



SPR Support for Gx and N7 with Embedded MongoDB

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Feature Summary and Revision History

Summary Data

Table 1: Summary Data

Applicable Products or Functional Area	PCF
Applicable Platform(s)	SMI
Feature Default Setting	Enabled - Always-on
Related Documentation	Not Applicable

Revision History

Table 2: Revision History

Revision Details	Release
First introduced.	2023.03.0

Feature Description

In the case of Embedded Subscriber Profile Repository (SPR), PCF supports subscriber authorization for Gx and N7. The PCF provides internal access to both SPR and the Unified API Endpoint. The SPR databases get configured in an existing administration database replica set or used as a separate MongoDB replica set.

PCF must review the subscriber session policies if any subscriber profile changes get notified in the SPR DB. If there is any post profile update in the subscriber policy, the PCF sends a Gx-RAR or N7 Notify message. When the PCF receives the notification, it locates the subscriber profile from the SPR DB, reviews the policy, and initiates an N7 Notify message to SMF if there is any policy change.

Feature Configuration

This section describes how to configure the SPR PB.

SPR PB configuration:

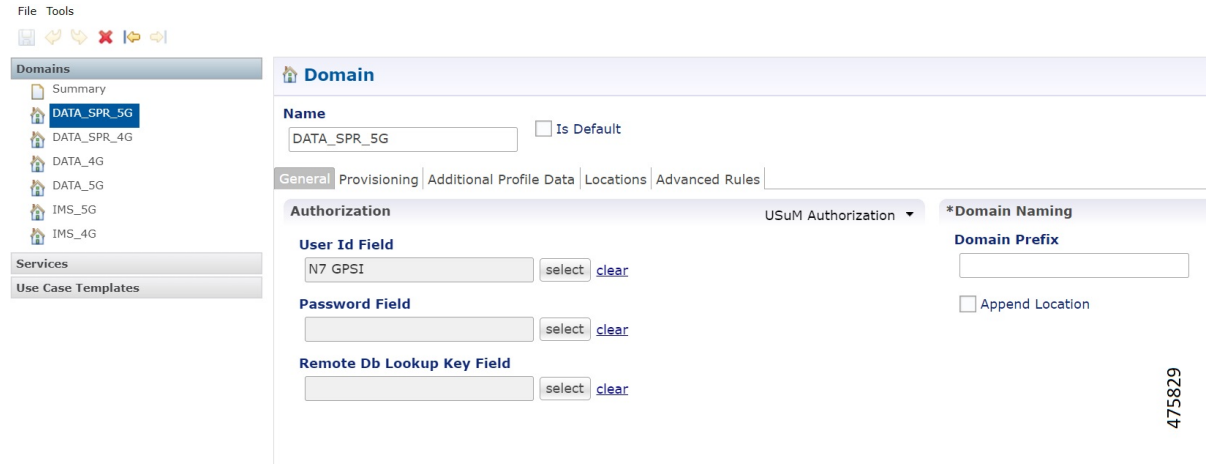
In the Policy Builder > Plugin Configuration > Click USuM Configuration.

Figure 1: USuM Configuration

The screenshot displays the Cisco Policy Builder web interface. The top navigation bar includes the Cisco logo and 'POLICY BUILDER' text. Below the navigation bar, there is a status bar with host information and user details. The main interface is divided into a left-hand navigation pane and a right-hand configuration area. The navigation pane shows a tree structure under 'Systems' with 'system-1' expanded to show 'Plugin Configurations', where 'USuM Configuration' is selected. The configuration area on the right contains several sections: '*Failover Sla Ms' with a text input field containing '2000'; '*Max Replication Wait Time Ms' with a text input field containing '100'; '*Shard Configuration' section containing '*Primary Database Host' (admin-db-0.admin-db) and 'Secondary Database Host' (admin-db-1.admin-db); '*Database Port' with a text input field containing '27017'; and two checkboxes, 'Remote Shard Configuration' and 'Remote Database Configuration', both of which are currently unchecked.

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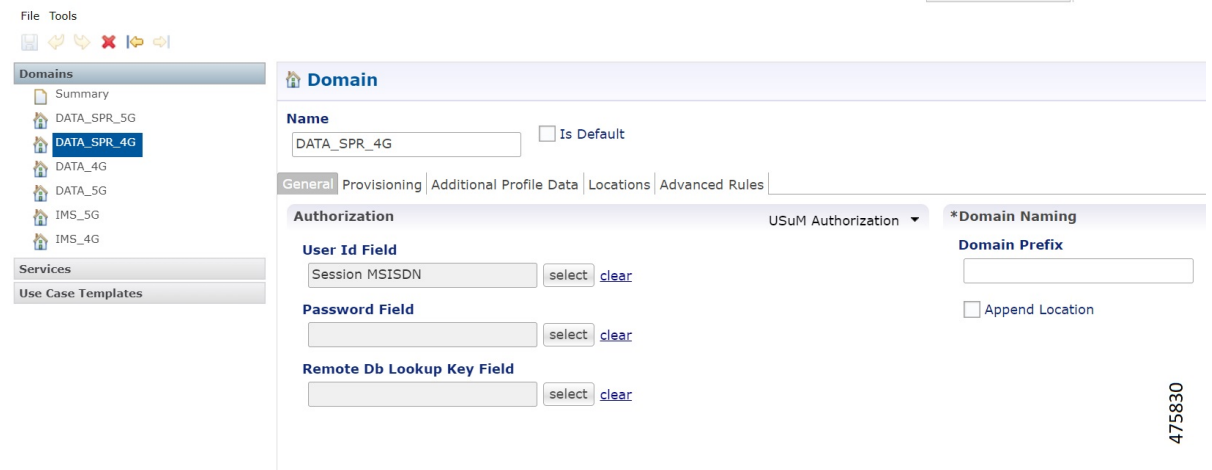
Figure 2: SPR N7 Configuration



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You can use N7 GPSI or SUPI as a lookup key for N7.

Figure 3: SPR Gx Configuration



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In the Domain tab, select the USuM Authorization from the drop down. You can use the Gx IMSI or MSISDN as a lookup key for Gx.

