

# VIAVI

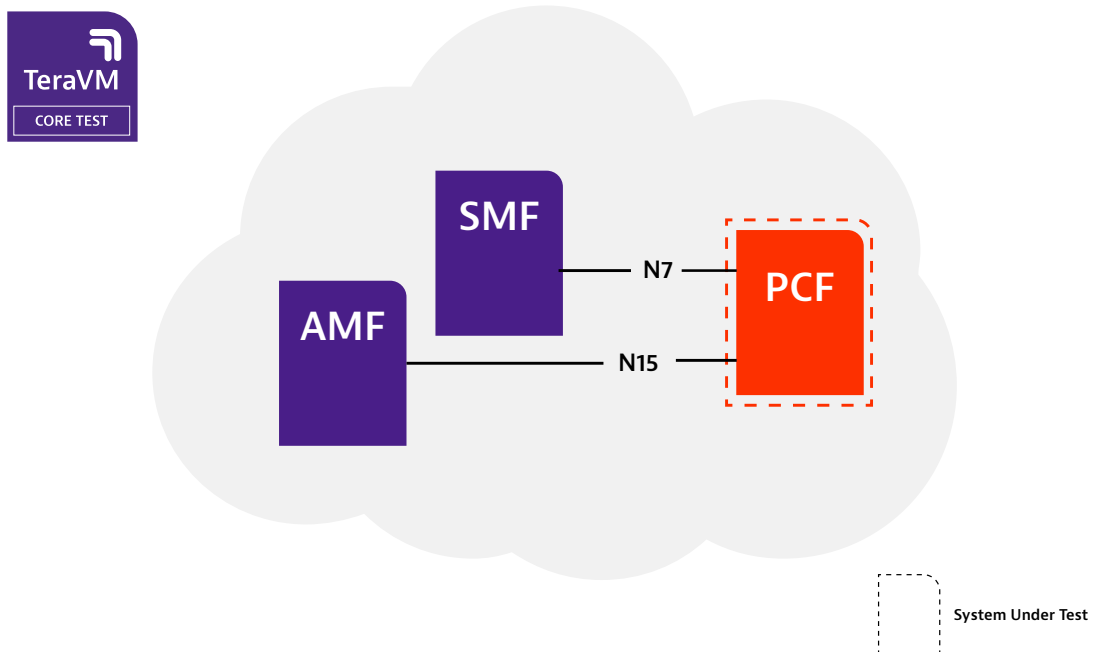
## TeraVM PCF Wraparound Test

### PCF Test

The PCF is a 5G SA Core Network element responsible for storing the policy information of the network subscriber base and has the following features and functions:

- Support 5G QoS policy and charging control functions and the related 5G signaling interfaces.
- Provide policy rules for control plane functions including network slicing, roaming and mobility management
- Collect subscriber metrics in relation to their network, usage, applications.
- Accesses subscription information relevant for policy decisions in a UDR (Unified Data Repository)

Testing a PCF requires emulating an AMF and SMF – the majority of interactions with PCF are from AMF and SMF. TeraVM PCF wraparound test does exactly that. The emulated AMF and SMF initiates control messages/procedures to the PCF over the N15 and N7 interface and the PCF under test in turn responds to these messages.



## PCF Test Cases

TeraVM PCF wraparound test supports the following test procedures:

- AM Policy Control Service (N15)
- SM Policy Control Service (N7)
- UE Registration Procedure
- PDU Session Activation Procedure
- UE Registration + PDU Session Activation Procedures

## PCF Test Configurable Parameters

As part of a test case the following parameters are configurable:

- Number of UEs
- Iterations per minute (an iteration is the complete set of transactions that comprises a procedure)
- Iteration limit
- Test time limit

## Example Test Case

**Policy Authorization Create procedure** (Npcf\_AMPolicyControl\_Create):

PCF under test receives 'Policy Authorization create procedure' from the VIAVI emulated AMF. This procedure instructs the PCF to create a context for a UE (access and mobility policy control) and in response send UE policy related to access and mobility to the AMF where it is verified and sanity checked.

## Order Codes

PCF wraparound test is available with the following product codes:

Part Number	Description	Capacity	Support
TVM3000	Dell Server for Core Test	—	HWSUP PPG15
TVM3136	PCF wraparound test	—	



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