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3. Discovery Tests

The Service Provisioning Tests are referred to the following tests reported in the TestPlan document: TD_SSP_01, TD_SSP_02, TD_SSP_03, TD_SSP_04. For Intracom only, the additional TD_SSP_01_ICOM collection has been created to configure partial service provisioning due to the limited amount of ports available in the Intracom Traffic Generator.

For the full description of the Test Plan document that can be found at https://wiki.plugtests.net/mWT-Plugtests2/images/0/0b/MWT_Plugtest2_TestPlan_v0.14.docx.

The results of the tests are expressed in the form of the HTTP report obtained after the execution of each collection test against the controller of each participant.

4. Ceragon Tests Results

4.1 TD_SSP_01 Newman Report

Collection
TD_SSP_01
Time
Tue Jul 07 2020 11:37:34 GMT+0200 (CEST)
Exported with
Newman v4.5.7

Total
Failed
Iterations
1
0
Requests
3
0
Prerequest Scripts
6
0
Test Scripts
6
0
Assertions
2
0

Total run duration
4.3s

Total data received
16.46KB (approx)
Average response time
345ms

Total Failures
0

Requests

TD_SSP_01-Step-1

Description
This step checks to see if two separated requests will be used, or the creation of Bandwidth Profile and Service should be done in one step only.

Method
GET
URL
http://10.101.243.4:8181/rests/data/ietf-yang-library:modules-state

Mean time per request
451ms

Mean size per request
16.46KB

Total passed tests
0
Total failed tests
0

Status code
200

TD_SSP_01-Step-2

Description
This step provides for the creation of a Bandwidth Profile. If a Provider does not support it, this step will be skipped (Step-1 will take care for that) and Test will continue with Step-3.

Method
POST
URL
http://10.101.243.4:8181/rests/data/ietf-eth-tran-service:etht-svc/globals

Mean time per request
175ms

Mean size per request
0B

Total passed tests
1
Total failed tests
0

Status code
201

Tests

Name	Pass count	Fail count
Post status check	1	0

TD_SSP_01-Step-3

Description
It sends a POST request in order to create the actual service. This step (as Step-2) will be executed only if it is supported. Otherwise Step-1 will continue with Step-3. After the execution of this step, Step-3 will be skipped.

Method
POST
URL
http://10.101.243.4:8181/rests/data/ietf-eth-tran-service:etht-svc

Mean time per request
410ms

Mean size per request
0B

Total passed tests
1
Total failed tests
0

Status code
201

Tests

Name	Pass count	Fail count
Post status check	1	0

4.2 TD_SSP_02 Newman Report

Collection
TD_SSP_02
Description
Interoperability Test Description Identifier TD_ SDN_SSP_02 Test Objective The service topology information is requested from the single DC under test in TD_SDN_SSP_01. The received information is checked to correctly list the newly created service. Configuration CFG_03 References Applicability MW_8040, MW_8345, MW_TETOPO, MW_MWTOPO, MW_ETHSVC Pre-test conditions • The Domain Controller instance is up and running normally • All the devices are upgraded to correct versions • All basic configurations are completed (e.g., NE_id, OSPF, PCEP, etc.) • The Restconf server is serviceable.
Time
Tue Jul 07 2020 11:39:43 GMT+0200 (CEST)
Exported with
Newman v4.5.7

Total
Failed
Iterations
1
0
Requests
1
0
Prerequest Scripts
1
0
Test Scripts
1
0
Assertions
16
0

Total run duration
1532ms
Total data received
4.48KB (approx)
Average response time
363ms

Total Failures
0

Requests

TD_SSP_02-Step-1
Method
GET
URL
http://10.101.243.4:8181/rests/data/ietf-eth-tran-service:etht-svc

Mean time per request
363ms

Mean size per request
4.48KB

Total passed tests
16
Total failed tests
0

Status code
200

Tests

Name	Pass count	Fail count
Response is OK	1	0
validate Response Body	1	0
Validate Response Body for "globals" node	1	0
Bandwidth profile existence check	1	0
Bandwidth profile values check	1	0
Validate Response Body for "etht-svc-instances" array	1	0
Service existence check for service S1_local	1	0
Validating Service Values for service S1_local	1	0
Service existence check for service S2_local	1	0
Validating Service Values for service S2_local	1	0
Service existence check for service S3_local	1	0

Name	Pass count	Fail count
Validating Service Values for service S3_local	1	0
Service existence check for service S1-inter-d	1	0
Validating Service Values for service S1-inter-d	1	0
Service existence check for service S2-inter-d	1	0
Validating Service Values for service S2-inter-d	1	0

4.3 TD_SSP_03 Newman Report

Collection
TD_SSP_03
Description
Interoperability Test Description Identifier TD_ SDN_SSP_03 Test Objective Delete the specified L2 data service over a single domain. The traffic generator/analyzer confirms that data stops flowing. Configuration CFG_03 References Applicability MW_8040, MW_8345, MW_TETOPO, MW_MWTOPO, MW_ETHSVC Pre-test conditions • The Domain Controller instance is up and running normally • All the devices are upgraded to correct versions • All basic configurations are completed (e.g., NE_id, OSPF, PCEP, etc.) • The Restconf server is serviceable.
Time
Tue Jul 07 2020 11:40:33 GMT+0200 (CEST)
Exported with
Newman v4.5.7

Total
Failed
Iterations
1
0
Requests
6
0
Prerequest Scripts
12
0
Test Scripts
12
0
Assertions
6
0

Total run duration
7.7s
Total data received
0B (approx)
Average response time
212ms

Total Failures
0

Requests

TD_SSP_03-Step-1
Method
DELETE
URL
http://10.101.243.4:8181/rests/data/ietf-eth-tran-service:etht-svc/etht-svc-instances=S1_local

Mean time per request
258ms

Mean size per request
0B

Total passed tests
1
Total failed tests
0

Status code
204

Tests

Name	Pass count	Fail count
Post status check	1	0

TD_SSP_03-Step-2
Method
DELETE
URL
http://10.101.243.4:8181/rests/data/ietf-eth-tran-service:etht-svc/etht-svc-instances=S2_local

Mean time per request
325ms

Mean size per request

0B

Total passed tests
1
Total failed tests
0

Status code
204

Tests

Name	Pass count	Fail count
Post status check	1	0

TD_SSP_03-Step-3
Method
DELETE
URL
http://10.101.243.4:8181/rests/data/ietf-eth-tran-service:etht-svc/etht-svc-instances=S3_local

Mean time per request
85ms

Mean size per request
0B

Total passed tests
1
Total failed tests
0

Status code
204

Tests

Name	Pass count	Fail count
Post status check	1	0

TD_SSP_03-Step-4
Method
DELETE

URL
http://10.101.243.4:8181/rests/data/ietf-eth-tran-service:etht-svc/etht-svc-instances=S1-inter-d

Mean time per request
91ms

Mean size per request
0B

Total passed tests
1
Total failed tests
0

Status code
204

Tests

Name	Pass count	Fail count
Post status check	1	0

TD_SSP_03-Step-5
Method
DELETE
URL
http://10.101.243.4:8181/rests/data/ietf-eth-tran-service:etht-svc/etht-svc-instances=S2-inter-d

Mean time per request
211ms

Mean size per request
0B

Total passed tests
1
Total failed tests
0

Status code
204

Tests

Name	Pass count	Fail count
Post status check	1	0

TD_SSP_03-Step-6

Method
DELETE
URL
http://10.101.243.4:8181/rests/data/ietf-eth-tran-service:etht-svc/globals/etht-svc-bandwidth-profiles=bw_profile_Plugtest_eth_service

Mean time per request
305ms

Mean size per request
0B

Total passed tests
1
Total failed tests
0

Status code
204

Tests

Name	Pass count	Fail count
Post status check	1	0

4.4 TD_SSP_04 Newman Report

Collection
TD_SSP_04
Description
Interoperability Test Description Identifier TD_ SDN_SSP_02 Test Objective The service topology information is requested from the single DC under test in TD_SDN_SSP_01. The received information is checked to correctly list the newly created service. Configuration CFG_03 References Applicability MW_8040, MW_8345, MW_TETOPO, MW_MWTOPO, MW_ETHSVC Pre-test conditions • The Domain Controller instance is up and running normally • All the devices are upgraded to correct versions • All basic configurations are completed (e.g., NE_id, OSPF, PCEP, etc.) • The Restconf server is serviceable.
Time

Tue Jul 07 2020 11:42:52 GMT+0200 (CEST)
Exported with
Newman v4.5.7

Total
Failed
Iterations
1
0
Requests
1
0
Prerequest Scripts
1
0
Test Scripts
1
0
Assertions
1
0

Total run duration
1332ms
Total data received
273B (approx)
Average response time
240ms

Total Failures
0

Requests

TD_SSP_04-Step-1
Method
GET
URL
http://10.101.243.4:8181/rests/data/ietf-eth-tran-service:etht-svc

Mean time per request
240ms

Mean size per request
273B

Total passed tests
1
Total failed tests
0

Status code
404

Tests

Name	Pass count	Fail count
Response is OK	1	0

4.5 Ceragon Controller and TGA screenshots

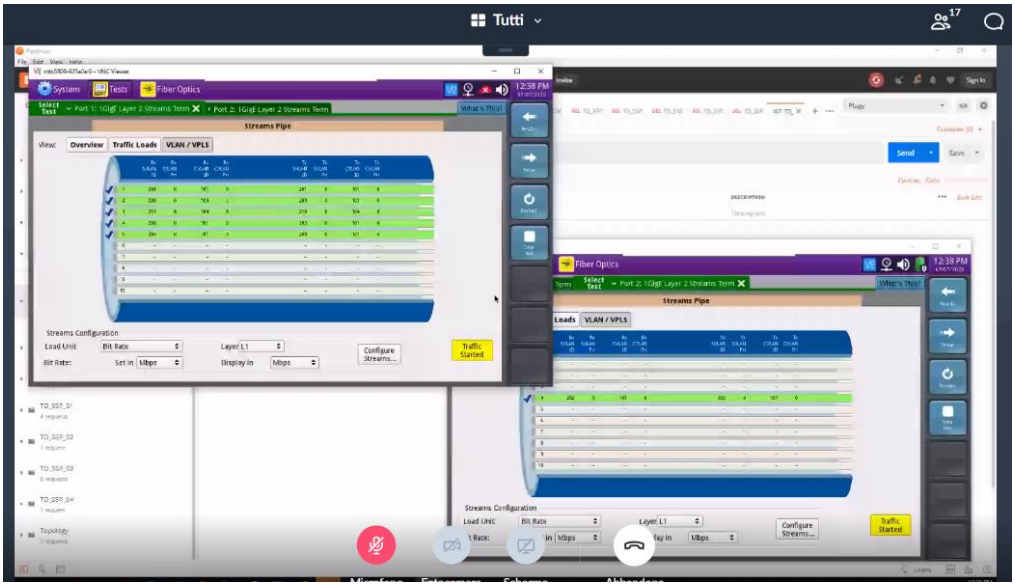

Figure 1 Ceragon TGA: services activated after TD_SSP_01 test

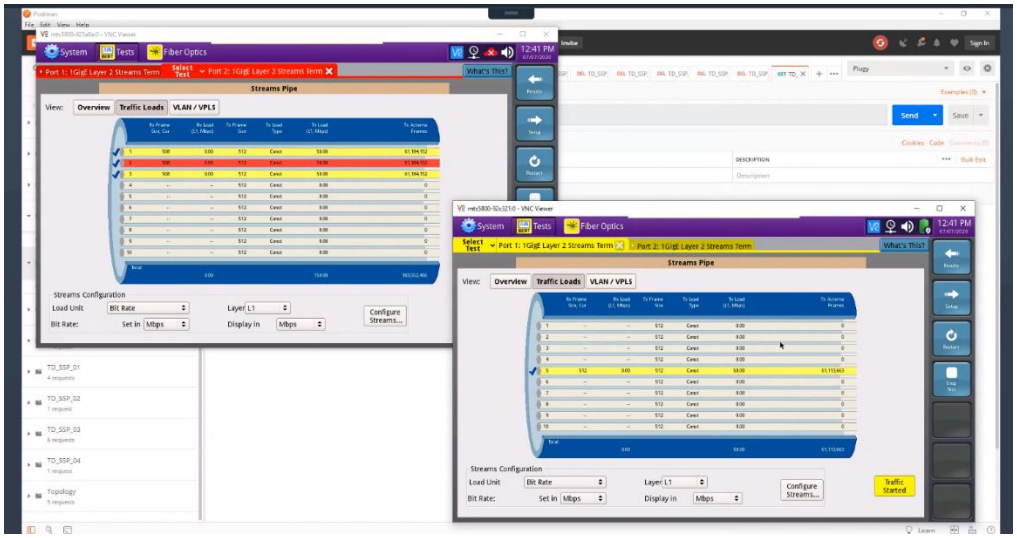

Figure 2 Ceragon TGA: services deactivated after TD_SSP_03 test

5. Ericsson Tests Results

5.1 TD_SSP_01 Newman Report

Collection
TD_SSP_01
Time
Tue Jul 07 2020 11:21:54 GMT+0200 (CEST)
Exported with
Newman v4.5.7

Total
Failed
Iterations
1
0
Requests
3
0
Prerequest Scripts
6
0
Test Scripts
6
0
Assertions
2
0

Total run duration
4.3s
Total data received
8.29KB (approx)
Average response time
338ms

Total Failures
0

Requests

TD_SSP_01-Step-1
Description
This step checks to see if two separated requests will be used, or the creation of Bandwidth Profile and Service should be done in one step only.

Method
GET
URL
https://10.101.243.1:8543/rests/data/ietf-yang-library:modules-state

Mean time per request
691ms

Mean size per request
8.29KB

Total passed tests
0
Total failed tests
0

Status code
200

TD_SSP_01-Step-2

Description
This step provides for the creation of a Bandwidth Profile. If a Provider does not support it, this step will be skipped (Step-1 will take care for that) and Test will continue with Step-3.

Method
POST
URL
https://10.101.243.1:8543/rests/data/ietf-eth-tran-service:etht-svc/globals

Mean time per request
174ms

Mean size per request
0B

Total passed tests
1
Total failed tests
0

Status code
201

Tests

Name	Pass count	Fail count
Post status check	1	0

TD_SSP_01-Step-3

Description

It sends a POST request in order to create the actual service. This step (as Step-2) will be executed only if it is supported. Otherwise Step-1 will continue with Step-3. After the execution of this step, Step-3 will be skipped.

