Installation Guide for EAServer Unix\Linux

Appeon® for PowerBuilder® 2016 Unix\Linux FOR UNIX\LINUX

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1 About This Book

1.1 Audience

This book is for a PowerBuilder programmer to set up the Web and/or mobile development and runtime environment by installing the different components of Appeon for PowerBuilder.

1.2 How to use this book

There are seven chapters in this book.

Chapter 1: About This Book

A general description of this book.

Chapter 2: Introduction

An overview of Appeon for PowerBuilder 2016 for EAServer Unix\Linux and its system architecture.

Chapter 3: Installation Requirements

The system requirements for installing Appeon for PowerBuilder 2016 for EAServer Unix \Linux.

Chapter 4: Installing Appeon for PowerBuilder 2016

Instructions for installing and upgrading Appeon Server, Appeon Developer, and Appeon Server Web Component.

Chapter 5: Configuring Appeon Server Cluster

Instructions for configuring an Appeon Server cluster.

Chapter 6: Post-Installation Configuration Tasks

Instructions on configurations required for Appeon system architecture that affect the running of Web applications.

Chapter 7: Uninstalling Appeon for PowerBuilder 2016

Instructions for uninstalling Appeon for PowerBuilder 2016 for EAServer Unix\Linux.

1.3 Related documents

Appeon provides the following user documents to assist you in understanding Appeon for PowerBuilder and its capabilities:

• Introduction to Appeon:

Gives general introduction to Appeon for PowerBuilder and its editions.

• Getting Started (for Appeon Mobile):

Guides you though installing PowerBuilder and Appeon for PowerBuilder, and developing and deploying a mobile application.

· New Features Guide:

Introduces new features and changes in Appeon for PowerBuilder.

• Appeon Mobile Tutorials:

Gives instructions on deploying, running, and debugging the mobile application, distributing native mobile apps, and configuring the Appeon Server cluster.

• Appeon Mobile (Offline) Tutorials:

Gives instructions on setting up the Appeon Mobile (Offline) environment, and configuring, deploying, running, updating, and debugging the offline application.

• Appeon Installation Guide:

Provides instructions on how to install Appeon for PowerBuilder successfully.

• Mobile UI Design & Development Guide:

Introduces general guidelines on designing and developing the mobile app and UI.

• Migration Guidelines for Appeon Web:

A process-oriented guide that illustrates the complete diagram of the Appeon Web migration procedure and various topics related to steps in the procedure, and includes a tutorial that walks you through the entire process of deploying a small PowerBuilder application to the Web.

• Supported PB Features:

Provides a detailed list of supported PowerBuilder features which can be converted to the Web/Mobile with Appeon as well as which features are unsupported.

• Appeon Developer User Guide:

Provides instructions on how to use the Appeon Developer toolbar in Appeon for PowerBuilder.

• Workarounds & API Guide:

Provides resolutions for unsupported features and various APIs to facilitate you to implement the features (including Web and mobile) that are not easy or impossible to implement in the PowerBuilder IDE.

• Appeon Workspace User Guide:

Gives a general introduction on Appeon Workspace and provides detailed instructions on how to use it.

• Appeon Server Configuration Guide:

Provides instructions on how to configure Appeon Server Monitor, establish connections between Appeon Servers and database servers, and configure AEM for maintaining Appeon Server and the deployed applications.

• Web Server Configuration Guide:

Describes configuration instructions for different types of Web servers to work with the Appeon Server.

• Troubleshooting Guide:

Provides information on troubleshooting issues; covering topics, such as product installation, application deployment, AEM, and Appeon application runtime issues.

• Appeon Performance Tuning Guide:

Provides instructions on how to modify a PowerBuilder application to achieve better performance from its corresponding Web/mobile application.

• Testing Appeon Web Applications with QTP:

Provides instructions on how to test Appeon Web applications with QTP.

1.4 If you need help

If you have any questions about this product or need assistance during the installation process, access the Technical Support Web site at http://www.appeon.com/support.

2 Introduction

2.1 Overview

Appeon for PowerBuilder is the first and revolutionary solution that leverages the PowerBuilder IDE for building an application and deploying it as a Windows client/server app, a Windows browser-based Web app, and an iOS/Android native mobile app. PowerBuilder is a very mature and productive 4GL development environment, running on the Windows platform, and offering distinguished features such as MDI windows, DataWindows, menus, and toolbars. All of these powerful features will be available in the deployed application.

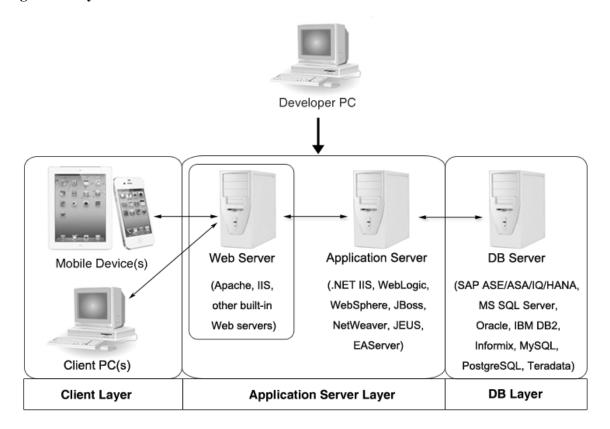
From the native source code of PowerBuilder applications, Appeon for PowerBuilder can generate n-tier applications that can run on the Web or mobile environment. The application that run on the Web environment can automatically and precisely replicate the Client/Server user interface with HTML running in standard Windows Web browsers, while the application that run on the mobile environment can automatically take the typical mobile user interface for the iOS and Android OS. The application business logic including DataWindows, Embedded SQL and dynamic SQLs is deployed to a Java-based or .NET-based back-end. These applications offer the rich user experience of the original PowerBuilder applications and deliver the superior Quality Of Service (QOS) of the n-tier architecture and J2EE platform, as well as greater availability, scalability, security and reliability.

Appeon for PowerBuilder allows the entire application conversion process to be executed within the PowerBuilder IDE. It does not require the developer to write a single line of code. Only standard PowerBuilder programming skills are required.

2.2 System architecture

Appeon for PowerBuilder works with standard n-tier architecture. Each tier serves a specific purpose in the architecture, though it may not necessarily reside in the same physical machine. For example, the Web server, application server and database server can reside in one machine or in different machines. A single tier may also be spread across multiple physical machines. For example, the application server can consist of a cluster of Appeon Server computers to provide load balancing and failover.

