

Table Evaluation Optimization for PCF

- Feature Introduction, on page 1
- Initiator Conditions, on page 1

Feature Introduction

Table 1: Feature History

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

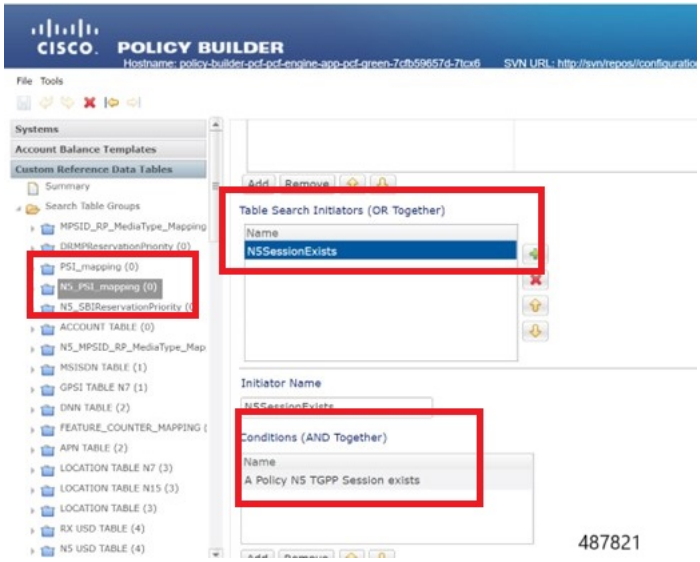
The PCF currently evaluates all the configured CRD tables for every incoming message. This comprehensive evaluation complicates the troubleshooting by making it challenging to determine the source of specific values. So, PCF allows the inclusion of Table Search Initiator conditions that activates only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

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

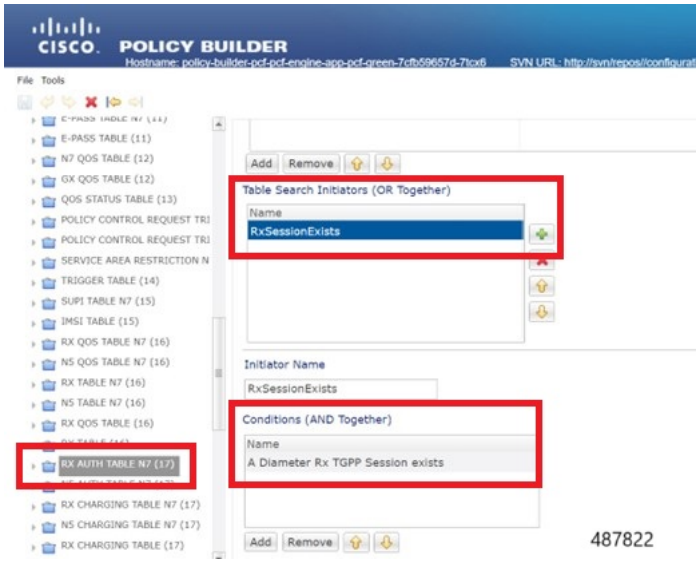
Initiator Conditions

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

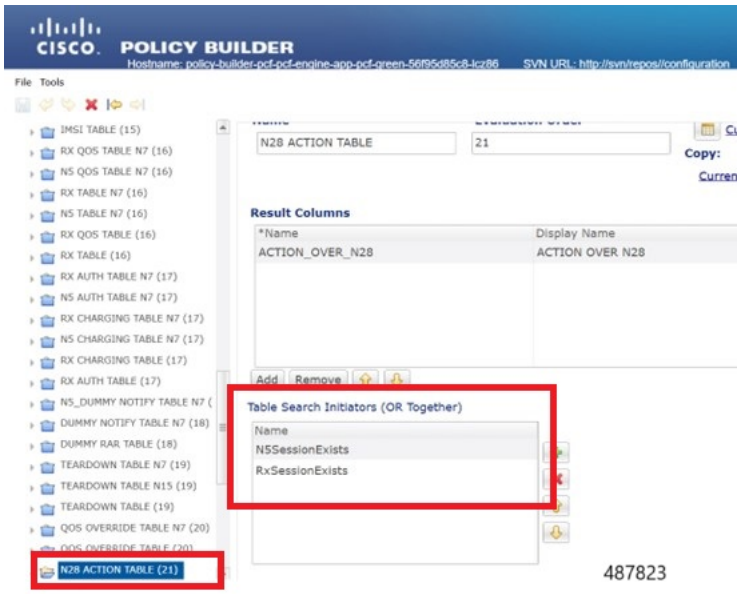
- For N5 Tables, use the **A Policy N5 TGPP Session exists** condition.

