

Library Overview

Ericsson Dynamic Activation 1

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1 Introduction

This document presents the Customer Product Information available for Ericsson™ Dynamic Activation (EDA). The library contains information that is necessary during the life cycle of the product.

1.1 Purpose and Scope

The purpose of this document is to give an overview of the Dynamic Activation library content.

1.2 Target Groups

The target groups for this document are as follows:

- All users of the Dynamic Activation library

1.2.1 Description of Target Groups

This section gives a more detailed description about the target groups mentioned in the Dynamic Activation library. See Table 1.

Table 1 Target Groups

Target Group	Description	Purpose of Customer Product Information
Application Administrator	Technician responsible for activities related to the functions and features of Dynamic Activation. The application administrator works with configuration and reconfiguration, as well as collection of In-Service Performance (ISP) and other measurement and statistical data.	<ul style="list-style-type: none">• To describe the different GUIs used for Dynamic Activation.• To describe the different features and functions of Dynamic Activation.• To describe how to perform maintenance on Dynamic Activation.• To describe procedures for collection of ISP and statistics.• To in detail describe each parameter in each activity in the configuration.• To describe how to handle configuration and tuning.
Application Designer	Works with design of applications based on Application Programming Interfaces (APIs) and external interfaces that need to interact with Dynamic Activation.	<ul style="list-style-type: none">• Detailed descriptions of the external interfaces and Integrated Development Environment (IDEs)

Target Group	Description	Purpose of Customer Product Information
Business Configuration Engineer	Business Configuration Engineer is responsible for the provisioning process when new services and products are launched. The role has a deep knowledge about the systems and the business use cases for the new services or product. The role starts with a requirement specification from the product owner, then analyzes the impact on provisioning process as a whole and provides a feasibility study for the implementation. This role is also responsible for the implementation & testing of the solution.	<ul style="list-style-type: none"> • To explain the overall Dynamic Activation architecture. • To describe the functional and non-functional behavior of the product features. • To describe how to realize the provisioning solution with the relevant features. • To describe the use cases supported by each feature.
Marketing	The marketing personnel works with marketing of the system towards the end customers, the presumed Dynamic Activation subscriber.	<ul style="list-style-type: none"> • To describe the system from a subscriber and system user point-of-view. • To provide input for material for marketing material produced by the network operator.
Network Administrator	Responsible for the overall Operation and Maintenance (O&M) of the mobile core network such as Mobile Services Switching Center (MSC), Service Control Point (SCP) including High Level Service (HLS), and Home Location Register (HLR).	<ul style="list-style-type: none"> • To describe the procedures for setting network parameters and exchange data in the access network. • To describe how to act in fault and maintenance situations.
Network Supervision Administrator	<p>Technician responsible for network supervision of the network where Dynamic Activation is a part.</p> <p>Works with network supervision configuration, and is the receiver of alarms for Dynamic Activation.</p>	<ul style="list-style-type: none"> • To provide information about configurations needed for the network supervision system in order for it to receive alarms. • To provide alarms and error handling information for actions that can be taken remotely.
Solution Architect	Responsible for realization of the provisioning solution. Holds in-depth understanding of provisioning related business use cases and relevant information needed for implementation. Also responsible for the maintenance of the solution.	<ul style="list-style-type: none"> • To explain the overall Dynamic Activation architecture. • To describe the installation procedure of the different parts of Dynamic Activation. It can also be part of the duties for a separate group of installation staff. • To describe how to manage the different Dynamic Activation platforms, the databases, and the interfaces between them. • To describe the different Graphical User Interfaces (GUIs) used for Dynamic Activation. • To describe fault situations so that initial troubleshooting can be performed. • To describe alarm handling and suggest procedures to handle the alarms.
Solution Integrator	Solution Integrator works on site to install, configure, and verify the complete solution.	<ul style="list-style-type: none"> • To describe the functional and non-functional behavior of the product features. • To describe how to realize the provisioning solution with the relevant features.



Target Group	Description	Purpose of Customer Product Information
System Administrator	<p>Responsible for the O&M of the Dynamic Activation systems.</p> <p>The System Administrators are also normally the primary resources for troubleshooting and usually act as the network operator representatives during installations or upgrades.</p> <p>This work requires cooperation with network operation as the system administration tasks affects that area.</p> <p>Different areas of system administration are identified:</p> <ul style="list-style-type: none"> • Oracle™ • UNIX™ • Dynamic Activation • Alarm 	<ul style="list-style-type: none"> • To describe the installation procedure of the different parts of Dynamic Activation. It can also be part of the duties for a separate group of installation staff. • To explain the overall Dynamic Activation architecture. • To describe how to manage the different Dynamic Activation platforms, the databases, and the interfaces between them. • To describe the different Graphical User Interfaces (GUIs) used for Dynamic Activation. • To describe fault situations so that initial troubleshooting can be performed. • To describe alarm handling and suggest procedures to handle the alarms.
Other	Other users of Customer Product Information.	

