# **Alber Battery Xplorer Enterprise**

System Installation Guide

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# **1. About Installing Battery Xplorer Enterprise**

# 1.1.Overview

This section outlines how to successfully install and configure the Battery Xplorer Enterprise system. These instructions describe two setup types for installing Battery Xplorer Enterprise software components. These components can be installed on a single computer using the **Complete** installation setup type or installed separately on multiple computers using the **Custom** installation setup type. Some of the reasons to install the Battery Xplorer Enterprise components separately are:

- **Performance** the amount of time for refreshes will be faster.
- **Stability** if one of the servers goes down then the other server will continue without interruption to the battery monitor application. Clustering can be beneficial for backup purposes in case one server goes down.
- Expandability more data can be accessed and saved by having additional servers.
- Security by using multiple machines, data can be housed on a separate machine for a more secured environment.

**Note**: For small stationary battery systems, installing using the complete install on one machine is recommended for ease of installation.

## 1.2. Getting started with the installation

To get started with the installation, review the following areas in this guide:

- Review the Battery Xplorer diagram section for high-level details on how the installation will be set up.
- When doing a complete install, refer to sections 1, 2, and 3.
   Note: All Battery Xplorer components are automatically installed when doing a Complete install setup type on one computer.
- When doing a custom install, refer to all sections including steps in section 4 in this document. Use the **Custom** install setup type for installing specific software components on specific computers.

**Note**: All components will automatically be installed on one computer when using the Complete Installation setup type. If the Custom setup is used the components can be installed on multiple computers.

## 1.3. Battery Xplorer Enterprise System Diagram

This diagram shows the Battery Xplorer Enterprise infrastructure system with a customer owned local network configuration hosted locally. This system environment is:

- Customer owned and maintained
- Has limited security concerns

#### **About Installing Battery Xplorer Enterprise**

- Will be in a stable environment for dependable service
- Expandable for growth of system



Figure 1 – Battery Xplorer Enterprise System Hosted Environment Customer Owned

## **1.4.Battery Xplorer Enterprise Client Supported Platforms**

The Battery Xplorer Enterprise monitoring application supports the following client platforms:

- Windows
- Mac
- Linux
- Tablets that support Android, iOS, and Windows tablet operating systems

The Battery Xplorer Enterprise monitoring application supports any of the following Web Browsers:

- Microsoft Internet Explorer version 8.0 or above
- Google Chrome version 20 or above (preferred)
- Safari version 5.1. or above
- Firefox version 13 or above

## **1.5.Battery Xplorer Enterprise Hardware and Software System Requirements**

The Battery Xplorer Enterprise monitoring application requires certain hardware to be setup before the software is installed. The following list provides a general guidance on Battery Xplorer Enterprise System hardware requirements:

- Processor Pentium 4 or better
- RAM 2 GB
- Software disk space approximately 500 MB or more
- Database disk space 5 GB or more
- Network topology Ethernet 100 mbps or better

The Battery Xplorer Enterprise monitoring application requires certain software components to be available before the software is installed. The following list provides the supported software components required before Battery Xplorer Enterprise System software is installed:

- Microsoft Windows XP Professional, SP 2 or above
- Adobe Reader version 9.0 or above
- Internet Information Services (IIS) Manager version 4.0 or above. Refer to section 2 for Installing and Configuring Internet Information Services (IIS).
- Microsoft ASP.NET and Microsoft ASP.NET AJAX

The following is a list of other required software components that are automatically installed during the installation of Battery Xplorer Enterprise software:

- VC 2005 Runtime
- Microsoft .NET Framework version 4.0
- Microsoft SQL Server Express 2008

# 2. Installing Internet Information Services (IIS and ASP.net)

**Note**: You must install Internet Information Services (IIS and ASP.net) before continuing with the Battery Xplorer Software Installation.

The following procedures explain how to install IIS and ASP.net on the Web server to communicate with the Battery Xplorer Enterprise system. IIS and ASP.net can be installed on the following platforms:

- Windows XP Professional- refer to sections 2.1
- Windows 7 Professional, Enterprise, or Ultimate and Windows 8 refer to sections 2.2
- Windows 2012 refer to sections 2.3

### 2.1. Installing Internet Information Services on Windows XP

Follow these steps to install IIS and ASP.net.

- 1. From the Start menu, select Control Panel, double-click Add or Remove Programs.
- 2. Click Add/Remove Windows Components. The Windows Components Wizard window appears.
- 3. Click the check box for Internet Information Services (IIS) and click Next.

Windows Components Wizard	×
Windows Components You can add or remove components of Windows XP.	t
To add or remove a component, click the checkbox. A shaded by part of the component will be installed. To see what's included in Details.	ox means that only a component, click
Components:	
🗆 🗭 Indexing Service	0.0 MB 🔺
🗹 🥶 Internet Explorer	0.0 MB
🗹 🎀 Internet Information Services (IIS)	13.5 MB
Management and Monitoring Tools	2.0 MB
Message Queuing	помв 🗾
Description: Includes Web and FTP support, along with support f transactions, Active Server Pages, and database co	or FrontPage, nnections.
Total disk space required: 68.6 MB	Details
Space available on disk: 83415.7 MB	
< Back N	Next > Cancel

#### Figure 2 – Installing Internet Information Services on Windows XP

4. The Configuring Components window appears.

Windows Con	nponents Wizard X
<b>Configurin</b> Setupi	ng Components s making the configuration changes you requested.
0	Please wait while Setup configures the components. This may take several minutes, depending on the components selected.
Status:	Building file list
	< Back Next > Cancel
	< Back Next > Cancel

Figure 3 – Installing and Configuring Internet Information Services on Windows XP

5. If prompted, insert your Windows XP disk or browse to C:\i386 and click OK.

Windows Components Wizard		
Co	o <b>nfiguring</b> Setup is m	Components naking the configuration changes you requested.
	Files Nee	eded X
	•	Some files on Windows XP Professional CD-ROM are OK needed. Cancel Insert Windows XP Professional CD-ROM into the drive selected below, and then click OK.
		Copy files from: C:\i386 Browse
		< Back Next > Cancel

#### Figure 4 – Installing and Configuring Internet Information Services on Windows XP

6. The Configuring Components window appears showing the progress of the IIS install. The IIS files will be installed on your machine.

Windows Con	nponents Wizard 🛛 🔀
<b>Configurin</b> Setup i	is making the configuration changes you requested.
6	Please wait while Setup configures the components. This may take several minutes, depending on the components selected.
Status:	Copying files
	< Back. Next > Cancel



7. Click **Finish**. The IIS and ASP.net software is installed. Reboot if prompted. The Battery Xplorer Enterprise Web feature is now ready to be installed.



Figure 6 – Installing and Configuring Internet Information Services on Windows XP Complete

## 2.2.Installing Internet Information Services for Windows 7 and Windows 8

1. Press the **Windows key** + **R**, to open the Run window, then type **appwiz.cpl** and press **Enter** or click **OK**.

