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| **L&T Technology Services** |
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| Site Manager Auditing & Reporting Tool (SMART)  User Guide  1.0 |
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| V.0 |

Site Manager Auditing & Reporting Tool (SMART)

SMART is a Centralized, Site Commissioning and Integration tool for the Samsung Radio Access Network Elements for various Customers and Network Platforms. This automates all the stages in Commissioning and integration such as Pre-Migration, Migration, Post-Migration.

SMART tool improves the usability and efficiency of the network operation engineers in the overall commissioning process and provide Real time progress and Automated reporting of the commissioning process.

* User Management: User Creation/Deletion, Password Management, Privilege Management.
* N/W Config: It will have all the System Manager details such as LSM, Sane Server or FTP Server.
* General config: It contains 3 tabs: NW Type, Customer Creation and General Settings.
* Audit Trail: Super admin & admin can access all the events and actions of all users of the tool.
* SMART Tool is divided into three major modules:
  + Pre-Migration: Migration process used to grow NE’s as per the input files provided.
  + Migration: Migration process used to commission the NEs.
  + Post Migration: Post-Migration process used to perform health check the NE’s.
* DB: Mongo DB and Maria DB is used for back-end storage.
* File Storage: The script outputs will be stored in the local system and its validated.
* Report/Result Generator: The Scripts output are validated and displayed to the user.

(a). Login with Defaultuser, user credentials:

Username: defaultuser,

Password: admin

Expected Result :: Default user successfully created with Super Administrator Role.

Default user can able to create only Super Administrator as a Role, in USER MANAGEMENT

Page giving all the necessary field values i.e., USER NAME, NAME,PASSWORD,CONFIRM

PASSWORD,ROLE,CUSTOMER NAME,PROGRAM NAME,EMAIL,VPN USER NAME,VPN PASSWORD,STATUS

and REMARKS.

Super Administrator has privilege to access All the pages i.e., CONFIGURATIONS, RULES, PRE MIGRATION, MIGRATION, POST MIGRATION, S & R

(b). Super Administrator can create Administrator,Commission Manager and Commission Engineer as a Role, under USER MANAGEMENT Page giving all the necessary field values i.e., USER NAME, NAME,PASSWORD,CONFIRM PASSWORD,ROLE,CUSTOMER NAME,PROGRAM NAME,EMAIL,VPN USER NAME,VPN PASSWORD,STATUS and REMARKS.

Super Administrator successfully created with Administrator,Commission Manager and Commission Engineer Role based on the CUSTOMER and PROGRAM NAME

To create PROGRAM NAME , N/W Type, Customer, NE Version and Program Templates

Administrator can access all the pages i.e., CONFIGURATIONS, RULES, PRE MIGRATION, MIGRATION, POST MIGRATION, S & R

Expected Result :: Super Admin as to create N/W TYPE, CUSTOMER,NE VERSION and GENERAL SETTINGS

Successfully create N/W Type by providing values like 4G,5G...

Successfully create CUSTOMER by providing values

Customer Name,Customer Short Name,Logo, N/W

Type,Program Name,Program Description,Status & Source Program

Successfully create NE version by providing values Program Name,

NE Version,Release Version Status.

In General Config, General Settings page,

Lets assume creating a new Customer ex: VZN-4G-VLSM with proper Templates

CIQ\_VALIDATE\_TEMPLATE,CHECK\_LIST\_VALIDATE\_TEMPLATE,ENB\_MENU\_TEMPLATE ,PARAMETERS\_VALIDATE\_TEMPLATE ,SCRIPT\_STORE\_TEMPLATE,PROMPT\_TEMPLATE,CIQ\_FILE\_PATH ,CIQ\_NAME\_TEMPLATE ,SCRIPT\_FILE\_PATH,SCRIPT\_NAME\_TEMPLATE

(c) Administrator can create Commission Manager and Commission Engineer as a Role, under USER MANAGEMENT Page giving all the necessary field values i.e., USER NAME, NAME,PASSWORD,CONFIRM PASSWORD,ROLE,CUSTOMER NAME,PROGRAM NAME,EMAIL,VPN USER NAME,VPN PASSWORD,STATUS and REMARKS.

Administrator successfully created with Commission Manager and Commission Engineer Role

(d) Commission Manager can create Commission Engineer as a Role, under USER MANAGEMENT Page giving all the necessary field values i.e., USER NAME, NAME,PASSWORD,CONFIRM PASSWORD,ROLE,CUSTOMER NAME,PROGRAM NAME,EMAIL,VPN USER NAME,VPN PASSWORD,STATUS and REMARKS.