1.3 Typographic Conventions

This section describes the typographic conventions used in the Dynamic Activation library. Table 2 and Table 3 gives detailed information.

Table 2 Typographic Conventions

Type	Description	Convention
User Input	A command that must be entered in a Command Line Interface (CLI) exactly as written	<code>cd \$HOME</code>
Command Variables	Command variable values that must be supplied by the user	<code><home_directory></code>
GUI Objects	GUI objects, such as menus, fields, and buttons	Click File > Exit .
Key Combinations	Key combinations	Press Ctrl+X to delete the selected value. ⁽¹⁾
System Elements	Command, parameter, program, path, and directory names	<p>The files are located in <code>E:\Test</code>.</p> <p>The files are located in <code>etc/opt/ericsson/bin</code>.⁽²⁾</p>
Output Information	Text displayed by the system	System awaiting input
Code Examples	Code examples	<pre>stat char* months[] = \ {"Jan", "Feb"}</pre>

(1) The plus sign (+) indicates that both keys must be pressed simultaneously.

(2) The use of the slash (/) is for UNIX systems, PC systems use the backslash (\).



Table 3 Product Users

User	Prompt
root	#
Hardware administrator	>
Administrator included in the activation or wheel group	\$
boot prompt	ok



2 Dynamic Activation Library

The Dynamic Activation CPI library is divided in sub libraries. The coming subchapters list documents for each sub library.

2.1 Generic Documents

The **Generic Documents** library contains documents common for Resource Activation and Resource Configuration.

2.1.1 Safety and Environment

The **Safety and Environment** folder contains the generic safety documents listed in the following table.

Table 4 Documents in Safety and Environment Folder

Document Title	Description
<i>System Safety Information</i> Reference [1]	This document is a generic Ericsson document that describes system safety.
<i>Personal Health and Safety Information</i> Reference [2]	This document is a generic Ericsson document that describes personal health and safety.

2.1.2 Library Overview

The **Library Overview** folder contains the documents listed in the following table.

Table 5 Documents in Library Overview Folder

Document Title	Description
<i>Glossary of Terms and Acronyms</i> Reference [3]	This document explains Dynamic Activation terms and acronyms used in the product documentation.
<i>Library Overview</i> Reference [4]	This document describes how the Dynamic Activation CPI documentation is organized.
<i>Trademark Information</i> Reference [5]	This document lists the trademarks and their respective owners used in this library.

2.1.3 Product Overview

The **Product Overview** folder contains the documents listed in the following table.



2.1.3.1 Overview

Table 6 Documents in Overview Folder

Document Title	Description
<i>Product Overview</i> Reference [6]	This document gives an overview of Dynamic Activation and its features.
<i>Software Specification</i> Reference [7]	This document contains information about the Ericsson Components, Commercial Software, and Freeware Third-Party Product Software, used by Ericsson Dynamic Activation.

2.1.3.2 Function Specifications

Table 7 Documents in Function Specifications Folder

Document Title	Description
<i>Function Specification Dynamic Activation Execution Environment</i> Reference [108]	This document describes the generic functions of the Dynamic Activation system and platform.

2.1.4 Planning

The **Planning** folder contains the documents listed in the following tables.

2.1.4.1 Native Deployment

Table 8 Documents in Native Deployment Folder

Document Title	Description
<i>Network Impact Report</i> Reference [8]	This document describes all the updates for each release.
<i>Customer Questionnaire for Native Deployment</i> , Reference [38]	This document includes questions about site and customer-specific parameters needed to configure Dynamic Activation on GEO3 and GEP5. It also includes questions regarding the site status, which is the foundation for deciding when the actual implementation begins.

2.1.4.2 Virtual and Cloud Deployment

Table 9 Documents in Virtual and Cloud Deployment Folder

Document Title	Description
<i>Network Impact Report</i> Reference [8]	This document describes all the updates for each release.



Document Title	Description
<i>Customer Questionnaire for Virtual and Cloud Deployment</i> Reference [39]	This document contains questions about site and customer-specific parameters needed to configure Dynamic Activation system and its components on virtual and cloud deployments. It also contains questions regarding the site status which is the foundation for a decision when the actual implementation begins.
<i>Requirements on Virtualization and Cloud Infrastructure</i> , Reference [40]	This document provides guidelines for deploying Ericsson Dynamic Activation (EDA) as a virtual or cloud cluster.