Figure 2.1: System architecture



Appeon applications deploy to the standard n-tier architecture - the client tier, middle tier (application server), and data tier (database) are logically separated. Each tier should have appropriate Appeon components and/or third-party software installed according to its role within the architecture. The following table briefly lists the tiers, roles, their purposes and the required Appeon/third-party software.

Table 2.1: Tiers in the Appeon architecture

Tier	Role	Purpose	Appeon Componer	Third-party Software
Client tier	Mobile Device	Runs the Appeon native mobile applications.	Appeon Workspace (Optional)	None
	Client PC	Runs the Appeon Web applications in Web browsers.	Appeon Xcelerator plug-in	Microsoft Internet Explorer, Microsoft Edge, Mozilla Firefox, Google Chrome, or Opera
Developer PC	Developer PC	Deploys your PowerBuilder application to the server.	Appeon Developer	PowerBuilder
Middle tier	Web Server	Responds incoming requests from the client tier, and dispatches requests to the application server.	Server Web	EAServer HTTP Server or any EAServer-compatible tWeb server

Tier	Role	Purpose	Appeon Componer	Third-party Software
		Hosts the presentation layer of the deployed Web applications.		
	Application Server	nHosts the DataWindows of the Appeon deployed applications, and provides the necessary run-time services to the deployed applications, such as DataWindow retrieval and update, Embedded SQLs, dynamic SQLs, security authentication etc. Appeon application middle-tier can invoke Java components, external DLL functions, and C ++ components. Furthermore, it supports Web Services for the most flexibility integrating with J2EE and .NET.	Appeon Server	EAServer
Data tier	Database Server	Hosts the application database.	None	JDBC-compliant RDBMS supported by Appeon. Please see <u>Database server</u> requirements for more information.

• Client Tier

Mobile device: The mobile application client layer is implemented using universal C++ libraries and JavaScript libraries. The C++ libraries render the mobile-style UI and provide interface for calling the device native features, information and hardware (camera, GPS, etc.), and support accessing the client/offline database and running the offline application. The JavaScript libraries support the PowerScript or UI logic coded in the Window object, user object (including NVOs), menu object and any other visual objects. These client libraries are automatically included in Appeon Workspace or the packaged mobile app.

Client PC: The Web application client layer consists of two plug-ins and some C++/ JavaScript libraries which are originally built into Appeon Server Web Component and then automatically downloaded to the client when the application is run for the first time. The two plug-ins manage the download and caching of the Web application and also act as the bridge to interact between the C++/JS libraries and the Web page. The C++/JS libraries render the PowerBuilder-style Web graphical user interface in the Web browsers.

• Middle Tier

The middle tier, which hosts the business logic, is implemented with J2EE or .NET components. These components execute the DataWindows, Embedded SQLs, and dynamic SQLs of the deployed application. The middle tier deploys to the Java or .NET compliant

Appeon Server, leveraging dozens of many-years of investments in DataWindows and other business logic.

Data Tier

The database stores the raw data for the application and stored procedures, if any. The existing database from the PowerBuilder application can be simply re-used without modification so long as it is an Appeon-certified database.

2.3 Appeon editions

Appeon for PowerBuilder 2016 provides the following editions for the Unix/Linux platform.

Table 2.2: Appeon editions

Edition	Platform	Component	Description
Enterprise Edition	IBM AIX, Sun Solaris, HP Unix, RedHat Linux	 Appeon Server Appeon Server Web Component SAP EAServer Appeon Workspace (for Appeon Mobile only) 	 Appeon Developer and Appeon Help are not provided. The Appeon Server clustering service is provided in Enterprise Edition only.
Workgroup Edition	IBM AIX, Sun Solaris, HP Unix, RedHat Linux	 Appeon Server Appeon Server Web Component SAP EAServer Appeon Workspace (for Appeon Mobile only) 	Appeon Developer and Appeon Help are not provided.

2.4 Appeon components

2.4.1 Appeon Developer

Appeon Developer is a plug-in to the PowerBuilder IDE installed to the developer's PC. It provides a set of tools that enable the mobile and Web application generation, maintenance, and upgrades within the PowerBuilder IDE. These tools are accessed via a toolbar in the PowerBuilder IDE, which automatically loads each time PowerBuilder is started.

2.4.2 Appeon Server

Appeon Server is a set of server components that is deployed to the application server. It provides the Appeon applications with necessary run-time services such as data connectivity, DataWindow support, transaction management, and security.

Appeon Server also includes Appeon Enterprise Manager (AEM) and Appeon Server Web Component.

AEM is the management console for Appeon Server and the deployed applications. When you install Appeon Server, AEM is automatically installed.

During the Appeon Server installation, the Appeon Server Web Component is automatically installed to the EAServer HTTP Server, therefore, if you are using one EAServer as both the Web server and the application server, you will NOT need to run the Appeon Server Web Component installation.

2.4.3 Appeon Server Web Component

Appeon Server Web Component resides in the Web server. It consists of the Web server redirector plug-in (that dispatches the user requests to the Appeon Server) and a set of runtime libraries for the Web application (that supports the PowerBuilder-style UI in the Web browser).

If you use a third-party Web server (such as Apache or IIS) and/or physically separate the Web server and the Appeon Server, for example, for load balancing purpose, you will need to install Appeon Server Web Component to the Web server and configure the Web server with the redirector plug-in. For detailed instructions on configuring the Web server, refer to Web Server Configuration Guide.

2.4.4 Appeon Workspace (for Appeon Mobile only)

Appeon Workspace is installed on the mobile device to help simplify the distribution and installation of the native mobile app. It consists of a set of mobile client libraries and a graphical user interface. The mobile client libraries generate the mobile-style UI, support the PowerScript and UI logic, provide interfaces for calling the mobile SDK, and support accessing the client/offline database and running the offline mobile application. The graphical user interface allows end users to install and run the mobile application from Appeon Server conveniently, so developers do not need to register their mobile applications in the online application store, and the end users do not need to install them from there.

Appean Workspace is distributed as a native mobile app thru the online app stores (such as Apple App Store, Google Play) or over-the-air, and it is also automatically included when you package and compile the Appean mobile application as the iOS application archive (IPA) file or Android application package (APK) file.

