. Click on the Delete button.  A message confirming the deletion is displayed. Click on the Yes button. |  |  |
|  |  |  |
| **NOTE:**  This is the confirmation message if the setting to be deleted is the default data source and bank-country group setting of the user. |  |  |
|  |  |  |
| This is the confirmation message if the setting to be deleted is not the default data source and bank-country group setting of the user. |  |  |
|  |  |  |
| 5. To delete the function assignments of the user for another data source and bank-country group, select the relevant setting from the data source grid. Otherwise, click on the Cancel button. |  |  |

Parameter Management Functions

INTRODUCTION TO THE PARAMETER MANAGEMENT FUNCTIONS

Chapter Four

SYSTEM PARAMETERS

Introduction to the Parameter Management Functions

The Parameter Manage function group consists of system-wide functions used for creating and maintaining parameters and components.

For the Super Administrator user, the following functions are provided in the Parameter Manage function group:

* Language Configuration
* System Parameters

|  |
| --- |
|  |

Figure 4. Parameter Manage Function Group

noteNOTE:

1. The Language Configuration function is discussed in the *CE Multi-Language Reference.*
2. There are Parameter Management functions that are available only to Administrator and Operator users. Refer to the *CE Utility Reference: Parameter Manager Functions*.

System Parameters

The System Parameters function is used for maintaining security parameters or global system parameters. Their settings, most of which identify programs or parameters to the system, are applied throughout the CE system.

warningWARNING! Any change to any of the security parameters affects the performance of the system.

|  |
| --- |
|  |

Figure 4. System Parameters Function

**noteNOTE:** The non-global system parameters are defined by an Administrator or Operator user through the System Parameter function. Refer to the *CE Utility Reference: Parameter Manager Functions*.

Defining System Parameters

When defining a new system parameter, the following details are required in the New Parameter Config window.

|  |
| --- |
|  |

Figure 4. New Parameter Config Window

|  |  |  |
| --- | --- | --- |
| Field |  | Field Description |

|  |  |  |
| --- | --- | --- |
| **Parameter Name** |  | Specify a name for the new system parameter.  **NOTE:**  For a list of the global system parameters in the CE Utility, refer to the [Available Global System Parameters](#available_global_sys_parameters) section in this chapter. |
|  |  |  |
| **Parameter Attribute** |  | Select the parameter attribute from the dropdown list: Common. |
|  |  |  |
| **Parameter Value** |  | Specify the value of the system parameter manually or browse for this using the accompanying browse button. |
|  |  |  |

|  |  |  |
| --- | --- | --- |
| **CDATA** |  | Select this flag in case the parameter value contains special characters that must be accepted by the system. |
|  |  |  |
| **Parameter Desc** |  | Specify a description for the new parameter. |

To define a system parameter:

|  |
| --- |
| Do the following . . . |

|  |  |  |
| --- | --- | --- |
| 1. Run the System Parameters function from the Parameter Manage function group. |  |  |
|  |  |  |
| 2. The System Parameters window is displayed.  To define a new system parameter, click on the Add button on the toolbar. |  |  |
|  |  |  |
| 3. The New Parameter Config window is displayed.  Specify the required details and click on the Save button.  The new system parameter is then listed on the System Parameters function window. |  |  |
|  |  |  |
| **XML GENERATION:**  Log on as an Administrator or Operator user and run the XML Generator function for System Parameter. Select the Security System Parameter option from the XML Generator – System Parameter window. |  |  |
|  |  |  |
| The following XML files for the defined system parameter are generated or updated:   * sys\_para.xml, which contains the details of all defined global system parameters * sec.report.xml, which contains the report server details for report generation   These are stored on this path: [Parameter Drive] \CE\_SYS\SYST |  |  |

Available Global System Parameters

The following are the available default global system parameters in the CE Utility, those which settings are applied throughout the system.

**noteNOTE:**

1. Global system parameters are also referred to as security parameters.
2. The SCHEMA\_REF security parameter is *currently not used*.

|  |  |  |
| --- | --- | --- |
| **System Parameter** |  | **Description** |

|  |  |  |
| --- | --- | --- |
| **AMT\_ROUND\_ FMT** |  | This is used to control whether or not numeric values with decimals are rounded to the nearest hundredths. This parameter may have any of the following values:   * T, in which the numeric value is rounded to the nearest hundredths (e.g., 3.526 is displayed as 3.53); or * F, in which all decimal numbers after the hundredths place are dropped without rounding off to the nearest hundredths (e.g., 3.526 is displayed as 3.52).   The default value is T. |
|  |  |  |
| **ASYNCHRONOUS\_GAPI** |  | This is used to control whether or not asynchronous GAPI is enabled. This parameter may have any of the following values:   * True, in which asynchronous GAPI is enabled. Upon transaction release, the corresponding GAPI message is generated, which are later sent out by a new batch task. * False, in which asynchronous GAPI is disabled and the synchronous GAPI is used. The GAPI message is sent out at the same time as the transaction is released.   The default value is False. |
|  |  |  |