2.1.5 Installation

2.1.5.1 Native Deployment

2.1.5.1.1 Initial

Table 10 Documents in Initial Folder

Document Title	Description
<i>Hardware Installation and IP Infrastructure Setup for Native Deployment GEP3</i> Reference [45]	This document provides the instructions for installing and making a basic configuration of hardware in the Dynamic Activation GEP3 configuration.
<i>Hardware Installation and IP Infrastructure Setup for Native Deployment GEP5</i> Reference [46]	This document provides the instructions for installing and making a basic configuration of hardware in the Dynamic Activation GEP 5 configuration.
<i>Software Installation for Native Deployment</i> Reference [47]	This document describes how to install and configure Dynamic Activation in a native deployment.
<i>Network Description and Configuration for Native Deployment</i> Reference [49]	This document gives detailed information about the network configuration of the Dynamic Activation in a GEP3 or GEP5 configuration.
<i>Parameter List for Native Deployment</i> Reference [41]	This document describes the basic UNIX and hardware information on how to partition the disks, install 3PP software and applications for Dynamic Activation on GEP3 and GEP5.

2.1.5.1.2 System Upgrade and Expansion

Table 11 Documents in System Upgrade and Expansion Folder

Document Title	Description
<i>System Upgrade to Ericsson Dynamic Activation 1</i> Reference [51]	This document describes how to perform a system migration to Dynamic Activation 1.
<i>System Expansion for Native Deployment</i> Reference [52]	This document describes the expansion process in Dynamic Activation.



2.1.5.1.3

Reference

Table 12 Documents in Reference Folder

Document Title	Description
<i>LDEwS SW Installation</i> Reference [54]	This document describes how the Linux Distribution Extensions with SUSE (LDEwS) product can be installed and configured.
<i>LDE Management Guide</i> Reference [55]	This document describes how to configure and manage LDE.
<i>eVIP on LSB Internetworking</i> Reference [56]	This document describes the interfaces and basic configuration concepts. It is intended to be used for network engineering.
<i>eVIP on LSB Management Guide</i> Reference [57]	This document describes how to use eVIP.

2.1.5.2

Virtual and Cloud Deployment

2.1.5.2.1

Initial

Table 13 Documents in Initial Folder

Document Title	Description
<i>Software Installation for Virtual and Cloud Deployment</i> Reference [48]	This document contains instructions regarding how to install the Dynamic Activation in a virtualized and cloud deployment.
<i>Network Description and Configuration for Virtual and Cloud Deployment</i> Reference [50]	This document gives detailed information about the network configuration of Dynamic Activation on virtual and cloud platforms.
<i>Parameter List for Virtual Deployment</i> Reference [42]	This document describes the basic information on how to configure RedHat Enterprise Linux (RHEL) in a virtualized deployment. By using this document, readers are able to get necessary information about the parameters used in the installation.
<i>Parameter List for CEE Deployment</i> , Reference [43]	This document lists the parameters used for install or configure Dynamic Activation in a CEE environment.
<i>Parameter List for Openstack Deployment</i> , Reference [44]	This document lists the parameters used for install or configure OpenStack environment.

2.1.5.2.2

System Upgrade and Expansion

Table 14 Documents in System Upgrade and Expansion Folder

Document Title	Description
<i>System Upgrade to Ericsson Dynamic Activation 1</i> Reference [51]	This document describes how to perform a system migration to Dynamic Activation 1.
<i>System Expansion for Virtual and Cloud Deployment</i> Reference [53]	This document describes the Kernel Based Virtual Machine (KVM) and Cloud expansion process for Dynamic Activation.



2.1.6 Integration

The **Integration** folder contains the documents listed in the following tables.

2.1.6.1 IDE/Customization

Table 15 Documents in IDE/Customization Folder

Document Title	Description
<i>Customization - Architectural Overview</i> Reference [9]	This document provides an architectural overview for Business Logic customizations in Dynamic Activation.

2.1.6.2 Northbound Interface Adaptation

Table 16 Documents in the Northbound Interface Adaptation Folder

Document Title	Description
<i>Northbound Interface Adapter Reference Manual</i> , Reference [10]	This document is a reference for the development of Northbound Interface Adapter in Dynamic Activation.
<i>Northbound Interface Adapter Customization Development Guide for HTTP-Based Protocol</i> , Reference [17]	This document is intended for the CA developers who develop the Northbound Interface with the HTTP-based protocol in NBIA, targeting provisioning integration with customer's Business Support System Northbound Interface.
<i>Northbound Interface Adapter Customization Development Guide for CLI-Based Protocol</i> , Reference [18]	This document is intended for the CA developers who develop the Northbound Interface with the CLI-based protocol in NBIA, targeting provisioning integration with customer's Business Support System Northbound Interface.

