



## UCC 5G PCF- Release Change Reference

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### Features and Changes Quick Reference

Features	Default	Release Introduced / Modified
<a href="#">Data Policy use case validation, on page 2</a>	Enabled - Always-on	2023.03.0
<a href="#">M6 Functional Validation, on page 2</a>	Enabled - Always-on	2023.03.0
<a href="#">Serviceability Diagnostics, on page 3</a>	Enabled - Always-on	2023.03.0
<a href="#">Support for EPS Fallback, on page 4</a>	Enabled - Always-on	2023.03.0
<a href="#">Support for NetLocAccessSupport , on page 6</a>	Enabled - Always-on	2023.03.0

# Data Policy use case validation

## 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	<ul style="list-style-type: none"> <li>• <i>UCC 5G PCF Configuration and Administration Guide</i></li> </ul>

### Revision history

*Table 2: Revision History*

Revision Details	Release
First introduced.	2023.03.0

## Feature Description

This feature monitors the Data Policy use case validation and does not influence the documents.

# M6 Functional Validation

## Feature Summary and Revision History

### Summary Data

*Table 3: Summary Data*

Applicable Products or Functional Area	PCF
Applicable Platform(s)	SMI
Feature Default Setting	Enabled – Always-on

Related Documentation	<ul style="list-style-type: none"> <li>• <i>UCC 5G PCF Configuration and Administration Guide</i></li> </ul>
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## Revision History

*Table 4: Revision History*

Revision Details	Release
First introduced.	2023.03.0

## Feature Description

This feature monitors the PCF validation on M6 and does not influence the documents.

## Serviceability Diagnostics

## Feature Summary and Revision History

### Summary Data

*Table 5: Summary Data*

Applicable Products or Functional Area	PCF
Applicable Platform(s)	SMI
Feature Default Setting	Enabled – Always-on
Related Documentation	<ul style="list-style-type: none"> <li>• <i>UCC 5G PCF Configuration and Administration Guide</i></li> <li>• UCC 5G PCF CLI Reference</li> </ul>

### Revision history

*Table 6: Revision History*

Revision Details	Release
First introduced.	2023.03.0

## Feature Description

The services for the health check:

- Health check of the Splunk
- Active alarm report

**Utility Details:**

- Health check of the Splunk
  - When the status of the argument is “splunk” for the health check of the Splunk, then the logging status gets executed and displays details on the console.
- Active alarm report
  - When the status argument input as “alert”, then Active alert summary details get displays on the console.

For more information, refer to the [UCC 5G PCF Configuration and Administration Guide > Serviceability Diagnostics](#) chapter.

For more information, refer to the [UCC 5G PCF CLI Reference > PCF System Serviceability Diagnostics](#) chapter.

# Support for EPS Fallback

## Feature Summary and Revision History

### Summary Data

*Table 7: Summary Data*

Applicable Products or Functional Area	PCF
Applicable Platform(s)	SMI
Feature Default Setting	Enabled – Always-on
Related Documentation	<ul style="list-style-type: none"> <li>• <i>UCC 5G PCF Configuration and Administration Guide</i></li> </ul>

### Revision History

*Table 8: Revision History*

Revision Details	Release
First introduced.	2023.03.0

## Feature Description

The PCF communicates with the SMF on the N7 interface subscribing to the EPS Fallback. The following describes about the Evolved Packet System (EPS) Fallback Report:

- Support for EPS Fallback Report
- Requesting SMF for EPS Fallback Report
- Subscription for EPS Fallback Event
- Reporting EPS Fallback to Application Function (AF)

### Support for EPS Fallback Report:

PCF negotiates with the SMF for the EPS Fallback Report feature and supports the EPS Fallback Report on the N7 interface. If the SMF supports the EPS Fallback Report feature, PCF enables it for the PDU session.

The AF negotiates for the EPS Fallback Report feature on N5 and Rx interfaces. The EPS Fallback Report feature for the Rx interface and N5 interface gets enabled, only if the feature is active for the PDU session. If SMF doesn't support this feature, then PCF disables the feature for the AF session.

### Requesting SMF for EPS Fallback Report:

PCF requests the SMF to report EPS\_FALLBACK for the installed or modified PCC rules corresponding to the AF session as follows:

- Add EPS\_FALLBACK to **policyControlReqTriggers**.
- Add EPS\_FALLBACK and references to PCC rule IDs to **lastReqRuleData** only for voice media type(5QI=1)

### Subscription for EPS Fallback Event:

**N5 Interface:** The AF subscribes to the EPS Fallback event and provides the **EventsSubscReqData** in the N5 Create or Update request message. The subscription for EPS Fallback event doesn't support the N5 delete requests.