NOTE: 1. Commission Engineer does not have access to CONFIGURATIONS page, so cannot

create any User details, N/W Config details and General settings details, rest all other

Users has access to CONFIGURATIONS, RULES, PRE MIGRATION, MIGRATION,

POST MIGRATION, S & R pages

2. To Create any program NE\_CONFIG\_TYPE\_LIST, GROW\_CONSTANTS &

PROGRAM\_GENERATE\_FILE\_INFO should be add data manually into Mariadb

Database.

3. To Generate files RRH\_ALU\_INFO & VLSM\_MME\_IP\_INFO data should be added

manually into the Database

4. Super Administrator has all the rights on each and every CUSTOMER NAME and

PROGRAM NAME

5 . Administrator has rights on specific CUSTOMER NAME and All PROGRAM

NAME

6. Commission Manager and Commission Engineer has rights on specific CUSTOMER

NAME and All PROGRAM NAME

Super Administrator, Administrator, Commission Manger can create N/W Config details for a specific Programs by providing NE TYPE, MARKET, NE NAME, NE VERSION, IP ADDRESS, RS IP, USER NAME, PASSWORD, CONFIRM PASSWORD, LOGIN TYPE & STATUS.

Audit Trail: Super administrator, Administrator, Commission Manger can access all the events and actions performed on the tool.

**Users**

Super Administrator, Administrator, Commission Manager, Commission Engineer

Privileges granted to each user of the SMART Tool is given below:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| User Role | Customer Specific | Program Name | Configurations | Rules | Pre-Migration | Migration | Post Migration | Scheduling |
| Default User | NA | NA | Yes | No | No | No | No | No |
| Super Administrator | All | All | Yes | Yes | Yes | Yes | Yes | Yes |
| Customer Administrator | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Commission Manager | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Commission Engineer | Yes | Yes | No | Yes | Yes | Yes | Yes | No |

**SYSTEM CONFIGURATION [User Perspective]**

|  |  |  |
| --- | --- | --- |
| Entity | Name | Version |
| OS | Windows/Linux | Windows 7+ / Ubuntu 14.x + |
| Browsers | Chrome, IE, | Chrome: 49+  IE: 9+ |

**GETTING STARTED**

SMART Tool can be accessed from any computer where it has access to the server at “https://IP Address:Port Number” in any Web Browser (Best viewed in Chrome). Users will be directed to the Login screen through the URL.

**LOGIN**

User has to enter the Login credentials, provided based on user Roles and the features available will vary based on the user roles assigned by the super admin. Login screen gives an option to Reset the forgotten password.

Users status can be Active or Inactive. Inactive users cannot be logged in to the application.

**DASHBOARD**

Dashboard displays details such as number of ‘customers supported’ & ‘Number of Active users’

There are two Sections for dashboard

1. C&I Details
2. Smart Tool Health

**C&I Details**

A bar graph which displays the overall commissioning report/summary of all the NE's commissioned by each customer

A Bar graph which displays the per market commissioning report/summary based on the customer selection

**Smart Tool Health**

A Pie chart which displays the Disk usage

A Pie chart which displays the Memory usage

Displays CPU usage in a Tabular Form

**CONFIGURATIONS**

Configurations page mainly consists of

User Management

User Management allows user to create, update and delete the user. Multiple users can be created based on the access privilege. By default, a login will be given (default user), which can be used to create “Super Administrator”.

Functions

Create New - Provides the functionality to create new user.

Edit - Provides user the functionality to modify user details.

Delete - Provides user the functionality to delete specific user details.

Save - Provides user the functionality to save the user details.

Cancel - Provides user the functionality to cancel the specific operation which is being performed

**Parameter Details**

|  |  |
| --- | --- |
| NAME | DESCRIPTION |
| USER NAME | This parameter represents the user name of the specific users. |
| NAME | This parameter represents the first name of the user. |
| PASSWORD | This parameter represents the password of the user. |
| CONFIRM PASSWORD | This parameter represents the confirm password to the user. |
| ROLE | This parameter represents the role of the specific user. |
| CUSTOMER NAME | This parameter represents the customer name. |
| PROGRAM NAME | This parameter represents the program name for specific customer. |
| EMAIL | This parameter represents the email of the user. |
| VPN USERNAME | This parameter represents the VPN username. |
| VPN PASSWORD | This parameter represents the password of the VPN username. |
| STATUS | This parameter represents the state of user whether ACTIVE or INACTIVE. |
| REMARKS | This parameter represents the remarks regarding user. |

**N/W Config**

N/W Configuration can create multiple configurations with inputs such as Program name, NE Type, NE Name, NE Version, IP Address, Username and Password to acquire connection with SM. User can import the details of SM present in the excel file through the ‘IMPORT’ functionality. User can export all the details of SM present in the tool through the ‘EXPORT’ functionality.

