



Table Evaluation Optimization for PCF

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Feature Introduction

Table 1: Feature History

Feature Name	Release Information	Description
Initiator Condition for Evaluation of CRD Tables	2025.01.0	<p>PCF allows the user to include the Table Search Initiator Conditions in Custom Reference Data (CRD) table. This addition selectively activates only the required tables, thereby optimizing the overall evaluation process.</p> <p>This feature enhances the efficiency of PCF by reducing unnecessary evaluations and streamlining troubleshooting efforts.</p> <p>Default Setting: Enabled - Always on</p>

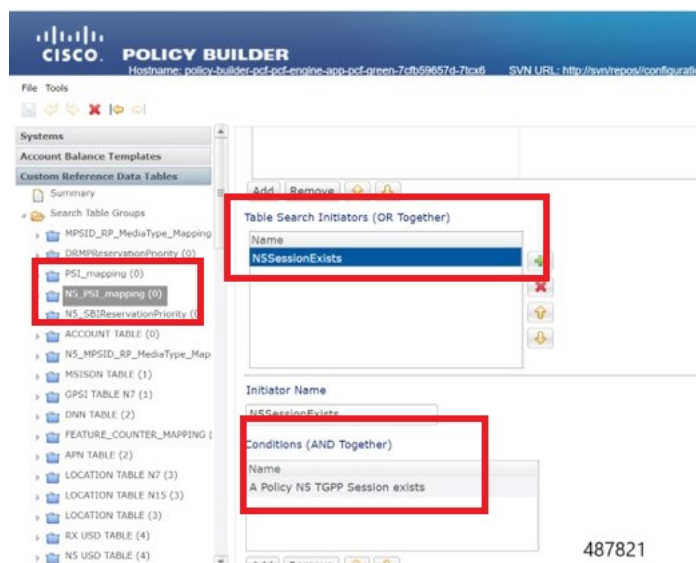
The PCF currently evaluates all the configured CRD tables for every incoming message. This comprehensive evaluation complicates the troubleshooting by making it challenging to determine the source of specific values. So, PCF allows the inclusion of Table Search Initiator conditions that activates only the required tables based on specific conditions.

The Initiator conditions can be added for N5, Rx and non N5/Rx tables.

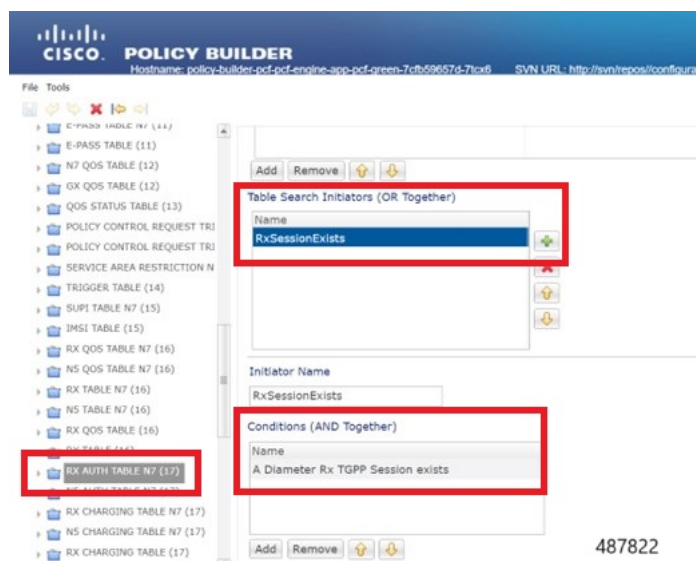
Initiator Conditions

The preceeding Table Search Initiator conditions are included for the respective tables for evaluation:

- For N5 Tables, use the **A Policy N5 TGPP Session exists** condition.



- For Rx Tables, use the **A Diameter Rx TGPP Session exists** condition.



- Use a **A Policy N5 TGPP Session exists** or **A Diameter Rx TGPP Session exists** condition for the tables to avoid evaluation for messages other than N5 or Rx message:

CISCO. POLICY BUILDER
 Hostname: policy-builder-pcf-pcf-engine-app-pcf-green-56f65d85c8-1cz86 SVN URI: http://svn/repos/pcf/configuration

File Tools

IMSI TABLE (15)
 RX QOS TABLE N7 (16)
 NS QOS TABLE N7 (16)
 RX TABLE N7 (16)
 NS TABLE N7 (16)
 RX QOS TABLE (16)
 RX TABLE (16)
 RX AUTH TABLE N7 (17)
 NS AUTH TABLE N7 (17)
 RX CHARGING TABLE N7 (17)
 NS CHARGING TABLE N7 (17)
 RX CHARGING TABLE (17)
 RX AUTH TABLE (17)
 NS_DUMMY NOTIFY TABLE N7 (17)
 DUMMY NOTIFY TABLE N7 (18)
 DUMMY RAR TABLE (18)
 TEARDOWN TABLE N7 (19)
 TEARDOWN TABLE N15 (19)
 TEARDOWN TABLE (19)
 QOS OVERRIDE TABLE N7 (20)
 QOS OVERRIDE TABLE (20)
N28 ACTION TABLE (21)

N28 ACTION TABLE 21 Copy: Current

Result Columns

*Name	Display Name
ACTION_OVER_N28	ACTION OVER N28

Add Remove

Table Search Initiators (OR Together)

Name
NSSessionExists
RxSessionExists

487823

CISCO. POLICY BUILDER
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 TEARDOWN TABLE (19)
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 QOS OVERRIDE TABLE (20)
 N28 ACTION TABLE (21)

Add Remove

Table Search Initiators (OR Together)

Name
NSSessionExists
RxSessionExists

Initiator Name
 NSSessionExists

Conditions (AND Together)

Name
A Policy NS TGPP Session exists

Add Remove

487824

