A MITEL
PRODUCT
GUIDE

Unify OpenScape Solution Set V9

Unify OpenScape Solution Set V9, Customer Data Collection with WebCDC V1

Planning Guide

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Mitel

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Contents

1 About the Web Customer Data Collection Tool

This guide describes the Web based Customer Data Collection (WebCDC) Tool and its use. It is the follow-on product to the earlier Excel tabs based CDC.

NOTE: WebCDC V1 has been approved for **use in new installations of V8 OpenScape solutions**. WebCDC V1 is also backward compatible to support OpenScape V6 and OpenScape V7 solutions. This includes support to add deltas of new remote sites upon established deployments.

1.1 What is the Web Customer Data Collection Tool?

WebCDC is a Web based tool that allows Unify, its channel partners and its customers to work together to plan, record and generate configuration files for OpenScape Voice (OSV) and OpenScape Enterprise Express (OSEE) deployments.This includes Unify and third-party components that are included in OpenScape solutions. WebCDC also creates a record of the customer installation for future retrieval if needed (i.e. for site upgrades, etc.).

WebCDC makes configuration of OpenScape Voice solutions significantly easier by producing device configuration files for Mediatrix gateways (Analog 41xx, BRI 44xx, PRI 36xx), RG8700 gateways, OpenScape Voice, OpenScape Branch, OpenScape SBC, OpenScape UC Application, Xpressions, OpenScape Contact Center, OpenScape Concierge and OpenScape DLS. Virtualized configurations of these components is also supported. Additionally, partial support is provided for migrations of the OpenScape 4000 to OpenScape solutions by importing the OpenScape 4000 configuration data into the WebCDC standard tabs.

NOTE: With the introduction of WebCDC, Standard and Thin editions of the excel-based CDC no longer exist. However excel collected data can be imported to WebCDC to satisfy the ’data collection only’ (i.e. no file generations) aspect of Thin edition.

1.2 New Capabilities of WebCDC V1

- Single Sign-On support that eliminates the need for extra account creation by the users.
- Configuration of Standard Architecture and OSEE deployments from a common set of tabs.

- Import of excel collected data into WebCDC projects.
  (Analogous to the previous V7R1 CDC Thin capability).
- Administrator role with full control of WebCDC, e.g. ability to grant access to new users.
- Multiple projects creation and management.
- Different user access levels for each project:
  Read only, Basic (read and write) and Admin.
- Shared access to a project by more than one users.
- Multiple user accounts with access privileges that are controlled by the Administrator.
- Activity logging.
- Access to Advanced tabs is granted to expert users on demand.
- Simplified OSB/OSSBC installation
  - New Endpoint fields: Inventory, Language(s) for local announcements, Software version for upload.
  - Generation of OSB/OSSBC Assistant data in CSV format.
  - Facilitation of collection of customer specific media files. The wave files are stored on the CMP and downloaded to the OSB/OSSBC via the simplified installation process.
  - Storage of all files for gateways within the associated OSB/OSSBC subdirectory.
- New tabs for the configuration of UC, Xpressions, Concierge and Continuous Tracing Parameters.
- PE client configuration. (Note: Currently no DLS template files or ’CreateSIPPhone’ commands are created).
- Configuration of BRI point to Multi-Point in OSB 50i D44
- Support of open numbering plans. (no longer forced to use default site prefix 123 or explicit Site Prefixes; Site Prefix is optional).
- Configuration of OSB/OSSBC redundancy with Redundant OSB Name and Virtual IP Address fields. (Note that subscribers must be associated with the Virtual OSB to support redundancy for the subscribers).
- Private and public authorization codes for subscribers.
- Configuration of SIPQ V2 in OSB50i and OSB500i.
- Configuration of T1 CAS for the US market.
- New Wave Phone models 35G and 55G.

- Restricted Registration of SIP Endpoints for the OSSBC. Introduction of a “Central SBC” endpoint attribute and “Registration Via Central SBC Allowed” subscriber attribute.
- “Class of Restriction” and “Toll and Call Restriction” tabs are reclassified as Basic tabs. (formerly Advanced). Allows modification of subscriber dialing permissions.
- Generation of KNUT Response files for UC application servers based on the selection in the **Start** tab. The KNUT Response files are used to install the UC Front End Server(s), UC Backend Server, Standalone Media Server(s), Standalone DLS server and Multiple Communication Server (CMP).
- Web analytics support using Piwik analytics platform.
- Support for custom DLS profile at the subscriber level.
- Validation feature performs a complete project analysis in a single pass.
- Allowed subscriber delta generation in vApp projects.
- Scripted the VMware ESXi Host Configuration for OSEE.
- Added Keyboard short-cuts support.
- Increase the supported number of Classes of Restriction.
- Support for Concierge V3 (without OSCC).
- Country specific data in Xpressions.
- Integrate Alarms from XPR, DLS and OSCC into CMP Alarm Monitor for OSEE.

2 Working With the WebCDC Tool

The WebCDC Tool consists of a number of tabbed screens / views. Each tab collects different type of data. Most of the data are used to create configuration files for installation or provisioning devices in an OpenScape solution. Some data collection is for reference purposes only.

2.1 Getting Started with WebCDC

WebCDC supports the following web browsers:

- Internet Explorer 8 or newer
- Mozilla Firefox
- Google Chrome

“Cookies” and “Pop-up Windows” requests from the WebCDC server must be authorized on the web browser for WebCDC to function properly.

2.1.1 Logging On

The WebCDC server can be accessed remotely by typing the URL (provided by the Administrator) on the Internet Browser.

NOTE: The security certificate from the WebCDC server must be accepted to access the portal.

The remote access URL is structured as follows:

https://<server-name>

Login to WebCDC:

- Using Unify Central Entitlement SimpleSSO:
  Click on the **SSO Login** button.
- Providing a **User Name** and a **Password**.

  NOTE: User Name and Password fields are case sensitive.

  User passwords can be reset using the **Reset Password** button.

User accounts can be requested by clicking on the **Request Access** link. The request will be queued on the WebCDC server for approval; please contact the administrator to process the request.

NOTE: The SSO Login capability is not limited to Unify only. Channel partners accessing WebCDC through Unify's customer portal can use SSO Login as well. WebCDC can also be configured to use the customer's own SSO system for users to log in.

2.1.2 User Account Types

WebCDC supports 4 different levels of user accounts.

- **Basic**: The lowest level account that has access to **basic** tabs only.
- **Advanced**: Has access to the same tabs as the **basic** user but also to **advanced** tabs.
- **Group Admin:** Same as **Admin** but with a few restrictions and limited to a group of users.
- **Admin**: The highest level account that has access to both **basic** and **advanced** tabs. It also has the ability to access all projects stored on the server, access the user list and change account types and document owners.

2.1.3 Changing User Password

1. Click on your **username** (email) on the upper right corner of the screen.
2. Select **Change Password**.
   A pop up window appears.
3. Enter your current password.
4. Type the new password two times.

NOTE: Users that had their passwords changed by the Admin, after logging in using the new password they will be prompted to enter a new one.

NOTE: Passwords need to follow the Password policy regarding their length, character type etc.

2.1.4 Establishing and Managing a Project

When first logging in to WebCDC you will see a **Welcome** screen where all available projects are listed.
Your projects can also be accessed any time by clicking on the **My Projects** button and any shared projects you have by clicking on **Shared Projects**.

NOTE: A project is a set of data and files that are used for generation of configuration files. Projects can be created by any user, and shared by multiple users.

Establish a new project

1. Click on **My Projects**.
2. Select the **New Project** option.
   On the project window that opens the system prompts you to **Enter Project Name**.
3. After naming the new project click on **Create Project**.
   A new project is created and can be found under the **My Projects** area.

Manage a project

Once a project is selected either by creating a **New Project**, or by clicking on an already existing one under **My Projects**, your work area will be populated with several tabs. By default the **Start** tab will be opened which allows tracking of the following high level details for the project:

- **Customer Details**
- **Document Details**
- **Versions**

You can also perform the following actions by clicking on the menu item with the name of the project:

- **Export Project -** Save the project data locally to a zip file.
- **Export Table Data to Excel** - Exports the data of all tables of the project you are currently working on in a single excel file. The file can be edited and the table data re-imported.

  NOTE: To re-import the table data, you can use the **Import rows from an Excel spreadsheet** (Section 2.1.11) option on **each** tab you wish to update.

- **Import Data (XML / ZIP)** - Imports Basic tabs data.

- **Import OSV Data (MP2)** - Imports an OSV's exported database. (Import file must be less than 16 MB. Compressed .zip is supported for large MP2 imports).
- **Import HiPath 4000 REGEN** - Imports an OpenScape 4000's exported database.
- **Share Project** - Share the project with other WebCDC users.
  You are able to assign different rights to each user by selecting between Read-Only, Basic, or Admin access levels. For further information refer to Section 2.1.4.1, "Project access levels".
  You may also notify the users you share the project with by email.
- **Change Owner** - Allows the owner to assign the project to another user. [available only to administrators]
- **History** - Shows a change log for the project.
- **Clone Project** - Creates a new project with the same data as the currently loaded project.
- **Rename Project** - Renames the currently loaded project.
- **Delete Project** - Removes a project's data from the system.

2.1.4.1 Project access levels

Read-only

Users that have read-only access level are **only** able to view the contents of the project. They are unable to make any changes or perform any other actions such as to export the project or clone it.

Basic

Users that have basic access level are limited to editing the project, exporting its data and generating configuration files.

Admin

Users that have admin access level have full control over the project and its contents.

2.1.5 Importing and Exporting Project Data

WebCDC supports the import of data both from (older) excel CDC XML and WebCDC ZIP files.

Import data

In order to import data to WebCDC you first need to open an existing project or create a new one. After opening a project:

1. Click on the menu item with the name of the currently open project.
2. From the drop-down list select **Import Data (XML/ZIP)**.
3. Click **Browse...** and select the file stored on your computer.
4. Click **Import Data**.

Export project

After opening the project you wish to export:

1. Click on the menu item with the name of the currently open project.
2. From the drop-down list select **Export Project**.
3. Save the file to your computer.

2.1.6 Entry and Modification of Configuration Data

Only one user is allowed to edit a project at a time. To enter "Edit" mode, click the **Edit** button above the tabs. This locks the project, preventing other users from editing the data until you have either saved your changes by clicking **Save** or discarded your changes and reverted back to the original data by clicking **Cancel**.

NOTE: Once **Edit** is clicked, it turns grey (an indication that the project is 'locked') and remains so until **Save** or **Cancel** is clicked. In order to make any additional changes after clicking **Save** or **Cancel,** the user must enter "Edit" mode again**.**

On some tabs, it is possible to add new rows or columns by either clicking the **Add Row** or **Add Column** drop-down button located beneath the grid (at the bottom left of the window), or by right clicking on the grid and selecting the **New Row** or **New Column** option.

There following options exist when adding a row or a column via the **Add Row** or **Add Columns** dropdown:

- **Add Row with Form**
- **Add Column with Form**

After selecting one of the options available, a window opens that prompts the user to enter the field values for the new row/column.

NOTE: WebCDC is also able to bulk Import (and Export) multiple rows/columns of data via excel worksheets. For further information refer to Section 2.1.11, “Export / Import with Excel”.

2.1.7 History (Change Log)

In order to see the list of changes made to a project you need to click on the **History** option under the **drop-down list** with the name of the currently open project.

You are also able to save the change log locally to your computer by clicking on the **Download History Log** button.

The change log will be saved in **.csv** format.

2.1.8 Data validation

WebCDC is also able to check the data for errors and produce an error report before generating the configuration files.
The process can be initiated by clicking on the **Validate Data** button. After clicking the button a new window pops up and the data validation begins. There are 3 different results that may occur:

- Successful validation: “Data validation has been completed successfully” message will appear and the **Close** button.
- Successful validation with errors: “Data validation has been completed successfully” message will appear and the **Open Validation Report File** button. By clicking on the button the report file is opened with information about the errors that occurred.
- Unsuccessful validation: An error message will appear and the **Close** button. In order for WebCDC to successfully validate the data, you need to fix the error first.

NOTE: The produced report file can be accessed any time by clicking on the arrow next to the **Validate Data** button and selecting **Open Validation Data Report**.

2.1.9 Generating and Downloading Configuration Files

Once ready to generate configuration files, click **Generate Config** at the top of the screen (above the tabs) and follow the prompts to complete generation. If there are **warnings** or **errors** during the generation process, the user is notified in order to fix the problems so that the process can continue.

NOTE: If the user has enabled the option **Ignore Warning Messages** prior to the generation, all warning messages are being ignored. The process only stops in case there is an **error** that needs to be fixed first.

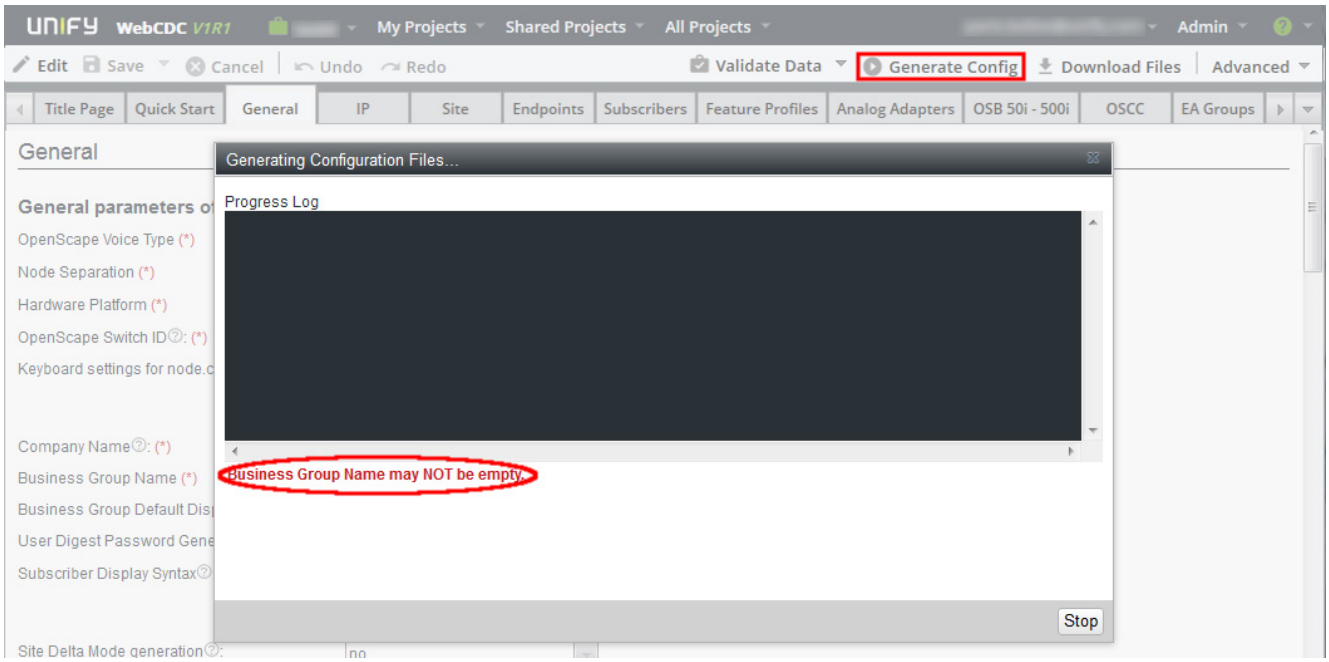


Figure 1 Feedback During Configuration Files Generation

Once an error free generation has taken place, the configuration files may be downloaded by clicking **Download Output Files** located in the pop-up window or by clicking **Download Files** located in the upper right-hand side of the screen. This will begin the download of a ZIP file containing all of the generated files.

The user also has the option to read the validation report file by clicking on **Open Validation Report File**. The validation report file contains all warning messages that may have been ignored during the configuration-files generation process.

2.1.10 Buttons and Functions on the Top Level Screen

The following buttons are located above the tabs:

- **Edit** - Enables input and modifications of data within the tabs.
- **Save** - Saves the Project with any changes made to the project.
- **Cancel** - Discards any changes made to the project.
- **Undo, Redo** - Undo or Redo last change.
- **Validate Data** - Checks for data inaccuracies and inconsistences without doing a full generation of configuration files.
- **Generate Config** - See Section 2.1.9.
- **Download Files** - See Section 2.1.9.
- **Advanced** - Only available for accounts with advanced access rights. Controls whether just **Basic** or both **Basic and Advanced** tabs are shown. There is also an option to **Fill Advanced Tabs** (based upon the contents supplied in the **Basic** tabs).

NOTE: It is important that the **Basic** tabs are always used. The **Advanced** tabs are not approved for general use.

- **My Account (user e-mail)** - Used in order to change password or log out from WebCDC.
- **Admin** - Only available for accounts with administrator rights. Allows the user to see a list with all user accounts, give them basic/advanced/admin access, suspend the account or delete it. Additionally there is the option to send emails to the users and also download the list locally.
- **Help -** Provides the following functions:
  - **CDC Guide** - Links to the online help of WebCDC.
  - **How to Import Generated Configuration Files** - Opens up a window with information on how to import configuration files.
  - **Keyboard Shortcuts -** Opens up a window with all the available shortcuts for WebCDC:
    a) Ctrl + s: Save Project
    b) Ctrl + e: Edit Project
    c) Ctrl + q: Cancel Changes

d) Ctrl + i: Validate Data

e) Ctrl + g: Generate Configuration Files

f) Ctrl + d: Download Current Files

g) Ctrl + ?: Open Shortcut Help

h) Esc + →: Navigate to Next Tab

i) Esc + ←: Navigate to Previous Tab

– **What's New** - Opens up a window with the changes and new features each new release introduced.

NOTE: Help is also available on a per data field basis by hovering the cursor over the parameter names. By doing so a tooltip pops up with a description of the specific field.

2.1.11 Export / Import with Excel

Many tabs have multiple columns and rows. Examples are the **Subscribers** and **Endpoints tab** tabs. These types of tabs have an additional **Import / Export** button located at the bottom of the window.

NOTE: The **Add Row**, **Copy Row**, **Delete Row**, **Add Column**, **Copy Column**, and **Delete Column** buttons at the bottom of the screen are described in Section 2.1.6, "Entry and Modification of Configuration Data".

The **Import / Export** button provides options for moving data to/from excel spreadsheets. This is useful for batch transfer of Subscribers, Endpoint, and other tab data from/to excel worksheets that may have been used in off-line data collection. This is an alternative capability for the CDC Thin version that was offered in earlier releases. The specific selections are the following:

– **Export Structure to Excel spreadsheet**

– **Export Structure + data to Excel spreadsheet**

NOTE: If you wish to export the data of **all** tables of the project at once you can make use of the **Export Table Data to Excel** option described in Section 2.1.4.

– **Append rows from an Excel spreadsheet**

– **Import rows from an Excel spreadsheet [Deletes existing rows]**

The '**Export Structure...**' and '**Export Structure + data...**' values are useful in establishing a usable worksheet from scratch. The first provides an empty worksheet, but with named columns ready for user data population. The second also populates the worksheet with WebCDC's actual tab data. An excel worksheet that was created using one of the Export selections may be updated off-line and then transferred back into WebCDC using the '**Import rows...**' option.

2.1.12 Data Display options

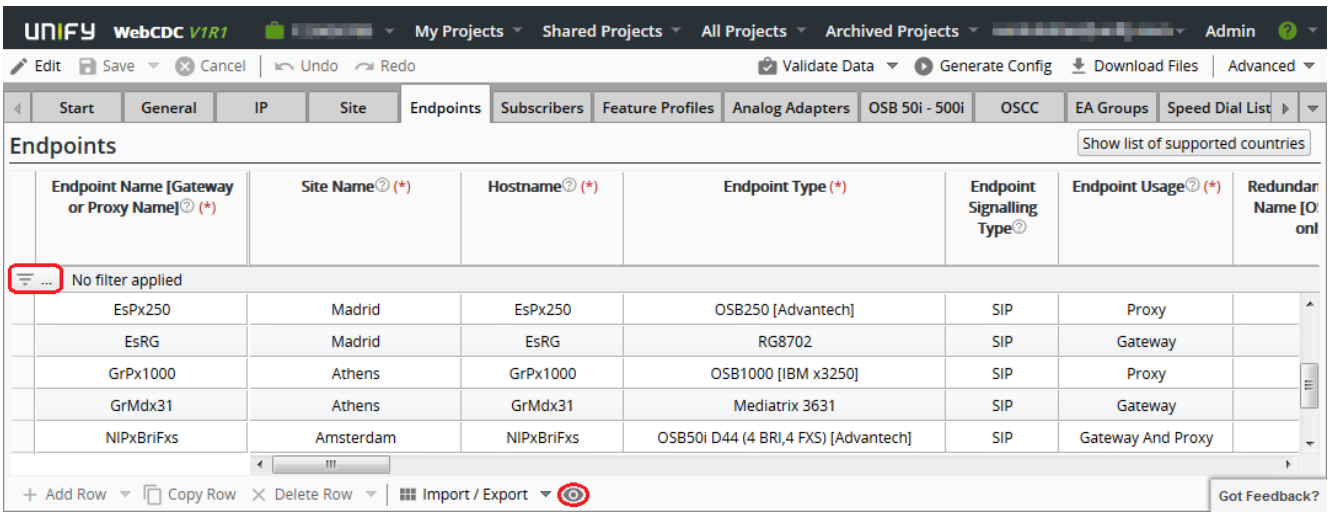
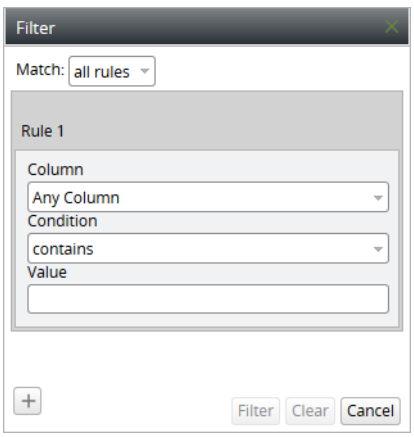


Figure 2 Data display options

Tabs with multiple columns and rows support sorting of the presented data (either in ascending or descending order) by clicking on the column headings.



Filtering is also supported for specific **Columns**, **Conditions**, and **Values** that allows better control of the displayed data. By clicking on ... a window pops up where multiple rules can be set to filter the data as needed.

Only the rows that meet the criteria specified are displayed. Unwanted rows are hidden for as long the filter(s) is (are) in use. If more than one rule is set, it can be specified whether WebCDC should match all of them or any of them.

Columns of tables can also be shown or hidden to create a less cluttered work area. By clicking on a window pops up that let the user select which columns they want to be displayed.

2.2 Field Colors

The following field colors and designations are used:

- Red '(*)': Indicates mandatory fields unless stated otherwise in the respective tooltip.
- Red text: Important remarks.
- **Bold** text: Until the project is saved any new edits are displayed in bold.

2.3 Selecting Input

Many fields in WebCDC's tabs must be entered manually. However, some fields provide drop-down lists for the user to select the appropriate entry. If a field has a set of predefined inputs, a small arrow is shown to the right of the cell when it is selected. Click this arrow to see the options, then select or type in the input.

The drop-down box fields can be copied and pasted into other cells. The content will be retained and the same options will be available. This is useful when defining many rows with similar settings for example. It is possible to define a template row, copy and paste it into additional rows, and then make individual changes within each row.

2.4 Deployment Architecture Models and Component Versions

A first step in using WebCDC is to identify the **Deployment Architecture** mode that is to be configured. WebCDC supports the configuration of different types of OpenScape deployment architectural models. The models that may be configured are available on the selection list of WebCDC **Start** page:

- **Standard Solution**

  This option covers the configuration of a Standard Solution based deployment of OpenScape products. This is also known as the Reference Architecture solution. It is possible to create functional Standard Solution deployments using only few of the Basic tabs.

- **Standard Solution / vApp**.

  Same as Standard Solution but the target system is **virtual appliance** based.

- **OpenScape Enterprise Express**

This option is for OpenScape Enterprise Express deployments. Complete configurations of OpenScape Enterprise Express deployments can be prepared using this option and few of the Basic tabs.

NOTE: From V7 and forward, all deployments of OpenScape Enterprise Express are virtual appliances.

Next a UC Deployment Architecture must be specified. The following options are available:

- **NO UC**
- **Integrated Simplex**
- **Standard Duplex - Small**
- **Standard Duplex - Large**
- **Standard Duplex - Very Large**

NOTE: See the UC Planning Guide for specifics of each deployment option, e.g. number of supported users, servers, etc.

Once the deployment model information is specified, the next step is to define the OpenScape versions of the major components of the deployment. This is also available on the **Start tab** and the fields are the following:

- **OpenScape Voice version**
- **RG8700 version**
- **OpenScape UC App version**
- **OpenScape Branch version**
- **OpenScape SBC version**
- **Xpressions version**
- **Contact Center version**
- **Concierge version**
- **Delta generation**

2.5 Common WebCDC Tasks

Several example workflows are provided that make working with the WebCDC Tool easier. Additional workflow / task examples are also available in Chapter 6, “WebCDC Procedure Examples”.

- Section 2.5.1, “Solution Configuration”.
- Section 2.5.2, “Generation of A Solution’s Configuration Files”
- Section 2.5.3, “Delta on OSV configuration”.
- Section 2.5.4, “Subscriber Delta Configuration”

2.5.1 Solution Configuration

This workflow requires a minimal amount of data input to build OpenScape solution deployments. It makes extensive use of the default configurations provided by WebCDC:

Step by Step

1. Select the **Start** tab.
   - Complete the general project information.
   - Enter the desired **Deployment Architecture** from one of the following:
     - **Standard Solution,**
     - **Standard Solution / vApp,**
     - **OpenScape Enterprise Express.**

     NOTE: **Standard Solution / vApp** is essentially the same as the **Standard Solution** workflow with the exception of the additional **vApp Settings** tab. However, an additional fact to note is that the vApp is deployed as a solution. This makes the **Generate Config** button’s **Select All** option to be the only one available. All other options are greyed out.
   - Specify the **UC Deployment Architecture** per target UC arrangement, e.g. **Standard Duplex - Small**.
   - Choose the correct versions for **OpenScape Voice, RG 8700, OpenScape UC App, OpenScape Branch**, **OpenScape SBC, Xpressions, Contact Center** and **Concierge**.
   - Select the desired **Delta generation** option.

2. Select the **General** tab to set the switch level configuration values.
3. Select the **IP** tab and enter the target deployment's IP settings and host name(s).
4. Select the **Site** tab and enter the various call related, site defaults and other settings for the different sites.
5. Use the **Endpoints** tab to enter the data for endpoints located at the remote sites. These endpoints represent gateways, SIP proxies, Proxy ATAs and SBCs. The required information include numbering plan info (e.g. Area Code, DID range) as well as IP addressing for the signaling, administration, voice and VIP (OSB only).
6. The **Subscribers** tab is used to enter the "non default users".
   – If the **Site** tab field **Make default subscribers for the extension range** is set to **yes**, then the default subscribers will automatically be generated (and are not shown in the **Subscribers** tab).
7. It is possible to create additional subscribers in the **Subscribers** tab with hunt group and pickup group settings. If the user in the **Subscribers** tab overlaps with a default user, then the information from the **Subscribers** tab will be applied.
8. The available pre-defined Feature Profiles that are automatically assigned to subscribers may be viewed on the **Feature Profiles** tab. This tab also allows the user to create new FPs via the empty / free columns at the far right of the screen work area and then setting the associated cells to the appropriate values for the listed feature names. Feature Profiles that are shown on this tab are then available for assignment to subscribers on the **Subscribers** tab.
9. If analog adapters are used in one or more of the sites, then this information is entered in the **Analog Adapters** tab. The information required is primarily the analog adaptor type and its IP addressing information.
10. For sites where an OpenScape Branch 50i or 500i is used with FXO, BRI, or PRI trunks it is necessary to use the **OSB 50i - 500i** tab. This tab associates the ports to specific trunk groups.
11. **OSCC** tab:

NOTE: This tab will not be displayed if the Contact Center version in the Start tab s set to No OSCC Server.

The **OSCC** tab is used to configure OpenScape Contact Center which supports contact center / call center arrangements with designated agent and manager roles. In the Standard Solution this will only create the data for the

OSV (not the OSCC). For OpenScape Enterprise Express the configuration is predefined and so the OSCC is also provisioned. Because Standard Solution is unlimited the OSCC must be provisioned manually.

12. The **EA Groups** tab is used to configure Executive / Assistant arrangements. Predefined arrangements with up to four executives and two assistants exist. The user may also customize this configuration, not to exceed 4 execs and 2 assistants.

13. **Breakout Endpoints** tab:

NOTE: This tab is only displayed when the **General** tab's **Breakout Strategy** field is set to **Customized**.

By default the users at a site are automatically allowed to use their local gateway for PSTN access. This tab is populated from the settings on the **Site** tab and the user is given the chance to make changes (the 'yes' or 'no' question pops up during generation). This provides flexibility for users at sites to instead breakout via another site(s) gateway. Different gateways can be associated with local, national and international calling. (Note that an international breakout is not allowed in another country). Another capability permits specification of a backup function for each site (e.g. when the normal gateway fails). This tab can be useful for purposes of providing a more cost-efficient access and/or to associate a backup path to the PSTN to enhance the robustness/reliability of the PSTN access.

14. The **Speed Dial Lists** tab permits configuration of speed dial data lists for the Business Group.

15. The tab **Class of Restriction** may be used to define various Class of Restrictions to different Traffic Types while the **Toll and Call Restriction** tab supports associating characteristics such as Blocked Call Lists, Switchover Durations, and restriction Day / Date Schedules with the Class of Restrictions.

16. **UC** tab:

NOTE: This tab is only displayed when the **Start** tab's **UC Deployment Architecture** field is **NOT** set to **No UC**.

The **UC** tab supports assignment of Unified Communications (UC Application) data with Subscriber Directory Numbers. The data includes UC Login ID, IM Address, Email/Password, FAX, Mobile and Home Phone information. **Prefill UC Subscriber and Prefill IM Address** buttons are located on this tab and streamline some of the initial data entry by using information derived from the Subscribers tab to auto-populate rows into this tab. The remaining data elements for the rows are then completed manually.

17. **Xpressions** tab:

NOTE: This tab is only displayed when the **Start** tab's **Xpressions version** field is **NOT** set to **No Xpressions Server**.

The **Xpressions** tab is where Subscriber Directory Numbers are assigned voice mailbox data such as PIN, Password and Language. Similar to the OpenScape UC Data tab, there is a **Prefill Xpressions Subscriber Data** button to auto-populate rows into this table based upon the Subscribers tab entries. The remaining data elements for the rows are then completed manually.

NOTE: The next three tabs are concerned with special types of subscribers and subscriber groupings/arrangements. They only need to be used if the specific deployment is to have such subscribers.

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18. **Concierge** tab:

NOTE: This tab is only displayed when the **Start** tab's **Concierge version** field is **NOT** set to **No Concierge Server**.

The **Concierge** tab is used to configure the OpenScape Concierge product which supports company operator positions.

19. The **Continuous Tracing Parameters** tab allows configuration of the settings necessary for the OpenScape Trace Manager and the OpenScape device types (to be traced). Information such as trace file sizes, database file path, transfer types and time intervals are defined here. The **General** tab value for **Enable data collection for Continuous Tracing** must be set to **yes** for this tab to appear.

20. **vApp** tab:

NOTE: This step applies only if the **Deployment Architecture** of **Standard Solution / vApp** has been selected on the **Start** tab. This triggers the presentation of the **vApp** tab which supports generation of the deployment's virtual appliance iso file.

Enter the data for the configuration of the deployment's specific virtual appliance environment. This tab contains sections which address the configuration values for the various OpenScape products that may be

included in the virtualized target deployment. It contains helpful buttons and fields which assign default values and starting IP addresses (from which other IP addresses are derived).

NOTE: vApp support for the **Standard Duplex Large** for the UC with Duplex deployment for OSV is supported (via UC Front End fields). This is in addition to support of the Standard Solution deployments support for **Standard Duplex Small** for the UC Assistant and Duplex deployment for OSV. For Standard Duplex Small the only sections of the vApp tab that need to be filled in are the Common Config and OSUC Back End. The OSVoice parameters are automatically filled in by WebCDC during configuration generation.

---

21. At this point the necessary tabs have been populated. To perform the actual generation of the device configuration files proceed to the next section.

2.5.2 Generation of A Solution's Configuration Files

Step by Step

1. Once all input has been loaded into the various tabs (either manually, or via **Import** of a previously Exported project, or a combination of the two procedures), click the **Generate Config** button located just above the tabs.

   A **Generate Configuration Files** window appears and prompts via a number of check boxes for the specific file types to be generated. In most cases of a new installation, the choice **Select All** will be the appropriate choice.

2. A **Progress Log** window monitors the generation steps as they take place. Any detected errors are displayed with red text messages below the Progress Log window. The specific fault condition is described. The generation may stop automatically or may be stopped manually via the **Stop** button. Fix the error(s) and repeat the previous step until an error-less generation run successfully completes.

3. Now all configuration files have been generated. The next step is to download them to the technician PC. Click the **Download Files** button. The tool gives the option to select which of the two last successful configurations will be downloaded. A File Download dialog window will prompt for either **Open**, **Save**, or **Cancel.** Select **Save** and then provide the specific folder location to accept the files. The files will be download as a .zip file and will have the project name as part of the name. Details for the produced files are available in Section 3, "Configuration Files".

4. The basic configuration generation has been completed. The OpenScape solution can be installed using the generated configuration files. A file named **CDC_README_GeneratedFiles.pdf** bundled with the generated files contains detailed information regarding the generated data and how to use the files, i.e. apply the data into the target devices.

2.5.3 Delta on OSV configuration

This workflow is used to add data to an existing deployment in order to add a new remote site to the configuration. This procedure makes use of the **Import OSV data** function.

NOTE: OpenScape Voice must have been originally installed using WebCDC, otherwise some of the imported data may not match the configuration model expected by WebCDC which may result in errors.

Step by Step

1. Use the **CMP** of the deployment to create a MP2 file for export. (This file will then be used by WebCDC to import the current device settings). This is done on **CMP** by clicking on the following menu items:

   For OpenScape Voice V6, V7, V8:
   Maintenance > **Recovery** > **Export**.

2. Check the **All Configuration data** button (in the Openscape Voice area) and click **Edit...** next to the **Select switches** field to select your switch. Then click **OK** and on the previous window **Next** and **Export.**

   After the **Export** completes the displayed **Latest Job Status** window will indicate the **End** time and a **Status OK.**

3. Click the **Download export result** button to save the OSV **ExportFile** in zip format.

   A standard Windows ‘Save As’ window will allow specification of the desired download target folder / directory for the **ExportFile**. When complete, close the **Download complete** and **Latest Job Status** windows.

4. Navigate to the folder where the zipped **ExportFile** is located and open it. The contents of the zip file are listed.

5. Open the file ‘**Package_HiPath8000 Admin Data_2_HiPath8000 Admin data_001.zip**’.

The contents of this zip file are shown. Select the **file export_all.txt** and export it to a folder where it may next be accessed for the subsequent WebCDC Import steps.

NOTE: At this point in the procedure the focus changes from working with CMP to WebCDC.

---

6. On **WebCDC** select **My Projects** > **New Project** or pick an appropriate already existing project.

   NOTE: If you select an already existing project the project information will be overwritten by the following Import steps.

   ---

7. Click on the button with the name of the project and from the drop-down list select the **Import OSV Data (MP2)** option.

   NOTE: The size of the file must not exceed 16 MB. If the MP2 txt file exceeds this size, then it must be first compressed as a .zip file. WebCDC will automatically extract and use the MP2 file from the zip.

   ---

8. A window opens that prompts the user to **Browse...** to the saved MP2 file. A message in the window warns that **Existing data will the lost!**
9. Once a MP2 file is specified, then click **Import File**.

   Another window will open and prompt to Import **NodeCFG File.**
10. Browse to the specific Node.cfg file then click **Import File**.

    A window will open displaying a **Progress Log.** The importing of the data will take place. This may take several minutes to complete. Before the import is complete, there will be a few additional windows which prompt the user for additional input (next steps).
11. The **Select Numbering Plan for Headquarters** window shall open.

    Select the numbering plan type for the headquarters site from the drop down list, e.g. NP_Common, NP_Munich. Then Click on **OK**.
12. WebCDC then asks you to select the **Xpressions Callback Number** (i.e. Fallback UC Voicemail).

    Select the **Xpressions Callback Number** number and click on **OK**.
13. Next there is a prompt to select the **Auto Attendant Public Number**.

    Enter the number and click **OK**.

14. This is followed by a window that prompts to Select **1st Core Media Server for Headquarters**. Select from the presented list whichever Media Server will be the first Media Server for the new Site. Click on **OK**.
15. If there is more than one media server, a subsequent window appears to allow the user to select the **2nd Core Media Server for Headquarters**. Select **from the presented list** whichever Media Server will be the second Media Server for the new Site. Click **OK**.
16. The system will then ask whether openscapevoiceconfig.txt contains OSMO provisioning. Enter **yes** or **no** according to your configuration.
17. The Progress Log will report when **Importing node.cfg is finished**. It also reports the following information:
    - Rate Area next id
    - PickUp Group next id
    - Numbering Plan next id

    WebCDC will use these values when generating the new site. Please keep a note with these values. The import should then run to its completion until the display of a window with the message **Import into basic tabs is done.** Click **OK**.

