



HBACMD User's Guide

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1.	HBAnyware [™] Overview.....	4
1.1	Using the CLI Client.....	4
2.	HBAnyware [™] CLI Client Command Reference	5
2.1	Version.....	5
2.2	ListHBAs	5
2.3	HBAAttrib.....	5
2.4	PortAttrib	5
2.5	PortStat.....	6
2.6	ServerAttrib	6
2.7	Download.....	6
2.8	Reset.....	6
2.9	TargetMapping.....	7
2.10	AllNodeInfo	7
2.11	PersistentBinding.....	7
2.12	SetPersistentBinding.....	8
2.13	RemoveallPersistentBinding.....	8
2.14	RemovePersistentBinding.....	9
2.15	BindingCapabilities	9
2.16	BindingSupport.....	10
2.17	SetBindingSupport.....	10
2.18	DriverParams	10
2.19	SetDriverParams	11
2.20	ResetDriverParams	11

Revision Log

Revision	Date	Author	Description
1.0	November 20, 2002	BB	Initial Release
1.1	March 25, 2003	JN	Corrections made
1.2	May 7, 2003	JN	Corrections made
1.3	September 17, 2003	JN	Added new commands

1. HBAnyware[™] Overview

HBAnyware[™] is a collection of software components that enable SAN administrators to manage Emulex Fibre Channel HBAs. HBAnyware[™] includes an agent that runs on each node that is equipped with an Emulex HBA, a library that provides programmatic access to the management functions, and one or more client applications that provide access to the management features.

The CLI Client component of HBAnyware[™] provides access to the capabilities of the Remote Management library from a console command prompt. This component is intended for use in scripted operations from within shell scripts, batch files, or the specific platform equivalent.

This document describes the commands provided by the HBAnyware[™] CLI Client.

1.1 Using the CLI Client

The CLI Client is a console application named HBACMD.EXE. Each invocation of this application specifies a single operation that is to be performed. The first parameter to this command is the requested operation. Upon completion of the specified operation, the user is returned to the command prompt. Most operations retrieve information about an entity on the SAN, and display that information on the console.

Most of the CLI Client commands require one or more additional parameters that specify the nature of the command. A parameter used by many HBACMD commands specified the World Wide Port Name of the HBA that is the target of the command. For example, the command:

```
C:\> HBACMD PORTATTRIB 10:00:00:00:c9:20:20:20
```

Will display port attributes for the HBA with the specified World Wide Port Name.

2. HBAnyware™ CLI Client Command Reference

2.1 Version

Syntax: HBACMD VERSION

Description: Displays the current version of the HBAnyware™ CLI client application.

Parameters : None.

2.2 ListHBAs

Syntax: HBACMD LISTHBAS

Description: Displays a list of the discovered manageable Emulex HBAs and their World Wide Port Names.

Parameters : None.

2.3 HBAAttrib

Syntax: HBACMD HBAAttrib <wwpn>

Description: Displays a list of HBA attributes for the HBA with the specified World Wide Port Name.

Parameters : WWPN The World Wide Port Name of the HBA. This HBA can be either local or remote.

2.4 PortAttrib

Syntax: HBACMD PortAttrib <wwpn>

Description: Displays a list of port attributes for the port with the specified World Wide Port Name.

Parameters : WWPN The World Wide Port Name of the Port. This port can be either local or remote.

2.5 PortStat

Syntax: HBACMD PortStat <wwpn>

Description: Displays a list of port statistics for the port with the specified World Wide Port Name.

Parameters : WWPN The World Wide Port Name of the Port. This port can be either local or remote.

2.6 ServerAttrib

Syntax: HBACMD ServerAttrib <wwpn>

Description: Displays a list of attributes for the specified server.

Parameters : WWPN The World Wide Port Name of the server.

2.7 Download

Syntax: HBACMD DOWNLOAD <wwpn> <filename>

Description: Loads the specified firmware image to the HBA with the specified WWPN.

Parameters : WWPN The World Wide Port Name of the HBA that is the target of the firmware download. This HBA can be either local or remote.

FileName The pathname of the firmware image that is to be loaded. This can be any file that is accessible to the CLI client application.

2.8 Reset

Syntax: HBACMD RESET <wwpn>

Description: Resets the adapter with the specified World Wide Port Name.

Parameters : WWPN The World Wide Port Name of the Port. This port can be either local or remote.

2.9 TargetMapping

Syntax:	HBACMD TargetMapping <wwpn>	
Description:	Displays a list of mapped targets for the port with the specified World Wide Port Name.	
Parameters :	WWPN	The World Wide Port Name of the Port. This port can be either local or remote.

