



# OpenFabrics Alliance

## Interoperability Working Group (OFA-IWG)

### January 2010 Logo Event Report

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 OFED Version: 1.5

Enclosed are the results from OFA Logo testing performed on the following devices under test (DUTs):

*DataDirect Networks S2A9900 DDR InfiniBand SRP Target*

The test suite referenced in this report is available at the OFA website, at test time release 1.30 (September 8, 2009 DRAFT) was used:

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

The following table highlights the Mandatory test results required for the OpenFabrics Interoperability Logo for the DUT per the testplan referenced above and the current OpenFabrics Interoperability Logo Program (OFILP).

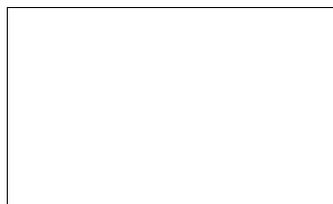
Mandatory Test Procedures	IWG Test Status	Result/Notes
<a href="#">10.1: IB Link Initialization</a>	<b>Mandatory</b>	<b>PASS</b>
<a href="#">10.2: IB Fabric Initialization</a>	<b>Mandatory</b>	<b>PASS</b>
<a href="#">10.5: IB SM Failover and Handover</a>	<b>Mandatory</b>	<b>PASS</b>
<a href="#">10.6: IB SRP</a>	<b>Mandatory</b>	<b>PASS</b>

For specific details regarding issues please see the corresponding test result.

Summary of all results follows on the second page of this report.

Testing Completed 02/09/2010

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Review Completed 05/11/2010

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## Table 1: Result Summary

The following table summarizes all results from the event pertinent to an IB device.

Note: **Failing a beta test does not necessarily indicate a failure of the device under test.** There are several reasons that a device might fail a beta test that are beyond the control of the device manufacturer. Such reasons include unresolved problems with the OFED software, with other vendors' devices, and with the test plan procedures.

Test Procedures	IWG Test Status	Result/Notes
<a href="#">10.1: IB Link Initialization</a>	<b>Mandatory</b>	<b>PASS</b>
<a href="#">10.2: IB Fabric Initialization</a>	<b>Mandatory</b>	<b>PASS</b>
<a href="#">10.5: IB SM Failover and Handover</a>	<b>Mandatory</b>	<b>PASS</b>
<a href="#">10.6: IB SRP</a>	<b>Mandatory</b>	<b>PASS</b>

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## Report Revision History

- v1.0 Initial working copy
- v1.1 Updated to include tested firmware md5sum and new topology
- v1.2 Updated results
- v1.3 Updated topology