Functions

Create New - Provides the functionality to create new network configuration.

Search - Provides user the functionality to search the required details based on criteria.

Edit - Provides user the functionality to update the specified record.

Delete - Provides user the functionality to delete specific record details.

Save - Provides user the functionality to save the details.

Cancel - Provides user the functionality to cancel the specific operation which is being performed

Import - Provides user the functionality to import from excel and save it into database.

Appropriate information should be provided to import specific excel database.

Export - Provides user the functionality to export the data to Excel from database.

**Parameter Details**

|  |  |
| --- | --- |
| NAME | DESCRIPTION |
| PROGRAM NAME | This parameter represents the program name for a specified customer. |
| NE TYPE | This parameter represents the NE Type. |
| MARKET | This parameter represents the name of market. |
| NE NAME | This parameter represents the NE name. |
| NE VERSION | This parameter represents the version of NE. |
| IP ADDRESS | This parameter represents the IP address of the server. |
| RS IP | This parameter represents the RS Ip. |
| USERNAME | This parameter represents the username. |
| PASSWORD | This parameter represents the password. |
| CONFIRM PASSWORD | This parameter represents the confirm password. |
| LOGIN TYPE | This parameter represents the type of connection with server. |
| STATUS | This parameter represents the state of user whether ACTIVE or INACTIVE. |
| REMARKS | This parameter represents the remarks regarding user. |

**General Config**

General Configuration provides 4 tabs.

1. N/W Type - Users can create the Network Type for its customers

2. Customer - User can create a new customer or modify the existing customer based on program name

3. NE Version - User can create NE Version based on program names.

4. Settings - Settings Contain the configurations like session time out, Tool Deployment, History Data and Template

Functions

Create New - Provides the functionality to create new record.

Add - Provides the functionality to add the new record.

Edit - Provides user the functionality to update a specific record.

Delete - Provides user the functionality to delete specific record based on selection.

Save - Provides user the functionality to save the details.

Cancel - Provides user the functionality to cancel the specific operation which is being performed

**Parameter Details**

|  |  |
| --- | --- |
| NAME | DESCRIPTION |
| N/W TYPE | This parameter represents the N/W Type for its customers |
| CUSTOMER NAME | This parameter represents the name of the customer. |
| CUSTOMER SHORT NAME | This parameter represents the short name of the customer. |
| LOGO | This parameter represents logo for a customer. |
| PROGRAM NAME | This parameter represents the program name for a customer. |
| PROGRAM DESCRIPTION | This parameter represents the description for a program. |
| STATUS | This parameter represents the state of customer whether ACTIVE or INACTIVE. |

**Audit Trail**

Audit Trail Screen provides the functionality to access all the events and actions that were performed along with the description and timestamp.

Functions

Search - Provides user the functionality to search the required data based on criteria.

**Parameter Details**

|  |  |
| --- | --- |
| NAME | DESCRIPTION |
| EVENT NAME | This parameter represents the Event Name |
| EVENT SUB NAME | This parameter represents the Event Sub Name |
| ACTION | This parameter represents the type of the action performed |
| USERNAME | This parameter represents the name of the user who has performed that particular action |
| FROM DATE | This parameter represents the selection of from date |
| TO DATE | This parameter represents the selection of to date. |

**RULES**

Rules feature supports to create multiple command rules and file rules to run the uploaded scrips in the system based on a selected program. It also supports to create multiple use cases with the help of rules to run the scripts with an order of execution. It consists of Scripts Store, Command Rule Builder, File Rule Builder & Use Case Builder.

**Script Store**

All commands that will be executed during the commissioning process needs to be uploaded so that it can be used further by the command rule builder and use case builder.

All the scripts are segregated according to

* Pre-Migration
* Migration
* Post Migration.

All the scripts that are needed for commissioning process are uploaded and saved according to which phase the script shall be used.

Script Store consists of two options:

1. Upload Script: All existing command scripts are uploaded
2. Search: Existing commands can be searched based on Filename, state and uploaded by criteria.

Functions

Edit - Provides user the functionality to update a specific record.

Delete - Provides user the functionality to delete specific record based on selection.

Save - Provides user the functionality to save the details.

Cancel - Provides user the functionality to cancel the specific operation which is being performed

**Parameter Details**

|  |  |
| --- | --- |
| NAME | DESCRIPTION |
| UPLOAD SCRIPT | This parameter represents to upload Script files to the system |
| SCRIPT TYPE | ShellScript & BatchFiles are the two types |
| TERMINAL | On which terminal the script should be executed (LSM / NE) |
| UTILITY | After selecting the terminal on which utility the scipt should be executed.(eg : bash, cli, confd\_cli) |
| SM VERSION | This parameter represents the LSM Version details for a specific program name. |
| SM NAME | This parameter represents name of the LSM details for a particular program name |

**Command Rule Builder**

Command Rule Builder will build rules to validate the commands output. Any number of rules can be added.