NOTE: WebCDC fails to inform about Site Prefix(es) (or LOC Codes) that has (have) already been used in the existing OSCV configuration. The user needs to know which site prefix(es) has (have) already been used in the original OSCV configuration, in order to specify different Site Prefixes for the Delta Site generation. In order to find out which Site Prefixes (or LOC Codes) have already been used in the original OSCV configuration, the user can open the original MP2 OSV configuration file in a simple editor such as Wordpad and locate instances of APNPLOC.

---

18. On the **Start** tab, make sure that the **Delta generation** field is set to **Delta on OSV configuration.**
19. On the **Site** tab, add an available (empty) Site column via the **Add Column** button. Select the **Add Columns With Form** option and input the data.
20. Once the new column is created set the **Delta** field to **yes.**
21. Enter the configuration data for the new site into this column. Use the tooltips for the field explanations, or refer to Section 4.4, “Site Tab”.
22. As required by the specifics of the new site, enter additional configuration data into the **Endpoints** tab. Use the pop up help for the field explanations, or refer to Section 4.5, “Endpoints Tab”.

23. As required by the specifics of the new site, enter additional configuration data into the **OSB 50i - 500i** tab. Use the pop up help for the field explanations, or refer to Section 4.10, “OSB 50i - 500i Tab”.

24. As required by the specifics of the new site, enter additional configuration data into the **Analog Adapters** tab. Use the pop up help for the field explanations, or refer to Section 4.9, “Analog Adapters Tab”.

25. As required by the specifics of the new site, enter additional configuration data into the **Feature Profiles** tab. Use the pop up help for the field explanations, or refer to Section 4.8, “Feature Profiles Tab”.

26. Go to the **Subscribers** tab and add the subscribers for the new site. Use the pop up help for the field explanations, or refer to Section 4.7, “Subscribers Tab”.

27. Select the **Speed Dial Lists** tab and add the speed dial list entries for the new site. Use the pop up help for the field explanations, or refer to Section 4.13, “Speed Dial Lists Tab”.

28. Select the **OSCC** tab and add the call center details (if any) for the new site. Use the pop up help for the field explanations, or refer to Section 4.11, “OSCC Tab”.

29. Select the **EA Groups** tab and add the Executive/ Assistant data (if any) for the new site. Use the pop up help for the field explanations, or refer to Section 4.12, “EA Groups Tab”.

30. Select the **Concierge** tab and add the Concierge details (if any) or the new site. Use the pop up help for the field explanations, or refer to Section 4.18, “Concierge Tab”.

31. Select the **Class of Restriction** tab and add COR and Traffic Type values for the new site. Use the pop up help for the field explanations, or refer to Section 4.14, “Class of Restriction Tab”.

32. Select the **Toll and Call Restriction** tab and add the needed restrictions values for the new site. Use the pop up help for the field explanations, or refer to Section 4.15, “Toll and Call Restriction Tab”.

33. Select the **UC** tab and add data for the new site. Use the pop up help for the field explanations, or refer to Section 4.16, “UC Tab”.

34. Select the **Xpressions** tab and add COR and Traffic Type values for the new site. Use the pop up help for the field explanations, or refer to Section 4.17, “Xpressions Tab”.

35. Once you finish the configuration of the tabs, click the **Generate Config** button. WebCDC will then generate the files for each delta site addition.

    The generated files are the following:

- Media Server Configuration in OpenScape Voice > adding the configuration of the media server in the OpenScape Voice, e.g. creation of the media server, origin destinations, rate area.
- RG 8700 gateway configuration files if it is used as gateway for the new site.
- Mediatrix gateway configuration files if it is used as gateway for the new site.
- Mediatrix ATA configuration files if ATAs are used as Analog Terminal Adapters.
- OpenScape UC App Domain File for the subscribers of the new site.
- New Site dependent XML Template and XML Profile Configuration Files for DLS
- DLS Configuration primary device file for the subscribers of the new site
- OpenScape Branch Configuration File.
- OpenScape SBC Configuration File.
- Xpressions Configuration File for configuring Xpressions mailboxes for the subscribers of the new site. Also includes data for SRTP, Codecs and T.38 support.
- OSCC Configuration File (for future, not currently produced).
- OpenScape Voice MP2 file to configure the following objects in OSV:
  - New PNP
  - New Office codes if any new office code is added
  - New subscribers : Home DN's and BGL's
  - New endpoints
  - Call routing in the PNP of the new site
  - New hunt groups
  - New subscriber features such as Call Pick up, Call Forwarding etc.
  - New rate area
  - New Branch Office
  - Feature Profiles
  - Concierge data (for OSV). Includes data for 6 MLHGs needed for Main calls, Internal calls, Recall, No Answer, Busy, and Park.
  - Concierge configuration file.

36. Import / load the produced configuration files into the deployment's network elements following the procedure outlined in the **CDC_README_GeneratedFiles.pdf** file to import the configuration files onto the OpenScape Voice, Gateways (i.e., RG87XX, Mediatrix 36XX or Mediatrix 44XX), Analog Adaptors (i.e., Mediatrix 41XX), Openscape branches and/or OpenStage phones. Also consult the respective Installation and Upgrade guides.

2.5.4 Subscriber Delta Configuration

This workflow is used to make changes to an existing deployment in order to add new subscribers.

NOTE: OpenScape Voice must have been originally installed using WebCDC Standard Solution.

Step by Step

1. Click on the button with the name of the project and select the **Import Data (XML/ZIP)** option to load the original basic tabs data into WebCDC.
2. After the saved configuration has been imported navigate to the **General** tab, set the **Delta generation** field to **Delta on CDC project.**
3. Next go to the **Subscribers** tab and add the new subscribers to the existing sites and also select the respective field in each new subscriber's **DELTA** column.
4. After adding the new subscriber entries, go back to the **Start** tab and ensure that the **Delta generation** field is set to **Delta on CDC project.**
5. Click the **OK** button to begin the file generation and wait for the procedure to finish. A **Progress Log** window will provide the running status of the process. If any errors are encountered, then make any corrections needed and repeat the previous (Generate Config) step.
6. When a window indicates 'Finished with the generation of all the configuration files', click its **OK** button to acknowledge that the generation of the configuration files is complete.
7. Follow the procedures in the **CDC_README_GeneratedFiles.pdf** file to correctly load the configuration files onto their respective network elements.

3 Configuration Files

WebCDC supports the import of device configuration files and the generation of configuration files for export (for the purpose of subsequent execution on the target device).

3.1 Importing Configuration Files (Import into WebCDC)

3.1.1 Import Data (XML/ZIP)

Configuration data imported from an existing WebCDC/Excel-based CDC project is used to populate WebCDC configuration tabs and filter and sort the imported data as needed.

3.1.2 Import OSV Data (MP2)

Import OSV Data is used to import configuration data of an existing OSV installation in order to create a Site Delta project.

You can access **export_all.txt** files created via **CMP** from the following menu options:

OpenScape Voice V6, V7, V8:
Maintenance > **Recovery** > **Import/Export**.

Press the button, select the file and click **OK**.

NOTE: The size of the import file must not exceed 16 MB. If the MP2 txt file exceeds this size, then it must first be compressed as a .zip file. WebCDC will automatically extract and use the MP2 file.

NOTE: In order to successfully import a MP2 file, a valid node.cfg from the same OSV that the MP2 file was exported from is required.

For further information refer to Section 2.5.3, “Delta on OSV configuration”.

3.1.3 OpenScape 4000 REGEN File

The **Import HiPath 4000 REGEN** option can be accessed by clicking on the button with the name of the currently open project. It is used to import configuration data from an existing OpenScape 4000 installation to populate WebCDC's configuration tabs. The data may then be filtered and sorted as needed.The data from the OpenScape 4000 that is of most importance is the subscriber data. Once this data is imported into the WebCDC, additional configuration information is entered via other WebCDC basic tabs to complete the additional OpenScape configuration data necessary to migrate the **OpenScape 4000** subscribers, MLHGs, and CPUs to the target OpenScape deployment. For example, OpenScape 4000 routing information cannot be adapted/mapped to OpenScape use, so it must be supplied to WebCDC manually as in any typical greenfield case.

A copy of the node.cfg of the OpenScape Voice system may also be used to provide the following to WebCDC:

- OpenScape Voice Signaling Manager IP Addresses
- OpenScape Voice Administration IP Addresses
- DNS System IP Addresses
- NTP Server IP Addresses
- Domain Name

As in a greenfield case, once all the configuration settings have been made in WebCDC (in this case it includes the imported OpenScape 4000 subscriber data), then a new set of OpenScape configuration files are generated to be used on a new OpenScape Voice installation.

Importing of the OpenScape 4000 data is only supported for Standard Solutions (and its virtual appliance case of Standard Solution / vApp). The AMO´s must be in english and keyword based format.

The OpenScape 4000 REGEN file must be in version 5 or greater. If the OpenScape 4000 is lower than version 5, then a REGEN conversion towards V5 or above is needed.

NOTE: Please check Appendix C for the workflow how to create a OpenScape 4000 REGEN file.

3.1.4 OpenSmart Designer File

OpenSmart Designer produces a XML file that can be used in order to configure WebCDC. Additional configuration information may be entered using WebCDC.

These are the steps that need to be followed in order to successfully import OpenSmart Designer configuration data:

1. Use OpenSmart Designer to produce the XML file.
2. Log in to WebCDC and create a new project.
3. Click on the **Import Data (XML / ZIP)** button under the drop-down list of the currently open project.
4. Select the XML file that OpenSmart Designer produced and click on **Import Data**.
5. Once the data is imported into WebCDC, additional configuration information may be entered using WebCDC's tabs.

3.2 Generating the Configuration Files (Export from WebCDC)

WebCDC allows the generation of configuration files for node(s), gateways, DLS, OpenScape Branch, OpenScape Voice UC Application, OpenScape Xpressions and OpenScape Voice through a series of options provided to the user.

Once the files are generated they may be downloaded from WebCDC and used to configure the actual OpenScape deployments. The following sections provide details on the import of the configuration files and what they actually configure.

NOTE: It is important to note that the specific file loading steps are always documented by WebCDC in its **CDC_README_GeneratedFiles.pdf** file located with the produced configuration files. This README file is always kept up to date as new versions of the WebCDC tool are released. It should be treated as the **best up-to-date source for the file loading procedures**.

WebCDC users have the ability to create **all** of the deployment's required configuration files as a single action. There is also the option to be selective about which files are/are not generated (Standard Solution only). This is controlled via the "Generate Configuration Files" window that opens following the selection of the **Generate Config** button. Just deselect the checkbox(es) for the files that are not desired and then click **Start** to begin the generation of the files.

The following options can be selected in the "Generate Configuration Files " window:

- Select All
- Node.cfg
- OpenScape Voice
- Gateways
- DLS
- OpenScape Branch/SBC
- UC
- Xpressions
- OSCC
- Concierge
- Trace Manager
- vApp ISO image

3.2.1 OpenScape Voice Node Configuration File

The **Node.cfg** file is used to configure and install the OpenScape Voice nodes. This file contains IP addresses based on the administration, signaling, and billing network entries in WebCDC.

NOTE: WebCDC internally performs the validation of IP addresses the same as the NCPE tool.

How to Create	Click the **Generate Config** button. Ensure that the **Node.cfg** option is checked.
How to Import in the OSV system	This file is required during OpenScape Voice installation.
What It Configures	• Subnets and IP addresses • OpenScape Voice servers • Duplex or single server systems • Node separation

Table 1 OpenScape Voice Node Configuration File

3.2.2 OpenScape Voice Provisioning Configuration File

The **openscapevoiceconfig.txt** file contains full OpenScape Voice provisioning details.

How to Create	Click the **Generate Config** button. Ensure that the **OpenScape Voice** option is checked.
How to Import in the OSV system	*OpenScape Voice V6, V7, V8:* To import this file using the Common Management Platform (CMP), go to **Maintenance > Recovery > Import/Export > Import**. Select the import file and then click **Next**. Choose "OpenScape Voice" as type of file to be imported and the target node (OpenScape Voice switch). Refer also to the following guide: • *OpenScape Voice Configuration and Administration.*
What It Configures	• Feature Profiles • Business Groups • Endpoints • Endpoint Profiles • Numbering Plans (prefix access codes, destination codes, service codes, extension codes, location codes) • Office Codes • Routing Areas = Rate Areas • Classes of Service • Destinations • Routes • Aliases • Hunt Groups • Pickup Groups • Subscriber FWD Settings • Speed Dial Lists • Business Group Lines • Home DNs • Code Indices • Code Processing • Traffic Types • Class Of Restriction • Keysets • OSMO Clients on OSV • Realm DA password for OSMO subscribers • CSTA and ONS • CAC • Concierge on OSV

Table 2 OpenScape Voice Configuration File hipath8000config.txt

3.2.3 OpenScape Voice DNS Configuration File

The **fqdn.cfg** file is used to configure the DNS (BIND) server on the OpenScape Voice (OSEE only). Note that this file is currently only generated in the case of the OpenScape Enterprise Express deployment architecture.

How to Create	Click the **Generate Config** button. Ensure that the **OpenScape Voice** option is checked.
How to Import in the OSV system	This file is required to be on a USB stick along with the node.cfg primary during the installation.
What It Configures	This file contains the hostnames relevant to the configured system.

Table 3 OpenScape Voice DNS File fqdn.cfg

3.2.4 OpenScape Voice Set RTP Parameters File

The **set_rtp_parameters.sh** file contains RTP (Resilient Telco Platform) parameter settings for OpenScape Voice. These parameters can have a major impact on the OpenScape Voice system. Modification of these parameters must always be performed with precaution and only when the meaning is clear.

How to Create	Click the **Generate Config** button. Ensure that the **OpenScape Voice** option is checked.
How to Import in the OSV system	Consult the Readme.txt file that is bundled the generated files folder for details.
What It Configures	This file contains all the system-wide RTP parameter settings for the OpenScape Voice.

Table 4 OpenScape Voice RTP Parameter File

3.2.5 RG 8700 Configuration Files

The **Write RG 8700 config** button generates the following three files, which contain the complete RG 8700 configuration:

- <Gateway Type>_<Hostname>_config1.txt
- <Gateway Type>_<Hostname>_config2.txt
- <Gateway Type>_<Hostname>_config3.txt

For the Standard Solution the <Hostname> portion of the filename is taken from the **Hostname** field of the **Endpoints tab** on which the RG 8700 is defined. t

How to Create	Click the **Generate Config** button. Ensure that the **Gateways** option is checked.
How to Import in the Gateway	To import 1. FTP the generated files to the RG8700. For example, place the files in the /tmp directory. 2. Open a telnet session and run the following command: `execute /ad0/tmp/<gwname>_config1.txt` 3. Reboot the RG 8700 device. 4. Repeat steps 1 to 3 for the remaining three files. Refer also to the following guide: *RG 8700 System Installation Guide*.
What It Configures	• RG 87xx basic configuration • Number Modification Rules (incoming and outgoing) • Differentiation between external (ISDN-side) and internal (SIP-side) numbers • Selection of multiple codecs. • Selection of transport protocol.

RG 8700 Configuration Files

IMPORTANT: <Gateway Name> should match the “target name” that is entered when initially configuring the RG 8700 via the craft port. In these initial steps the RG 8700 management IP address is also set. For more information refer to the *RG 8700 System Installation Guide*. For more information refer to Chapter 3, “Configuration Files” and to the *RG 8700 System Installation Guide*.

3.2.6 Mediatrix Configuration Files

The **Write Mediatrix config** button generates the <Gateway Type>_<Gateway Name>.txt file, which contains the complete Mediatrix configuration for the following Gateway types:

- Mediatrix 41xx.
- Mediatrix 44xx.
- Mediatrix 36xx.
- Mediatrix C7xx

The <Gateway Name> portion of the filename is taken from the **Hostname** field of the **Endpoints tab** on which the Mediatrix is defined.

How to Create	Click the **Generate Config** button. Ensure that the **Gateways** option is checked.
How to Import into the Gateway	To import: 1. Open the Mediatrix text file and copy the entire contents of the file. 2. From a Telnet session, or from a serial console, paste the file contents into the command line. Import of Mediatrix file is also possible via Web interface. This is the preferred way. Refer also to the Mediatrix documentation. ***NOTE:*** In case Mediatrix DGW 2 software is used, import is also possible via the web based management of the Mediatrix gateway.
What It Configures	• Mediatrix basic configuration • Basic dialing rules

Mediatrix Configuration Files <mediatrix_name>

3.2.7 OpenScape UC App Domain File

The **Write OpenScape UC App. Domain File (csv)** button generates the **domain_configuration.csv** file, which contains OpenScape UC Application users and their attributes as well as information about resources. (A detailed explanation of the UC App Domain file and its contents is available in Appendix C of the *OpenScape Common Management Platform Administrator* document).

NOTE: Before generating the OpenScape UC Application domain file, the user must first determine system ID for OpenScape UC App. To do this, follow the directions provided below under “How to Create”.

How to Create	Before beginning, the user must ensure that the **OpenScape UC basic configuration** section is populated on the **General** tab, along with any other appropriate information. 1. On the Common Management Platform, go to **Maintenance > Recovery > Import&Export > Export** (direct link on the right) to export the domain_configuration.csv file and obtain the system ID for the OpenScape UC App from this file. 2. Also gather the following information: – The host name of the Common Management Platform (CMP). – The domain path where the OpenScape UC Application users will be administered. – The CSTA IP address and port number of OpenScape Voice. 3. In the WebCDC tool fill in the needed values in the respective tabs. Click the **Generate Config** button. Ensure that the **UC** option is checked.
How to Import into UC Application	1. Ensure that OpenScape UC App and its licenses are installed. 2. Consult the Readme.txt file in the generated files folder for the latest information on how to install the file.
What It Configures	OpenScape UC Application users and their attributes.

Table 5 OpenScape UC App Domain File

3.2.8 DLS Files

3.2.8.1 Key Template Configuration File for DLS

The **<key template name>.xml** file contains one key layout for use in DLS.

How to Create	Click the **Generate Config** button. Ensure that the **DLS** option is checked.
How to Import in Deployment Service	To import: • On the deployment server, go to **Deployment Service > Profile Management > Template Overview** and click the **Import** button. Refer also to the following guide: • *Deployment Service Administrator Documentation.*
What It Configures	• Key layouts. • Key definitions. • Key destinations.

Table 6 Key Template Configuration File for DLS

3.2.8.2 DLS Template Files

The <template name>.xml file contains all key layout, server layout, etc. for use in DLS. All DLS xml template files generated by WebCDC are written into a separate folder called **CDC_DLS_Templates**. WebCDC automatically zips together all the generated template files (XML files).

How to Import in Deployment Service:

1. On the Deployment Server, go to **Deployment Service > Profile Management > Template Overview** and click the **Import** button.

3.2.8.3 DLS Profile Files

The **<profile name>.xml** files contains all different profiles for the different phone types for use in DLS. All DLS xml profile files generated by WebCDC are written into a separate folder called **CDC_DLS_Profiles**. WebCDC automatically zips together all the generated profile files (XML files).

How to Import in Deployment Service:

On the deployment server, go to **Deployment Service > Profile Management > Profile Overview** and click the **Import** button.

3.2.8.4 DLS Configuration File

The Generate Config button followed by enabling the **Generation choice** checkbox for **Generate DLS templates and device profiles** generates the **import_dls.csv** file, which contains the primary device entries for the DLS. Keysets are also set by this script. The following parameters are also set for each device:

- Device type. (This parameter is mandatory for an entry. If the **Device Type** column in the **Subscribers** tab is empty, then no entry is created).
- Device Profile
- MAC address
- Display ID
- Terminal Name
- User ID (digest authentication)
- Password (digest authentication)
- Realm (digest authentication)
- SIP registrar address

The parameter values used in this .csv file are taken from the following fields:

Subscribers tab	
• Device MAC Address	• Device Type
• Country Code	• Display Name
• Area Code	• User ID (digest authentication)
• Subscriber Code	• Password (digest authentication)
• Extension	• Realm (digest authentication)
IP tab	
• OpenScape Voice signaling managers IP (SIPSM1)	

Table 7 Parameters Used in import_dls.csv File

How to Create	Click the **Generate Config** button. Ensure that the **DLS** option is checked.
How to Import in DLS	To import: 1. On the DLS, go to **IP Device Management > IP Device Configuration** and click the **Search** button to show the current entries. 2. Go to **Action > Import File** to import the import_dls.csv file. Refer also to the DLS documentation.
What It Configures	DLS device entries that include device-dependent parameters, such as the MAC address of the device and/or the display ID.

Table 8 DLS Configuration Files import_dls.csv

3.2.9 OpenScape Branch Configuration File

OpenScape Branch configuration is saved in .xml files that contain all configurable parameters also available via the Web interface.

There is one configuration file for each OpenScape Branch device. The file naming convention is:

```
OSB_<Endpoint Name>_CDC.xml
```

The <Endpoint Name> portion of the filename is taken from the **Hostname** field of the **Endpoints** tab on which the OSB is defined.

How to Create	Click the **Generate Config** button. Ensure that the **OpenScape Branch/SBC** option is checked.
How to Import in OSB	Import via the OpenScape Branch Assistant: 1. Login on the Common Management Platform (CMP) and go to **Configuration > OpenScape Branch**. 2. Select a Branch Office from the drop down of the available Branch Offices. 3. From the **Configuration** section select the **System** window and **Import/Export**. 4. Via the **Import...** button a new configuration file can be uploaded to the respective OpenScape Branch Device. 5. After loading don't forget to click on the **Apply Changes** button. Also refer to the OpenScape Branch online help system, section "How to Load and Apply New Configuration Files".
What It Configures	OpenScape Branch 50/50i/250/500i/1000/6000 devices.

3.2.10 OpenScape SBC Configuration File

OpenScape SBC configuration is saved in .xml files that contain all configurable parameters also available via the Web interface.

There is one configuration file for each OpenScape SBC device. The file naming convention is:

```
SBC_<Endpoint Name>_CDC.xml
```

For the Standard Solution the <Endpoint Name> portion of the filename is taken from the **Hostname** field of the **Endpoints** tab on which the SBC is defined.

How to Create	Click the **Generate Config** button. Ensure that the **OpenScape Branch/SBC** option is checked.
How to Import in SBC	Import via the OpenScape Branch or OpenScape SBC Assistant (starting in V8): 1. Login on the Common Management Platform (CMP) and go to **Configuration > OpenScape Branch or OpenScape SBC (in V8).** 2. Select an SBC from the drop down of the available OpenScape SBCs. 3. From the **Configuration** section select the **System** window and **Import/Export**. 4. Via the **Import...** button a new configuration file can be uploaded to the respective OpenScape Branch Device. 5. After loading don't forget to click on the **Apply Changes** button. Also refer to the OpenScape Branch online help system, section "How to Load and Apply New Configuration Files".
What It Configures	OpenScape SBC devices.

3.2.11 Xpressions Configuration File

Xpressions users (voice mailboxes) can be easily generated for existing OSV subscribers. The Xpressions configuration file is called **XpressionsConfig.txt** and the batch file **XprImport.bat**

How to Create	Click the **Generate Config** button. Ensure that the **Xpressions** option is checked.
How to Import into Xpressions	• Copy the files **XpressionsConfig.txt** and **XprImport.bat** to the Xpressions system under the **C:\OpenScape\xpr\SDKtools** directory. • Execute the batch file **as administrator**.
What It Configures	Xpressions subscriber voice mailboxes.

For each subscriber where a non-empty character is entered in the first column (delta column), an Xpresssions voicemail will be created.

NOTE: WebCDC will only generate Xpressions voicemail boxes.

3.2.12 OpenScape Contact Center Configuration File

This file is currently generated only for the **Deployment Architecture** of **OpenScape Enterprise Express / vApp**. It configures the Contact Center component of the OpenScape Enterprise Express solution. The OSCC configuration filename is:

```
CDC_OSCC_Config.txt
```

How to Create	Go to **OSCC** tab. Input the necessary values for the one or two call centers and their associated agents and supervisors. Click the **Generate Config** button. Ensure that the **OSCC** option is checked.
How to Import into OSCC	• Put the generated file on the OSCC system. • Execute the OSCCWebCDCImport.exe tool and specify the WebCDC generated WebCDC_OSCC_Config.txt file. See the OpenScape Enterprise Express Installation Guide for additional details of the use of the OSCCWebCDCImport tool.
What It Configures	The OpenScape Contact Center for one or two call center groups and their respective attendants and supervisors.

3.2.13 OpenScape Virtual Appliance File

The **vApp.iso** file contains the customer configuration data that will be used to install a Standard Solution or OpenScape Enterprise Express deployment as a Virtual Appliance system. The Deployment Architecture setting must be one of the two ' **vApp**' cases and the vApp tab must be populated before this file can be generated. WebCDC then uses the input data to create an output ISO file with the customers specific install/config data.

The vApp.iso file contains a separate folder for each server where the customer configuration data is stored. Each server folder also contains a "Patches" directory where patch updates can be placed. A 3rd party tool can be used to open the iso file if sw patches need to be added.

The product install guides (e.g. OSV IUG, OSEE Staging Guide, UC IUG) describe the steps to install the vApp which is downloaded from SWS. After deploying the vApp, the WebCDC ISO is connected to the resulting Virtual Machine as a virtual CD/DVD drive and the VM boots up.

If the deployment architecture is the Standard Solution vApp:

On the first boot of the VM (which includes the OS and OSV Standard Duplex SW installed), a first boot script is run which reconfigures the VM from the lab config (e.g. IPs) to the customer config (e.g. IPs). The next step is to install the product licenses and the mass provisioning is performed which utilizes the mass provisioning data on the ISO created by WebCDC.

If the deployment architecture is OpenScape Enterprise Express / vApp:

- The OSV VM is configured to install the OSV Integrated Simplex Image. The next step is to install the product licenses and the mass provisioning is performed which utilizes the mass provisioning data on the ISO created by WebCDC.
- The Windows VM already includes the Windows OS, Xpressions, OSCC, OSV TM so it is only necessary to include the Licenses and mass provision.

How to Create	Click the **Generate Config** button. The ISO image should contain all the configuration data needed to deploy the solution. When the **vApp ISO image** option is checked all the other configuration file are selected by default.
How to Import in the OSV system	The ISO image is transferred to the Datastore in the virtual environment. When the vApp is deployed the configuration data is read from the ISO and the VM is automatically reconfigured with the applicable data. See the product install guides (e.g. OSV IUG, OSEE Staging Guide, UC IUG) for specific details for how to install the vApp which is downloaded from SWS.
What It Configures	The target Virtual Appliance environment's configuration data.

Table 9 OpenScape Virtual Appliance File (vApp.iso)

3.2.14 KNUT Response Files

KNUT Response files are used for the installation of the UC application servers, Standalone Media Servers, Standalone DLS and off-board CMP. The number of KNUT Response files depends on the number of IP addresses supplied for each device type in the IP tab.

The generated KNUT response files are used to set the values of the following fundamental installation parameters:

- **SI_SYMPHONIA_ADMIN_PASSWORD** - OpenScape UC Application administrator password
- **SI_COMMUNITY_NAME** - Community Name
- **SI_PRIMARY_NODE_HOST** - OpenScape UC Application server
- **SI_LOCAL_HOST** - OpenScape UC Application server
- **SI_DB_HOST** - OpenScape UC Application server
- **SI_DB_LOGON_PASSWORD** - Database admin password
- **SI_LOCAL_NAME** - Display_name of the application computer to be displayed in the CMP.

Refer to the UC IUG for more details on the KNUT response files and their use in the UC installation scripting.

How to Create	Click the **Generate Config** button.
How to Import in the OSV system	For off-board servers the installation process expects this file is to be located under /root with file name of knut.responsefile.txt. For simplex you tell the installer where the file is located, however, in practice it is usually placed under the same path and with the same name.
What It Configures	Used in the installation of the UC application servers, Standalone Media Servers, Standalone DLS and off-board CMP. Mostly involved in linking Symphonia framework HOST variables to appropriate IP addresses. The specific data items are listed earlier in this section.

Table 10 KNUT Response Files

3.2.15 Express OSV Setup File

This file is an OSV customized setup script (**express_osv_setup.sh**) used to speed up and ease system staging of OpenScape Enterprise Express deployments.

How to Create	Click the **Generate Config** button.

How to Import in the OSV system	• Copy the file onto the filesystem (e.g. at /tmp) of one of the OpenScape Voice nodes (e.g. using WinSCP)
	• Make the file executable:
	`chmod a+rwx /tmp/express_osv_setup.sh`
	• Login as root user and execute the script:
	`/tmp/express_osv_setup.sh`

What It Configures	After transferring the WebCDC output files for OSV to the OSV node, the script is executed and a CLI menu assists with the provisioning.

Table 11 Express OSV Setup Files

3.2.16 OpenScape Concierge File

This file contains the configuration data that will be used to set up OpenScape Concierge.

How to Create	Click the **Generate Config** button. Ensure that the **Concierge** option is checked.
How to Import in the Concierge system	<to be supplied>
What It Configures	OSCCE Concierge

Table 12 Express OSV Setup Files

4 Individual Tab Details

The primary purpose of the basic tabs when used for configuring a solution (Standard or Enterprise Express) is to facilitate population of internal WebCDC advanced tabs with minimal effort. After filling out the tabs and clicking the **Generate Config** button, the internal tabs are filled out automatically. The information that is entered once in the tabs is reused many times in different internal tabs in order to populate a more complete configuration based upon WebCDC internal definitions of the supported deployment types, e.g. Standard Solution, OSEE. Advanced tabs are no longer supported for general use. Only the basic tabs are described.

NOTE: Red (*) indications are provided in the tabs for input fields that are mandatory.

4.1 Start Tab

4.1.1 Customer Details

- **Customer -** Record the customer name.
- **Project -** Record the project name.
- **Global ONE Reference ID -** This is the unique ID generated by the G1 tool.

4.1.2 Document Details

- **Last Change Made By -** Shows the username of the user that made the last change
- **Date of Last Change** -
- **Telephone/E-Mail -** Contact person's details.
- **Document Version** -

4.1.3 Versions

- **Deployment Architecture** - Choose the deployment architecture for the project.
- **UC Deployment Architecture** - Choose the desired UC deployment type.
- **OpenScape Voice version** -
- **RG8700 version** -
- **OpenScape UC App version** -
- **OpenScape Branch version** - This drop down is used for all types of OpenScape Branches: OSB in proxy mode, ProxySBC mode and BranchSBC mode.
- **OpenScape SBC version** - This drop down is used only for OpenScape SBC.
- **Xpressions version** - Select the OpenScape Xpressions server version if the solution contains an Xpressions server
- **Contact Center version** - Select the OpenScape Contact Center server version if the solution contains an OSCC server

- **Concierge version** - Select the Concierge server version if the solution contains a Concierge server
- **Delta generation** - Delta generation is used to add data to an existing deployment and can be utilized in two modes.
  – Delta on CDC project
  Use this option to add new data (Subscribers, Sites, Endpoints etc.) to an existing CDC project. Upon selecting this option, two additional buttons become visible under the Start tab ("Set Delta Point" and "Clear Delta Point").
    - "Set Delta Point" defines the point up to where the WebCDC project has been standardized for the customer, generated and deployed. By pressing the button, any changes to the existing entries will not be possible.
    - "Clear Delta Point" resets the Set Delta Point action.

    IMPORTANT: Only the owner of a project or a user who has been shared the project with 'Admin' access level is able to perfom the actions above.

    For detailed information about the "Delta on CDC project" functionality, please refer to Section 6.8, “How to use the Delta functionality on CDC project Delta generation mode”.

  – Delta on OSV configuration
  Use this option to add sites/endpoints/subscribers to an OSV installation. An OSV configuration (MP2, node.cfg) has to be imported first.
- **OSD Support** - Enable/Disable support for OSD generated imported configurations. If this feature is enabled, the following additional IPs are displayed and may also be manually configured in the 'IP' tab:
  – OpenScape Voice remote admin IP (RSA)
  – OpenScape Voice signaling IP
  – OpenScape Voice billing IP
  – OpenScape Voice cluster interconnect IP (Xchannel)
  – OpenScape Voice CSTA IP
  – OpenScape Voice LSM IP
  – OpenScape Voice MGCP/NCS IP

  NOTE: This field is not editable and its default value is "Disabled". It gets "Enabled" after importing an OSD generated (xml) configuration.

4.2 General Tab

All basic/essential characteristics of the solution are defined in this tab.

4.2.1 General parameters of the OpenScape Voice system

- **OpenScape Voice Type** - Possible options include:
  – Standard_Duplex
  – Integrated_Simplex
- **Node Separation** -
- **Hardware Platform** -
- **OpenScape Switch ID** - This is the Openscape Switch ID defined in CMP and corresponds to the id of the monitored OSV.
  – For Onboard CMP (Integrated Simplex OSV) this is always "2"
  – For OffBoard CMP (Standard Duplex OSV) this ID increases when multiple OSVs are monitored.

  Steps to find Switch ID in CMP:
  a) Go to Configuration Tab
  b) Click Openscape Voice (Switches Tab)
  c) Double click OSV System to be monitored entry
  d) Find Switch ID next to Name field found at the new window

  IMPORTANT: This field is mandatory in case UC is provisioned!
- **Keyboard settings for node.cfg** - Keyboard setting that will be used in the OSV server. The selected language will be used in the node.cfg file. Default value: english-us.
- **Company Name (*)** - The following have to be taken into account:
  – The Company Name cannot be longer than 10 characters.
  – The allowed characters are: [a-z] [A-Z] [0-9] [_]
- **Business Group Name (*)** - The business group of the solution in Openscape Voice.
  The following rules apply:
  – Value cannot be longer than 30 characters
  – Allowed characters are :[a-z][A-Z][0-9][_][-] and space
- **Business Group Default Display Number (*)** - The Default Display Number for the Business Group. Only numeric values with a length of 1-15 digits are accepted.
- **User Digest Password Generation** - Specifies how the password used for Digest Authentication will be generated.
  The password should follow the OSV password policy. Possible values are:
  – **disable**: no digest authentication.
  – **user input**: The specified digest password will be used for all subscribers. The password length must be 6 to 20 characters. The user may override the default value in the subscribers tab.
  – **randomize**: The digest password for all users will be automatically filled with random values.

  Default value is randomize.
- **Subscriber Display Syntax** - The Subscriber Display Name format in the OSV. Possible options include:
  – FirstName LastName (with a space in between)
  – LastName, FirstName (with a comma and a space)
- **SIP transport type (*)** - This is the default signaling transport type setting for the solution. Every device or server will use this transport type. Default value is TCP.
- **Enable FQDN support on OSV** - Support FQDN and DNS SRV for the OSV nodes.If the 'Enable FQDN support' is set to yes, then ensure that FQDNs or DNS SRV are identified in IP Tab.
- **Voice Codec 1-6** - Select the codecs to be used in the gateway and DLS scripts.

- **Media Protocol** - The non-SBC components can have as Media Protocol one of the following values:
  – SRTP + RTP
  – RTP
- **SBC: Media Protocol** - The non-SBC components can have as Media Protocol:
  – Pass-thru: the SBC will pass any SDP unchanged, so that the RTP parameters are exchanged endpoint to endpoint.
  – SRTP + RTP
  – RTP
- **SRTP method** - Select here the SRTP encryption method:
  – mikey
  – sdes

  NOTE: in case the SBC media protocol is set to “Pass-Thru”, then the SRTP method does not matter for the central SBC.
- **T38 supported** - Enables/disables the T38 automatically in the gateway scripts.
- **Packetization time (ms)** - Use this filled to select the packet size in milliseconds to be used in the gateway scripts. The default value is 20 ms.
- **DSCP QOS for SIP/MGCP** - QOS via DSCP (Differentiated Services Code Point).
  – Default for SIP: AF31
  – Default for RTP: EF

  The higher the value, the higher the priority. For example AF41 (34 - 136) means:
  – Assured Forwarding 41
  – 34 is the DSCP value decimal
  – 136 is the DiffServ/TOS value decimal

  Acronyms:
  – EF: Expedited Forwarding
  – BE: Best Effort
  – AF: Assured Forwarding
  – CS: Class Selector
- **DSCP QOS for RTP** - QOS via DSCP (Differentiated Services Code Point).
  – Default for SIP: AF31
  – Default for RTP: EF

  The higher the value, the higher the priority. For example AF41 (34 - 136) means:
  – Assured Forwarding 41
  – 34 is the DSCP value decimal
  – 136 is the DiffServ/TOS value decimal

  Acronyms:
  – EF: Expedited Forwarding
  – BE: Best Effort
  – AF: Assured Forwarding
  – CS: Class Selector
- **SBC: Enable Remote Endpoints** - When the **“**Enable Remote Endpoint” is enabled, then the central SBC is able to handle remote endpoints in remote sites. The “Enable Remote Endpoints” is by WebCDC by default set to NO out of security reasons. When you need it, you thus need to enable this your own.
- **SBC: Enable Remote Subscribers** - When the “SBC: Enable Remote Subscribers**”** is enabled, then remote subscribers can REGISTER towards a central SBC via the WAN (e.g. via the internet) towards an OSV.

  NOTE: The digest authentication is ENABLED in this case, since you have a major security hole otherwise by allowing SIP communication via the internet without verifying the credentials of the user via the digest authentication.By default, the “SBC: Enable Remote Subscribers” is disabled for security reasons.

In case you want remote subscribers (also known as teleworkers), then it is adviced to configure the phones and plug them to the LAN of the OSV, and check if they become active, and if calls are possible.
Once they are shipped to a homeworker, the SIP REGISTER and SIP PROXY IP address in the phone needs to be changed to the WAN IP address of the Central SBC.

