

N7 Notify Retry Based on Error Codes

- Feature Summary and Revision History, on page 1
- Feature Description, on page 1
- How it Works, on page 2
- Call Flows, on page 2

Feature Summary and Revision History

Summary Data

Table 1: Summary Data

Applicable Products or Functional Area	PCF
Applicable Platform(s)	SMI
Feature Default Setting	Disabled – Configuration required to enable
Related Documentation	Not Applicable

Revision History

Table 2: Revision History

Revision Details	Release
First introduced.	2022.03.0

Feature Description

The Cisco PCF enables the N7 Notify Retry on an error code in the instance of the N7 Notify error response from SMF. The PCF performs the retry to the SMF, only if the error code is configured in the OPs center.

Note PCF supports retry on error code only for the same site.

How it Works

This section describes how this feature works.

Call Flows

This section describes the key call flow for this feature.

N7 Notify Retry on Error code Call Flow

This section describes the configuration of N7 Notify Retry on Error code call flow.

Figure 1: N7 Notify Retry on Error code Call

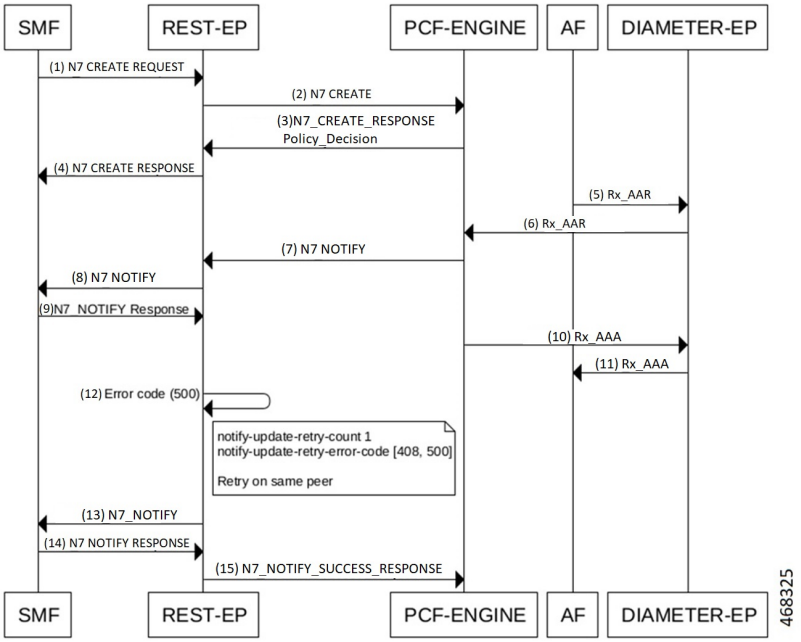

Table 3: N7 Notify Retry on Error code Call Flow Description

Step	Description
1	The SMF sends a N7 Create Request to the REST-EP.
2	The REST-EP sends N7 Create to the PCF-ENGINE.

Step	Description
3	The PCF-ENGINE responds to the REST-EP with a N7 Create Response Policy Decision.
4	The REST-EP sends N7 Create Response to the SMF.
5	The AF sends RX AAR to the DIAMETER-EP.
6	The DIAMETER-EP sends RX AAR to the PCF-ENGINE.
7	The PCF-ENGINE sends N7 Notify to the REST-EP.
8	The REST-EP sends N7 Notify to the SMF.
9	The SMF responds with a N7 Notify Response to the REST-EP.
10	The PCF-ENGINE sends RX AAA to the DIAMETER-EP.
11	The DIAMETER-EP sends RX AAA to the AF.
12	The REST-EP validates the conditions after receiving an error code in the SMF.
13	The REST-EP sends N7 Notify to the SMF.
14	The SMF responds to the REST-EP with a N7 Notify Response.
15	The REST-EP responds with N7 Notify Success Response to the PCF-ENGINE.