2.10 AllNodeInfo

Syntax:	HBACMD AllNodeInfo <wwpn>	
Description:	Displays a list of non-bound targets for the port with the specified World Wide Port Name.	
Parameters :	WWPN	The World Wide Port Name of the Port. This port can be either local or remote.

2.11 PersistentBinding

Syntax:	HBACMD PersistentBinding <wwpn> <source>	
Description:	Displays a list of persistently bound targets for the port with the specified World Wide Port Name.	
Parameters :	WWPN	The World Wide Port Name of the Port. This port can be either local or remote.
	Source	Binding source. Valid values are as follows: C – Configuration L – Live

2.12 SetPersistentBinding

Syntax:	HBACMD SetPersistentBinding <wwpn> <scope> <type> <id> <bus> <target>	
Description:	Sets a persistently bound target for the port with the specified World Wide Port Name.	
Parameters :	WWPN	The World Wide Port Name of the Port. This port can be either local or remote.
	Scope	Binding scope. Valid values are as follows: P – Bind set Permanently at reboot I – Bind set Immediately B – Bind set Both Immediately and Permanently at reboot
	Type	Bind type. Valid values are as follows: D – Enable binding by D_ID P – Enable binding by WWPN N – Enable binding by WWNN
	Id	Target Id. This is either the six digit D_ID, the WWPN, or the WWNN depending on the value of the Type parameter.
	Bus	SCSI Bus. The SCSI bus number.
	Target	SCSI Target. The SCSI target number.

2.13 RemoveAllPersistentBinding

Syntax:	HBACMD RemoveAllPersistentBinding <wwpn>	
Description:	Removes all persistently bound targets for the port with the specified World Wide Port Name.	
Parameters :	WWPN	The World Wide Port Name of the Port. This port can be either local or remote.

2.14 RemovePersistentBinding

Syntax:	HBACMD RemovePersistentBinding <wwpn> <type> <id> <bus> <target>	
Description:	Removes a persistently bound target for the port with the specified World Wide Port Name.	
Parameters :	WWPN	The World Wide Port Name of the Port. This port can be either local or remote.
	Type	Bind type. Valid values are as follows: D – Enable binding by D_ID P – Enable binding by WWPN N – Enable binding by WWNN
	Id	Target Id. This is either the six digit D_ID, the WWPN, or the WWNN depending on the value of the Type parameter.
	Bus	SCSI Bus. The SCSI bus number.
	Target	SCSI Target. The SCSI target number.

2.15 BindingCapabilities

Syntax:	HBACMD BindingCapabilities <wwpn>	
Description:	Displays the binding capabilities for the port with the specified World Wide Port Name.	
Parameters :	WWPN	The World Wide Port Name of the Port. This port can be either local or remote.

2.16 BindingSupport

Syntax:	HBACMD BindingSupport <wwpn> <source>	
Description:	Displays currently enabled binding support for the port with the specified World Wide Port Name.	
Parameters :	WWPN	The World Wide Port Name of the Port. This port can be either local or remote.
	Source	Binding Source. Valid values are as follows: C – Configuration L – Live

2.17 SetBindingSupport

Syntax:	HBACMD SetBindingSupport <wwpn> <bindFlag>	
Description:	Enables binding support for the given bind type flag for the port with the specified World Wide Port Name.	
Parameters :	WWPN	The World Wide Port Name of the Port. This port can be either local or remote.
	BindFlag	Binding Type Flag. Valid values are as follows: D – Enable binding by D_ID P – Enable binding by WWPN N – Enable binding by WWNN A – Enable binding by AUTOMAP DA – Enable binding by D_ID and AUTOMAP PA – Enable binding by WWPN and AUTOMAP NA – Enable binding by WWNN and AUTOMAP

2.18 DriverParams

Syntax:	HBACMD DriverParams <wwpn>	
Description:	Displays the driver parameters for the port with the specified World Wide Port Name.	
Parameters :	WWPN	The World Wide Port Name of the Port. This port can be either local or remote.

2.19 SetDriverParams

Syntax:	HBACMD SetDriverParams <wwpn> <CtrlWord> <Param> <Value>	
Description:	Sets a given driver parameter to a given value for the port with the specified World Wide Port Name.	
Parameters :	WWPN	The World Wide Port Name of the Port. This port can be either local or remote.
	CtrlWord	Control Word. Valid values are as follows: P – Permanent G – Global B – Both Permanent and Global N – Neither Permanent or Global

2.20 ResetDriverParams

Syntax:	HBACMD ResetDriverParams <wwpn> <CtrlWord>	
Description:	Resets driver parameters to their default values for the port with the specified World Wide Port Name.	
Parameters :	WWPN	The World Wide Port Name of the Port. This port can be either local or remote.
	CtrlWord	Control Word. Valid values are as follows: P – Permanent G – Global B – Both Permanent and Global N – Neither Permanent or Global