2.1.6.3 DUP Migration

Table 17 Documents in DUP Migration Folder

Document Title	Description
<i>DUP Customer Adaptation Migration Guide</i> Reference [15]	This document describes the processes of developing CA in Dynamic Activation, which is converted from DUP and Java Link in Classic Multi Activation. This document is intended to convert MVNE DUP CA to Dynamic Activation.
<i>DUP Migration API Reference Manual</i> Reference [16]	This document provides API description for the JDVs converted from legacy DUP code.

2.1.6.4 OSS/BSS Integration

Table 18 Documents in Client Integration Folder

Document Title	Description
<i>OSS/BSS Integration Guide</i> Reference [112]	This document provides guidance for client integration towards Dynamic Activation, in both standalone and redundant setups.



2.1.7 Operation and Maintenance

The **Operation and Maintenance** folder contains the documents listed in the following tables.

2.1.7.1 Native Deployment

2.1.7.1.1 Fault Management

Table 19 Documents in Fault Management Folder

Document Title	Description
<i>Backup and Restore Guideline for Native Deployment</i> Reference [63]	This document explains the backup and restore solutions in Dynamic Activation.
<i>Event and Alarm Handling</i> Reference [65]	This document lists all events that Dynamic Activation can generate.
<i>Blade Replacement Instruction for Native Deployment</i> Reference [67]	This document provides instructions for replacing hardware, Payload (PL), or Control (SC) blades, in Dynamic Activation.
<i>Data Collection Guideline</i> Reference [12]	This document provides instructions on how to use the Data Collecting tool in Dynamic Activation, and it also describes the required information to be established when a Customer Service Request (CSR) for a particular type of fault is open.

2.1.7.1.2 Configuration Management

Table 20 Documents in Configuration Management Folder

Document Title	Description
<i>System Administrators Guide for Native Deployment</i> Reference [68]	This document is written for Dynamic Activation system administrators and covers the administration of all the different configurations. It focuses on the software and how to get the system up and running.
<i>License Counter Management</i> Reference [115]	The purpose of this document is to describe the procedure for setting the license field <code>Used capacity</code> to the correct value in Dynamic Activation during the migration of subscribers from monolithic Network Elements to User Data Consolidation (UDC).

2.1.7.1.3 Security Management

Table 21 Documents in Security Management Folder

Document Title	Description
<i>Hardening Guideline for Native Deployment</i> Reference [73]	This document contains the hardening guidelines for the Dynamic Activation configurations based on Component Based Architecture (CBA).
<i>Security and Privacy Management</i> Reference [106]	This document describes the potential risks and attacks an operator can be exposed to and recommends counter measures.



2.1.7.2 Virtual and Cloud Deployment

2.1.7.2.1 Fault Management

Table 22 Documents in Fault Management Folder

Document Title	Description
<i>Backup and Restore Guideline for Virtual and Cloud Deployment</i> Reference [64]	This document explains the backup and restore solutions in Dynamic Activation.
<i>Event and Alarm Handling</i> Reference [65]	This document lists all events that Dynamic Activation can generate.

2.1.7.2.2 Configuration Management

Table 23 Documents in Configuration Management Folder

Document Title	Description
<i>System Administrators Guide for Virtual and Cloud Deployment</i> Reference [69]	This document covers the system administration, operation, and maintenance routines available for Dynamic Activation in a virtual or cloud deployment.
<i>License Counter Management</i> Reference [115]	The purpose of this document is to describe the procedure for setting the license field <code>Used capacity</code> to the correct value in Dynamic Activation during the migration of subscribers from monolithic Network Elements to User Data Consolidation (UDC).

2.1.7.2.3 Security Management

Table 24 Documents in Security Management Folder

Document Title	Description
<i>Hardening Guideline for Virtual and Cloud Deployment</i> Reference [74]	This document contains the hardening guidelines for the Dynamic Activation configurations in a virtual or cloud deployment.
<i>Security and Privacy Management</i> Reference [106]	This document describes the potential risks and attacks an operator can be exposed to and recommends counter measures.

2.1.8 Interface

The **Interface** folder contains the documents listed in the following table.

Table 25 Documents in Interface Folder

Document Title	Description
<i>Generic CAI3G Interface 1.2</i> Reference [13]	This document describes the CAI3G version 1.2, how it works and what it can be used for.
<i>CAI3G Implementation</i> Reference [76]	This document describes CAI3G implementation in Dynamic Activation.



Document Title	Description
<i>Generic CLI Interface Specification</i> Reference [91]	This document is an introduction to the Dynamic Activation CLI. It describes syntaxes, control commands, and some general CLI information.
<i>Asynchronous CAI3G Interface Specification 1.2</i> Reference [19]	This document provides the information about using ACAI3G, based on the CAI3G specification.
<i>Generic EDIFACT Interface Specification</i> Reference [118]	This document describes the electronic data interchange for administration, commerce, and transport (EDIFACT) message interface, which is offered by Business Support and Control System (BSCS)/ Generic-Mediation-Device (GMD) to communicate with Dynamic Activation.

