

5GASP Certification Process

The 5GASP Certification is the technical, organizational, and administrative process executed to certify a NetApp. The following parties are typically involved in a certification:

- **Applicant** (Equipment Manufacturer providing a NetApp supporting the 5GASP requirements):
 - Select an authorised Testbed which meets the Applicant's needs and schedule a certification testing slot
 - Complete NetApp certification application and submit all required supporting documentation
 - Submit required materials to the Testbed for certification testing
 - Coordinate with Testbed on monitoring/supporting the certification test execution
 - Coordinate with Testbed on investigation/debugging of NetApp test issues as required

- **Authorized Testbeds** (Independent Testbed which has 5GASP approval to provide test reports for NetApp certification):
 - Respond promptly to testing inquiries from Applicants
 - Coordinate with Applicant to schedule timely testing window
 - Coordinate with Applicant to complete all pre-testing logistics
 - Execute formal certification testing
 - Review testing results for test environment integrity and accuracy
 - Escalate abnormal test findings to 5GASP certification authority for disposition
 - Facilitate investigation/debugging of product test issues with Applicant as requested
 - Communicate completed test results to the 5GASP certification repository

- **5GASP Certification Authority** (Logo owner and Program Administration)
 - Review/approve product certification application and supporting documentation
 - Collaborate with Testbeds on investigation/disposition of abnormal test findings
 - Review testing results for product compliance
 - Arbitrate any escalated issues from Testbed and Applicant
 - Issue certificate and associated logo
 - Maintain certified product listing

Different grades of certification are created, starting with a minimum scope of test cases and/or a minimum set of KPI requirements for an initial step. Subsequently, the scope could be expanded and/or sets of KPIs could be strengthened. Different levels of certification (bronze / silver / gold) are created with different sets of criteria. The requirements of the certification levels are as follows:

- Bronze – all initial criteria
- Silver – all initial criteria and a minimum of 50 percent of available expanded criteria points
- Gold – all initial criteria and a minimum of 75 percent of available expanded criteria points

No certification would be issued by 5GASP Certification Authority if the initial criteria is not fully met. In this case, the NetApp Applicant could ask for a re-certification with a new software version. In the re-certification process, some workflows could be skipped (e.g., Certification Request), some documents could be only updated (e.g., Supporting documentation and Test materials), and the Testbed could be re-used. The re-certification process could be also used when a NetApp Applicant wants to get a higher level of certification (e.g., bronze was initially issued and later, silver or gold level is the goal for a new software version).

Template for Certification Report

A. GENERAL INFORMATION

A1 Name of NetApp under certification*	A2 Version of NetApp under certification*
A3 Status of certification [conforming / non-conforming]*	A4 Level of certification [bronze / silver / gold]*
A5 Publication date of certification*	A6 Signature (5GASP Logo owner)*
A7 Date of test run*	A8 Name of Testbed(s) – incl. the address A8.1 Name of partner 1* - A8.2 Name of partner 2 (optional in multi-testbed) -
A9 Involved parties* A9.1 Name of partner 1 - A9.2 Name of partner 2 - A9.3 Name of partner 3 - . . .	
A10 Engineer identifier (tester) – incl. Name, Organization, E-mail address*	
A11 Testbed topology and test environment description*	
A12 Summary of test results, conclusions	

*is mandatory

B. TEST INFORMATION

B1 Date of test run*	B2 Name of Testbed(s) – incl. the address B2.1 Name of partner 1* - B2.2 Name of partner 2 (optional in multi-testbed) -
B3 Involved parties* B3.1 Name of partner 1 - B3.2 Name of partner 2 - B3.3 Name of partner 3 - . . .	
B4 Engineer identifier (tester) – incl. Name, Organization, E-mail address*	
B5 Testbed topology and test environment description*	
B6 Summary of test results, conclusions	

List of Test Cases

Test No.	Test Case*	Referenced Test Plan*	Test Status [PASS/FAIL/INCONCLUSIVE] *
01			
02			
03			

C. TEST AND MEASUREMENT EQUIPMENT AND TOOLS

No.	Equipment or Tool	Manufacturer	Open Source [Y/N]	Version (HW/SW)	Notes
01					
02					
03					

D. NETAPP UNDER TEST

D1 Total number of VNF/CNF*	D2 Usage of resource* D2.1 CPU speed (GHz) - D2.2 RAM size (GB) - D2.3 Storage speed (MB/s) - D2.4 Virtual network type [OVS / DPDP /SR-IoV] -
D3 Description of NetApp	

E. TEST RESULTS

E1 Test No.	E2 Test Case*#
E3 Date(s) of test execution	E4 Reference to test plan*
E5 Test procedure – describe differences in comparison with the test procedure defined in test specification – limitations	
E6 KPIs – incl. the minimum criteria in the test plan*	
E7 Test results – measured value of KPIs – incl. attachment of raw measurements and log file(s)*	
E8 Notes, incl. observed issues with the solutions	
E9 Conclusions – pass/fail/ inconclusive – assessment of measured KPIs (in comparison with the expected KPIs) – gap analysis	

Please repeat the above table for each test case