Configuring directly the WAN SBC address as partner in the IP phone gives the problem that in case you face any issue, you cannot directly know if it is a phone, and SBC or an OSV issue.For that reason, you better connect the phones at least once successfully to the OSV via the OSV LAN.

To administer remote phones (teleworkers), you do need a meet-me functionality of a DLS, where this (second) DLS is typical put in a DMZ zone.

- **Staging - workbench selection** - Only used for staging activities. Workbench selection.
- **Enable EA Cockpit for EA groups** - Set this parameter to yes, if you want the EA groups to have EA Cockpit support (phone application). In this case the EA Cockpit application server IP address must be entered in the IP tab.
- **Enable PC port on phone** - This parameter enables the PC port on the Openstage phone in the DLS template. The value should be “yes” if a PC is connected behind an OpenStage phone.
- **Breakout strategy** - This setting defines if the call routing is done via a Custom breakout matrix or not. The breakout matrix should be used only for customers that have special breakout strategies. The preferred value for this setting is Standard.
- **Special Customer Configuration** - Select “Pbx-Routing” special configuration option when migrating subscribers from existing PBXes to OSV and which involves routing using existing PBX Network for some sites. Please note, that in PBX migration scenario which involves routing over WAN only, there is no need to select: “Pbx-Routing” configuration option.

  Additional information for PBX-Routing can be found in the *Solution Concept - Dial Plan Implementation with WebCDC Tool* document.
- **Customize Feature Codes** - Enable this option to customize the Prefix Access Codes for OSV vertical features in "Feature Codes" tab.
- **Enable data collection for Continuous Tracing** - Set this parameter to yes, if you want to enable Continuous Tracing for the applicable subsystems (OSV, OSB, SBC, UC).
- **Enable IPV6 Support** - Set this parameter to yes to get access to the IPV6 tab.
- **Enable External MS for Video Conference** - Enable configuration of an External Media Server used for Video Conference.

  In this case, this server may be provisioned via the "External Media Server (Video Conferences)" field in the 'IP' tab and the respective Conference Number may be provisioned via the "External Media Server Video Conference Number" field in the 'Site' tab.
- **Symphonia Admin Password (*)** - This is the 'SI_SYMPHONIA_ADMIN_PASSWORD' on the generated KNUT files.

  Default value: **Asd123!.**
- **Symphonia Community Name (*)** - This is the 'SI_COMMUNITY_NAME' on the generated KNUT files.
- **DBMS Admin Account Password (*)** - This is the 'SI_DB_LOGON_PASSWORD' on the generated KNUT files.

  Default value: **dba**

4.2.2 OpenScape UC basic configuration

- **UC Password** - This field sets the default prefill policy for UC passwords. By pressing the “Prefill UC Subscriber Data” button on UC tab, the Password field will be prefilled based on this value.

  The password should follow the UC Server password policy.
  – Default Password: This is the default value.
  – User input: The User input is required.
  – Randomize: The UC user password will be generated automatically.
- **Default UC Password Change -** Default OpenScape UC Password Change needed when logging in for the first time.
- **Default UC Password Never Expires** - Default OpenScape UC Password set at the first login, never expires.
- **UC PIN** - This is the default PIN for UC Users. By pressing the prefill button on UC tab, the PIN field will be prefilled based on this value.
  – Subscriber DN: The Subscriber Directory Number will be used as PIN.
  If the Subscriber DNlength is smaller than 8 digits then leading zeros will be added in order to be compliant with the "UC PIN length" rule.
  – User input: The User input is required
  – Randomize: The UC user PIN will be autogenerated
- **UC Default Profile** - The default Assigned Profile for OpenScape UC Users. By pressing the prefill button on OpenScape UC Data tab, the profile field will be prefilled with this value. Double click on the cell to select multiple profiles.
- **Windows Domain ID** - Used to automatically prefill windows accounts from UC account information. By pressing the prefill button on UC tab, field 'Windows Account Name' will be prefilled based on this value.

  Example: HELENA.GR

4.2.3 OpenScape Xpressions basic configuration

- **Default Voice Mail Assignment** - Specifies the default assignment of voicemail boxes to subscribers.

  If the 'Default Voice Mail Assignment' is set to yes, then all subscribers by default will have voicemail box assigned. This setting, however, can be overridden for any subscriber on the subscriber tab.
- **Xpressions abbreviated voicemail menu** - When the Xpressions abbreviated menu is active, then the voicemail menu prompt will be with short prompts, which is in most cases more end user friendly.
- **Default User Type** -
- **Default Preferred Type** - Default OpenScape Xpressions preferred type.
- **Default Password** - This is the default password for OpenScape Xpressions Users. By pressing the prefill button on OpenScape Xpressions Data tab, the Password field will be prefilled based on this value.
  – System Default: The default value is ’password’.
  – Inherit from System or Group: The password will be left empty and it will be inherited either from the Group or the System.
  – Same as OpenScape UC: The OpenScape UC account password will be used.
  – User input: The User input is required.
  – Randomize: The UC user digest password will be used.
- **Default PIN generation method** - This is the default PIN for OpenScape Xpressions Users. By pressing the prefill button on OpenScape Xpressions Data tab, the PIN field will be prefilled based on this value.
  – System default: The default is ‘00000000’

  - Inherit from System or Group: The PIN will be left empty and it will be inherited either from the Group or the System.
  - Subscriber extension: The Subscriber extension will be used as PIN
  - User input: The User input is required.
  - Randomize: The UC user PIN will be autogenerated.
- **Xpressions Conuser Type** - Not used (default) or 'username@system'.
- **Xpressions LM Account Type** - Not used (default) or 'domain\Username'.
- **Xpressions Exchange** - Not used (default) or 'emailaddress@mrs'.
- **Xpressions Paper Size** - This is used to define the paper size to print the electronic faxes received by Xpressions.
- **Languages used for Announcement** - This field defines the languages supported on the Xpressions server with a priority of the languages in the order they are defined.
  Example: DE_DE, IT_IT, EN_UK, ES_ES, FR_FR. Announcements are played in the following order: German, Italian, UK English, Spanish and French.
  For Site Delta generation the user should add only the languages for the newly defined sites.

  INFO: Double click on the field for more options.
- **User PIN modication behavior** - Possible values are PIN and Password. The default is PIN.
  - If the admin selects PIN, the user may only modify his PIN by specifying the current PIN.
  - If the admin selects Password, the user will be allowed to change his PIN by providing only the password.
- **Default GROUP** - Defines the behavior of the Xpressions Group option. The default is USER.
  - If the admin selects USER, all the Xpressions subscribers will be created with GROUP: USER.
  - If the admin selects the site name, all the Xpressions subscribers will be created with GROUP: the site name the subscriber belongs to.
- **Default Voice Mail User Options** - Default Voice Mail User Options (VM_USER_OPTIONS).

  Voice mail systems specific options can be set on user level. These are represented in a <String> via capital letters.
  INFO: Double click on the field for more options.

4.2.4 SNMP Settings

- **Version** - SNMP Version.
- **Authentication Password** - Authentication password for SNMP V3 Notifications. (This field is only visible if SNMP version is V3)
- **Authentication Protocol** - Authentication protocol for SNMP V3 Notifications. (This field is only visible if SNMP version is V3)
- **Private Password** - Private password for SNMP V3 Notifications. (This field is only visible if SNMP version is V3)
- **Private Protocol** - Private protocol for SNMP V3 Notifications (This field is only visible if SNMP version is V3)
- **SNMP Community String** - The SNMP v2 Community String of the outgoing traps generated by Xpressions and Contact Center. It must match the value configured at the trap receiver. Default value is "public".

4.2.5 Call Admission Control

- **Enable CAC Feature** - Enables/Disables the Call Admission Control feature.
- **Limit Type** - (This field is only visible if Enable CAC feature is set to yes)

- **Default Maximum Number of Calls** - (This field is only visible if SNMP version is V3)
- **Default Maximum Bandwidth (Kbps)** - (This field is only visible if SNMP version is V3)

4.2.6 OpenScape Mobile

- **Enable OSMO Feature** - Enables/Disables OpenScape Mobile Subscriber Provisioning
- **Generate OpenScape Mobile Data only** - When set to yes the generation of OpenScape Voice Script will only include OSMO related provisioning. (This field is only visible if OSMO feature is Enabled)
- **Numbering Plan** - This is the OpenScape Mobile Numbering Plan. The default value is NP_OSMO. (This field is only visible if OSMO feature is Enabled)
- **Digest Authentication method** - This is the Digest Authentication method for OpenScape Mobile subscribers:
  - User Input:
    Administrator can provision all OpenScape Mobile related subscribers with an individual Digest Authentication Password. See OpenScape Mobile Digest Password in Subscribers tab
  - Desk Phone DA:
    OpenScape Mobile Subscriber inherits the DA Credentials from the Deskphone.
  - Random:
    OpenScape Mobile Subscriber DA Password is autogenerated.
    (This field is only visible if OSMO feature is Enabled)
- **SBC TLS List** - The SBC Connection List is a list of comma separated entries of <IP:Port,... >. It will set up the SBC TLS List on the OSMO profiles on OSV.
  The field will be autofilled during generation based on the WAN Interface of the OS-SBC(s) defined in the **Endpoints** Tab.
  (This field is only visible if OSMO feature is Enabled)

  NOTE: User defined entries will be retained
- **Service Contact Mail** - This is the Contact mail of Service Personnel. (This field is only visible if OSMO feature is Enabled)
- **Voicemail** - This is the voicemail DN that OSMO client inherits from OSV in order for the OSMO user to reach his/her voicemail account.

  Format: The appropriate value is the "Xpressions Callback Access Number (UC VoiceMail)" in GNF e.g. +33145131052
  NOTE 1: Whenever the latter is updated, this field is updated as well.
  NOTE 2: This field is only visible if OSMO feature is Enabled.

4.2.7 DLS basic configuration

- **DLS Device Display ID** - Display ID defines the station number on the phone.
  - Extension sets the display as the Subscriber extension that is defined on the Subscribers tab.
  - Directory number sets the display as the Directory number of the Subscriber that is defined on the Subscribers tab.
- **Phone admin password** -
  - Default: Uses the default password which is “Asd@Dm1NPa55”
  - Random: By clicking on New the system generates a new random password
  - User defined: The user defines the password himself.
- **Phone user password** -
  - Default: Uses the default password which is “BsdU5eRPP@ssw”
  - Random: By clicking on New the system generates a new random password
  - User defined: The user defines the password himself.

4.2.8 Circuit ATC configuration

- **Enable Circuit ATC** - Enables configuration for Circuit advanced telephony connector.
  NOTE: ATC support requires Openscape Mobile to be enabled.
- **Connector URL** - Circuit URL used for client access.
  NOTE: The user may provision his own entry or select one from the drop down list of pre-configured value(s).
- **User / Circuit ID** - The GTC Trunk ID assigned in Circuit TAD tool.
- **Password** - Password assigned in Circuit TAD tool.
- **Digest Password** - Common digest password assigned to ATC subscribers.

4.3 IP Tab

This tab contains multiple distinct blocks of IP network configuration data related to the customers specific deployment. The first data block is for input of Subnet information associated with **Node 1**.

4.3.1 Subnet Information (Standard Solution/vApp)

- **Subnet** -
  - Insert an IP address to auto fill all the OSV-required subnets.
  - This data is optional and if entered the following format should be used (subnet network id)/(subnet prefix or subnet net-mask)
    e.g 192.168.1.0/24, 172.16.0.0/255.255.255.0
  - User must define a subnet to support at least of 16 IP addresses.
  - If the related button is used without any input in the cells, IP: 192.168.1.0 (and 192.168.2.0 in case of L3 separation) will be used.
  - If the IP address is entered without a Netmask, then WebCDC will automatically add /24 after the IP.
- **Subnet Default Gateway** - Default gateway subnet must be in the range of the subnet data provided. If no data is entered, the first IP in the subnet is used.
- **Starting IP** - Starting IP must be in the range of the subnet data provided.If entered all the IPs for the main data center shall be calculated based on this offset.

4.3.2 Core Solution Servers (OSEE V10)

- **License / OSCC / XPR / Concierge Server(s) (*)** - Windows 1 servers.

  Windows 1 comprises of the following components:
  - License Server
  - OpenScape Contact Center Server
  - Xpressions Server
  - Concierge Server

  IMPORTANT: This field is mandatory for OSEE V10 installations.

  NOTE: The above field is only visible when field **Contact Center version** in tab **Start** is set to a value other than **No OSCC Server**.

- **License / XPR / Concierge Server(s) (*)** - Windows 1 servers.

  Windows 1 comprises of the following components:
  - License Server
  - Xpressions Server

- Concierge Server

IMPORTANT: This field is mandatory for OSEE V10 installations.

NOTE: The above field is only visible when field **Contact Center version** in tab **Start** is set **No OSCC Server**.

- **Trace Manager / DLS Server(s) (*)** - Windows 2 servers.

  Windows 2 comprises of the following components:

  - DLS Server
  - Trace Manager Server

IMPORTANT: This field is mandatory for OSEE V10 installations.

NOTE: The above field is only visible for Standard Duplex OSV scenarios (field **OpenScape Voice Type** set to **Standard Duplex** in tab **General**).

- **Trace Manager Server (*)** - Windows 2 servers.

  Windows 2 comprises of the following component:

  - Trace Manager Server

IMPORTANT: This field is mandatory for OSEE V10 installations!

NOTE: The above field is only visible for Integrated Simplex OSV scenarios (field **OpenScape Voice Type** set to **Integrated Simplex** in tab **General**).

- **UC / CMP / Composer / IM Server(s) (*)** - UC & Composer servers.

  UC comprises of the following components:

  - UC Server (Small)
  - Common Management Portal (CMP)
  - UC Media Server
  - Instant Messaging Server

- Composer Server

IMPORTANT: This field is mandatory for OSEE V10 Standard Duplex installations! In case of Integrated Simplex, UC servers are integrated in OSV and there is a separate (standalone) Composer server.

NOTE: The above field is only visible for Standard Duplex OSV scenarios (field **OpenScape Voice Type** set to **Standard Duplex** in tab **General**).

- **Composer Server (standalone) (*)** - Composer (standalone) server.

IMPORTANT: This field is mandatory for OSEE V10 Integrated Simplex installations! In case of Standard Duplex, Composer is co-hosted with UC.

NOTE: The above field is only visible for Integrated Simplex OSV scenarios (field **OpenScape Voice Type** set to **Integrated Simplex** in tab **General**).

4.3.3 Network Addresses of Main Servers in Customer's LAN

This data block requests IP Addresses, Netmask, Hostname and other information for the (non OSV) servers in the solution. Data entered here will be used to create parts of the OSV node.cfg file, the DLS configuration, the Phone and Gateway settings and the OSV configuration file.

For OSEE V9 projects this area is modified to only display the fields needed, while the same applies to OSEE V10 projects as well.

- Details (Standard Solution/vApp)
- Details (OSEE V9)
- Details (OSEE V10)

4.3.3.1 Details (Standard Solution/vApp)

- **Domain Name (*)** - This is the domain name of the telephony solution. It is recommended to use a dedicated sub-domain of the company's domain name. Example:

  `telephony.<company domain name>`

- **DNS Servers** - A comma separated list can be entered: <ip addr1>, <ip addr2>, ... For OSEE Solutions, the OSV server is acting as the master DNS server. The IP of the OSV server can be set from field “OpenScape Voice administration IP (Management)” under the IP tab. Recommendation: DNS server in OSV Signaling subnet (or in an non-OSV subnet e.g. For an existing DNS server).
- **NTP Servers** - A comma separated list can be entered: <ip addr1>, <ip addr2>, ... Recommendation: NTP server in OSV Admin subnet (or in an non-OSV subnet e.g. For an existing NTP server).
- **SNMP Trap Receivers** - A comma separated list can be entered: <ip addr1>:<port1>, <ip addr2>:<port2>, ...

One or more servers that are part of the customer infrastructure that receives the SNMP traps of the different components of the solution (including CMP, if this is configured as a trap receiver).

- **License Server(s) (*)** - A comma separated list can be entered:
  <ip addr1>, <ip addr2>, ...
  – Mandatory, since it is used in different products to check the license count.
  – This IP address can be equal to the CMP IP address or it can be a separate License Server (CLM).
- **CSTA Application(s)** - A comma separated list can be entered here:
  <ip addr1>, <ip addr2>.
- **OpenScape Contact Center** - The IP address of OSCC server.
- **UC Front End Server(s)** - A comma separated list of UC Front End servers IPs can be entered:
  <ip addr1>, <ip addr2>, …
  Maximum of 4 are allowed.
- **UC Backend Server** - The IP address of UC Backend server.
- **UC Façade Server** - One UC Façade server IP can be entered here :<ip addr1>
- **EA Cockpit Server** - EA Cockpit application server IP.
  This field is mandatory for EA (Executive Assistant) installations!
- **Fast Viewer** - Fast Viewer IP.
- **Instant Messaging Server (Mandatory for UC)** - The Instant Messaging FQDN is configured automatically as 'openfire.<domain_name>'. It becomes a mandatory field if at least one subscriber is configured as US user.
- **DLS Server** - IP address or domain.

  For Standard Solution Architecture, the DLS is always installed on a SESAP server.

  Recommendation: SESAP/DLS server in OSV Admin subnet (or in an non-OSV subnet e.g. For an existing SESAP/DLS server).
- **SESAP Server** - For Standard Solution, the DLS is always installed on a SESAP server.
- **Common Management Platform (CMP) (Mandatory for duplex installations)** -
  – CMP in OSV Admin subnet is CMP only.
  – CMP in OSV Signaling subnet is not only CMP but also UC.
- **Xpressions Server (*)** - Xpressions server in OSV Signaling subnet (or in an non-OSV subnet e.g. For an existing Xpressions server)

  Important: This is a mandatory field on the following occasions:
  – Xpressions access DNs on the Site tab are defined
  – Auto Attendant public number(s) on the Site tab is/are defined
  – Default Voice Mail Assignment on the General tab is enabled
  – There are subscribers with voice mail assigned or entries on the Xpressions tab"
- **UC Media Servers** - Comma separated list of UC media servers. These are the media servers used for a UC conference. A SIP Endpoint will be created for each IP entered. For Integrated Simplex configurations a SIP Endpoint will automatically be created by default.
- **Central Media Servers Management** - Comma separated list of management IP addresses of the central media servers.
- **External Media Server (Video Conferences)** - This is the External Media Server used for Video Conference.
- **Central Media Servers (Mandatory when Duplex)** - Comma-separated list of MS servers in OSV signaling subnet (or in a non-OSV subnet e.g. For an existing MS server). Up to 4 central media servers are supported in the generated OSV configuration.
- **Central Media Server 2** - See above
- **Concierge Server** - This field is mandatory if the solution contains a Concierge Server.

- **Survival Authority** - SA Server in OSV Admin subnet (or in a non-OSV subnet: e.g. For an existing SA server)

NOTE: This field is mandatory for Duplex installations.

4.3.3.2 Details (OSEE V9)

- **Domain Name (*)** - This is the domain name of the telephony solution. It is recommended to use a dedicated sub-domain of the company's domain name. Example:

  `telephony.<company domain name>`

- **DNS Servers** - A comma separated list can be entered: <ip addr1>, <ip addr2>, ... For OSEE Solutions, the OSV server is acting as the master DNS server. The IP of the OSV server can be set from field “OpenScape Voice administration IP (Management)” under the IP tab. Recommendation: DNS server in OSV Signaling subnet (or in an non-OSV subnet e.g. For an existing DNS server).
- **NTP Servers** - A comma separated list can be entered: <ip addr1>, <ip addr2>, ... Recommendation: NTP server in OSV Admin subnet (or in an non-OSV subnet e.g. For an existing NTP server).
- **SNMP Trap Receivers** - A comma separated list can be entered: <ip addr1>:<port1>, <ip addr2>:<port2>, ...

  One or more servers that are part of the customer infrastructure that receives the SNMP traps of the different components of the solution (including CMP, if this is configured as a trap receiver).
- **CSTA Application(s)** - A comma separated list can be entered here: <ip addr1>, <ip addr2>.
- **SESAP Server** - For Standard Solution, the DLS is always installed on a SESAP server.
- **External Voice Media Server** - If a value is set in this field, then OSEE will be configured to use this media server instead of the integrated one in the UC server.
- **External Media Server (Video Conferences)** - This is the External Media Server used for Video Conference.
- **Survival Authority (*)** - This field is only displayed if the OpenScape Voice Type field is set to "Standard_Duplex" in the General tab. It is recommended that the SA server is in the OSV Admin subnet.

4.3.3.3 Details (OSEE V10)

- **Domain Name (*)** - This is the domain name of the telephony solution. It is recommended to use a dedicated sub-domain of the company's domain name, for example telephony: < company domain name >
- **DNS Servers** - A comma separated list can be entered here: < ip addr1>, < ip addr2>, ...

  Recommendation: DNS server in OSV Signaling subnet (or in a non-OSV subnet e.g. For an existing DNS server).

IMPORTANT: The first entry of the list is acting as the master DNS server for the solution.

- **NTP Servers** - A comma separated list can be entered here: < ip addr1>, < ip addr2>, ...

Recommendation: NTP server in OSV Admin subnet (or in a non-OSV subnet e.g. For an existing NTP server).

IMPORTANT: The first entry of the list is acting as the master NTP server for the solution.

- **SNMP Trap Receivers** - A comma separated list can be entered here:
  < ip addr1>:< port1>, < ip addr2>:< port2>, ...

  One or more servers that are part of the customer infrastructure that receives the SNMP traps of the different components of the solution (including CMP, if it is configured as a trap receiver).
- **CSTA Application(s)** - A comma separated list can be entered here:
  < ip addr1>, < ip addr2>, ...
- **UC Façade Server** - UC Façade Server IP.
- **SESAP Server -** SESAP server IP.
- **External Media Server (Video Conferences)** - This is the External Media Server used for Video Conference.

NOTE: The above field is only visible when field **Enable External MS for Video Conference** in tab **General** is set to **yes**.

- **Survival Authority** -

  Recommendation: SA server in OSV subnet (or in a non-OSV subnet e.g. For an existing SA server).

  If the field is not set, the value of **UC/CMP/Composer/IM Server(s) IP** will be set.

NOTE: The above field is only visible for Standard Duplex OSV scenarios (field **OpenScape Voice Type** set to **Standard Duplex** in tab **General**).

4.3.4 Network for OpenScape Voice

This section of the tab is used to set the OpenScape Voice specific node names and their IP addresses, netmasks and default gateways IP addresses for the signaling manager, administration, billing reporting and internode cross-connection link functions.

For OSEE V9 projects this area is modified to only display the fields needed, while the same applies to OSEE V10 projects as well.

- Details (Standard Solution/vApp)
- Details (OSEE V9)
- Details (OSEE V10)

4.3.4.1 Details (Standard Solution/vApp)

NOTE: If “Openscape Voice Type” has been set to “Integrated Simplex” in the “**General**” tab, then the second IP address column for each field in this section will not appear.

- **Subnet Sharing (*)** - Supports options for the Management, Billing and Signaling traffic to be on separate IP subnets or to use shared subnets. The following options exist:
  - Mgmt-Billing-Signaling-Separated (applicable to Standard Solution only)
  - Mgmt-Billing-Shared
  - Mgmt-Billing-Signaling-Shared
- **Share Admin and Cluster Interface** -
- **Cluster Name (*)** - This is the cluster name introduced in Node.cfg. It should be provided either when OSV is Integrated Simplex or Standard Duplex.

  Important: Cluster Name is used in logicalBranchOfficeId of the OpenBranch Proxy/CSBC xml file so that OpenBranch Assistant can communicate with these modules. For a Central Deployment of Licenses, License Server(s) field should contain the IP Address of CMP. Changing the Cluster Name in NCPE will result to a non compatible logicalBranchOfficeId provisioned in OpenBranch Modules.Though this can be changed manually from the OpenBranch Advanced tabs or from the OpenBranch local GUI.

  Proxy logicalBranchOfficeId format:
  <Cluster Name>:<Business Group>:<Branch Office Name>

  CSBC logicalBranchOfficeId format:
  <Cluster Name>:<Business Group>:<Endpoint Name>

  Cluster Name Limitations:
  - Maximum 20 Digits Long
  - First Character must be alphabetical
  - Only Alphanumeric and “underscore” characters are allowed
  - Only lowercase characters should be used for consistency

The next section located after the ’Network for OpenScape Voice’ section allows the user to configure the subnet IP addresses (Network ID), Netmask, and Default Gateway settings which are then used for the OSV’s node.cfg configuration file. These network settings are grouped into settings for **Node1** and **Node2.**

- **Node Hostname (*)** - Configures the hostname of the OSV Server node to the entered name.
- **OpenScape Voice administration IP (Management)** - The OpenScape Voice Management IP is the physical IP of the OSV server.
  - For OSEE configurations OSV server is acting as the primary DNS Server of the solution. Thus the user either has to fill this IP or ensure the generation of the node.cfg with CDC.
  - If you don’t manually prefill the IP address, it will be calculated automatically.
- **OpenScape Voice remote admin IP (RSA)** - The OpenScape Voice Remote Admin IP address of the OSV server.

  NOTE: If you don't manually prefill the IP address, it will be calculated automatically.
- **OpenScape Voice signaling IP** - The OpenScape Voice Signaling IP address of the OSV server.

  NOTE: If you don't manually prefill the IP address, it will be calculated automatically.
- **OpenScape Voice signaling managers IP (SIPSM) (*)** - The SIPSM IP address of the OpenScape Voice where the SIP messages are sent too (e.g. REGISTER)

  NOTE: If you don’t manually prefill the IP Address, it will be calculated automatically.
- **OpenScape Voice signaling FQDN name (SIPSM)** - SIP signaling manager FQDN. The value must be part of the OSV domain i.e. osv.<Domain Name>.

  This value is automatically generated for OSEE deployments or when left empty in RA solution.

  NOTE: Both FQDN and DNS SRV entries should be filled if "Enable FQDN support on OSV" on the General tab is set to 'yes'
- **OpenScape Voice signaling DNS SRV name (SIPSM)** - SIP signaling manager DNS SRV. The value must be part of the OSV domain i.e. osv.<Domain Name>.

  This value is automatically generated for OSEE deployments or when left empty in RA solution.

NOTE: Both FQDN and DNS SRV entries should be filled if "Enable FQDN support on OSV" on the General tab is set to 'yes'

- **OpenScape Voice MTLS FQDN name (SIPSM)** - SIP MTLS signaling manager FQDN. The value must be part of the OSV domain i.e. osv.<Domain Name>;.

  This value is automatically generated for OSEE deployments or when left empty in RA solution.

  NOTE: Both FQDN and DNS SRV entries should be filled if "Enable FQDN support on OSV" on the General tab is set to 'yes'.

- **OpenScape Voice MTLS DNS SRV name (SIPSM)** - SIP MTLS signaling manager DNS SRV. The value be part of the OSV domain i.e. osv.<Domain Name>.

  This value is automatically generated for OSEE deployments or when left empty in RA solution.

  NOTE: Both FQDN and DNS SRV entries should be filled if "Enable FQDN support on OSV" on the General tab is set to 'yes'.

- **OpenScape Voice MTLS IP** - This field is mandatory if the TLS protocol is selected as SIP transport protocol! This field is only mandatory if you do NOT generate a node.cfg via WebCDC and TLS protocol is selected. When you generate a node.cfg with WebCDC, then this field is filled in automatically.

- **OpenScape Voice billing IP** - The OSV Billing IP address of the OSV server.

  NOTE: If you don't manually prefill the IP address, it will be calculated automatically

- **OpenScape Voice cluster interconnect IP (Xchannel)** - The OSV Cluster Interconnect IP address of the OSV server.

  NOTE: If you don't manually prefill the IP address, it will be calculated automatically

- **OpenScape Voice CSTA IP** - The OSV CSTA IP address of the OSV server.

  NOTE: If you don't manually prefill the IP address, it will be calculated automatically.

- **OpenScape Voice LSM IP** - The OSV LSM IP address of the OSV server.

  NOTE: If you don't manually prefill the IP address, it will be calculated automatically.

- **OpenScape Voice MGCP/NCS IP** - The OSV MGCP/NCS IP address of the OSV server.

  NOTE: If you don't manually prefill the IP address, it will be calculated automatically.

- **Administration Network ID (*)** - This field is mandatory if WebCDC needs to generate a node.cfg or when an Integrated Simplex OSV is used in solution.

- **Administration Netmask (*)** - This field is mandatory if WebCDC needs to generate a node.cfg or when an Integrated Simplex OSV is used in solution.

- **Administration Default Gateway (*)** - This field is mandatory if WebCDC needs to generate a node.cfg or when an Integrated Simplex OSV is used in solution.

- **Administration Start IP address** -
  - The start IP address needs to be different than the Network ID. Normally the network ID is not used as IP address.
  - When the Start IP address is filled in, then WebCDC uses this start IP address.
  - If the field is empty, then WebCDC takes automatically the Network ID + 2 as Start IP address.
  - This field is mandatory if WebCDC needs to generate a node.cfg or when an Integrated Simplex OSV is used in solution.

- **Signaling Network ID (*)** - Signaling Network ID (subnet)

- **Signaling Netmask (*)** - Signaling Netmask

- **Signaling Default Gateway (*)** - Signaling Default Gateway

- **Signaling Start IP Address** -
  - The start IP address needs to be different than the Network ID. Normally the network ID is not used as IP address.
  - When the Start IP address is filled in, then WebCDC uses this start IP address.

  - If the field is empty, then WebCDC takes automatically the Network ID + 2 as Start IP address.
  - This field is mandatory if WebCDC needs to generate a node.cfg or when an Integrated Simplex OSV is used in solution.

- **Billing Network ID (*) -**
- **Billing Netmask (*)** -
- **Billing Default Gateway (*) -**
- **Billing Start IP address** -
- **Cluster Interconnect Network ID -** This field is mandatory if WebCDC needs to generate a node.cfg
- **Cluster Interconnect Netmask** - This field is mandatory if WebCDC needs to generate a node.cfg
- **Cluster Interconnect Default Gateway** - This field is mandatory if WebCDC needs to generate a node.cfg
- **Cluster Interconnect Start IP address** - This field is mandatory if WebCDC needs to generate a node.cfg

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NOTE: A second block of data (identical to the above) will be displayed for **Node 2** when **OpenScape Voice Type** is set to **Standard Duplex**.

Buttons on this tab:

- **Auto fill OSV Subnets** - Fills in the IP address information based upon pre-set assignments and information provided in the **Subnet** field.

4.3.4.2 Details (OSEE V9)

- C**luster Name (*)** - This is the cluster name introduced in Node.cfg. It should be provided either when OSV is Integrated Simplex or Standard Duplex.

  Important: Cluster Name is used in logicalBranchOfficeId of the OpenBranch Proxy/CSBC xml file so that OpenBranch Assistant can communicate with these modules. For a Central Deployment of Licenses, License Server(s) field should contain the IP Address of CMP. Changing the Cluster Name in NCPE will result to a non compatible logicalBranchOfficeId provisioned in OpenBranch Modules.Though this can be changed manually from the OpenBranch Advanced tabs or from the OpenBranch local GUI.

- **Node 1 Hostname (*)**
- **Node 2 Hostname (*)** - This field is only displayed if the OpenScape Voice Type field is set to "Standard_Duplex" in the General tab.

4.3.4.3 Details (OSEE V10)

- **Subnet Sharing (*)** - Select the sharing of the following Subnets:
  - Administration (Mgmt)
  - Signaling

- Billing

IMPORTANT: For OSEE V10 installations, this field is non-editable by the user (greyed-out) and set to 'Mgmt-Billing-Signaling-Shared'!

- **Share Admin and Cluster Interface (*)** - This field is only applicable to Standard Duplex OSV scenarios (field "OpenScape Voice Type" set to "Standard Duplex" in tab 'General').

IMPORTANT: For OSEE V10 installations, this field is non-editable by the user (greyed-out) and set to '**yes**'!

- **Cluster Name (*)** - Cluster Name is used in logicalBranchOfficeId of the OpenBranch Proxy/ CSBC xml file so that OpenBranch Assistant can communicate with these modules. For a Central Deployment of Licenses, License Server(s) field should contain the IP Address of CMP.

  Changing the Cluster Name in NCPE will result to a non compatible logicalBranchOfficeId provisioned in OpenBranch Modules.Though this can be changed manually from the OpenBranch Advanced tabs or from the OpenBranch local GUI.

- **Proxy logicalBranchOfficeId format:**

  `<Cluster Name>:<Business Group>:<Branch Office Name>`

- **CSBC logicalBranchOfficeId format:**

  `<Cluster Name>:<Business Group>:<Endpoint Name>`

- **Cluster Name Limitations:**
  - Maximum 20 Digits Long
  - First Character must be alphabetical
  - Only Alphanumeric and "underscore" characters are allowed
  - Only lowercase characters should be used for consistency

  The next section located after the 'Network for OpenScape Voice' section allows the user to configure the subnet IP addresses (Network ID), Netmask, and Default Gateway settings which are then used for the OSV's `node.cfg` configuration file. These network settings are grouped into settings for Node1 and Node2 (in case of Standard Duplex OSV).

NOTE: A second block of data (identical to the above) will be displayed for Node 2 when OpenScape Voice Type is set to Standard Duplex.

- **Node Hostname (*)** - Configures the hostname of the OSV Server node to the entered name.
- **OpenScape Voice IP (Management/Signaling) (*)** - Configures the hostname of the OSV Server node to the entered name.

IMPORTANT: This field is mandatory for OSEE V10 installations.

NOTE: The above field is only visible for Integrated Simplex OSV scenarios (field **OpenScape Voice Type**" set to **Integrated Simplex** in tab **General**).

- **OpenScape Voice administration IP (Management) (*) -** The OpenScape Voice Management IP is the physical IP of the OSV server.

  IMPORTANT: This field is mandatory for OSEE V10 installations.

  NOTE: The above field is only visible for Standard Duplex OSV scenarios (field **OpenScape Voice Type** set to **Standard Duplex** in tab **General**).

- **OpenScape Voice signaling managers IP (SIPSM) (*)** - The SIPSM IP address is the IP address of the OpenScape Voice where the SIP messages are sent (e.g. REGISTER).

  IMPORTANT: This field is mandatory for OSEE V10 installations.

  NOTE: The above field is only visible for Standard Duplex OSV scenarios (field **OpenScape Voice Type** set to **Standard Duplex** in tab **General**).

- **OpenScape Voice Network ID (*) -**

  IMPORTANT: This field is mandatory for OSEE V10 installations!

- **OpenScape Voice Netmask (*) -**

  IMPORTANT: This field is mandatory for OSEE V10 installations!

- **OpenScape Voice Default Gateway (*) -**

  IMPORTANT: This field is mandatory for OSEE V10 installations!

- **OpenScape Voice signaling FQDN name (SIPSM) -** SIP signaling manager FQDN. The value must be part of the OSV domain i.e. osv.`<Domain Name>`.

  This value is automatically generated when left empty.

  NOTE: Both FQDN and DNS SRV entries should be filled if **Enable FQDN support on OSV** on the General tab is set to **yes**.

  NOTE: The above field is only visible when field **Enable FQDN support on OSV** in tab **General** is set to **yes**.

- **OpenScape Voice signaling DNS SRV name (SIPSM) -** SIP signaling manager DNS SRV. The value must be part of the OSV domain i.e. osv.<Domain Name>.

This value is automatically generated when left empty.

NOTE: Both FQDN and DNS SRV entries should be filled if "Enable FQDN support on OSV" on the General tab is set to 'yes'.

NOTE: The above field is only visible when field "Enable FQDN support on OSV" in tab 'General' is set to "yes".

- **OpenScape Voice MTLS FQDN name (SIPSM)** - SIP MTLS signaling manager FQDN. The value must be part of the OSV domain i.e. `osv.<Domain Name>`.

  This value is automatically generated when left empty.

  NOTE: Both FQDN and DNS SRV entries should be filled if "Enable FQDN support on OSV" on the General tab is set to 'yes'.

  NOTE: The above field is only visible when field "Enable FQDN support on OSV" in tab 'General' is set to "yes".

- **OpenScape Voice MTLS DNS SRV name (SIPSM)** - SIP MTLS signaling manager DNS SRV. The value must be part of the OSV domain i.e. `osv.<Domain Name>`.

  This value is automatically generated when left empty.

  NOTE: Both FQDN and DNS SRV entries should be filled if "Enable FQDN support on OSV" on the General tab is set to 'yes'.

  NOTE: The above field is only visible when field "Enable FQDN support on OSV" in tab 'General' is set to "yes".

4.3.5 SBC THIG

This data block is only displayed for OSEE V9 projects and is used to set up the IP addresses, netmask and default gateways IP addresses for the SBC THIG (Topology Hiding Interworking Gateway).

- **Redundancy** - The SBC THIG redundancy deployment. Single or Redundant. Default value is Single.

  Note: If the OpenScape Voice Type field is set to "Duplex" in the General tab, this field is set to "Redundant" by default and cannot be changed.

- **WAN interface Management IP address 1** - The WAN interface management IP address of SBC node 1.
- **WAN interface Management IP address 2** - The WAN interface management IP address of SBC node 2.

  Note: This field is only displayed if the Redundancy field is set to "Redundant"

- **WAN interface Management Virtual IP address** - This field is only displayed if the Redundancy field is set to "Redundant".