2.4.5 Appeon Help

Appeon Help provides easy access to all user documents. It saves time and conveniently places the help information, such as, the Appeon supported features, at your fingertips.

Appeon Help is a Microsoft compiled HTML help (.chm) which can be installed and viewed on the Windows OS only. To view the Appeon documentation on all OS, you can visit the online web help at the Appeon web site.

3 Installation Requirements

3.1 Client requirements

3.1.1 Software requirements

Requirements for the mobile device:

Apple iOS 7.1.2, 8, 8.1, or 9
 iOS devices: iPad 2/3/4/Mini/Air, iPhone 4/4S/5/5C/5S/6/6 Plus, iPod touch 4/5, iPad Pro 12.9-inch.

• Google Android 4.x, 5.0, or 6.0

Android devices that have been certified by Appeon include Samsung Galaxy Tab S2, Samsung Galaxy Note 8.0 GT-N5100, Samsung Galaxy Note 10.1 GT-N8000, Google Nexus 6P, Google Nexus 7, LG Nexus 4 E960 (smartphone), Samsung Galaxy Tab 3 10.1 GT-P5210, Samsung Google Nexus 10, ASUS ZenPad S8.0, and ASUS MeMo Pad FHD 10 ME 302C.

Requirements for the Web client PC:

- Microsoft Internet Explorer (8.0 thru 11), Microsoft Edge (27 thru 38), Mozilla Firefox (29 thru 47), Google Chrome (35 thru 53), or Opera (30 thru 39)
- Windows Vista SP2, Windows 7, Windows 8.1, or Windows 10
 IE can also support Microsoft Windows 2000 SP4, & Windows Vista SP2, though the other browsers may not.
- (Optional) Adobe Acrobat Reader 6.0 or above (for viewing printed PDF DataWindows or reports)

3.1.2 Hardware requirements

Requirements for the Web client PC:

- Intel processor(s) running at 1.8 GHz or faster
- At least 2 GB Free RAM

3.2 Appeon Server requirements

3.2.1 Software requirements

- Unix OS (such as IBM AIX, Sun Solaris, or HP Unix), or Linux (such as RedHat Linux) that is supported by SAP EAServer
- SAP EAServer 6.3.1.04

Please make sure that EAServer is started by JDK 1.6 or above (not requiring Java Applets or JVM at the client browser).

3.2.2 Hardware requirements

• Processor(s)

Linux: 86 Pentium IV above, X86 AMD above

IBM AIX: IBM Power4

Solaris: UltraSparcIII, Solaris X86 Pentium

HP-Unix: HP Itanium, HP PA-Risc

• At least 2 GB Free RAM (4 GB Free RAM recommended)

• 900 MB hard drive space (for EAServer installation) plus 500 MB hard drive space (for Appeon Server installation)

3.2.3 (Optional) Third-party Web Server requirements

- Apache 1.3, 2.0, or 2.2 on Windows or Unix\Linux, or Microsoft IIS 6.0, 7.0, 7.5, 8.0, or 10
- 50 MB hard drive space (for Appeon Server Web Component installation)

To make the third-party Web server work with Appeon Server, you must have the Web server redirector plug-in installed and configured. For detailed instructions, refer to Web Server Configuration Guide.

3.3 Database Server requirements

Appeon for PowerBuilder 2016 can connect to any of the following database servers:

- SAP ASA/SQL Anywhere 8.0.2, 9.0, 10.0.1, 11.0, 12.0 or 16.0 with SAP iAnywhere or jConnect JDBC driver
- SAP ASA/SQL Anywhere WEB Edition with SAP jConnect or iAnywhere JDBC driver
- SAP Adaptive Server Enterprise (ASE) 12.5.x or 15.x with SAP jConnect or iAnywhere JDBC Driver
- SAP IQ 12.6.x, 12.7.x or 15 with jConnect JDBC driver
- SAP HANA 1.00.36 with SAP In-Memory Database JDBC driver
- IBM DB2 UDB 8.1, 8.2, 9.5 or 10 with IBM JDBC driver
- Informix 9.x, 10.x or 11.x with IBM JDBC driver
- Microsoft SQL Server 2000 SP4, 2005 SP1, 2008 or 2012 with MSFT JDBC driver or JTDS driver

- MySQL 5.5.x or 5.6.x with Connector/J driver
- Oracle 8i, 9i, 10g, 11g or 12c with Oracle JDBC Driver
- Teradata 13.00.00.27 with Teradata JDBC driver
- PostgreSQL 9.2 with PostgreSQL JDBC driver

For instructions on downloading and installing the driver files, refer to Section 4.2.4, "JDBC driver preparation" in *Appear Server Configuration Guide for J2EE*.

3.4 Offline synchronization requirements

3.4.1 Client Database requirements

Appeon for PowerBuilder 2016 supports the following client/offline databases:

• UltraLite 12.0.1

According to <u>SAP SQL Anywhere Supported Platforms</u>, UltraLite supports Android-ARM only, and does not support Android-X86. Which means, if your Android device is powered by Intel or AMD x86 processors, rather than RISC-based ARM chips, then your device will not have offline accessibility to the local UltraLite database.

• SQLite 3.x

3.4.2 Synchronization Server requirements

Appeon for PowerBuilder 2016 supports the following offline synchronization server:

• MobiLink Server (included in SQL Anywhere 12.0.1 components)

Note: MobiLink can synchronize an UltraLite database, but cannot synchronize a SQLite database. To synchronize a SQLite database, you would need to develop your own synchronization solution.

3.4.3 Server Database requirements

MobiLink Server can connect to the consolidated databases that MobiLink supports.

For detailed information, refer to **MobiLink consolidated database** in SQL Anywhere online help (http://infocenter.sybase.com/help/index.jsp?topic=/com.sybase.help.sqlanywhere.12.0.1/mlserver/ml-consdb.html).

4 Installing Appeon for PowerBuilder 2016

4.1 Overview

Appeon for PowerBuilder 2016 (on UNIX\LINUX) consists of three components: Appeon Server, Appeon Server Web Component, and Appeon Workspace. To deploy the application to Appeon Servers and Web servers running on Unix\Linux, you can use an Appeon Developer installed from an Appeon for PowerBuilder for **Windows** edition.