📨 Run		×
	Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.	
<u>O</u> pen:	appwiz.cpl	
	🛞 This task will be created with administrative privileges.	
	OK Cancel <u>B</u> rowse	
	OK Cancel <u>B</u> rowse	

Figure 7 – Using the Run window to Access Internet Information Services Window

2. On the left hand pane, click on Turn Windows features on or off.

Control Panel\Programs\Programs and Features			
Progr • Program	ns and Features 🔹 🔻 🔯 🛛 Search Programs a	nd Features 🛛 😥	
<u> </u>			
Control Panel Home	Uninstall or change a program		
View installed updates	To uninstall a program, select it from the list and Change, or Repair.	then click Uninstall,	
Install a program from the network	Organize 🔻 Uninstall	:= • 🔞	
	Name 🔺	✓ Publisher	
	E AccelerometerP11	STMicroelectronics	
	🝌 Adobe Acrobat 9 Standard	Adobe Systems	
	Adobe AIR	Adobe Systems Incorp	
	i Adobe Community Help	Adobe Systems Incorp	
	🖊 Adobe Flash Player 11 ActiveX	Adobe Systems Incorp	
	😕 Adobe PDF Creation Add-On 9	Adobe Systems	
	뒖 Adobe RoboHelp 9	Adobe Systems Incorp	
	😻 Alber Battery Explorer 2_1	Alber	
	🟹 Alber BMDM	Alber	
	🗐 Alber UXIM and UXTM Configurator	Alber 🗾	
	•	•	
	Coupons.com Incorporated		

Figure 8 – Accessing Programs and Features for Configuring Internet Information Services

3. Check the box for Internet Information Services and expand the tree to World Wide Web Services then Application Development Features and select ASP, ASP .NET 3.5, ASP .NET 4.5 and then under Security select Windows Authentication check boxes. Click OK to apply the changes, a message stating that the changes are being made appears, restart if prompted.

Windows Features	×
Turn Windows features on or off	0
To turn a feature on, select its check box. To turn a feature off, clear its check box. A filled box means that only part of the feature is turned on.	Ŭ
<ul> <li>Games <ul> <li>Indexing Service</li> <li>Internet Explorer 11</li> <li>Internet Information Services</li> <li>FTP Server</li> <li>Web Management Tools</li> <li>World Wide Web Services</li> <li>World Wide Web Services</li> <li>Mappication Development Features</li> <li>ASP</li> <li>ASP</li> <li>ASP.NET</li> <li>CGI</li> <li>ISAPI Extensibility</li> <li>Server-Side Includes</li> <li>ISAPI Filters</li> <li>Server-Side Includes</li> <li>Mealth and Diagnostics</li> <li>Security</li> <li>Basic Authentication</li> <li>Client Certificate Mapping Authentication</li> <li>Digest Authentication</li> <li>IIS Client Certificate Mapping Authentication</li> <li>IIS Clie</li></ul></li></ul>	

Figure 9 – Selecting IIS for Windows 7 or 8



Figure 10 – Information Window for Changes to Features

The Battery Xplorer Enterprise Web feature is now ready to be installed.

### 2.3. Configuring Internet Information Services for Windows 2012 Server

To install and configure Internet Information Services on the Web Server with Windows 2012 Server, follow these steps.

 From the Start menu, select Control Panel, Programs, Programs and features, then Turn Windows features on or off. The Before You Begin Add Roles and Features Wizard window appears.

<b>a</b>	Add Roles and Features Wizard
Before you begin	DESTINATION SERVER batteryxplorer
Before You Begin Installation Type	This wizard helps you install roles, role services, or features. You determine which roles, role services, or features to install based on the computing needs of your organization, such as sharing documents, or hosting a website.
Server Selection Server Roles	To remove roles, role services, or features: Start the Remove Roles and Features Wizard
Features Confirmation Results	<ul> <li>Before you continue, verify that the following tasks have been completed:</li> <li>The Administrator account has a strong password</li> <li>Network settings, such as static IP addresses, are configured</li> <li>The most current security updates from Windows Update are installed</li> <li>If you must verify that any of the preceding prerequisites have been completed, close the wizard, complete the steps, and then run the wizard again.</li> <li>To continue, click Next.</li> </ul>
	Skip this page by default
	< Previous Install Cancel

#### Figure 11 – Beginning to Add Roles and Features on a Windows 2012 Server

2. Read the information in the previous window and click **Next**, the Select Installation Type window appears.

<b>B</b>	Add Roles and Features Wizard	
Select installation	n type Destination server batteryxplorer	
Before You Begin Installation Type	Select the installation type. You can install roles and features on a running physical computer or virtual machine, or on an offline virtual hard disk (VHD).	
Server Selection Server Roles	<ul> <li>Role-based or feature-based installation</li> <li>Configure a single server by adding roles, role services, and features.</li> </ul>	
Features Confirmation Results	<ul> <li>Remote Desktop Services installation         Install required role services for Virtual Desktop Infrastructure (VDI) to create a virtual machine-based or session-based desktop deployment.     </li> </ul>	
< Previous Next > Install Cancel		

#### Figure 12 – Install Type for Adding Roles and Features on a Windows 2012 Server

 Select the installation type for installing roles and features on a running physical computer or virtual machine, or you may install on a offline virtual hard disk (VHD). Click the dialog button for Role-based or feature-based installation. This option will configure a single server by adding roles, role services and features.

Note: Do not select Remote Desktop Services Installation at this time.

4. Click **Next**, the Select Destination Server window appears.

<u>الم</u>	Add	Roles and Features	Wizard	D X
Select destinati	on server		DESTINATI	ON SERVER tteryxplorer
Before You Begin Installation Type Server Selection	Select a server or a virtual hard disk on which to install roles and features.   Select a server from the server pool  Select a virtual hard disk			
Server Roles Features Confirmation	Server Pool			
	Name batteryxplorer	IP Address 10.74.242.27	Operating System Microsoft Windows Server 2012 Datacenter	
	1 Computer(s) found This page shows sen Add Servers commar collection is still inco	l vers that are running Wir nd in Server Manager. Of mplete are not shown.	dows Server 2012, and that have been added b fline servers and newly-added servers from whic	y using the th data
		< <u>P</u> re	evious <u>N</u> ext > <u>I</u> nstall	Cancel

#### Figure 13 – Select Server from the Server Pool on a Windows 2012 Server

5. Select a server or a virtual hard disk on which to install roles and features to a running physical computer or virtual machine, by clicking on the dialog button for Select a server from the server pool. This option will select a server or a virtual hard disk on which to install roles and features. Highlight the name of the server that was found that you want to select. The Server Pool area shows the Name, IP Address and the Operating System of the Windows Server 2012 machines that are currently running. Any Offline servers or newly added servers from which data collection is still incomplete will not be shown in the window.

Note: Do not select the virtual hard disk option at this time.

6. Click **Next**, the Select Server Roles window appears.

<u>ک</u>	Add Roles and Features Wizard	_ <b>_</b> ×
Select server roles Before You Begin Installation Type Server Selection Server Roles Features Confirmation Results	Add Roles and Features Wizard         Select one or more roles to install on the selected server.         Roles         Volume Activation Services         Image: Web Server (IIS) (12 of 43 installed)         Image: Web Server (IIS) (12 of 43 installed)         Image: Web Server (IIS) (12 of 43 installed)         Image: Web Server (II of 34 installed)         Image: Web Server (II of 34 installed)         Image: Web Server (II of 24 installed)         Image: Web Server (II of 94 installed)         Image: Web Server (II of 91 installed)         Image: Web Server (II of 92 installed)         Image: Web Server (II of 92 installed)      <	Description Active Server Pages (ASP) provides a server side scripting environment for building Web sites and Web applications. Offering improved performance over CGI scripts, ASP provides IIS with native support for both VBScript and JScript. Use ASP if you have existing applications that require ASP support. For new development, consider using ASP.NET.
	WebSocket Protocol	

Figure 14 – Select Server Roles on a Windows 2012 Server

- 7. Select **Application Development (Installed)**, then expand it and verify that. The following options are selected:
  - .Net Extensibility 3.5 (Installed)
  - .Net Extensibility 4.5 (Installed)
  - ASP (Installed)
  - ASP.Net 3.5 (Installed)
  - ASP.Net 4.5 (Installed)

- ISAPI Extensions (installed)
- 8. Under Security, expand and select the Windows Authentication option.
- 9. This window provides infrastructure for developing and hosting Web applications. These features are used for creating Web content or extend the functionality of IIS. These options provide a way to perform dynamic operations that result in the creation of HTML output, which IIS then sends to fulfill client requests.
- 10. Click **Next** to continue and follow the prompts to complete the install of the roles and features for Windows 2012 Server.