|  |  |  |
| --- | --- | --- |
| **AUTH\_CLASS\_ PREFIX** |  | This is used to define the prefix of a class name in setting up an authorization rule.  **EXAMPLE**:  If the AUTH\_CLASS\_PREFIX parameter is set to User Class, the classes in the Add Authorization Rules function are User Class 1, User Class 2, and User Class 3. |
|  |  |  |
| **AUTH\_CLASS\_ SUFFIX** |  | This is used to define the suffix of a class name in setting up an authorization rule.  If the specified value is L, the suffix to be applied is a capital letter and the sequence starts from A. That is, the classes in the Add Authorization Rules function are Class A, Class B, Class C, and so on.  If the parameter’s value is not L, or if this parameter is undefined, the suffix defaults to numbers starting from 1. That is, the classes in the Add Authorization Rules function are Class 1, Class 2, Class 3, and so on. |
|  |  |  |
| **BANK\_AUTH\_ RULE** |  | This is used to control whether or not the bank authorization rule takes effect.  When this system parameter is set to XML, the system follows the authorization rule defined in the Product Authorize Setting function of the CE Utility. Otherwise, the authorization rule defined in the browser-side Security Module is applied; thus, the authorization rule defined in the Product Authorize Setting function only serves as a dummy authorization rule. |
|  |  |  |
| **BATCH\_SERVER\_URL** |  | If the system runs without EJB, this parameter is used to define the batch server URL. The value of this parameter follows this format:  http://<CE Server IP Address>:<Port Number>/<Context Root Name>/servlets/RunBatchManager  **NOTE**:  A fixed IP address must be used (i.e., “localhost” cannot be used). |
|  |  |  |

|  |  |  |
| --- | --- | --- |
| **BIRT\_SERVER\_ URL** |  | This is used to define the path to the BIRT server, which follows this format:  http://<BIRT IP address>:<port number>/<context root name>/servlets/GetBirtData  **EXAMPLE**:  http://127.0.0.1:9080/BIRTWEB/servlets/GetBirtData |
|  |  |  |
| **BYREGION** |  | This is used to control whether or not the regional country code is enabled for security management. This parameter may have any of the following values:   * True, which allows the bank unit administrator to manage security customer-related details by regional country code; or * False, which does not allow the bank unit administrator to manage security customer-related details by regional country code.   The default value of this parameter is False. |
|  |  |  |
| **CALL\_EJB\_MODE** |  | If the system is to be run without EJB, this parameter must be set to CLASS. If this parameter is not defined or its value is set to blank, the system is run on EJB mode. |
|  |  |  |
| **CATALOG\_ IGNORE\_CASE** |  | This is used to define whether or not the Catalog or Search Filter functionality is case sensitive. This parameter may have either value:   * T, which indicates that it is not case sensitive * F, which indicates that it is case sensitive   **NOTE:**  Another way to define whether it is case sensitive or not is through the Case Type field in the Set Catalog dialog box when defining catalog settings for a function (through the Catalog function component). When the defined values for the CATALOG\_IGNORE\_CASE system parameter and the Case Type field are different, the system uses the setting defined in the Case Type field. For more details on configuring catalog settings, refer to the *CE Building a Product* and *CE Utility Reference: Transaction Functions* manuals. |
|  |  |  |
| **CCY\_DESC\_ FIELD** |  | This is used for defining which field is to be used to set up the currency description. The value of this system parameter may be a field name in the STD\_CURRENCY table; for example: C\_CURRENCY\_DESC. |
|  |  |  |
| **CCY\_CATALOG\_ SHOW\_DESC** |  | This is used for controlling whether or not the currency description is displayed in the catalog. This system parameter may have one of the following values:   * T, in which the currency description is shown in the catalog * F, in which the currency name is shown in the catalog   The default value is F. |
|  |  |  |
| **COMMUNICATION\_TYPE** |  | This is used to define the connection type of the Web and Application servers. This can be blank or may have one of the following values:   * MQ * HTTPS * RMI |
|  |  |  |
| **COMPARE\_ EVENT\_IGNORE\_ CASE** |  | This is used to define the case sensitivity settings of the Compare Event function. This parameter may have one of the following values:   * TRUE, in which the fields in the Compare Event function are not case sensitive. * FALSE, in which the fields in the Compare Event function are case sensitive.   The default value is TRUE. |
|  |  |  |
| **CONTEXTFACTORY** |  | This is used to ensure that the Batch Manager function works properly. The value depends on the application server used:   * For WebSphere, this must be set to: com.ibm.websphere.naming.WsnInitialContextFactory * For WebLogic, this must be set to: weblogic.jndi.T3InitialContextFactory |
|  |  |  |

|  |  |  |
| --- | --- | --- |
| **CSRF\_GLOBAL\_ ONLY** |  | This is used to control whether or not the system uses the same CSRF token value for function level and global level. This parameter may have any of the following values:   * TRUE, in which the system uses only one session global CSRF token for both the function level and the global level; or * FALSE, in which the system uses different global CSRF tokens for the function level and the global level.   **NOTE:**  If the PARALLEL\_PROCESS system parameter is set to TRUE, the CSRF\_GLOBAL\_ONLY system parameter must be set to TRUE as well. |
|  |  |  |
| **COOKIE\_ SECURITY** |  | This parameter may have either one of the following values:   * HttpOnly: This restricts access from other non-HTTP APIs such as JavaScript. * SECURE: This ensures that the cookie is always encrypted when transmitting information from client to server. * HttpOnly;SECURE: This is a combination of the HttpOnly and SECURE attributes. |
|  |  |  |
| **CUBK\_NOCASE\_ AND\_CASE** |  | This is used to define whether the Get CUBK condition setting is case sensitive.  The setting is case sensitive if:   * The value of this system parameter is DYNAMIC; and * The value of the CHK\_IGNORE\_CASE setting is true.   **NOTE:**  The value of CHK\_IGNORE\_CASE is set in [CEWeb.war]\screen\SYS\_InqCUBK.jsp. For example:  <input type="text" name="SEARCH\_FLD" id="SEARCH\_FLD" value=" " />  <input type="text" name="SEARCH\_OP" id="SEARCH\_OP" value="LIKE" />  <input type="text" name="SEARCH\_VALUE" id="SEARCH\_VALUE" value="" />  <input name="CHK\_IGNORE\_CASE" type="hidden" id="CHK\_IGNORE\_CASE" value="true"> |
|  |  |  |