Table 4.1: Appeon components

Component	Description	Installed on
Appeon Developer	A plug-in to the PowerBuilder IDE installed to the developer's PC.	PowerBuilder on Windows operating system.
Appeon Server	A set of server components deployed to the application server providing runtime services for the application, such as data connectivity, DataWindows support, transaction management, and security.	EAServer on Unix\Linux operating system.
	Appeon Server also includes Appeon Enterprise Manager (AEM) and Appeon Server Web Component.	
Appeon Server Web Component	A set of Web server redirectors that dispatches the user requests to Appeon Server, and a set of runtime libraries that supports a PowerBuilder-style Web UI within standard Windows Web browsers.	Third-party Web server. For EAServer HTTP Server, this installation is unnecessary since the Web Component is included in Appeon Server.
Appeon Help	The compiled HTML help of all Appeon user documents which saves time and conveniently places the help information at your fingertips.	Windows operating system.
Appeon Workspace (for Appeon Mobile only)	A native mobile application installed on the mobile device to simplify distributing, downloading, and running the Appeon mobile applications.	Mobile Device.

4.2 Installation scenarios

4.2.1 Overview

Appeon for PowerBuilder 2016 works with n-tier architecture: different Appeon components should be installed to the computer(s) according to their roles in the network. In this section, some practical scenarios are described to demonstrate how Appeon for PowerBuilder 2016 should be installed according to network architecture.

4.2.2 Remote Appeon Server using EAServer HTTP Server

Table 4.2: Remote Appeon Server and Web server installation

Scenarios	Requirements	Appeon Components
In this example, 2 computers are used: Computer 1 serves as Developer PC.	Computer 1: Microsoft Windows 10, 8.1, 7, or Vista Microsoft Internet Explorer, Microsoft Edge, Mozilla Firefox, Google Chrome, or Opera SAP PowerBuilder SAP SQL Anywhere	Computer 1: Appeon Developer
Computer 2 serves as Web server, application server and database server.	Computer 2: Unix\Linux SAP ASA/SQL Anywhere, SAP ASE, SAP IQ, Oracle, Microsoft SQL Server, Informix, IBM DB2, Teradata, MySQL, PostgreSQL, or SAP HANA depending on application database	Computer 2: Appeon Server

4.2.3 Remote Appeon Server using a third-party Web server

Table 4.3: Remote Appeon Server and Web server installation

Scenarios	Requirements	Appeon Components
In this example, 2 computers are used: Computer 1 serves as Developer PC.	Computer 1: Microsoft Windows 10, 8.1, 7, or Vista Microsoft Internet Explorer, Microsoft Edge, Mozilla Firefox, Google Chrome, or Opera SAP PowerBuilder SAP SQL Anywhere	Computer 1: Appeon Developer
Computer 2 serves as Web server	Computer 2: Microsoft IIS or Apache	Computer 2: Appeon Server Web Component
Computer 2 serves as Web server, application server and database server.	Computer 2: Unix\Linux SAP ASA/SQL Anywhere, SAP ASE, SAP IQ, Oracle, Microsoft SQL Server, Informix, IBM DB2, Teradata, MySQL, PostgreSQL, or SAP HANA depending on application database	Computer 2: Appeon Server

4.2.4 Appeon Server Cluster

Table 4.4: Appeon Server cluster installation

Scenarios	Requirements	Appeon Components
In this example,	Computer 1:	Computer 1:
N (N>=4) computers are used: Computer 1 is used for Developer PC.	Microsoft Windows 10, 8.1, 7, or Vista Microsoft Internet Explorer, Microsoft Edge, Mozilla Firefox, Google Chrome, or Opera SAP PowerBuilder SAP SQL Anywhere	Appeon Developer
Computer 2 is	Computer 2:	Computer 2:
the database server.	SAP SQL Anywhere, SAP ASE, SAP IQ, Oracle, Microsoft SQL Server, Informix, IBM DB2, Teradata, MySQL, PostgreSQL, or SAP HANA depending on application database	None
Computer 3 is	Computer 3:	Computer 3:
the Web server.	Microsoft IIS or Apache	Appeon Server Web Component
Computers 4 to	Computers 4 to n:	Computers 4 to
n are a group of	Unix\Linux	n:
EAServers.		Appeon Server
		(After installing Appeon Server to each EAServer, configure the Appeon Servers as a cluster. Refer to Configuring Appeon Server Cluster for details)

4.3 Two installation methods

Appeon for PowerBuilder 2016 provides two installation methods: **new installation** and **upgrade installation**.

- If your computer has not installed any version of Appeon for PowerBuilder, the setup program automatically takes the new installation method.
- If your computer has Appeon 6.2 or an earlier version installed, you must uninstall the version, prepare the environment for Appeon for PowerBuilder 2016 installation, and then use the setup program to install. The setup program takes the new installation method.

• If your computer has Appeon 6.5 or a later version installed, the setup program automatically takes the upgrade installation method.

4.4 Appeon new installation

4.4.1 Appeon Server installation

4.4.1.1 Prerequisites

- Verify that PBVM 9.0.3, 10.2.1, 10.5.2, 11.2, 11.5, 12.0, 12.5, 12.5.2, or 12.6 is installed before installing Appeon Server. Make sure the libpbvm90x.so, libpbvm100x.so, libpbvm110x.so, libpbvm115x.so, or libpbvm120x.so file is in the \$JAGUAR/lib folder. If it is not available or libpbvm80x.so appears instead, upgrade by running PowerBuilder EBF, available from the SAP Software Download Center.
- Verify that the SAP Sybase license server (SYSAM) that you intend to use with the
 Appeon Server does not include the EJB (Enterprise Java Beans) option. If ASE EJB
 license is present, EAServer will start as "SAP Enterprise Application Server (ASE
 Edition)" which only supports EJB components. Other component types, including
 PowerBuilder, are not supported. PowerBuilder support is required for the Appeon Server
 to function properly. For instructions on how to check and remove the ASE EJB option,
 refer to Troubleshooting.
- Before beginning the installation process, make sure that you shut down SAP EAServer, SAP ASA/SQL Anywhere, SAP EP Management Agent service and any other programs that are running.
- If you do not have EAServer 6.3 installed on your computer and plan to install it by Appeon installation program, copy the Appeon installation program to the computer where EAServer and Appeon Server will be installed, because the network installation is not allowed.
- When you copy the Appeon setup program to the computer, make sure that the directory does not contain special characters or spaces.

