

The HBA Language

1. Introduction

The HBA language is designed to help users to transform the text records into HTML table format. The syntax of HBA language is simple. With several lines of HBA codes, the users are able to create a report in HTML format.

The HBA language is easy to use. With HBA language, the users don't have to know HTML language to generate reports in HTML table format.

The language is named after its typical usage – to generate HTML report for fibre-channel HBA – Host Bus adapter. To implement an enterprise SAN (storage Area Network) solution, an important step is to identify the driver and firmware versions of FC HBA, and make sure they are on the support matrix. HBA language will help field engineer to create HTML report of HBA very easily.

1.1 Features

Text Parsing

HBA allows a user to search through a set of data using the functions provided. The user will be able to state what the resulting action, usually it's to generate HTML file.

HTML Handling

HBA has the ability to describe HTML output clearly, and handle the HTML tags.

Data Comparison

HBA allows a user to compare the value of text string in the text file with the pre-defined string. If the actual string is different from the pre-defined string, the user can specify the actions, usually extra HTML table cells.

1.2 HBA Sample Syntax

Text parsing

```
//sample HBA syntax
```

```
InFileName = "..."; //text file name with full path
```

```
OutFileName = "..."; //output html file name with full path
```

```
Delimiter = ";"; //the default delimiter is semi-colon
```

```
OutFormat = HTML; //default output format
```

//sample text file content

Adapter Number : 1
Adapter Model : QLA2340
Adapter Node Name : 20-00-00-E0-8B-09-4A-2C
Adapter Port Name : 21-00-00-E0-8B-09-4A-2C
Driver Version : SCSIport 9.0.0.2 (w32 IP)
BIOS Version : 1.42
Firmware Version : 3.03.06
PortType (Topology) : NPort

//sample HMTL output

QLogic Adapter 0 - QLA2340 WWPN: 21-00-00-E0-8B-12-66-CF	
Connection Options	1 - Point-to-Point Only.
Data Rate	Auto
Adapter Model	QLA2340
Adapter Node Name	20-00-00-E0-8B-12-66-CF
Adapter Port Name	21-00-00-E0-8B-12-66-CF
Driver Version	SCSIport 9.0.0.2 (w32 IP)
BIOS Version	1.42
Firmware Version	3.03.06
PortType (Topology)	NPort

Data Comparison

//HBA code

\$DV = "9.0.2.12" ; //assign value to a pre-defined string

\$BS = "1.47" ;

IF (\$InputDV < \$DV)

; //then generate extra HTML table cell

IF (\$InputBS1 < \$BS)

; //then generate extra HTML table cell

//sample text file data:

Driver Version : SCSIport 9.0.0.2 (w32 IP)

BIOS Version : 1.42

//HTML output will be

Driver Version	SCSIport 9.0.0.2 (w32 IP)	Latest version of the SCSIport driver is 9.0.2.12 for Windows 2003.
BIOS Version	1.42	Latest version is 1.47 for Windows 2003.