|  |  |  |
| --- | --- | --- |
| **DAOLOGTYPE** |  | This controls how SQL statements are shown on the log file. When set to EXECUTABLE, the statements produced can be used as SQL commands.  **EXAMPLE:**   * If this parameter is not defined, the SQL in the log is:   INSERT INTO CEUSER.SEC\_LOGIN\_SESSION (C\_BK\_GROUP\_ID,C\_UNIT\_CODE,C\_USER\_ID,C\_SESSION\_ID,C\_IS\_INFORM) VALUES (?,?,?,?,?) {(C\_BK\_GROUP\_ID#12:CSBANK),(C\_UNIT\_CODE#12:CSOFFICE),(C\_USER\_ID#12:superofficer),(C\_SESSION\_ID#12:J3BJDwAJmCRHWmAF8em0AwI),(C\_IS\_INFORM#1:F)}   * If this parameter is set to EXECUTABLE, the SQL in the log is:   INSERT INTO CEUSER.SEC\_LOGIN\_SESSION (C\_BK\_GROUP\_ID,C\_UNIT\_CODE,C\_USER\_ID,C\_SESSION\_ID,C\_IS\_INFORM) VALUES ('CSBANK','CSOFFICE','superofficer','YGiE9onHVTkSKnTNbmzgfFD','F') |
|  |  |  |
| **DECRYPT\_ FIELDS** |  | This is used to define the fields to be encrypted during logon to the CE browser. Multiple fields are separated by a semicolon ( ; ).  **EXAMPLE:**  <DECRYPT\_FIELDS attr="C">C\_PASSWORD;C\_USER\_ID;C\_BUSINESS\_UNIT</DECRYPT\_FIELDS> |
|  |  |  |
| **DELETE\_SHOW\_ SCREEN** |  | This is used to control whether or not the full transaction page (or record) is shown when running the Delete function of a standing, security, or transaction module. The value may either be TRUE or FALSE. |
|  |  |  |
| **DISABLE\_ CSRFTOKEN** |  | This controls whether or not the system checks the token to prevent CSRF attacks. This parameter may have either one of the following values:   * TRUE, in which the token is not checked * FALSE, in which the token is checked to prevent CSRF attacks. This is the default value. |
|  |  |  |