4.4.1.2 Installation instructions

To install Appeon Server on the Unix\Linux platform, you will go through the same installation process as that used for the Windows platform. The only difference is, with the Unix\Linux platform, you will complete the installation process in command line mode, instead of using graphical user interfaces.

Step 1: Open the **Appeon4EAS** folder from the Appeon installation program.

Step 2: Run the **install.sh** file using the command below:

./install.sh

Note: File names and directory names are case sensitive.

Step 3: Specify the temporary folder for the installation files extracted by the **install.sh** file. Press **Enter** or input **Next** to proceed.

```
Please input the directory where you want to extract the temporary installation files.

if the directory does not exist, it will be created for you.

Please input the directory OR [Exit]>
```

Notes:

- 1. You must have Write permission to the input directory.
- 2. The hard drive must have at least 200 MB space for installing Appeon Server, and 1 GB space for installing Appeon Server and EAServer.

The welcome message is displayed, which indicates that the installation process has started. Follow the step-by-step prompts to install Appeon Server.

Step 4: Press **Enter** or input **Next** to proceed.

You can also input **n**, **N**, **next** or **Next** to indicate **Next**, **p**, **P**, **previous**, or **Previous** to indicate **Previous**, and **e**, **E**, **exit** or **Exit** to indicate **Exit**. Notice that the input is case sensitive.

Step 5: According to the license you purchase, select the Product Type.

Step 6: Enter the Product Key that is shipped with the product.

Step 7: Specify an existing EAServer where Appeon Server will be installed.

- You cannot input **1** and press **Enter** to install EAServer 6.3 now on the local machine, as the EAServer installation program was not packaged in this setup program.
- Input 2 and press **Enter** to use an existing EAServer which has been installed on the computer.

Step 8.1: If you input **2** in Step 7, the installation program will prompt you to specify the full path of an existing 6.x where Appean Server will be installed.

- Input 1 to use the directory (/opt/Sybase/EAServer6) where by default EAServer is normally installed.
- Input 2 to manually specify the directory if EAServer is installed to a directory different from the default directory, for example, /export/home/appeon/Sybase/EAServer.

The Setup program will check whether EAServer has been correctly installed to the specified directory and whether you have **Write** privileges.

Step 8.2: Specify a JDK 1.6 or above to be used during the setup progress. The setup program will check whether the JAVA_HOME variable exists and whether it points to a valid JDK 1.6 or above. If it is valid, the JDK path will be automatically displayed as below; if it is not valid, please set a valid JDK 1.6 or above location.

Step 9: Specify the logon user name and password for Appeon Enterprise Manager (AEM).

- Press **Enter** if you want to use the default user name and password **admin** for AEM, or
- Input 1 to modify the default user name and input 2 to modify the default password.

Step 10: Confirm the setup settings.

Press **Enter** to begin copying the required files or input **p** or **Previous** to modify the setup settings.

If you have selected to install EAServer, the setup program will first install EAServer to the specified location then install Appeon Server. The whole EAServer installation process may take up to twenty minutes.

During the Appeon Server installation, the Appeon Server Web Component is automatically installed to the EAServer HTTP server, the Appeon Enterprise Manager (AEM) is installed as a Web application to EAServer, and the Appeon Server Status Monitor is installed to the \$JAGUAR/appeon/bin folder. Note that the Status Monitor will become effective only after it is configured properly. For detailed instructions on using and configuring the Status Monitor, refer to Chapter 3, *Appeon Server Status Monitor* in *Appeon Server Configuration Guide for J2EE*.

Step 11: Once the installation is complete, choose whether to start Appeon Server.

To start Appeon Server immediately input **y**. To start it later input **n**. If EAServer is just installed with Appeon Server, you might want to replace the EAServer license file first before starting and using Appeon Server. In this case, you can input **n**, and then manually start Appeon Server later. Refer to <u>Starting/Stopping Appeon Server</u> for how to manually start Appeon Server using commands.

4.4.1.3 Installing EAServer license

Copy the EAServer license file and replace the one under the \$JAGUAR/licenses folder. For detailed instructions, please refer to the EAServer installation guide in the EAServer 6.3 Sybooks CD or http://sybooks.sybase.com/nav/base.do.

4.4.2 Appean Server Web Component installation (for third-party Web servers only)

If you use a third-party Web server (such as Apache or IIS) or set up an individual machine (separate from the application server) as the Web server, you will need to install the Appeon Server Web Component. If not, you do not need to run the installation of the Appeon Server Web Component separately since it is included in Appeon Server.

4.4.2.1 Prerequisites

- Install a third-party Web server that is compatible with the SAP Sybase redirector plug-in. For a list of compatible third-party Web servers, refer to (Optional) Third-party Web server requirements.
- Stop the Web server, the SAP EP Management Agent service, and any other programs before beginning the installation process.

4.4.2.1.1 Prerequisites if Web Component installed to multiple Web servers

Appeon Server Web Component can be installed to multiple Web servers. Make sure all Web servers meet the above requirements and repeat the installation steps for the Appeon Server Web Component on each Web server.

4.4.2.2 Installation instructions

There is no Setup program for installing Appeon Server Web Component on Unix\Linux. You can directly copy the Appeon Server Web Component source files to the Web root (or document root) of the Web server on Unix\Linux.

Step 1: Locate the **AppeonWebComponent.tar** file in the **AppeonWebComponent** folder on the Appeon setup program.

Step 2: Decompress the **AppeonWebComponent.tar** file into the Web root (or document root) of the Web server. For example, the document root of Apache 1.3 is \$Apache/htdocs.

4.4.2.2.1 Installing and configuring the Web server redirector plug-in

To ensure the third-party Web server works with Appen Server, install and configure the corresponding redirector plug-in for the Web server. Instructions for installing and configuring the redirector plug-in are provided in Web Server Configuration Guide.

4.5 Appeon upgrade installation

4.5.1 Overview

If you have installed Appeon 6.5 or a later version, you can upgrade to Appeon for PowerBuilder 2016, but you cannot upgrade from Appeon 6.2 or an earlier version. If you are using Appeon 6.2 or an earlier version, uninstall it and then install Appeon for PowerBuilder 2016.

Note that applications deployed with the old version and the demo applications must be redeployed with Appen for PowerBuilder 2016 after the upgrade.