Method
POST
URL
https://10.101.243.1:8543/rests/data/ietf-eth-tran-service:etht-svc

Mean time per request
151ms

Mean size per request
0B

Total passed tests
1
Total failed tests
0

Status code
201

Tests

Name	Pass count	Fail count
Post status check	1	0

5.2 TD_SSP_02 Newman Report

Collection
TD_SSP_02
Description
Interoperability Test Description Identifier TD_ SDN_SSP_02 Test Objective The service topology information is requested from the single DC under test in TD_SDN_SSP_01. The received information is checked to correctly list the newly created service. Configuration CFG_03 References Applicability MW_8040, MW_8345, MW_TETOPO, MW_MWTOPO, MW_ETHSVC Pre-test conditions • The Domain Controller instance is up and running normally • All the devices are upgraded to correct versions • All basic configurations are completed (e.g., NE_id, OSPF, PCEP, etc.) • The Restconf server is serviceable.
Time
Tue Jul 07 2020 11:23:45 GMT+0200 (CEST)
Exported with
Newman v4.5.7

Total
Failed
Iterations
1
0
Requests
1
0
Prerequest Scripts
1
0
Test Scripts
1
0
Assertions
16
0

Total run duration
1718ms
Total data received
4.64KB (approx)
Average response time
544ms

Total Failures
0

Requests

TD_SSP_02-Step-1
Method
GET
URL
https://10.101.243.1:8543/rests/data/ietf-eth-tran-service:etht-svc

Mean time per request
544ms

Mean size per request
4.64KB

Total passed tests
16
Total failed tests
0

Status code
200

Tests

Name	Pass count	Fail count
Response is OK	1	0
validate Response Body	1	0
Validate Response Body for "globals" node	1	0
Bandwidth profile existence check	1	0
Bandwidth profile values check	1	0
Validate Response Body for "etht-svc-instances" array	1	0
Service existence check for service S1_local	1	0
Validating Service Values for service S1_local	1	0
Service existence check for service S2_local	1	0
Validating Service Values for service S2_local	1	0
Service existence check for service S3_local	1	0
Validating Service Values for service S3_local	1	0
Service existence check for service S1-inter-d	1	0
Validating Service Values for service S1-inter-d	1	0
Service existence check for service S2-inter-d	1	0
Validating Service Values for service S2-inter-d	1	0

5.3 TD_SSP_03 Newman Report

Collection
TD_SSP_03
Description
Interoperability Test Description Identifier TD_ SDN_SSP_03 Test Objective Delete the specified L2 data service over a single domain. The traffic generator/analyzer confirms that data stops flowing. Configuration CFG_03 References Applicability MW_8040, MW_8345, MW_TETOPO, MW_MWTOPO, MW_ETHSVC Pre-test conditions • The Domain Controller instance is up and running normally • All the devices are upgraded to correct versions • All basic configurations are completed (e.g., NE_id, OSPF, PCEP, etc.) • The Restconf server is serviceable.
Time
Tue Jul 07 2020 11:25:08 GMT+0200 (CEST)
Exported with
Newman v4.5.7

Total
Failed
Iterations
1
0
Requests
6
0
Prerequest Scripts
12
0
Test Scripts
12
0
Assertions
6
0

Total run duration
7.9s
Total data received
0B (approx)
Average response time
243ms

Total Failures
0

Requests

TD_SSP_03-Step-1
Method
DELETE
URL
https://10.101.243.1:8543/rests/data/ietf-eth-tran-service:etht-svc/etht-svc-instances=S1_local

Mean time per request
526ms

Mean size per request
0B

Total passed tests
1
Total failed tests
0

Status code
204

Tests

Name	Pass count	Fail count
Post status check	1	0

TD_SSP_03-Step-2
Method
DELETE
URL
https://10.101.243.1:8543/rests/data/ietf-eth-tran-service:etht-svc/etht-svc-instances=S2_local

Mean time per request
616ms

Mean size per request
0B

Total passed tests
1
Total failed tests
0

Status code
204

Tests

Name	Pass count	Fail count
Post status check	1	0

TD_SSP_03-Step-3

Method
DELETE
URL
https://10.101.243.1:8543/rests/data/ietf-eth-tran-service:etht-svc/etht-svc-instances=S3_local

Mean time per request
78ms

Mean size per request
0B

Total passed tests
1
Total failed tests
0

Status code
204

Tests

Name	Pass count	Fail count
Post status check	1	0

TD_SSP_03-Step-4

Method
DELETE
URL
https://10.101.243.1:8543/rests/data/ietf-eth-tran-service:etht-svc/etht-svc-instances=S1-inter-d

Mean time per request
81ms

Mean size per request
0B

Total passed tests
1
Total failed tests
0

Status code
204

Tests

Name	Pass count	Fail count
Post status check	1	0

TD_SSP_03-Step-5

Method
DELETE
URL
https://10.101.243.1:8543/rests/data/ietf-eth-tran-service:etht-svc/etht-svc-instances=S2-inter-d

Mean time per request
77ms

Mean size per request
0B

Total passed tests
1
Total failed tests
0

Status code
204

Tests

Name	Pass count	Fail count
Post status check	1	0

TD_SSP_03-Step-6

Method
DELETE
URL
https://10.101.243.1:8543/rests/data/ietf-eth-tran-service:etht-svc/globals/etht-svc-bandwidth-profiles=bw_profile_Plugtest_eth_service

Mean time per request
82ms

Mean size per request
0B

Total passed tests
1
Total failed tests
0

Status code
204

Tests

Name	Pass count	Fail count
Post status check	1	0

5.4 TD_SSP_04 Newman Report

Collection
TD_SSP_04
Description
Interoperability Test Description Identifier TD_ SDN_SSP_02 Test Objective The service topology information is requested from the single DC under test in TD_SDN_SSP_01. The received information is checked to correctly list the newly created service. Configuration CFG_03 References Applicability MW_8040, MW_8345, MW_TETOPO, MW_MWTOPO, MW_ETHSVC Pre-test conditions • The Domain Controller instance is up and running normally • All the devices are upgraded to correct versions • All basic configurations are completed (e.g., NE_id, OSPF, PCEP, etc.) • The Restconf server is serviceable.
Time
Tue Jul 07 2020 11:26:30 GMT+0200 (CEST)
Exported with
Newman v4.5.7

Total
Failed
Iterations
1
0
Requests
1
0
Prerequest Scripts
1
0
Test Scripts
1
0
Assertions

2
0

Total run duration
1601ms
Total data received
49B (approx)
Average response time
468ms

Total Failures
0

Requests

TD_SSP_04-Step-1
Method
GET
URL
https://10.101.243.1:8543/rests/data/ietf-eth-tran-service:etht-svc

Mean time per request
468ms

Mean size per request
49B

Total passed tests
2
Total failed tests
0

Status code
200

Tests

Name	Pass count	Fail count
Response is OK	1	0
validate Response Body	1	0

5.5 Ericsson Controller and TGA Screenshots

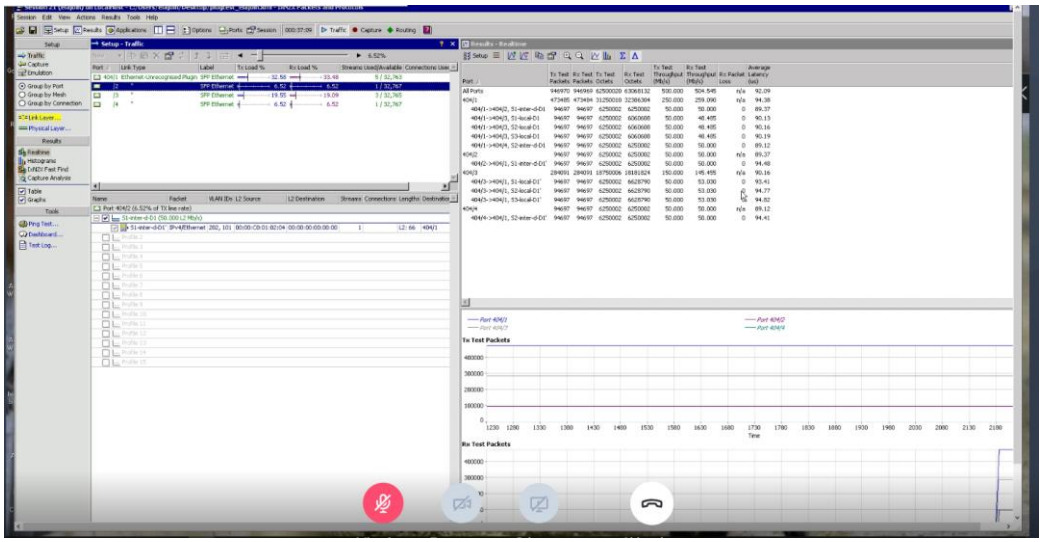

Figure 3 Ericsson TGA: traffic flows after TD_SSP_01 test

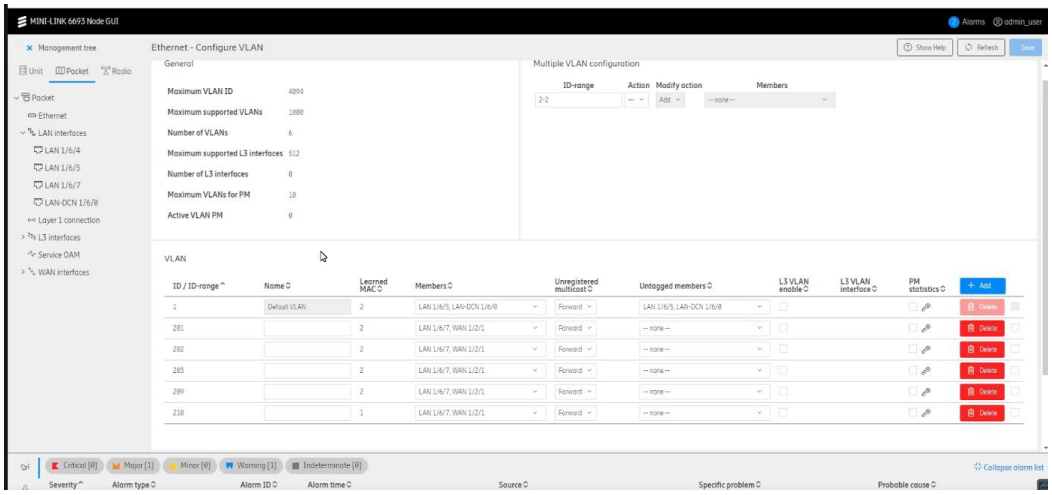

Figure 4 Ericsson Controller: list of active services after TD_SSP_01 test execution

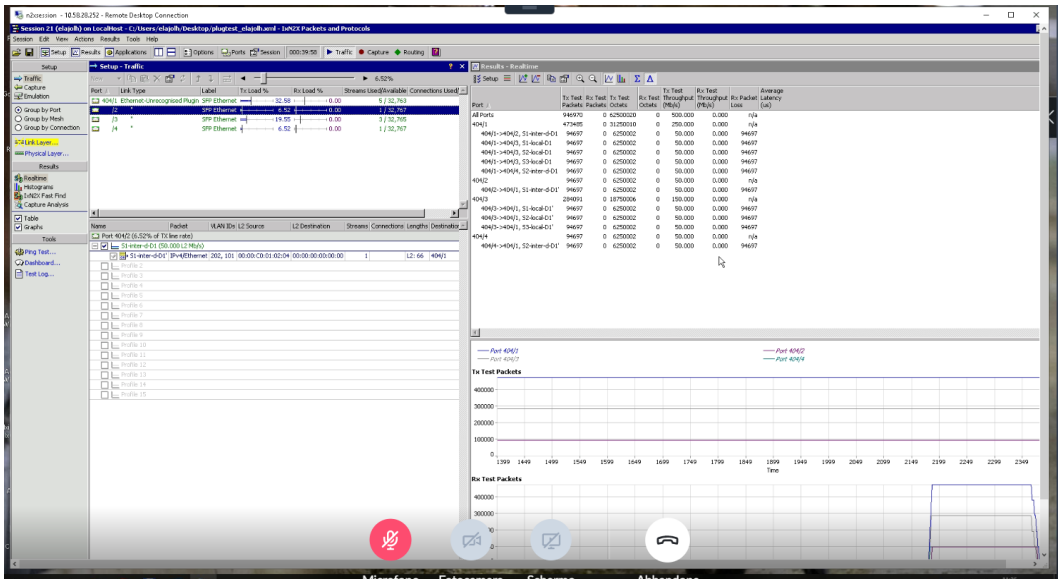

Figure 5 Ericsson TGA: flows status after service deletion test (TD_SSP_03)

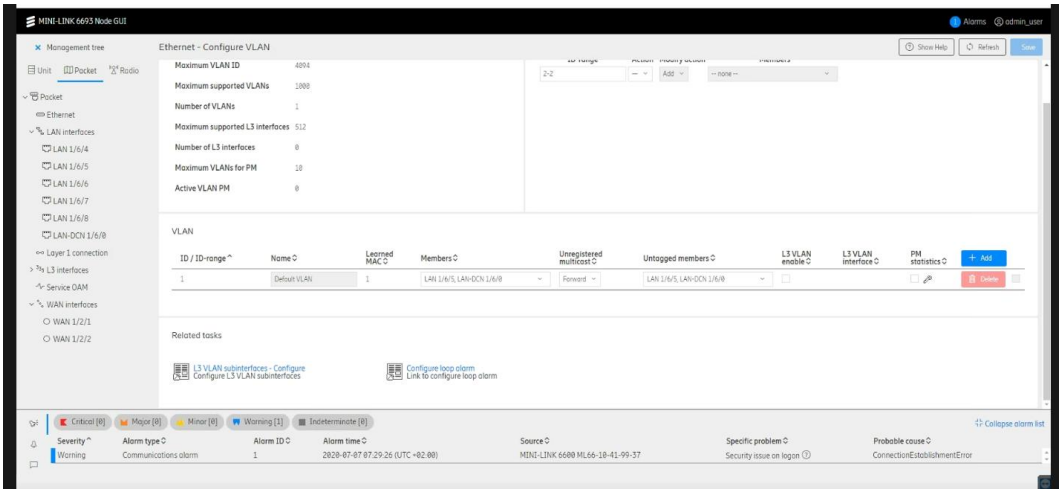

Figure 6 Ericsson Controller: list of active services after TD_SSP_03 deletion test

6. Huawei Tests Results

The tests executed by Huawei have been conducted in a full remotized way. The results are retrieved by the Huawei Postman Client located at the Huawei Bench.

6.1 TD_SSP_01 Newman Report

Collection
TD_SSP_01
Time
Tue Jul 07 2020 10:39:41 GMT+0200 (CEST)
Exported with
Newman v4.6.0

Total
Failed
Iterations
1
0
Requests
2
0
Prerequest Scripts
4
0
Test Scripts
4
0
Assertions
1
0

Total run duration
2.4s
Total data received
4.81KB (approx)
Average response time
71ms

Total Failures
0

Requests

TD_SSP_01-Step-1
Description
This step checks to see if two separated requests will be used, or the creation of Bandwidth Profile and Service should be done in one step only.