|  |  |  |
| --- | --- | --- |
| **DISABLE\_ HTTPHOSTCHECK** |  | This is used to control whether or not the system checks for HTTP host attacks. This parameter may have either one of the following values:   * TRUE, in which the HTTP host check is disabled; or * FALSE, in which the HTTP host check is enabled and the setting of the HTTPHOST\_LIST system parameter is used.   The default value is True. |
|  |  |  |
| **DISPLAY\_ERR\_TS\_ON\_SRCN** |  | This is used to control whether or not the timestamp is displayed together with an error message. This parameter may have either of the following values:   * TRUE, in which the error message timestamp is displayed; or * FALSE, in which the error message timestamp is not displayed.   The default value is False.  **NOTE:**  When this system parameter is set to TRUE, the timestamp is only displayed for error messages with the following settings:   * Error Key: System * Error Level: Error |
|  |  |  |
| **DISTINGUISH\_ USER\_LOG\_TYPE** |  | When the Single Sign On feature is enabled, this system parameter is used to distinguish log entries of different user types for activity logs during logon. This may have any of the following values:   * True, in which the logs are distinguished by user type.  **EXAMPLE:** Successful logon of non-SSO user: Login Successful logon of SSO user: SSOLogin Failed logon of non-SSO user: LoginFail Failed logon of SSO user: SSOLoginFail * False, in which the logs are not distinguished by user type.  **EXAMPLE:** Successful logon of both non-SSO and SSO users: Login Failed logon of both non-SSO and SSO users: LoginFail |
|  |  |  |
| **EXCHANGERATEBYCOUYNTRY** |  | This is used to control whether or not the system takes the value of the C\_CNTY\_CODE field as a condition when calculating exchange rates. The exchange rate value is then retrieved from the C\_EX\_RATE\_CNTY field of the SEC\_BUSINESS\_UNIT table. This parameter may have either one of the following values:   * TRUE, in which the C\_CNTY\_CODE field is taken as a condition; or * FALSE, in which the C\_CNTY\_CODE field is not taken as a condition.   The default value is false.  **NOTE:**  For CE versions lower than version 3.2.0, this parameter is defined as ExchangeRateByCountry. For versions 3.2.0 and above, it is defined in all uppercase letters. |
|  |  |  |
| **ENABLED\_ CLIENT\_COOKIE** |  | This parameter is used to identify whether the application server disabled the cookie or not. The value is either T or F. |
|  |  |  |
| **EXTEND\_SESSION\_LAYER** |  | This is used to control how the extend session notification is to be displayed: through a popup window or a float layer.   * TRUE, in which a float layer is shown as a notification for extending the session. This is made available in transaction, security, standing, and system modules. * FALSE, in which the standard logic is applied and a popup window is displayed as a notification for extending the session. This is made available in pending transactions only.   The default value is FALSE. |
|  |  |  |
| **EXTERNAL\_DS\_ CLASS** |  | This is used to define the class of the data source to be used. If the value is not null, the system uses the class specified here to get the database connection, instead of the default system method. |
|  |  |  |
| **FAIL\_WAIT\_TIME** |  | When asynchronous GAPI is enabled and the sending of one or more GAPI messages failed, this system parameter is used to define the number of minutes before the system attempts to send the messages again. The default value is 30 minutes. |
|  |  |  |
| **FAST\_CREATE** |  | This is used to control whether or not it is allowed to create companies and users from the security template when applying the Alternative Entitlement Allocation process.  This parameter may have one of the following values:   * TRUE, in which companies and users can be created from the security template. * FALSE, in which companies and users cannot be created from the security template.   The default value is FALSE.  **NOTE:**  Refer to the *Security and System Maintenance Functions* documentation for more details on the Alternative Entitlement Allocation process. |
|  |  |  |
| **FILTER\_RECORD\_BYSTRUCT** |  | This is used to control whether or not the catalogs of functions in the Operator Assign Role and Admin Assign Role groups must filter records by structure.  This may have any of the following values:   * T, in which catalog records are filtered by structure through the addition of the Parent ID condition. * F, in which catalog records are not filtered by structure and the Parent ID condition is not added. |
|  |  |  |
| **FLDC\_CACHE\_ DESC** |  | This is used to define whether or not the Field Conversion functionality is optimized. This may have a TRUE or FALSE value.  When the value is set to TRUE, the system performance is optimized by directly retrieving the values of the Field Conversion fields from the session instead of the static XML files or tables when loading transaction screens for the Release or Inquire functions.  This functionality only works for transaction screens. For the system screens that use the BTAGFldConversion tag (e.g., screen for uploading images), the alwaysGetData property has to be added and set to TRUE; this indicates that the field values are retrieved from the XML files or tables. |
|  |  |  |
| **GAPI\_SELECT\_ COUNT** |  | When asynchronous GAPI is enabled, this is used to define the number of GAPI messages to be selected from CETRX.TRX\_GAPI\_ASYNC table. These selected messages are sent out together by a batch task. The default value is 10. |
|  |  |  |
| **GAPI\_SEND\_TIME** |  | This is used to define the intervals in milliseconds for running the batch task in the system.  The value of this parameter involves 2 conditions:  Increase interval  Increase the interval in the following instances in order to reduce the inserted log time and enhance the performance of the system:   * If the batch framework enhancement is disabled * If there are no large amounts of data to be uploaded * If files are to be uploaded to the CE system only   Reduce interval  Reduce the interval in the following instances:   * If the Batch framework enhancement is enabled * If large amounts of data are to be uploaded to the back-office system |