All the command rules are segregated according to

* Pre-Migration,
* Migration:
  1. Pre-Check
  2. Commission
  3. Post Check
* Post Migration.
  1. RAN ATP
  2. Audit

Two types of rules can be created CLI/SHELL and XML. User can create/update/delete the command rules. Each command rule will be saved into the tool database.

Command Rule Builder consists of two options:

1. Create New: To create new command rules
2. Search: Existing commands can be searched based on Rule Name, Command Name, Operand 1, Operand 2, Prompt and Rule Status by criteria.

Functions

Search - Provides user the functionality to search the required details based on criteria

Create - Provides user the functionality to create new command rule based on a specific program

Update - Provides user the functionality to update any existing command rules

Delete - Provides user the functionality to delete any command rules from the system unless it is associated with any use cases.

Save - Provides user the functionality to save the rules to database.

Cancel - Provides user the functionality to cancel the specific operation which is being performed

**Parameter Details**

|  |  |
| --- | --- |
| NAME | DESCRIPTION |
| RULE NAME | This parameter represents Rule Name |
| COMMAND NAME | This parameter represents Command name for a specific Rule |
| OPERAND 1 | It is the first parameter/operand /value that will be searched from the command output. |
| OPERAND 1 COLUMN NAME | This field will be used in table format output. this is the first column name in which operand one should be searched |
| OPERATOR | Operator is the condition applied on the output |
| OPERAND 2 | It is the second parameter/operand /value that will be searched from the command output. |
| OPERAND 2 COLUMN NAME | This field will be used in table format output. this is the second column name in which operand one should be searched |
| PROMPT | Promt is used to divide the ouput put of each command |
| STATUS | This parameter represents the status of the rule whether it is fail/pass |
| ROOT NAME | Root key of the xml |
| SUB ROOT NAME | sub root of the xml |
| ROOT KEY | if any parameters are there in sub root that paramter key is to be given |
| ROOT VALUE | value of the sub root key should be given |
| ELEMENT NAME | name of the tag in wich you want to verify the output |
| ELEMENT DETAILS | value to check |

File Rule Builder

File Rules are created to validate the log file contents.

All the File Rules are segregated according to

* Pre-Migration,
* Migration:
  1. Pre-Check
  2. Commission
  3. Post Check
* Post Migration.
  1. RAN ATP
  2. Audit

File Rule Builder consists of two options:

1. Create New: To create new file rules
2. Search: Existing commands can be searched based on Rule Name, File Name, Search Parameter and Status by criteria.

Functions

Search - Provides user the functionality to search the required details based on criteria

Create - Provides user the functionality to create new command rule based on a specific

program

Update - Provides user the functionality to update any existing command rules

Delete - Provides user the functionality to delete any command rules from the system unless it

is associated with any use cases.

Save - Provides user the functionality to save the rules to database.

Cancel - Provides user the functionality to cancel the specific operation which is being

performed

**Parameter Details**

|  |  |
| --- | --- |
| NAME | DESCRIPTION |
| RULE NAME | This parameter represents Rule Name |
| FILE NAME | This parameter represents Command name for a specific Rule |
| SEARCH PARAMETER | It is the parameter that will be searched from the file. |
| STATUS | This parameter represents the status of the rule whether it is fail/pass |

Use Case Builder

Use case will be created using the combination of multiple command rules, file rules or scripts which will be executed according to the execution order. For analysis if a set of commands should be executed that will be built as a single use case. With respect to different user requirements we will be making different use case which will be having a set of commands or scripts.

All the command rules are segregated according to

* Pre-Migration,
* Migration:
  + Pre-Check
  + Commission
  + Post Check
* Post Migration.
  + RAN ATP
  + Audit

Use Case Builder consists of two options:

1. Create New: To create new use cases
2. Search: Existing commands can be searched based on Use Case Name, SM Version, SM Name and Created by criteria.

Functions

Search - Provides user the functionality to search the required details based on criteria

Create - Provides user the functionality to create new command rule based on a specific

program

Update - Provides user the functionality to update any existing command rules

Delete - Provides user the functionality to delete any command rules from the system unless it

is associated with any use cases.

Save - Provides user the functionality to save the rules to database.