Method
GET
URL
https://129.9.170.13:32018/restconf/data/ietf-yang-library:modules-state

Mean time per request
102ms

Mean size per request
4.81KB

Total passed tests
0
Total failed tests
0

Status code
200

TD_SSP_01-Step-3-2
Description
Another version of TD_SSP_01-Step-3, which uses integrated bandwidth profile and ietf-eth-tran-service@2019-11-03.yang

Method
POST
URL
https://129.9.170.13:32018/restconf/data/ietf-eth-tran-service:etht-svc

Mean time per request
40ms

Mean size per request
0B

Total passed tests
1
Total failed tests
0

Status code
201

Tests

Name	Pass count	Fail count
Post status check	1	0

6.2 TD_SSP_02 Newman Report

Collection
TD_SSP_02
Description
Interoperability Test Description Identifier TD_ SDN_SSP_02 Test Objective The service topology information is requested from the single DC under test in TD_SDN_SSP_01. The received information is checked to correctly list the newly created service. Configuration CFG_03 References Applicability MW_8040, MW_8345, MW_TETOPO, MW_MWTOPO, MW_ETHSVC Pre-test conditions • The Domain Controller instance is up and running normally • All the devices are upgraded to correct versions • All basic configurations are completed (e.g., NE_id, OSPF, PCEP, etc.) • The Restconf server is serviceable.
Time

Tue Jul 07 2020 10:50:02 GMT+0200 (CEST)
Exported with
Newman v4.6.0

Total
Failed
Iterations
1
0
Requests
1
0
Prerequest Scripts
1
0
Test Scripts
1
0
Assertions
15
0

Total run duration
1278ms
Total data received
6.15KB (approx)
Average response time
110ms

Total Failures
0

Requests

TD_SSP_02-Step-1
Method
GET
URL
https://129.9.170.13:32018/restconf/data/ietf-eth-tran-service:etht-svc

Mean time per request
110ms

Mean size per request
6.15KB

Total passed tests
15
Total failed tests
0

Status code
200

Tests

Name	Pass count	Fail count
Response is OK	1	0
validate Response Body	1	0
Bandwidth profile existence check	1	0
Bandwidth profile values check	1	0
Validate Response Body for "etht-svc-instances" array	1	0
Service existence check for service S1_local	1	0
Validating Service Values for service S1_local	1	0
Service existence check for service S2_local	1	0
Validating Service Values for service S2_local	1	0
Service existence check for service S3_local	1	0
Validating Service Values for service S3_local	1	0
Service existence check for service S1-inter-d	1	0
Validating Service Values for service S1-inter-d	1	0
Service existence check for service S2-inter-d	1	0
Validating Service Values for service S2-inter-d	1	0

6.3 TD_SSP_03 Newman Report

Collection
TD_SSP_03
Description
Interoperability Test Description Identifier TD_ SDN_SSP_03 Test Objective Delete the specified L2 data service over a single domain. The traffic generator/analyzer confirms that data stops flowing. Configuration CFG_03 References Applicability MW_8040, MW_8345, MW_TETOPO, MW_MWTOPO, MW_ETHSVC Pre-test conditions • The Domain Controller instance is up and running normally • All the devices are upgraded to correct versions • All basic configurations are completed (e.g., NE_id, OSPF, PCEP, etc.) • The Restconf server is serviceable.
Time
Tue Jul 07 2020 10:50:36 GMT+0200 (CEST)
Exported with
Newman v4.6.0

Total
Failed
Iterations
1
0
Requests
6
0
Prerequest Scripts
12
0
Test Scripts
12
0
Assertions
6
0

Total run duration
6.6s
Total data received
642B (approx)
Average response time
29ms

Total Failures
0

Requests

TD_SSP_03-Step-1
Method
DELETE
URL
https://129.9.170.13:32018/restconf/data/ietf-eth-tran-service:etht-svc/etht-svc-instances=S1_local

Mean time per request
103ms

Mean size per request
0B

Total passed tests
1
Total failed tests
0

Status code
204

Tests

Name	Pass count	Fail count
Post status check	1	0

TD_SSP_03-Step-2
Method
DELETE
URL
https://129.9.170.13:32018/restconf/data/ietf-eth-tran-service:etht-svc/etht-svc-instances=S2_local

Mean time per request
14ms

Mean size per request
0B

Total passed tests
1
Total failed tests
0

Status code
204

Tests

Name	Pass count	Fail count
Post status check	1	0

TD_SSP_03-Step-3

Method
DELETE
URL
https://129.9.170.13:32018/restconf/data/ietf-eth-tran-service:etht-svc/etht-svc-instances=S3_local

Mean time per request
13ms

Mean size per request
0B

Total passed tests
1
Total failed tests
0

Status code
204

Tests

Name	Pass count	Fail count
Post status check	1	0

TD_SSP_03-Step-4

Method
DELETE
URL
https://129.9.170.13:32018/restconf/data/ietf-eth-tran-service:etht-svc/etht-svc-instances=S1-inter-d

Mean time per request
12ms

Mean size per request
0B

Total passed tests
1
Total failed tests
0

Status code
204

Tests

Name	Pass count	Fail count
Post status check	1	0

TD_SSP_03-Step-5

Method
DELETE
URL
https://129.9.170.13:32018/restconf/data/ietf-eth-tran-service:etht-svc/etht-svc-instances=S2-inter-d

Mean time per request
26ms

Mean size per request
0B

Total passed tests
1
Total failed tests
0

Status code
204

Tests

Name	Pass count	Fail count
Post status check	1	0

TD_SSP_03-Step-6

Method
DELETE
URL
https://129.9.170.13:32018/restconf/data/ietf-eth-tran-service:etht-svc/globals/etht-svc-bandwidth-profiles=bw_profile_Plugtest_eth_service

Mean time per request
9ms

Mean size per request
642B

Total passed tests
1
Total failed tests
0

Status code
404

Tests

Name	Pass count	Fail count
Post status check	1	0

6.4 TD_SSP_04 Newman Report

Collection
TD_SSP_04
Description
Interoperability Test Description Identifier TD_ SDN_SSP_02 Test Objective The service topology information is requested from the single DC under test in TD_SDN_SSP_01. The received information is checked to correctly list the newly created service. Configuration CFG_03 References Applicability MW_8040, MW_8345, MW_TETOPO, MW_MWTOPO, MW_ETHSVC Pre-test conditions • The Domain Controller instance is up and running normally • All the devices are upgraded to correct versions • All basic configurations are completed (e.g., NE_id, OSPF, PCEP, etc.) • The Restconf server is serviceable.
Time
Tue Jul 07 2020 10:51:28 GMT+0200 (CEST)
Exported with
Newman v4.6.0

Total
Failed
Iterations
1
0
Requests
1
0
Prerequest Scripts
1
0
Test Scripts
1

0
Assertions
8
0

Total run duration
1235ms
Total data received
60B (approx)
Average response time
102ms

Total Failures
0

Requests

TD_SSP_04-Step-1
Method
GET
URL
https://129.9.170.13:32018/restconf/data/ietf-eth-tran-service:etht-svc

Mean time per request
102ms

Mean size per request
60B

Total passed tests
8
Total failed tests
0

Status code
200

Tests

Name	Pass count	Fail count
Response is OK	1	0
validate Response Body	1	0
Service non existence check: S1_local	1	0

Name	Pass count	Fail count
Service non existence check: S2_local	1	0
Service non existence check: S3_local	1	0
Service non existence check: S1-inter-d	1	0
Service non existence check: S2-inter-d	1	0
Validate Response Body for "etht-svc-instances" array	1	0

6.5 Huawei Controller and TGA Screenshots

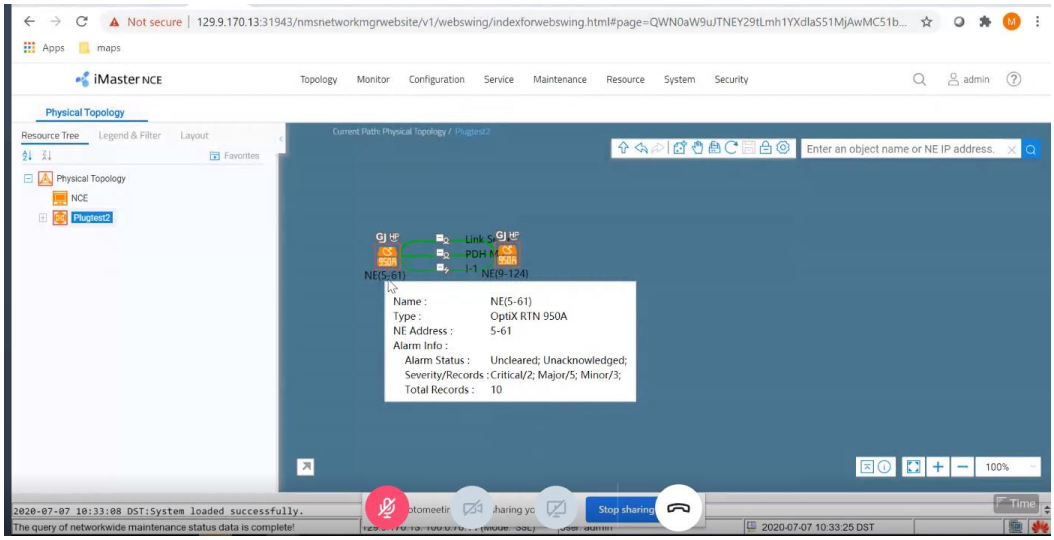

Figure 7 Huawei Controller: physical topology

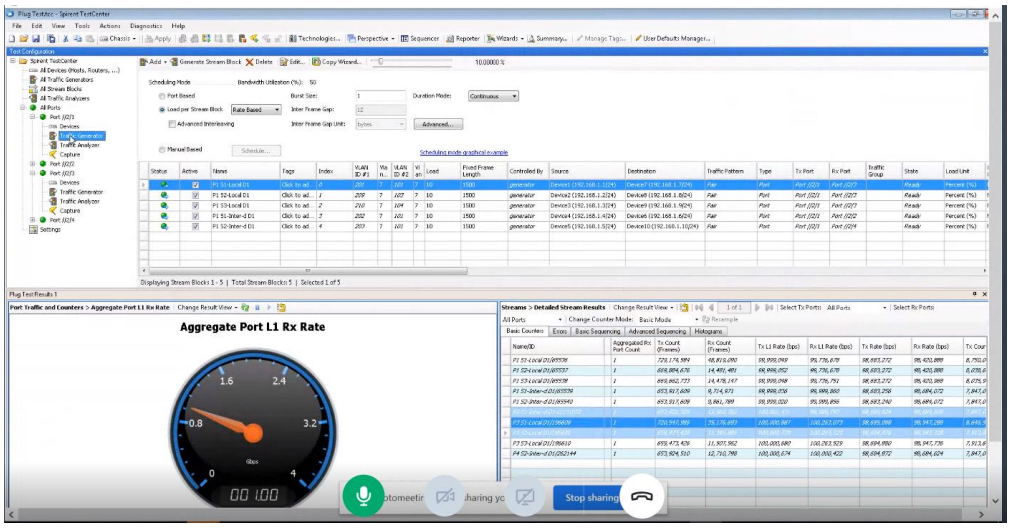

Figure 8 Huawei TGA: traffic flows after execution of test TD_SSP_01

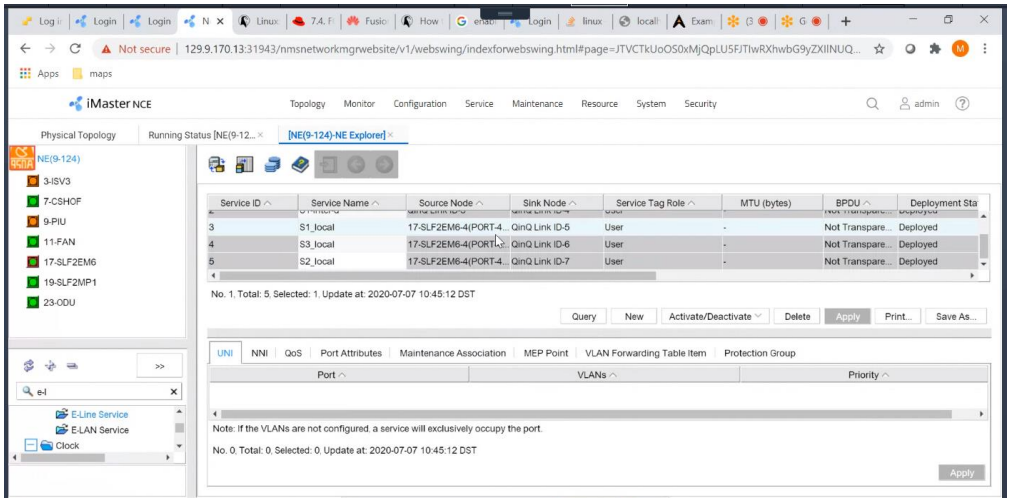

Figure 9 Huawei Controller: list of active services after execution of test TD_SSP_01

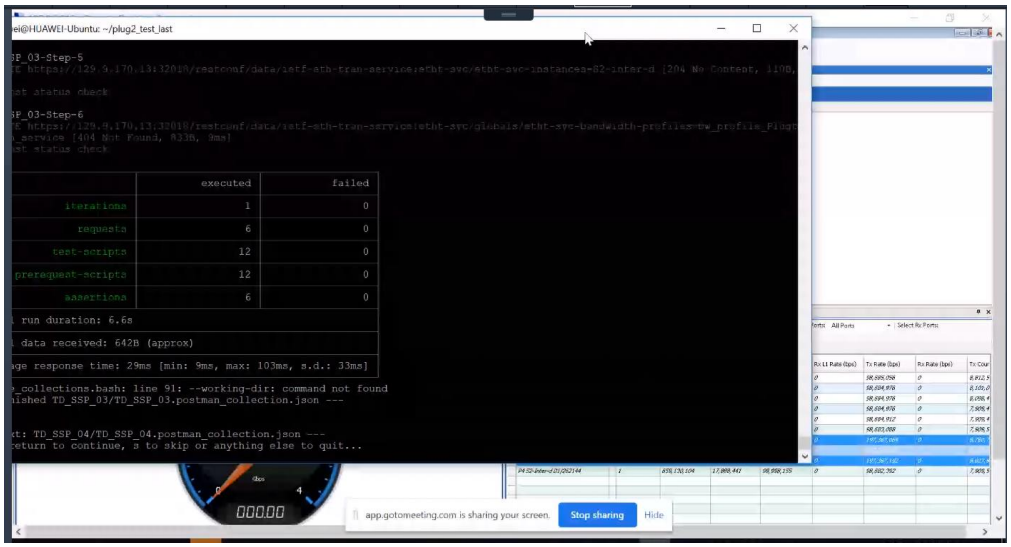

Figure 10 Huawei TGA: traffic flows status after service deletion (test TD_SSP_03)

7. Intracom Tests Results

The Intracom Provisioning Tests followed a different sequence of tests. TD_SSP_01 is executed normally. For Intracom domain only, this activates the 'S1-inter-d', 'S2-inter-d', 'S1-local'. TD_SSP_02 is run in order to verify the three services. Then, TD_SSP_01_ICOM_LOCAL is run which deactivates the 'S1-local' and activates the 'S2-local' service. TD_SSP_01_ICOM_LOCAL is run again which deactivates the 'S2-local' service and activates the 'S3-local' service. TD_SSP_03 and TD_SSP_04 are executed normally. The sequence of tests is the following: TD_SSP_01, TD_SSP_02, TD_SSP_01_ICOM_LOCAL, TD_SSP_01_ICOM_LOCAL, TD_SSP_03, TD_SSP_04.

7.1 TD_SSP_01 Newman Report

Collection
TD_SSP_01
Time
Wed Jul 08 2020 10:39:15 GMT+0200 (CEST)
Exported with
Newman v4.5.7

Total
Failed
Iterations
1
0
Requests
3
0
Prerequest Scripts
6
0
Test Scripts
6
0
Assertions
2
0

Total run duration
7s
Total data received
2.01KB (approx)
Average response time
1221ms

Total Failures
0

Requests

TD_SSP_01-Step-1
Description

This step checks to see if two separated requests will be used, or the creation of Bandwidth Profile and Service should be done in one step only.

Method
GET
URL
https://172.24.2.10/restconf/data/ietf-yang-library:modules-state

Mean time per request
344ms

Mean size per request
2.01KB

Total passed tests
0
Total failed tests
0

Status code
200

TD_SSP_01-Step-2

Description
This step provides for the creation of a Bandwidth Profile. If a Provider does not support it, this step will be skipped (Step-1 will take care for that) and Test will continue with Step-3.

Method
POST
URL
https://172.24.2.10/restconf/data/ietf-eth-tran-service:etht-svc/globals

Mean time per request
103ms

Mean size per request
0B

Total passed tests
1
Total failed tests
0

Status code
201

Tests

Name	Pass count	Fail count
Post status check	1	0

TD_SSP_01-Step-3

Description
It sends a POST request in order to create the actual service. This step (as Step-2) will be executed only if it is supported. Otherwise Step-1 will continue with Step-3. After the execution of this step, Step-3 will be skipped.