4.5.2 Upgrading Appeon Server

4.5.2.1 Prerequisites

- Before beginning the upgrade process, make sure that you shut down SAP EAServer, SAP ASA/SQL Anywhere, SAP EP Management Agent service and any other programs that are running.
- If you do not have EAServer 6.3 installed on your computer and plan to install it by Appeon installation program, copy the Appeon installation program to the computer where EAServer and Appeon Server will be installed, because the network installation is not allowed.
- When you copy the Appeon installation program to the computer, make sure that the directory does not contain special characters or spaces.

4.5.2.2 Upgrade instructions

To upgrade Appeon Server on the Unix\Linux platform, you will go through the same upgrade installation process as that used for the Windows platform. The only difference is, with the Unix\Linux platform, you will complete the installation process in command line mode, instead of using graphical user interfaces.

- Step 1: Open the **Appeon4EAS** folder from the Appeon installation program.
- Step 2: Run the **upgrade.sh** file using the command below:

./upgrade.sh

Note: File names and directory names are case sensitive.

Step 3: Specify the temporary folder for the installation files extracted by the **upgrade.sh** file. Press **Enter** or input **Next** to proceed.

```
Please input the directory where you want to extract the temporary installation files.

If the directory does not exist, it will be created for you.

Please input the directory OR [Exit]>
```

Notes:

- 1. You must have Write permission to the input directory.
- 2. The hard drive must have at least 200 MB space for installing Appeon Server, and 1 GB space for installing Appeon Server and EAServer.

The welcome message is displayed, which indicates that the upgrade installation process has started. Follow the step-by-step prompts to upgrade Appeon Server.

Step 4: Press **Enter** or input **Next** to proceed.

You can also input **n**, **N**, **next** or **Next** to indicate **Next**, **p**, **P**, **previous**, or **Previous** to indicate **Previous**, and **e**, **E**, **exit** or **Exit** to indicate **Exit**. Notice that the input is case sensitive.

Step 5: According to the license you purchase, select the Product Type.

Step 6: Enter the Product Key that is shipped with the product.

```
Please input the product key or [Exit][Previous]>
```

Step 7: Input the path of Appeon Server which you want to upgrade, for example, /home/export/sybase/EAServer5 or /home/export/Sybase/EAServer63. Press **Enter**. The upgrade installation procedure will automatically check whether the path you input is valid.

Specify a JDK 1.6 or above to be used during the upgrade progress. The upgrade program will check whether the JAVA_HOME variable exists and whether it points to a valid JDK 1.6 or above. If it is valid, the JDK path will be automatically displayed as below; if it is not valid, please set a valid JDK 1.6 or above location.

```
Step 4.2. Set JDK 1.6 or above path

------

JDK path is (e.g. "/home/AppServer/sybase/EAS631/shared/jdk1.6.0_18")

Press Enter to continue [Exit][Next]>
```

Step 8: Confirm the setup settings.

Press **Enter** to begin copying the required files or input **p** or **Previous** to modify the setup settings.

Step 9: Once the upgrade installation is complete, choose whether to start Appeon Server.

Congratulations! The upgrade has been successfully completed.

Start Appeon Server

Do you want to start the Appeon Server now? [Yes No]>

To start Appeon Server immediately input **y**. To start it later input **n**. If EAServer is just installed with Appeon Server, you might want to replace the EAServer license file first before starting and using Appeon Server. In this case, you can input **n**, and then manually start Appeon Server later. Refer to <u>Starting/Stopping Appeon Server</u> for how to manually start Appeon Server using commands.

Note that the configuration files of the Appeon Server that you want to upgrade are backed up in the \${JAGUAR}/appeon_backup directory, you can check or store them on the server.

4.5.3 Upgrading Appeon Server Web Component

4.5.3.1 Prerequisites

- Stop the Web server, the SAP EP Management Agent service, and any other Windows programs before beginning the installation process.
- If Appeon Server Web Component is installed to multiple third-party Web servers, repeat the upgrade steps for the Appeon Server Web Component on each Web server.

4.5.3.2 Upgrade instructions

There is no Setup program for installing Appeon Server Web Component on Unix\Linux. You can directly copy the Appeon Server Web Component source files to the Web root (or document root) of the Web server on Unix\Linux.

Step 1: Locate the **AppeonWebComponent.tar** file in the **AppeonWebComponent** folder on the Appeon installation program.

Step 2: Decompress the **AppeonWebComponent.tar** file into the Web root (or document root) of the Web server. For example, the document root of Apache 1.3 is \$Apache/htdocs.

4.6 Starting/Stopping Appeon Server

• Starting Appeon Server:

Change to the \$JAGUAR/appeon/bin/ folder and run the **appeonserverstart.sh** file using the following command:

./appeonserverstart.sh

• Stopping Appeon Server:

Shutting down EAServer will also shut down Appeon Server. EAServer can be shut down by using EAServer Web console (after connecting to the server to be shut down), or by killing the process ID that is running the serverstart.sh or java command.

5 Configuring Appeon Server Cluster

Appeon provides its own tools and plug-ins to configure an Appeon Server cluster and implement the load balancing and failover functionalities. An Appeon Server cluster is essentially a group of EAServers, each with Appeon Server and Appeon plug-in installed.

Following are high level steps for configuring an Appeon Server cluster. For detailed instructions, please refer to Chapter 6, *Tutorial 5: Configure Appeon Server Cluster* in *Appeon Mobile Tutorials (Mobile only)*. The instructions are exactly the same for Appeon Web and Appeon Mobile.

- 1. Install **Appeon Server** to multiple EAServers.
- 2. Create **Appeon Server cluster** in AEM.
- 3. Configure the **Web server** for the Appeon Server cluster.
- 4. Install an Appeon application to the Appeon Server cluster and Web server(s).

6 Post-Installation Configuration Tasks

6.1 Overview

The previous chapters provide instructions on how to set up Appeon system architecture, including installing Appeon for PowerBuilder components, as well as configuring Appeon Server cluster. Once the Appeon system is set up and before you start deploying applications, the post-installation configuration tasks listed in the following table will help ensure that the deployed applications run as desired. Post-installation configuration tasks refer to configurations required for Appeon system architecture that affect the running of all applications but do not include configuration tasks performed in Appeon Developer and Appeon Enterprise Manager for specific applications.

