



OpenFabrics Alliance

Interoperability Logo Group (OFILG)

May 2014 Logo Event Report

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Date: 23 July 2014
Report Revision: 1.2
OFED Version on Compute Nodes: 3.12
Operating System on Compute Nodes: Scientific Linux 6.5

Enclosed are the results from OFA Logo testing performed on the following devices under test (DUTs):
NetApp E-Series E5400 *NetApp E-Series E5500*

The test suite referenced in this report is available at the UNH-IOL website. Release 1.50 (2014-May-6) was used.

<http://iol.unh.edu/ofatestplan>

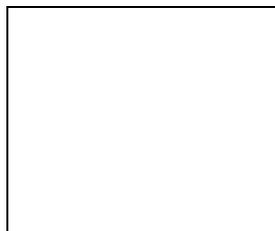
The following table highlights the mandatory test results required for the OpenFabrics Interoperability Logo for the SRP Target over InfiniBand device class per the Test Plan referenced above and the current OpenFabrics Interoperability Logo Program (OFILP).

| Test Procedures | IWG Test Status | Result/Notes |
|--|-----------------|--------------|
| 11.1: Link Initialization | Mandatory | PASS |
| 11.2: Fabric Initialization | Mandatory | PASS |
| 11.5: SM Failover and Handover | Mandatory | PASS |
| 11.6: SRP | Mandatory | PASS |

Summary of all results follows on the second page of this report.
For Specific details regarding issues, please see the corresponding test result.

Testing Completed 11 June 2014

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Review Completed 23 July 2014

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Result Summary

The following table summarizes all results from the event pertinent to this IB device class (SRP Target over InfiniBand).

| Test Procedures | IWG Test Status | Result/Notes |
|--|-----------------|--------------|
| 11.1: Link Initialization | Mandatory | PASS |
| 11.2: Fabric Initialization | Mandatory | PASS |
| 11.5: SM Failover and Handover | Mandatory | PASS |
| 11.6: SRP | Mandatory | PASS |

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Report Revision History

- v1.0 Initial working copy
- v1.1 Updated model number of E-Series E5400 and E-Series E5500
- v1.2 Updated DUT names to reflect product naming conventions

Configuration Files

| Description | Attachment |
|---|------------|
| Scientific Linux 6.5 Configuration File | |
| OFED 3.12 Configuration File | |