- **WAN interface Signaling IP address 1** - The WAN interface signaling IP address of SBC node1.
- **WAN interface Signaling IP address 2** - The WAN interface signaling IP address of SBC node2.

  Note: This field is only displayed if the Redundancy field is set to "Redundant"
- **WAN interface Signaling Virtual IP address** - This field is only displayed if the Redundancy field is set to "Redundant"
- **WAN network Netmask**
- **WAN network Default GW**

4.3.6 ESXi and VM Data (OSEE V10)

- **Enable Root Access support (*)** - Enables/Disables WebCDC support for Root Access installation scenarios.

  NOTE: All fields below become visible and thus editable by the user only if Enable Root Access support is set to 'yes'.

  NOTE: In case field "Hypervisor Configuration" in tab 'General' is set to "Software only", Root Access support becomes non-editable by the user (greyed-out) and is set to 'no' which consequently means that fields below are not visible in the UI as well.

- **ESXi Host 1** - Data of ESXi Host 1.

  All data are optional; if one or more field(s) is/are not set under section "ESXi and VM Data", manual intervention for generated file "esxi_mapping.json" will be required during the installation process for it/them to be set by the user.

  IMPORTANT: Usernames set must be of a user account with root privileges!

- **ESXi Host 2** - Data of ESXi Host 2.

  All data are optional; if one or more field(s) is/are not set under section "ESXi and VM Data", manual intervention for generated file "esxi_mapping.json" will be required during the installation process for it/them to be set by the user.

  IMPORTANT: Usernames set must be of a user account with root privileges!

  NOTE: The above field is only visible when field "Hypervisor Configuration" in tab 'General' is set to either "2 ESXis" or "3 ESXis".

- **ESXi Host 3** - Data of ESXi Host 3.

  All data are optional; if one or more field(s) is/are not set under section "ESXi and VM Data", manual intervention for generated file "esxi_mapping.json" will be required during the installation process for it/them to be set by the user.

  IMPORTANT: Usernames set must be of a user account with root privileges!

  NOTE: The above field is only visible when field "Hypervisor Configuration" in tab 'General' is set to "3 ESXis".

- **OSV** - Data of the OSV VM.

All data are optional; if one or more field(s) is/are not set under section "ESXi and VM Data", manual intervention for generated file "esxi_mapping.json" will be required during the installation process for it/them to be set by the user.

IMPORTANT: Names between VMs must be unique!

NOTE: The above field is only visible for Integrated Simplex OSV scenarios (field "OpenScape Voice Type" set to "Integrated Simplex" in tab 'General').

- **OSV Node 1** - Data of the OSV Node 1 VM.

  All data are optional; if one or more field(s) is/are not set under section "ESXi and VM Data", manual intervention for generated file "esxi_mapping.json" will be required during the installation process for it/them to be set by the user.

  IMPORTANT: Names between VMs must be unique!

  NOTE: The above field is only visible for Standard Duplex OSV scenarios (field "OpenScape Voice Type" set to "Standard Duplex" in tab 'General').

- **OSV Node 2** - Data of the OSV Node 2 VM.

  All data are optional; if one or more field(s) is/are not set under section "ESXi and VM Data", manual intervention for generated file "esxi_mapping.json" will be required during the installation process for it/them to be set by the user.

  IMPORTANT: Names between VMs must be unique!

  NOTE: The above field is only visible for Standard Duplex OSV scenarios (field "OpenScape Voice Type" set to "Standard Duplex" in tab 'General').

- **UC** - Data of the UC VM (UC / CMP / Composer / IM Server(s)).

  All data are optional; if one or more field(s) is/are not set under section "ESXi and VM Data", manual intervention for generated file "esxi_mapping.json" will be required during the installation process for it/them to be set by the user.

  IMPORTANT: Names between VMs must be unique!

  NOTE: The above field is only visible for Standard Duplex OSV scenarios (field "OpenScape Voice Type" set to "Standard Duplex" in tab 'General').

- **Composer** - Data of the Composer VM (Composer Server (standalone)).

All data are optional; if one or more field(s) is/are not set under section "ESXi and VM Data", manual intervention for generated file "esxi_mapping.json" will be required during the installation process for it/them to be set by the user.

IMPORTANT: Names between VMs must be unique!

NOTE: The above field is only visible for Integrated Simplex OSV scenarios (field "OpenScape Voice Type" set to "Integrated Simplex" in tab 'General').

- **Windows 1** - Data of the Windows 1 VM (License / (OSCC) / XPR / Concierge Server(s)).

  All data are optional; if one or more field(s) is/are not set under section "ESXi and VM Data", manual intervention for generated file "esxi_mapping.json" will be required during the installation process for it/them to be set by the user.

  IMPORTANT: Names between VMs must be unique!

- **Windows 2** - Data of the Windows 2 VM (Trace Manager / DLS Server(s) for Standard Duplex or Trace Manager Server for Integrated Simplex OSV scenarios).

  All data are optional; if one or more field(s) is/are not set under section "ESXi and VM Data", manual intervention for generated file "esxi_mapping.json" will be required during the installation process for it/them to be set by the user.

  IMPORTANT: Names between VMs must be unique!

4.4 Site Tab

Each site's (headquarters and remote offices) basic parameters that are to be used in the generation of the solution are defined in this tab.

- Site data: extensions range, time zone, numbering plan information.
- Application servers, the remote sites' gateways and proxies.
- Subscriber Data: basic data items related to the site's subscribers.
- Whether Local Toll Tables are used.
- Number of channels (CAC) used in the WAN.

NOTE: Please refer to Section 2.5.1, "Solution Configuration" for more details.

- **Delta** - When Delta generation on the Start tab is set to "Delta on OSV configuration" and the user clicks on "Generate Config", only sites that have the Delta value set to 'yes' will be generated.

  Information on how to use the Delta on OSV configuration capability:
  - Import your 8k configuration into WebCDC using the "Import OSV data (MP2)" button. You will also be asked to provide a copy of the OSCV node.cfg file. When this step is completed, the field Delta generation on the Start tab will be automatically switched to "Delta on OSV configuration".
  - On the Site tab, mark the Delta Site(s) to be generated by setting the respective value(s) to 'yes'.
  - Finish entering the configuration data for Delta on OSV configuration on the other tabs (i.e., Endpoints tab, Analog Adapters tab, etc.).
  - Generate delta configuration by clicking on the "Generate Config" button.

- **Site Name** - For the site name following has to be taken into account:
  - The site name cannot be longer than 10 characters.
  - The site name has to be a valid DNS name, e.g. alphanumeric characters, a minus (-) and a period (.) are allowed.

- **Site Component in the Domain Name (FQDN)** - The site component in the Domain Name (FQDN) is entered in this field. Typically for constructing the FQDN name one has:
  <hostname>.<site part>.<company domain name>
  This is used for defining the FQDN of the proxy in the branch.

- **DNS SRV Record of the Site Proxy (DNS SRV)** - The value in this cell refers to the DNS SRV of the Proxy.

  - For full proxy redudancy this field should be configured.
  - For OSEE solutions this field is being autogenerated and DNSSRV entries are used for redundancy purposes where possible.
  - For RA solutions the user should set up the DNS server manually.

  If "Site Component in the Domain Name" IS filled and "DNS SRV Record Of The Site Proxy" IS also filled then:

  - In OSV script:
    - Proxy EPs are configured using <hostname>.<site_part>.<solution_domain> (FQDN record in DNS).
    - EPs behind the Site Proxy EP are configured using the <hostname>.<site_part>.<solution_domain> (FQDN record in DNS)
  - In DLS template:
    - The SIP Proxy/Gateway is configured using the "DNS SRV Record Of The Site Proxy" (DNSSRV record in DNS. Redudancy enabled).
  - In Proxy script:
    - The "DNS SRV Record Of The Site Proxy" is used.

Else if “Site Component in the Domain Name” IS filled and “DNS SRV Record Of The Site Proxy” IS NOT filled then:

– In OSV script:
  • Proxy EPs are configures using <hostname>.<site_part>.<solution_domain> (FQDN record in DNS).
  • EPs behind Site Proxy EP are configured using the <hostname>.<site_part>.<solution_domain> (FQDN record in DNS)

– In DLS template:
  • The SIP Proxy/Gateway is configured using the hostname.site_part.solution_domain (FQDN record in DNS. No proxy redudancy for devices)

– In Proxy script:
  • The <hostname>.<Site Component in the Domain Name>.<domainName> is used.

Else if “Site Component in the Domain Name” IS NOT filled and “DNS SRV Record Of The Site Proxy” IS filled then:

– In OSV script:
  • Proxy EPs are configured using <hostname>.<site_part>.<solution_domain> (FQDN record in DNS)
  • EPs behind Site Proxy EP are configured using the <hostname>.<site_part>.<solution_domain> (FQDN record in DNS)

– In DLS template:
  • The SIP Proxy/Gateway is configured using the "DNS SRV Record Of The Site Proxy" (DNSSRV record in DNS. Redudancy enabled)

– In Proxy script:
  • The “DNS SRV Record Of The Site Proxy” is used

Else if “Site Component in the Domain Name" IS NOT filled and "DNS SRV Record Of The Site Proxy” IS NOT filled then:

– In OSV script:
  • Proxy EPs are configured using IP address defined in Endpoints tab.
  • EPs behind Site Proxy EP are configured using IP addresses defined in Endpoints tab (if they are static registered).

– In DLS template:
  • The SIP Proxy/Gateway is configured using IP address defined in Endpoints tab (No proxy redudancy for devices).

– In Proxy script:
  • It is not defined.

• **Extension ranges** - Comma separated list. The (internal or external) extension range for the subscribers.

  These extension ranges can be part of the public extension ranges (these public ranges are given in the Endpoints tab) or not (private extensions).

  CDC detects itself if the extension ranges overlap with the ones in the endpoint tab, and then we have public numbers, or if the extension range does not overlap with the extension range in the endpoint tab, and then we have private extensions.

  If this field is left empty then this field is assumed to have the same values as the public extensions (all internal extensions are related to a public number)

- **Office Code for OpenScape Mobile feature** - This is the Site Office Code used to construct the OSMO Subscribers range for a specific site. Length: 3-8 digits.

  NOTE: If this field is left empty for a site, the OSMO subscribers will not be generated for this specific site even if the field "OpenScape Mobile Feature" is set to 'yes' on Subscribers tab.

- **Access code for outgoing line** - The code to dial outside. Typically 9 for US and 0 for the rest of the world.
- **Time Zone** - The time zone of the Headquarters is used for the installation of the OSV system (node.cfg)
- **Make default subscribers for the extension range** - If set to "yes" then subscribers are added according to the above given extension range of the site. For any other value the range of subscribers will not be created.
- **Make the created subscribers also OpenScape UC App. users** - If "Make default subscribers for the extension range" is set to "yes" then this flag is set to "yes" too and the default added subscribers are made OpenScape UC App. users.
- **Make default OpenScape Mobile Subscribers** -
- **Site prefix** - For sites with open numbering or sites with private only numbers, a site prefix is entered. If no prefix is entered then it is assumed that all users have public numbers. A maximum of sever digits is allowed for the site prefix.
- **Local DNS server** - In case you have a remote site with it's own DNS server (other than the OpenScape Branch), then you can enter the IP address of the DNS server that will be used as primary DNS server of that remote site's OpenScape Branch.

  The DNS server(s) defined in the "IP" tab will be used as secondary. This is however optional.

  If you leave this field empty, then the remote site's OpenScape Branch will use the DNS server(s) defined in the "IP" tab. Headquarters always use the DNS server in "IP" tab; thus this option is disabled.

- **Local NTP server** - In case you do have a remote site with it's own NTP server other than the OpenScape Branch), then you can enter the IP address of the NTP server for that remote site. This is however optional. If you leave this field empty, then the site will use the central NTP server IP Address as defined in the "IP" tab.

  During the "generate all configuration files" the CDC will assign following NTP server for following devices:

  IP Phones get the OpenScape Branch as NTP server. Gateways get the OpenScape Branch as NTP server. OpenScape Branch get the Local NTP server when filled in for this remote side, otherwise the central NTP server is used.

- **Backup Gateway for Local Gateway** - The name must match a site name used. This is the backup gateway for the local gateway (found in local numbering plan, PNP).
- **Central Gateway** - The name must match a site name, where the central GW is located. Central GW is found in the common numbering plan.
- **Default Device Type for the Subscribers (*)** - If no device is chosen for a subscriber ("Device Type" in "Subscribers" tab) then the device type chosen here is taken for this subscriber.
- **Default Dialing Permissions for the Subscribers (*)** - If no dialing permission is chosen for a subscriber ("Subscriber permissions" in "Subscribers" tab) then the dialing permissions chosen here is taken for this subscriber.
- **Default Prompt Language for the Subscribers (*)** - If no prompt language is chosen for a subscriber ("Prompt Language" in "Subscribers" tab) then the prompt language chosen here is taken for this subscriber.

  NOTE: WebCDC offers 3 different options for the English language: British English, American English, and English. If the last option (English) is set, WebCDC will automatically change the Prompt Language to British English, except if the Country Code in the Endpoints tab is set to 1 (US), where in this case it will be changed to American English.

- **Default Xpressions Language for the Subscribers** - If no language is chosen for a subscriber (“Language” in “OpenScape Xpressions Data” tab) then the language chosen here is taken for this subscriber in Xpressions.
- **Second Language for Announcements (optional)** - The option exists for supporting a second language. The language must also be installed on the media server.

  NOTE: WebCDC offers 3 different options for the English language: British English, American English, and English. If the last option (English) is set, WebCDC will automatically change the Prompt Language to British English, except if the Country Code in the Endpoints tab is set to 1 (US), where in this case it will be changed to American English.
- **Xpressions Direct Access Number** - This call number is used to access the voicemail system (Xpressions) and is dialable from PSTN. Therefore it must be a valid DID number.
  – Each site should have direct access numbers defined.
  – If not provided, access numbers from the head quarter site shall be used which could be a long distance call to access the voice mail server from the sites other than headquarter.
- **Xpressions Guest/Forward Access Number** - This call number is used for the call forwarding to Xpressions on the phones. On the phones which are controlled by the DLS server, there is a features XML Template. User can provision either DID number of fully defined Private number.
  – In the features template, there is the Xpressions call forward access number, so that the users can easily activate on their phone a call forward to their voicemail.
  – WebCDC will write this Xpressions callback Access Number automatically in the DLS miscellaneous Template (CDC_Template_<sitename>_misc.xml)
  – When these call numbers are empty for a site (non-HQ site), then the XPR call numbers of the HQ are used, which could be a long distance call to access the voice mail server from the sites other than headquarter.
- **Xpression Callback Access Number (UC Voicemail)** - This call number is used for the MWI led on the phones. When the MWI led is on, and the MWI key is pressed, then the phone will call the Xpressions callback Access Number. User can provision either DID number of fully defined Private number.
  – WebCDC will write this Xpressions callback Access Number automatic in the DLS miscellaneous Template (CDC_Template_<sitename>_misc.xml).
  – When these call numbers are empty for a site (non-HQ site), then the XPR call numbers of the HQ are used, which could be a long distance call to access the voice mail server from the sites other than headquarter.

  Note: This number is used by UC for VoiceMail
- **Xpressions Transfer Access Number** - User can provision either DID number of fully defined Private number.

  When these call numbers are empty for a site (non-HQ site), then the XPR call numbers of the HQ are used, which could be a long distance call to access the voice mail server from the sites other than headquarter.
- **Xpressions Trusted Transfer Mode Number** - An optional parameter. WebCDC uses this value to populate the “RemTrustedDomainCallNumber” inside the CDC_XprConfigFile.xml script.
  – User can provision either DID number of fully defined Private number.
  – When empty for a (non-HQ) site, then the XPR call numbers of the HQ are used.
- **Media Server Conference Number** - This is the dial-in number when the Media Server is used as conference bridge.
- **External Media Server Video Conference Number** - This is the dial-in number of the External Media Server used for Video Conferences.
- **Operator Extension** - This is a central operator that is connected when an option “0” is chosen in the Auto Attendant menu. Note: there needs to be an entry on the Subscriber tab for this extension.
- **Auto Attendant Public Number** - The external number used to call the auto attendant.

- **Must Answer Number** - The Must Answer Position (MAP) is an optional number, but if fulled in then it has to be an existing subscriber number (either a fully qualified public number or fully qualified private number). Usually the MAP is a subscriber that has a high availability like a reception desk or security.
- **Site Subnets** - Subnet of the site, e.g. 10.235.100.0/24.
- **Use Local Toll Tables** - Only applicable for the US.
  – "yes" -the local toll tables will be used to expand the destination codes for the local calling.
  – "no" - only national calling will be used towards the PSTN
  – If left blank, then default is "no" which means that only national calling will be used towards the PSTN.

  NOTE: Additional information on LTT is available in the *Solution Concept - Dial Plan Implementation with WebCDC Tool* document.
- **Pbx migration routing** - This setting is only applicable in Pbx Migration case when some subscribers have been migrated from existing PBX to OSV. This setting defines how the call to subscribers on PBX will be routed when called from another branch.
- **Do Carrier Codes need to be dialed?** - This setting applies only for sites of countries where carrier code dialing is supported (e.g. Brazil).
  – When setting this field to Yes, the user needs to dial a carrier code to dial out to the PSTN. This carrier code is not remembered and will not be used on the outbound route. This should be used when users are frequently making mistakes when they have to dial carrier codes at home and then not have to dial them when at work.
  – When setting this field to No (default setting if left empty), the user does not need to dial a carrier code to dial out to the PSTN.
  – In any case the dialed carrier code is ignored and replaced with the presubscribed long distance carrier code entered on the Endpoints data tab, between the international or national prefix and the international or national number from the Endpoints data tab.
- **Default First Speed Dial List** - Primary Speed Dial list for the site
- **Default Second Speed Dial List** - Secondary Speed Dial list for the site

4.5 Endpoints Tab

The rows in this table are used to configure information specific to the remote sites in the target **Standard Solution** deployment. This includes the type of the remote device, its associated IP network addresses, netmasks and default gateway settings as well as the remote's PSTN call routing information such as country code, area code and its local exchange code (office code).

- **Endpoint Name (Gateway or Proxy Name) (*)** - A PSTN gateway or proxy name to be used in the headquarters or a branch office indicated under the Site Name column.

  NOTE: The endpoint name can not be longer than 15 characters with the exception of a "Central SBC" in which case it cannot exceed 12 characters.

- **Site Name (*)** - The site name as defined in the Site tab. The cells are a dropdown box that can be updated with the 'Update Site dropdown list' button (not automatically).

- **Hostname (*)** - Host Name of the endpoint as it is known in the Network topology (DNS). This is NOT the FQDN, so only one name is needed, without any period.

- **Endpoint Type (*)** - The possible gateway or proxy types
  NOTE: If the Type 'Others' is selected, the Destination route in the OSV will be created with Type Of Number (NOA) 'Unknown' and the number will be forwarded in +E164 format. Based on the Gateway configuration the user might need to manually modify the destination configuration on OSV.

- **Endpoint Signaling Type (*)** - SIP or SIP-Q. Default value is SIP

- **Endpoint Usage (*)** - This attribute describes how the endpoint is used:
  - Gateway: with connection to PSTN.
  - Proxy: as outbound SIP proxy
  - Proxy ATA: OSB in Proxy ATA mode
  - Gateway And Proxy: combined gateway and proxy use (OSB50i)
  - SBCProxy: SBC in Proxy mode
  - BranchSBC: SBC in Branch SBC mode
  - BranchSBC behind cSBC: SBC in Branch mode connected to the WAN interface of a Central SBC
  - CentralSBC: SBC in Central SBC mode in headquarters site
  - Dummy: only used for sites without local gateway to detect the office code parameters (e.g. country and area code). For dummy endpoints the endpoint type, signaling type and network data are not used.

  If a site has no local gateway and a dummy endpoint is chosen then no Branch Office will be created for this specific site.

NOTE: Virtual Branch Office under Main Office can only be created via CMP.

  If a site has no local gateway and no dummy endpoint is chosen then all the subscribers of this site are private numbers.

- **SBC Installation Mode** - This field applies only to endpoints configured with Central SBC or Circuit ATC Usage.

  - Normal: The SBC's LAN and WAN interfaces are connected to two different IP networks or subnets.

  - Single Armed: The SBC's LAN and WAN interfaces are connected to the same IP subnet.

  Default value is Normal.

- **Redundant Endpoint Name (OSB/OSBBC only)** - Name of the redundant OSB/OSBBC.
  NOTE: This name can not be longer than 15 characters.

- **Virtual Endpoint Name (OSB /OSSBC only)** - The hostname of the virtual OSB/OSSBC. NOTE: This name can not be longer than 15 characters.
- **Endpoint Signaling Type (*)** - Endpoint signaling type: SIP or SIP-Q. Default value is SIP

- **Enable PRI Redundancy (OSB 500i only)** - Whether TDM/PRI redundancy for OSB 500i hardware units should be enabled or not.
  – Is only applicable to OSB 500i with the exception of “BranchSBC” Endpoint Usage mode.
  – Enabling requires enabled redundancy for the respective OSB500i hardware units in the current (“Endpoints”) tab.

  Default is ’Disabled’.

- **County Code (*) (Mandatory with exception of ProxyATA endpoints)** - The remote site’s country code, e.g. 1 for US, 49 for Germany. The CC + AC + LOC is needed for gateways, but also for proxies since this info is used for DNM in survivability mode.

  NOTE: Supported countries can be listed by pressing the "Show list of supported countries" button. If a required country code is not listed you may send a support request to WebCDC. For instructions, see Appendix E, “Request Country Data Support”.

- **Area Code (*)** - The CC + AC + LOC is needed for gateways, but also for proxies since this info is used for DNM in survivability mode.

  IMPORTANT: In case of RA deployments, this field is not mandatory for ProxyATA endpoints!

  IMPORTANT: In case of provisioning Multiple Subscriber Numbers (OSB50i D44), this field is not applicable and is therefore greyed out!

- **Subscriber Code / Local Exchange Code (*)** - WebCDC will automatic download the Local Toll Tables (LTT) via the internet.
  – Make sure the Office Code exists, otherwise the download will fail and generation will stop.
  – Also make sure you have an internet connection, otherwise the automatic generation will also stop because the LTT tables cannot be downloaded.
  – The CC + AC + LOC is needed for gateways, but also for proxies since this info is used for DNM in survivability mode.

  IMPORTANT: In case of RA deployments, this field is not mandatory for ProxyATA endpoints!

  IMPORTANT: In case of provisioning Multiple Subscriber Numbers (OSB50i D44), this field is not applicable and is therefore greyed out!

- **Subscriber DID Extension Range (*)** - When there are multiple DID ranges with the same CountryCode/AreaCode/LocalExchangeCode, use a comma separated list.
  e.g. 100-199,400-499,600-649.

  This field is required with the following exceptions:
  – In case of ProxyATA endpoints, this field is not mandatory.
  – In case of CentralSBC endpoints, this field is not applicable and is therefore greyed out.
  – In case of provisioning Multiple Subscriber Numbers (OSB50i D44), this field is not applicable and is therefore greyed out.

- **Default Home DN (optional field)** - This DN should be from the range of DIDs supported by the endpoint. The Default home DN is used for setting calling party number in certain cases.

  IMPORTANT: This field is not required for Proxy and ProxyATA endpoints!

  IMPORTANT: In case of provisioning Multiple Subscriber Numbers (OSB50i D44), this DN should belong to the private range of the respective site!

- **MSN (Multiple Subscriber Numbers)** - This is an optional field applicable only for BRI point to Multi-Point in OSB 50i.
  – It is a comma separated list of up to ten MSNs (Multiple Subscriber Numbers). For example 5619231000,5613335600,9542342000.
  – The MSN numbers are mapped to private only numbers defined in the Site tab's "Extension ranges" row for the respective site. For that reason, the private only extensions should be defined first (one by one sequentially) in the Site tab's "Extension ranges" row in order to be correlated to the respective MSN entry.

  IMPORTANT: This field is only applicable in case the user selects "OSB50i D44" as "Endpoint Type". In all other cases, it is greyed out!

  IMPORTANT: Fields "Area Code","Subscriber Code/Local Exchange Code" and "Subscriber DID Extension Range" must be empty if MSN is populated!

- **PSTN Provider Name** - Specify the PSTN provider to be used for this Endpoint. This will affect the provisioning of the gateway accordingly.

- **Presubscribed Carrier Code** - In some countries, e.g., Brazil, a presubscribed carrier code needs to be sent to PSTN provider.
- **Port and Line Channel Selection** - With this column one can select the used ports (lines) and the channels of the gateway.

  The following syntax is to be used (an arbitrary amount of blanks is allowed):
  <port1>(<direction1>;<channel selection1>), <port2> (<direction2>;<channel selection2>),...
  where:
  – <portN> = the BRI or PRI interface to be used. This is an index that indicates the line to be used.
  – <directionN> = the direction of the traffic. Possible values are: both, outgoing only, incoming only. Outgoing means towards the PSTN and incoming means from the PSTN.
  – <channel selectionN> = The indices of the channels to be used. This is a semi colon separated list and also ranges are allowed (e.g. 1;5;10-12 means channels 1, 5 and from 10 to 12)

  Important remarks:
  – if the total cell contents is left empty then ALL ports, BOTH directions and ALL channels are assumed to be taken
  – if the direction field is left empty then BOTH directions are assumed
  – if the channel selection is left empty then ALL channels are assumed

  Example: 1 (out;3), 3(2-5;10), 6, 10 (4;8;9)
  – Line 1 is for outgoing traffic and channel 3 is used
  – Line3 is for both directions traffic and channels 2 till 5 and channel 10 are used
  – Line 6 is has all channels for both directions
  – Line 10 has channels 4, 8 and 9 for both directions
- **Signaling Endpoint IP (*)** - The signaling IP address (SIP) to be used for the gateway or proxy.

  NOTE: For OpenScape Branches and Mediatrix systems, the Signaling IP is also the Administration IP
- **Signaling Endpoint Netmask (*)** - The netmask of the signaling network used for the gateway or proxy.
- **Signaling Endpoint Default GW (*)** - The default gateway of the signaling network used for the gateway or proxy.
- **Virtual IP Address for LAN interface (OSB/OSSBC only)** - The Virtual IP Address of the OSB/OSSBC redundancy pair.
- **Virtual IP Address for WAN interface (SBC only)** - The Virtual IP Address (on the WAN side) of the SBC redundancy pair.
- **Administration LAN IP** - The system management IP address of the RG 8700 gateway.
- **Administration LAN Netmask** - The netmask of the administration network used for the RG8700 gateway.
- **Administration Default GW** - The default gateway of the administration network used for the RG8700 gateway.
- **Voice LAN IP** - The IP address to be used for the voice media streams (RTP) for the RG 8700.
- **Voice LAN Netmask** - The netmask of the voice network used for the RG8700 gateway.
- **Voice LAN Default GW** -The default gateway of the voice network used for the RG8700 gateway.
- **WAN IP 1 (Mandatory for SBC)** - This is a mandatory field for all type of SBCs.
- **WAN Netmask 1 (Mandatory for SBC)** - This is a mandatory field for all type of SBCs.
- **WAN IP 2 (Mandatory for SBC)** - Set it only for Central SBCs when used with collocated or L2 separated OSVs
- **WAN Netmask 2 (Mandatory for SBC)** - Set it only for Central SBCs when used with collocated or L2 separated OSVs

- **WAN Default GW (Mandatory for SBC)** - This is a mandatory field for all type of SBCs.
- **External Firewall** - The external firewall IP address, used to configure single armed endpoints with Central SBC or Circuit ATC usage.
- **SIP Provider** -
- **SSP Address [IP/FQDN]** - The IP or FQDN address of the SSP (SIP Service Provider) if you have at least one SSP to support SIP Trunking. Only relevant for endpoint Usage 'CentralSBC', 'SBCProxy', and 'BranchSBC'.
- **SSP SIP Port** -
- **SSP SIP Transport** -
- **Inventory** - This is used to prepare the data ahead of the physical installation of the OSB/OSSBC and to facilitate the Simplified installation process. This data is populated in the OSB/OSSBC CSV file.
- **Software Version** - The software version of the installed OSB.
  For further information please refer to *OpenScape Branch V8, Installation Guide*.
- **Serial Number** - The serial number of the installed hardware unit.

  NOTE: This field is not used during WebCDC Config Files generation. It is only used for tracking purposes of the current project's endpoint hardware units.

  For further information refer to *OpenScape Branch, Installation Guide*.

4.6 Country Data Tab

This tab is only displayed if the option **Customize Country Data** in the **Endpoints** tab is enabled. To do so you need to open the **Endpoints** tab, click **Edit** and click on **Show list of supported countries**. On the window that is displayed mark the **Customize Country Data** checkbox and click **Close**.

IMPORTANT: Proceed with caution. Any modification on this tab, will affect the current project and any clone project you create. Any other project that will be based on the export of the current project will be affected as well. It is strongly suggested that you reset country data to their default values once a WebCDC database update is provided.

To cancel editing the country data and use the default values press the **Use default country data** button.

NOTE: This action will hide the **Country Data** tab.

To reset country data to default values but continue to edit country data press the **Reset** button.

- **Country Code (*)** - Country code, e.g. "1" for US or "49" for Germany.
- **Country Name (*)** - Name of the country.
- **International Prefix (*)** - Prefix used to dial international calls.
- **National Prefix (*)** - Prefix used to make national calls.
- **Dial Pattern (*)** - The Dialing pattern used to make local calls (e.g. SUB for subscriber, NAT for National).
- **Mobile Numbers** - Comma separated list of prefixes for dialing Mobile numbers.
- **Emergency Numbers (*)** - Comma separated list of emergency numbers.
- **Invalid Numbers** - Comma separated list of invalid numbers or prefixes used for dialing invalid numbers
- **Special Codes** - Comma separated list to specify any country specific special codes (the next two columns can be used to set the length and trafficType of special codes).
- **Special Codes (Max Len)** - Comma separated list to specify maximum length of corresponding special numbers
- **Special Codes NOA** - Comma separated list to specify the NOA value of corresponding special code which is used to set appropriate traffic type (Mobile, International, Etc).
- **Special Numbers** - Comma separated list to specify country specific special numbers or prefixes for special numbers like toll-free numbers, premium numbers, directory numbers, etc. The next two columns are used to specify maximum length and trafficTypes of special numbers.
- **Special Numbers Max Length** - Comma separated list for specifying maximum length of corresponding special number.
- **Special Numbers Traffic Type** - Comma separated list for specifying traffic type (Mobile, Toll Free, Premium Rate, etc) of corresponding special number. Please see already provisioned data for other countries for sample.
- **Language** -
- **Country ISO Code** - Codes for the representation of names of countries and their subdivisions (ISO 3166-1 alpha-2).

- **DLS TimezoneDay FormatValue** - This value shows the date format used in the country. Possible values: 000,001,or 002:
  – '000' means dd.mm.yy
  – ’001' means yy-mm-dd
  – '002' means mm/dd/yy
- **DLS TimezoneDaylighZoneValue** - Daylight Saving Zone. Possible values:
  – Not set (000), Australia 2007 (ACT, South Australia, Tasmania, Victoria) (001), Australien 2007 (New South Wales) (002), Australien (Western Australia) (003)
  – Australien 2008+ (ACT, New South Wales, South Australia, Tasmania, Victoria) (004), Brasilia (005), Canada (006), Canada (Newfoundland) (007)
  – Europe (PT, UK) (008), Europe (AT, BE, HR, DK, FR, DE, HU, IT, LU, NL, NO, PL, SK, ES, SE, CH) (009), Europe (FI) (010), Mexico (011), United States (012)
  – New Zealand (013), New Zealand (Chatham) (014)
- **DLSMiscCountryTemplateValue** - Country where the workpoint is operated. This parameter corresponds to the country setting on the device.
- **DLS MiscLanguageTemplateValue** - Language to be used for local applications.
- **DLS MiscUsbKeybTemplateValue** - Language-specific keyboard layout when using an external USB keyboard. Possible options: English (032), German (009), French (008), Spanish (025), American (033), Italian(014).
- **DLS TimeFormat** - Time Format. Possible options: 12 hour (000) or 24 hour (001).
- **DLS SntpTzOffset** - Time offset from UTC (Coordinated Universal Time) in minutes. Value range: -720 to 720.
- **OSB Country** - This is the ISO country code used in OSB configuration.
- **OSB Country GUI** -
- **RG8700 Country** -
- **UC timezone** -
- **UC language** -
- **Mediatrix Telif** -
- **Contact Person** -
- **Full Country Name** -
- **Carrier Code Length** - Name of the country.
- **Outgoing Sipq Nature of Address** - This field is used to determine the Nature Of Address of the outgoing called party. If the outgoing called party is to be sent with NOA of Unknown (as in USA), then set the value to 1.

4.7 Subscribers Tab

Entering data in this tab is optional. Entering a subscriber in this tab will add a new subscriber or modify a default generated subscriber. Any data entered in this tab overwrites the automatically generated data created by the option **Make default subscribers for the extension range** in the **Site** tab.

NOTE: Default subscribers are NOT shown in this tab.

The subscriber will have a WebCDC automatically assigned OSV Feature profile if a user is added to this tab. If no features are enabled, or only Call Pickup (CPU) is active, then the user will get 'FP_std' assigned as feature profile. (FP_std has CPU enabled, so its OK for CPU users).

When more than one feature is activated in this tab, then the assignment is according to the feature profile with the "highest priority".

The relative priorities are shown below:

1. CPU
2. Mobility
3. MLHG
4. UC

Mixing of Feature Profiles is not currently supported (the matrix becomes too complex). Possible manual interaction on OSV is needed in these cases. See Appendix A.2, "Feature Profiles" for details of the FPs.

- **First Name (*)** - This is the first name of the provisioned subscriber.
  - In case a UC account needs to be also created for the provisioned subscriber then at least one of the fields "First Name" and "Last Name" is mandatory.
  - The concatenation of "First Name" and "Last Name" cannot be longer than 20 characters or it will be truncated during generation. (if both are provided then a 'space' character will also be added between them when composing the display name)
- **Last Name (*)** - This is the last name of the provisioned subscriber.
  - In case a UC account needs to be also created for the provisioned subscriber then at least one of the fields "First Name" and "Last Name" is mandatory.
  - The concatenation of "First Name" and "Last Name" cannot be longer than 20 characters or it will be truncated during generation. (if both are provided then a 'space' character will also be added between them when composing the display name)
- **Site Name (*)** - This is the Site Name (as defined in the 'Site' tab) which the provisioned subscriber belongs to.
- **Extension** - The Extension number should be in the range entered in the "Extension Range" field in either the Endpoints or Site tabs.
- **Subscriber Dialing Permissions (*)** - Important Note: This field is only mandatory for RA deployments in case the respective subscriber is assigned a CDC predefined Feature Profile! More specifically, in this case it is the responsibility of the user to configure Dialing Permissions for this subscriber according to his assigned Feature Profile.
- **Directory Number (*)** - This is mandatory field. Either the E.164 numbers can be entered which are in the range given on the Endpoint tab or Fully Qualified Private numbers can be entered which are in the range given on the Site tab.

- **External Caller ID** - This column represents the calling DN sent out when a call is made from a subscriber. Generally this is used to represent an Attendant in the office which takes the calls and transfers the calls to the appropriate person in the office.
  When the External Caller ID is left empty the value is taken the same as the Direct Inward Dialing Number.
- **Device Type** -
- **Analog Adapter Port** - Optional field which defines the port number for the subscriber DN on a ATA. Port numbering starts from port 1.

  If no data is provided in this column the first available port of the ATA will be assigned to the subscriber.
- **Analog Adapter Fax (T.38)** - Optional field which enables FXS interface T.38 fax negotiation for the subscriber DN on an ATA.

  NOTE: Default value is “no”.
- **MLHG Group** - Subscribers belonging to the same Hunt Group (MLHG) must have the same Group ID entered. A subscriber can be part of multiple hunt groups, therefore, this can be a comma separated list. A comma separated list may be used here. The pilot can be also be DID.
- **MLHG Type (only set for pilot number)** - Hunting algorithm for the MLHG. Is assigned to the pilot number of the MLHG. Required for the pilot number of the hunt group.
  – Linear
  – Circular
  – UCD
  – Manual
  – Parallel - CPU (Call Pickup) Model
  – Parallel - SA (Simultaneous Alerting) Model
- **Pickup Group** - Assigned number of the pickup group. Start with 1 and increment by one for each new pickup group. Insert the same number for all the devices in the same pickup group. (must be a decimal number less than 10,000).
- **Openscape Mobile Feature** - Enable/disable OpenScape Mobile Feature. Default value is 'no'.
- **Circuit User** - If enabled the subscriber will be configured as a Circuit user connected via ATC. Default value is 'no'.
- **Phone PIN** - Not yet used.
- **Voicemail** - This field is used to overwrite the 'Default Voice Mail Assignment' in the General Tab. If the field is left empty then the value from 'Default Voice Mail Assignment' will be used.
- **Faxmail** - Default value for Xpressions FaxMail is “No”.If Faxmail is set to “Yes” while Voicemail is set to “No”, then email address should be provided and following should be set:
  – Feature Profile is empty
  – Device Type should be empty
- **Remote Subscriber** - Set it to 'yes' for subscribers behind a central-SBC.
  – The Digest Authentication must be enabled for remote subscribers.
  – Default value is NO.
  – These remote subscribers will then get a separate DLS profile and a new DLS server template where the SIP register and the SIP proxy IP address does NOT point to the OSV, but will point to the WAN IP Address of the Central-SBC.
- **Mobility** - Not yet used.
- **Feature Profile** - Needed only if the customer has defined Feature Profiles.
- **DLS Profile** - By filling up this field you may override the DLS Profile that is automatically assigned by CDC. The user should make sure that the specified DLS profile is accurate.
- **Keyset Use** - Enabled only for devices that support keysets. Default is no keyset use. The following non default values are supported:
  – Primary
  – Phantom

Double Click this cell to Hide/Unhide Keyset columns.