|  |  |  |
| **GLOBAL\_BATCH\_ SET** |  | This is used to define whether or not the Global Batch function is enabled. This may have one of the following values:   * TRUE, in which the global batch function is enabled. The value is set to TRUE when the task of each entity listens to the same queues. (The message is received by the task of the specific entity defined in [PARAMETER DRIVE]\CE\_SYS\ global\_batch\_reference.xml. The system distributes the message to the correct entity and does further processing according to the entity information in the message content.) * FALSE, in which the global batch function is disabled; this is the default value. The value is set to FALSE when the task of each entity listens to different queues. |
|  |  |  |
| **HASH\_SESSION\_ID** |  | This is used to control whether or not the system hashes the session id value.  This may have one of the following values:   * TRUE, in which the system hashes the session id value in the database. * FALSE, in which the system stores clear text for the session id value in the database.   The default value is FALSE. |
|  |  |  |
| **HEARTBEAT\_ LOGGING** |  | This is used to control whether or not the running logs for the batch processes and listeners are recorded in the related log files.  By default, the system writes the logs. No log is written only when this system parameter is set to FALSE. |
|  |  |  |
| **HTTPHOST\_LIST** |  | This is used to define legal hosts in order to prevent Host Header Poisoning vulnerability. If more than one host are to be defined, separate hosts by using semicolons ( ; ).  To enable this setting, the DISABLED\_HTTPHOSTCHECK must first be set to FALSE. |
|  |  |  |
| **HTTPS\_AP\_ HOST\_ADDR** |  | If the COMMUNICATION\_TYPE value is HTTPS, define the application server host address in this system parameter. |
|  |  |  |
| **HTTPS\_AP\_ HOST\_PORT** |  | If the COMMUNICATION\_TYPE value is HTTPS, specify the application server port number in this parameter. |
|  |  |  |
| **HTTP\_MAC\_ ALGORITHM** |  | This is used to define which algorithm is used to do MAC’ing for the transaction data. Its value can either be HmacMD5 or HmacSHA1. |
|  |  |  |
| **HTTP\_MAC\_ KEYSTORE\_FILE** |  | This is used to define the path of the keystore file that contains the key used for generating MAC. |
|  |  |  |
| **HTTP\_MAC\_ KEYSTORE\_ PASSWORD** |  | As the keystore file is normally encrypted, this parameter is used for defining the password to open the keystore file. |
|  |  |  |
| **HTTP \_MAC\_ KEY\_ALIAS** |  | This is used to specify the key’s alias in the keystore file that is used for retrieving the key. |
|  |  |  |
| **HTTP\_MAC\_ KEY\_PASSWORD** |  | This is used to set the password for retrieving the key from the keystore file. |
|  |  |  |
| **JESSION\_ID\_ NAME** |  | This security system parameter is used to define the name of the web cookie. If this parameter is not set up, the system uses JSESSIONID as the default value. |
|  |  |  |
| **JNDI\_JMS\_ COMMUNICATOR \_FACTORY** |  | This is used to set the Queue Connection Factory JNDI name. |
|  |  |  |
| **JNDI\_JMS\_ COMMUNICATOR \_RECV\_QUEUE** |  | If the COMMUNICATION\_TYPE value is MQ, specify the queue name for receiving messages in this parameter. |
|  |  |  |
| **JNDI\_JMS\_ COMMUNICATOR \_SEND\_QUEUE** |  | If the COMMUNICATION\_TYPE value is MQ, specify the queue name for sending messages in this parameter. |
|  |  |  |
| **LOGIN\_IGNORE\_CASE** |  | This is used to define the case sensitivity settings of the logon page. When the value is set to T, the Login ID and Unit Code fields on the logon page are not case sensitive. If it is set to any other value (e.g., F), the fields are case sensitive. |
|  |  |  |
| **MAIL\_ADDR\_ FIELD\_NAME** |  | When e-mail notification is enabled, this system parameter is used to define the field that stores the e-mail address to which e-mail notifications are to be sent (e.g., C\_PRIVATE\_MAIL). This field must be included in the CEUSER.SEC\_USER\_INFO table. |
|  |  |  |
| **MAIL\_TRX\_LINK\_EXPIRY** |  | When an e-mail notification is sent to a user’s registered e-mail address with a hyperlink that leads directly to the relevant transaction record, this system parameter is used to specify the length of time before the link expires.  The following indicators may be used to define parameter value:   * D, which refers to the number of days before the link expires (e.g., 2 days is specified as 2D); * H, which refers to the number of hours before the link expires (e.g., 4 hours is specified as 4D); and * M, which refers to the number of minutes before the link expires (e.g., 5 minutes is specified as 5M).   These indicators can be used separately or be together in any combination.  If this system parameter is not defined, or its value is null or has an invalid format, the link has no expiration.  **EXAMPLE:**  1D2H3M means the link expires after 1 day, 2 hours, and 3 minutes.  1D20M means the link expires after 1 day and 20 minutes.  2H30M means the link expires after 2 hours and 30 minutes.  5M means the link expires after 5 minutes. |
|  |  |  |
| **MAX\_EXPORT\_ COUNT** |  | This is used to define the maximum number of records that can be exported from the catalog screen. |
|  |  |  |
| **MAX\_INACTIVE\_ DAYS** |  | This is used to define the maximum number of days a user account can remain inactive before the system inactivates it. |
|  |  |  |
| **MAX\_LOGON\_ RETRIES** |  | This is used to define the maximum number of times the user can enter an incorrect password (unsuccessful logon attempts) before the user account is locked by the system.  **NOTE:**  This is also applied to check the number of times an incorrect password is indicated in the Change User Profile function. |
|  |  |  |