Table 6.1: Post-installation tasks

Task	Description	Detailed Instructions Given in
Configuration for the Web client PC	The IE security settings and Windows login user privileges may prevent downloading the Appeon Xcelerator plug-in for the Web application.	Configuration for client machine
System language setting	Configuration required for the Web client PC, Appeon Server and database server. The operating system language settings can affect the characters that are displayed in the Web application.	System language settings
Database JDBC driver preparation	Configuration required for Appeon Server. You should copy the corresponding JDBC driver files for the database server in use to the EAServer installation folder in the machine hosting Appeon Server.	Section 4.2.4, "JDBC driver preparation" in Appeon Server Configuration Guide for J2EE
Configuration for supporting DataWindow Data Cache feature	Configuration required for database server and Web server. The DataWindow Data Cache feature can cache DataWindow data that are frequently used on the Web server to improve runtime performance, but will not work until you fulfill the configuration requirements for database server(s) and Web server(s). This feature is not available for Web servers running on Unix\Linux.	Section 5.4.8.3, "DataWindow Data Cache" in Appean Server Configuration Guide for J2EE
Configuration for supporting dynamic DataWindows	Configuration required for database server.	Section 11.5, "Dynamic DataWindow" in Supported PB

Task	Description	Detailed Instructions Given in
	Configuration at the database server is required for support of dynamic DataWindows.	Features for Appeon Web (Web only)
Configuration for fixing an ASE issue	Appeon provides several SQL files for you modifying the chain modes of stored procedures in ASE database to avoid the following error: "Select error: Stored procedure may be run only in unchained transaction mode"	Section 4.6.2, "ASE Chained mode issue" in <i>Troubleshooting</i>

6.2 Configuration for Web client PC

Running the deployed Web application on the client machine is dependent on the Appeon Xcelerator plug-in. To ensure (only for the first time) the Appeon Xcelerator plug-in can be downloaded and installed automatically when the Web application is run, the following configuration on the client machine is required.

For more information about the Appeon Xcelerator plug-in and the manual installation method, refer to Section 5.1.2, "Installing Appeon Xcelerator plug-in" in *Supported PB Features for Appeon Web (Web only)*.

6.2.1 Verifying Web browser settings

There are a few settings in the Web browser that may affect the running of the Appeon Web application, such as the JavaScript and the plug-in. By default, these settings are enabled (appropriate for running the Web application) in Edge/Chrome/Firefox/Opera except Internet Explorer. Normally you would not need to go through the following section if you use Edge/Chrome/Firefox/Opera, unless you encounter problems when running the Web application. However, if you use Internet Explorer, you are recommended to configure Internet Explorer according to the following section.

6.2.1.1 Verifying Chrome/Firefox/Opera settings

If you use Chrome/Firefox/Opera as the Web browser, you should be able to directly run the Appeon Web application in it without any problems, with the default settings of these browsers, however, if you encounter runtime problems, or if you have changed the default settings before, you are recommended to double check that the following two settings are enabled in the browser:

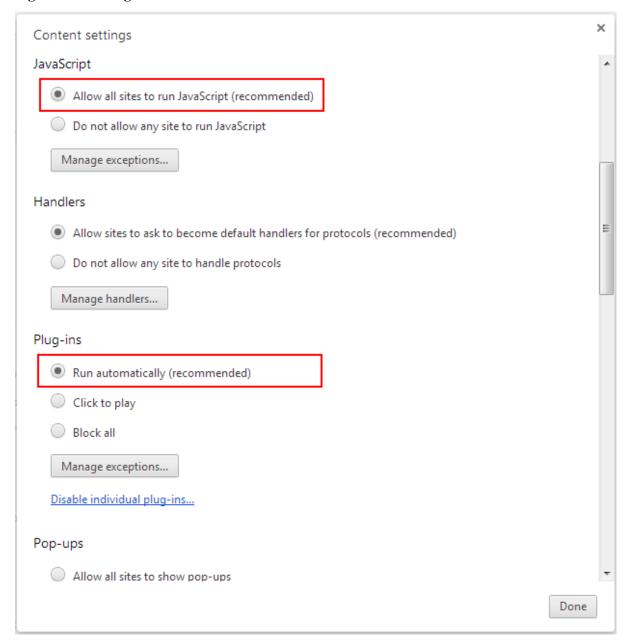
- Enable JavaScript
- Enable plug-in

For Firefox, these two settings are automatically enabled and cannot be changed manually. Therefore, you normally need not to verify the settings in Firefox.

For Chrome, go to **Settings**, then click the **Show advanced settings** link, then click the **Content Settings** button under **Privacy**, and then verify the settings are enabled. If you have

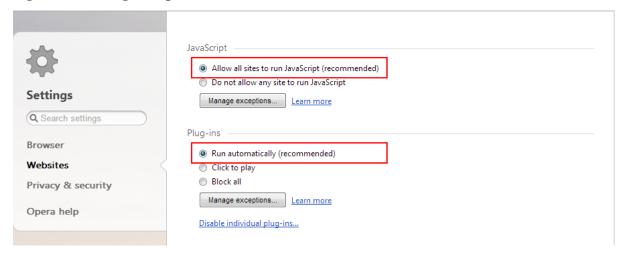
to disable these two settings for some reason, then make sure you add the URL of the Appeon Web application to the exception list.

Figure 6.1: Settings in Chrome



For Opera, go to **Settings**, then select **Websites**, and then verify the settings are enabled. If you have to disable these two settings for some reason, then make sure you add the URL of the Appean Web application to the exception list.

Figure 6.2: Settings in Opera



6.2.1.2 Configuring IE settings

If you use Internet Explorer, we recommend you add the URL of the deployed application to the **Trusted Sites** zone in Internet Explorer, because the default security settings of this zone are appropriate for downloading and installing the Appeon Xcelerator plug-in. However, if you do not want to add the URL to the Trusted Sites zone, you will need to make sure the security settings (listed in Step 4 below) are enabled for the appropriate zone. The following are detailed steps to add the URL to the Trusted Sites zone.

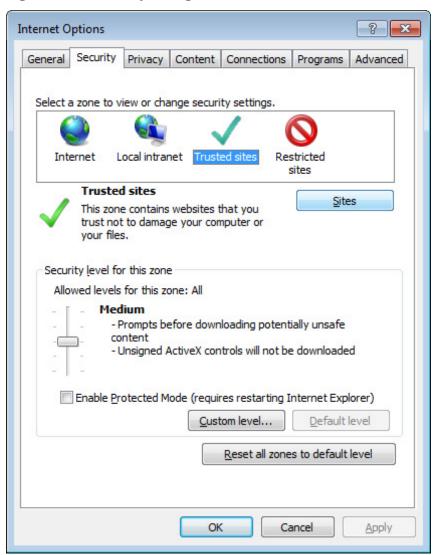
Step 1: In Internet Explorer, on the **Tools** menu, click **Internet Options**.