To verify the Handler Mappings feature in IIS Manager. Do the following steps:

1. Click Start, Control Panel, Administrative Tools then Internet Information Services (IIS) Manager the IIS Manager window appears.



Figure 15 – Select Handler Mappings in IIS Manager on a Windows 2012 Server

2. Double click on the Handler Mappings icon. The Handler Mappings window appears.

#### Installing Internet Information Services (IIS and ASP.net)

<b>6</b>				Internet	Information Services (IIS) Mar	nager
Satteryxplorer →						
<u>File View H</u> elp						
Connections Conne	Handler Mappings Use this feature to specify the resources, such as DLLs and managed code, that handle responses for specific request types.					
- 2 Application Pools	Group by: State	Dette	0.00	D.H.T.	Line and the second sec	с. т
V Sites	Name	Path	State	Path Type	Handler	Entry Type
	ISAPI-dil	*.dll	Disabled	File	IsapiModule	Local
	Enabled					
	ASPClassic	*.asp	Enabled	File	lsapiModule	Local
	aspq-Integrated-4.0	*.aspq	Enabled	Unspecified	System.Web.HttpForbiddenH	Local
	aspq-ISAPI-4.0_32bit	*.aspq	Enabled	Unspecified	Isapi Module	Local
	aspq-ISAPI-4.0_64bit	*.aspq	Enabled	Unspecified	IsapiModule	Local
	AssemblyResourceLoader-Inte	WebResource.axd	Enabled	Unspecified	System.Web.Handlers.Assem	Local
	AssemblyResourceLoader-Inte	WebResource.axd	Enabled .	Unspecified	System.Web.Handlers.Assem	Local
	AXD-ISAPI-2.0	*.axd	Enabled	Unspecified	lsapiModule	Local
	AXD-ISAPI-2.0-64	*.axd	Enabled	Unspecified	IsapiModule	Local
	AXD-ISAPI-4.0_32bit	*.axd	Enabled	Unspecified	IsapiModule	Local
	AXD-ISAPI-4.0_64bit	*.axd	Enabled	Unspecified	IsapiModule	Local
	cshtm-Integrated-4.0	*.cshtm	Enabled	Unspecified	System.Web.HttpForbiddenH	Local
	cshtm-ISAPI-4.0 32bit	*.cshtm	Enabled	Unspecified	IsapiModule	Local
	cshtm-ISAPI-4.0 64bit	*.cshtm	Enabled	Unspecified	IsapiModule	Local
	cshtml-Integrated-4.0	*.cshtml	Enabled	Unspecified	System, Web, HttpForbiddenH	Local
					i sa in	

#### Figure 16 – Select ASP and ASP.NET for Configuring IIS on a Windows 2012 Server

- 3. The Handler Mappings window shows all the resources such as DLLs and managed code that the handler responses for specific request types. Verify that all the items in the state column are set to Enabled as shown in the figure above.
- 4. From the main menu, click **File** then **Close** to exit the Internet Information Service (IIS) Window. The Battery Xplorer Web application is ready to be installed.

# 3. Installing the Vertiv Battery Xplorer Enterprise System

To install the Vertiv Battery Xplorer Enterprise system, follow these steps:

1. Insert the Vertiv Battery Xplorer Enterprise CD and browse the CD for the **setup.exe** file. The software will start the installation preparation.



Figure 17 – Preparing to Install Battery Xplorer

The Welcome to the InstallShield Wizard for Vertiv Battery Xplorer Enterprise window appears.

2. Follow the prompts in the Vertiv Battery Xplorer InstallShield wizard by clicking Next.



Figure 18 – Install Battery Xplorer Welcome

The Setup Type window appears.

- If **Complete** is clicked, all program features are installed at once.
- If **Custom** is clicked, refer to the next section on Installing Battery Xplorer Enterprise through Custom Setup (Optional).
- 3. Click Next.

🙀 Alber Battery	v Xplorer Enterprise - InstallShield Wizard	×	
Setup Type Choose the setup type that best suits your needs.			
Please select a	a setup type.		
C Complete	e All program features will be installed. Please note that Internet Information Services (IIS) must be installed before proceeding with this option. Choose which program features you want installed and where they will be installed. Recommended for advanced users.		
To all all the full			
Instalionield ———	< Back Next > Canc	el	

Figure 19 – Battery Xplorer Installation Setup Type

**Note**: If Microsoft SQL Server Express 2008 is not installed, the Battery Xplorer Enterprise software installation will automatically install the Microsoft SQL Server Express 2008. The installation can take up to 20 minutes to install SQL software.

4. The Vertiv Battery Xplorer InstallShield wizard is ready to install by clicking Install.

🙀 Alber Battery Xplorer Enterprise - I	installShield Wizard	×
Ready to Install the Program The wizard is ready to begin installation	ı.	
Click Install to begin the installation.		
If you want to review or change any of exit the wizard.	your installation settings, click Back. Clic	k Cancel to
InstallShield	< Back	Cancel

Figure 20 – Ready to Install Battery Xplorer

**Note**: If Internet Information Services (IIS) is not installed, the following window appears. Press **Cancel** to abort the installation wizard, then refer to section 2 on how to install IIS. Re-run the installation wizard after IIS has been installed.



Figure 21 – Battery Xplorer Error message if Internet Information Services is not installed

5. A progress bar will appear showing the installation progress. Expect to see Microsoft SQL installation screens throughout the installation process as shown below.

Note: Wait for the software installation for the Battery Xplorer application to complete.



Figure 22 – Battery Xplorer Installation In Progress

<b>Extracting Files</b>		×
Extracting File: To Directory:	_sfx_0571p c:\3cf648783fd452cf163adb1c40	

Figure 23 – Installing Microsoft SQL Server for Battery Xplorer Enterprise



Figure 24 – Installing Microsoft SQL Server for Battery Xplorer Enterprise Continued



Figure 25 – Installing Microsoft SQL Server for Battery Xplorer Enterprise Continued

🍀 SQL Server 2008 R2 Setup				×
Setup Support Files				
Click Install to install Setup Support	files. To install or update SQL Serve	er 2008 R2, these files are require	ed.	
Setup Support Files	The following components are re	equired for SQL Server Setup:		
	Feature Name	Status		
	Setup Support Files			
	FvecuteCalculateScenarioWorkf	OW		
				a 1
			< <u>B</u> ack Install	Cancel

Figure 26 – Installing Microsoft SQL Server Setup Support Files

6. After the installation is complete, it is recommended to launch the Web Application Manager application. If you leave the check box checked it will launch the Web Application Manager and will guide you through setting up the Battery Xplorer Enterprise system. Click **Finish** to continue. Skip to section 5 for first time installation and configuration instructions.



Figure 27 – Battery Xplorer Installation Completed

# 4. Installing Battery Xplorer Enterprise through Custom Setup (Optional)

The following procedure describes how to install specific components of the Battery Xplorer Enterprise Application on separate computers using the Custom Installation option.

- 1. Insert the Vertiv Battery Xplorer Enterprise CD and browse the CD for the **setup.exe** file. The software will start the installation preparation.
- 2. Follow the prompts in the Vertiv Battery Xplorer InstallShield wizard by clicking **Next**. The Setup Type window appears. For a customized install, choose **Custom**.

👹 Alber Battery 🕻	Xplorer Enterprise - II	nstallShield Wiz	ard	×
Setup Type Choose the set	up type that best suits y	our needs.		
Please select a	setup type.			
• Complete	All program features wil Information Services (II this option.	l be installed. Ple S) must be install	ase note that Intern ed before proceeding	et g with
C Custom	Choose which program I will be installed. Recomm	<sup>f</sup> eatures you wan nended for advar	t installed and where ced users.	e they
InstallShield		< Back	Next >	Cancel

#### Figure 28 – Battery Xplorer Enterprise Custom Setup Type

**Note**: For a single machine installation, it is recommended to do a complete installation to ensure that all components of Battery Xplorer Enterprise is installed appropriately.