Hints:
- Only OpenStage 15/40/60/80 models can be provisioned as a Primary Line
- Number of Key Line Assignments:
  - OpenStage 15 max 8 Keyset Lines
  - OpenStage 40 max 6 Keyset Lines
  - OpenStage 60 max 8 Keyset Lines
  - OpenStage 80 max 9 Keyset Lines
  - OSC Desktop PE: max 7 Keyset Lines
  - OSC Web Embedded: max 7 Keyset Lines
  - OSC Fusion: max 7 Keyset Lines
  - OpenScape Desk Phone IP 55G: max 8 Keyset Lines
  - OpenScape Desk Phone IP 35G: max 3 Keyset Lines
  - OpenScape Desk Phone IP 35G Eco: max 3 Keyset Lines
  - OpenScape Desk Phone CP200: max 4 Keyset Lines
  - OpenScape Desk Phone CP400: max 16 Keyset Lines
  - OpenScape Desk Phone CP600: max 12 Keyset Lines
- SideCar Module can have up to 12 Keyset Line Assignments
- Keyset Primary Line can assign Line Appearances while a Phantom Line can only be configured as a Line Appearance.
- Keyset Primary Line DN/Extension should always be provisioned at the Keyset Line 1.
- Line Appearances can be assigned either with Extension or DID (where possible) as well.

- **Line Key Label Digits** - This is the number of digits of a Line Appearance DN at Primary Line's Phone Display Note: If the field is left empty then WebCDC autofills it using the number of digits of the Primary Line's Extension

- **Line Keys Order** - This is the Keys' Assignment order in Primary Line's Key Layout:
  - Descending Order: Keyset Line 1 is assigned to the lowermost button
  - Ascending Order: Keyset Line 1 is assigned to the upmost button

  NOTE: The default option is Descending order

- **Keyset Module** - This is the sidecar module option and this can only be assigned to Openstage and OpenScape Desk Phone devices. The default option is no.

- **Keyset Line 1...9** - The assigned number.

- **Keyset Module** - Keyset Module: This is the sidecar module option and this can only be assigned at Openstage 15/40/60/80

  NOTE: Double Click cell to Hide/Unhide Keyset columns or use the button above.The default option is no

- **Module Line Keys Order** - Module Line Keys Order: This is the Keys' Assignment order in Primary Line's Module Key Layout.
  - Descending Order: Keyset Line 1 is assigned to the lowermost button
  - Ascending Order: Keyset Line 1 is assigned to the upmost button

  NOTE: The default option is Ascending order.

- **Keyset Line 1...18** - The assigned number.
  NOTE: When editing by clicking the Hide Keyset Columns / Show Keyset Columns button the previous 6 fields can be hidden or shown.

- **Prompt Language** - The language that is used in the announcements played to the subscriber by the Media Server.

  NOTE: WebCDC offers 3 different options for the English language: British English, American English, and English. If the last option (English) is set, WebCDC will automatically change the Prompt Language to British English, except if the Country Code in the Endpoints tab is set to 1 (US), where in this case it will be changed to American English.

- **Device Display Language** - Language used on the OpenStage phone.

- **Windows Login ID** - The configuration data is stored in the Windows roaming profile of the user. This enables the user to access their configuration data through any computer in the network.Furthermore, it is mandatory for all UC Users in order to utilize the SSO functionality.

- **Email** - It is used in the Xpressions user configuration file as well as a possible option for the UC Instant messaging address on UC tab.
- **UC User** - Yes / No
- **First Speed Dial List** - The subscriber's primary speed dial list. If left blank, then the site's primary default list (see Site) is used.
- **Second Speed Dial List** - The subscriber's secondary speed dial list. If left blank, then the site's secondary default list (see Site) is used.
- **Digest Password** - Password used for digest authentication of the subscriber
- **Business Authorization Code** - Authorization code for business calls. Authorization codes have to be unique within a business group.
- **Private Authorization Code** - Authorization code for private calls. Authorization codes have to be unique within a business group.

4.8 Feature Profiles Tab

This tab permits the operator to view the definitions of the current pre-defined Feature Profiles. Completely new user defined Feature Profiles may also be created and modified by adding a new row, setting it a new Feature Profile Name and also setting the respective columns with the desired settings. The specific FP settings are too numerous to list here. Please see the actual WebCDC tab where the Feature Profiles and their assigned features are clearly displayed in a 2 dimensional matrix.

NOTE: With regard to custom FPs the WebCDC does not automatically check Feature interoperability. That is up to the user to verify this using the FIM or some other tool. There are so many interactions it is nearly impossible for WebCDC to check this.

4.9 Analog Adapters Tab

This tab is used to enter information on the analog adapters that may be present in the deployment. It allows the analog adapters to be associated with the Site Name (as specified on the **Site** tab).

- **Analog Adapter Name (*)** - This name is used as hostname of the analog device.
- **Site Name (*)** - A drop down list of the sites as found in the Site tab.
- **Analog Adapter Type (*)** - Select which analog adapter from the drop down below.
  For the LP devices (for the long lines) the normal Mediatrix devices can be used, as there is no difference for WebCDC concerning the configuration.
- (i.e. Mediatrix 4104 and Mediatrix S724 can be used instead of Mediatrix 41LP04 and Mediatrix S7LP24 respectively.).
- **Analog Adapter Signaling Type (DHCP or Static)** - There are two available options, Static and DHCP (Dynamic).
  – If Static type is selected then the User should fill the IP,Netmask and default GW values for the specific ATA device.
  – If left empty, the Static will be consider as the default value.
- **Analog Adapter Signaling IP Address (*)** - Important Note: This field is mandatory only if “Static or DHCP” is set to Static!
- **Analog Adapter Signaling Netmask (*)** - Important Note: This field is mandatory only if “Static or DHCP” is set to Static!
- **Analog Adapter Signaling Default GW (*)** - Important Note: This field is mandatory only if “Static or DHCP” is set to Static!
- **Serial Number** - The serial number of the installed hardware unit.
  NOTE: This field is not used during WebCDC Config Files generation. It is only used for tracking purposes of the current project's analog adapters hardware units.

4.10 OSB 50i - 500i Tab

This tab is used to enter device information only for OpenScape Branch 50i FXO/BRI/PRI. Starting with V7 the OSB 500i FXO/BRI/PRI is also supported here.

- **OpenScape Branch Endpoint Name (*)** - A PSTN gateway or proxy name to be used in the specific branch office indicated under the Endpoints tab.
- **Trunk Group Name (*)** - User assigned named for the port's trunk group.To configure multiple trunk groups for an OSB, insert multiple rows using the same OSB endpoint name.
- **Trunk Type (*)** - Usage of the trunk. Emergency Trunk is used for routing the Emergency traffic only. Normal Trunks are used to route all the normal traffic.
  Important: This field is mandatory for OSEE deployments.
- **PSTN Switch Interface Protocol** - Set the PSTN switch interface protocol for the PRI OSBs. Select one of the T1 switch types for US sites or one of the E1 switch types for non US sites. You may configure different switch interface protocols for each trunk group of the PRI OSBs.
- **T1 CAS Signaling** - Set the CAS Line Signaling type. Set this only for OSBs with PRIs that support T1 CAS.
- **Physical Port (1 to 8)** -
  – For BRI/FXO interface up to 4/8 ports are allowed respectively. For both above interfaces the entire port selection is allowed when associated to a trunk group. Reservation of a port can be performed by using the "X" symbol
  – For PRI interface input values have to either be a range of channels or individual channels separated by comma or "X" symbol when the entire port is used. Numeric values indicate the association of channels for the Trunk Group in a PRI Span connected to this port. E.G. 4-10, 14, 18, 19-24. For PRI up to 23 channels for T1 and 30 for E1 without the D channel. All the channels specified will be enabled while the rest of them will be disabled by default.
- **Default Dest** - The value must be in the DID range. If empty, the Default Home DN of the endpoint is used.

4.11 OSCC Tab

This tab contains OpenScape Contact Center specific parameter settings when used in a Solution. The Add Column button allows addition of multiple call centers (up to 100; limit is 2 when OSEE is deployed).

NOTE: This tab will not be displayed if the **Contact Center version** field on the **Start** tab is set to **No OSCC Server**.

- **Contact Center Group Name** - There is a defaulting naming of the "Contact Center Group Name" that is defined depending on the number of configured "Number Of Contact Centers".

  NOTE: The project must be first saved in order for any new Contact Center Group Names to be listed in the Subscribers table.

- **Contact Center Group Description** - User can specify the Contact Center Group Name just by modifying the corresponding cell. This action automatically updates the Contact Center Group Drop Down Menu at OpenScape Contact Center Subscriber Section.

  e.g. “Customer Service”, “Sales”, “Customer Support”, “Customer Service East”, or “Customer Service West”

- **Call in Public Directory Number(s)** - Multiple entries may be set here via a comma separated list: < DN1 >, < DN2 >, ...

  This is the main Directory Number that is used to call into the Contact Center Group and it must be a DID number. It has Call Forward Unconditional set to Initial MLHG. (If multiple entries are set, then only the first one will be used in the generated CDC_OSCC_Config.txt for the specified Contact Center).

- **Requeue Directory Number** - This is the Directory Number that is used to place the caller into the queue again and it has Call Forward Unconditional set to Music On Hold MLHG. This Directory Number can either be a Fully Qualified Private Number or a Fully Qualified Public Directory Number.

- **MLHG Init Pilot Directory Number** - All the incoming calls to the Contact Center are placed in the Initial MLHG Queue. This directory number can either be a Fully Qualified Private Number or a Fully Qualified Public Directory Number.

  Initial Hunt Directory Number is used to process all incoming calls handled by the OSCC system.

- **MLHG MOH Pilot Directory Number** - All the calls waiting to be serviced by the Contact Center agents are placed in the Music On Hold MLHG Queue.

  This Directory Number can either be a Fully Qualified Private Number or a Fully Qualified Public Directory Number.

- **Closed Announcement Directory Number** - This Directory Number is used to send the incoming calls during the off-hours (i.e. when none of the agents are logged in) to an announcement provided by the Customer’s selected Device. This announcement may be provided by the company explicitly to play a customized announcement. A default announcement is provided if there is no customized announcement. This Directory Number can either be a Fully Qualified Private Number or a Fully Qualified Public Directory Number.

The above data is followed by a data block that requires information on the specific call center's agents and managers. The subscribers listed here must also exist in the **Site** Tab.

- **Subscriber Directory Number** - Use this column to add the Directory Number of a Contact Center member (Manager/Agent). Maximum 1,500 members per group.
- **Manager or Agent** - Use this column to set the type of a Contact Center member.

  NOTE 1: A manager may manage one or more groups.

  NOTE 2: At least one manager must be set per group.
- **Call Center Group** - Use this column to set the group a Contact Center member belongs to.

  NOTE: The project must be first saved in order for any new Contact Center Group Names to be listed in this column.

4.12 EA Groups Tab

The EA Groups tab collects data for the configuration of the OpenScape Voice Executive Assistant (EA) capability. This feature streamlines executive's call handling with the support of one or more assistants. Assistants control and manage calls for executives, providing support with a great degree of flexibility. Several arrangements are supported for up to 2 Assistants serving up to 4 Executives.

- **Executive/Assistant Group Name (*)** - All subscribers that belong to an EA configuration must have the same Group Name assigned. This name can be chosen arbitrarily.
- **Subscriber (Private) Extension (*)** - Reference to the subscriber. Use the Directory Number from the Subscribers tab.
- **Subscriber Site Name** - User specified name for their location/site.
- **Executive/Assistant Configuration (*) (Mandatory when EA Groups)** - Select one of three types:
  – Basic
  – Enhanced
  – Rollover
- **Line Type** - Select one of four types:
  – Primary
  – Query
  – Rollover
  – Private

  This field is only applicable for a Rollover configuration. If the configuration column is empty, the line is treated/defaults as Primary.
- **Function** - Indicate the subscriber’s function (and position) in the EA configuration.
  This is a drop down list containing the following:
  – Assistant1
  – Assistant2
  – Executive1
  – Executive2
  – Executive3
  – Executive4
- **Executive/Assistant Relationship** - Select the applicable EA relationship for the subscriber to one of the other parties in the EA group.

The following button appears on the EA Groups tab.

- **Prefill Executive Assistant arrangement** - Allows some time savings by auto-populating some of the EA Group fields based upon a selection of the arrangement type from a subsequent popup window.

4.13 Speed Dial Lists Tab

This tab provisions information for speed dialing lists.

- **List Name (*)** - List name is a Mandatory field.
  IMPORTANT: If no name is specified and it is the last entry in the grid, then the corresponding entry will not be included in the OSV provisioning. Otherwise, if no name is specified and it is not the last entry in the grid, then Config Files generation will stop with a respective error message.
- **Entry No. (*)** - Entry No. Range: 0 to 99999
- **Number to dial (*)** - The telephone number to be dialed.
  Number to dial must be within the following length: 1-30.

4.14 Class of Restriction Tab

NOTE: Fields in this tab are prefilled by WebCDC.

- **Class of Restriction** - The name of the Class of Restriction.
- **Traffic Type 1-25** - A Traffic Type identifies the type of call. e.g. national, international, etc. This is used to set the callType value which is passed to UCE and Services component. Many services, e.g. toll restriction, Auth Code, and Call forwarding restriction make use of the callType returned by XLA.

  Values are:
  – None
  – Office
  – Local
  – Mobile
  – National
  – International
  – Public Operator
  – Toll Free
  – Local Toll
  – Directory Assistance
  – Premium Rate
  – Emergency
  – Canada
  – US Territories
  – Caribbean Bermuda
  – Any other value defined by the user in “Toll and Call Restriction” tab.

  NOTE: “Canada”, “CarribbeanBermuda”, and “USTerritories” traffic types are added to the International class of restriction and are used in dial plans of US sites in order to restrict calls considered as National to Canada, Caribbean and Bermuda and US Pacific Territories area codes.

4.15 Toll and Call Restriction Tab

NOTE: Fields in this tab are prefilled by WebCDC.

- **Toll And Call Restriction Name** - The name of the Toll and Call Restriction.
- **Class of Restriction** - The Class of Restriction as provided by the Class of Restriction tab.
- **Blocked Call List** - A Blocked Call List, which may comprise DNs (Directory Numbers) or partial DNs such as area codes. Those codes may also comprise wild cards representing "any digit".
- **Alternate Class of Restriction** - An Alternate Class of Restriction for both scheduled switchover and manual CoSS (Class of Service Switchover) with access code and PIN.
- **Switchover Duration** - The Switchover Duration parameter determines the duration of a manual switchover. This applies to subscribers only.
- **Day Schedule Name** - Reference to a Day Schedule Name defined in the Time Schedules (advanced) tab.
- **Date Schedule Name** - Reference to a Date Schedule Name defined in the Time Schedules (advanced) tab.

4.16 UC Tab

NOTE: This tab will not be displayed if the **UC Deployment Architecture** field on the **Start** tab is set to **No UC**.

- **Subscriber Directory Number** - Subscriber Directory Number
- **Subscriber First Name** - Subscriber First Name
- **Subscriber Last Name** - Subscriber Last Name
- **OpenScape UC App. Login ID** - The Login ID to be used when generating the domain configuration file for UC.
  – The following characters are not allowed and should be avoided: @ or ; or' as well as spaces.
  – All characters are going to be automatically converted to lower-case during Config Files generation
- **UC Instant Messaging Address -** Use the "Prefill IM address" button or manually type the actual value. Note: When using the prefill button you can select one of the following ways to generate the IM addresses:
  – Use [OpenScape UC App. Login ID]@[IM Server]
  – Use Email Address
- **Password** - UC users email password.
- **PIN** - This is the PIN of the UC user.
  NOTE: Minimum length is 8 digits.
- **Profile** - UC Profile. Double click on the cell to select multiple profiles.
- **SSO Setup** - This field is used to identify whether and how the UC user is configured for SSO. Possible values are:
  – Web client SSO
  – SOAP SSO
  – Both
  – None

  Default value is **None**.
- **Windows Account Name** - This field is used to identify user Windows account name. It is valid only if the SSO Setup has one of the following values: **Both**, **Web ClientSSO**, **SOAP SSO**.It is prefilled based on the following values :
  [Subscriber Tab:Windows Login ID]@[General Tab: Windows Domain ID]

  Example: mSample@HELENA.GR
- **Assigned External Identifier** - This field is used to add Assigned External Identifier for the UC user.

  Default value is **WinPassphrase**
- **Salutation** - Salutation
- **Title** - Title
- **Alias** - Alias
- **Gender** - Gender
- **State** - State
- **Postal Code** - Postal Code
- **City** - City
- **Street** - Street

- **Building Number** - Building Number
- **Room Number** - Room Number
- **Department** - Department
- **Cost Location** - Cost Location
- **Assigned FAX** - Assigned FAX
- **Assigned Mobile** - Assigned Mobile
- **Assigned Home Phone** - Assigned Home Phone

The following buttons also exist on this tab:

- **Prefill UC Subscriber Data**
- **Prefill IM Address**

4.17 Xpressions Tab

NOTE: This tab will not be displayed if the **Xpressions version** field on the **Start** tab is set to **No Xpressions Server.**

- **Subscriber Direcory Number** - Subscriber Directory Number
- **User Name** - User Name
- **Fax** - Fax
- **Preferred Type** - Preferred Type
- **SMTP** - SMTP
- **PIN** - PIN
- **Password** - Password
- **Language** - Language used by the subscriber when accessing Xpressions.
- **Voice Mail User Options** - Voice mail system specific options can be set on user level. These are represented via capital letters. Double click on the cell for more options.
- **Group** - The Xpressions group assigned to the user. Options are:
  – USER
  – Configured site names

  A custom group name can be entered. If this value is empty, the default GROUP value from the General tab will be used.

The following buttons also exist in this tab:

- **Prefill XpressionsSubscriber Data**

4.18 Concierge Tab

The Concierge tab collects data for the configuration of the OpenScape Concierge capability.

NOTE: This tab will not be displayed if the **Concierge version** field on the **Start** tab is set to **No Concierge Server.**

4.18.1 Customer Settings

- **Service Notes -** Hints for the service representative. Example: Please call Mr. X.

4.18.2 Basic Services

- **CLA Password (*)** - Password to access CLA

4.18.3 SNMP Agent Settings

- **Enabled** - Activate SNMP Agent process. The default is “true”.
- **User Name** - User for SNMP notifications. The default value is "snmpuser".
- **Default Trap Destination** - It must be the same as CMP. User can change it if needed. If changed this must be part of the SNMP Trap Receivers list.
- **Notification Port** - Port used for sending SNMP Traps/Notifications (162: default port).
- **Agent Port** - Listener port for SNMP agent (161: default port)
  NOTE: In case of OSEE V9 solutions, port 161 can not be used as SNMP agent port. In this case, the default port is 3161.

4.18.4 Server Configuration

- **Description** - Concierge server description. Example: Located in Cologne room 14.3

4.18.5 Concierge Provider Service

- **Register ID** - ID (alias) of the Concierge endpoint for OSV registration.
- **Loop Number** - This number must be callable to reach the endpoint CPS and must be translated to be routed to Concierge endpoint destination. This number must be defined in the OSV but not assigned to a subscriber.

4.18.6 DDI Lookups

Main Concierge Number

- **Main Pilot Number (*)** - The main number of Concierge. This must be translated to be routed to Concierge endpoint destination. This number must be defined in the OSV but not assigned to a subscriber.
- **Main Call For(*)** - Friendly name for the main number of Concierge. Defaults to "Main".
- **Main Priority(*)** - Priority for the Pilot Number. Defines the servicing of received calls in the queue. The default is "1".

Internal Attendant Number

- **Internal Attendant Pilot Number (*)** - Internal Attendant Number
- **Internal Attendant Speed Dial List (*)** - Speed Dial List for Internal Attendant Number.
- **Internal Attendant Speed Dial Entry (*)** - Speed Dial List Entry that will be created on the OSV for Internal Attendant Number. This entry must not be already defined for the specified Speed Dial List. Example: 79
- **Internal Attendant Call For (*)** - Friendly name of Internal Attendant Number.
- **Internal Attendant Priority(*)** - Priority for the Pilot Number defining the servicing of received calls in the queue.

CFNR Number

- **CFNR Pilot Number (*)** - Target for CFNR of office users. Format: e164 number
- **CFNR Call For (*)** - Friendly name of CFNR Number.
- **CFNR Priority (*)** - Priority for the CFNR Pilot Number defining the servicing of received calls in the queue.

CFB Number

- **CFB Pilot Number (*)** - Target for CF Busy of office users. Format: e164 number Example: 49221283741903
- **CFB Call For (*)** - Friendly name of CF Busy Number. Example: busy
- **CFB Priority(*)** - Priority for the CF Busy Pilot Number defining the servicing of received calls in the queue. Example: 2

4.18.7 Request Numbers

- **Request Start Number (*)** - Start of the range of Internal pool of numbers used for transferring a call to the concierge provider service. All the numbers in the range must be part of the DID range of head quarter site. Format: e164 number
  Example: 49221283741810
- **Request End Number (*)** - End of the range of Internal pool of numbers used for transferring a call to the concierge provider service. All the numbers in the range must be part of the DID range of head quarter site. Format: e164 number
  Example: 49221283741819

4.18.8 Callback Numbers

- **Callback Start Number (*)** - Start of the range of pool of callback numbers; used to access parked calls from anywhere. All the numbers in the range must be part of the DID range of head quarter site. Format: e164 number
  Example: 49221283741820
- **Callback End Number (*)** - End of the range of pool of callback numbers; used to access parked calls from anywhere. All the numbers in the range must be part of the DID range of head quarter site. Format: e164 number
  Example: 49221283741829

4.18.9 Fallback MLHG

- **MLHG (*)** - The MLHG Group name of the fallback MLHG used for receiving the calls redirected from the main number and internal number if the concierge endpoint is out of service. This field is a dropdown box that contains all MLHG Groups which are defined in the 'Subscribers' tab and have 'UCD' set as Pilot hunt type (MLHG Type), since this is a requirement for the Concierge fallback MLHG.

  Example: Concierge Fallback

  IMPORTANT: All potential subscribers for the Concierge working place should be members of this MLHG.

4.18.10 SMTP Settings

- **SMTP Host (*)** - SMTP Server Host Name / IP Address. Concierge GUI is able to send "alarm" mails via SMTP. This is the hostname/IP address of the mail server of the customer. Example: smtp.1und1.de
- **SMTP Port (*)** - SMTP Server Port. Example: 25
- **SMTP Sender Email (*)** - Sender Email Address for all Attendants to send an email to internal contacts. Example: attendant@unify.com

4.18.11 Concierge User Accounts

- **Last Name (*)** - Last name of the Concierge User. Example: Mustermann
- **First Name (*)** - First name of the Concierge User. Example: Uwe
- **Title** - Title of the Concierge User. Example: Dr.
- **Salutation** - Salutation for the Concierge User. Example: Mr.
- **Comment**
- **Personal Line (*)** - This number must be routed to the Concierge Provider Service. This number must be defined in the OSV but not assigned to a subscriber. Format: e164 number

4.19 Breakout Endpoints Tab

NOTE: This tab is only displayed when the **Breakout strategy** field on the **General** tab is set to **Customized.**

A breakout endpoint is an endpoint where traffic enters the PSTN network. Managing the breakout endpoints for all the sites within the deployment is done via a 'Breakout Matrix' concept. The default population of the Breakout Matrix is according to the settings **Central Gateway** and **Backup Gateway for Local Gateway** in the **Site** tab. This tab allows the breakout configuration to be modified so that the parameters **Central Gateway** and **Backup Gateway for Local Gateway** in the **Site** tab no longer apply. The can be useful to allow users at a site to breakout to the PSTN via a more cost effective breakout gateway located in another site.

The Breakout Matrix permits modifications from the normal behavior of support for "only local breakout" or "tail end hop off" configurations. Leaving the matrix completely empty is the normal configuration where no backup gateways are present and the breakout always happens locally in the site itself.

The Breakout Matrix is a two dimensional matrix and is organized by columns representing each Site. For each Site designated by a **Site Name** it is possible to designate in successive horizontal rows the separate breakout endpoints for Local, National, and International traffic. Additionally, a Backup Endpoint may be supplied.

For each **Site Name** (column) the following Breakout Endpoint information may be managed:

- **Site Name** -
- **Breakout Endpoint** - This is the endpoint where traffic will go into the PSTN network. The cells below in the column indicate which traffic will come from the other site or from a country. If a whole country needs to break out then enter the country code instead of the site name.
- **Enter Site Name that will use the Breakout Endpoint for Local traffic** -
- **Enter Site Name that will use the Breakout Endpoint for National traffic** -
- **Enter Site Name that will use the Breakout Endpoint for International traffic** -
- **Enter Endpoint Name that will be used as Backup Endpoint** -

4.20 Continuous Tracing Tab

NOTE: This tab is only displayed when the **Enable data collection for Continuous Tracing** field on the **General** tab is set to **yes**.

4.20.1 OpenScape Voice Manager [OSV-TM] Parameters

For OSEE V9 projects this area is modified to only display the fields needed.

- Details (Standard Solution/vApp)
- Details (OSEE V9)

4.20.1.1 Details (Standard Solution/vApp)

- **OSV-TM IP Address** - The IP Address of the OSV-TM
- **Trace File Transfer User ID** - SFTP username for the OSV-TM
- **Trace File Transfer Password** - SFTP password for the OSV-TM
- **Destination drive for OSVTM Software** - Where the OSV-TM software resides. Default is “C”.
- **Destination drive for trace files** - Where the trace data is stored. Default is “C”.
  IMPORTANT: It is recommended that the software and trace files are stored on separate drives.
- **Database path (optional)** - Default is [OSVTM Software Drive]\MTC\Config.
  Example: C:\MTC\Config
- **Database partitioning** - Database partitioning: [weekly|daily|none]. Default is weekly. This means that separate DB catalogues exist of the parsed data per input.
- **Days to keep trace files** - Default is 7 days.
- **Enable FADE Remote Web Access** - Yes/No. Controls whether the user can connect to the Trace Manager from a remote place via the Web.

4.20.1.2 Details (OSEE V9)

- **Database partitioning** - Database partitioning: [weekly|daily|none]. Default is weekly. This means that separate DB catalogues exist of the parsed data per input.
- **Days to keep trace files** - Default is 7 days.
- **Enable FADE Remote Web Access** - Yes/No. Controls whether the user can connect to the Trace Manager from a remote place via the Web.

4.20.2 OpenScape Voice Parameters

- **Enable Continuous Tracing on OSV** - Activate/Deactivate tracing for the OSV.
- **Trace Filter** -
  – 24_7_min = set flags for a minimum continuous trace
  – 24_7_extern = set flags for an external message trace.
  – 24_7 = set all flags for a continuous trace

  The default is 24_7_min.

4.20.3 OpenScape Branch

- **Enable Continuous Tracing on OSB/SBC** - Activate/Deactivate tracing for the OSB/OSSBC.
- **File Size Threshold [Kbytes]** - Trace files are sent to the OSVTM server when on the following conditions occurs:
  – The file size reached the File Size threshold (valid range is 1 to 1024 Kbytes).
  – The Time Interval has elapsed (valid range is 1 to 60 minutes).

  The polling time is about 10 seconds so file sizes may vary if the amount of log data is increasing too fast.

  Default value: 1024 Kbytes.
- **Time Interval Threshold [Minutes]** - Trace files are sent to the OSVTM server when on the following conditions occurs:
  – The file size reached the File Size threshold (valid range is 1 to 1024KB).
  – The Time Interval has elapsed (valid range is 1 to 60 minutes).

  The polling time is about 10 seconds so file sizes may vary if the amount of log data is increasing too fast.

  Default value: 5 minutes.
- **SIP/Q931 Traces** - Enable/Disable SIP/Q931 tracing.
- **MGCP Traces** - Enable/Disable MGCP tracing.

4.20.4 UC Parameters

- **Enable Continuous Tracing on UC** - Activate/Deactivate tracing for UC.
- **Send every [Minutes]** - Sets the frequency of when traces files are sent to the OSVTM. The field can range from 5 to 1440 minutes. Default is 5 minutes.
- **Save the last [Minutes]** - This field allows trace files to be saved on the CMP during a transmission failure and re-transmitted when possible. Valid range is 5 to 1440 minutes. Default is 60 minutes.

4.20.5 Xpressions Parameters

- **Enable Continuous Tracing on Xpressions** - Activate/deactivate continuous tracing for Xpressions.

4.21 vApp Tab

This single tab is used for configuring the information and producing the **vApp.iso** image file for an OpenScape deployment (Standard Solution that runs as a Virtual Appliance). The tab has many fields, but it supports an **Assign Default Values** button that provides default values to all but a few fields. The key exceptions being some Netmask and Default Gateway assignments.

NOTE: This tab is only displayed when the **Deployment Architecture** field on the **Start** tab is set to either **Standard Solution** or **vApp or OpenScape Enterprise Express**.

The **Assign Default Values** button auto-fills the majority of the fields in the **vApp** tab with default values. However timezone field values need to be selected manually.

- **Domain Name** -

4.21.1 Common Config data for OS UC Application server

- **OS UC Application administrator password** - OS UC Application administrator password
- **OS UC Operating System Root Password** - OS UC Operating System Root Password
- **Unique ID for the OS UC Application server (must not be the host name)** - Unique ID for the OS UC Application server
- **Database admin password** - Database admin password

4.21.2 OS UC Backend

- **OS UC Backend Displayname** - OS UC Back End Displayname
- **OS UC Back End FQDN** - OS UC Back End FQDN
- **OS UC Back End IP** - The value for this parameter will be imported once it's calculated in the Basic tabs during (successful) generation of the configuration files.
- **OS UC Back End Netmask** - OS UC Back End Netmask
- **OS UC Back End Default Gateway** - OS UC Back End Default Gateway
- **OS UC Back End Timezone** - OS UC Back End Timezone

4.21.3 OS UC Frontend

- **First OS UC Application Front End Displayname** - If this field is empty, then the "First OS UC Application Front End" section will not be included in the vApp XML file.
- **First OS UC Application Front End FQDN** - First OS UC Application Front End FQDN.
- **First OS UC Application Front End IP address** - The value of this parameter will be imported once it's calculated in the Basic tabs during (successful) generation of the configuration files.
- **First OS UC Application Front End IP Netmask** - First OS UC Application Front End IP Netmask
- **First OS UC Application Front End default gateway** - First OS UC Application Front End default gateway
- **First OS UC Application Front End Timezone** - OS UC Back End Timezone

- **Second OS UC Application Front End Displayname** - If this field is empty then the “Second OS UC Application Front End” section will not be included in the vApp XML file.
- **Second OS UC Application Front End FQDN** - Second OS UC Application Front End FQDN.
- **Second OS UC Application Front End IP address**
- **Second OS UC Application Front End IP Netmask** - Second OS UC Application Front End IP Netmask
- **Second OS UC Application Front End default gateway** - Second OS UC Application Front End default gateway
- **Second OS UC Application Front End Timezone** - Second OS UC Application Front End timezone
- **Third OS UC Application Front End Displayname** - If this field is empty then the “Fourth OS UC Application Front End” section will not be included in the vApp XML file.
- **Third OS UC Application Front End FQDN** - Third OS UC Application Front End FQDN.
- **Third OS UC Application Front End IP address** - Third OS UC Application Front End IP address
- **Third OS UC Application Front End IP Netmask** - Third OS UC Application Front End IP Netmask
- **Third OS UC Application Front End default gateway** - Third OS UC Application Front End default gateway
- **Third OS UC Application Front End Timezone** - Third OS UC Application Front End timezone
- **Fourth OS UC Application Front End Displayname** - If this field is empty then the “Fourth OS UC Application Front End” section will not be included in the vApp XML file.
- **Fourth OS UC Application Front End FQDN** - Fourth OS UC Application Front End IP FQDN
- **Fourth OS UC Application Front End IP address** - Fourth OS UC Application Front End IP address
- **Fourth OS UC Application Front End IP Netmask** - Fourth OS UC Application Front End IP Netmask
- **Fourth OS UC Application Front End default gateway** - Fourth OS UC Application Front End default gateway
- **Fourth OS UC Application Front End Timezone** - Fourth OS UC Application Front End timezone

4.21.4 OS UC Mediaserver

- **First Media server display name (e.g. Media Server 1)** - This is a key field for the “First Media Server” section. Fill in this field if you want this section to be included in the vApp XML file.
- **First Media server host name** - First Media server host name
- **First Media server IP address** - This field is read-only!
  The value for this parameter will be imported once it’s calculated in the Basic tabs during (successful) Generation of the Configuration Files.
- **First Media server Netmask** - First Media server Netmask
- **First Media server default gateway** - First Media server default gateway
- **First Media server Timezone -** First Media server timezone
- **First Media server SIP listen port -** First Media server SIP listen port
- **First Media server MGCP listen port** - First Media server MGCP listen port

- **Second Media server display name (e.g. Media Server 2)** - This is a key field for the “Second Media Server” section.
  Fill in this field if you want this section to be included in the vApp XML file.
- **Second Media server host name** - Second Media server host name
- **Second Media server IP address** - This field is read-only!
  The value for this parameter will be imported once it’s calculated in the Basic tabs during (successful) Generation of the Configuration Files.
- **Second Media server Netmask** - Second Media server Netmask
- **Second Media server default gateway** - Second Media server default gateway
- **Second Media server Timezone** - Second Media server timezone
- **Second Media server SIP listen port** - Second Media server SIP listen port
- **Second Media server MGCP listen port** - Second Media server MGCP listen port
- **Third Media server display name (e.g. Media Server 3)** - This is a key field for the “Third Media Server” section.
  Fill in this field if you want this section to be included in the vApp XML file.
- **Third Media server host name** - Third Media server host name
- **Third Media server IP address** - This field is read-only!
  The value for this parameter will be imported once it’s calculated in the Basic tabs during (successful) Generation of the Configuration Files.
- **ThirdMedia server Netmask** - Third Media server Netmask
- **Third Media server default gateway** - Third Media server default gateway
- **Third Media server Timezone** - Third Media server timezone
- **Third Media server SIP listen port** - Third Media server SIP listen port
- **Third Media server MGCP listen port** - Third Media server MGCP listen port
- **Fourth Media server display name (e.g. Media Server 4)** - This is a key field for the “Fourth Media Server” section.
  Fill in this field if you want this section to be included in the vApp XML file.
- **Fourth Media server host name** - Fourth Media server host name
- **Fourth Media server IP address** - This field is read-only!
  The value for this parameter will be imported once it’s calculated in the Basic tabs during (successful) Generation of the Configuration Files.
- **Fourth Media server Netmask** - Fourth Media server Netmask
- **Fourth Media server default gateway** - Fourth Media server default gateway
- **Fourth Media server Timezone** - Fourth Media server timezone
- **Fourth Media server SIP listen port** - Fourth Media server SIP listen port

4.21.5 OpenFire

- **OpenFire server host name** - OpenFire server host name
- **OpenFire server IP address** - If this field is empty, then the “Instant Messaging Server” field’s value as defined in the IP tab, will be used.
- **OpenFire server Netmask** - OpenFire server Netmask
- **OpenFire server default gateway** - OpenFire server default gateway
- **OpenFire Timezone** - OpenFire server timezone

4.21.6 Name Server

- **First name server IP address (standard port used)** - This field is read-only!
  The value for this parameter will be imported once it’s calculated in the Basic tabs during (successful) Generation of the Configuration Files.
- **Search domain 1** - This field is read-only!
  The value for this parameter will be imported once it’s calculated in the Basic tabs during (successful) Generation of the Configuration Files.
- **Second name server IP address (standard port used)** - This field is read-only!
  The value for this parameter will be imported once it’s calculated in the Basic tabs during (successful) Generation of the Configuration Files.
- **Search domain 2** - search domain 2

4.21.7 NTP Server

- **First NTP server IP address** - This field is read-only!
  The value for this parameter will be imported once it’s calculated in the Basic tabs during (successful) Generation of the Configuration Files.
- **First NTP server port** - First NTP server port
- **First NTP server host name** - First NTP server host name
- **Second NTP server IP address** - This field is read-only!
  The value for this parameter will be imported once it’s calculated in the Basic tabs during (successful) Generation of the Configuration Files.
- **Second NTP server port** - Second NTP server port

4.21.8 DLS data

- **DLS server IP address** - This field is read-only!
  The value for this parameter will be imported once it’s calculated in the Basic tabs during (successful) Generation of the Configuration Files.
- **DLS server port** - DLS server port
- **DLS server host name** - DLS server host name
- **DLS server User id** - DLS server User id
- **DLS server password** - DLS server password

4.21.9 CDR server

- **CDR server host name** - The host name of the CDR server.

