



## **Common Abbreviations and Related Documents**

## Common Abbreviations and Acronyms

Abbreviation/ Acronym	Description
B	(Capital) 'B' is used to indicate size in bytes or multiples of bytes (e.g., 1KB = 1024 bytes, and 1MB = 1048576 bytes)
b	(Small) 'b' is used to indicate size in bits or multiples of bits (e.g., 1Kb = 1024 bits)
FW	Firmware
HCA	Host Channel Adapter
HW	Hardware
IB	InfiniBand
iSER	iSCSI RDMA Protocol
LSB	Least significant <i>byte</i>
lsb	Least significant <i>bit</i>
MSB	Most significant <i>byte</i>
msb	Most significant <i>bit</i>
NIC	Network Interface Card
SW	Software
VPI	Virtual Protocol Interconnect
IPoIB	IP over InfiniBand
PFC	Priority Flow Control
PR	Path Record
RoCE	RDMA over Converged Ethernet
SL	Service Level
SRP	SCSI RDMA Protocol
MPI	Message Passing Interface
QoS	Quality of Service

<b>Abbreviation/ Acronym</b>	<b>Description</b>
ULP	Upper Layer Protocol
VL	Virtual Lane
vHBA	Virtual SCSI Host Bus Adapter
uDAPL	User Direct Access Programming Library

## Glossary

The following is a list of concepts and terms related to InfiniBand in general and to Subnet Managers in particular. It is included here for ease of reference, but the main reference remains the *InfiniBand Architecture Specification*.

<b>Term</b>	<b>Description</b>
Channel Adapter (CA), Host Channel Adapter (HCA)	An IB device that terminates an IB link and executes transport functions. This may be an HCA (Host CA) or a TCA (Target CA)
HCA Card	A network adapter card based on an InfiniBand channel adapter device
IB Devices	An integrated circuit implementing InfiniBand compliant communication
IB Cluster/Fabric/ Subnet	A set of IB devices connected by IB cables
In-Band	A term assigned to administration activities traversing the IB connectivity only
Local Identifier (ID)	An address assigned to a port (data sink or source point) by the Subnet Manager, unique within the subnet, used for directing packets within the subnet
Local Device/Node/ System	The IB Host Channel Adapter (HCA) Card installed on the machine running IBDIAG tools
Local Port	The IB port of the HCA through which IBDIAG tools connect to the IB fabric
Master Subnet	The Subnet Manager that is authoritative, that has the reference

Term	Description
Manager	configuration information for the subnet
Multicast Forwarding Tables	A table that exists in every switch providing the list of ports to forward received multicast packet. The table is organized by MLID
Network Interface Card (NIC)	A network adapter card that plugs into the PCI Express slot and provides one or more ports to an Ethernet network
Standby Subnet Manager	A Subnet Manager that is currently quiescent, and not in the role of a Master Subnet Manager, by the agency of the master SM
Subnet Administrator (SA)	An application (normally part of the Subnet Manager) that implements the interface for querying and manipulating subnet management data
Subnet Manager (SM)	One of several entities involved in the configuration and control of the IB fabric
Unicast Linear Forwarding Tables (LFT)	A table that exists in every switch providing the port through which packets should be sent to each LID
Virtual Protocol Interconnect (VPI)	An NVIDIA technology that allows NVIDIA channel adapter devices (ConnectX®) to simultaneously connect to an InfiniBand subnet and a 10GigE subnet (each subnet connects to one of the adapter ports)

## Related Documentation

Document Name	Description
InfiniBand Architecture Specification, Vol. 1, Release 1.2.1	The InfiniBand Architecture Specification that is provided by IBTA
IEEE Std 802.3ae™-2002 (Amendment to IEEE Std 802.3-2002) Document # PDF: SS94996	Part 3: Carrier Sense Multiple Access with Collision Detection (CSMA/CD) Access Method and Physical Layer Specifications Amendment: Media Access Control (MAC) Parameters, Physical Layers, and Management Parameters for 10 Gb/s Operation
Firmware Release Notes for NVIDIA adapter devices	See the <a href="#">Release Notes</a> relevant to your adapter device

Document Name	Description
MFT User Manual and Release Notes	NVIDIA Firmware Tools (MFT) User Manual and Release Notes documents
WinOF User Manual	Mellanox WinOF User Manual describes the installation, configuration, and operation of NVIDIA Windows driver
VMA User Manual	NVIDIA VMA User Manual describes the installation, configuration, and operation of NVIDIA VMA driver

Copyright 2024. PDF Generated on 06/06/2024