The following information describes each Battery Xplorer Enterprise feature that can be installed separately on different machines. If you have already done a complete installation, you can skip this part of the section and proceed to section 5.

🙀 Alber Battery Xplorer Enterprise - InstallShield Wiz	ard 🔀
<b>Custom Setup</b> Select the program features you want installed.	
Click on an icon in the list below to change how a feature is ir	nstalled.
•       Battery Xplorer Enterprise Web Application         •       Web Application Manager (WAM)         •       SQL Server Database Engine         •       Database Import Manager (DIM)         •       Monitor Engine         •       Configuration Manager         •       Documentation	Feature Description This will install the Battery Xplorer Web Application and configure it on Windows Internet Information Services (IIS). This feature requires IIS to be installed and running.
Install to:	
C: (Program Files (X86) (Alber (Battery Xpiorer Enterprise)	<u>C</u> hange
InstallShield	
Help Space < Back	Next > Cancel

Figure 29 – Battery Xplorer Enterprise Custom Setup Type

## **4.1.Battery Xplorer Enterprise Web Application**

The Battery Xplorer Enterprise Web Application is used to install files and configure the settings and connections required for the Battery Xplorer Enterprise Web application to function properly on a browser.

🙀 Alber Battery Xplorer Enterprise - InstallShield Wizard				
<b>Custom Setup</b> Select the program features you want installed.				
Click on an icon in the list below to change how a feature is in Battery Xplorer Enterprise Web Application Web Application Manager (WAM) SQL Server Database Engine Database Import Manager (DIM) Monitor Engine Configuration Manager Documentation	Installed. Feature Description This will install the Battery Xplorer Web Application and configure it on Windows Internet Information Services (IIS). This feature requires IIS to be installed and running.			
Install to: C:\Program Files (x86)\Alber\Battery Xplorer Enterprise\ InstallShield	<u>⊂</u> hange			
Help Space < Back	Next > Cancel			

Figure 30 – Battery Xplorer Enterprise Web Application Custom Setup Installation
# 4.2. Web Application Manager (WAM)

The Web Application Manager is used to configure the database and the battery Explorer Enterprise Web settings and connections required for the Battery Xplorer Enterprise application to function properly.

🛃 Alber Battery Xplorer Enterprise - InstallShield Wiz	zard 🗙
Custom Setup         Select the program features you want installed.         Click on an icon in the list below to change how a feature is in	Installed. Feature Description This feature installs the Web Application Manager that will be used to configure the settings and connections required for the Battery Xplorer Enterprise Web to function properly.
 Install to: C:\Program Files (x86)\Alber\Battery Xplorer Enterprise\	
InstallShieldSpace< <u>Back</u>	Cancel

Figure 31 – Battery Xplorer Custom Setup Installation for Web Application Manager

For details on how to setup Battery Explorer Enterprise system for the first time, refer to section 5. "Setting Up the Battery Xplorer Enterprise System for the First time". This section explains how to configure the settings and connections for the Web Application Manager.

# 4.3.SQL Server Database Engine (SQL)

The SQL Server Database Engine is used to install the SQL database engine is required for the Battery Xplorer Enterprise application to function properly. The primary use for the SQL Server database engine is for storing, processing and securing data. It also provides controlled access and fast transaction processing to meet the requirement needs of your data in the Battery Xplorer Enterprise application.

🙀 Alber Battery Xplorer Enterprise - 1	InstallShield Wi	zard	×
<b>Custom Setup</b> Select the program features you want in	nstalled.		
Click on an icon in the list below to change how a feature is in Battery Xplorer Enterprise Web Application Web Application Manager (WAM) SQL Server Database Engine Database Import Manager (DIM) Monitor Engine Configuration Manager Documentation		nstalled. Feature Descrip This feature will database engine to be used with Enterprise.	tion install the SQL a and configure it Battery Xplorer
Install to: C:\Program Files (x86)\Alber\Battery Xplor InstallShield	er Enterprise\		Change
Help Space	< <u>B</u> ack	Next >	Cancel

Figure 32 – Battery Xplorer Custom Setup Installation for SQL Server Database Engine

**Note**: If Microsoft SQL Server Express 2008 R2 is not installed, the Battery Xplorer Enterprise software installation will automatically install the Microsoft SQL Server Express 2008 R2. The installation can take up to 20 minutes to install SQL software.

# 4.4. Database Import Manager (DIM)

The Vertiv Battery Xplorer Enterprise Database Import Manager (DIM) is a comprehensive feature allowing import of system configuration and historical data from existing BMDM MS Access and SQL databases and from next generation products (i.e. UXCM) to the Battery Xplorer Enterprise database. System configuration data includes information such as customer data, location data, battery, string, and cell setup data. Historical data contains information such as battery, string and cell data captured over time either periodically or by user request that can be used for trending and multiple data set comparisons.

The DIM provides an intuitive interface, with instructions, that guide a user through the process of importing data from a source database (a user selected database such as an existing BMDM SQL or MS Access database) to the destination database (a user selected Battery Xplorer database). The process of importing is done in four steps:

- Source Data Connection allows selection of the source database or device for import.
- Destination Data Connection allows selection of the Battery Xplorer database to store the imported data.
- Configuration Data Import collects the configuration data from the source and presents the
  information on the left pane (Source Database) of the application. User can later select the
  information that is desired for import into the destination database (Battery Xplorer). The Source
  Database pane is highlighted in different colors to indicate whether data already exists in the
  database (green) or is new data (red).
- Historical Data Import transfers all data from the source database to the destination database. If the historical data from the source already exists in the destination database it is skipped (not transferred/not duplicated) in the destination database.

🖶 Alber Battery Xplo	rer Enterprise -	InstallShield Wiz	ard	×
<b>Custom Setup</b> Select the program fe	eatures you want i	nstalled.		
Click on an icon in the list below to change how a feature is in Battery Xplorer Enterprise Web Application Web Application Manager (WAM) SQL Server Database Engine Database Import Manager (DIM) Monitor Engine Configuration Manager Documentation		stalled. Feature Descrip This feature will Battery Xplorer Database Impor tool is used to in configuration ar into Battery Xplo	tion install the Enterprise t Manager. This nport nd historical data orer Enterprise.	
Install to: CUBrogram Files (v86)	Alber/Pottery Vela	ror Entorprice'		
InstallShield	Alber (battery Apiol			Change
Help	Space	< <u>B</u> ack	<u>N</u> ext >	Cancel



For details on how to setup Battery Explorer Enterprise system for the first time, refer to section 5. "Setting Up the Battery Xplorer Enterprise System for the First time". This section explains how to import configuration and historical data for the Database Import Manager.

# 4.5.Configuration Manager (CM)

The Configuration Manager is a feature that is used to install the configuration manager for configuration of multiple Battery Explorer Enterprise e-mail settings such as SMTP, email testing and other configuration settings.

🙀 Alber Battery Xplorer Enterprise - InstallShield Wizard			
Custom Setup       Select the program features you want installed.			
Click on an icon in the list below to	change how a feature is ir	nstalled.	
Battery Xplorer Enterprise Web Application Web Application Manager (WAM) SQL Server Database Engine Database Import Manager (DIM) Monitor Engine Configuration Manager Documentation			
Install to:			
C:\Program Files (x86)\Alber\Batte	ry Xplorer Enterprise\	<u>C</u> hange	
Help Space	e < <u>B</u> ack	Next > Cancel	

Figure 34 – Battery Xplorer Custom Setup Installation for Configuration Manager

For details on how to setup Battery Explorer Enterprise system for the first time, refer to section 5. "Setting up the Battery Xplorer Enterprise System for the First time". This section explains how to install and configure SMTP settings using the Configuration Manager.

