

Function Specification DSC/ILF

Ericsson Dynamic Activation 1

FUNCTION SPECIFICATION

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1 Introduction

This section is an introduction to this document. It contains information about the prerequisites, purpose, scope, and target group for the document. This section also contains explanations of typographic conventions used in this document.

1.1 Purpose and Scope

This document gives a brief introduction to the Diameter Signaling Controller (DSC) / Individual Locator Function (ILF) provisioning solutions based on Ericsson™ Dynamic Activation (EDA).

1.2 Target Group

The target groups for this document are as follows:

- Network Administrator
- System Administrator
- Application Administrator
- Network Supervision Administrator
- Application Designer
- Marketing
- Other

For information about the different target groups, see *Library Overview*, Reference [1]

1.3 Typographic Conventions

Typographic conventions are described in *Library Overview*, Reference [1].

2 Overview

The Ericsson DSC provides ILF. Dynamic Activation supports provisioning of the ILF functionality in DSC by providing a CAI3G interface towards the BSS. In addition Dynamic Activation also provides backward compatibility towards the Subscriber Location Function (SLF) provisioning interface earlier provided by PG Classic (in 15.0 or earlier releases).

An overview of the DSC/ILF provisioning solution supported by Dynamic Activation is shown in Figure 1.

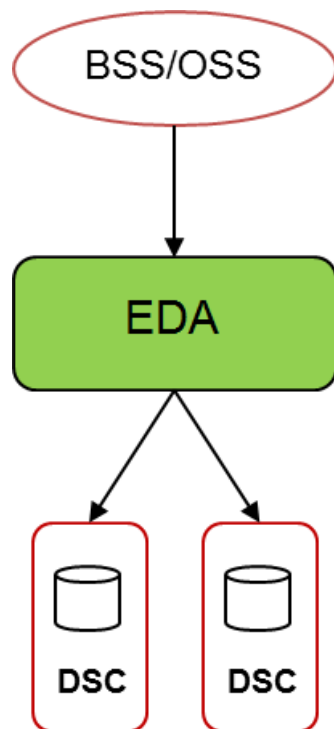


Figure 1 DSC/ILF Overview

- **BSS** – Initiates the provisioning request towards Dynamic Activation.
- **Dynamic Activation** – A provisioning system that provides a single provisioning interface towards the Business Support System (BSS), by hiding the complexities of provisioning multiple underlying Network Elements (NEs).
- **DSC** – Diameter Signaling Controller, a key element for managing and securing Diameter signaling. It consists of two individual clusters, and only one blade in each cluster handles provisioning traffic.



3 Data Model DSC/ILF

An ILF or SLF subscription request, which is an XML document containing user information, is sent towards Dynamic Activation. The subscription data is then provisioned and stored as internal data in DSC.

The following table shows the ILF services supported in Dynamic Activation:

Table 1 ILF Services in Dynamic Activation

Service	Detailed Information
Subscription	Section 4.1 on page 3
SLFSubscription ⁽¹⁾	Section 4.2 on page 4

(1) Supported for backward compatibility.

4 ILF Provisioning

For the ILF provisioning, CAI3G is the interface provided. The CAI3G SLF provisioning operations are provided for backward compatibility. It is possible to perform the following Get and Set operations:

- Get/Set Subscription
- Get/Set SLFSubscription

For information about the CAI3G DSC/ILF provisioning, refer to *DSC/ILF Provisioning over CAI3G*, Reference [2].

4.1 Subscription

Subscription service is used for associating the MSISDNs, IMSIs, public identities, and private identities with HSS.

For the ILF functionality in DSC, it supports the following associations:

- msisdnEntry
- imsiEntry
- publicIdEntry

- `privateIdEntry`

4.2 SLFSubscription

This service is provided for backward compatibility towards old SLF provisioning support. The following identities are supported:

- `msisdnEntry`
- `imsiEntry`
- `publicIdEntry`
- `privateIdEntry`

5 WS-Security

DSC CAI3G interface is the southbound interface supported by Dynamic Activation, which uses web WS-Security mechanisms instead of Session Control service as the authentication method:

- **HTTPS** – password in clear text as the primary method.
- **HTTP** – password in digest as an alternative backup method.



Reference List

Ericsson Documents

- [1] *Library Overview*, 18/1553-CSH 109 628 Uen
- [2] *DSC/ILF Provisioning over CAI3G*, 12/155 19-CSH 109 628 Uen