**Rx Interface:** The AF subscribes to the EPS Fallback event and provides the EPS\_FALLBACK within the Specific-Action AVP in AAR. The subscription for the EPS Fallback event doesn't support the STR.

### Reporting EPS Fallback to AF:

**N5 Interface:** The PCF notifies the AF, and the EPS Fallback event gets added to the **evNotifs** attribute. The PCF doesn't include the EPS\_FALLBACK event in the N5 Delete Response sent to AF in N5 Delete.

**Rx Interface:** The PCF notifies the AF and EPS Fallback gets added to the Specific-Action AVP in the RAR. The PCF doesn't include the EPS\_FALLBACK Specific-Action AVP in the STA in the case of STR.

# Support for NetLocAccessSupport

## Feature Summary and Revision History

### Summary Data

*Table 9: Summary Data*

Applicable Products or Functional Area	PCF
Applicable Platform(s)	SMI
Feature Default Setting	Enabled – Always-on
Related Documentation	<ul style="list-style-type: none"> <li>• <i>UCC 5G PCF Configuration and Administration Guide</i></li> </ul>

### Revision History

*Table 10: Revision History*

Revision Details	Release
First introduced.	2023.03.0

## Feature Description

The PCF supports the NetLocAccessSupport reporting on the N5 and Rx interface. The following describes about the noNetLocSupp:

- Requesting SMF for Report of the requested Access Network Information
- Reporting noNetLocSupp to AF



**Note** NetLocAccessSupport Enumeration values:

- **ANR\_NOT\_SUPPORTED**: Indicates that the access network does not support the report of access network information.
- **TZR\_NOT\_SUPPORTED**: Indicates that the access network does not support the report of UE time zone.
- **LOC\_NOT\_SUPPORTED**: Indicates that the access network does not support the report of UE location.

**Requesting SMF for Report of the requested Access Network Information:**

If the NetLoc feature is supported, PCF requests SMF to report the access network information by setting the **AN\_INFO** policy control request trigger.

- If the "reqData" attribute indicates the values **MS\_TIME\_ZONE** and **USER\_LOC\_INFO**, the SMF notifies the PCF that the access network does not support sharing access network information by including netLocAccSupp in UeCampingRep with **ANR\_NOT\_SUPPORTED** in the N7 Update Notify response.
- If the "reqData" attribute indicates only **MS\_TIME\_ZONE** value, the SMF notifies the PCF that the access network does not support sharing UE time zone information reporting by including netLocAccSupp in UeCampingRep with **TZR\_NOT\_SUPPORTED** in the N7 Update Notify response.
- If the "reqData" attribute indicates only **USER\_LOC\_INFO** value, the SMF notifies the PCF that the access network does not support sharing UE location information by including netLocAccSupp in UeCampingRep with **LOC\_NOT\_SUPPORTED** in the N7 Update Notify response.

#### Reporting noNetLocSupp to AF:

If the NetLoc feature is enabled, AF request the PCF to report the access network information.

- **N5 Interface:** If the SMF notifies the PCF that the access network does not support sharing access network information, then
  - In N5 response to AF subscription, PCF contains noNetLocSupp attribute with NetLocAccessSupport enum as received from SMF and an event of the "AfEventNotification" data type in the "evNotifs" element with the "event" attribute set to the value **ANI\_REPORT**.
- **Rx Interface:** If the SMF notifies the PCF that the access network does not support sharing access network information, then
  - PCF sends a RAR command with the Specific-Action AVP set to **INDICATION\_OF\_ACCESS\_NETWORK\_INFO\_REPORTING\_FAILURE** and the NetLoc-Access-Support AVP set to 0 (**NETLOC\_ACCESS\_NOT\_SUPPORTED**) to the AF requesting access network information in AAR command or STA command by including the NetLoc-Access-Support AVP set to the value of 0 (**NETLOC\_ACCESS\_NOT\_SUPPORTED**) to the AF requested the access network information in an STR command.




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**Note** If the NetLoc feature is not enabled in SMF, then

- PCF includes noNetLocSupp attribute with **ANR\_NOT\_SUPPORTED** and an event of the "AfEventNotification" data type in the "evNotifs" attribute with the "event" attribute set to the value "ANI\_REPORT" in N5 responses to AF subscription or include NetLoc-Access-Support AVP set to the value of 0 (**NETLOC\_ACCESS\_NOT\_SUPPORTED**) in Rx responses to AF subscription.
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