# 4.6. Monitor Engine (MSM)

The Monitor Engine is a feature that is used to install the HAL Drivers, Process Manager, Watchdog, and the Monitor Service Manager application for the Battery Explorer Enterprise.

🛃 Alber Battery Xplorer Enterprise - InstallShield	Wizard 🔀
<b>Custom Setup</b> Select the program features you want installed.	
Click on an icon in the list below to change how a feature Battery Xplorer Enterprise Web Application Web Application Manager (WAM) SQL Server Database Engine Database Import Manager (DIM) Monitor Engine Configuration Manager Documentation	is installed. This feature Description This feature will install the Battery Xplorer Enterprise Monitor Engine that will install processes used to monitor the hardware such as the HAL Drivers, Process Manager, Watchdog, and the Monitor Service Manager application.
Install to: C:\Program Files (x86)\Alber\Battery Xplorer Enterprise\	hange
Install5hield	Next > Cancel

### Figure 35 – Battery Xplorer Custom Setup Installation for Monitor Service Manager

The following processes are installed on the Monitor Engine machine:

- HAL Driver
- Process Manger
- Watchdog
- Monitor Service Manager

For details on how to setup Battery Explorer Enterprise system for the first time, refer to section 5. "Setting Up the Battery Xplorer Enterprise System for the First time". This section explains how to configure the settings for the Monitor Service Manager.

## 4.7. Documentation

The documentation feature will install all the documentation PDF files for installing and configuring the Battery Explorer Enterprise Web application.

🙀 Alber Battery Xplorer Enterprise - InstallShield Wi	zard 🔀
<b>Custom Setup</b> Select the program features you want installed.	
Click on an icon in the list below to change how a feature is in	nstalled.
Battery Xplorer Enterprise Web Application Web Application Manager (WAM) SQL Server Database Engine Database Import Manager (DIM) Monitor Engine Configuration Manager Documentation	Feature Description This feature will install Documentation for the Battery Xplorer Enterprise system.
Install to:	
C:\Program Files (x86)\Alber\Battery Xplorer Enterprise\ InstallShield	hange
Help Space < Back	Next > Cancel

Figure 36 – Battery Xplorer Custom Setup Installation for Documentation

After making your installation selections, click **Next** to install the program features.

Wait for the software installation for the Battery Xplorer application to complete.



Figure 37 – Battery Xplorer Installation Progress Window

Click **Finish**. The Custom Installation is complete.



Figure 38 – Battery Xplorer Installation Complete Window

It is recommended to launch the Web Application Manager now. If you leave the check box checked it will automatically launch the Web Application Manager and will guide you through setting up the Battery Xplorer Enterprise system.

# 5. Setting Up the Battery Xplorer Enterprise System for the First Time

To set up the Battery Xplorer Enterprise system for the first time, launch the Web Application Manager and follow these steps:

**Note**: After the install, the Web Application Manager (WAM) will be launched automatically if the checkbox was checked on the Battery Xplorer Wizard complete window. If the checkbox was not checked, follow the steps below.

- 1. Click **Start**, **All Programs**, **Alber**, **Battery Explorer Enterprise** then **Web Application Manager**. The Web Application Manager window appears.
- 2. To configure the Web application, press **Start**.



Figure 39 – Battery Xplorer Web Application Manger Window

3. The Connect to SQL Server window appears. On a complete install, the default database is already pre-populated in the connection field (LOCALHOST\BEENT\_SQL). Click **Connect** to connect to the default database. For custom installations, browse to the database you wish to connect, enter the SQL server IP address or server name in the connection field.

Setting Up the Battery Xplorer Enterprise System for the First Time



Figure 40 – Battery Xplorer Connect to SQL Server Window

4. A Window appears indicating the database does not exist yet and prompts you to create a new database. Click **yes** to create a new database.

Cannot Connect	×
Cannot find BX Enterprise DB on conne	ected SQL Server. Create new DB?
	Yes <u>N</u> o



5. A window appears indicating the database creation was successful. Click **OK** to acknowledge the creation of the Battery Xplorer database.



Figure 42 – Battery Xplorer Enterprise Database Created Window

6. On the Inialization Complete window, click **OK**.

ОК	×
Initialization complete.	
ОК	

Figure 43 – Inialization Complete

7. A window appears indicating the Web application initialized. Click **Exit**, the system will launch the DIM next.



#### Figure 44 – Create New Battery Xplorer Enterprise Database Window

8. On the Database Import Manager window, click **Connect to Data Source** to choose your desired data source for import.

# Setting Up the Battery Xplorer Enterprise System for the First Time

Battery Xplorer Enterprise Database Import Manager		
Battery Xplorer E Database Imp	Enterprise port Manager	0
Source Database	Instructions         Welcome to the Battery Xplorer Enterprise Database Impott Manager.         Connect to the data source you wish to import data from by pressing the button below.         Connect to Data Source         Connect to Data Source         Connect To Data Source         Connect To Data Source       Connect To BX Enterprise         Import Configuration       Import History         Back       Next	Destination Database
Selected Item		Exit

Figure 45 – Battery Xplorer Enterprise Database Import Manager Window

**Note**: Refer to the Vertiv Battery Xplorer Enterprise Database Import Manager Getting Started Guide for details on how to utilize the Database Import Manager.

9. Choose your data source and click **Next**. Follow the steps in the Database Import Getting Started Guide to connect to the selected device.



Figure 46 – Connecting to Datasource System Type

- 10. After connecting to the selected device, click **Connect to BX Enterprise** button to connect to the database.
- 11. Check the desired check boxes on Source Database field to import configuration. Click **Import** Selected Configuration Items button to continue.

Battery Xplorer Enterprise Database Impor		
Battery Xplo Database	rer Enterprise I <mark>mport Manager</mark>	9
Source Database	Instructions D	estination Database
⊡- 🛛 👬 Albercorp	Connected To Data Source Data source hardware data has now been read. Connect to the Battery Xplorer Enterprise database by pressing the button below.	
	Previous Connection Data Found	
	Connect to Battery Xplorer Enterprise database on server LOCALHOST\BEENT_SQL?	
	Yes No	
	Connect To BX Enterprise	
Connected : 10.203.123.65		Exit

Figure 47 – Database Import Manager Connection Data Found

12. The Previous Connection Data Found window appears. Click **Yes** to connect to the database and populate the destination database field.

# Setting Up the Battery Xplorer Enterprise System for the First Time

Battery Xplorer Enterprise Database Import Man	ager	
Battery Xplorer Database Im	Enterprise port Manager	8
Source Database	Instructions	Destination Database
<ul> <li>■ Alber Lab</li> <li>■ Pompano Beach, FL</li> <li>■ ■ M Battery System 65</li> <li>■ ■ M String: 1X4X12V</li> <li>■ ■ M Lab</li> <li>■ ■ M Lab</li> </ul>	Ready To Import Configuration Check the desired items in the Source Database to be added to the Battery Xplorer Enterprise Database, then press the Import button.	
	Current Status         Connect To Data Source         Connect To BX Enterprise         Import Configuration         Import History         Back       Skip ▼	
Connected : 10.203.123.65		Exit

### Figure 48 – Database Import Manager Connection Data Found

**Note:** Make sure you check the desired check boxes on Source Database field.

- 13. Click **Import History** button to import history, after import press **Exit**.
- 14. To launch the Configurarion Management window, click **Yes**.

15. After configuring and exiting the Database Import Manager a BXE Configuration Management window appears prompting to enter your SMTP Server information (Port, Username and Password are optional). Click **Save** and then click **Test Settings** to test your email settings.