| **MLG\_PROFILE** |  | This is used to define the Multi-Language setting to be used. The value of this system parameter has two parts. The first is for transaction modules and the second is for the Security Module. Each part may have one of the following values:   * B, wherein the system uses the browser’s language setting; * S, wherein the system uses the configured language profile preference in CE Utility. * F, in which the multi-language feature is deactivated. When this value is used, the system shows the default language. It neither uses the browser’s language setting nor the configured language profile preference for the current user.   **EXAMPLE**:  The requirement is this: on the transaction side, the browser’s language setting must be followed; on the security side, the multi-language setting must be deactivated. The parameter value must then be BF. |
|  |  |  |
| **NO\_TOKEN\_ CHECK\_REQ** |  | This is used for defining the parameter from the page or action URL that is not going to be checked by the system. Multiple values can be defined, each separated by a semi-colon (;).  **EXAMPLE:**  If this system parameter is set to PWD\_CHECK;USERPROFILE, then the system does not check the PWD\_CHECK and USERPROFILE values on the URL. |
|  |  |  |
| **NO\_TOKEN\_ CHECK\_SVT** |  | This is used to define unchecked servlet settings. The value is the url-pattern value that is set in Web.xml. The values to be defined are separated by ";". In addition, the servlet can simply be added as a value of this parameter.  **EXAMPLE:**  screen/SYS\_UserProfile.jsp;/servlets/CELoginAuthorizationManager;/servlets/WSSGetUserProfile |
|  |  |  |
| **NO\_TOKEN\_ CHECK\_URI** |  | This is used to define unchecked file request. If the URI ends with a value that is defined in the setting, the request does not check the token. The values to be defined are separated by ";". The following are the file extensions used:.js, .htm, .html, .css, .jpeg, .png, .gif, .ico, .bmp, .jpg, .tiff, .pcx, .tga, .exif, .fpx, .svg, .psd, .cdr, .pcd, .dxf, .ufo, .eps, .ai, .raw  **EXAMPLE:**  <NO\_TOKEN\_CHECK\_URI attr="C">.JS;.CSS</ NO\_TOKEN\_CHECK\_URI > |
|  |  |  |
| **PARA\_FILE\_FORMAT** |  | This is used to define the parameter folder structure to be utilized by the CE system.  This system parameter may have one of the following values:   * NU, in which the parameters generated by the CE New Utility are used by the CE system. * LEGACY, in which the parameters generated in the standard CE Utility (e.g., CSBANK folder) are used by the CE system.   If this parameter is set to LEGACY, the CE core system is not able to use the parameters that are currently in CE NU. |
|  |  |  |
| **PARALLEL\_ PROCESS** |  | This is used to enable or disable the parallel process in CE. This may have one of the following values:   * T, in which the parallel process is enabled. Multiple functions can be processed as the same time. A hyperlink is provided in the function catalog screens, which can be used to jump from one function to another. * F, in which the parallel process is disabled.   The default value is F. |
|  |  |  |
| **PASSWORD\_ VERIFY** |  | This system parameter is used to control whether or not the user password is verified:   * TRUE, wherein the system performs password verification of CE browser users through this file – [Parameter Drive]\CE\_SYS\password\_verification.xml * FALSE, wherein no password verification is performed.   The default value is FALSE. |
|  |  |  |
| **PHONE\_FIELD\_ NAME** |  | When SMS notification is enabled, this system parameter is used to define the field that stores the phone number to which SMS notifications are to be sent (e.g., C\_PHONE\_NO). This field must be included in the CEUSER.SEC\_USER\_INFO table. |
|  |  |  |
| **PRIVATEMAIL\_URL** |  | When an e-mail notification is sent to a user’s registered e-mail address with a hyperlink that leads directly to the relevant transaction record, this system parameter is used to specify the URL to be used for the hyperlink.  The parameter value must be defined in this format:  http://[IP Address]:[Port]/CEWeb/servlets/WSSEmailLink |
|  |  |  |
| **PSW\_EXPIRED\_ CHANGE** |  | This is used to control whether or not the system allows the CE user to reset the account password after it expires. This can have either of the following values:   * TRUE, in which password reset is allowed after the password expires. The user is directed to the Change Password screen after logging on to CE. * FALSE, in which pass reset is not allowed after the password expires. An error message is displayed after the user logs on to CE. |
|  |  |  |
| **PSW\_EXPIRE\_ DAYS** |  | This is used to define the number of days the password can be used for logging on to the system. After the specified number of days, the password expires or is no longer valid for use, and must therefore be reset. |
|  |  |  |
| **PSW\_EXPIRE\_ NOTIFY\_DAYS** |  | This is used to set the number of days prior to the actual expiration date of the password when a notification is sent.  **EXAMPLE**:  The password is set to expire in 10 days and the PSW\_EXPIRE\_NOTIFY\_DAYS is set to 2. A notification is displayed on the 8th day, which is 2 days before the expiration date. |
|  |  |  |
| **PSW\_HISTORY\_ NUM** |  | This indicates the number of times that the user must use another password before utilizing the previously used password again.  **EXAMPLE:**  The password used is 123pass and the value of PSW\_HISTORY\_NUM is set to 2. On the first instance that the password is to be changed, the 123pass password cannot be used, therefore, another password must be used. On the second time, another password must still be used. On the third instance that the password is to be changed, the 123pass password can then be utilized again. |
|  |  |  |
| **REFUSESEND MAIL** |  | This system parameter may have either value:   * TRUE, in which the system sends an e-mail when a transaction is refused. * FALSE, in which the system does not send an e-mail when a transaction is refused. |
|  |  |  |