2.2 Resource Activation

The **Resource Activation** library contains documents specific for Resource Activation.

2.2.1 Overview

The **Overview** folder contains the documents listed in the following tables.

2.2.1.1 Platform

Table 26 Documents in Platform Folder

Document Title	Description
<i>Function Specification Resource Activation</i> Reference [20]	This document gives detailed description of the common functions in the Dynamic Activation software platform and provides an entry of related documentation.
<i>Solution Description VoLTE</i> , Reference [37]	This document describes the VoLTE provisioning, supported by Dynamic Activation, from a solution perspective.

2.2.1.2 2G 3G

Table 27 Documents in 2G 3G Folder

Document Title	Description
<i>Function Specification Layered HLR</i> Reference [21]	This document gives a brief introduction to the HLR/AUC/MNP-FE provisioning solutions based on EDA.
<i>Function Specification Administration of Multi Regions and BSS Capacity</i> Reference [14]	The document gives a detailed description of the Administration of Multi Regions feature and Administration of BSS Capacity feature in the Dynamic Activation product family.
<i>Function Specification Layered Machine to Machine</i> Reference [23]	This document gives an introduction to the Machine to Machine (M2M) provisioning solution provided by Dynamic Activation.



2.2.1.3 LTE EPC

Table 28 Documents in LTE EPC Folder

Document Title	Description
<i>Function Specification Layered LTE EPC</i> Reference [24]	This document gives an introduction to the Data Layered Architecture (DLA) HSS EPS and AVG provisioning from Dynamic Activation perspective.

2.2.1.4 IMS Core

Table 29 Documents in IMS Core Folder

Document Title	Description
<i>Function Specification Layered IMS</i> Reference [25]	This document gives an introduction to the IP Multimedia Subsystem (IMS) provisioning solution.
<i>Function Specification IPWorks/ENUM</i> Reference [26]	This document gives a brief introduction to the Monolithic Telephone Number Mapping (ENUM) Data in IPWorks provisioning solution, provided by Dynamic Activation.

2.2.1.5 Policy Control

Table 30 Documents in Policy Control Folder

Document Title	Description
<i>Function Specification SAPC</i> Reference [30]	This document gives an introduction to the Service-Aware Policy Controller (SAPC) provisioning in the layered and monolithic deployment, provided by Dynamic Activation.

2.2.1.6 Multimedia Telephony

Table 31 Documents in Multimedia Telephony Folder

Document Title	Description
<i>Function Specification MTAS</i> , Reference [33]	This document gives a brief introduction to the Ericsson Multimedia Telephony (MMTel), a standard built around Multimedia Application Server (MTAS).
<i>Function Specification BCE</i> , Reference [34]	This document gives a brief introduction to the Business Communication Enabler (BCE) provisioning solution, provided by Dynamic Activation.
<i>Function Specification PGM</i> , Reference [35]	This document gives a brief introduction to the Presence, Group, and data Management (PGM) provisioning solution, provided by Dynamic Activation.
<i>Solution Description SIP Trunking</i> , Reference [36]	This document describes the SIP Trunking service provisioning, supported by Dynamic Activation, from a solution perspective.



2.2.1.7 Subscriber Services

Table 32 Documents in Subscriber Services Folder

Document Title	Description
<i>Function Specification Layered EIR</i> Reference [27]	This document gives an introduction to the Layered Equipment Identity Register (EIR) provisioning solution, provided by Dynamic Activation.
<i>Function Specification Layered IPWorks/AAA</i> Reference [28]	This document is an introduction of the Layered Authentication, Authorization, and Accounting (AAA) Data in IPWorks provisioning solution, provided by Dynamic Activation.
<i>Function Specification Layered DAE</i> Reference [29]	This document gives a brief introduction to the optional feature, Layered Data Access Enabler (DAE) provisioning solution, provided by Multi Activation.
<i>Function Specification DSC/ILF</i> Reference [31]	This document gives a brief introduction to the Diameter Signaling Controller (DSC) / Individual Locator Function (ILF) provisioning solutions based on Dynamic Activation.

2.2.1.8 Charging and CBiO

Table 33 Documents in Charging and CBiO Folder

Document Title	Description
<i>Solution Description Charging and CBiO</i> Reference [119]	This document describes the Charging system and Charging and Billing in One (CBiO) solution for customer management, provided by Dynamic Activation.

2.2.1.9 Wi-Fi Calling

Table 34 Documents in Charging and Wi-Fi Calling Folder

Document Title	Description
<i>Solution Description Wi-Fi Calling</i> Reference [120]	This document describes Wi-Fi Calling for multi-device (Non-SIM) provisioning supported by Dynamic Activation from a solution perspective.
<i>Function Specification Layered IPWorks/AAA NSD</i> Reference [120]	This document gives a brief introduction to the Layered Authentication, Authorization, and Accounting (AAA) NonSIM Device (NSD) Subscription Data in IPWorks provisioning solution, provided by Dynamic Activation.