🖳 BXE Configuration Manage	er		[		×
					About
SMTP Server Name		Port			
inetmail.emrsn.com		25			
Usemame (optional)	Password (optional)		Use SSL Sec	urity	
Save	Test Sett	ings		Exi	t

**Note**: Check the **Use SSL Security** checkbox if the SMTP server requires SSL encryption.



16. Type in the Email address that you want to send the test message to.

🛃 Email Test Form	
T	
10.	
test@test.com	Send Test Email
Subject:	_
Test Email From BXE Configuration Manager	
Body:	
This is a test email from the BXE Configuration verify that SMTP settings are correct.	Manager, to
	Close

Figure 50 – Battery Xplorer Enterprise Email Test Form

17. Click **Send Test Email**. A message appears confirming that the email was sent successfully. Click **Close**. Check your email to verify the message was received. Click **OK** then click **Exit**.



Figure 51 – Message Sent Successfully Window

18. The Previous connection Data found windows appears. Click **Yes** to connect to the database and the system will launch the Monitor Service Manager.

Previous Co	onnection Data Found		X
?	3XE Monitor Service Manager : Enterprise database on server	Connect to Batti LOCALHOST\BEE	ery Xplorer INT_SQL?
		Yes	No

Figure 52 – Battery Xplorer Enterprise Database Connection Window

19. In the Monitor Service Manager, click **Start** to automatically configure the connections to the monitors.

# Setting Up the Battery Xplorer Enterprise System for the First Time

	S/N PortableTestEixtureSal	Connection	Computer Name	
	S/N PortableTestEivtureSal	Assigned	Computer Name	
IP Address Model	DortableTestFixtureCal	Abayrica	Compater Nume	
▶ 10.203.123.65 UXBM/50		I False		

### Figure 53 – Battery Xplorer Enterprise Monitor Service Manager Window

20. The Monitor Service Manager completed message appears. On the Complete window, click **OK**.



### Figure 54 – Monitor Service Manager Configuration Complete Window

- 21. On the Monitor Service Manager window, click Exit.
- 22. Double click on the **Battery Xplorer Enterprise** icon on your desktop. The system will open the Battery Xplorer Enterprise Web application using the default browser.

**Note**: To launch the Battery Xplorer Enterprise Web page from another computer, type the following address on your Web browser:

http://computer name/BEEnterpriseWeb/default.aspx

Where *computer name* is the name or IP Address of the computer that Battery Explorer Enterprise has been installed.

If you desire to have a custom name for example, Battery Xplorer.com to access your Battery Xplorer Enterprise Web page, Contact your Systems Administrator for the necessary DNS changes.

- 23. The System Initialization page appears. An administrator must fill out the page. Enter the following information:
  - User Name (Note: Cannot be changed on the Administrator account)
  - Password
  - Confirm Password
  - First Name
  - Last Name
  - E-mail
- 24. Click **Submit** after entering the Administrator account information.

Battery Xplorer Enterprise ×		- 0 ×
← → C C localhost/BEEnterpriseWeb/Account/SystemInitialization.aspx		@,☆ =
<b>System I</b> Battery Xplorer Enterprise is in initialization mode, please p system. Please note this process must be done by the Admi	<b>NITIALIZATION</b> provide the requested information to start using the nistrator. The following user is going to be registered	
with all privileges.		
Administrator Account.		
User Name:	First Name:	
Administrator	First	
Password	Last Name	
••••••	Last	
Confirm Password:	E-Mail:	
•••••	user@domain.com	
	Submit	

#### Figure 55 – Battery Xplorer Enterprise System Initialization Window

25. A login page appears for you to enter your username and password.

26. A confirmation notification message will be sent to the email provided for your Administrative Account confirming that the Battery Xplorer has been setup successfully. Click **Continue**.

🗅 Battery Xplorer Enterprise 🗙 💽	- @ ×
← → C C C locahost/BEEnterpriseWeb/Account/SystemInitialization.aspx	@, ☆ =
<b>System Initialization</b> Battery Xplorer Enterprise is in initialization mode, please provide the requested information to sta system. Please note this process must be done by the Administrator. The following user is going to with all privileges	rt using the be registered
inter an anti-geo.	
Administrator Account:	
User Name: First Name:	
Administrator First	
Password: Last Name:	
Last	
Confirm Password: E-Mail:	
user@domain.com	
A Notification E-Mail is being sent to the E-Mail Provided for your	Continue
Administrator Account. If you don't receive the E-Mail, please check your Spam Folder.	

### Figure 56 – Battery Xplorer Enterprise System Initialization Window with Notification Message

27. Enter your newly created "Administrator" Username and password and click Log In.

BATTERY XPLORER ENTERPRISE LOGIN Please enter your username and password.	
Account Information	
User Name: Administrator ×	
Password:	
and the second s	
Log In	

Figure 57 – Battery Xplorer Enterprise Login Window

The Battery Explorer Enterprise main window appears. Congratulations! Your Battery Explorer Enterprise installation and configuration is complete.

# Setting Up the Battery Xplorer Enterprise System for the First Time



Figure 58 – Battery Xplorer Enterprise Main Window

For more information on how to use the Battery Xplorer Web application refer the the context sensitive help text link in the top right corner of the page.

## **5.1. Features Activation Manager**

The Battery Xplorer Enterprise monitoring system features require activation keys that allow certain features to be activated within the software application. In order to receive activation keys to turn on your Battery Xplorer Enterprise features, you must register by contacting Vertiv Customer Service. Locate your Purchase Order number and Installation Key in the Features Activation Manager page and contact Vertiv Customer Service (954) 623-6660 or email <u>alber-service@vertivco.com</u>.

The following Battery Xplorer Enterprise features are available for activation:

- 30 Day Demo
- 1 to 10 Strings
- 1 to 25 Strings
- 1 to 100 Strings
- 100 Strings and Higher
- Advanced Reporting
- Portable Device Support

To activate Battery Xplorer Enterprise features:

- 1. On the Battery Xplorer home page, click the **Administration** Icon. The Administration Access page appears.
- 2. Scroll down to the bottom of the list and click **Features Activation Manager**, the Features Activation Manager page appears.
- 3. Contact Vertiv Customer Service (954) 623-6660 or email to <u>service@vertivco.com</u> and provide your Purchase Order number and Installation key (shown in the window).
- 4. Type your 16 digit Activation Key number and click **Apply Activation Key**. A message appears informing you the activation was successful.
- 5. Verify that your purchased feature has a status of Active.

**Note**: If the activation of any of your purchased features are not successfully active, contact Vertiv Customer Service.

# 6. Upgrading Battery Xplorer Enterprise

To download the latest Battery Explorer Enterprise software, follow these steps:

- 1. On your browser go to <a href="http://www.vertivco.com/all-alber-product/software/software-downloads/">http://www.vertivco.com/all-alber-product/software/software-downloads/</a>
- 2. Click on Select Battery Explorer Enterprise software upgrade. Download the setup.exe file to your hard drive.
- 3. Double click the **setup.exe** file. The Vertiv Battery Xplorer Enteprise InstallShield Wizard window appears.
- 4. Click **Yes**. The Vertiv Battery Xplorer Enterprise InstallShield Wizard prepares to install the software.



Figure 59 – Battery Xplorer Enterprise InstallShield Wizard



### Figure 60 – Battery Xplorer Enterprise InstallShield Wizard Preparation

#### 5. Click Next.



#### Figure 61 – Battery Xplorer Enterprise InstallShield Wizard

The Vertiv Battery Xplorer Enteprise – InstallShield Wizard installs the software.

📸 Alber Bat	tery Xplorer Enterprise - I	nstallShield Wiza		
Installing The prog	Alber Battery Xplorer Entor ram features you selected are	e <b>rprise</b> being installed.		
12	Please wait while the InstallS Enterprise, This may take sev	hield Wizard installs veral minutes.	Alber Battery Xplorer	
	Status:			
	Validating install			
InstallShield -				
		< Back	Next >	Cancel



An Information window displays that a reboot will be required at the end of the upgrade. Click
 OK to proceed or Cancel to stop the upgrade and close any windows that you have open.