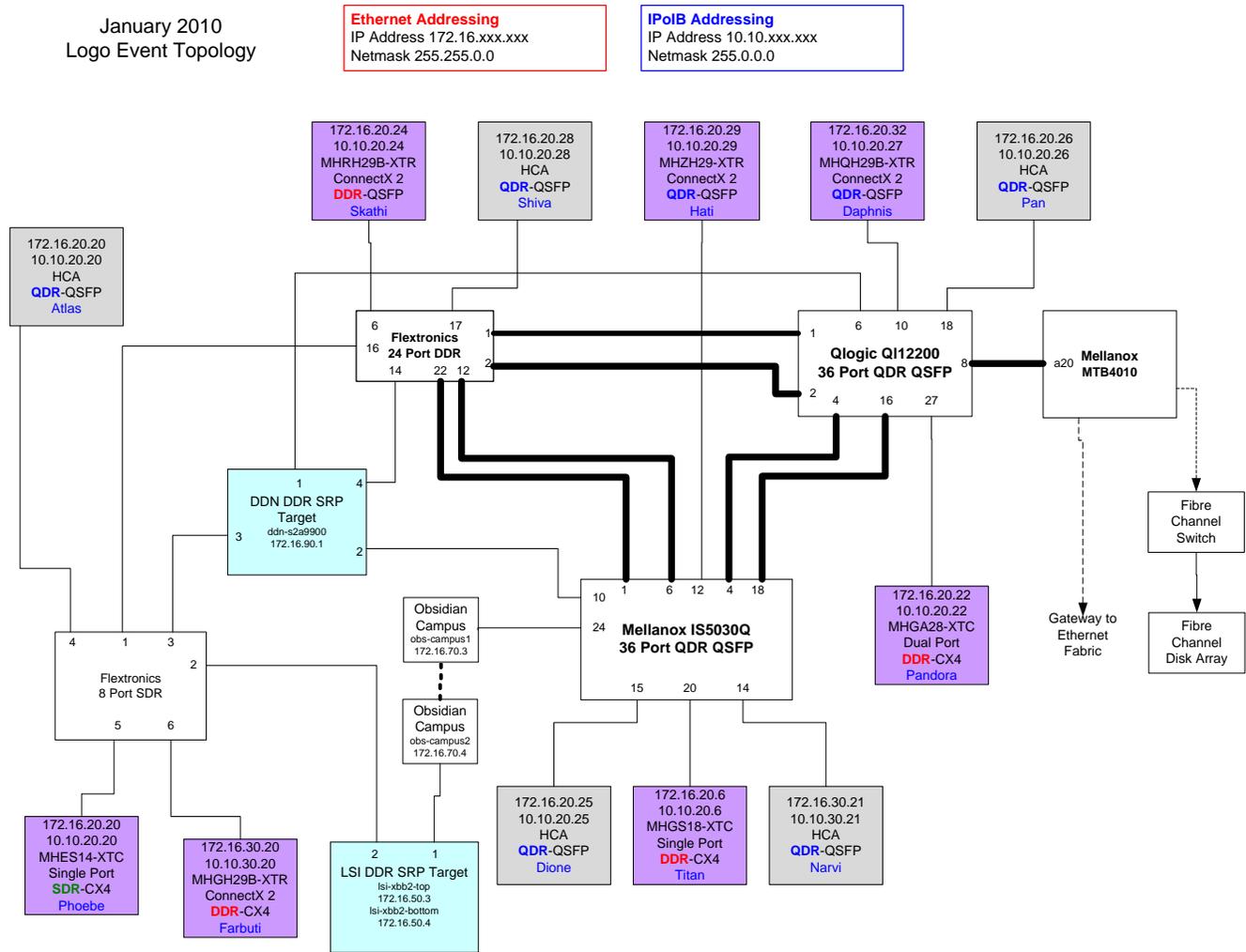
## Table 2: Result Key

The following table contains possible results and their meanings:

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

### Table 3: 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	DataDirect Networks	Firmware Rev	6.04
Model	S2A9900	Hardware Rev	NA
Speed	DDR	Located in Host	NA
Additional Comments/Notes		Firmware fsh md5sum	
S2A 9900 (InfiniBand SRP Target Storage System)		45c9407df63f35bc09b42b767a90deed	

## Mandatory Tests - IB Device Test Summary Results:

Test Number and Name	Part(s)	Summary Note(s)	Result(s)
Group 10.1: IB Link Initialize	Test #1	No issues seen	<b>PASS</b>
<b>Discussion:</b>			
Physical link initialization was verified between this device and every other device in the fabric. Link status was observed visually via status lights on the device. Port width and link speed was verified via ibdiagnet.			

Link Partner	S2A9900
Mellanox MHGA28-XTC DDR	<b>Pass</b>
Mellanox MHGS18-XTC DDR	<b>Pass</b>
Mellanox MHES14-XTC SDR	<b>Pass</b>
Mellanox MHZH29-XTR QDR	<b>Pass</b>
Mellanox MHRH29b-XTR DDR	<b>Pass</b>
Mellanox MHQH29b-XTR QDR	<b>Pass</b>
Mellanox MHGH29b-XTR DDR	<b>Pass</b>
Mellanox IS5030Q - QDR	<b>Pass</b>
QLogic 12200 - QDR	<b>Pass</b>
Flextronics X430044 - DDR	<b>Pass</b>
Flextronics X430066 - SDR	<b>Pass</b>
Obsidian Longbow	<b>Pass</b>
Obsidian Campus	<b>Pass</b>
LSI XBB2 - DDR	<b>X</b>
DDN S2A9900 - DDR	<b>X</b>
Mellanox MTB4010 - QDR	<b>Pass</b>

Test Number and Name	Part(s)	Summary Note(s)	Result(s)
Group 10.2: IB Fabric Initialization	Test #1:	No issues seen	<b>PASS</b>
<b>Discussion:</b>			
The fabric configuration shown in Figure 1 was used for this test. 'ibdiagnet -c 1000' showed no Port error counters increment. Only one SM is run at a time. All switches are power cycled between SM trials. All links are validated via use of 'ibdiagnet' and 'ibchecknet' was used to verify that there were no duplicate guides. Refer to the table below for SM details.			
SMs tested include: <i>OFED OpenSM (SM Only)</i> , <i>QLogic 12200 (Managed Switch)</i> , and <i>Mellanox IS5020Q (Managed Switch)</i>			

Test Number and Name	Part(s)	Summary Note(s)	Result(s)
Group 10.5: IB SM Failover and Handover	Test #1	No Issues Seen	<b>PASS</b>
<b>Discussion:</b>			
No issues were observed.			
SMs tested include: <i>OFED OpenSM (SM Only)</i>			

Test Number and Name	Part(s)	Summary Note(s)	Result(s)
Group 10.6: IB SRP	Test #1:	No issues seen	<b>PASS</b>
<b>Discussion:</b>			
No SRP issues were observed with this Target.			
SMs tested include: <i>OFED OpenSM (SM Only)</i> , <i>QLogic 12200 (Managed Switch SM)</i> , and <i>Mellanox IS5020Q (Managed Switch) SM</i>			