4.21.10 Continuous Tracing (a post-install task)

- **Continuous Tracing server host name** - Continuous Tracing server host name

4.21.11 Survival Authority

- **Survival Authority IP address** - This field is read-only!
  The value for this parameter will be imported once it's calculated in the Basic tabs during (successful) Generation of the Configuration Files.
- **FQDN** - FQDN

4.21.12 OSVoice

- **Mgt subnet beginning IP** - (a)
- **NetMask for Mgt subnet** - (a)
- **Signaling subnet beginning IP** - (a)
- **NetMask for Signaling subnet** - (a)
- **Billing subnet beginning IP** - (a)
- **NetMask for Billing subnet** - (a)
- **OSV Node 1 Name** - (a)
- **OSV Node 1 IP** - (a)
- **OSV Node 1 GW** - (a)
- **OSV Node 1 Host Name** - OSV Node 1 host name
- **OSV Node1 Admin IP** - (a)
- **OSV Node 1 Admin Host Name** - OSV Node 1 Admin host name
- **OSV Node1 Link Status Monitor IP** - (a)
- **OSV Node1 Link Status Monitor Host Name** - OSV Node 1 Link Status Monitor host name
- **OSV Node 1 Billing IP** - (a)
- **OSV Node 1 Billing Host Name** - OSV Node 1 Billing host name
- **OSV Node 1 Cross Channel IP** - (a)
- **OSV Node 1 Cross Channel Host Name** - OSV Node 1 Cross Channel host name
- **OSV Node 1 Sip IP** - (a)
- **OSV Node 1Sip Host Name** - OSV Node 1 Sip host name
- **OSV Node 1 Sip MTLS IP** - OSV Node 1 Sip MTLS IP
- **OSV Node 1 Sip MTLS Host Name** - OSV Node 1 Sip MTLS host name
- **OSV Node 1 MGCP IP** - (a)
- **OSV Node 1 MGCP IP Host Name** - OSV Node 1 MGCP host name
- **OSV Node 1 CSTA IP** - (a)

- **OSV Node 1 CSTA IP Host Name** - OSV Node 1 CSTA IP host name
- **OSV Node 2 Name** - (a)
- **OSV Node 2 IP** - (a)
- **OSV Node 2 GW** - (a)
- **OSV Node 2 Host Name** - OSV Node 2 host name
- **OSV Node 2 Admin IP** - (a)
- **OSV Node 2 Admin Host Name** - OSV Node 2 Admin host name
- **OSV Node 2 Link Status Monitor IP** - (a)
- **OSV Node 2 Link Status Monitor Host Name** - OSV Node 2 Link Status Monitor host name
- **OSV Node 2 Billing IP** - (a)
- **OSV Node 2 Billing Host Name** - OSV Node 2 Billing host name
- **OSV Node 2 Cross Channel IP** - (a)
- **OSV Node 2 Cross Channel Host Name** - OSV Node 2 Cross Channel host name
- **OSV Node 2 SIP IP** - (a)
- **OSV Node 2 SIP Host Name** - OSV Node 2 Sip host name
- **OSV Node 2 SIP MTLS IP** - (a)
- **OSV Node 2 SIP MTLS Host Name** - OSV Node 2 Sip MTLS host name
- **OSV Node 2 MGCP IP** - (a)
- **OSV Node 2 MGCP Host Name** - OSV Node 2 MGCP host name
- **OSV Node 2 CSTA IP** - (a)
- **OSV Node 2 CSTA IP Host Name** - OSV Node 2 CSTA host name
- **Login for OSV DB** - Login for OSV DB
- **Password for OSV DB** - Password for OSV DB
- **Login for OSV SRX** - Login for OSV SRX account
- **Password for OSV SRX** - Password for OSV SRX account

(a): This field is read-only!
The value for this parameter will be imported once it's calculated in the Basic tabs during (successful) Generation of the Configuration Files.

4.21.13 OSBranch

- **IP of SIP Service Provider (trunk)** - IP of SIP Service Provider (trunk)
- **Port of SIP Service Provider (trunk)** - Port of SIP Service Provider (trunk)
- **FQDN of SIP Service Provider (trunk)** - FQDN of SIP Service Provider (trunk)
- **Transport Type (e.g. TCP)** - Transport Type (e.g. TCP)
- **Output Digits to strip** - Output Digits to strip
- **Output Digits to add** - Output Digits to add
- **Name of trunk profile created by WebCDC** - name of trunk profile created by WebCDC
- **WAN IP** - WAN IP
- **WAN Mask** - WAN Mask

- **WAN Port** - WAN port
- **LAN IP** - LAN IP
- **LAN Mask** - LAN Mask
- **LAN Port** - LAN port

4.22 Feature Codes Tab

This tab is only displayed if the option **Customize Feature Codes** in the **General** tab is enabled. The user may customize the Prefix Access Codes for accessing OSV features.

WebCDC does not perform any validation on the provided feature code data and as a result the user input must be carefully checked first.

IMPORTANT: Proceed with caution. Any modification on this tab, will affect the current project and any clone project you create. Any other project that will be based on the export of the current project will be affected as well.

- **Feature Name** - Descriptive name of the feature.
- **Feature Code** - Prefix access code digits. Value must be unique.
- **Feature Code min length** - Minimum digits to match.
- **Feature Code max length** - Maximum digits to match.
- **Service Code** - Feature destination name. Value must match the pre-defined destinations in OSV.

4.23 Progress Window

This window is used to display the progress of the WebCDC device configuration file(s) generation. Once a generate configuration file command is executed via **Generate Config** button, the WebCDC displays a **Generation choice** window that allows the user to selectively omit certain configuration file types from the generation process that is about to execute if desired / necessary. Clicking the **OK** button on this window continues the configuration generation.

The **Progress window** will then display real-time progress checkpoints during the configuration file generation process which indicate for example which file is currently being generated.

If WebCDC encounters an error during the generation it outputs a message that advises the nature of the problem, e.g. a specific tab, column and row with an incorrect data type. In this case the window provides only a **Stop** button. The user must record / note the error information and then click the **Stop** button. WebCDC will halt the generation at the current failed step. The user should investigate the error, make the necessary correction and may then execute the configuration file(s) generation again.

A successful generation always results in a dialog window that indicates the success status.

5 Individual Tab Details - OSEE V8 to V9 Upgrade

NOTE: Red (*) indications are provided in the tabs for input fields that are mandatory.

5.1 Start Tab

5.1.1 Customer Details

- **Customer -** Shows the customer name.
- **Project -** Shows the project name.
- **Global ONE Reference ID -** This is the unique ID generated by the G1 tool.

5.1.2 Document Details

- **Last Change Made By -** Shows the username of the person who made the last change.
- **Date of Last Change** - Shows when was the last change made to the project.
- **Telephone/E-Mail -** Contact person's details.
- **Document Version** -

5.1.3 Versions

- **Project Type -** Indicates that the project is on "OSEE V8R1 to V9R0 Upgrade" mode.

  While on this mode, the UI is altered to only display the following tabs:
  – Start
  – General
  – IP
  – Endpoints

  The fields on the aforementioned tabs are prefilled with the data contained in the files provided by the user during the "Upgrade OSEEV8 to OSEEV9" process. All data needed by WebCDC in order to generate the necessary configuration files for the upgrade can be found under these tabs.

  NOTE: This field's value is set by default to "OSEE V8R1 to V9R0 Upgrade" while on the upgrade mode, and is not editable.
- **Deployment Architecture (*)** - The deployment architecture of the project.
- **OpenScape Voice version (*)** - The OSV version of the project.
- **OpenScape Branch version (*)** - This field is used for all OSB types: OSB in proxy mode, ProxySBC mode, and BranchSBC mode as well.
- **OpenScape SBC version (*)** - The OpenScape SBC version of the project.

5.2 General Tab

5.2.1 General parameters of the OpenScape Voice system

- **OpenScape Voice Type (*)** - Possible options include:
  – Standard_Duplex
  – Integrated_Simplex
- **Business Group Name (*)** - The business group of the solution in Openscape Voice.
  The following rules apply:
  – Value cannot be longer than 30 characters
  – Allowed characters are :[a-z][A-Z][0-9][_][-] and space
- **SIP transport type** - This is the default signaling transport type setting for the solution. Every device or server will use this transport type. Default value is TCP.
- **Voice Codec 1-6** - Select the codecs to be used in the gateway and DLS scripts.
- **Media Protocol** - The non-SBC components can have as Media Protocol one of the following values:
  – SRTP + RTP
  – RTP
- **SBC: Media Protocol** - The non-SBC components can have as Media Protocol:
  – Pass-thru: the SBC will pass any SDP unchanged, so that the RTP parameters are exchanged endpoint to endpoint.
  – SRTP + RTP
  – RTP
- **SRTP method** - Select here the SRTP encryption method:
  – mikey
  – sdes
  NOTE: in case the SBC media protocol is set to “Pass-Thru”, then the SRTP method does not matter for the central SBC.
- **Packetization time (ms)** - Use this filled to select the packet size in milliseconds to be used in the gateway scripts. The default value is 20 ms.
- **DSCP QOS for SIP/MGCP** - QOS via DSCP (Differentiated Services Code Point).
  – Default for SIP: AF31
  – Default for RTP: EF

  The higher the value, the higher the priority. For example AF41 (34 - 136) means:
  – Assured Forwarding 41
  – 34 is the DSCP value decimal
  – 136 is the DiffServ/TOS value decimal

  Acronyms:
  – EF: Expedited Forwarding
  – BE: Best Effort
  – AF: Assured Forwarding
  – CS: Class Selector
- **DSCP QOS for RTP** - QOS via DSCP (Differentiated Services Code Point).
  – Default for SIP: AF31
  – Default for RTP: EF

  The higher the value, the higher the priority. For example AF41 (34 - 136) means:
  – Assured Forwarding 41
  – 34 is the DSCP value decimal
  – 136 is the DiffServ/TOS value decimal

  Acronyms:
  – EF: Expedited Forwarding
  – BE: Best Effort
  – AF: Assured Forwarding
  – CS: Class Selector

- **Languages used for Announcement** - This field defines the languages supported on the Xpressions server with a priority of the languages in the order they are defined.
  Example: DE_DE, IT_IT, EN_UK, ES_ES, FR_FR. Announcements are played in the following order: German, Italian, UK English, Spanish and French.
  For Site Delta generation the user should add only the languages for the newly defined sites.

  INFO: Double click on the field for more options.
- **UC Languages** - These are the languages that will be used for the announcements. Double click on the field for more options.
  NOTE: The default value is "English".
  NOTE: WebCDC offers 3 different options for the English language: British English, American English, and English. If the last option (English) is set, WebCDC will automatically change the Prompt Language to British English, except if the Country Code in the Endpoints tab is set to 1 (US), where in this case it will be changed to American English.
- **Enable OSMO Feature** - Use this field to enable/disable OpenScape Mobile Subscriber Provisioning.

5.2.2 Headquarters Site

- **Site Name (*)** - For the site name following has to be taken into account:
  – The site name cannot be longer than 10 characters.
  – The site name has to be a valid DNS name, e.g. alphanumeric characters, a minus (-) and a period (.) are allowed.
- **Timezone (*)** - The timezone of the Headquarters site.
- **Default Prompt Language (*)** - The language which is used in the announcements played by the Media Server.

5.2.3 SBC Tracing

- **Enable Continuous Tracing on OSB/SBC** - Activate/deactivate Continuous Tracing for OpenScape Branch (OSB) and OpenScape Session Board Controller (SBC).
- **File Size Threshold [Kbytes]** - The log/trace files are sent to OS-TM server when one of the following conditions occurs:
  – The file size reaches the File size threshold (valid values are between 1 and 1024kb)
  – The Time interval threshold is elapsed (valid values are between 1 and 60 min)
  The polling time is about 10 seconds so file sizes may vary if the amount of log data is increasing too fast.
  NOTE: Default value is 1024 Kbytes.
- **Time Interval Threshold [Minutes]** - The log/trace files are sent to OS-TM server when one of the following conditions occurs:
  – The file size reaches the File size threshold (valid values are between 1 and 1024kb)
  – The Time interval threshold is elapsed (valid values are between 1 and 60 min)
  The polling time is about 10 seconds so file sizes may vary if the amount of log data is increasing too fast.
  NOTE: Default value is 5 minutes.
- **SIP/Q931 Traces** - Use this flag to enable the SIP/Q931 trace capture.
- **MGCP Traces** - Use this flag to enable the MGCP trace capture.

5.3 IP Tab

5.3.1 Network Addresses of Main Servers in Customer's LAN

- **Domain Name (*)** - This is the system's domain name. Usually this is the root domain of the company (e.g. global-ad.net)
  NOTE: The prefix `osv.` is automatically added to the DNS sub-zone of the OSV server.
- **DNS Servers** - A comma separated list can be entered: <ip addr1>, <ip addr2>, ...

  For OSEE Solutions, the OSV server is acting as the master DNS server. The IP of the OSV server can be set from field "OpenScape Voice administration IP (Management)" under the IP tab.

  Recommendation: DNS server in OSV Signaling subnet (or in an non-OSV subnet e.g. For an existing DNS server).
- **NTP Servers** - A comma separated list can be entered: <ip addr1>, <ip addr2>, ...
  Recommendation: NTP server in OSV Admin subnet (or in an non-OSV subnet e.g. For an existing NTP server).
- **SNMP Trap Receivers** - A comma separated list can be entered:
  <ip addr1>:<port1>, <ip addr2>:<port2>, ...

  One or more servers that are part of the customer infrastructure that receives the SNMP traps of the different components of the solution (including CMP, if this is configured as a trap receiver).
- **CSTA Application(s)** - A comma separated list can be entered here:
  <ip addr1>, <ip addr2>.
- **SESAP Server** -

5.3.2 Network for OpenScape Voice

- C**luster Name (*)** - This is the cluster name introduced in node.cfg. It should be provided either when OSV is Integrated Simplex or Standard Duplex.

  IMPORTANT: Cluster Name is used in logicalBranchOfficeId of the OpenBranch Proxy/CSBC xml file so that OpenBranch Assistant can communicate with these modules. For a Central Deployment of Licenses, License Server(s) field should contain the IP Address of CMP.

  Changing the Cluster Name in NCPE will result to a non compatible logicalBranchOfficeId provisioned in OpenBranch Modules.Though this can be changed manually from the OpenBranch Advanced tabs or from the OpenBranch local GUI.

  Proxy logicalBranchOfficeId format:
  <Cluster Name>:<Business Group>:<Branch Office Name>

  CSBC logicalBranchOfficeId format:
  <Cluster Name>:<Business Group>:<Endpoint Name>

  Cluster Name Limitations:
  – Maximum 20 Digits Long
  – First Character must be alphabetical
  – Only Alphanumeric and "underscore" characters are allowed
  – Only lowercase characters should be used for consistency
- **Node 1 Hostname (*) -**

5.3.3 SBC THIG

- **Redundancy** - The SBC THIG redundancy deployment. Single or Redundant. Default value is Single.

  Note: If the OpenScape Voice Type field is set to "Standard_Duplex" in the General tab, this field is set to "Redundant" by default and cannot be changed.

- **WAN Subnet Sharing** - Select whether the signaling and management subnets of the SBC WAN network are shared or separated.

  NOTE: Default value is Signaling-Management Shared

- **WAN interface Management IP address 1 (*)** - The WAN interface management IP address of SBC node 1.
- **WAN network Signaling Netmask (*)** - The WAN Signaling network mask.
- **WAN network Signaling Default Gateway (*)** - The WAN Signaling network default gateway.
- **WAN interface Management IP address** - The WAN interface management IP address.
- **WAN network Management Netmask** - The WAN interface signaling IP address of SBC node1.

5.4 Endpoints Tab

5.4.1 Customer LAN Endpoints

- **Endpoint Name (*)** - The name of the Endpoint.
- **FQDN or IP Address (*)** - The FQDN or IP address of the Endpoint.
- **Customer LAN IP Address (*)** - The IP address of the Endpoint in the customer LAN.
- **Management IP Address** - The Endpoint Management IP address. Applicable only to OSBs and SBCs.
- **Type** - The Endpoint type:
  – Gateway
  – Proxy
  – SBC

  NOTE: Default value is Gateway.
- **Port (*)** - The Endpoint port.
- **Port on SBC THIG (*)** - The Endpoint port on SBC THIG for TCP connectivity. The next port (port + 1) is reserved for TLS connectivity.
- **Transport protocol** - The transport protocol used:
  – TCP
  – UDP
  – TLS

  NOTE: Default value is TCP.
- **Proxy ATA** - Indicates if the endpoint is an OSB Proxy ATA.
- **Media Server Name** - The Branch Media Server name.
- **OSEE LAN Media Server IP Address** - The Branch Media Server IP address in the OSEE LAN.

5.4.2 OSEE LAN Endpoints

- **Endpoint Name (*)** - The Endpoint name.
- **OSEE V8 IP Address (*)** - The IP address of the endpoint in the OSEE V8 network.
- **OSEE V9 IP Address (*)** - The IP address of the endpoint in the OSEE V9 network.

5.4.3 OSEE LAN Endpoints Aliases

- **Alias Endpoint Name (*)** - The endpoint name of the alias.
- **OSEE V8 IP Address (*)** - The IP address of the endpoint alias in the OSEE V8 network.
- **OSEE V9 IP Address (*)** - The IP address of the endpoint alias in the OSEE V9 network.

6 WebCDC Procedure Examples

This section contains step-to-step procedures to perform basic workflows using the WebCDC tool.

6.1 How to Setup a New OSV Standard Solution System

Proceed as follows to set up a new OpenScape Voice system according to the Standard Solution using the WebCDC tool.

NOTE: The tabs provide user friendly per field explanations which are available by moving the mouse pointer over the specific field's cell. This causes 'Tool Tip' boxes to popup and display helpful text. Additional information on each tab and the contained fields is available in Section 4.2, "General Tab".

Prerequisites

The configuration data of the OSV system is available.

Step by Step

1. Open the WebCDC tool and login via SSO or User / Password.
2. Go to the **Start** tab and select Standard Solution for **Deployment Architecture**.
3. Follow the steps in the workflow given in Section 2.5.1, "Solution Configuration" and populate the Mandatory Fields. Optional data may also be suppled as required by the specific deployment.
4. In order to generate the configuration files/scripts follow the workflow steps in Section 2.5.2, "Generation of A Solution's Configuration Files".
5. Load the configuration files into the target OpenScape devices per the information supplied in the **CDC_README_GeneratedFiles.pdf** file and/or the information available in Section 3.2, "Generating the Configuration Files (Export from WebCDC)".

6.2 How to Add an Additional OpenScape Branch to a Deployed Solution

The following is an abbreviated overview of the process to add an additional branch of the OpenScape Branch type using the WebCDC tool and making use of the WebCDC's 'Delta mode' capability. For a more detailed and complete treatment of the procedure, please see the workflow Section 2.5.3, "Delta on OSV configuration".

Prerequisites

- The OpenScape Branch configuration data is known.
- You already have a running OSV system that was originally built with a WebCDC generated database.
- You have downloaded the OSV's database to your local PC from the CMP via its **Maintenance > Recovery > Export** capability.

Step by Step

1. Logon to the WebCDC system.
2. Open a new project from the **My Projects** area or open an existing project to reuse.

   NOTE: If reusing an already existing project its data will be overwritten by the OSV Import that is performed in this procedure.

3. Synch the WebCDC data to the OSV database by importing the OSV data using the **Current Project > Import OSV Data (MP2)** button.

   The **Import OSV Data (MP2)** window will open.

4. Browse to where the CMP exported OSV database is located on the local PC, select it, and then click the **Import Data** button in the Import OSV Data (MP2) window.

   The OSV database will be imported into the WebCDC tabs. This may take a few minutes.

5. Once the import into WebCDC is complete go to the **Start** tab and set the **Delta generation** field to 'Delta on OSV configuration'.
6. Go to the **Site** tab and **Add Column** for the new Site (change the value of the **Delta** row to 'yes'). Then fill in the rest of the fields.
7. Use any of the following tabs for this new site as required by its specifics:
   - **Endpoint**
   - **OSB 50i - 500i**
   - **Analog Adapters**

- **Speed Dial Lists**

8. Go to the **Subscribers** tab and provide the data for the new site's subscribers.
9. Generate your configuration by clicking the **Generate Config** button. If errors occur while the **Progress window** shows the generation status, then the generation must stop (or be stopped via the Stop button), the errors corrected and this step is repeated until there is an error free run.
10. Once an error free generation is accomplished / finished, then import the newly produced configuration files into their associated devices per the procedures in their Installation and Administration guides.

6.3 How to Migrate Subscriber Settings from an OpenScape 4000 to a OSV Standard Solution

Proceed as follows to update OpenScape 4000 subscriber settings to OpenScape Voice using the WebCDC tool.

This makes use of the "**Import Hipath 4000 REGEN**" button on the **General** tab. This basically imports subscriber data from a H4K installation. The rest of the configuration (IPs, routing.branches, gateways, etc) must be manually entered in WebCDC after the import is completed. (Not all 4K data can be migrated to a OSV due to the significant differences in product architectures).

Prerequisites

- The subscriber data of the new users is available.
- The OpenScape 4000 system data is available for import. For supporting details on creating OpenScape 4000 system data suitable for import to WebCDC, see Appendix C, "Converting OpenScape 4000 REGEN File for WebCDC".
- A node.cfg file has been preconstructed for the target OSV and is available on the local PC.

Step by Step

1. Logon to the WebCDC tool.
2. Open a new project from the **My Projects** area or open an existing project to reuse.

   NOTE: If reusing an already existing project its data will be overwritten by the Import that is performed in this procedure.

3. Sync the WebCDC data to the OpenScape 4000 database by importing the data using the **Current Project > Import HiPath 4000 REGEN** button.

   The **Import HiPath 4000 REGEN** window will open.

4. **Browse** to where the HiPath 4000 REGEN file is located on the local PC, select it. It is also possible to optionally **browse** to an already prepared **node.cfg** for the target OSV. Once the files(s) are selected, then click the **Import Data** button in the Import HiPath 4000 REGEN window.

The import of the data will be performed and a message will signal the successful completion. If instead an error message occurs, then determine the reason and repeat until success is achieved.

NOTE: At this point it is necessary to enter additional data and/or modify the data that has been imported to the WebCDC in order to complete the configuration of the target OpenScape deployment. For example, deleting subscriber data from **Subscribers** which are not intended to be transferred to the OpenScape Voice System. Also to be done is assigning OSV specific features to the subscribers such as the User Digest Password generation setting (e.g. 'randomize') and default dialing permissions.

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5. To begin tailoring and supplementing the imported data into the specific OpenScape Voice based deployment go to the **Start** tab and select **Standard Solution** (or other target deployment type) from the **Deployment Architecture** dropdown list.
6. Select a **UC Deployment Architecture** value for the target system. If no UC will exist in the migrated target, then select value 'NO UC'.
7. Select the OpenScape Voice version relevant for your target deployment and also the OpenScape UC App, Branch, SBC and RG8700 versions as applicable in the **Start** tab.
8. Use the other tabs to specify the remaining configuration data for the OpenScape deployment target for this H4K migration. Consult the details of the specific tabs and their data elements as necessary.
9. Once the population of the remaining WebCDC tabs is complete, generate the target configuration by clicking the **Generate Config** button. If errors occur while the **Progress window** shows the generation status, then the generation must stop (or be stopped via the Stop button), the errors corrected and this step is repeated until there is an error free run.
10. Import the updated config files into the OpenScape devices (i.e. OSV, OSB, DLS, Xpressions, UC) by following the applicable guides, e.g. the *OpenScape Voice Vx, Administration and Configuration* documentation.

6.4 How to Create Concierge Service (non-OSCC) in an OSV Standard Solution

The WebCDC tool supports configuration of a non-OSCC (OpenScape Contact Center) Concierge service on the OpenScape Voice (OSV) system. The Concierge-specific data are entered on the **Subscribers** and **Concierge** tabs of the WebCDC tool.

In order to configure a V2R1.2.0 non-OSCC Concierge service on the OSV, five (5) Multiline Hunt Group (MLHG) pilot numbers are necessary. Those five numbers are 'Profile-Only' MLHG pilot numbers of *manual t*ype. They are used for the following purposes:

- **Main Concierge Number** - Off-net subscribers dial to this MLHG pilot number to reach the Concierge service on the OSV. This number is a public DID number. It cannot be a private number since offnet subscribers must be able to reach it from outside the OSV.
- **Internal Call Number** - On-net subscribers dial this MLHG pilot number to reach the Concierge service on the OSV. This number can be either a public DID or Private number.
- **Recall Number** - Calls are routed to this MLHG pilot number when a Concierge attendant transferred a call and the transferred-to destination does not answer. This number can be either a public DID or Private number.
- **Intercept-for-No-Answer Number** - This MLHG pilot number is used when OSV subscribers wish to forward their calls on no-answer to an attendant. It can be either a public DID or Private number.
- **Intercept-for-Busy Number** - This pilot MLHG number is used when OSV subscribers wish to forward their calls on busy to an attendant. This number can be either a public DID or Private number.

NOTE: With the V2R1.2.0 non-OSCC Concierge service, it is not necessary to create a separate MLHG on the OSV for the purpose of parking calls. When agents park a call, the call is routed out of the OSV to a SIP endpoint associated with the Concierge Service Provider (CPS). Parked calls are easily retrieved from the offnet CPS and re-routed appropriately. In this how-to example, a SIP endpoint shall be created on the OSV for the CPS with IP Address and Alias name. Additional routing translations are also added to the OSV to route calls directed to the offnet Concierge numbers to the SIP endpoint associated with the CPS so they may be parked.

Prerequisites

1. The DID and extension numbers of the MLHGs and Agents are known.
2. The purpose / role of each of the 5 MLHGs must also be known, i.e which specific MLHGs will be:
   - Main Number
   - Internal Call Number
   - Recall Number
   - Intercept for No Answer Number
   - Intercept for Busy Number

Step by Step

1. Create the needed MLHGs by selecting the **Subscribers** tab and entering five (5) MLHG entries by specifying data into the following columns (of 5 rows):
   - Extension
   - Direct Inward Dialing Number
   - Device Type - must be Profile Only
   - MLHG Group - must be a unique number for each MLHG
   - MLHG Type - must be Manual
2. Set the **Prompt Language** appropriately for the MLHGs. This parameter refers to the language in which announcements are played to subscribers from the media server (e.g., English).
3. Set the **Digest Password** to values that agree with the settings selected on the **General** tab (i.e., User Digest Password Generation).

NOTE: Next while still at the **Subscribers** tab, information is entered for the Concierge Agents. The V2R1.2.0 non-OSCC Concierge service requires real agents to be assigned to all five MLHGs. These agents must be members of all five Concierge MLHGs simultaneously. In general, all Concierge MLHGs and agents should be in the same Site. The data entered on the **Subscribers** tab should therefore reflect that fact.

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4. Enter a row of data for each Concierge Agent like any other subscriber by noting the following important points:
   - Agents are connected to real OpenStage phones, so the agents' **Device Type** should correspond to a real OpenStage phone type (e.g., OpenStage 60), never 'Profile Only'.

- For all Concierge agents, the **Prompt Language, Device Display Language**, and **Digest Password** should be set appropriately.
- Set the **Concierge User** parameter to 'yes' for all Concierge Agents. This informs WebCDC that these agents are Concierge extensions.

NOTE: The Names and Extensions of these agent/subscribers are **not** to be entered on the **Concierge** tab. Their Names and Extensions will be automatically filled in by WebCDC on the **Concierge** tab upon generating the configuration files.

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5. Select the **Concierge** tab.
6. Enter the Concierge MLHG pilot numbers into the tab cells that correspond to each MLHG's role / purpose in the specific OSV Concierge arrangement.
   - **Main Concierge Number**
   - **Number to dial internally**
   - **Number for Recall**
   - **Number for Parking Calls** - leave blank. (See previous note on call park).
   - **Number to send to Intercept Upon No-Answer**
   - **Number to send to Intercept Upon Busy**
7. As previously noted, leave the rows under the **Subscriber Names** and **Subscriber Extensions** heading blank. When the **Concierge User** field of the agents/subscribers is set to 'yes' on the **Subscribers** tab, then the Concierge agents' Subscriber Names and Subscriber Extensions are automatically filled into the **Concierge** tab during the WebCDC generation of the configuration files.

NOTE: At this point in the procedure all data required by WebCDC for creating the OSV Concierge (i.e. MLHGs and Agents) is complete. The WebCDC user may move on to configuring additional aspects of the deployment by changing to other tabs, or may go straight to generation of all the configuration files and their loading into their corresponding Openscape components, e.g. OSV, OSB, UC, etc. Details for these actions are addressed elsewhere in this document and not repeated here.

Creation of the Call park SIP endpoint on the OSV:

Once the configuration file generation / loading is completed there are additional steps which must be performed for configuring the Concierge Call Park capability. This is performed via the OpenScape CMP/OSV Assistant and is detailed in the following steps.

8. Log onto the CMP and go to **Configuration > OpenScape Voice > Business Group**.
9. Expand **Members** under Main Office.
10. Select **Endpoints**.
11. Click on **Add** to add a new Endpoint for the CPS Server.
12. Select the **General** tab.
13. Set the **Endpoint Name** = 'Concierge' (or another suitable name),
14. Set **Profile** = EPP_<HQ> (i.e. the Endpoint Profile of the Headquarters Site). For example 'EPP_Munich'.
15. Select the **SIP** tab.
16. Check the **SIP Trunking** box.
17. Set **Type** = Static.
18. Set **Signaling Address Type** = IP Address or FQDN.
19. Set **Endpoint Address** = ip address of the Concierge server (e.g., 10.237.1.161).
20. Set **Port** = 5060.
21. Set **Transport Type** = UDP.
22. Set **Best Effort SRTP support** = DISABLED.
23. Leave **ANAT Support** = DISABLED.
24. Under **Security**, click on **Add**.
25. The **Trusted entity** box should be checked and then click **OK**.
26. Select the **Attributes** tab and ensure that no attributes are set on the Attributes tab.
27. Select the **Aliases** tab.
28. Add **Alias** = CPS1 (this is required for the V2R1.2.0 non-OSCC CPS server to register).
29. Add **Alias** = <ip address of the CPS)>. For example, 10.237.1.161.

Creating PAC Codes and Dest Codes to OSV For CPS-based Call Park / Callback

Next, additional routing translations must be added to the OSV to route calls to be parked to the offnet V2R1.2.0 non-OSCC Concierge Provider Service (CPS) reachable via a ranged of numbers. For example, the range 1-222-333-4000 through 1-222-333-4050 will be used in the following steps:

To create the prefix access codes on the OSV for the range 1-222-333-4000 through 1-222-333-4050 do the following:

30. While logged onto the CMP go to **Configuration > OpenScape Voice > Business Group**.
31. Under **Main Office > NP_Common** (Default, Common), expand Translation.
32. Select **Prefix Access Codes.**
33. Click on **Add** to add a new prefix access code for 1-222-333-XXXX (Use the codes specific to your deployment).
34. Set **Prefix Access Code** = 1222 (or 1222333 - use a code that is unique).
35. Set **Minimum Length** = 11 (11 is the Minimum length of 1222333XXXX).
36. Set **Maximum Length** = 11 (11 is the Maximum length of 1222333XXXX)
37. Leave **Digit Position** = 0
38. Set **Prefix Type** = Off-net Access.
39. Set **Nature of Address** = Unknown
40. Leave **Destination Type** = None.
41. Click on **Save**.

Creation of the Destination and Route on the OSV to route traffic to the CPS server for call park/callback via the following steps:

42. While logged onto the CMP, go to **Configuration > OpenScape Voice > Business Group**.
43. Under **Main Office > NP_Common** (Default, Common), expand Destinations and Routes.
44. Select **Destinations** and click on **Add**.
45. On the **General tab**, set **Name** = D_Concierge.
46. Do not check to media server box.
47. Click on **Save**.
48. select **Destination** = D_Concierge (again).

49. Go to the **Routes** tab.
50. Click on **Add** to add a route to the destination
51. Set **ID** = 1.
52. Leave **Type** = SIP Endpoint.
53. Set **SIP Endpoint** = Concierge (this is the Endpoint under Main Office that was created above to point to the CPS server).
54. Leave **Signaling Type** = Undefined.
55. Lave **Bearer Capability** = Unassigned.
56. Leave **Modification Type** = None.
57. Click on **OK** to save.
58. Click on **Save** to save.

Create the Destination Code on the OSV to route calls to numbers in the range 1-222-333-4000 through 1-222-333-4050 to the CPS server for call park/callback by doing the following steps:

59. While logged onto the CMP, go to **Configuration > OpenScape Voice > Business Group**.
60. Under **Main Office > NP_Common** (Default, Common), expand Translation.
61. Select **Destination Codes**.
62. Click on **Add** to add a new destination for calls to 1-222-333-4000 through 1-222-333-4050.
63. Click on the ellipse and select the most recently created Prefix Access Code = 1222 (or 1222333 to set **Destination Code** = 1222 (or 1222333).
64. Set **Remark** = Concierge (to indicate that this destination point to the Concierge Provider Service.
65. Set **Nature of Address** = Unknown.
66. Leave Traffic Type = None.
67. Set **Destination Type** = Destination
68. Set **Destination Name** = D_Concierge (pointing to the CPS endpoint @ 10.237.1.161)
69. Click on **Save**.

At this point, the routing data necessary to route '122233340XX' traffic to the CPS server should be correctly set in the OSV. It remains for a CPS expert to assist with the setup of the CPS server and clients (at least two clients). Once the CPS server and clients are correctly configured, then the V2R1.2.0 non-OSCC Concierge service should be ready to be used.

6.5 How to Setup OpenScape Mobile for Standard Solution

WebCDC has support for configuration of OSMO subscribers.

Prerequisites

The configuration data for the OSMO subscribers and the standard solution deployment are known / available.

Step by Step

1. Navigate to the **General** tab and locate the row with '**OpenScape Mobile**' as its text. OpenScape Mobile is disabled by default in the General tab.
2. Select 'yes' in the '**Enable Feature**' field located under the OpenScape Mobile row. Refer to section General tab in this document for detailed parameter descriptions.
3. Set **Generate OpenScape Mobile Data only** accordingly to the following;
   - **No** (default) - will generate a combined OpenScape Voice database script for ONS number and the OSMO private DNs.
   - **Yes** - will still require a complete configuration of the WebCDC tabs, but creates only the OSMO related provisioning.
4. Set the **Numbering Plan** value.

   All OSMO DNs are private and will be created in the Main Office, although the associated ONS DNs can be provisioned in any branch office. With this only one private OSMO numbering plan is needed, and set to NP_OSMO by default, but may be modified.
5. Select the **Digest Authentication method** from the drop-down of available values.

   OSMO subscribers must authenticate themselves with OSV the same way as any other SIP entity does,. This requires a password. There are three methods to generate the digest authentication password with the WebCDC tool. The default is to inherit the OSMO subscriber SIP password from the associated ONS DN. WebCDC is able to generate a random password or will require the administrator to enter a password for each OpenScape Mobile subscriber.
   - **Inherit Desk Phone DA (default)**
   - **User Input**
   - **Random**

During registration of the OSMO client, additional data, necessary for utilizing OSMO capabilities will be sent to the client. Some of these parameters may be configured in the next three rows of the table (as shown it the next three steps below.

6. **SBC TLS List** is a comma separated list of IP Addresses and ports (<IP Address: Port>) of the WAN interfaces of session border controllers protecting the SIP server in the corporate network.

7. **Service Contact Mail** may be set. In case of errors on the client OSMO log files can be sent via email to a network administrator. **The Service Contact Mail** parameter may be used to set the destination email address in the OSMO clients.

8. **Voicemail** - The OSMO client inherits the OSV voicemail DN and stores the number in GNF format on the phone in order to reach the voicemail account independent of connectivity. Format: Should be in GNF i.e. +15613391074.

9. Next the OpenScape Mobile Office Code must be configured. This is performed on the **Site** tab.

   OSMO DNs are private numbers and hidden to the end user. WebCDC generates these DNs by using the extensions of the associated ONS number and prefixes the extensions with the 'OSMO Office Code', which can be between 3 to 8 digits. By double clicking the **Office Code for OpenScape Mobile feature** field WebCDC creates the same 3 digit codes for all configured sites.

   NOTE: In case extensions in the different sites are overlapping, it is necessary to manually set the office codes in a way that the composed OSMO DN from office code and extension would not overlap with an OSMO DN from another site.

   ---

10. Finally, the OSMO feature must be enabled per subscriber on the **Subscribers** tab.

    The OSMO feature maybe assigned for each subscriber individually by selecting **yes** in the **OpenScape Mobile Feature** column of the subscriber. Depending on the previously chosen digest authentication method in the General tab , i.e. **User Input**, the WebCDC administrator may need to manually enter a password in the under the **OpenScape Mobile Digest Password** column.

NOTE: The enabled OSMO feature automatically triggers WebCDC to choose the correct feature profile, i.e. OSMO w/o UC login = FP_Standard_Int, OSMO w/ UC login = FP_UC_Int.

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11. At this point the configuration details for OSMO are complete. Additional tabs for the deployment may be worked, or the user may continue on to save the configuration (as XML) or generate the actual configuration files. Details for these actions are available in this document.

6.6 How to Setup a New OpenScape Enterprise Express System Using the WebCDC

A step-by-step procedure is provided here which addresses data collection for OpenScape Enterprise Express systems using WebCDC. This information is targeted for use by OpenScape Enterprise Express end customer network planners either with or without the assistance of a Unify (or a partner) expert.

OpenScape Enterprise Express experts may use the collected data and perform the actual generation of the OpenScape device configuration files. These generated files are then used to configure the customer's specific deployment via their execution in the specific OpenScape devices. The OpenScape Enterprise Express Installation Guide has more information on how these files are used as part of the overall staging of OSEE deployments.