🔂 Alber B	attery Xplorer Enterprise Installer Information	×
1	The setup must update files or services that cannot be updated while the system is running. If you choose to continue, a reboot will be required to complete the setup.	
	OK Cancel	

Figure 63 – Battery Xplorer Enterprise Installation in Progress

7. When the Battery Explorer Enterprise Upgrade is complete, click Finish.



Figure 64 – Battery Xplorer Enterprise Upgrade Complete

The Vertiv Battery Xplorer Enterprise – software upgrade is complete.

8. It is required to restart your system for the configuration changes to be made to the Battery Explorer Enterprise Upgrade to take effect and complete, click **Yes**.



Figure 65 – Restart your Battery Xplorer Enterprise

9. Once your PC reboots Click **Start**, **All Programs**, **Alber**, **Battery Explorer Enterprise** then **Web Application Manager**. The Web Application Manager window appears.

iger <mark>_ 🛛 X</mark>
eb Application
Exit
v. 1.0.1.24

Figure 66 – Web Application Manager

10. Click Start. Previous Connection Data Found window appears. Click Yes.



Figure 67 – Web Application Manager

11. Click **OK** to complete the upgrade.

ОК	×
Initialization complete.	
ОК	

Figure 68 – Inialization Complete

12. Click **Exit** to complete the upgrade.



Figure 69 – Web Application Manger Complete

Congratulations! Your Battery Explorer Enterprise upgrade is complete.

13. Click **Control Panel, System and Security, Administrative Tools, Services.** Make sure the service for the BX Enterprise Watchdog is started.

# 7. Battery Xplorer Enterprise System Migration

Use the following steps to transfer Battery Xplorer Enterprise software from one system to another. This system migration procedure will prevent two Battery Explorer Enterprise systems from polling hardware at the same time.

1. Backup the two "BEEnterprise" and "BEEnterpriseHistory" databases using the Microsoft SQL Server Management Studio software.



Figure 70 – Microsoft SQL Server Management Studio

### **Battery Xplorer Enterprise System Migration**

1 Microsoft SQL Server Management Studio					<b>F</b> X
File Edit View Debug Tools Window Community Help					
🕙 New Query 🗅 🕒 🗃 🖂 🖓					
Object Explorer + A X					
Connect - 👽 👽 = 🝸 👩 🐼					
NDLISAL BD0032057\REENT_SOL_(SOL_Server 1					
Databases	Back Up Database - BEEnterp	nse			
🗉 🧰 System Databases	Select a page	⊴ Script 🔻 🚺 Help			
🗉 📋 BEEnterprise	P Options				
BEEnterpriseHistory		Source			
BMUMDaveTest		Database:	BEEnterprise		
Gerver Objects		Recovery model:	SIMPLE		
🗉 🦢 Replication		Backup type:	Full		
🗄 🚞 Management		Copy-only Backup			
		Backup component:			
		Database			
		Eles and filemenner			
		Dealure ant			
		Dackup set	sterrise Eul Database Raekun		
		Name. Dec	nieipiisen di Database Datikup		
		Description			
		Backup set will expire:	teril.		
	Connection	After:	days		
	Server:	© <u>D</u> n: 9/1	1/2014		
	NPUSALBD0032057\BEENT_SQ	Destination	@ T	-	
	Connection: EMBSN\msalokar	Back up to: Ujsk	U Tage		
	View connection properties	L: Vrogram Fres Microsoft SUL Servery	Add		
	- YEW COLLECTOR PROPERTY				
	Progress		Hemove		
	Ready		Contents		
	$\odot$	•			
			OK Cancel		
e b					
Ready					
👩 🥝 🎇 💽 🖳 🖉				🚨 🐫 🏲 🖳 🌖 🤧	12 PM 1/2014

Figure 71 – Backup BEEnterprise Database using Microsoft SQL Server Management Studio

2. Disable Battery Xplorer Enterprise (BXE) Service or uninstall Battery Xplorer Enterprise on the original system.

BX Enterprise Wate	hdog Properties (Local Computer)
General Log On	Recovery Dependencies
Service name:	BX Enterprise Watchdog
Display name:	BX Enterprise Watchdog
Description:	This service controls the HAL Device Drivers for the Battery Xplorer Enterprise sytem.
Path to executab "C:\Program Files	le: ; (x86)\Alber\Battery Xplorer Enterprise\Watchdog\BEEntV
Startup type:	Disabled
Help me configur	e service startup options.
Service status:	Stopped
<u>Start</u>	Stop <u>P</u> ause <u>R</u> esume
You can specify t from here.	he start parameters that apply when you start the service
Start para <u>m</u> eters:	
	OK Cancel Apply

Figure 72 – Battery Xplorer Enterprise Watchdog Service Properties

- 3. Install the Battery Xplorer Enterprise software on the new system.
- 4. Run the Web Application Manager on the new system.

🖳 Web Application	
Press "Start" to configure	Web Application
Start	Exit
	v. 2.0.1.261

Figure 73 – Web Application Manager

- 5. Delete Battery Xplorer Enterprise Databases (BEEnterprise and BEEnterpriseHistory) using the Microsoft SQL Server Management Studio created by the Web Application Manager on the new system.
- 6. Restore original Databases (BEEnterprise and BEEnterpriseHistory) using the Microsoft SQL Server Management Studio to the new system.

- 7. In Microsoft SQL Server Management Studio, do the following tasks:
  - a. Expand the server name then **Databases**, **BEEnterprise**, **Security** and **Users** folders and rename the current **BEEnterprise** user to **BEEnterprise\_OLD** user.
  - b. Expand the **Databases**, **BEEnterpriseHistory**, **Security** and **Users** folders and rename the current **BEEnterprise** user to **BEEnterprise\_OLD** user.
  - c. Expand the main **Security** folder (Do not expand the Databases folder) then expand **Logins** folders and select **BEEnterprise** user.
- Map the user to the BEEnterprise and BEEnterpriseHistory databases by right clicking and selecting Properties. Under Login Properties window, select User Mapping. Check the checkboxes to map the BEEnterprise and BEEnterpriseHistory databases and select the db\_owner checkbox role for each database.

🚦 Login Properties - BEEnterpris	se				
Select a page		▼ 🕄 Help			
🚰 General	a script				
Server Roles	Users ma	appe <u>d</u> to this login:			
Securables	Map	Database	User	Default Schema	
Status	1	BEEnterprise	BEEnterprise	db_owner	
		BEEnterpriseHistory	BEEnterprise	db_owner	
		BMDMDaveTest			
		master			
		model			
		msdb			
		tempdb			
Connection	Databas	e <u>r</u> ole membership for: BEEr	nterpriseHistory		
Server: NPUSALBD0032057\BEENT_SQ	db_a	ccessadmin ackupoperator atareader			
Connection:	db_d	atawriter dladmin			
EMRSN gomesr32046	db_d	enydatareader			
View connection properties	db_d	enydatawriter			
100	✓ db_o	wher			
Progress	ob_s	ecuniyadmin			
Ready	Paper	-			
				ОК	Cancel

Figure 74 – User Mapping BEEnterprise User

9. Delete the **Alber** (HKEY\_CURRENT\_CONFIG\Software\Alber) registry entry created by Web Application Manager using regedit (Click **Start** and type **regedit.)** 

📸 Registry Editor				
<u>File Edit View Favorites H</u> elp				
⊿ 🚛 Computer	Name	Туре	Data	
<ul> <li>HKEY_CLASSES_ROOT</li> <li>HKEY_CURRENT_USER</li> <li>HKEY_LOCAL_MACHINE</li> <li>HKEY_LORRENT_CONFIG</li> <li>Software</li> <li>Software</li> <li>Software</li> <li>Software</li> <li>Software</li> <li>System</li> </ul>	क) (Default)	REG_SZ	(value not set)	
Computer\HKEY_CURRENT_CONFIG\Software\Alber				л

Figure 75 – Deleting Alber Registry

- 10. Re-run the Web Application Manager on the new system.
- 11. Run Monitor Service Manager Program and then click the **Clear MSM Config** option, located on the **Tools** menu. Press the **Start** button to assign and start the BX Enterprise Watchdog service.