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| --- | --- | --- |
| **RELEASE\_MODE** |  | This is used to define the setting to be used when displaying the Release screen.  If the value is set to ORIGINAL\_PAGE, the original transaction screen is used for the Release function, while the other sections of the Release function – Release and Refuse buttons – are dynamically displayed.  When another value or none is defined, only the Release page is displayed when the Release function is run. |
|  |  |  |
| **RELEASE\_ VERIFY** |  | This is used to define whether or not the system is to perform a verification process when a transaction is released. This system parameter may have one of the following values:   * TRUE, wherein the system performs verification after transaction release (i.e., thru Password, PKI or VASSCO). * FALSE, wherein no verification is performed.   The default value is FALSE. |
|  |  |  |
| **RTL** |  | This is used to change how widgets, transaction functions, and error messages are displayed on the CE page: certain elements are re-arranged from right to left.  For widgets –   * The hyperlinks follow this order – Sign Out, Help, Personalize, [User Name] – instead of: [User Name], Personalize, Help, and Sign Out. * The Title and Description elements, when personalizing a widget, are right-aligned. * The functions from these widgets are right-aligned: Main Menu and its Search tool, Quick Access, and Recent Functions. * The descriptions are displayed on the right: Upload Message, Welcome, Criteria Search, * Calendar Events: The weekends and weekdays are displayed from right to left. * The elements are reversed: Exchange Rate (rates first, then the currencies), Summary, Notification.   For transaction functions:   * The tabs and buttons are displayed in reversed order. * The field descriptions are displayed on the right.   For error messages:   * The error messages are right-aligned.   To enable this right-to-left style, set the value of this system parameter to:  dir:rtl |
|  |  |  |
| **SAVE\_VALIDATION** |  | This is used to control whether or not server side validation is performed once a transaction is saved.  This may have any of the following values:   * TRUE, in which server side validation is performed upon saving a transaction. * FALSE, in which no server side validation is performed upon saving a transaction.   The default value is FALSE.  **NOTE:**  Due to incomplete transaction data when saving, the system does not perform server side validation in versions earlier than CE Version 3.3.6. However, some projects request to validate the value of protected fields by Server Side JS once the transaction is saved or confirmed. Thus, this parameter is provided to avoid impact to projects that do not require validation when saving. |
|  |  |  |
| **SECU\_EXT\_ RESPONSE\_ HEADER** |  | This is used to define the security attributes in the HTTP response header. More than one attribute can be defined. Separate multiple attributes by using \r as in the example below.  **EXAMPLE:**  Strict-Transport-Security:max-age=16070400;includeSubDomains\rX-XXS-Protection:1;mode=bllock\rContent-Security-Policy:default-src ‘unsafe-inline’ ‘unsafe-eval’ http://10.39.104.39:39083 |
|  |  |  |
| **SMS\_SERVER\_ SEND\_TYPE** |  | When SMS notification is enabled, this system parameter defines how the SMS notifications are sent out. This may have any of the following values:   * BATCH, in which multiple SMS messages are sent out by batch. If one message fails, all the messages in the batch cannot be sent. The thread used is found in the CETRX.TRX\_SMS table. * SINGLE, in which one SMS message is sent at a time with each message having its own status. The thread used is found in the CETRX.TRX\_SMS\_RECVER\_INFO table. |
|  |  |  |
| **SRV\_TIME\_ FORMAT** |  | This is used to define the time format to be used for timezone settings. This may have any of the following values:   * Server; or * GMT. |
|  |  |  |
| **SSO\_CHECK\_ID** |  | When using the Single Sign On facility, this security system parameter indicates whether or not the filter must check the incoming requests to the system. This system parameter may have one of the following values:   * TRUE, in which incoming requests are checked by the filter. * FALSE, in which incoming requests are not checked by the filter.   The default value is False.  Refer to the CE installation guides for more details on the Single Sign On facility configuration. |
|  |  |  |
| **SSO\_GROUP\_ID** |  | Used for the SSO logon information, this system parameter refers to the HTTP header variable name that contains the group Id and user Id of the user logging on to the system.  Refer to the CE installation guides for more details on the Single Sign On facility configuration. |
|  |  |  |
| **SSO\_GRP\_ID\_ REGEXP** |  | This is used for the SSO logon information. CE retrieves the Group Code and User Id from the request header (i.e., SSO\_GRP\_ID).  The system uses this REG expression to drag the group code from the SSO\_GRP\_ID value.  Refer to the CE installation guides for more details on the Single Sign On facility configuration. |
|  |  |  |
| **SSO\_LOGOFF\_ LOCATION** |  | This is used for the SSO logon information. When a user that is logged on using the SSO facility logs off from CE, the user may be redirected to a customized log off page, or a different website (e.g. bank portal). The value of this system parameter contains the redirect path.  **NOTE:**   * + 1. The application server formats the location header into a URL that is compatible or readable by the client device.     2. If a slash (/) is added before the parameter value, the application server formats the URL as:  http://[server address]:[port]/[parameter value]     3. If there is no slash (/) before the parameter value, the application server formats the URL as:  http://[server address]:[port]/CEWeb/servlets[parameter value]   Refer to the CE installation guides for more details on the Single Sign On facility configuration |
|  |  |  |
| **SSO\_USER\_ID** |  | Used for the SSO logon information, this system parameter refers to the HTTP header variable name that contains the User Id of the user logging on to the CE system.  Refer to the CE installation guides for more details on the Single Sign On facility configuration. |
|  |  |  |
| **SSO\_USER\_ID\_ REGEXP** |  | This is used for the SSO logon information. This refers to the regular expression to be applied to the User Id value.  Refer to the CE installation guides for more details on the Single Sign On facility configuration |
|  |  |  |
| **SYS\_FILTER\_DB** |  | This is used to define whether a filter process is to be performed when retrieving data from the database.  This system parameter may have one of the following values:   * TRUE, wherein the system performs a character filter when retrieving data * FALSE, wherein no character filter is performed   The default value is FALSE. |
|  |  |  |
| **SYS\_TEMP\_FUNC** |  | This is used to generate the success or error message when saving transactions. This parameter may a value of F, in which the system generates the success or error message when a transaction is saved.  If the value is not set to F, or if no value is defined, no confirmation or error message is generated. |
|  |  |  |
| **TWO\_COLUMNS\_ WIDGET** |  | This is used to control whether or not widgets in the CE landing page auto-extend their width to occupy available columns on the page. This parameter may have the any of the following values:   * True, in which widgets auto-extend their width; or * False, in which the width of the widgets is fixed.   The default value is False. |
|  |  |  |
| **UNLOCKTIME** |  | This is used to specify the time (in minutes) that the user account remains locked out before it is automatically reactivated. During this time, the user is not allowed log on to the system even with the correct logon credentials. Only once the specified time has elapsed is the user allowed to log on to the system.  This system parameter may have one of the following values:   * 0, in which The auto-reactivate feature is not enabled, and the user must contact the system administrator to reactivate the user account manually.   **NOTE:**  If this system parameter is not defined, the auto-reactivate feature is not enabled as well.   * Any positive integer, in which the system calculates the number of minutes from the last failed logon attempt. If the calculated time is less than this parameter value, the user is not allowed to logon to the system and the account remains deactivated. Otherwise, the account is reactivated and the user is able to logon.   The default value is 0.  **NOTE:**  Only user accounts that are inactivated by exceeding the maximum number of unsuccessful attempts (incorrect password retries) are auto-activated by the system. |
|  |  |  |
| **UPLOADIMG\_ BYREF** |  | This system parameter is used to control whether or not uploading, editing, and deleting images (files) – through the Upload Image(s) function – is based on the image reference number. This may have either value:   * TRUE, in which the Upload Image(s) function is based on the image reference number. This is the default method for CE Versions 3.0 and lower. * FALSE, in which the Upload Image(s) function is not based on the image reference number. This is the default method for CE Versions 3.1 and above. |
|  |  |  |
| **USE\_BANK\_CODE** |  | This is used to control whether or not the multiple-bank setting is applied to the CE system. This may have either of the following values:   * TRUE, in which the multiple-bank setting is enabled; or * FALSE, in which the multiple-bank setting is disabled and the single-bank setting is applied.   The default value is FALSE.  **NOTE:**  For details on the multiple-bank setting, refer to the *CE Security and System Maintenance Functions* documentation. |
|  |  |  |
| **USE\_ROLE** |  | This is used to control whether the Role feature is enabled. This parameter may have a value of TRUE, in which the Role feature is enabled.  If a different value is specified, or if no value is defined, the Role feature is not enabled. |
|  |  |  |
| **WEB\_AP\_ COMPRESS** |  | This indicates whether or not the transaction data are to be compressed when sent from the Web server to the Application server. The available options are FALSE, the default value, and TRUE. |
|  |  |  |
| **WEB\_AP\_ HTTP\_MAC** |  | This indicates whether or not MAC’ing is to be performed when transaction data are transferred between the Web and Application servers. The available options are FALSE, the default value, and TRUE. |
|  |  |  |
| **WIDGET\_ACTION\_POPUP** |  | This is used to control whether the system pops up a new window when a widget hyperlink or button is clicked.  **EXAMPLE:**   1. For the Dashboard widget:      1. For the Criteria Search widget: |