2.2.1.10 UDC Common Services

Table 35 Documents in UDC Common Services Folder

Document Title	Description
<i>Function Specification Multi Service Consumer Common Data</i> Reference [32]	This document gives a brief introduction to Multi Services Consumer Common Data provisioning solution, provided by Dynamic Activation.
<i>Function Specification Identity Changeover for Layered Applications</i> Reference [22]	This document gives, from a Dynamic Activation perspective, a brief introduction to the different changeover provisioning procedures supported in the DLA.

2.2.2 Initial Configuration

Table 36 Documents in Initial Configuration Folder

Document Title	Description
<i>Configuration Manual for Resource Activation</i> Reference [58]	This document is a configuration instruction for the HSS services for Dynamic Activation provisioning.
<i>Configuration Manual UDC Data Durability</i> Reference [59]	This document describes how to configure, and tune automatic replay of LDAP operations towards CUDB in a layered (UDC) architecture.

2.2.3 Integration

Table 37 Documents in the Integration Folder

Document Title	Description
<i>CAI3G Customer Adaptation Guideline</i> , Reference [60]	This document is a guideline for implementing CAI3G customer adaptations in Dynamic Activation.
<i>Customer Adaptation Development Guide for Resource Activation</i> , Reference [61]	This document describes the processes of developing CA in Dynamic Activation.
<i>VoLTE Provisioning Customer Adaptation Guide</i> , Reference [11]	This document is intended for the CA developers who develop Subscriber View Business Logic (BL) with Java Data Views (JDVs), targeting VoLTE provisioning solution in DLA.
<i>CBiO Provisioning Customer Adaptation Guide</i> Reference [122]	This document describes the processes of developing Business Support and Control System (CBiO) Provisioning with Designer Studio.

2.2.4 Operation and Maintenance

2.2.4.1 Fault Management

Table 38 Documents in Fault Management Folder

Document Title	Description
<i>CUDB Subscription Repair and Remove Procedures</i> Reference [66]	This document is intended to be used to identify and repair or remove provisioning orders that have been partly or entirely executed.



2.2.4.2 Configuration Management

Table 39 Documents in Configuration Management Folder

Document Title	Description
<i>User Guide for Resource Activation</i> Reference [70]	This document is a guide to the GUI of Dynamic Activation and provides information on how to perform configuration tasks using the GUI.

2.2.5 Interface

2.2.5.1 2G 3G

Table 40 Documents in 2G 3G Folder

Document Title	Description
<i>Layered HLR AUC Service Associated Data over CLI</i> Reference [81]	This document covers the service associated data operations available through Dynamic Activation CLI.
<i>Layered HLR Common Profile Data over CAI3G</i> Reference [83]	This document describes a subset of the CAI3G inbound interface towards Dynamic Activation. It covers the HLR provisioning profiles.
<i>Layered HLR Common Profile Data over CLI</i> Reference [84]	This document describes common profile management operations.
<i>CAI3G Interface Specification for HLR Components</i> Reference [78]	This document describes the supported methods in CAI3G for wireless Network Elements, the attributes used, and the format of input parameters.
<i>CAI Interface Specification for HLR Components</i> Reference [77]	This document specifies the Customer Administration Interface (CAI) protocol for subscription/equipment administration towards Ericsson GSM network.
<i>Layered HLR AUC Provisioning over MML</i> Reference [80]	This document describes the supported Man-Machine Language (MML) commands that can be used for provisioning of layered Authentication Center (AUC-FE) and layered Home Location Register (HLR-FE). The document also contains commands that have different characteristics internally in the Dynamic Activation system, individual and common data commands.
<i>Layered HLR AUC Massive Operations over CLI</i> Reference [79]	This document covers the massive operations available through the UDC HLR/AUC activation interface CLI.
<i>Scheduled Procedures for Layered Applications</i> Reference [92]	This document describes scheduled procedures in Dynamic Activation, as it is used in UDC.
<i>Layered HLR AUC Subscription Repair and Remove Actions over CAI3G</i> Reference [82]	This document describes a subset of the CAI3G inbound interface towards Dynamic Activation. It covers Centralized User Database (CUDB) provisioning commands.
<i>HLR Subscriber Data Type Definitions</i> Reference [75]	This document describes all HLR Subscriber Data Definitions, that exist in Dynamic Activation.
<i>Layered M2M Subscription Provisioning over CAI3G</i> Reference [86]	This document describes a subset of the Customer Administration Interface Third Generation (CAI3G) inbound interface towards EDA. It covers the Machine to Machine (M2M) subscription commands.