Cancel - Provides user the functionality to cancel the specific operation which is being

performed

**Parameter Details**

|  |  |
| --- | --- |
| NAME | DESCRIPTION |
| USECASE NAME | This parameter represents Rule Name |
| SM VERSION | This parameter represents the LSM/VLSM Version details for a particular program name. |
| SM NAME | This parameter represents name of the LSM/VLSM details for a particular program name |
| EXECUTION SEQUENCE | Sequence in which the rule executes |

**PRE-MIGRATION**

Retrieve CIQ

Retrieve CIQ provides functionalities to upload required files using .xlsx,.tar.gz,.7z,.zip and .txt options. It supports the functionality to upload CIQ file in xlsx format, Script file in zip, tar.gz, 7z, txt format and Checklist in xlsx format.

Retrieve CIQ mainly provides two functionalities

1. Upload - To Upload a CIQ, Script file and Check list into the tool

2. Fetch - To Fetch CIQ and Script file from the server to tool

Functions

Search - Provides user the functionality to search the required details based on criteria

Update - Provides user the functionality to update any CIQ details related information

Delete - Provides user the functionality to delete specific CIQ details.

Save - Provides user the functionality to save the data to database.

Cancel - Provides user the functionality to cancel the specific operation which is being performed

**Parameter Details**

|  |  |
| --- | --- |
| NAME | DESCRIPTION |
| UPLOAD CIQ | This parameter represents the CIQ file to upload which contains eNB IDs and markets. |
| UPLOAD SCRIPT | This parameter represents the Script file to upload which contains eNB IDs.  . |
| UPLOAD CHECKLIST | This parameter represents the Checklist file to upload. |
| REMARKS | This parameter represents the remarks of the specific CIQ. |
| CIQ SERVER NAME | This parameter represents the name of server from which the tool should fetch CIQ file |
| CIQ SERVER IP ADDRESS | This parameter represents the ip address of server from which the tool should fetch CIQ file |
| SCRIPT SERVER | This parameter represents the name of server from which the tool should fetch script file |
| SCRIPT SERVER IP ADDRESS | This parameter represents the ip address of server from which the tool should fetch script file |

**Check List**

Check List Screen provides functionalities to display the details of uploaded checklist.

Functions

Check List Screen displays the tabs dynamically present in the checklist file which is uploaded in the retrieve CIQ page.

Search - Provides user the functionality to search the required details based on criteria

**Parameter Details**

|  |  |
| --- | --- |
| NAME | DESCRIPTION |
| SELECT DATE RANGE | This parameter represents the date range of past seven days. |
| CIQ NAME | This parameter represents the name of the CIQ file  . |
| CHECKLIST | This parameter represents the name of the checklist |

**NE Mapping**

NE Mapping Screen provides functionalities to display the details of NE from the CIQ file which is uploaded in the retrieve CIQ page. The data will get loaded dynamically when a CIQ file is uploaded in the retrieve CIQ page. By default, the page displays the past seven days data.

Functions

Search - Provides user the functionality to search the required details based on criteria

Update - Provides user the functionality to update any NE details related information

Save - Provides user the functionality to save the data to database.

Cancel - Provides user the functionality to cancel the specific operation which is being performed

**Parameter Details**

|  |  |
| --- | --- |
| NAME | DESCRIPTION |
| SELECT DATE RANGE | This parameter represents the date range of past seven days. |
| NE ID | This parameter represents NE ID of a CIQ file |
| NE CONFIG TYPE | This parameter represents the type of NE |

**RAN Config**

RAN Config Screen provides functionalities to display the details of particular NE for a CIQ file. By default, the page displays the past seven days data.

RAN Config provides two tabs

1. CIQ - Displays the data based on the CIQ selected

2. NE’S - Displays the data based on the NE selected for a CIQ

RAN Config mainly provides two functionalities

1. Validate - Validates the CIQ file data with the program template

2. Generate - Generates the CIQ file data

Functions

Search - Provides user the functionality to search the required details based on criteria.

Update - Provides user the functionality to update any NE details related information.

Clone - Provides user the functionality to clone a row data in the UI for editing.

Delete - Provides user the functionality to delete the specific record.

Save - Provides user the functionality to save the data to database.

Cancel - Provides user the functionality to cancel the specific operation which is being performed

**Parameter Details**

|  |  |
| --- | --- |
| NAME | DESCRIPTION |
| SELECT DATE RANGE | This parameter represents the CIQ file to upload which contains eNB IDs and markets. |
| CIQ NAME | This parameter represents the name of the CIQ file. |
| NE NAME | This parameter represents the NE for a particular CIQ file. |

**Generate**

Generate Screen provides functionalities to generate and validate the CIQ file data.