NOTE: User friendly descriptive per field explanations which are available by clicking the '?' at the end of the specific field's name. This causes 'Tool Tip' boxes to popup and display helpful text.

Prerequisites

The configuration data for the OpenScape Enterprise Express system is known / available.

Step by Step

1. Enter the WebCDC URL.

   https://<server-name>

2. Login to the WebCDC web interface by either doing the following:

   - SSO button
   - Enter **User Name** and **Password**, then clicking the **Login** button.

3. Create a new project by clicking the **My Projects > New Project** selection, provide a name within **Enter Project Name** field, and then click the **Create Project** button.

   The new project is created and then opened.

4. Select the **Start** tab and provide (or update) the following details that are useful for management / control over the specific OpenScape Enterprise Express configuration project.

   - **Customer**
   - **Project (name)**
   - **Last Change Made By**

- **Telephone / E-mail**
- **Document Version**
- **Date of Last Change**

5. Click into the **Start** tab and set the **Deployment Architecture** to **OpenScape Enterprise Express.** The **UC Deployment** default value may be kept.
6. Set the product software versions for the **Openscape Voice, RG8700, OpenScape UC App, OpenScape Branch and OpenScape SBC**.
7. Select the **General** tab, click the **Edit** button and in the ***General parameters of the OpenScape Voice system*** section:
   a) Select the **Keyboard settings for node.cfg** value appropriate for the deployment's country.
   b) Enter the **Company Name.** Note that it is recommended to use hyphens ('-') in place of spaces as this field must use only DNS allowed characters (i.e. [az][AZ][09][-][.]).
   c) Enter the **Business Group Name**.
   d) Enter the **Business Group Default Display Number**.
   e) Enter the **User Digest Password** Generation value that will be used for the security of all the SIP phone connections. Available values are **Disable**, **User Input**, and **Randomize.**
   f) Enter the **Subscriber Display Syntax** as either 'First Name Last Name' or 'Last Name, First Name'.
   g) If this is to be a site delta generation (e.g. adding a site to a existing deployment; but modify of a site is not possible), then set **Delta generation** to 'Delta on OSV configuration'.
   h) If delta's upon an existing deployment's subscribers is necessary, then set **Subscriber Delta generation** to 'Delta on CDC project'.
   i) Trace Manager functionality may be enabled via the field **Enable Trace Manager**. Default is 'no'.
   j) Set the **SIP transport type** to **tcp, tls,** or **udp** as required.
   k) Enable FQDN support.
   l) Default Voice Mail Assignment.
   m) Voice Codec 1 - 6.
   n) Media Protocol:
   o) SBC Media Protocol
   p) SRTP method

q) T38 supported

r) Packetization time (ms)

s) DSCP QOS for SIP/MGCP

t) DSCP QOS for RTP

u) Set the **SBC: Enable Remote Endpoints** if the central SBC is to handle remote endpoints in remote sites, or handle SSP (SIP Service Providers).

v) The **SBC: Enable Remote Subscribers** should be if remote subscribers are to REGISTER towards a central SBC via the WAN (e.g. via the internet) towards an OSV. SUPER IMPORTANT is that the digest authentication is ENABLED in this case, to prevent a major security hole allowing SIP communication via the internet without verifying the credentials of the user via the digest authentication. By default, the "SBC: Enable Remote Subscribers" is disabled for security reasons.

w) SEN Staging - workbench selection

x) Set the **Enable EA Cockpit for EA Groups and Enable CAC Feature** values as **yes** or **no** as needed (defaults are no).

y) Set **Enable PC port on phone** if PCs will be connected behind OpenStage phones.

z) Breakout Strategy

aa) In most OpenScape Enterprise Express cases the **Special Customer Configuration** field may be ignored, but if **PBX-Routing** is a factor then this field may be used.

ab) Enable data collection for Continuous Tracing

ac) Enable IPV6 Support (if required).

8. While still on the **General** tab the following items are configured in the **OpenScape UC basic configuration** section

   a) OpenScape UC Password.

   b) Default OpenScape UC Password Change

   c) OpenScape UC PIN

   d) OpenScape UC default Profile.

9. While still on the **General** tab the following items are configured in the **OpenScape Xpressions basic configuration** section

   a) Xpressions abbreviated voicemail menu

   b) Default User Type

   c) Default Preferred Type

d) Default Password generation method

e) Default PIN generation method

f) Xpressions Conuser Type

g) Xpressions LM Account Type

h) Xpressions Exchange

10. While still on the **General** tab set **Call Admission Control** field **Enable Feature** to **yes** if CAC will be used in the deployment.

11. While still on the **General** tab if **OpenScape Mobile** is to be in the deployment, then the following fields should be configured:

    a) **Enable** set to **yes**

    b) Generate OpenScape Mobile Data only (and no other OSV data)

    c) Numbering Plan

    d) Digest Authentication method

    e) SBC TLS List

    f) Service Contact mail

    g) Voicemail

    h) Select the IP Tab

12. Select the **Site** tab.

    a) The first major block / section of information on this tab collects configuration data that applies only to the **Headquarters (main office)** site. Enter the **Private Extension** and **Public Numbers** for the various **Voicemail**, **Conference, Auto Attendant** and **Operator** functions. Fields that do not require input / are not applicable are shown as 'greyed-out' cells in the tab.

    b) The next major block on the **Site** tab supports per site configuration settings. This includes the **Headquarters (main office)** location as well as the remote Branch Offices (i.e.**Site 2**, **Site3**, ...). Fill in the relevant data fields for each site. The input field explanations are available in Section 4.2, "General Tab". WebCDC also supports helpful field explanations via mouse pointer triggered Tool Tip pop ups.

13. Select the **Endpoints** tab.

14. An endpoint row will be presented for each site. The following columns will be pre-populated as a result of the preceding steps. The prefilled values in most cases do not require any update, but they may be modified if necessary. For example, modification of the prefilled default Endpoint Type to select a different model of OpenScape Branch or RG 87xx.

Prefilled Fields:

a) **Endpoint Name (Gateway or Proxy Name)**.

b) **Site Name**.

c) **Endpoint Type** - modify as necessary to the correct OSB or RG 8700 model.

d) **Endpoint Usage** - modify as necessary to **Gateway, Proxy, Gateway And Proxy,** or **SBC Proxy**.

e) **Signaling Endpoint IP**.

f) **Signaling Endpoint Netmask**.

g) **Signaling Endpoint Default GW**.

h) **Administration LAN IP** (RG 8700 only).

i) **Administration LAN Netmask** (RG 8700 only).

j) **Administration LAN Default GW** (RG 8700 only).

15. The remaining columns within the **Endpoints** tab require valid data input in order to complete the endpoint configuration data.

Fields requiring additional input:

a) **Host Name**

b) **County Code** - e.g. 1 for USA, 49 for Germany, etc.

c) **Area Code** - Area code for the site.

d) **Subscriber Code / Local Exchange Code** - Note that this value will be automatically defaulted to ’123’ when Dial In Number Type in the **General** tab has been set to ’Any Non-DID Numbers’.

e) **Subscriber DID Extension Range** - Telephone numbers in the public network that route directly to stations in the customer’s network.

f) **PSTN Provider Name**

g) **Presubscribed Carrier Code** - some countries require this, e.g. Brazil.

h) **Port and Line Channel Selection** - Select the used ports (lines) and the channels of the gateway.

i) **Signaling Endpoint IP**

j) **Signaling Endpoint Netmask**

k) **Signaling Endpoint Default GW**

l) **Administration Endpoint IP** (RG8700 only)

m) **Administration Endpoint Netmask** (RG8700 only)

n) **Administration Endpoint Default GW** (RG8700 only)

o) Virtual IP Address (OSB Only) - generally not used for OSEE

p) **Voice LAN IP** (RG 8700 only).

q) **Voice LAN Netmask** (RG 8700 only).

r) **Voice LAN Default GW** (RG 8700 only).

s) **WAN IP**

t) **WAN Netmask** .

u) **WAN Default GW**

v) SIP Provider

w) SSP Address(IP/FQDN)

x) SSP SIP Port

y) SSP SIP Transport

z) **Inventory**

aa) **Software Version**

16. If the deployment has any analog adapters, then the next step is to select the **Analog Adapters** tab. This tab supports the details of which sites have adapters, their type and IP addressing information.

    a) **Analog Adapter Name.**

    b) **Site Name** - select it from the drop down list of site names.

    c) **Analog Adapter Type** - select the model from the drop down list.

    d) **Analog Adapter Signaling IP Address**.

    e) **Analog Adapter Signaling Netmask**.

    f) **Analog Adapter Signaling Default GW**.

17. The next tab for **OSB 50i - 500i** supports input of additional details for OpenScape Branches that are located at the remote sites and which are either the 50i, 500i model or will be acting as a Session Border Controller. If the Openscape Branch is to function as an SBC, then only additional information concerning its WAN IP address, Netmask and Default Gateway are required. If it is a 50i or 500i, then the following must be supplied.

    a) **OpenScape Branch Endpoint Name**.

    b) **Trunk Group Name** - A user assigned name.

    c) **Trunk Type** - Of the 50i's port (Normal or Emergency) is set for up to 8 physical ports in consecutive columns.

d) **Physical Port** - up to 8 may be specified. A range of channels, individual channels, or 'X' if all channels are used.

e) **Default Dest** - should be in the DID range.

f) **FQDN**

g) **WAN IP**

h) **WAN Netmask** .

i) **WAN Default GW**

18. If the deployment will use customer Feature Profiles, then they may be created using the **Feature Profile** tab and referenced from subscriber entries on the **Subscribers** tab. Otherwise, WebCDC will assign the pre-cast Feature Profiles by default using its internal rules.

19. Select the **Subscribers** tab. Enter a row of input for each subscriber that will be in the target deployment. The following columns / data items may be input:

    a) **First Name** - Name to show in the phone displays.

    b) **Last Name** - Name to show in the phone displays.

    c) **Site Name** - Site where subscriber is located.

    d) **Subscriber Dialing Permissions** - Scope of the subscriber's calling capabilities.

    e) **Extension** - The subscriber's extension number.

    f) **Directory Number** - If there is a public number.

    g) **External Caller Id** - If it needs to be different than DN.

    h) **Device Type** - The model of the phone. The **Profile Only** value is required if the number is to be a MLHG.

    i) **MLHG Group** - The ID number for the MLHG.

    j) **MLHG Type** - The hunting algorithm used by the MLHG. This should only be set for the pilot number, i.e. the Device Type must also be set to Profile Only.

    k) If the deployment shall have keysets, the information on **Line Key Label Digits, Keys Order**, **Keyset Line**, and **Keyset Module** is entered in consecutive columns. If keysets are not an issue then these columns may be hidden via the **Hide Keyset Fields** button.

    l) **Prompt Language** - Language that is used for their media server announcements, e.g. English, German.

    m) **Xpressions Language** - Language that is used by the Xpressions component, e.g. English, German.

n) **UC Login Id -** Users Login Id for UC services.

o) **UC Instant Messaging Address**

p) **Email** - This email address information configures the Xpressions component to provide eFax support to the subscriber.

20. If EA Groups shall be deployed in the specific deployment, then select the **EA Groups** tab. Enter a row of input for each station that shall be in the EA Group. The following columns / data items may be input:

    a) **Executive/Assistant Group Name** - A meaningful name for the group.

    b) **Subscriber (Private) Extension** - Must refer to a subscriber in the Subscribers tab.

    c) Subscriber Site Name

    d) **Executive/Assistant Configuration** - **Basic**, **Enhanced** or **Rollover**

    e) **Line Type** - Applies only for Rollover (**Primary**, **Query**, **Rollover**, **Private**). Blank is treated as Primary.

    f) **Function** - The station's role in the EA arrangement, i.e. which assistant or executive they are within the group.

    g) **Executive/Assistant Relationship** - For example 'Executive2 - Assistant1' for Executive2's primary assistant to be Assistant 1.

NOTE: The **Prefill Executive Assistant arrangement** button on this tab allows for time and effort savings by opening a window for selecting the EA Arrangement and Option (Basic, Enhanced, Rollover)

---

21. If the specific OpenScape Enterprise Express deployment is to have contact center capability, then select the **OSCC** tab. Details for configuring OSCC is available in Section 6.7, "Setup of OpenScape Contact Center for Enterprise Express", on page 153.

22. Go to the **vApp** tab and either use the **Assign Default vApp values** button or supply values that are unique / specific to the target deployment.

23. At this point the **Express** data input is complete. Save the project data via the **Save** button.

24. The collected **Express** data may be (1) exported (to.xml) via the **Export Project button** and/or (2) you may go directly to the file generation via the **Generate Config** button.

25. The resulting files should be provided to OpenScape Enterprise Express experts to be used to complete the staging of the OSEE deployment.

6.7 Setup of OpenScape Contact Center for Enterprise Express

The WebCDC tool supports configuration of OSCC (OpenScape Contact Center on the OpenScape Voice (OSV) system for OpenScape Enterprise Express (OSEE). The OSCC-specific data is entered on the Subscribers and OSCC tabs of the WebCDC tool. OSEE configuration allows a maximum of ten Contact Center Groups and allows each manager to supervise one or more groups. The agents may be spread across the two groups. Subscribers assigned to OSCC will have a specific Feature Profile assigned during file generation.

Each Contact Center Group configuration consists of:

- Call-In DN,
- Re-queue DN,
- MLHG Init Pilot DN,
- MLHG MOH (Music On Hold) DN
- Closed Announcement DN.

All of these DNs with the exception of the Closed Announcement DN must be defined on the Subscribers tab. The manager and agent positions are members of both MLHGs and will also be defined on the Subscribers tab.

The basic call scenario for OSCC is that a caller dials the main Call-In DN, that call is forwarded to the Initial MLHG. If an agent (MLHG member) is logged in and available to take the call, the call will be forwarded to an idle agent. If all agents are busy then the call is forwarded to the Music On-Hold (MOH) MLHG, the caller will remain in the Queue and receive MOH until an agent becomes idle. Once an agent becomes idle then the call is removed from the Queue and forwarded to the available agent. In the case where there are no agents logged in (for example, the business is closed) then instead of placing the call in a Queue the call is immediately forwarded to an Intercept announcement. In this case the Intercept announcement states that there is no one available to take the call and to call back during normal business hours.

Prerequisites

The configuration data for the OpenScape Enterprise Express system is known / available.

Step by Step

On the **Subscribers** tab create the following DNs:

1. **Call-In DN** - The Call-In DN is a public number (Must have a DID assigned and the DID must fall in the range on the EndPoint tab.) This DN is a SIP subscriber with a Device Type of 'Other SIP device' and cannot be assigned

as profile only. This is the main number that will be used to call into the Contact Center. This DN shall not register with the OSV and hence it will be setup with Call-Forward Unconditional to the MLHG Init Pilot DN.

2. **Re-queue DN** - The Re-queue DN is a SIP subscriber with a private number that must have a Device Type of 'Other SIP device' assigned. This number will be used when an agent accepts a call but then needs to place the caller back in the MLHG queue. This DN shall not register with the OSV and hence it will be setup in the OSV with Call-Forward Unconditional to forward to the MLHG MOH Pilot DN.

3. **MLHG Init Pilot** - The MLHG Initial Pilot DN is a SIP subscriber with a private DN and should have a device type of 'profile only.' This hunt group will be configured with Hunt Type set for 'manual.' The manager and agents assigned to this Contact Center Group are members of this Initial Hunt Group.

4. **MLHG MOH Pilot** - The MLHG Music On Hold Pilot DN is a SIP subscriber with a private DN and should have a device type of 'profile only.' This hunt group will be configured with Hunt Type set for 'manual.' The manager and agents assigned to this Contact Center Group are also members of this MOH Hunt Group.

5. **Closed Announcement DN** - The Closed Announcement DN is a private DN and is not defined on the Subscribers tab and is only defined on the OSCC tab. Routing will be created to forward any calls to this DN to the Xpressions EndPoint where they will be played an Intercept Announcement. If a customized announcement is not provided a generic announcement will be played.

6. **Manager and Agent DNs** must also be defined on the **Subscribers** tab. The DNs can be public or private numbers and for the **Device Type** they must have a SIP device defined. Only **OpenStage 40, 60 or 80** are applicable as Device Types for Managers and Agents. These DNs cannot be 'profile only.' If the Device Type is blank on the **Subscribers** tab then the default from the Express Site tab will be used. Managers and Agents must be assigned to both the **Init MLHG** and the **MOH MLHG**. This is done by assigning the same Group ID in the **MLHG Group** column on the Subscribers tab. If this column is left blank WebCDC will automatically fill in the Group ID during the configuration generation. In addition to the two Init and MOH MLHG's the subscribers that are agents can be assigned to other MLHG's.

7. In addition to the above entries on the **Subscribers** tab, the following entries must be populated in the **OSCC** tab. Change to that tab to provide the following:

   - Contact Center Group Name
   - Contact Center Group Description
   - Call in Public Extension

- Requeue Directory Number - a MLHG created via the Subscribers tab is assigned its specific role in the OSCC Group.
- MLHG Init Pilot Directory Number - a MLHG created via the Subscribers tab is assigned its specific role in the OSCC Group.
- MLHG MOH Pilot Directory Number - a MLHG created via the Subscribers tab is assigned its specific role in the OSCC Group.
- Closed Announcement Directory Number

8. Following the above items there is a table that requires entry of multiple rows for OSCC's extensions, whether the extension is for an agent or manager, and for which Contact Center Group they belong.
   - Subscriber Directory Number
   - Manager or Agent - a dropdown gives the two choices from which to select.
   - CallCenter Group - a dropdown gives the (up to) ten groups from which to select.
9. At this point, the input for the OSCC tab is complete. Additional tabs for the deployment may be worked, or the user may continue on to save the configuration or generate the actual configuration files. Details for these actions are available in this document.

6.8 How to use the Delta functionality on CDC project Delta generation mode

The following options are supported by WebCDC for existing projects:

- Creation of new Sites/Branches.

  In that case the user is able to create new Sites, Endpoints, and Subscribers for the specific Endpoints and Sites.
- Creation of new office codes on existing Sites/Endpoints.

  The expansion of existing extension ranges (private or public) is also supported.

In order to employ this functionality, you should select the **Delta on CDC project** option as Delta generation value on the **Start** tab. Upon selecting this option, two additional buttons are displayed under the **Start** tab (**Set Delta Point** and **Clear Delta Point**).

Prerequisite

An existing standardized for the customer WebCDC project that has been generated and deployed.

Step by Step

1. Log in to WebCDC.
2. Open the WebCDC project on which you want to apply the **Delta on CDC project** functionality.

   IMPORTANT: Back up (export) your project before you proceed.

3. Set the **Delta on CDC project** option as Delta generation value on the **Start** tab. This will trigger the buttons **Set Delta Point** and **Clear Delta Point** to be displayed in the **Start** tab. Both buttons are clickable in **Edit** mode.
4. Press the **Set Delta Point** button in order to define the point up to where the WebCDC project has been standardized for the customer, generated, and deployed.

   After pressing the button, no additional changes are allowed to existing entries. Moreover, the **Delete Row** / **Delete Column** and **Import rows from Excel spreadsheet [Deletes existing rows]** options are disabled, in order to prevent th modification of existing data, that would lead to the generation of configuration files that are out of sync with the original project deployment.
5. Add new data (Subscribers, Sites, Endpoints etc.) to the project by using the **Add Row** / **Add Column** and/or **Append rows from Excel spreadsheet** options.
6. After entering all new (delta) data, you may proceed with the generation of the configuration files of your project.

   NOTE: The generated configuration files relate only to data entered after pressing the **Set Delta Point** button.

Additional info

- If an additional delta generation for the same project is needed, the **Set Delta Point** button can be used to define a new starting point.
- If you want to reset any Set Delta Point action, simply press the **Clear Delta Point** button. After doing so, all data become editable again. If you want to use the **Delta on CDC project** functionality again, you should set a new Delta Point.
  Set Delta Point action can also be reset by changing the Delta generation value on the Start tab to a value other than **Delta on CDC project**.

Important remarks

- Only the owner of the project or a user who has been shared the project with and has 'Admin' Access level, are able to perform the **Set Delta Point** and **Clear Delta Point** actions.

- If you do not set a Delta point after changing the Delta generation value to **Delta on CDC project**, you are not allowed to proceed with the project generation.

6.8.1 Update of projects on "Delta on CDC project" mode that have been created prior to WebCDC V1.R1.19.00

The **Delta on CDC project** functionality has been introduced with WebCDC V1.R1.19.00. This functionality was offered in older WebCDC releases as well, but had different business logic and UI.

IMPORTANT: As always, back up your project before you proceed.

When updating a project that was created using a version older than V1.R1.19.00 and was in **Delta on CDC project** mode, the following points need to be taken into consideration:

- No Delta Point will be set even though the project will still be in **Delta on CDC project** mode after the update. You need to set a **new** Delta Point in order to proceed with the Project generation.
- After the update, the old Delta column will no longer exist under the **Subscribers**, **Feature Profiles**, **Speed Dial Lists**, and **Class Of Restriction** tabs. Moreover all entries that were NOT previously marked as Delta (thus 'old' data) will automatically get greyed out and will no longer be editable.

Follow the procedure described below to "reconstruct" your project and proceed with its generation:

1. For each one of the tabs listed above that you had used the old Delta functionality on, click the **Export structure+data to Excel spreadsheet** button to export its data to an Excel file.
2. Modify the exported spreadsheets so as to contain only the entries that are NOT greyed out in the respective tabs of WebCDC.
3. In WebCDC, switch between the same tabs as in step 1, and delete all entries that are NOT greyed out.
4. Set a Delta Point by clicking on the respective button on the **Start** tab.
5. Import the modified Excel spreadsheets back to the respective tabs using the **Append rows from Excel spreadsheet** option.
6. The project transformation is complete and it may now be generated utilizing the new **Delta on CDC project** functionality introduced in CDC V1.R1.19.00 version.

6.8.2 How to use the "Delta on CDC project" generated files

This section provides an overview of the files that are generated when using the **Delta on CDC project** functionality:

- **deltaFqdn_setup.sh**

  NOTE: This file is generated only when at least one new A, B or SRV record is detected in the Delta configuration.

  Since an **fqdn.cfg** file has already been staged and applied to the Solution, there is no need to generate a new one. Instead, a script named **deltaFqdn_setup.sh** is produced. The script is located under the **OS_Voice** directory of the generated data folder. In order to use it, follow the steps below:

  1. Upload **deltaFqdn_setup.sh** to the OSV node under **/etc/hiq8000**
  2. Execute the following commands as the **root** user in OSV:

     ```
     chmod 744 /etc/hiq8000/deltaFqdn_setup.sh
     /etc/hiq8000/deltaFqdn_setup.sh
     ```

     NOTE: In case of a cluster OSV, repeat the steps on **both** nodes.

- **SBC THIG xml (OSEE specific)**

  NOTE: This file is generated only if the OSEE solution is V9 or later.

  In case one or multiple new endpoints are introduced when using the Delta generation mode, WebCDC produces the SBC THIG xml file with all solution remote endpoint entries (i.e. Staged + Delta).

  If no additional **manual** edits have been performed to SBC THIG, the aforementioned xml file can be used. Otherwise, please refer to OpenScape SBC V9, Configuration Guide, Administrator Documentation and proceed with the manual steps in order to add all new Remote Endpoints along with their Media Server configuration to SBC THIG.

6.9 How to set up Emergency Calling using GNF numbers

To enable this feature, the use of customized country data in your WebCDC project is required.

Step by Step

1. Navigate to the **Endpoints** tab and press the **Show list of supported countries** button on the upper right corner.
2. In the pop-up window mark the **Customize Country Data** checkbox and click **Close**.

   The **Country Data** tab is now available for custom configuration.
3. Switch to the **Country Data** tab and highlight the row of the country which will use the custom routing rules for emergency calls.
4. Select the desired rule in the **Prefix Code for Emergency Numbers** column.
5. **Save** your project.

NOTE: This rule will apply to all Endpoints (gateways) on the **Endpoints** tab that use the Country Code you edited.

A Default Settings Based on Standard Solution

This chapter describes the default configuration of the End-systems.

NOTE: The **Generate Config files** process creates a README file (**CDC_README_GeneratedFiles.pdf**) in the current working directory where the WebCDC tool is stored. This file contains information regarding the generated data and how to import and execute the configuration data in the target network devices. **It is highly recommended to read this text.**

A.1 Configuration Files

For information on the produced configuration files and their contents please see:

- Section 3.2, “Generating the Configuration Files (Export from WebCDC)”
- Section 4.2, “General Tab”

A.2 Feature Profiles

Please see the **Feature Profile** tab in the WebCDC tool itself for information on the predefined feature profiles and their specific feature settings.

A.3 Numbering Plan Related Information

This includes prefix access codes, destination codes, routes, service codes, extension codes, location codes.

Feature Codes

Feature Name	Feature Code
Large Conference	1234567890
Activate Simultaneous Ringing	*10
Deactivate Simultaneous Ringing	#10
Edit Simultaneous Ringing List	**10
Serial Ringing - Screening List Editing	*11
Activate MLHG Make Busy	*13
Deactivate MLHG Make Busy	#13

Table 13 Feature Codes

Feature Name	Feature Code
Toggle MLHG Make Busy	**13
Activate MLHG Stop Hunt	*14
Deactivate MLHG Stop Hunt	#14
Toggle MLHG Stop Hunt	**14
Individual Speed Dialing	*20
System Speed Dialing First List	*21
System Speed Dialing Second List	*22
Edit One-Digit Individual Speed Dialing List	**201
Edit Two-Digit Individual Speed Dialing List	**202
Personal Identification Number	*30
Activate Hot Desking	*31
Deactivate Hot Desking	#31
Activate Class Of Service Switchover	*32
Deactivate Class Of Service Switchover	#32
Activate DN Announcement Service	*33
Activate Call Forwarding Unconditional	*40
Deactivate Call Forwarding Unconditional	#40
Activate Call Forwarding Busy	*41
Deactivate Call Forwarding Busy	#41
Activate Call Forwarding No Reply	*42
Deactivate Call Forwarding No Reply	#42
Activate Call Forwarding Voice Mail	*43
Deactivate Call Forwarding Voice Mail	#43
Selective Call Forwarding - Screening List Editing	*44
Caller Identity Suppression Per Call	*51
Caller Identity Delivery Per Call	#51
Selective Caller Rejection - Screening List Editing	*54
Activate Anonymous Caller Rejection	*55
Deactivate Anonymous Caller Rejection	#55
Malicious Call Trace	*57
Selective Caller Acceptance - Screening List Editing	*58
Activate Call Completion Service (CCBS or CCNR)	*6
Deactivate Call Completion Service (CCBS or CCNR)	#6
Last Incoming Number Redial	*60
Last Outgoing Number Redial	*61
Group Call Pickup	*7
Business Group Night Bell Call Pickup	*70

Table 13 Feature Codes

Feature Name	Feature Code
Call Park to Server	*71
Call Park Retrieve from Server	#71
Silent Monitoring - Monitor	*72
Silent Monitoring - Barge-in	*73
Call Pickup Directed	*74
Account Code Entry	*81
Pre-Dial Authorization Code	*82
Activate Do Not Disturb	*9
Deactivate Do Not Disturb	#9
Executive Busy Override	*90
Speed Calling 1	*201
Speed Calling 2	*202
1-way intercom	*62
2-way intercom	*63
Connect to Mailbox	*99
Call Privacy Toggle	*15
Activate Calling Identity Suppression	*52
Deactivate Calling Identity Suppression	#52
Toggle Calling Identity Suppression	**52
Alternative Calling Identity	*53
1-Way Broadcast Call (Speaker Call)	*64

Table 13 Feature Codes

Toll and Call Restriction

Toll and Call Restriction Name	Class of Restriction
International	COR_International
Mobile	COR_Mobile
National	COR_National
Local	COR_Local
Office	COR_Office
Premium Rate	COR_Premium

Table 14 Toll and Call Restriction

A.4 Language Configuration File

Configuration file name:

```
WebCDC_Languages.txt
```

Exported file includes abbreviations that represent the languages being supported by the media server.

NOTE: The actual languages must be configured in the media server as a separate action. WebCDC does not address/handle this activity.

B Default Settings Based on OpenScape Enterprise Express Architecture

This chapter describes the default configuration of the OpenScape Enterprise Express end-systems.

NOTE: The **Generate Config** button creates a README file (**CDC_README_GeneratedFiles.pdf**) which is stored along with the created configuration files. This file contains information regarding the generated data and how to import and execute the configuration data in the target network devices. This information should be used in accordance with the OpenScape Enterprise Express Installation Guide.

B.1 Configuration Files

For information on the produced configuration files and their contents please see:

- Section 3.2, “Generating the Configuration Files (Export from WebCDC)”
- Section 4.2, “General Tab”

B.2 Feature Profiles

Please see the **Feature Profile** tab in the WebCDC tool itself for information on the predefined feature profiles and their specific feature settings.

B.3 Numbering Plan Related Information

This includes prefix access codes, destination codes, routes, service codes, extension codes, location codes.

Feature Codes

Feature Name	Feature Code
Large Conference	1234567890
Activate Simultaneous Ringing	*10
Deactivate Simultaneous Ringing	#10

Table 15 Feature Code

Feature Name	Feature Code
Edit Simultaneous Ringing List	**10
Serial Ringing - Screening List Editing	*11
Activate MLHG Make Busy	*13
Deactivate MLHG Make Busy	#13
Toggle MLHG Make Busy	**13
Activate MLHG Stop Hunt	*14
Deactivate MLHG Stop Hunt	#14
Toggle MLHG Stop Hunt	**14
Individual Speed Dialing	*20
System Speed Dialing First List	*21
System Speed Dialing Second List	*22
Edit One-Digit Individual Speed Dialing List	**201
Edit Two-Digit Individual Speed Dialing List	**202
Personal Identification Number	*30
Activate Hot Desking	*31
Deactivate Hot Desking	#31
Activate Call Forwarding Unconditional	*40
Activate Class Of Service Switchover	*32
Deactivate Class Of Service Switchover	#32
Activate DN Announcement Service	*33
Deactivate DN Announcement Service	#33
Deactivate Call Forwarding Unconditional	#40
Activate Call Forwarding Busy	*41
Deactivate Call Forwarding Busy	#41
Activate Call Forwarding No Reply	*42
Deactivate Call Forwarding No Reply	#42
Activate Call Forwarding Voice Mail	*43
Deactivate Call Forwarding Voice Mail	#43
Selective Call Forwarding - Screening List Editing	*44
Caller Identity Suppression Per Call	*51
Caller Identity Delivery Per Call	#51
Selective Caller Rejection - Screening List Editing	*54
Activate Anonymous Caller Rejection	*55
Deactivate Anonymous Caller Rejection	#55
Malicious Call Trace	*57
Selective Caller Acceptance - Screening List Editing	*58
Activate Call Completion Service (CCBS or CCNR)	*6

Table 15 Feature Code

Feature Name	Feature Code
Deactivate Call Completion Service (CCBS or CCNR)	#6
Last Incoming Number Redial	*60
Last Outgoing Number Redial	*61
Group Call Pickup	*7
Business Group Night Bell Call Pickup	*70
Account Code Entry	*81
Call Park to Server	*71
Call Park Retrieve from Server	#71
Silent Monitoring - Monitor	*72
Silent Monitoring - Barge-in	*73
Pre-Dial Authorization Code	*82
Activate Do Not Disturb	*9
Deactivate Do Not Disturb	#9
Executive Busy Override	*90

Table 15 Feature Code

Toll and Call Restriction

Toll and Call Restriction Name	Class of Restriction
International	COR_International
Mobile	COR_Mobile
National	COR_National
Local	COR_Local
Office	COR_Office
Premium Rate	COR_Premium_Rate

Table 16 Toll and Call Restriction

C Converting OpenScape 4000 REGEN File for WebCDC

This appendix describes how to prepare a regen file for the WebCDC-tool. It does not describe how errors can be rectified during upgrade.

NOTE: In order to start, the following requirements appear:
- WebCDC needs a HiPath V5 or above English AMO's regen file and key oriented.
- To be able to make an upgrade from an older version, a good knowledge of OpenScape 4000 AMO's is required.

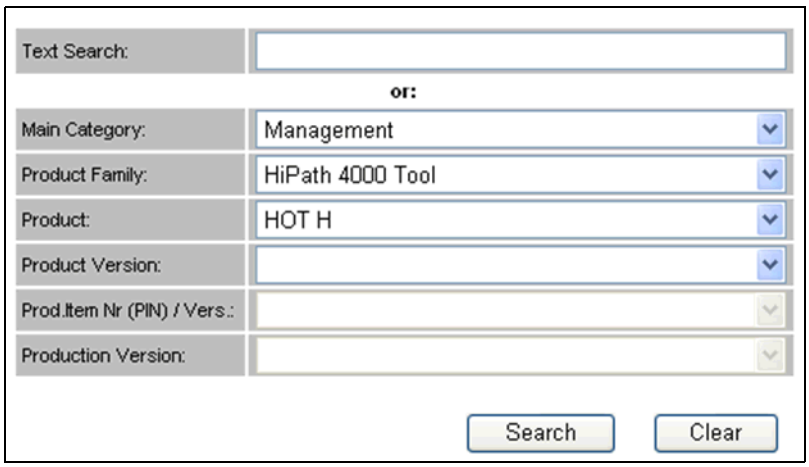
C.1 Required information

- Regen file.
  Via HiPath Assistant "Configuration Management", "HiPath Inventory Management", "RMX backup". The backup will take several minutes.
  Copy the result to a `.txt` file
- HW architecture.
  Via HiPath Assistant "Expert mode", "HiPath 4000", "HiPath 4000 Expert Access", type the command
  `DIS-DBC;`
  Copy the result to a `.txt` file.

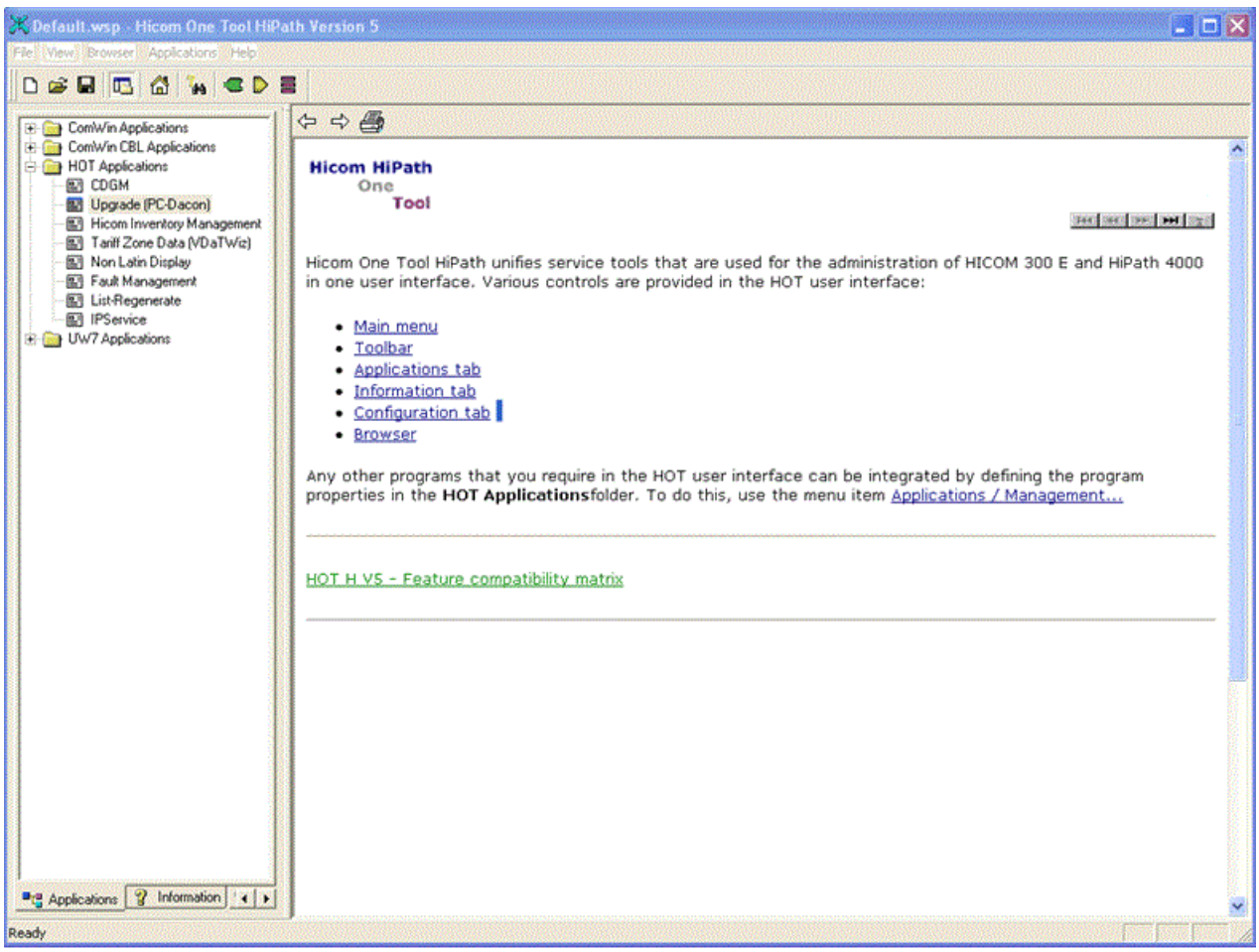
If your OpenScape 4000 system is already in V5 or above, just check Appendix C.2, "Required Software and Configuration." and go straight to Appendix C.4, "Converting from Position to Key".