2.2.5.2

LTE EPC

Table 41 Documents in LTE EPC Folder

Document Title	Description
<i>Layered AVG Provisioning over CAI3G</i> Reference [87]	This document describes the supported operations or CSOs in the provisioning of the Authentication Vector Generation (AVG) service in the CAI3G interface. These operations are used for provisioning of HSS FE module data. This document also declares the types and occurrences of the attributes used in the operations.
<i>Layered EPS Provisioning over CAI3G</i> Reference [88]	This document describes the supported operations or Customers Service Orders (CSOs) in the provisioning of the Evolved Packet System (EPS) service in the CAI3G interface. These operations are used for provisioning of HSS FE module data. It also declares the types and occurrences of the attributes used in the operations.
<i>Scheduled Procedures for Layered Applications</i> Reference [92]	This document describes scheduled procedures in Dynamic Activation, as it is used in UDC.

2.2.5.3

IMS Core

Table 42 Documents in IMS Core Folder

Document Title	Description
<i>Layered AVG Provisioning over CAI3G</i> Reference [87]	This document describes the supported operations or CSOs in the provisioning of the Authentication Vector Generation (AVG) service in the CAI3G interface. These operations are used for provisioning of HSS FE module data. This document also declares the types and occurrences of the attributes used in the operations.
<i>Layered IMS Provisioning over CAI3G</i> Reference [89]	This document describes the supported operations or CSOs in the provisioning of the IMS Subscription Manager (ISM) service in the CAI3G interface. These operations are used for provisioning of HSS FE module data. This document also declares the types and occurrences of the attributes used in the operations.
<i>IPWorks/ENUM Provisioning over CAI3G</i> Reference [90]	This document describes the supported CSOs in the CAI3G interface which is used for provisioning of ENUM data in IPWorks. This document also declares the types and occurrences of the attributes used in the operations.



2.2.5.4

Policy Control

Table 43 Documents in Policy Control Folder

Document Title	Description
<i>SAPC Provisioning over CAI3G</i> Reference [101]	This document describes the interface exposed by Dynamic Activation for provisioning of SAPC data. The interface exposes some Customers Service Orders (CSOs) that enables management of the following data: <ul style="list-style-type: none">• The SAPC subscription data stored in a Consolidated User Database (CUDb) for layered SAPC• The SAPC subscription data stored in SAPC internal repository for monolithic SAPC
<i>SAPC Massive Operations over CLI</i> Reference [102]	This document covers the massive operations available through the Dynamic Activation Command Line Interface (CLI). It describes SAPC conditional search commands.

2.2.5.5

Multimedia Telephony

Table 44 Documents in Multimedia Telephony Folder

Document Title	Description
<i>MTAS Provisioning over CAI3G</i> Reference [103]	This document describes the Multimedia Telephony (MMTel) related provisioning on Multimedia Telephony Application Server (MTAS), provided by Dynamic Activation. Supported methods for MTAS provisioning are described. This document also declares the types and occurrences of the attributes used in the operations.
<i>BCE Provisioning over CAI3G</i> Reference [104]	This document describes the supported Customers Service Orders (CSOs) in the CAI3G interface which is used for provisioning of Business Communication Enabler (BCE).
<i>PGM Provisioning over CAI3G</i> Reference [105]	This document describes the supported Customers Service Orders (CSOs) in the CAI3G interface which is used for provisioning of Presence, Group, and Data Management (PGM).

2.2.5.6

Subscriber Services

Table 45 Documents in Subscriber Services Folder

Document Title	Description
<i>Layered DAE Provisioning over CAI3G</i> Reference [94]	This document describes the interface exposed by Multi Activation for provisioning of Data Access Enabler (DAE) data. The interface exposes some Customers Service Orders (CSOs) that enables management of devices stored in a Centralized User Database (CUDb).



Document Title	Description
<i>Layered EIR Provisioning over CAI3G</i> Reference [95]	This document describes the interface exposed by Dynamic Activation for provisioning of EIR data. The interface exposes some Customers Service Orders (CSOs) that enables management of equipment, equipment status, and search orders EIR-related data stored in a Consolidated User Database (CUDB).
<i>Layered EIR Massive Operations over CLI</i> Reference [93]	This document covers the massive operations available through the Dynamic Activation Command Line Interface (CLI). It describes Layered Equipment Identity Register (EIR), conditional search commands.
<i>Layered IPWorks/AAA Provisioning over CAI3G</i> Reference [96]	This document describes the supported Customers Service Orders (CSOs) in the CAI3G interface, which is used for provisioning of AAA data in IPWorks. The interface exposes some Customers Service Orders (CSOs), that enables management of AAA data stored in a Consolidated User Database (CUDB).
<i>Layered IPWorks/AAA Massive Provisioning over CLI</i> Reference [97]	This document covers the massive operations available through the Dynamic Activation Command Line Interface (CLI). It describes layered AAA IPWorks, conditional search commands, and massive update commands.
<i>DSC/ILF Provisioning over CAI3G</i> Reference [98]	This document describes the Individual Locator Function (ILF) CAI3G interface that is provided for provisioning of Diameter Signaling Controller (DSC).