Generate mainly provides two functionalities

1. Validate - Validates the CIQ file data with the program template

2. Generate - Generates the Commissioning Script/ENV/Grow Template based on the selection

Generate feature supports to generate three types of files

1. Commissioning Script - Generates the vbs file

2. ENV - Generates the txt file

3. Grow Template - Generates the csv file

Functions

Search - Provides user the functionality to update the required details based on criteria

Update - Provides user the functionality to update any NE details related information.

Delete - Provides user the functionality to delete the records.

Mail - Provides user the functionality to send a mail to the user.

Save - Provides user the functionality to save the data to database.

Cancel - Provides user the functionality to cancel the specific operation which is being performed

**Parameter Details**

|  |  |
| --- | --- |
| NAME | DESCRIPTION |
| SELECT DATE RANGE | This parameter represents the CIQ file to upload which contains eNB IDs and markets. |
| CIQ NAME | This parameter represents the name of the CIQ file. |
| NE NAME | This parameter represents the NE for a particular CIQ file. |
| REMARKS | This parameter represents the remarks of the specific script file. |

**MIGRATION**

Migration is used to commission the NEs. Commissioning includes multiple steps.

Each step may execute multiple commands or scripts and the commissioning steps may vary as per the customer with respect to the PROGRAM

Migration will run the selected use cases based on the selected PROGRAM NAME.

1. Use case will get executed based on the execution sequence number.
2. All the scripts in use case also will be executed based on the execution sequence number.
3. Rules will be applied on the script output based on command occurrence.
4. All the use case will get executed on the selected network element and the output will be captured from all the network element type.

Migration Page will list all the use cases which are basically the commissioning steps.

Migration is divided into three steps:

* PRE-CHECK
* COMMISSION
* POST CHECK

User can select any use cases and execute them in sequence.

User can run the Use Cases by providing SM VERSION, SM NAME, CIQ and NE NAME details.

Note: Use cases should be created separately for PRE CHECK, COMMISSION and POST CHECK under RULES Page.

Functions

RUN - Provides user the functionality to run the use case provided in the pre

check, Commission and Post check.

GENERATE - Provides user the functionality to Generate for created Use case

provided in the pre-check, Commission and Post check.

CHECK - Provides user the functionality to Check the connection based on the SM

CONNECTION Version and SM Name provided in the pre check, Commission and Post check

SEARCH - Provides user the functionality to Filter based on Name, SM Version, SM

Name, CIQ and NE name

DOWNLOAD LOGS - Provides user the functionality to download the logs after run test

executed

RUNNING LOGS - Provides user the functionality to see the logs currently when it is

running

CHECK LIST - Provides user the functionality to see the checklist for the

uploaded CIQ File wrt Program Name

VIEW - Provides user the functionality to view the Report whether it is

pass or fail and Script for which use case and script uploaded

DELETE - Provides user the functionality to delete Run Test

**Parameter Details**

|  |  |
| --- | --- |
| NAME | DESCRIPTION |
| NAME | This parameter represents the name of the Run Test. |
| SM VERSION | This parameter represents the LSM/VLSM Version details for a particular program name. |
| SM NAME | This parameter represents name of the LSM.VLSM details for a particular program name |
| CIQ | This parameter represents the CIQ file which is uploaded for a particular program name. |
| NE NAME | This parameter represents the name of the EnodeB for a particular program name. |
| USE CASE | This parameter represents the Use case which is created by user. |

**POST MIGRATION**

Post Migration is used to health check the NE’s. For health check, we maybe executing set of command or set of scripts.

Post Migration Page will list all the use cases which the commissioning steps are basically.

Post Migration is divided into Two steps:

1. RAN ATP
2. Audit

User can select any use cases and execute them in sequence.

User can run the Use Cases by providing SM VERSION, SM NAME, CIQ and NE NAME details.

**RAN ATP**

User shall be able to create a RAN ATP based on SM Version, SM Name, CIQ, NE Name, Use Case and Run it.

Functions

RUN - Provides user the functionality to run the use case provided in the pre

check, Commission and Post check.

CHECK - Provides user the functionality to Check the connection based on the SM

CONNECTION Version and SM Name

SEARCH - Provides user the functionality to Filter based on Name, SM Version, SM

Name, CIQ and NE name

DOWNLOAD LOGS - Provides user the functionality to download the logs after run test

executed

RUNNING LOGS - Provides user the functionality to see the logs currently when it is

running

CHECK LIST - Provides user the functionality to see the checklist for the

uploaded CIQ File with respect to Program Name

VIEW - Provides user the functionality to view the Report whether it is

pass or fail and Script for which use case and script uploaded

Delete - Provides user the functionality to delete Run Test

**Parameter Details**

|  |  |
| --- | --- |
| NAME | DESCRIPTION |
| NAME | This parameter represents the name of the Run Test. |
| SM VERSION | This parameter represents the LSM Version details for a particular program name. |
| SM NAME | This parameter represents name of the LSM details for a particular program name |
| CIQ | This parameter represents the CIQ file which is uploaded for a particular program name. |
| NE NAME | This parameter represents the name of the EnodeB for a particular program name. |
| BAND NAME | This parameter represents the band name of the selected Enodeb id’s which is created by user. |
| USE CASE | This parameter represents the use case which is created by user. |
| INPUT FILE | This parameter represents the File to be import to run RAN ATP test. |