Method
POST
URL
https://172.24.2.10/restconf/data/ietf-eth-tran-service:etht-svc

Mean time per request
3.2s

Mean size per request
0B

Total passed tests
1
Total failed tests
0

Status code
201

Tests

Name	Pass count	Fail count
Post status check	1	0

7.2 TD_SSP_02 Newman Report

Collection
TD_SSP_02
Description
Interoperability Test Description Identifier TD_ SDN_SSP_02 Test Objective The service topology information is requested from the single DC under test in TD_SDN_SSP_01. The received information is checked to correctly list the newly created service. Configuration CFG_03 References Applicability MW_8040, MW_8345, MW_TETOPO, MW_MWTOPO, MW_ETHSVC Pre-test conditions • The

Domain Controller instance is up and running normally • All the devices are upgraded to correct versions • All basic configurations are completed (e.g., NE_id, OSPF, PCEP, etc.) • The Restconf server is serviceable.
Time
Wed Jul 08 2020 10:42:27 GMT+0200 (CEST)
Exported with
Newman v4.5.7

Total
Failed
Iterations
1
0
Requests
1
0
Prerequest Scripts
1
0
Test Scripts
1
0
Assertions
16
0

Total run duration
1584ms
Total data received
4.45KB (approx)
Average response time
417ms

Total Failures
0

Requests

TD_SSP_02-Step-1
Method
GET
URL
https://172.24.2.10/restconf/data/ietf-eth-tran-service:etht-svc

Mean time per request
417ms

Mean size per request
4.45KB

Total passed tests
16

Total failed tests
0

Status code
200

Tests

Name	Pass count	Fail count
Response is OK	1	0
validate Response Body	1	0
Validate Response Body for "globals" node	1	0
Bandwidth profile existence check	1	0
Bandwidth profile values check	1	0
Validate Response Body for "etht-svc-instances" array	1	0
Service existence check for service S1_local	1	0
Validating Service Values for service S1_local	1	0
Service existence check for service S2_local	1	0
Validating Service Values for service S2_local	1	0
Service existence check for service S3_local	1	0
Validating Service Values for service S3_local	1	0
Service existence check for service S1-inter-d	1	0
Validating Service Values for service S1-inter-d	1	0

Name	Pass count	Fail count
Service existence check for service S2-inter-d	1	0
Validating Service Values for service S2-inter-d	1	0

7.3 TD_SSP_01_ICOM_LOCAL Newman Report

Collection
TD_SSP_01_ICOM_LOCAL
Time
Wed Jul 08 2020 10:46:32 GMT+0200 (CEST)
Exported with
Newman v4.5.7

Total
Failed
Iterations
1
0
Requests
1
0
Prerequest Scripts
2
0
Test Scripts
2
0
Assertions
1
0

Total run duration
3.9s
Total data received
0B (approx)
Average response time
2.7s

Total Failures
0

Requests

TD_SSP_01-Step-1-PUT
Description

It sends a POST request in order to create the actual service. This step (as Step-2) will be executed only if it is supporded. Otherwise Step-1 will continue with Step-4. After the execution of this step, Step-4 will be skipped, and we will continue with Step-5.

Method
PUT
URL
https://172.24.2.10/restconf/data/ietf-eth-tran-service:etht-svc

Mean time per request
2.7s

Mean size per request
0B

Total passed tests
1
Total failed tests
0

Status code
201

Tests

Name	Pass count	Fail count
Post status check	1	0

7.4 TD_SSP_03 Newman Report

Collection
TD_SSP_03
Description
Interoperability Test Description Identifier TD_ SDN_SSP_03 Test Objective Delete the specified L2 data service over a single domain. The traffic generator/analyzer confirms that data stops flowing. Configuration CFG_03 References Applicability MW_8040, MW_8345, MW_TETOPO, MW_MWTOPO, MW_ETHSVC Pre-test conditions • The Domain Controller instance is up and running normally • All the devices are upgraded to correct versions • All basic configurations are completed (e.g., NE_id, OSPF, PCEP, etc.) • The Restconf server is serviceable.
Time
Wed Jul 08 2020 10:49:02 GMT+0200 (CEST)
Exported with
Newman v4.5.7

Total

Failed
Iterations
1
0
Requests
6
0
Prerequest Scripts
12
0
Test Scripts
12
0
Assertions
6
0

Total run duration
11.9s
Total data received
0B (approx)
Average response time
916ms

Total Failures
0

Requests

TD_SSP_03-Step-1
Method
DELETE
URL
https://172.24.2.10/restconf/data/ietf-eth-tran-service:etht-svc/etht-svc-instances=S1_local

Mean time per request
1060ms

Mean size per request
0B

Total passed tests
1
Total failed tests
0

Status code
204

Tests

Name	Pass count	Fail count
Post status check	1	0

TD_SSP_03-Step-2

Method
DELETE
URL
https://172.24.2.10/restconf/data/ietf-eth-tran-service:etht-svc/etht-svc-instances=S2_local

Mean time per request
818ms

Mean size per request
0B

Total passed tests
1
Total failed tests
0

Status code
204

Tests

Name	Pass count	Fail count
Post status check	1	0

TD_SSP_03-Step-3

Method
DELETE
URL
https://172.24.2.10/restconf/data/ietf-eth-tran-service:etht-svc/etht-svc-instances=S3_local

Mean time per request
1463ms

Mean size per request
0B

Total passed tests
1
Total failed tests
0

Status code
204

Tests

Name	Pass count	Fail count
Post status check	1	0

TD_SSP_03-Step-4

Method
DELETE
URL
https://172.24.2.10/restconf/data/ietf-eth-tran-service:etht-svc/etht-svc-instances=S1-inter-d

Mean time per request
1054ms

Mean size per request
0B

Total passed tests
1
Total failed tests
0

Status code
204

Tests

Name	Pass count	Fail count
Post status check	1	0

TD_SSP_03-Step-5

Method
DELETE
URL
https://172.24.2.10/restconf/data/ietf-eth-tran-service:etht-svc/etht-svc-instances=S2-inter-d

Mean time per request
1019ms

Mean size per request

0B

Total passed tests
1
Total failed tests
0

Status code
204

Tests

Name	Pass count	Fail count
Post status check	1	0

TD_SSP_03-Step-6
Method
DELETE
URL
https://172.24.2.10/restconf/data/ietf-eth-tran-service:etht-svc/globals/etht-svc-bandwidth-profiles=bw_profile_Plugtest_eth_service

Mean time per request
86ms

Mean size per request
0B

Total passed tests
1
Total failed tests
0

Status code
204

Tests

Name	Pass count	Fail count
Post status check	1	0

7.5 TD_SSP_04 Newman Report

Collection
TD_SSP_04
Description
Interoperability Test Description Identifier TD_ SDN_SSP_02 Test Objective The service topology information is requested from the single DC under test in TD_SDN_SSP_01. The received information is checked to correctly list the newly created service. Configuration CFG_03 References Applicability MW_8040, MW_8345, MW_TETOPO, MW_MWTOPO, MW_ETHSVC Pre-test conditions • The Domain Controller instance is up and running normally • All the devices are upgraded to correct versions • All basic configurations are completed (e.g., NE_id, OSPF, PCEP, etc.) • The Restconf server is serviceable.
Time
Wed Jul 08 2020 10:50:58 GMT+0200 (CEST)
Exported with
Newman v4.5.7

Total
Failed
Iterations
1
0
Requests
1
0
Prerequest Scripts
1
0
Test Scripts
1
0
Assertions
8
0

Total run duration
1475ms
Total data received
108B (approx)
Average response time
340ms

Total Failures
0

Requests

TD_SSP_04-Step-1
Method
GET
URL
https://172.24.2.10/restconf/data/ietf-eth-tran-service:etht-svc

Mean time per request
340ms

Mean size per request
108B

Total passed tests
8
Total failed tests
0

Status code
200

Tests

Name	Pass count	Fail count
Response is OK	1	0
validate Response Body	1	0
Service non existence check: S1_local	1	0
Service non existence check: S2_local	1	0
Service non existence check: S3_local	1	0
Service non existence check: S1-inter-d	1	0
Service non existence check: S2-inter-d	1	0
Validate Response Body for "etht-svc-instances" array	1	0

7.6 Intracom Controller and TGA Screenshots

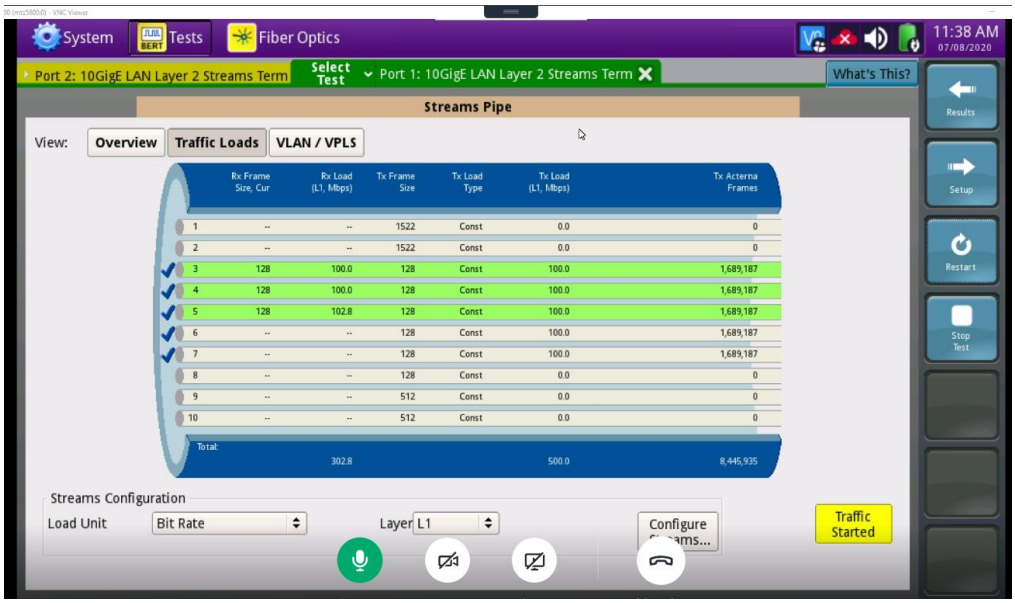

Figure 11 Intracom TGA: traffic flows status after execution of TD_SSP_01

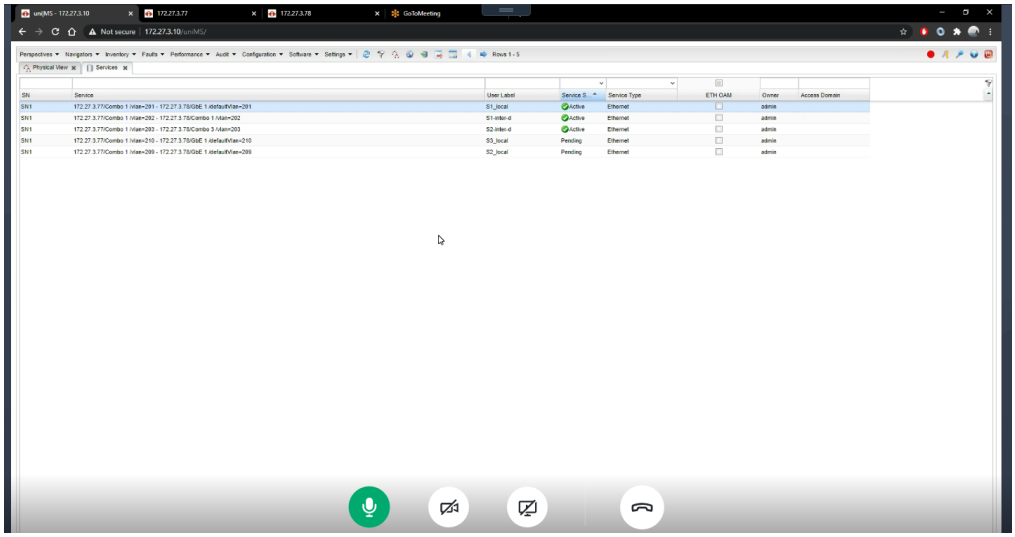

Figure 12 Intracom Controller: list of active and pending services after execution of TD_SSP_01 test

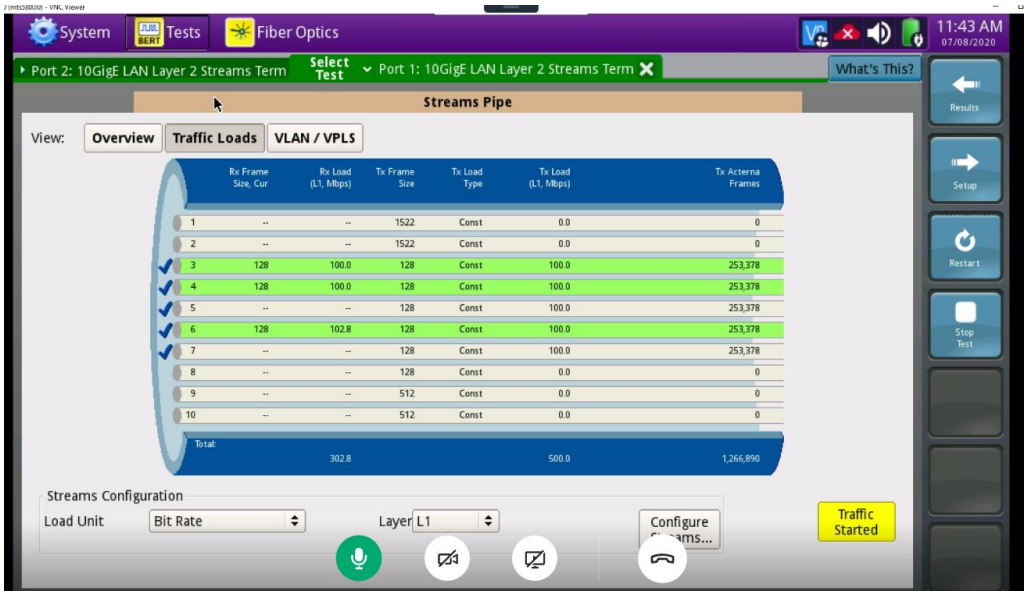

Figure 13 Intracom TGA: traffic flows status after first execution of TD_SSP_01_ICOM_LOCAL

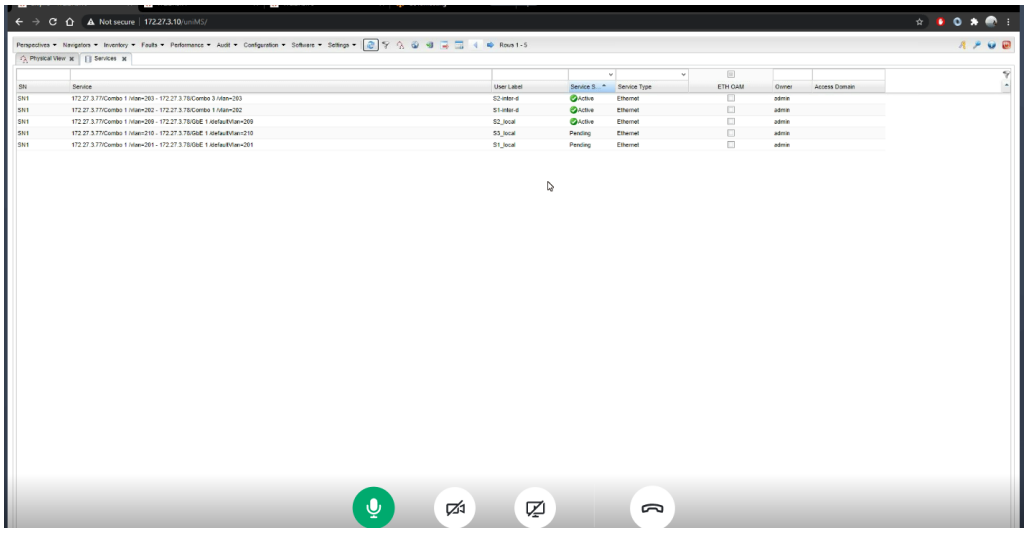

Figure 14 Intracom Controller: list of active services after first execution of TD_SSP_01_ICOM_LOCAL