2.2.5.7

Charging and CBiO

Table 46 Documents in Charging and CBiO Folder

Document Title	Description
<i>Charging Provisioning over CAI3G</i> Reference [123]	This document describes the supported methods for Changing System.

2.2.5.8

Wi-Fi Calling

Table 47 Documents in Charging and Wi-Fi Calling Folder

Document Title	Description
<i>Wi-Fi Calling Provisioning over CAI3G</i> Reference [121]	This document covers descriptions of installation, interface, and configuration of Dynamic Activation. In the Secure Entitlement Server (SES) solution, Dynamic Activation is responsible for user and service profile provisioning towards the monolithic nodes, for example IPWorks.



2.2.5.9 UDC Common Services

Table 48 Documents in UDC Common Services Folder

Document Title	Description
<i>Multi Service Consumer Common Data Provisioning over CAI3G</i> Reference [99]	This document describes the supported Customers Service Orders (CSOs) in the CAI3G interface which is used for the provisioning of Multiple Service Consumer Common Data.
<i>Layered Identity Changeover Provisioning over CAI3G</i> Reference [85]	This document describes a subset of the Customer Administration Interface Third Generation (CAI3G) inbound interface towards Dynamic Activation. It covers the layered Identity Changeover commands that support the AUC, HLR, and EPS services.

2.3 Resource Configuration

2.3.1 Overview

Table 49 Documents in Overview Folder

Document Title	Description
<i>Function Specification Resource Configuration</i> Reference [116]	This document gives an introduction to Resource Configuration in Dynamic Activation.

2.3.2 Integration

Table 50 Documents in the Integration Folder

Document Title	Description
<i>Customer Adaptation Guide for Resource Configuration</i> , Reference [62]	This document describes the processes of developing Resource Configuration customizations.

2.3.3 Operation and Maintenance

Table 51 Documents in Operation and Maintenance Folder

Document Title	Description
<i>User Guide for Resource Configuration</i> Reference [72]	This document is a guide to the GUI of Resource Configuration and provides information on how to perform configuration tasks using the Resource Configuration GUI.



2.3.4 Interface

Table 52 Documents in Interface Folder

Document Title	Description
<i>Provisioning over CAI3G for Resource Configuration</i> Reference [100]	This document describes the supported operations or CSOs in the CAI3G interface, for Resource Configuration. This document also declares the types and occurrences of the attributes used in the operations.
<i>Device Management over REST for Resource Configuration</i> Reference [117]	This document describes the Device Management Representational State Transfer (REST) API, where it is possible to add, remove, update, and get devices in the Device Repository.

2.4 Consistency Checker

2.4.1 Overview

Table 53 Documents in Overview Folder

Document Title	Description
<i>Function Specification Consistency Checker</i> Reference [107]	This document gives a description of the Consistency Checker functionality.

2.4.2 Installation

Table 54 Documents in Installation Folder

Document Title	Description
<i>Installation Instruction for Consistency Checker on Glassfish Server Open Source Edition</i> Reference [109]	This document describes how to install the Consistency Checker.
<i>Porting Guide for Consistency Checker</i> , Reference [110]	This document describes how to port the Consistency Checker onto an Application Server other than the Sun GlassFish Enterprise Server.

2.4.3 Integration

Table 55 Documents in the Integration Folder

Document Title	Description
<i>Programmers Guide for Consistency Checker</i> Reference [111]	This document is directed to the application designers and describes how to implement customer adaptation for the Consistency Checker.



2.4.4 Operation and Maintenance

Table 56 Documents in Operation and Maintenance Folder

Document Title	Description
<i>System Administrators Guide for Consistency Checker</i> Reference [113]	This document provides knowledge to the readers about the Consistency Checker system administration.
<i>User Guide for Consistency Checker</i> Reference [114]	The purpose of this document is to help users understand the Consistency Checker GUI.

2.5 Designer Studio

Table 57 Documents in the Designer Studio Folder

Document Title	Description
<i>User Guide for Designer Studio</i> Reference [71]	This document describes the functionality of the Designer Studio solution and provides information on how to prepare the Designer Studio environment and how to configure service models.

2.6 Batch Handler

Table 58 Documents in the Batch Handler Folder

Document Title	Description
<i>User Guide for Batch Handler</i> Reference [124]	This document is a guide to the GUI of Batch Handler and provides information on how to perform batch jobs tasks using the GUI.



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