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TeraVM UDM Wraparound Test
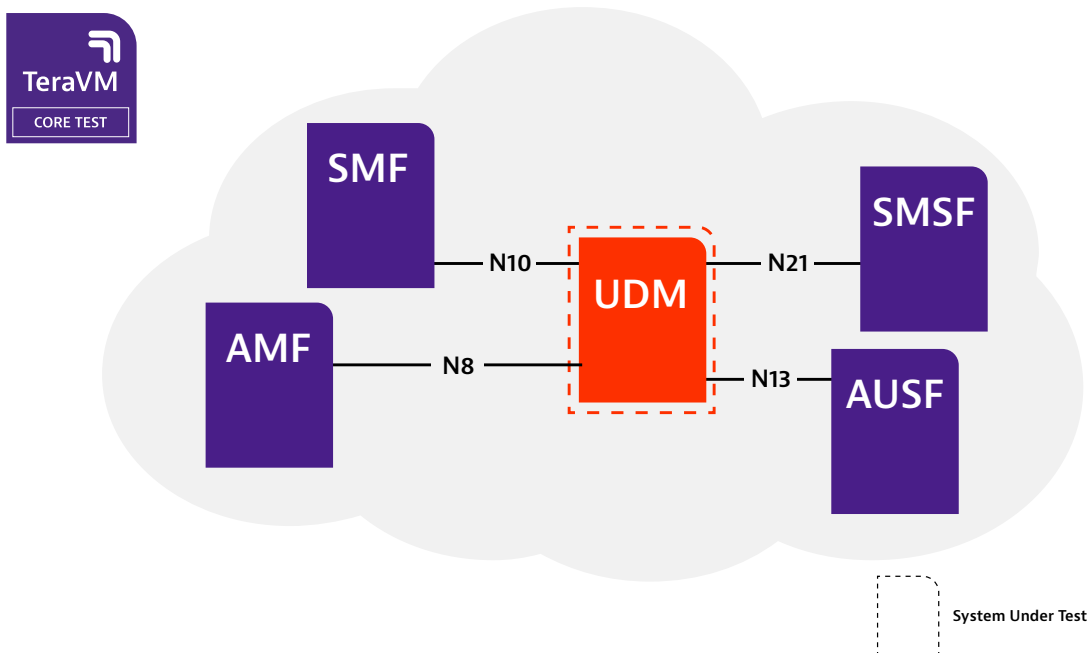
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UDM Test

The User Data Management (UDM) is a 5G SA Core Network element responsible for managing network user data. The UDM manages data for:

- Access authorization

- User registration

- Data network profiles

Subscriber data is provided to the SMF which then manages sessions on the network.

Testing a UDM requires emulating an AMF, SMF AUSF and SMSF. TeraVM UDM wraparound test initiates control messages/procedures to the UDM over the N8, N10, N13 and N21 interfaces and the UDM under test in turn responds to these messages.

UDM Test Cases

TeraVM UDM wraparound test supports the following test procedures:

- AUSF call for Authentication

- AUSF creation for a new confirmation event

- AMF registration for 3GPP access

- SMSF registration for 3GPP access

- SMF registration

- AMF deregistration for 3GPP access

- SMSF deregistration for 3GPP access

- SMF deregistration

Example Test Case

AUSF call for Authentication procedure (Nudm_EUAuthentication Service):

AUSF requests the UDM to select an authentication method and calculate a fresh authentication vector and provide it to the AUSF.

Order Codes

UDM wraparound test is available with the following product codes:

Part Number	Description	Capacity	Support
TVM3000	Dell Server for Core Test	—	HWSUP PPG15
TVM3137	UDM wraparound test	—	

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