Figure 15 Intracom TGA: traffic flows status after second execution of TD_SSP_01_ICOM_LOCAL

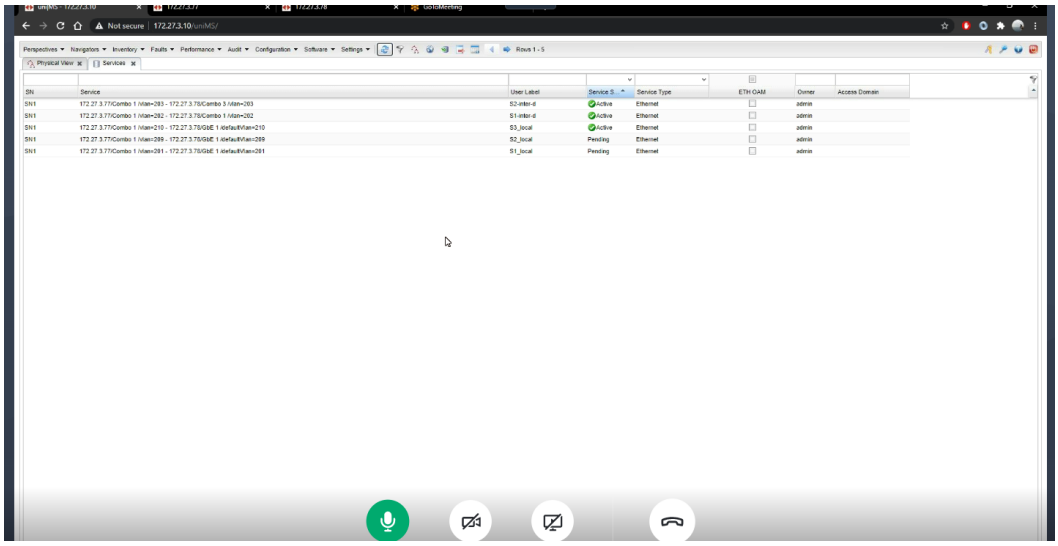

Figure 16 Intracom Controller: active services after second execution of TD_SSP_01_ICOM_LOCAL

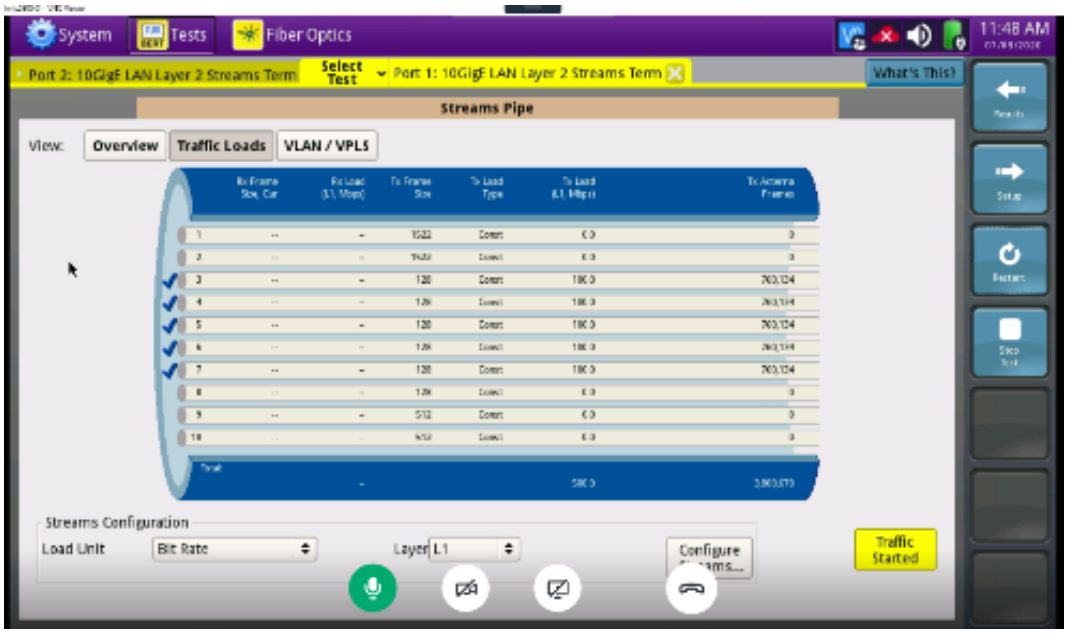

Figure 17 Intracom TGA: traffic flows status after service deletion (TD_SSP_03)

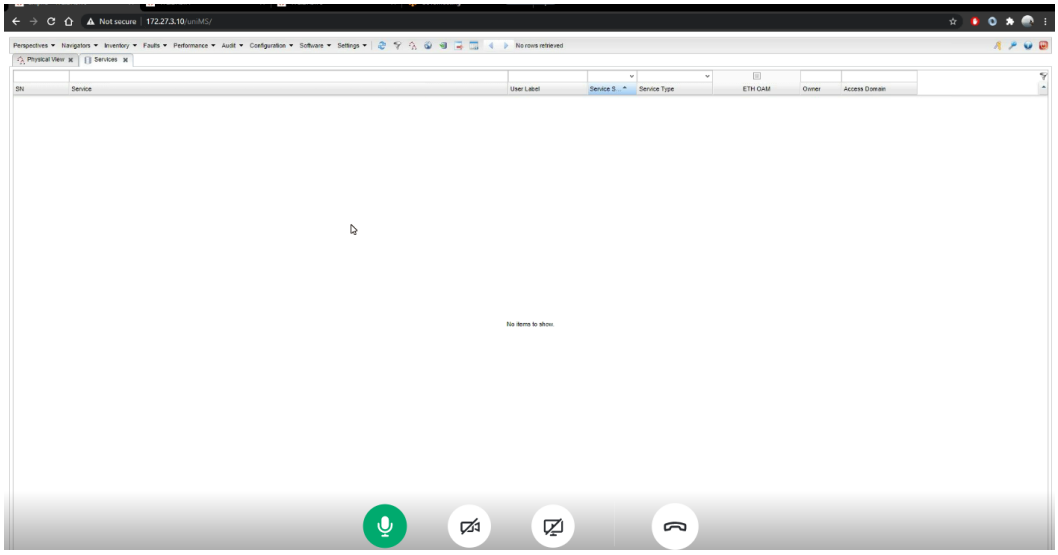

Figure 18 Intracom Controller: list of active services after service deletion tests (TD_SSP_03)

8. NEC Tests Results

8.1 TD_SSP_01 Newman Report

Collection
TD_SSP_01
Time
Tue Jul 07 2020 10:08:35 GMT+0200 (CEST)
Exported with
Newman v4.5.7

Total
Failed
Iterations
1
0
Requests
3
0
Prerequest Scripts
6
0
Test Scripts
6
0
Assertions
2
0

Total run duration
2m 1.9s
Total data received
1.5KB (approx)
Average response time
39.5s

Total Failures
0

Requests

TD_SSP_01-Step-1
Description
This step checks to see if two separated requests will be used, or the creation of Bandwidth Profile and Service should be done in one step only.

Method
GET
URL

https://10.101.243.4:8376/restconf/data/ietf-yang-library:modules-state

Mean time per request
5.9s

Mean size per request
1.5KB

Total passed tests
0
Total failed tests
0

Status code
200

TD_SSP_01-Step-2

Description
This step provides for the creation of a Bandwidth Profile. If a Provider does not support it, this step will be skipped (Step-1 will take care for that) and Test will continue with Step-3.

Method
POST
URL
https://10.101.243.4:8376/restconf/data/ietf-eth-tran-service:etht-svc/globals

Mean time per request
931ms

Mean size per request
0B

Total passed tests
1
Total failed tests
0

Status code
201

Tests

Name	Pass count	Fail count
Post status check	1	0

TD_SSP_01-Step-3

Description

It sends a POST request in order to create the actual service. This step (as Step-2) will be executed only if it is supported. Otherwise Step-1 will continue with Step-3. After the execution of this step, Step-3 will be skipped.

Method

POST

URL

https://10.101.243.4:8376/restconf/data/ietf-eth-tran-service:etht-svc

Mean time per request

1m 51.7s

Mean size per request

10B

Total passed tests

1

Total failed tests

0

Status code

201

Tests

Name	Pass count	Fail count
Post status check	1	0

8.2 TD_SSP_02 Newman Report

Collection

TD_SSP_02

Description

Interoperability Test Description Identifier TD_ SDN_SSP_02 Test Objective The service topology information is requested from the single DC under test in TD_SDN_SSP_01. The received information is checked to correctly list the newly created service. Configuration CFG_03 References Applicability MW_8040, MW_8345, MW_TETOPO, MW_MWTOPO, MW_ETHSVC Pre-test conditions • The Domain Controller instance is up and running normally • All the devices are upgraded to correct versions • All basic configurations are completed (e.g., NE_id, OSPF, PCEP, etc.) • The Restconf server is serviceable.

Time

Tue Jul 07 2020 10:17:23 GMT+0200 (CEST)

Exported with

Newman v4.5.7

Total
Failed
Iterations
1
0
Requests
1
0
Prerequest Scripts
1
0
Test Scripts
1
0
Assertions
16
0

Total run duration
3.4s
Total data received
6.62KB (approx)
Average response time
2.2s

Total Failures
0

Requests

TD_SSP_02-Step-1
Method
GET
URL
https://10.101.243.4:8376/restconf/data/ietf-eth-tran-service:etht-svc

Mean time per request
2.2s

Mean size per request
6.62KB

Total passed tests
16
Total failed tests
0

Status code
200

Tests

Name	Pass count	Fail count
Response is OK	1	0
validate Response Body	1	0
Validate Response Body for "globals" node	1	0
Bandwidth profile existence check	1	0
Bandwidth profile values check	1	0
Validate Response Body for "etht-svc-instances" array	1	0
Service existence check for service S1_local	1	0
Validating Service Values for service S1_local	1	0
Service existence check for service S2_local	1	0
Validating Service Values for service S2_local	1	0
Service existence check for service S3_local	1	0
Validating Service Values for service S3_local	1	0
Service existence check for service S1-inter-d	1	0
Validating Service Values for service S1-inter-d	1	0
Service existence check for service S2-inter-d	1	0
Validating Service Values for service S2-inter-d	1	0

8.3 TD_SSP_03 Newman Report

Collection
TD_SSP_03
Description
Interoperability Test Description Identifier TD_ SDN_SSP_03 Test Objective Delete the specified L2 data service over a single domain. The traffic generator/analyzer confirms that data stops flowing. Configuration CFG_03 References Applicability MW_8040, MW_8345, MW_TETOPO, MW_MWTOPO, MW_ETHSVC Pre-test conditions • The Domain Controller instance is up and running normally • All the devices are upgraded to correct versions • All basic configurations are completed (e.g., NE_id, OSPF, PCEP, etc.) • The Restconf server is serviceable.
Time
Tue Jul 07 2020 10:18:58 GMT+0200 (CEST)
Exported with
Newman v4.5.7

Total
Failed
Iterations
1
0
Requests
6
0
Prerequest Scripts
12
0
Test Scripts
12
0
Assertions
6
0

Total run duration
15.2s
Total data received
0B (approx)
Average response time
1441ms

Total Failures
0

Requests

TD_SSP_03-Step-1
Method
DELETE
URL
https://10.101.243.4:8376/restconf/data/ietf-eth-tran-service:etht-svc/etht-svc-instances=S1_local

Mean time per request
3.9s

Mean size per request
0B

Total passed tests
1
Total failed tests
0

Status code
204

Tests

Name	Pass count	Fail count
Post status check	1	0

TD_SSP_03-Step-2
Method
DELETE
URL
https://10.101.243.4:8376/restconf/data/ietf-eth-tran-service:etht-svc/etht-svc-instances=S2_local

Mean time per request
1116ms

Mean size per request
0B

Total passed tests
1
Total failed tests
0

Status code
204

Tests

Name	Pass count	Fail count
Post status check	1	0

TD_SSP_03-Step-3

Method
DELETE
URL
https://10.101.243.4:8376/restconf/data/ietf-eth-tran-service:etht-svc/etht-svc-instances=S3_local

Mean time per request
1074ms

Mean size per request
0B

Total passed tests
1
Total failed tests
0

Status code
204

Tests

Name	Pass count	Fail count
Post status check	1	0

TD_SSP_03-Step-4

Method
DELETE
URL
https://10.101.243.4:8376/restconf/data/ietf-eth-tran-service:etht-svc/etht-svc-instances=S1-inter-d

Mean time per request
1111ms

Mean size per request
0B

Total passed tests
1
Total failed tests
0

Status code
204

Tests

Name	Pass count	Fail count
Post status check	1	0

TD_SSP_03-Step-5

Method
DELETE
URL
https://10.101.243.4:8376/restconf/data/ietf-eth-tran-service:etht-svc/etht-svc-instances=S2-inter-d

Mean time per request
1086ms

Mean size per request
0B

Total passed tests
1
Total failed tests
0

Status code
204

Tests

Name	Pass count	Fail count
Post status check	1	0

TD_SSP_03-Step-6

Method
DELETE
URL
https://10.101.243.4:8376/restconf/data/ietf-eth-tran-service:etht-svc/globals/etht-svc-bandwidth-profiles=bw_profile_Plugtest_eth_service

Mean time per request
347ms

Mean size per request
0B

Total passed tests
1
Total failed tests
0

Status code
204

Tests

Name	Pass count	Fail count
Post status check	1	0

8.4 TD_SSP_04 Newman Report

Collection
TD_SSP_04
Description
Interoperability Test Description Identifier TD_ SDN_SSP_02 Test Objective The service topology information is requested from the single DC under test in TD_SDN_SSP_01. The received information is checked to correctly list the newly created service. Configuration CFG_03 References Applicability MW_8040, MW_8345, MW_TETOPO, MW_MWTOPO, MW_ETHSVC Pre-test conditions • The Domain Controller instance is up and running normally • All the devices are upgraded to correct versions • All basic configurations are completed (e.g., NE_id, OSPF, PCEP, etc.) • The Restconf server is serviceable.
Time
Tue Jul 07 2020 10:21:59 GMT+0200 (CEST)
Exported with
Newman v4.5.7

Total
Failed
Iterations
1
0
Requests
1
0
Prerequest Scripts
1
0
Test Scripts
1

0
Assertions
8
0

Total run duration
2.9s
Total data received
158B (approx)
Average response time
1744ms

Total Failures
0

Requests

TD_SSP_04-Step-1
Method
GET
URL
https://10.101.243.4:8376/restconf/data/ietf-eth-tran-service:etht-svc

Mean time per request
1744ms

Mean size per request
158B

Total passed tests
8
Total failed tests
0

Status code
200

Tests

Name	Pass count	Fail count
Response is OK	1	0
validate Response Body	1	0
Service non existence check: S1_local	1	0