**AUDIT**

User can audit all the events being carried out. Before auditing, user can test the connection by clicking on “Check Connection’

Functions

RUN - Provides user the functionality to run the use case provided in the pre

check, Commission and Post check.

CHECK CONNECTION - Provides user the functionality to Check the connection based on the SM

Version and SM Name

SEARCH - Provides user the functionality to Filter based on Name, SM Version, SM

Name, CIQ and NE name

DOWNLOAD LOGS - Provides user the functionality to download the logs after run test

executed

RUNNING LOGS - Provides user the functionality to see the logs currently when it is

running

CHECK LIST - Provides user the functionality to see the checklist for the

uploaded CIQ File with respect to Program Name

VIEW - Provides user the functionality to view the Report whether it is

pass or fail and Script for which use case and script uploaded

Delete - Provides user the functionality to delete Run Test

**Parameter Details**

|  |  |
| --- | --- |
| NAME | DESCRIPTION |
| NAME | This parameter represents the name of the Run Test. |
| SM VERSION | This parameter represents the LSM Version details for a particular program name. |
| SM NAME | This parameter represents name of the LSM details for a particular program name |
| CIQ | This parameter represents the CIQ file which is uploaded for a particular program name. |
| NE NAME | This parameter represents the name of the EnodeB for a particular program name. |
| USE CASE | This parameter represents the Use case which is created by user. |

**SITE DATA**

Site data supports the user to pack the entire details of a specific eNB from input to output and allows to download the pack to a local machine or can send to multiple email id’s same time.

Functions

PACK - Provides user the functionality to pack all the files and generated scripts ran under Pre

Migration, Migration and Post Migration in the Zip format.

SEARCH - Provides user the functionality to Filter based on CIQ List and NE name

MAIL - Provides user the functionality to email the generated scripts to a registered Email address which is connected to open network.

EDIT - Provides user the functionality to Update enabled fields.

DELETE - Provides user the functionality to Delete Packed Site data details.

**Parameter Details**

|  |  |
| --- | --- |
| NAME | DESCRIPTION |
| DATE RANGE | This parameter represents to select the date range for packing. |
| CIQ List | This parameter represents to select CIQ file which is available to pack details for a particular program name. |
| NE NAME | This parameter represents the NE name which is provided based on the selected CIQ File. |
| REMARKS | This parameter represents that the user can give Remarks before packing. |

**EOD REPORTS**

User can generate reports based on events. User can upload it manually as and when an event is successful

Functions

CREATE - Provides user the functionality to create EOD Reports by selecting Market, NE Name and NE ID for a selected customer name.

EXPORT - Provides user the functionality to Export EOD data.

SEARCH - Provides user the functionality to Filter based on Market, NE Name, NE ID, Carriers and Alarm present.

CLONE - Provides user the functionality to duplicate the data which is created from the user

EDIT - Provides user the functionality to Update enabled fields.

DELETE - Provides user the functionality to Delete EOD report details.

CANCEL - Provides user the functionality to Cancel the open record details

**Parameter Details**

|  |  |
| --- | --- |
| NAME | DESCRIPTION |
| TOTAL LOOKUP | This parameter represents Total Lookup of EOD Reports. |
| SELECT FORECAST DATE | This parameter represents Forecast date. |
| MARKET | This parameter represents the Market which is provided based on the selected CIQ File. |
| NE NAME | This parameter represents the NE name which is provided based on the selected CIQ File. |
| NE ID | This parameter represents the NE ID which is provided based on the selected Market. |
| RAN ENGINEER | This parameter represents Ran Engineer for selected Customer Name. |
| GROW REQUESTED | This parameter represents whether the grow is requested for EnodeB id or not. |
| GROW COMPLETED | This parameter represents whether the grow is completed for EnodeB id or not. |
| CIQ PRESENT | This parameter represents whether the CIQ file is present or not. |
| STATUS | This parameter represents the status whether it is Cancelled/Roll back/Completed |
| REVISIT |  |
| VLSM |  |
| START TIME | This parameter represents the Start Time. |
| END TIME | This parameter represents the End Time. |
| ALD |  |
| ISSUE |  |
| C&I |  |
| NON C&I |  |
| COMMENTS | This parameter represents to give the Comments to create EOD Reports. |

**S&R**

S & R Page consists of:

1. Scheduling
2. Overall Reports
3. Reports

**SCHEDULING**

The entire Commissioning process can be scheduled using the Scheduler.