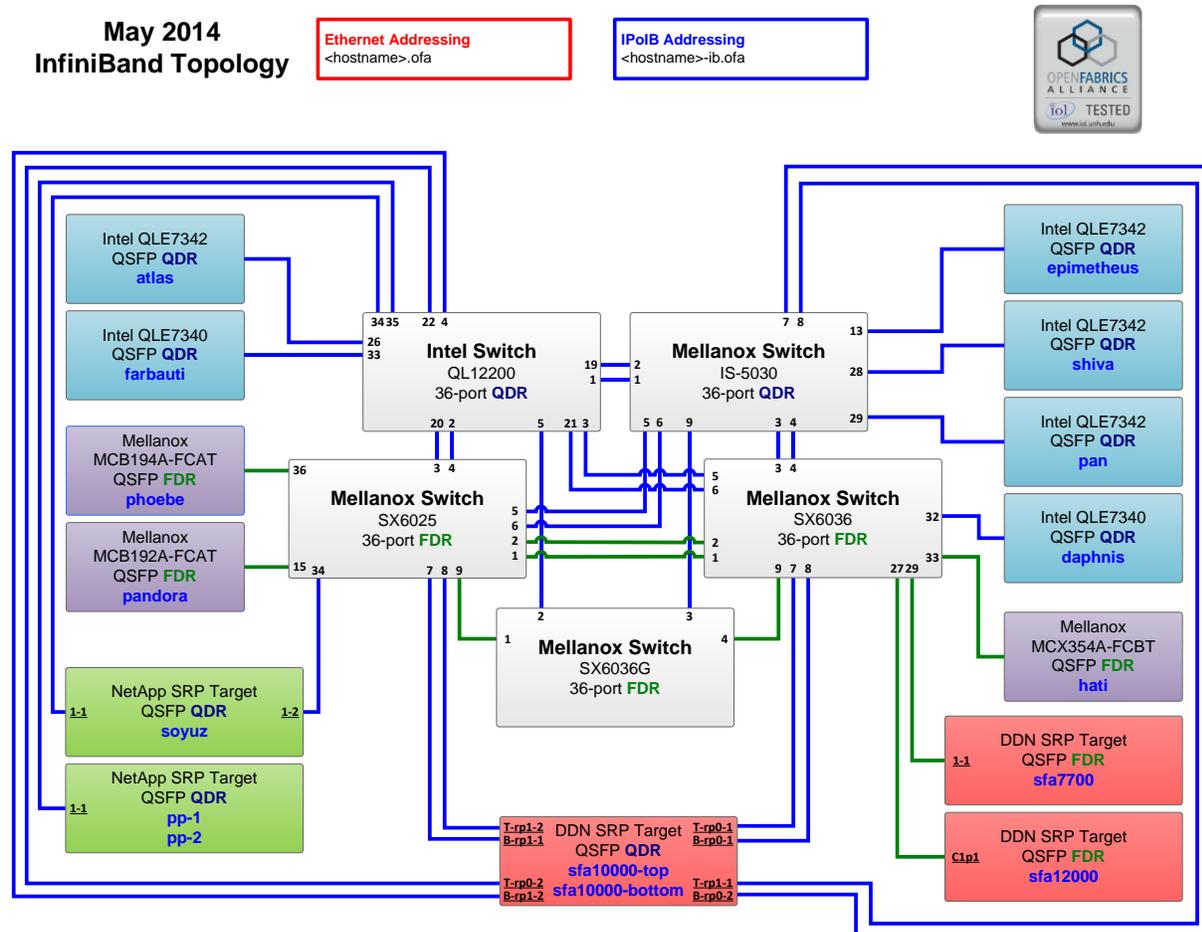
Result Key

The following table contains possible results and their meanings:

| Result: | Description: |
|---------------------------|---|
| PASS | The Device Under Test (DUT) was observed to exhibit conformant behavior. |
| PASS with Comments | The DUT was observed to exhibit conformant behavior however an additional explanation of the situation is included. |
| Qualified PASS | The DUT was observed to exhibit conformant behavior, with the exception of fault(s) or defect(s) which were previously known. |
| FAIL | The DUT was observed to exhibit non-conformant behavior. |
| Warning | The DUT was observed to exhibit behavior that is not recommended. |
| Informative | Results are for informative purposes only and are not judged on a pass or fail basis. |
| Refer to Comments | From the observations, a valid pass or fail could not be determined. An additional explanation of the situation is included. |
| Not Applicable | The DUT does not support the technology required to perform this test. |
| Not Available | Due to testing station limitations or time limitations, the tests could not be performed. |
| Borderline | The observed values of the specific parameters are valid at one extreme and invalid at the other. |
| Not Tested | Not tested due to the time constraints of the test period. |

DUT and Test Setup Information

Figure 1: The IB fabric configuration utilized for any tests requiring a multi-switch configuration is shown below.



| DUT #1 Details | | | |
|------------------------------|----------------------------------|--------------------|-------------|
| Manufacturer: | NetApp | Firmware Revision: | 08.10.05.00 |
| Model: | E-Series E5400 | Hardware Revision: | 1.0 |
| Speed: | QDR | Located in Host: | NA |
| Firmware MD5sum: | 8e6f2ebdc5f0d0ba90c474e0d4ba0552 | | |
| Additional Comments / Notes: | | | |

| DUT #2 Details | | | |
|------------------------------|----------------------------------|--------------------|-------------|
| Manufacturer: | NetApp | Firmware Revision: | 08.10.05.00 |
| Model: | E-Series E5500 | Hardware Revision: | 1.0 |
| Speed: | QDR | Located in Host: | NA |
| Firmware MD5sum: | 696caf8be638d546bbe52a8a988487dd | | |
| Additional Comments / Notes: | | | |

Mandatory Tests – IB Device Test Results:

11.1: Link Initialization

| Results | |
|---|------|
| Part #1: | PASS |
| Discussion: | |
| All links established with the DUT were of the proper link speed and width. | |

| Link Partner | E-Series E5400 | E-Series E5500 |
|--|-------------------------|----------------|
| Intel 12200 (Switch) – QDR | PASS | PASS |
| Mellanox SX6025 (Switch) – FDR | PASS | PASS |
| Mellanox SX6036 (Switch) – FDR | PASS | PASS |
| Mellanox IS-5030 (Switch) – QDR | PASS | PASS |
| Mellanox SX6036G (Switch) – FDR | PASS | PASS |
| DataDirect Networks SFA12K (SRP Target) – FDR | NA | NA |
| DataDirect Networks SFA10K (SRP Target) – QDR | NA | NA |
| DataDirect Networks SFA7700 (SRP Target) – FDR | NA | NA |
| NetApp E-Series E5500 – QDR | NA | NA |
| NetApp E-Series E5400 – QDR | NA | NA |
| Host: hati | HCA: MCX354A-FCBT (FDR) | PASS |
| Host: phoebe | HCA: MCB194A-FCAT (FDR) | PASS |
| Host: pandora | HCA: MCB192A-FCAT (FDR) | PASS |
| Host: atlas | HCA: QLE7342 (QDR) | PASS |
| Host: daphnis | HCA: QLE7340 (QDR) | PASS |

11.2: Fabric Initialization

| Subnet Manager | Result |
|---|--------|
| OpenSM | PASS |
| Result Discussion: | |
| All subnet managers used while testing with OFED 3.12 were able to correctly configure the selected topology. | |

11.5: SM Failover and Handover

| SM Pairings | Result |
|---|--------|
| OpenSM | PASS |
| Result Discussion: | |
| OpenSM was able to properly handle SM priority and state rules. | |

11.6: SRP

| Subnet Manager | Result |
|--|--------|
| OpenSM | PASS |
| Result Discussion: | |
| Core and extended SRP communications between all HCAs and all SRP targets succeeded while OpenSM was in control of the fabric. | |