C.2 Required Software and Configuration.

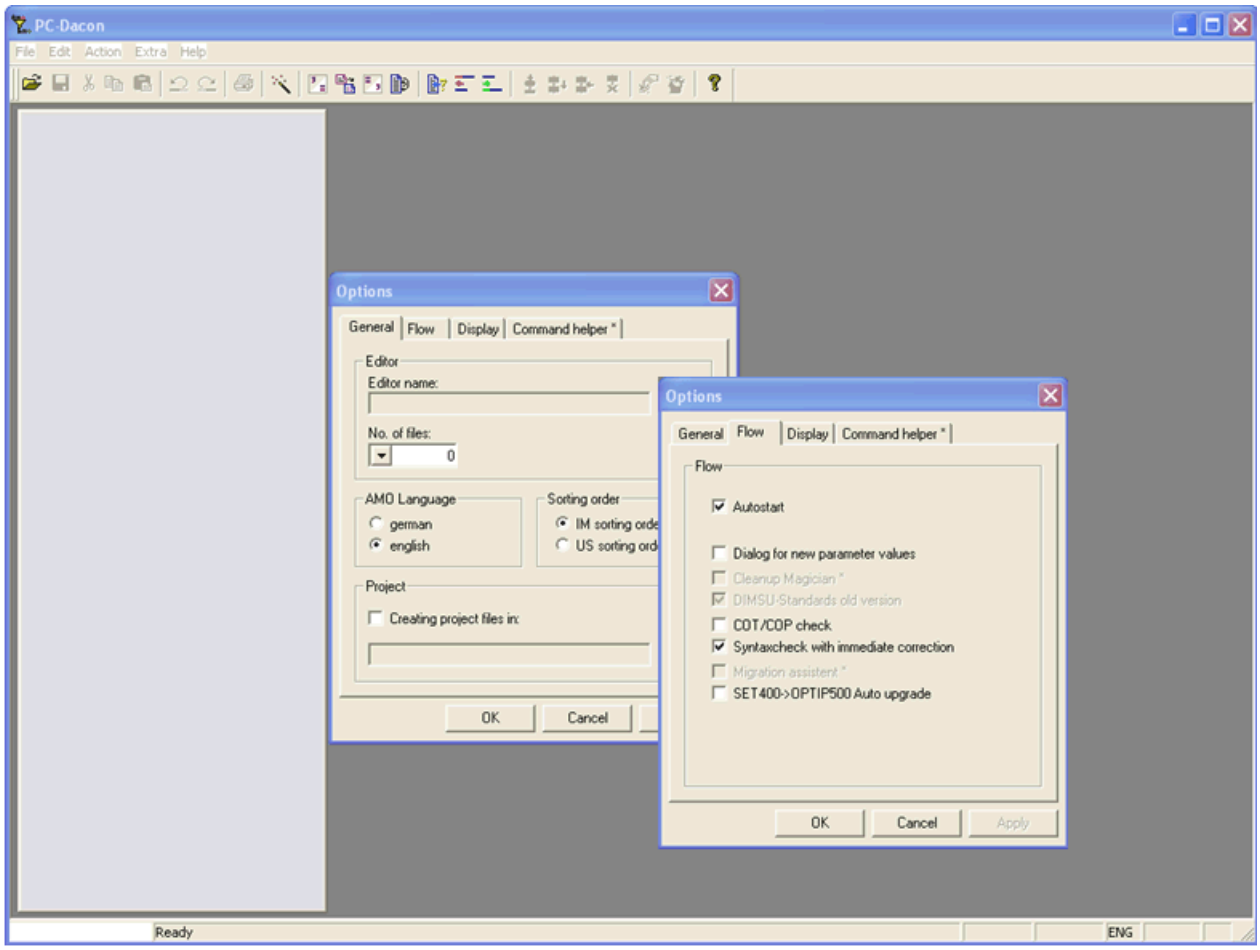
1. Check for the latest version on SWS and install as is (if you have an older version, de-install it first).



2. Start “Hicom one tool HiPath”, “HOT H” and select “upgrade (PC Dacon)”.

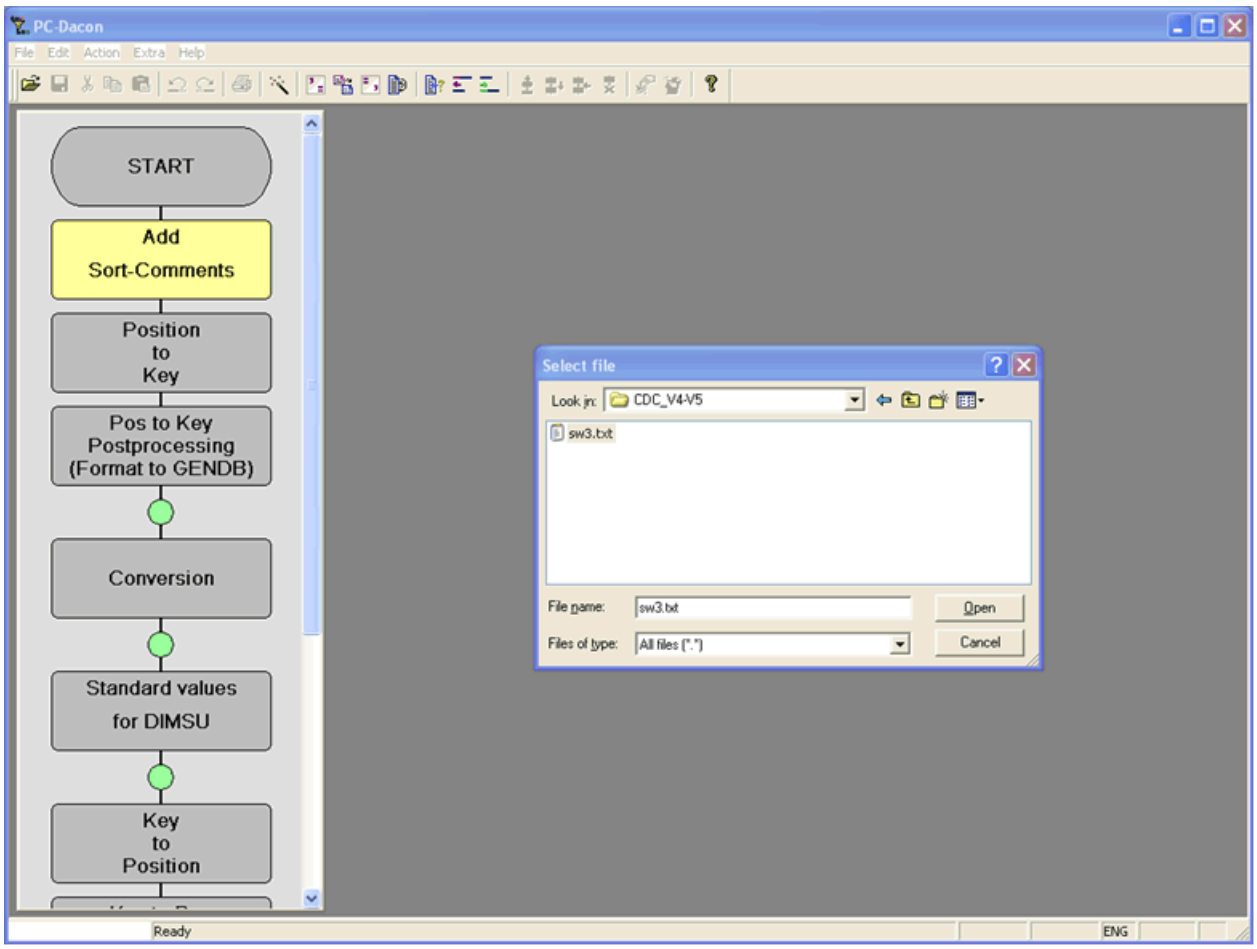


3. In the main menu select **Extra**, **Options…**
   - In the **General** tab set **AMO Language** to **English** and
   - activate the options as shown below in the **Flow** tab.
   - Apply the changes.

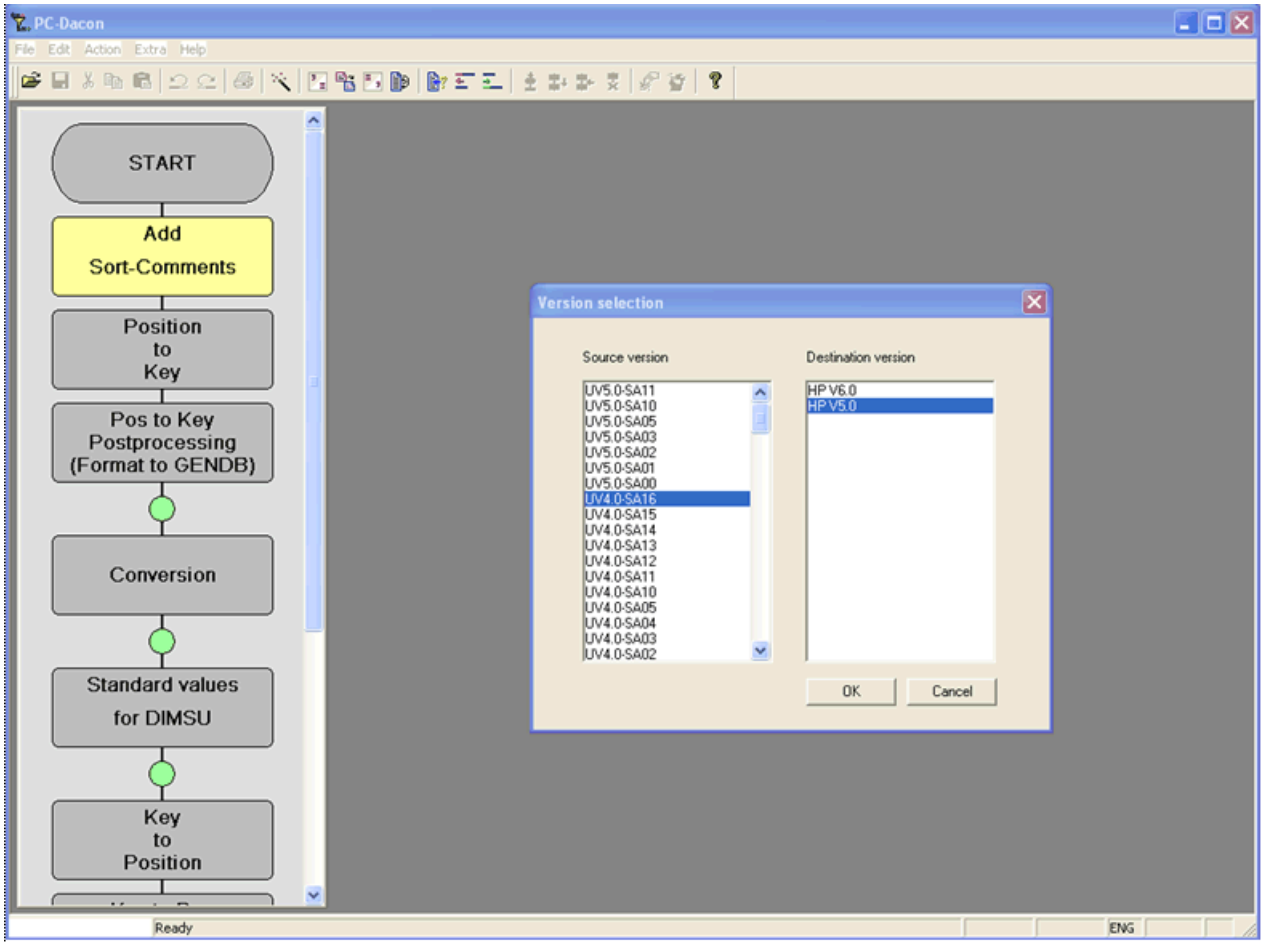


C.3 Upgrade to HiPath Version 5

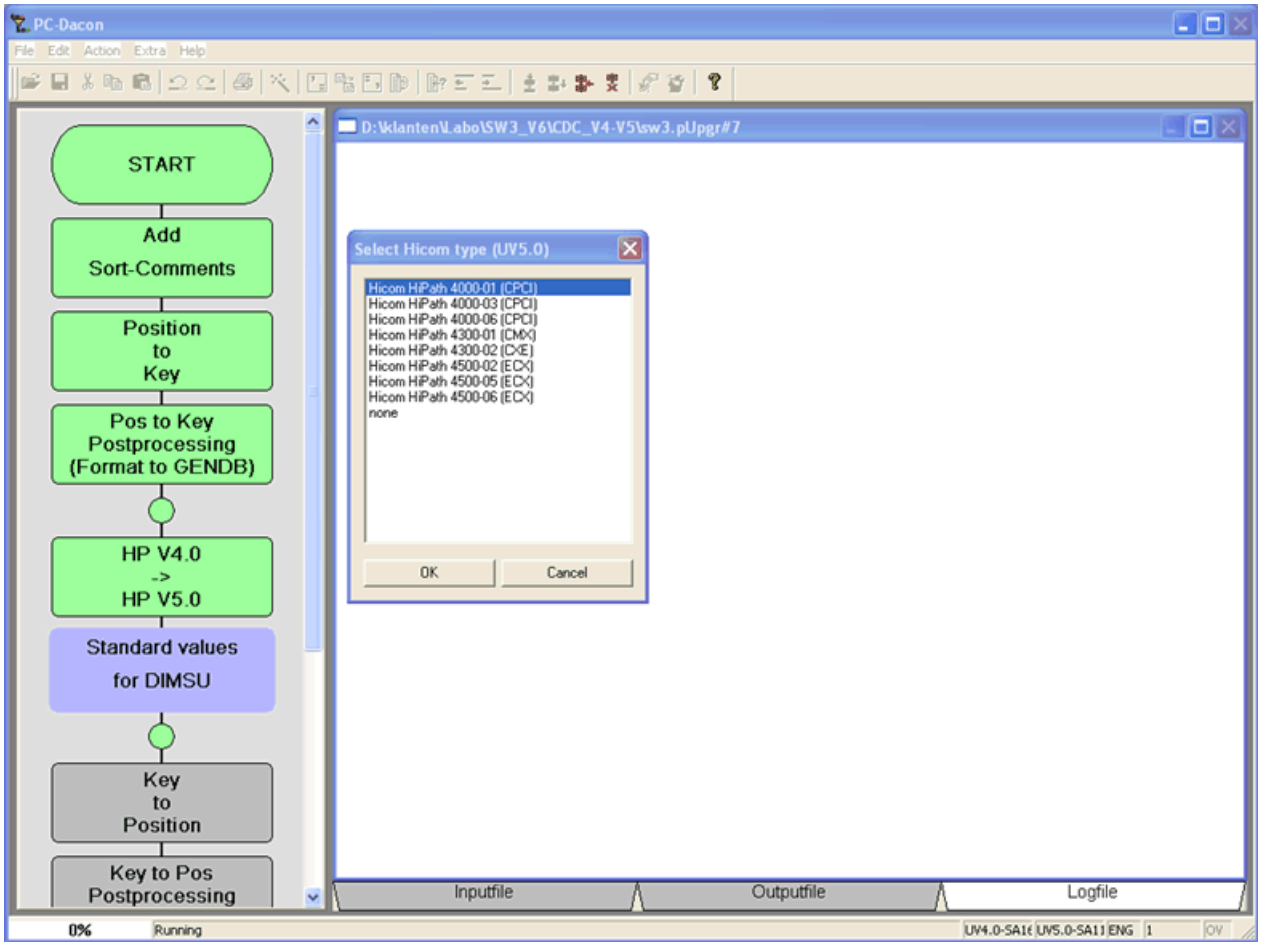
1. In the main menu select **Action**, **Guided Upgrade** or press **F2**.
   Browse to the concerned folder and open the regen file.



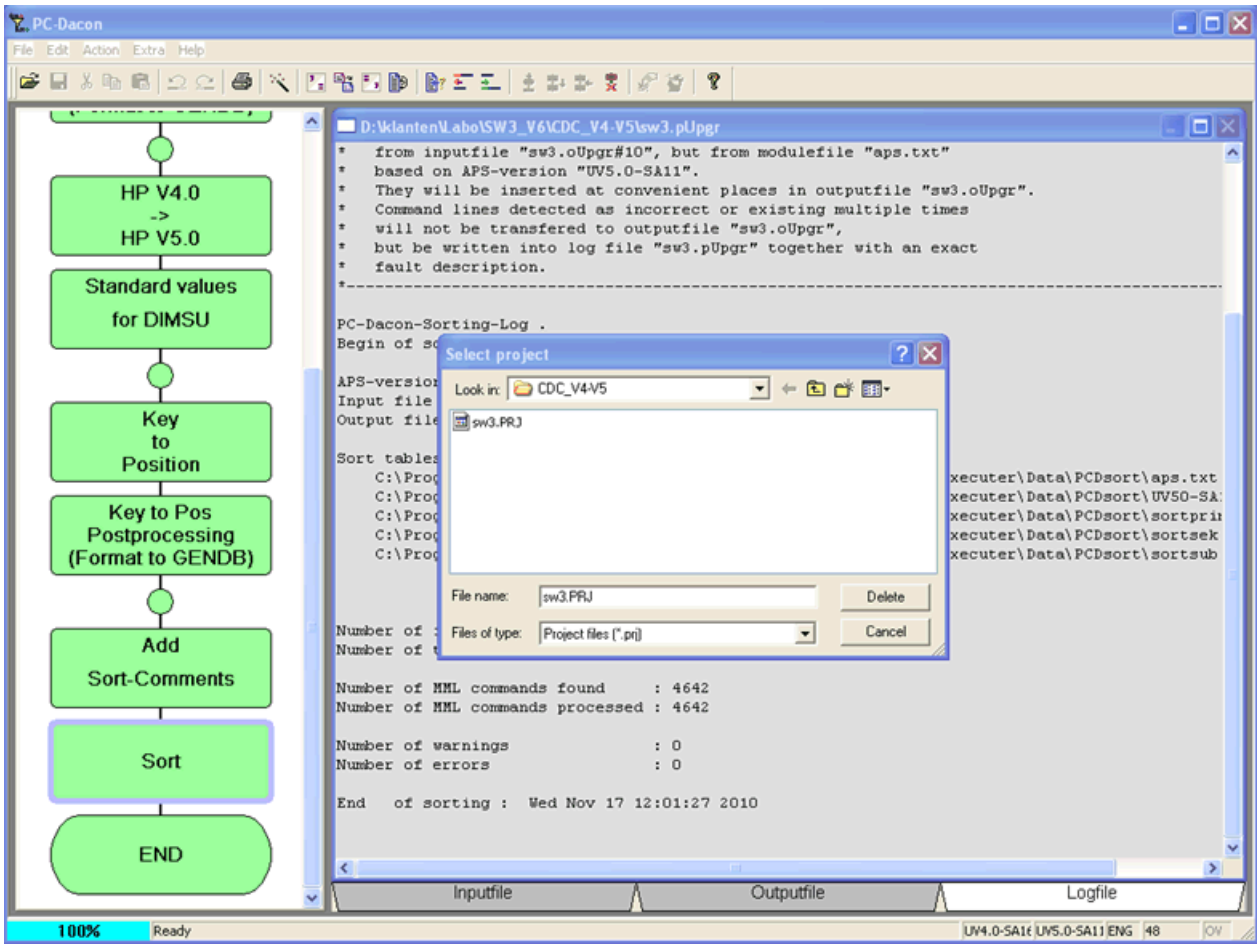
2. The source version will be set automatically. Set the destination version to V5 and click **OK**.



3. Check the information (see point one HW architecture) to determine the type of HiPath HW. Select the hardware and click **OK**.

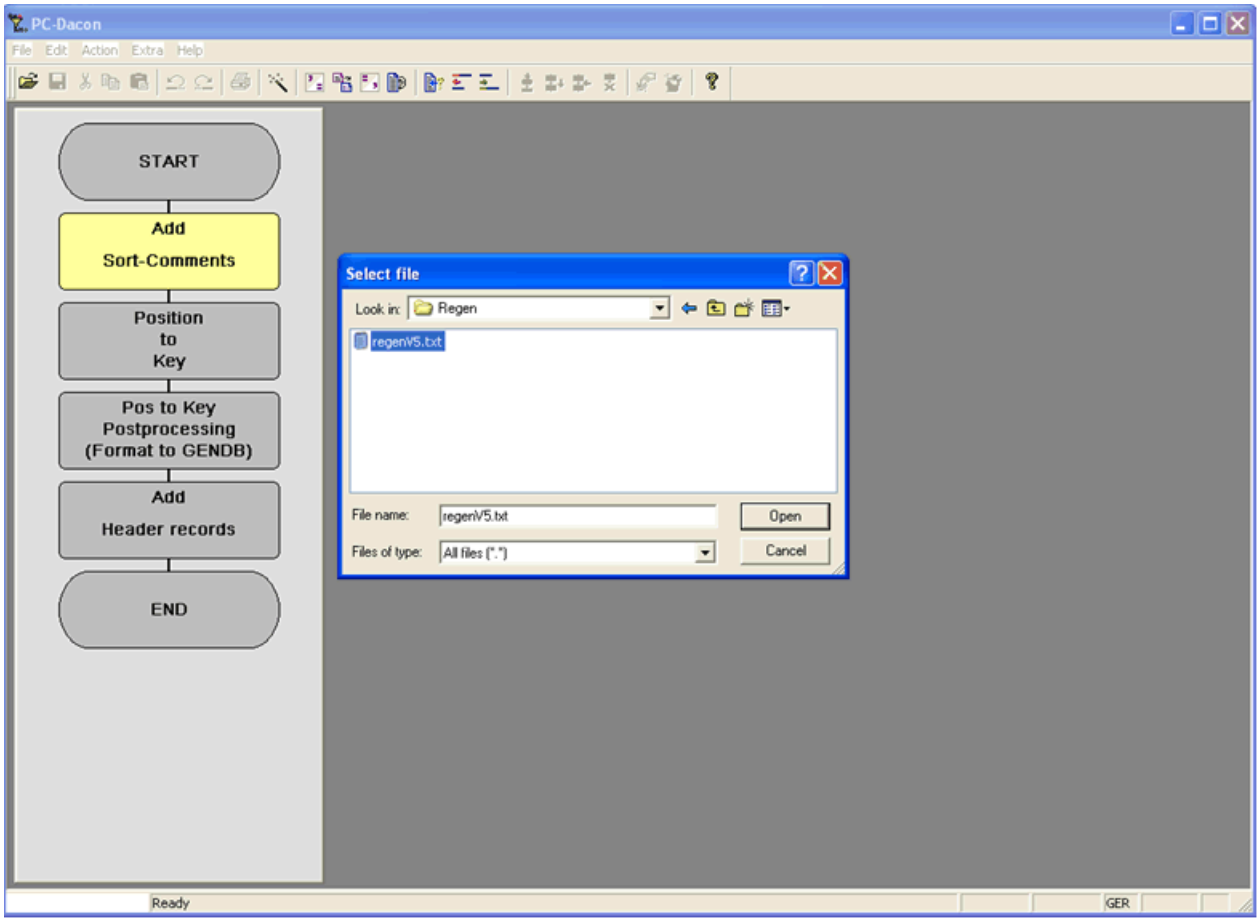


4. If this has been finished without errors, complete the procedure with deleting the project. This way you keep only your original file and the upgraded one. To do so, select in the main menu **File**, **Project**, **Delete** and click the **Delete** button.
   The file extention is `.oUpgr`.

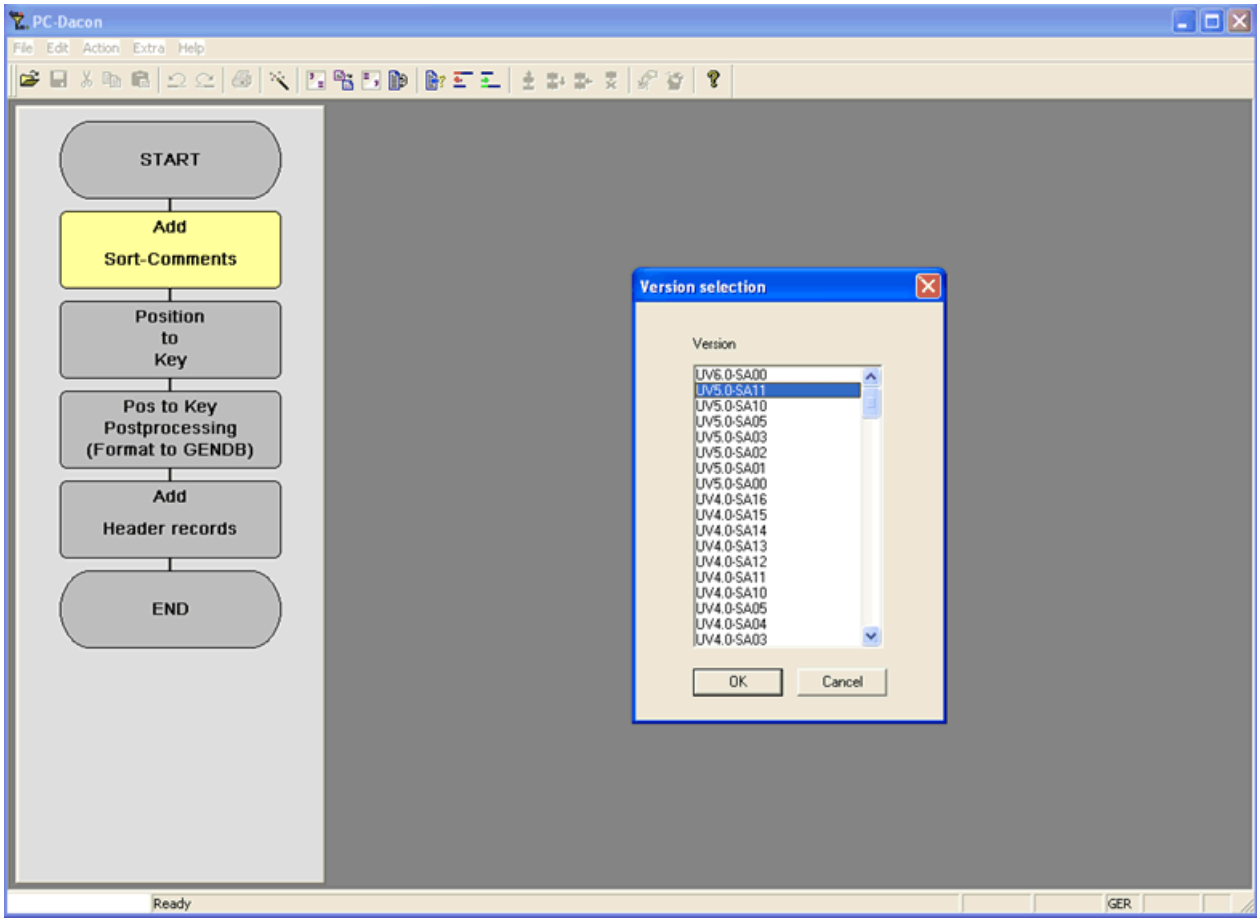


C.4 Converting from Position to Key

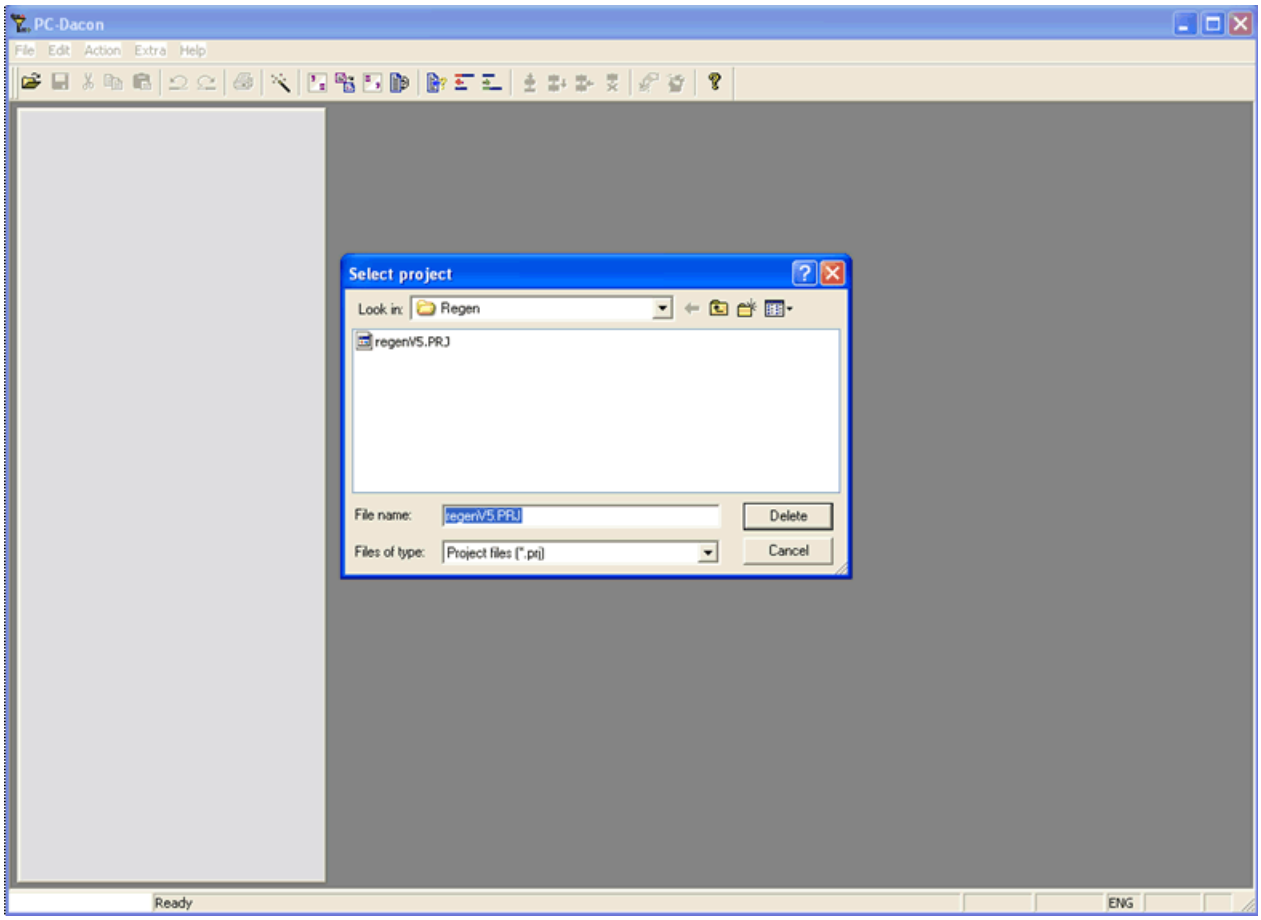
1. In the main menu select **Action**, **Position to key** or press **F3** and browse to the concerned regen file. If you made an upgrade, PC-Dacon will go directly to the respective file.



2. PC-Dacon will detect the corresponding version, click **OK** to start. A project will be created in the same folder as the regen file.



3. In the main menu select **File**, **Project**, **Delete** and delete the project. In this way only the original files and the position to key file will remain.
   The file will have as extention `.oPosKey`.



D Acronyms and Abbreviations

The following acronyms and abbreviations are used in this documentation:

Abbreviation	Meaning
ANI	Announced Number Indication
ANSI	American National Standards Institute
AT	Access Tandem
B2BUA	Back to Back SIP User Agent
BCAS	B-Channel Availability Signaling
BG	Business Group
BGL	Business Group Line
BLS	Back Level Support
BO	Branch Office
CAS	Channel Associated Signaling
CC	Country Code
WebCDC	Customer Data Collection
CDR	Call Detail Record
CID	Caller ID
CIDB	Calling Line Identification Delivery Blocking
CLI	Command Line Interface
CO	Central Office
Codec	Coder/Decoder
CoS	Class of service
CPG	Call Pickup Group
CPU	Call PickUp
CSTA	Computer Supported Telecommunications Application
CSTA	Computer Supported Telephony Application
DA	Directory Assistance
DB	Database
DD	Direct Dial
DDD	Direct Distance Dialing
DDE	Dialed Digit Extraction
DHCP	Dynamic Host Configuration Protocol
DID	Direct inward dialing
DN	Directory Number/LDAP Distinguished Name
DND	Do not Disturb
DNS	Domain Name System

Table 17 Abbreviations used in this document

Abbreviation	Meaning
EA	Equal Access
EAEO	Equal Access End Office
EP	End Point
EPP	End Point Profile
IETF	Internet Engineering Task Force
FG-D	Feature Group D
FIFO	First In, First Out
FNPA	Foreign Number Plan Assignment
FQDN	Fully Qualified Domain Name
GUI	Graphical User Interface
HNPA	Home Numbering Plan Assignment
HTB	Hierarchical Token Bucket
HTML	HyperText Markup Language
HTTP	HyperText Transfer Protocol
HTTPS	HyperText Transfer Protocol Secure
IAD	Integrated Access Device
ICMP	Internet Control Message Protocol
IMT	Inter-Machine Trunk
iNMC	Network Management Center
Int DD	International Direct Dial
Int OP	International Operator
IP	Internet Protocol
IS	Intelligent Services
ISDN	Integrated Services Digital Network
iSMC	Service Management Center
ISUP	ISDN User Part
ITU	International Telecommunications Union
kbps	Kilobits per second
LAC	Local Area Code
LAN	Local Area Network
LATA	Local Area Transport Access
LDAP	Lightweight Directory Access Protocol
LEC	Local Exchange Carrier
LIC	Line Interface Card
LIN	Location Identification Number
LNP	Local Number Portability
MCGCP	Media Gateway Control Protocol

Table 17 Abbreviations used in this document

Abbreviation	Meaning
MF	Multiple Frequency
MG	Media Gateway
MIB	Management Information Base
MLH	Multi-Line Hunt
MLHG	Multi-Line Hunt Group
MS	Media Server
msec	millisecond
MTP	Message Transfer Part
MTU	Maximum Transmission Unit
NAFO	Network Adapter Fail Over
NANP	North American Numbering Plan
NEM	Network Element Management
NFR	Non-Functional Requirements
NMC	Network Management Center
NPA	Network Performance Analyzer
NTP	Network Time Protocol
OM	Operational Measurements
OS	Operating System
OSB	OpenScape Branch
OSEE	OpenScape Enterprise Express
OSV	OpenScape Voice
PAC	Prefix Access Code
PBX	Private Branch eXchange
PFS	Perfect Forward Secrecy
PKI	Public Key Infrastructure
PNP	Private Numbering Plan
PP	Packetization Period
PPS	Permanent Presentation Status
PRI	Primary Rate Interface
PSTN	Public Switched Telephone Network
PSTN	Public Service Telephony Network
QoS	Quality of Service
RNX	Route-number index
RR	Resource Reservation
RTM	RTP Transaction Manager
RTP	Realtime Transport Protocol; Resilient Telco Platform
RTP	Resilient Telco Platform

Table 17 Abbreviations used in this document

Abbreviation	Meaning
RTCP	Real Time Control Protocol
RTT	Round Trip Time
SBC	Session Border Controller
SCCP	Signaling Connection Control Part
SCP	Service Control Point
SFTP	Secure File Transfer Protocol
SIP	Session Initiation Protocol
SIP-T	Session Initiation Protocol – Telephony
SM	Signaling Manager
SNMP	Simple Network Management Protocol
SOAP	Simple Object Access Protocol
SRV	Service
SS	Silence Suppression
SSH	Secure Shell
SVC	Service
SyBR	Backup/Restore
TCAP	Transactional Capabilities Application Part
TCP	Transmission Control Protocol
TCP/IP	Transmission Control Protocol/Internet Protocol
TDM	Time Division Multiplexing
TLS	Transparent LAN Service
TOS	Type of Service
UC	Unified Communications
UDP	User Datagram Protocol
UI	User Interface
UML	Unified Modeling Language
URI	Uniform Resource Identifier
URL	Uniform Resource Locator
USB	Universal Serial Bus
VLAN	Virtual Local Area Network
VoIP	Voice over Internet Protocol (Voice-over-IP)
VPN	Virtual Private Network
VRRP	Virtual Router Redundancy Protocol
WAN	Wide Area Network
WebCDC	Web based CDC Tool
WF	Work Flow
WSDL	Web Services Description Language

Table 17 Abbreviations used in this document

Abbreviation	Meaning
XPR	Xpressions

Table 17 Abbreviations used in this document

E Request Country Data Support

In order to request support for a country code that is not listed under the Country Code field in the Endpoints tab, please follow the procedure described below to open a WebCDC ticket:

1. Open the **Endpoints** tab and click on the **Show list of supported countries** button located in the upper right corner of the Endpoints tab area.
2. Download the country data template (in excel format) by pressing the **Country Data Template** button.
3. Fill in the required values for the desired country in the downloaded template.

   NOTE: The fields are described in Section 4.6, “Country Data Tab”.

4. Issue a WebCDC ticket providing the **Country Data Template**.

E.1 Manual edit of Country Data

IMPORTANT: Proceed with caution and only if you know what you are doing.

If support for this country is urgent you can manually edit the country data for this specific project in the **Country Data** tab. For details, please refer to Section 4.6, “Country Data Tab”.

NOTE: Any modification on this tab, will affect the current project and any clone project you create. Any other project that will be based on the export of the current project will be affected as well. It is strongly suggested that you reset country data to their default values once a WebCDC database update is provided.

Index

U

V

W