Name	Pass count	Fail count
Service non existence check: S2_local	1	0
Service non existence check: S3_local	1	0
Service non existence check: S1-inter-d	1	0
Service non existence check: S2-inter-d	1	0
Validate Response Body for "etht-svc-instances" array	1	0

8.5 NEC Controller and TGA Screenshots

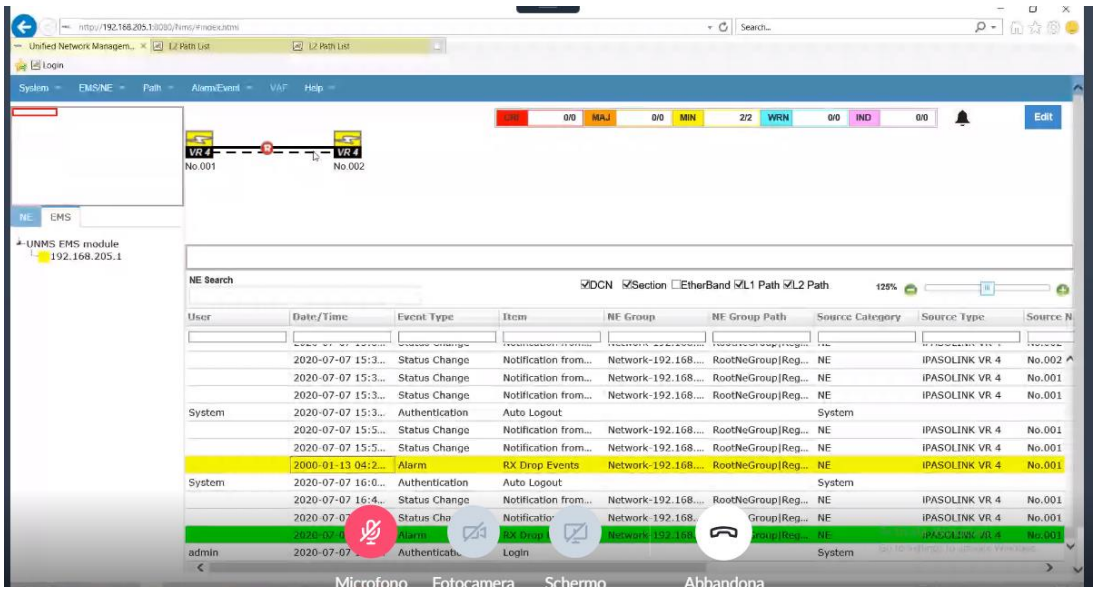

Figure 19 NEC Controller: services status before the execution of TD_SSP_01 test

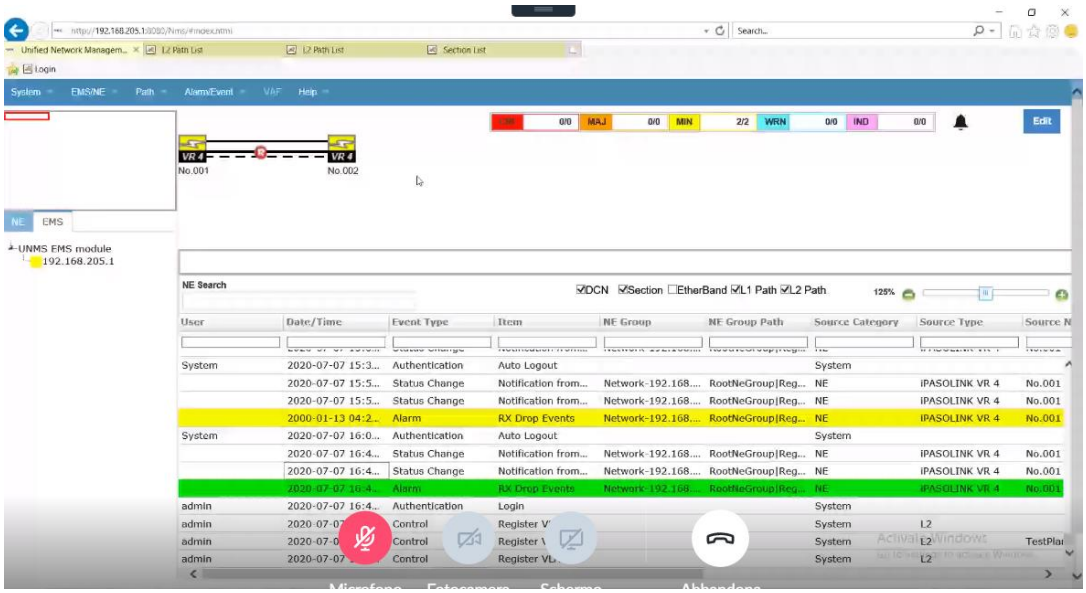

Figure 20 NEC Controller: services status after execution of TD_SSP_01

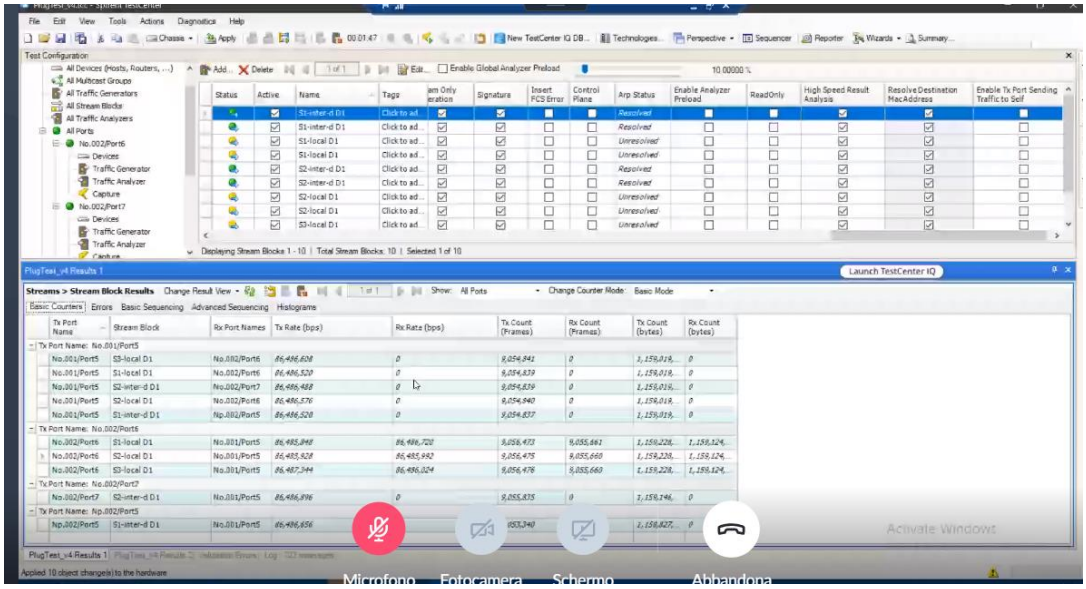

Figure 21 NEC TGA: flows status after TD_SSP_01

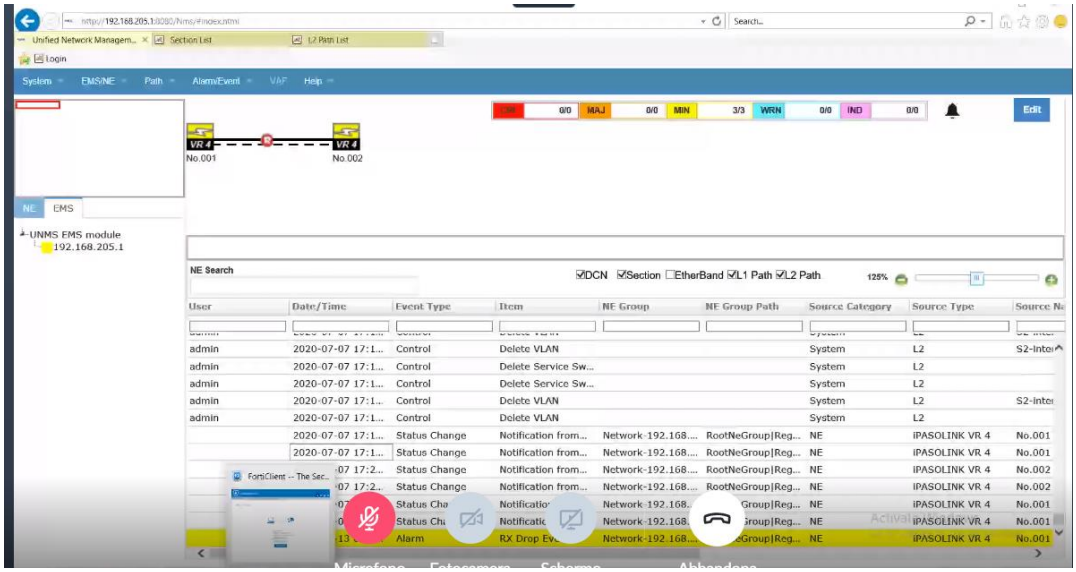

Figure 22 NEC Controller: service status after deletion test (TD_SSP_03)

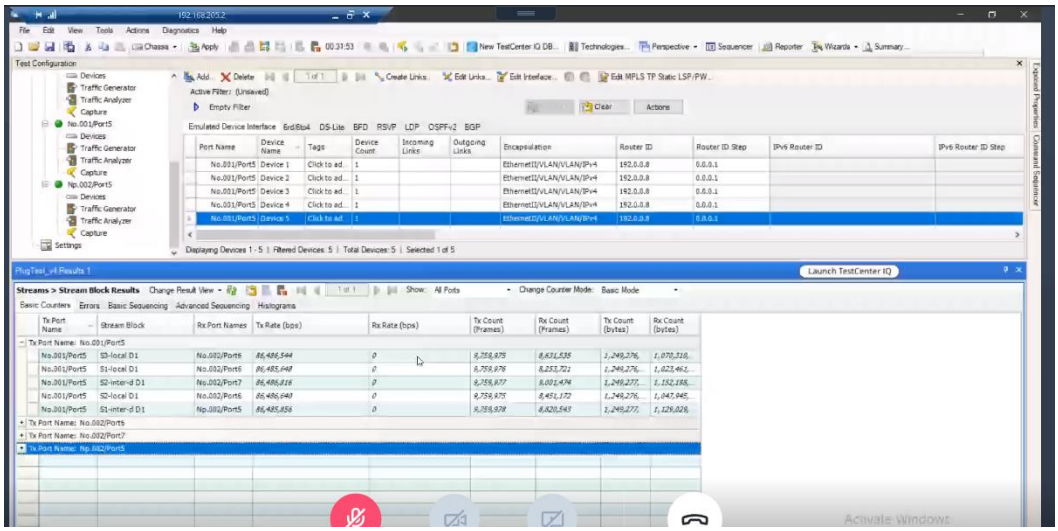

Figure 23 NEC TGA: traffic flows status after execution of TD_SSP_03

9. Nokia Tests Results

9.1 TD_SSP_01 Newman Report

Collection
TD_SSP_01
Time
Wed Jul 08 2020 09:22:03 GMT+0200 (CEST)
Exported with
Newman v4.5.7

Total
Failed
Iterations
1
0
Requests
2
0
Prerequest Scripts
4
0
Test Scripts
4
0
Assertions
1
0

Total run duration
1m 15.7s
Total data received
2.29KB (approx)
Average response time
36.7s

Total Failures
0

Requests

TD_SSP_01-Step-1

Description
This step checks to see if two separated requests will be used, or the creation of Bandwidth Profile and Service should be done in one step only.

Method
GET
URL
https://10.101.243.1/restconf/data/ietf-yang-library:modules-state

Mean time per request
580ms

Mean size per request
2.29KB

Total passed tests
0
Total failed tests
0

Status code
200

TD_SSP_01-Step-3

Description
It sends a POST request in order to create the actual service. This step (as Step-2) will be executed only if it is supported. Otherwise Step-1 will continue with Step-3. After the execution of this step, Step-3 will be skipped.

Method
POST
URL
https://10.101.243.1/restconf/data/ietf-eth-tran-service:etht-svc

Mean time per request
1m 12.9s

Mean size per request
0B

Total passed tests

1
Total failed tests
0

Status code
201

Tests

Name	Pass count	Fail count
Post status check	1	0

9.2 TD_SSP_02 Newman Report

Collection
TD_SSP_02
Description
Interoperability Test Description Identifier TD_ SDN_SSP_02 Test Objective The service topology information is requested from the single DC under test in TD_SDN_SSP_01. The received information is checked to correctly list the newly created service. Configuration CFG_03 References Applicability MW_8040, MW_8345, MW_TETOPO, MW_MWTOPO, MW_ETHSVC Pre-test conditions • The Domain Controller instance is up and running normally • All the devices are upgraded to correct versions • All basic configurations are completed (e.g., NE_id, OSPF, PCEP, etc.) • The Restconf server is serviceable.
Time
Wed Jul 08 2020 09:24:24 GMT+0200 (CEST)
Exported with
Newman v4.5.7

Total
Failed
Iterations
1
0
Requests
1
0
Prerequest Scripts
1
0
Test Scripts
1
0
Assertions
16
0

Total run duration

3.6s
Total data received
4.76KB (approx)
Average response time
2.5s

Total Failures
0

Requests

TD_SSP_02-Step-1
Method
GET
URL
https://10.101.243.1/restconf/data/ietf-eth-tran-service:etht-svc

Mean time per request
2.5s

Mean size per request
4.76KB

Total passed tests
16
Total failed tests
0

Status code
200

Tests

Name	Pass count	Fail count
Response is OK	1	0
validate Response Body	1	0
Validate Response Body for "globals" node	1	0
Bandwidth profile existence check	1	0
Bandwidth profile values check	1	0

Name	Pass count	Fail count
Validate Response Body for "etht-svc-instances" array	1	0
Service existence check for service S1_local	1	0
Validating Service Values for service S1_local	1	0
Service existence check for service S2_local	1	0
Validating Service Values for service S2_local	1	0
Service existence check for service S3_local	1	0
Validating Service Values for service S3_local	1	0
Service existence check for service S1-inter-d	1	0
Validating Service Values for service S1-inter-d	1	0
Service existence check for service S2-inter-d	1	0
Validating Service Values for service S2-inter-d	1	0

9.3 TD_SSP_03 Newman Report

Collection
TD_SSP_03
Description
Interoperability Test Description Identifier TD_ SDN_SSP_03 Test Objective Delete the specified L2 data service over a single domain. The traffic generator/analyzer confirms that data stops flowing. Configuration CFG_03 References Applicability MW_8040, MW_8345, MW_TETOPO, MW_MWTOPO, MW_ETHSVC Pre-test conditions • The Domain Controller instance is up and running normally • All the devices are upgraded to correct versions • All basic configurations are completed (e.g., NE_id, OSPF, PCEP, etc.) • The Restconf server is serviceable.
Time
Wed Jul 08 2020 09:26:36 GMT+0200 (CEST)
Exported with
Newman v4.5.7

Total
Failed
Iterations
1
0
Requests
6
0
Prerequest Scripts
12
0
Test Scripts
12
0
Assertions
6
0

Total run duration
1m 17.7s
Total data received
1.01KB (approx)
Average response time
11.9s

Total Failures
0

Requests

TD_SSP_03-Step-1
Method
DELETE
URL
https://10.101.243.1/restconf/data/ietf-eth-tran-service:etht-svc/etht-svc-instances=S1_local

Mean time per request
14.9s

Mean size per request
0B

Total passed tests
1
Total failed tests
0

Status code
204

Tests

Name	Pass count	Fail count
Post status check	1	0

TD_SSP_03-Step-2

Method
DELETE
URL
https://10.101.243.1/restconf/data/ietf-eth-tran-service:etht-svc/etht-svc-instances=S2_local