User needs to provide the Forecast Date, Comp date, Market Area, eNB ID, NE Name, Grow Request and so on. The input details can be imported using the ‘IMPORT’ functionality and can also exported to a file using the ‘EXPORT’ Functionality.

Functions

Search - Provides user the functionality to search the required data based on criteria.

Create - Provides the functionality to create new scheduling record.

Edit - Provides user the functionality to update the specified record.

Clone - Provides user the functionality to clone a row data in the UI for editing.

Delete - Provides user the functionality to delete specific record details.

Save - Provides user the functionality to save the details.

Cancel - Provides user the functionality to cancel the specific operation which is being performed

Import - Provides user the functionality to import from excel and save it into database.

Appropriate information should be provided to import specific excel database.

Export - Provides user the functionality to export the data to Excel from database.

**Parameter Details**

|  |  |
| --- | --- |
| NAME | DESCRIPTION |
| CUSTOMER NAME | This parameter represents the name of the customer. |
| SELECT FORECAST DATE | This parameter represents the forecast date. |
| SELECT COMP DATE | This parameter represents the completion date. |
| MARKET | This parameter represents the name of the market for that ne id. |
| NE ID | This parameter represents the ne id. |
| NE NAME | This parameter represents the NE name. |
| GROW REQUESTED | This parameter represents whether the grow is requested for eNB id or not. |
| GROW COMPLETED | This parameter represents whether the grow is completed for eNB id or not. |
| CIQ PRESENT | This parameter represents whether the CIQ file is present or not. |
| ENV COMPLETED | This parameter represents whether the ENV is completed for eNB id or not. |
| STANDARD / NON-STANDARD |  |
| CARRIERS |  |
| UDA |  |
| SOFTWARE LEVELS |  |
| FE ARRIVAL TIME | This parameter represents the FE arrival time. |
| C&I START TIME | This parameter represents the C&I start time. |
| DT HAND OFF |  |
| C&I END TIME | This parameter represents the C&I end time. |
| CANCELLED/ROLLBACKED/  COMPLETED | This parameter represents whether the grow is cancelled/rolled back/completed |
| TRAFFIC |  |
| ALARM PRESENT | This parameter represents the alarm is present or not. |
| C&I ENGINEER | This parameter represents the C&I engineer assigned to that grow |
| FT | This parameter represents the FT engineer assigned to that grow |
| DT | This parameter represents the DT engineer assigned to that grow |
| NOTES | This parameter represents the notes/remarks for that grow |

Note: SCHEDULING\_REPORTS\_TEMPLATE should be manually filled into the Database then

only S&R scheduling data for Verizon, Sprint etc.... can view.

**OVERALL REPORTS**

All reports pertaining to the commission of a specific NE can be generated/ displayed using this section. User can manually edit the status of event. The status of commissioning will be displayed against each eNB.

Functions

Search - Provides user the functionality to search the required data based on criteria.

Edit - Provides user the functionality to update the specified record.

Clone - Provides user the functionality to clone a row data in the UI for editing.

Delete - Provides user the functionality to delete specific record details.

Save - Provides user the functionality to save the details.

Cancel - Provides user the functionality to cancel the specific operation which is being performed

Import - Provides user the functionality to import from excel and save it into database.

Appropriate information should be provided to import specific excel database.

Export - Provides user the functionality to export the data to Excel from database.

**Parameter Details**

|  |  |
| --- | --- |
| NAME | DESCRIPTION |
| CUSTOMER NAME | This parameter represents the name of the customer. |
| SELECT FORECAST DATE  RANGE | This parameter represents the date range |
| MARKET | This parameter represents the name of the market for that ne id. |
| NE ID | This parameter represents the ne id. |
| NE NAME | This parameter represents the NE name. |
| STATUS | This parameter represents the status whether it is Cancelled/Roll back/Completed |

**REPORTS**

Reports display the status of the overall reports in 3 options

1. Daily - Displays the table for the action performed on the current date.
2. Weekly - Displays the table for the action performed on the past seven days.
3. Periodic - Displays the table for the action performed on selected date range.

Functions

Display - Provides user the functionality to display the data based on the selection

**Parameter Details**

|  |  |
| --- | --- |
| NAME | DESCRIPTION |
| CUSTOMER NAME | This parameter represents the name of the customer. |
| DURATION | This parameter represents the selection of daily/periodic/weekly. |