Step 2: In the Internet Options window, select the **Security** tab. Then select the **Trusted sites** Web content zone, and click the **Sites** button.

Note: **Enable Protected Mode** on the **Security** tab should not be selected (it is not selected by default). If there is any reason this option must be turned on, please make sure to follow the instructions in Section 4.1.3, ""Failed to get resource from Appean Server" error" in *Troubleshooting* to resolve the issue caused by this option.

For IE 11, you should also make sure both "Enable Enhanced Protected Mode" and "Enable 64-bit processes for Enhanced Protected Mode" (the latter is available in Windows 8.1 only) are unchecked in the Advanced tab.

Figure 6.3: IE security settings



Step 3: In the Trusted sites window, input the URL of the deployed application to the "Add this website to the zone" box. Uncheck the checkbox of "Require server verification (https:) for all sites in this zone". Click **Add** then click **Close** to return to the Internet Options window.

Figure 6.4: Trusted sites



Step 4: Click **OK** to save the settings and close IE.

6.2.2 Logging in as administrator or normal user

No special user privilege is required to download and install the Appeon Xcelerator plug-in, no matter you use Edge, Chrome, Firefox, Opera, or Internet Explorer, which means, you can log into the Windows OS with any user.

Note when running the Appeon Web application for the first time, the Web browser would prompt you to run the Appeon cross-browser plug-in with two options: "only this time" or "always run for this site". It is highly recommended that you select the "always run for this site" option, especially for Chrome, because the application will fail to run in Chrome if you select "only this time".

6.3 System language settings

Sometimes the operating system language settings can affect the characters displayed in the deployed application. To avoid any such display issues, verify that:

- The language of the data in the database used by the application matches the operating system language settings on the machine where Appeon Server is installed.
- The language of the data in the database used by the application matches the Windows language settings on each Client machine where the Web application will be viewed.
- The language of the data in the database used by the Appeon-deployed Web application matches Windows language settings on the machine where Appeon Developer is installed.

To set the language settings in Windows operating system:

Step 1: Open Windows **Start** Menu and select **Settings** | **Control Panel**.

- Step 2: Double-click **Regional Options**.
- Step 3: Select the appropriate language from the **Your locale** DropDownListBox.
- Step 4: Click the **Set Default** button. The Select System Local window displays.
- Step 5: Select the appropriate locale. Verify that it is the same as that selected in the **Your locale** list box in Regional Options.
- Step 6: Click **OK** to return to the Regional Options window.
- Step 7: Verify that the language selected in the **Your locale** list box and the language checked as default in **Language settings for the system** settings are the same. The language can be from different regions as long as it is the same language.
- Step 8: Click **Apply** and **OK** in the Regional Options window to accept the settings.

To set the language settings in Unix\Linux operating system:

- Step 1: Change to the etc/default folder and edit the init file.
- Step 2: Set the value of the LANG command to the appropriate language. You can use command "locale -a" to view the locale languages supported by the operating system.

7 Uninstalling Appeon for PowerBuilder 2016

7.1 Overview

To uninstall Appeon for PowerBuilder, uninstall each of its components separately. The uninstall process reverses the actions performed by the Appeon setup program. Uninstallation does not delete any files created by the user in Appeon, such as files generated while deploying the demo applications or your own application to Appeon Server. Delete these files manually from the Web root.

Do not try to reverse installation steps or uninstall Appeon by deleting files manually or changing your Registry. This can create serious problems with your system in general and new Appeon releases in particular.

7.2 Uninstalling Appeon Server

Step 1: Shut down all running programs including SAP EAServer, SAP EP Management Service, and SAP ASA/SQL Anywhere database.

Step 2: Change to \$JAGUAR/appeon/_uninstall folder and run the uninstall program using the following command:

./uninstall.sh

Step 3: Input **y** to confirm the removal of Appeon Server.

Step 4: Choose whether to uninstall EAServer 6.3. This prompt displays only if EAServer 6.3 was installed silently during Appeon Server installation.

Appeon recommends that you preserve EAServer 6.3 for later Appeon installation. Input **n** to retain EAServer 6.3 and begin uninstalling Appeon Server only. When Appeon Server is uninstalled, the Appeon Server Web Component that was installed during the Appeon Server installation is also uninstalled. However, some files created by Appeon Server after the installation may still exist in the EAServer and sybcent41 folder. You can remove these files manually.

If you selected to uninstall EAServer 6.3, EAServer will be uninstalled after the Appeon Server uninstall process is completed.

7.2.1 Uninstalling EAServer 6.3 that is installed with Appeon Server

EAServer can be silently installed with Appeon Server or installed separately before Appeon Server. If you installed EAServer by running the independent setup program (before the Appeon Server installation), uninstall it by running the EAServer uninstall program. For detailed instructions, refer to the EAServer Installation Guide. If you install EAServer silently with Appeon Server, you can do either of the following to uninstall EAServer:

- Uninstall EAServer with the Appeon Server uninstall program.
 When uninstalling Appeon Server, you can choose whether to uninstall EAServer 6.3 which is installed with Appeon Server. For detailed instructions, refer to <u>Uninstalling Appeon Server</u>.
- Uninstall EAServer separately, after Appeon Server uninstall.

If you choose not to uninstall EAServer 6.3 with Appeon Server during the Appeon Server uninstall, you can still uninstall it by running the **EASuninstall.sh** file or **SilentUninstall_Unix.sh** file in the \$JAGUAR/uninstall folder, where \$JAGUAR indicates the EAServer directory.

After EAServer is successfully uninstalled, some user created files might be left in the EAServer folder. You can manually remove these files.

7.3 Uninstalling Appeon Server Web Component (for third-party Web servers only)

To uninstall Appean Server Web Component on Unix\Linux, you directly go to the Web root (or document root) of the Web server and remove the entire **appean** folder.

7.3.1 Uninstalling Web Component if multiple Web servers are involved

Repeat the Web Component uninstall steps for each Web server.

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