Mean time per request
14.2s

Mean size per request
0B

Total passed tests
1
Total failed tests
0

Status code
204

Tests

Name	Pass count	Fail count
Post status check	1	0

TD_SSP_03-Step-3

Method
DELETE
URL
https://10.101.243.1/restconf/data/ietf-eth-tran-service:etht-svc/etht-svc-instances=S3_local

Mean time per request
14.1s

Mean size per request
0B

Total passed tests
1
Total failed tests

0

Status code
204

Tests

Name	Pass count	Fail count
Post status check	1	0

TD_SSP_03-Step-4

Method
DELETE
URL
https://10.101.243.1/restconf/data/ietf-eth-tran-service:etht-svc/etht-svc-instances=S1-inter-d

Mean time per request
13.9s

Mean size per request
0B

Total passed tests
1
Total failed tests
0

Status code
204

Tests

Name	Pass count	Fail count
Post status check	1	0

TD_SSP_03-Step-5

Method
DELETE
URL
https://10.101.243.1/restconf/data/ietf-eth-tran-service:etht-svc/etht-svc-instances=S2-inter-d

Mean time per request
14s

Mean size per request
0B

Total passed tests
1
Total failed tests
0

Status code
204

Tests

Name	Pass count	Fail count
Post status check	1	0

TD_SSP_03-Step-6
Method
DELETE
URL
https://10.101.243.1/restconf/data/ietf-eth-tran-service:etht-svc/globals/etht-svc-bandwidth-profiles=bw_profile_Plugtest_eth_service

Mean time per request
78ms

Mean size per request
1.01KB

Total passed tests
1
Total failed tests
0

Status code
404

Tests

Name	Pass count	Fail count
Post status check	1	0

9.4 TD_SSP_04 Newman Report

Collection
TD_SSP_04
Description
Interoperability Test Description Identifier TD_ SDN_SSP_02 Test Objective The service topology information is requested from the single DC under test in TD_SDN_SSP_01. The received information is checked to correctly list the newly created service. Configuration CFG_03 References Applicability MW_8040, MW_8345, MW_TETOPO, MW_MWTOPO, MW_ETHSVC Pre-test conditions • The Domain Controller instance is up and running normally • All the devices are upgraded to correct versions • All basic configurations are completed (e.g., NE_id, OSPF, PCEP, etc.) • The Restconf server is serviceable.
Time
Wed Jul 08 2020 09:28:05 GMT+0200 (CEST)
Exported with
Newman v4.5.7

Total
Failed
Iterations
1
0
Requests
1
0
Prerequest Scripts
1
0
Test Scripts
1
0
Assertions
2
0

Total run duration
2.3s
Total data received
49B (approx)
Average response time
1147ms

Total Failures
0

Requests

TD_SSP_04-Step-1
Method
GET
URL
https://10.101.243.1/restconf/data/ietf-eth-tran-service:etht-svc

Mean time per request
1147ms

Mean size per request
49B

Total passed tests
2
Total failed tests
0

Status code
200

Tests

Name	Pass count	Fail count
Response is OK	1	0
validate Response Body	1	0

9.5 Nokia Controller and TGA Screenshots

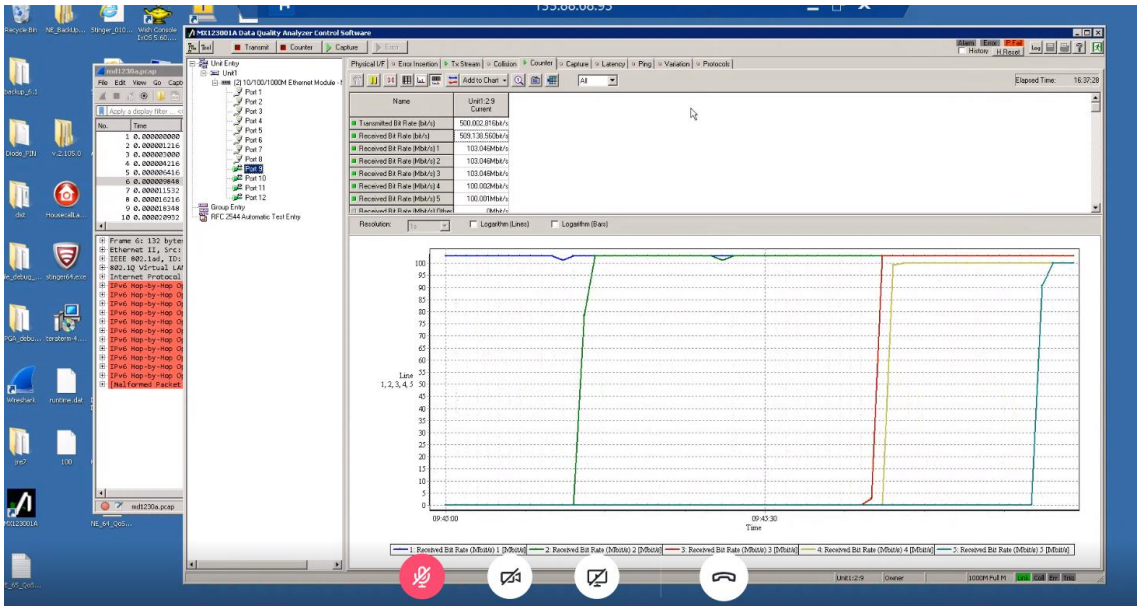

Figure 24 Nokia TGA: traffic flows after execution of TD_SSP_01 test

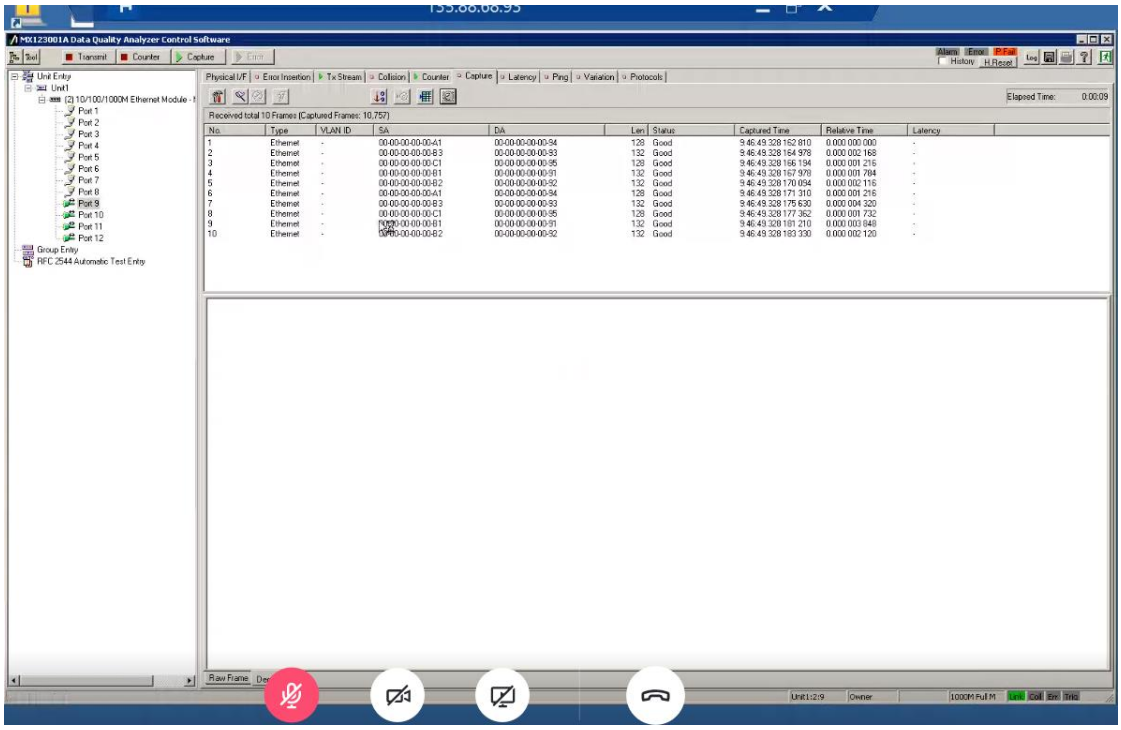

Figure 25 Nokia TGA: list of traffic services configured

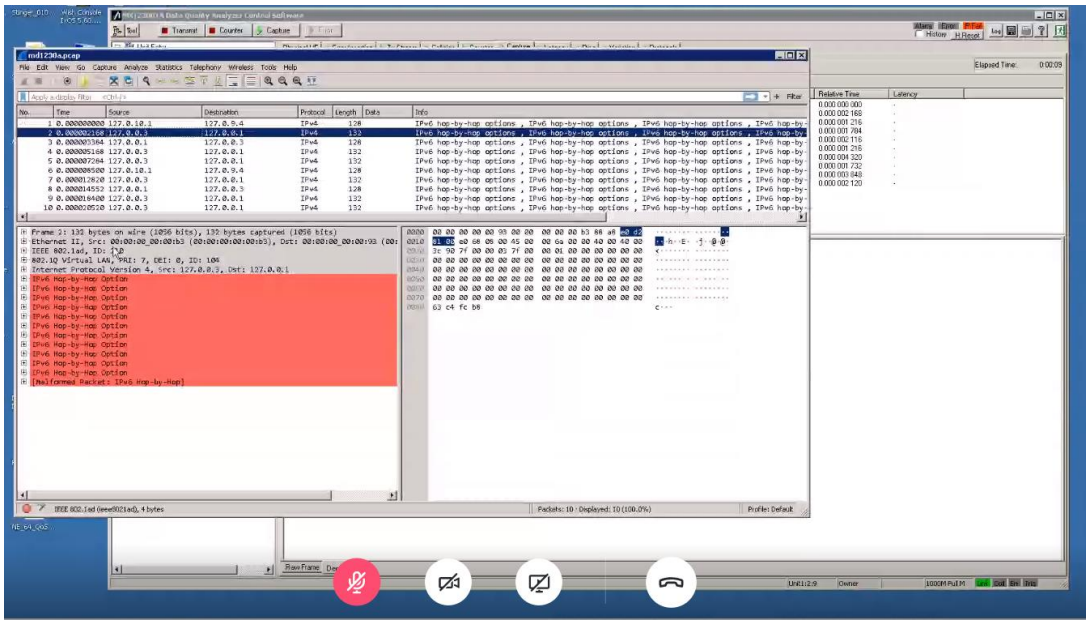

Figure 26 Nokia TGA: Wireshark captures of traffic flows (after execution of TD_SSP_01)

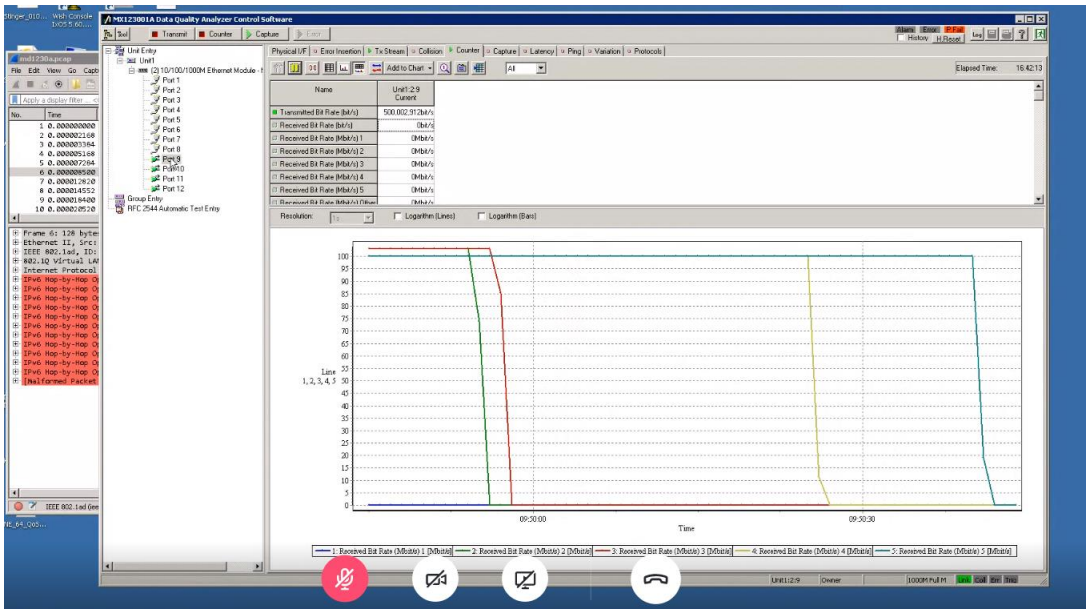

Figure 27 Nokia TGA: traffic flows status after service deletion test (TD_SSP_03)

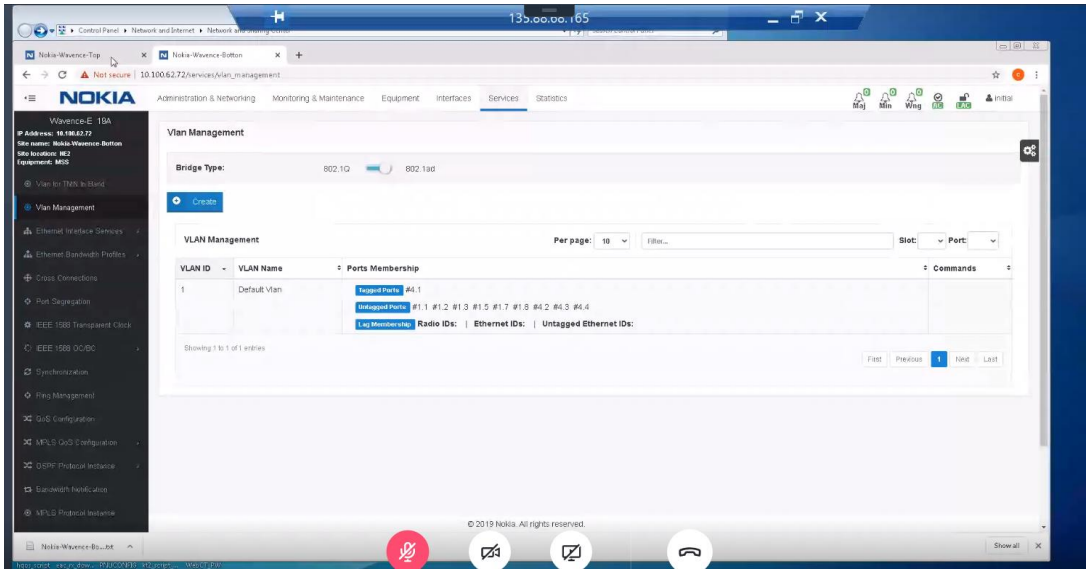

Figure 28 Nokia Controller: service list after deletion test (TD_SSP_03)

10. SIAE Tests Results

10.1 TD_SSP_01 Newman Report

Collection
TD_SSP_01
Time
Wed Jul 08 2020 09:40:09 GMT+0200 (CEST)
Exported with
Newman v4.5.7

Total
Failed

Iterations
1
0
Requests
3
0
Prerequest Scripts
6
0
Test Scripts
6
0
Assertions
2
0

Total run duration
24.8s
Total data received
1.18KB (approx)
Average response time
7.2s

Total Failures
0

Requests

TD_SSP_01-Step-1
Description
This step checks to see if two separated requests will be used, or the creation of Bandwidth Profile and Service should be done in one step only.