## **Battery Xplorer Enterprise System Migration**

Battery Xplorer Enterprise         Monitor Service Manager         Start         Press this button to auto-configure components and start the monitoring engine.	
Start Press this button to auto-configure components and start the monitoring engine.	
Devices	
IP Address Model S/N Connection Assigned Computer Name	
▶ 10.203.123.65 UXBM/50 PortableTestFixtureSal False	

Figure 76 – Starting the Monitor Service Manager

12. Contact a Alber Sales Representative to get an activation key to access Battery Xplorer Enterprise features.

**Battery Xplorer Enterprise System Migration** 

BATTERY XPLORER enterprise	The foot Meeter User: administrator
me  Mathematical Access  Features Activation Mathematical Activation Activation Mathematical Activation Mathematical Activation Mathematical Activation Mathematical Activation Mathematical Activation Mathematical Activation Activation Activation Activation Activation Activation Activation Activation Activation	anager Log out Tools <u>H</u> elp
Features Activation Manager	
	Installation Key
Installation Key: FF0D-2DE9-B32D-492	A4 Alber Customer Service will require your Purchase Order number and Installation Key (ahown in this window) in order to register and activate Battery Xplorer Enterprise features.
	Features Activation
Activation Key field. Click Apply Activation Key to activate all y Enter Activation Key:	eur purchased licensed features.  Apply Activation Key
·	
Feature Name	Status
Feature Name 30 Day Demo	Status Active (21 days remaining)
Feature Name	Status Active (21 days remaining)
Feature Name 30 Day Demo	Status Active (21 days remaining)

Figure 77 – Battery Explorer Enterprise Features Activation Manager

# 8. Enabling Auto-Login (Optional)

Login permissions can be optionally set up to automatically log you into the Battery Xplorer Enterprise system without entering a username and password. Either browser auto-login or active directory auto-login methods can be used to enable the auto-login feature in Battery Xplorer Enterprise.

## 8.1.Setting up a Browser for Auto-Login

Your browser can save your username and password for future logins, so you do not have to retype it each time you login to the system.

To set up the browser auto-login feature:

- Double click the Battery Xplorer Enterprise Web icon or click Start, All Programs, Alber, Alber Battery Xplorer Enterprise, then Battery Xplorer Enterprise Web to open the login page. Login to the Battery Xplorer Enterprise application by entering your username and password and click Log In.
- 2. The first time you login to the Battery Xplorer Enterprise web site, your browser prompts you to save your username and password. Click **Yes** to save your username and password, the login fields are prepopulated the next time you login to the Battery Xplorer Enterprise Login page.

**Note**: You also have the option to use Active Directory to set up your auto-login. See the next section on how to set up auto-login with Active Directory within Internet Information Services Manager (IIS).

# 8.2. Setting up Active Directory for Auto-Login within IIS

If you are logged into your PC as an Active Directory user and the same Active Directory user (or group) account has been added to the Battery Xplorer Enterprise User Management page, you may be automatically logged into the Battery Xplorer Enterprise web site.

To set up the Active Directory auto-login feature within IIS:

- 1. Click the Start button, select All Programs, Accessories, then Run. Type INETMGR and click OK.
- 2. On the left side of the pane, click the plus sign or arrow next to your machine name to expand the sites below.
- 3. Click the plus sign or arrow next to "Sites".
- 4. Click the plus sign or arrow next to "Default Web Site".
- 5. Click on BEEnterpiseWeb.
- 6. Under the **IIS** area in the center of the pane, double-click **Authentication**.
- 7. Select Forms Authentication and right-click and select Disabled.
- 8. Select Windows Authentication and right-click and select Enabled.

### **Enabling Auto-Login (Optional)**



Figure 78 – IIS Manager Set up

9. Click the X in the top right corner to close the IIS window.

### Setting up Active Directory for auto-login within Battery Xplorer Enterprise

To set up the Active Directory auto-login feature within Battery Xplorer Enterprise:

- Double click the Battery Xplorer Enterprise Web icon or click Start, All Programs, Alber, Alber Battery Xplorer Enterprise, Battery Xplorer Enterprise Web to open the login page. Login to the Battery Xplorer Enterprise application by entering your username and password and click Log In.
- 2. On the main Battery Xplorer page, click **Administration**.
- 3. On the Administration Access page, click System Manager.
- 4. In the System Configuration area enter your Active Directory Server name.
- Click the checkbox to select and enable Active Directory Auto Login.
   Note: You must have IIS Windows Authentication enabled and Forms Authentication disabled.
## **Enabling Auto-Login (Optional)**

BATTERY XPLORER enterprise	User: Administrator
Home  Administration Access  System Manager	Log out <u>T</u> ools <u>H</u> elp
System Manager	
System Configuration	
Battery Xplorer Enterprise provides tools for configuring network and security system settings. Active Directory Server: ACTDIRDOMAIN Active Directory Auto Login (You must manually set IIS Windows Authentication to Enabled and Forms Authentication to Disa website. The Active Directory Server name above cannot be left blank.)	bled on the BEEnterprise Folder of the
Force HTTPS (SSL Certificate required or add a security exception in your browser when prompted.)	
The Notification Event Duration Time is the amount of time an alarm needs to be in effect before a	notification message is sent.
Notification Event Duration Time in Minutes (1-99): 1 Activated	Save Exit

Figure 79 – System Manager

- 6. Click Save then Exit.
- 7. On the main Battery Xplorer page, click **Administration Access** then **User Manager**. The User Management page appears.

## Enabling Auto-Login (Optional)

BATTERY XPLORER enterprise			Tust Your Bi User: administra	e atteries ator
me ► Administration Access ► User Management		_	<u>L</u> og out <u>T</u> ools <u>H</u>	<u>l</u> elp
loor Monogement				
Filter by		Edit I	leer	
		Lon C		-
User Role: (All Roles)	Username:		First Name:	
	Administrator		Michael	
ser List	Password:		Last Name:	
lichael Salokar (Administrator)			Salokar	
	Reset	Change		
1 N 1 items in 1 pages	Confirm Password:		E-Mail:	
			michael.salokar@emerson.com	
	Role:		Status:	
	Administrator	~	Active	~
	Active Directory			
	First click the NFW button then see	arch for	New Save Delete	e
	Active Directory Users based on Us	ername.		
	First Name, Last Name, and/or Ema			
	above; or search for Groups based			
	Username entered above.			
	Search Users Search	Groups		

Figure 80 – User Manager

Use this page to search for existing Active Directory users or groups for logging into the Battery Xplorer Enterprise Web application. Do the following steps:

- a. In the Edit User area, click **New**, and enter an existing or partial Battery Xplorer Enterprise Web username.
- b. To find Active Directory Users, click **Search Users**. The users are based on username, first name, last name, and/or email addresses.
- c. To search for groups of users, click **Search Groups** that are based on username entered.
- d. Select a user or group from the list of results and click **Save**.

You can now auto-login to the battery Xplorer Enterprise Web site the next time you login. The browser displays a login prompt for the Active Directory Username and Password on the first login attempt. In the browser a prompt appears requesting you to save your credentials. Depending on your browser, the following appears the next time you go to the Login page:

- In Firefox and Chrome, the browser popup login prompt is already pre-filled with the Username and Password (as all asterisks or dots).
- In Internet Explorer, you still have to re-enter the password every time by default.

Once you get through to the web site, if Auto Login checkbox is checked on the System Management page, you will bypass the Login page. Otherwise, you can fill out the Login prompt as usual.