Project-Controlled Parameters

Appendix

Project-Controlled Parameters

Most parameter files are controlled and maintained in the product development center. Only the following parameters can be modified and controlled by the project team:

* CEUtility\ce\_params\parameters\dbprop\sqlserver.prop
* CEUtility\ce\_params\parameters\dbprop\oracle.prop
* CEUtility\ce\_params\parameters\dbprop\informix.prop
* CEUtility\ce\_params\parameters\dbprop\db2.prop
* CEUtility\ce\_params\Script\_XML\product\_item\_prar.xml

Glossary

Glossary

Glossary

**a**

|  |  |
| --- | --- |
| ***Administrator*** | Type of CE Utility user responsible for creating Operator users and other Administrator users; assigning the CE Utility functions of these users; and defining the parameters required for building a module or business product. |
|  |  |
| ***Area Code*** | Region code (e.g., Central America). |
|  |  |
| ***Authorization Level*** | A n order used to determine the maximum allowable amount that may be released by a bank-country group. Each level corresponds to an authorization amount limit for transaction processing. |

**B**

|  |  |
| --- | --- |
| ***Bank-Country Group*** | Combination of the bank and a country. It is used to facilitate sharing of parameters and authorization rules among bank groups that utilize similar rules and parameters for business transaction processing and record management. |

**C**

|  |  |  |
| --- | --- | --- |
| ***CE Utility*** | | Short for Customer Enterprise Utility Workbench. This is the main tool for building parameters in CE. |
|  |  | |
| ***CE New Utility*** | | The web-based parameter setting cool of the CE system. Refer to the CE New Utility set of manuals. |
|  |  | |

|  |  |
| --- | --- |
| ***Customer Enterprise (CE)*** | The Eximbills business-to-business (B2B) solution that provides bank customers with a convenient and secure single window for processing and inquiring on all their trade finance, open account, and payments transactions. |

**D**

|  |  |
| --- | --- |
| ***Data Source*** | Storage or facility for storing data. See Security Data Source, Meta Data Source, and Transaction Data Source. |

**E**

|  |  |
| --- | --- |
| ***End-user*** | The actual user running the CE business functions. |
|  |  |
| ***Eximbills*** | The flagship product of China Systems, which provides support for advanced e-commerce, open account, and trade-related services. |

**F**

|  |  |
| --- | --- |
| ***Field*** | The smallest unit that can hold data. |
|  |  |
| ***Function*** | A unified set of elements, operations, and configurations that produce a target setting, process, and/or output. This typically refers to a CE Utility function or a transaction function. |

**I**

|  |  |
| --- | --- |
| ***Inbox*** | A facility for accessing and processing transactions in three ways: by product; by transaction status; and by product and transaction status. |

**M**

|  |  |
| --- | --- |
| ***Meta Data*** | The parameter data, or simply parameters, that are defined in the CE Utility. See XML also. |
|  |  |
| ***Meta Data Source*** | Data source for CE Utility parameters. |
|  |  |
| ***Module*** | A group of functions that perform interrelated processes and operate under a general principle or objective (e.g., a system module, which is essential to system processes; a business or transaction module, which pertains to a bank service or product). |

**O**

|  |  |
| --- | --- |
| ***Operator*** | Type of CE Utility user responsible for creating the parameters that are required in building a module or business product. |

**P**

|  |  |
| --- | --- |
| ***Parameter*** | Any user-controlled configuration that defines a factor or logic within a set of interrelated operations; performs a specific action in a group of processes; or produces a categorical result or setting. |
|  |  |
| ***Parameter Files*** | See XML*.* |

**S**

|  |  |
| --- | --- |
| ***Security Parameters*** | Global system parameters which settings are applied throughout the CE system. |
|  |  |
| ***Security Data Source*** | Data source for security data. |
|  |  |
| ***Sub Country*** | Member of a country that requires separate and different business parameters for the processing of transactions. |
|  |  |
| ***Super Administrator*** | Type of CE Utility user responsible for creating Administrator users and other Super Administrator users; assigning the CE Utility functions of Administrator users; configuring data source settings; configuring and exporting bank country group settings; and setting system parameters. |
|  |  |
| ***System Parameter*** | If pertaining to global system parameters or security parameters, these are settings that are applied throughout the CE system. Otherwise, they are references or values that are defined to control the behavior of CE during transaction processing on the browser and in the CE Utility. |

**T**

|  |  |
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| ***Transaction Data Source*** | Data source for transaction data. |

**X**

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| --- | --- |
|  |  |
| ***XML*** | Stands for Extensible Markup Language. This is the format used by CE for the communication between the client (browser) and the server. |
|  |  |
| ***XML Generator Function*** | The CE Utility function that is used to generate the corresponding XML files for a specific parameter setting. |