Method
GET
URL
http://10.101.243.3:8080/nmswebs/restconf/data/ietf-yang-library:modules-state

Mean time per request
181ms

Mean size per request
1.18KB

Total passed tests
0
Total failed tests
0

Status code
200

TD_SSP_01-Step-2

Description
This step provides for the creation of a Bandwidth Profile. If a Provider does not support it, this step will be skipped (Step-1 will take care for that) and Test will continue with Step-3.

Method
POST
URL
http://10.101.243.3:8080/nmswebs/restconf/data/ietf-eth-tran-service:etht-svc/globals

Mean time per request
105ms

Mean size per request
0B

Total passed tests
1
Total failed tests
0

Status code
201

Tests

Name	Pass count	Fail count
Post status check	1	0

TD_SSP_01-Step-3

Description
It sends a POST request in order to create the actual service. This step (as Step-2) will be executed only if it is supported. Otherwise Step-1 will continue with Step-3. After the execution of this step, Step-3 will be skipped.

Method
POST
URL
http://10.101.243.3:8080/nmswebs/restconf/data/ietf-eth-tran-service:etht-svc

Mean time per request
21.2s

Mean size per request
0B

Total passed tests
1
Total failed tests
0

Status code
201

Tests

Name	Pass count	Fail count
Post status check	1	0

10.2 TD_SSP_02 Newman Report

Collection
TD_SSP_02
Description
Interoperability Test Description Identifier TD_ SDN_SSP_02 Test Objective The service topology information is requested from the single DC under test in TD_SDN_SSP_01. The received information is checked to correctly list the newly created service. Configuration CFG_03 References Applicability MW_8040, MW_8345, MW_TETOPO, MW_MWTOPO, MW_ETHSVC Pre-test conditions • The Domain Controller instance is up and running normally • All the devices are upgraded to correct versions • All basic configurations are completed (e.g., NE_id, OSPF, PCEP, etc.) • The Restconf server is serviceable.
Time
Wed Jul 08 2020 09:44:42 GMT+0200 (CEST)
Exported with
Newman v4.5.7

Total
Failed
Iterations
1
0
Requests
1
0
Prerequest Scripts
1
0
Test Scripts
1
0
Assertions
16
0

Total run duration
1773ms
Total data received
4.82KB (approx)
Average response time
605ms

Total Failures
0

Requests

TD_SSP_02-Step-1
Method
GET
URL
http://10.101.243.3:8080/nmswebs/restconf/data/ietf-eth-tran-service:etht-svc

Mean time per request
605ms

Mean size per request
4.82KB

Total passed tests
16
Total failed tests
0

Status code
200

Tests

Name	Pass count	Fail count
Response is OK	1	0
validate Response Body	1	0
Validate Response Body for "globals" node	1	0
Bandwidth profile existence check	1	0

Name	Pass count	Fail count
Bandwidth profile values check	1	0
Validate Response Body for "etht-svc-instances" array	1	0
Service existence check for service S1_local	1	0
Validating Service Values for service S1_local	1	0
Service existence check for service S2_local	1	0
Validating Service Values for service S2_local	1	0
Service existence check for service S3_local	1	0
Validating Service Values for service S3_local	1	0
Service existence check for service S1-inter-d	1	0
Validating Service Values for service S1-inter-d	1	0
Service existence check for service S2-inter-d	1	0
Validating Service Values for service S2-inter-d	1	0

10.3 TD_SSP_03 Newman Report

Collection
TD_SSP_03
Description
Interoperability Test Description Identifier TD_ SDN_SSP_03 Test Objective Delete the specified L2 data service over a single domain. The traffic generator/analyzer confirms that data stops flowing. Configuration CFG_03 References Applicability MW_8040, MW_8345, MW_TETOPO, MW_MWTOPO, MW_ETHSVC Pre-test conditions • The Domain Controller instance is up and running normally • All the devices are upgraded to correct versions • All basic configurations are completed (e.g., NE_id, OSPF, PCEP, etc.) • The Restconf server is serviceable.
Time
Wed Jul 08 2020 09:46:29 GMT+0200 (CEST)
Exported with

Newman v4.5.7

Total
Failed
Iterations
1
0
Requests
6
0
Prerequest Scripts
12
0
Test Scripts
12
0
Assertions
6
0

Total run duration
52.8s
Total data received
0B (approx)
Average response time
7.7s

Total Failures
0

Requests

TD_SSP_03-Step-1
Method
DELETE
URL
http://10.101.243.3:8080/nmswebs/restconf/data/ietf-eth-tran-service:etht-svc/etht-svc-instances=S1_local

Mean time per request
10.5s

Mean size per request
0B

Total passed tests
1
Total failed tests
0

Status code
204

Tests

Name	Pass count	Fail count
Post status check	1	0

TD_SSP_03-Step-2

Method
DELETE
URL
http://10.101.243.3:8080/nmswebs/restconf/data/ietf-eth-tran-service:etht-svc/etht-svc-instances=S2_local

Mean time per request
9s

Mean size per request
0B

Total passed tests
1
Total failed tests
0

Status code
204

Tests

Name	Pass count	Fail count
Post status check	1	0

TD_SSP_03-Step-3

Method
DELETE
URL
http://10.101.243.3:8080/nmswebs/restconf/data/ietf-eth-tran-service:etht-svc/etht-svc-instances=S3_local

Mean time per request
8.8s

Mean size per request
0B

Total passed tests
1
Total failed tests
0

Status code
204

Tests

Name	Pass count	Fail count
Post status check	1	0

TD_SSP_03-Step-4

Method
DELETE
URL
http://10.101.243.3:8080/nmswebs/restconf/data/ietf-eth-tran-service:etht-svc/etht-svc-instances=S1-inter-d

Mean time per request
8.9s

Mean size per request
0B

Total passed tests
1
Total failed tests
0

Status code
204

Tests

Name	Pass count	Fail count
Post status check	1	0

TD_SSP_03-Step-5

Method
DELETE

URL
http://10.101.243.3:8080/nmswebs/restconf/data/ietf-eth-tran-service:etht-svc/etht-svc-instances=S2-inter-d

Mean time per request
8.9s

Mean size per request
0B

Total passed tests
1
Total failed tests
0

Status code
204

Tests

Name	Pass count	Fail count
Post status check	1	0

TD_SSP_03-Step-6
Method
DELETE
URL
http://10.101.243.3:8080/nmswebs/restconf/data/ietf-eth-tran-service:etht-svc/globals/etht-svc-bandwidth-profiles=bw_profile_Plugtest_eth_service

Mean time per request
95ms

Mean size per request
0B

Total passed tests
1
Total failed tests
0

Status code
204

Tests

Name	Pass count	Fail count
Post status check	1	0

10.4 TD_SSP_04 Newman Report

Collection
TD_SSP_04
Description
Interoperability Test Description Identifier TD_ SDN_SSP_02 Test Objective The service topology information is requested from the single DC under test in TD_SDN_SSP_01. The received information is checked to correctly list the newly created service. Configuration CFG_03 References Applicability MW_8040, MW_8345, MW_TETOPO, MW_MWTOPO, MW_ETHSVC Pre-test conditions • The Domain Controller instance is up and running normally • All the devices are upgraded to correct versions • All basic configurations are completed (e.g., NE_id, OSPF, PCEP, etc.) • The Restconf server is serviceable.
Time
Wed Jul 08 2020 09:48:16 GMT+0200 (CEST)
Exported with
Newman v4.5.7

Total
Failed
Iterations
1
0
Requests
1
0
Prerequest Scripts
1
0
Test Scripts
1
0
Assertions
2
0

Total run duration
1294ms
Total data received
49B (approx)
Average response time
161ms

Total Failures
0

Requests

TD_SSP_04-Step-1

Method
GET
URL
http://10.101.243.3:8080/nmswebs/restconf/data/ietf-eth-tran-service:etht-svc

Mean time per request
161ms

Mean size per request
49B

Total passed tests
2
Total failed tests
0

Status code
200

Tests

Name	Pass count	Fail count
Response is OK	1	0
validate Response Body	1	0

10.5 SIAE Controller and TGA Screenshots

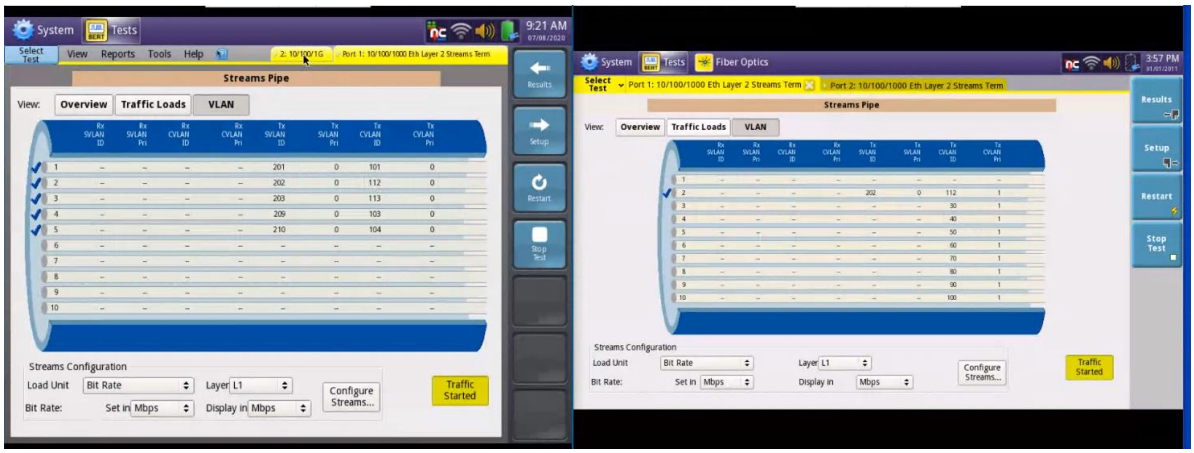

Figure 29 SIAE TGA: traffic flows status before the execution of test TD_SSP_01

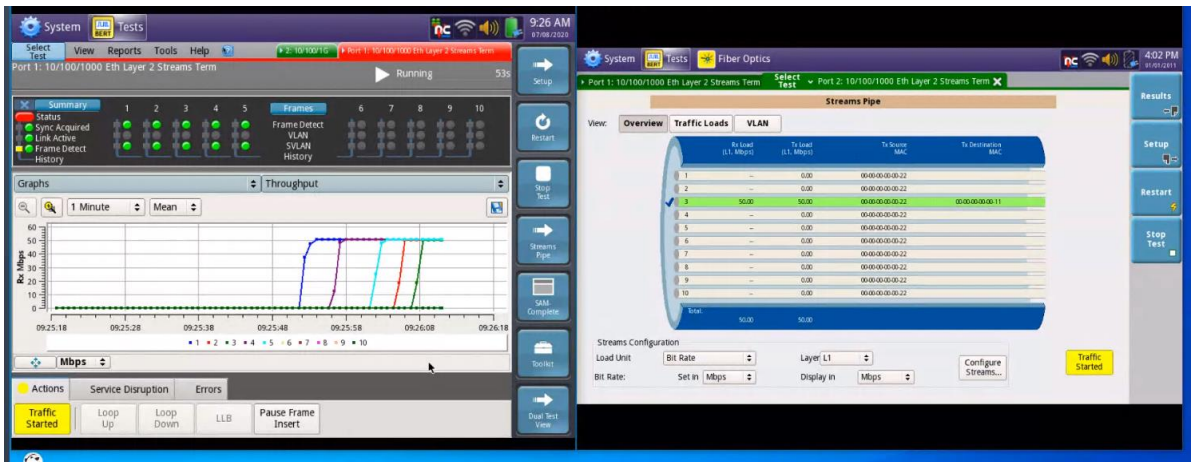

Figure 30 SIAE TGA: traffic flows after the execution of TD_SSP_01

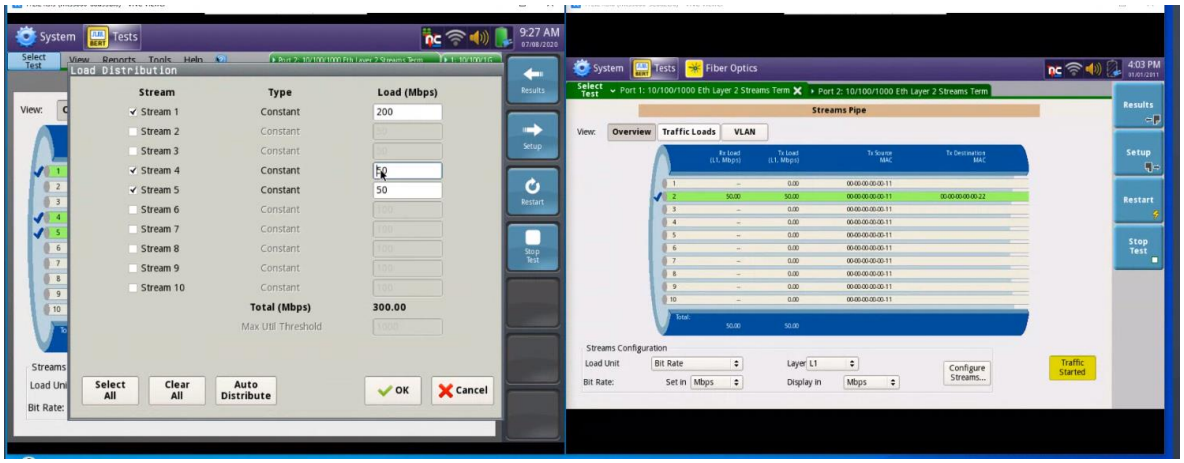

Figure 31 SIAE TGA: verification of service traffic profiles after provisioning: load change exceeding PIR.

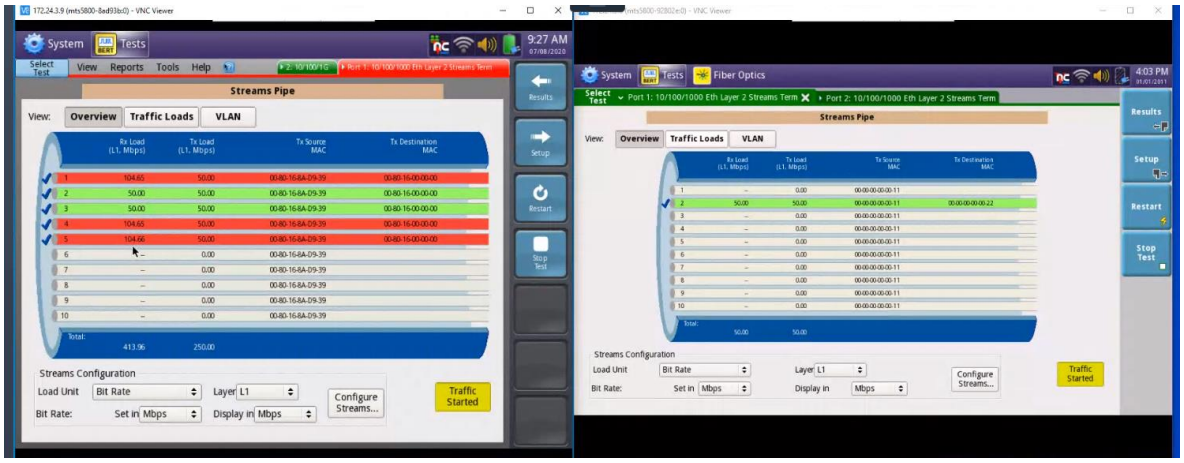

Figure 32 SIAE TGA: verification of service traffic profiles after provisioning: traffic shaping check

Figure 33 SIAE TGA: traffic flows status after execution of service deletion test (TD_SSP_03)