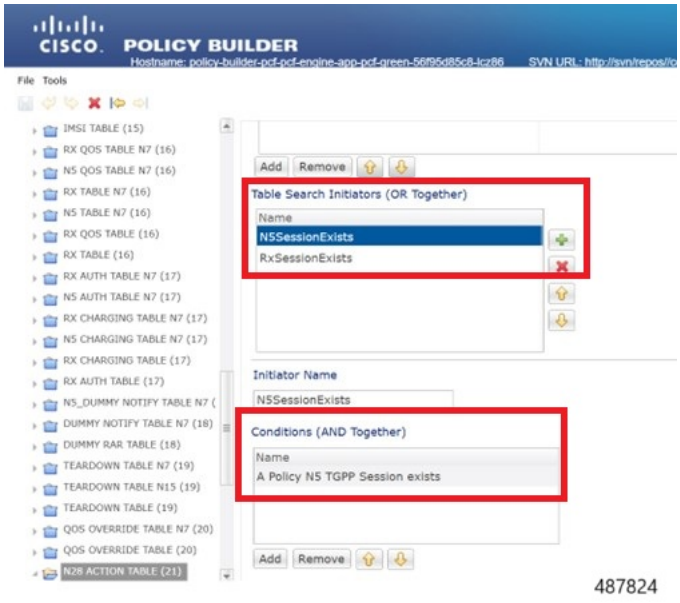


- For Rx Tables, use the **A Diameter Rx TGPP Session exists** condition.



- 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:


POLICY BUILDER
Hostname: policy-builder-pcf-pcf-engine-app-pcf-green-56f95d85c8-lcz86
SVN URL: http://svn/repos//configuration
File Tools
IMSI TABLE (15)
RX QOS TABLE N7 (16)
N5 QOS TABLE N7 (16)
RX TABLE N7 (16)
N5 TABLE N7 (16)
RX QOS TABLE (16)
RX TABLE (16)
RX AUTH TABLE N7 (17)
N5 AUTH TABLE N7 (17)
RX CHARGING TABLE N7 (17)
N5 CHARGING TABLE N7 (17)
RX CHARGING TABLE (17)
RX AUTH TABLE (17)
N5_DUMMY NOTIFY TABLE N7 (
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)
N28 ACTION TABLE (21)
N28 ACTION TABLE
21
Copy:
Result Columns
*Name
Display Name
ACTION_OVER_N28
ACTION OVER N28
Add
Remove
Table Search Initiators (OR Together)
Name
N5SessionExists
RxSessionExists
487823


POLICY BUILDER
Hostname: policy-builder-pcf-pcf-engine-app-pcf-green-56f95d85c8-lcz86
File Tools
IMSI TABLE (15)
RX QOS TABLE N7 (16)
N5 QOS TABLE N7 (16)
RX TABLE N7 (16)
N5 TABLE N7 (16)
RX QOS TABLE (16)
RX TABLE (16)
RX AUTH TABLE N7 (17)
N5 AUTH TABLE N7 (17)
RX CHARGING TABLE N7 (17)
N5 CHARGING TABLE N7 (17)
RX CHARGING TABLE (17)
RX AUTH TABLE (17)
N5_DUMMY NOTIFY TABLE N7 (
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)
Add
Remove
Table Search Initiators (OR Together)
Name
N5SessionExists
RxSessionExists
Initiator Name
N5SessionExists
Conditions (AND Together)
Name
A Policy N5 TGPP Session exists
Add
Remove
487824