Installation Guide for JEUS Windows

Appeon® for PowerBuilder® 2016 Windows FOR WINDOWS

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Appeon Limited, 1/F, Shell Industrial Building, 12 Lee Chung Street, Chai Wan District, Hong Kong.

Contents

1 About This Book	. 1
1.1 Audience	. 1
1.2 How to use this book	. 1
1.3 Related documents	1
1.4 If you need help	. 3
2 Introduction	4
2.1 Overview	. 4
2.2 System architecture	. 4
2.3 Appeon editions	
2.4 Appeon components	
2.4.1 Appeon Developer	
2.4.2 Appeon Server	
2.4.3 Appeon Server Web Component	
2.4.4 Appeon Workspace (for Appeon Mobile only)	
2.4.5 Appeon Help	
3 Installation Requirements	
3.1 Client requirements	
3.1.1 Software requirements	10
3.1.2 Hardware requirements	
3.2 Appeon Server requirements	
3.2.1 Software requirements	
3.2.2 Hardware requirements	
3.2.3 (Optional) Third-party Web Server requirements	
3.3 Appeon Developer requirements	
3.3.1 Software requirements	
3.3.2 Hardware requirements	
3.4 Database Server requirements	
3.5 Offline synchronization requirements	
3.5.1 Client Database requirements	
3.5.2 Synchronization Server requirements	
3.5.3 Server Database requirements	13
4 Installing Appeon for PowerBuilder 2016	14
4.1 Overview	
4.2 Installation scenarios	
4.2.1 Overview	
4.2.2 Developer PC	
4.2.3 Remote Appeon Server using JEUS HTTP Server	
4.2.4 Remote Appeon Server using a third-party Web server	
4.2.5 Appeon Server Cluster	
4.3 Two installation methods	
4.4 Appeon new installation	
4.4.1 Starting the installation	
4.4.2 Appeon Server installation	
4.4.3 Appeon Developer installation	
4.4.3.1 Prerequisites	
4.4.3.2 Installation instructions	

4.4.4 Appeon Server Web Component installation (for third-party Web	
servers only) 3	33
4.4.4.1 Prerequisites 3	
4.4.4.2 Installation instructions 3	
4.4.5 Appeon Help installation 3	
4.5 Appeon upgrade installation 3	
4.5.1 Before you upgrade 3	
4.5.2 Upgrading to Appeon for PowerBuilder 2016	
4.5.2.1 Upgrading Appeon Server 3	9
4.5.2.2 Upgrading Appeon Developer 4	0
4.5.2.3 Upgrading Appeon Server Web Component 4	1
4.5.3 Upgrade configuration settings manually 4	1
4.6 Starting/Stopping Appeon Server 4	2
4.6.1 Starting Appeon Server 4	2
4.6.2 Logging in to JEUS Web Manager 4	.3
4.6.3 Stopping Appeon Server 4	4
4.7 Troubleshoot Appeon installation problems 4	5
5 Configuring Appeon Server Cluster 4	6
6 Post-Installation Configuration Tasks 4	7
6.1 Overview	
6.2 Configuration for Web client PC 4	8
6.2.1 Verifying Web browser settings 4	8
6.2.1.1 Verifying Chrome/Firefox/Opera settings	8
6.2.1.2 Configuring IE settings 5	
6.2.2 Logging in as administrator or normal user	2
6.3 System language settings 5	
7 Uninstalling Appeon for PowerBuilder 2016 5	4
7.1 Overview	
7.2 Uninstalling Appeon Developer 5	54
7.3 Uninstalling Appeon Server 5	6
7.4 Uninstalling Appeon Server Web Component (for third-party Web	
servers only)	58
7.5 Uninstalling Appeon Help 6	50
ndex	33

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 JEUS Windows and its system architecture.

Chapter 3: Installation Requirements

The system requirements for installing Appeon for PowerBuilder 2016 for JEUS Windows.

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 JEUS Windows.

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 <u>http://www.appeon.com/support</u>.

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.

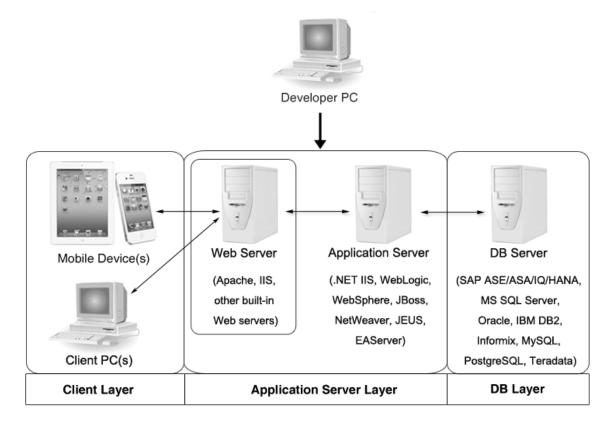
From the native source code of PowerBuilder applications, Appeon for PowerBuilder can generate n-tier applications that can run on the Web or mobile environment. The application that run on the Web environment can automatically and precisely replicate the Client/Server user interface with HTML running 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.

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.	Appeon Server Web Componen	JEUS HTTP Server or any JEUS- compatible Web tserver

Table 2.1: Tiers in the Appeon architecture

Tier	Role	Purpose	Appeon Compone	Third-party r Software
		Hosts the presentation layer of the deployed Web applications.		
	Application Server	on Hosts 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	JEUS Application Server
Data tier	Database Server	Hosts the application database.	None	JDBC-compliant RDBMS supported by Appeon. Please see <u>Database server</u> <u>requirements</u> 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 Windows platform.

Edition	Component	Description	
Enterprise	Appeon Server	1) Appeon Developer is not provided.	
Edition	Appeon Server Web Component	2) The Appeon Server clustering service is provided.	
	• Appeon Workspace (for Appeon Mobile only)	3) Product activation is required within 30 days.	
	Appeon Help		
Workgroup	Appeon Server	1) Appeon Developer is not provided.	
Edition	Appeon Server Web Component	2) Product activation is required within 30 days.	
	• Appeon Workspace (for Appeon Mobile only)		
	Appeon Help		
Developer Edition	Appeon Developer	1) The maximum number of online users is 5.	
	Appeon Server	2) Product activation is required	
	Appeon Server Web Component	within 30 days.	
	• Appeon Workspace (for Appeon Mobile only)		
	Appeon Help		
Trial Edition	Appeon Developer	1) Trial Edition has a 30-day time bomb.	
	Appeon Server	2) The Appeon Server clustering	
	Appeon Server Web Component	service is provided.	
	• Appeon Workspace (for Appeon Mobile only)	3) The maximum number of online user is unlimited.	
	Appeon Help		

Table 2.2: Appeon editions

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 JEUS HTTP Server, therefore, if you are using one JEUS 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.

Appeon 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 Appeon 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 <u>online web help</u> 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

- Windows Operating System that is supported by JEUS Application Server
- TmaxSoft® JEUS® 6.0 fix #5

Please make sure that the JEUS Application Server is started by JDK 1.6 or above.

3.2.2 Hardware requirements

- Intel processor(s) running at 1.8 GHz or faster
- At least 2 GB Free RAM (4 GB Free RAM recommended)
- 900 MB hard drive space (for JEUS Application Server 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, 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 Appeon Developer requirements

3.3.1 Software requirements

• (Recommended) Microsoft Internet Explorer (9.0 thru 11)

(Optional) Microsoft Edge (27 thru 38), Mozilla Firefox (29 thru 47), Google Chrome (35 thru 53), or Opera (30 thru 39)

IE is recommended because it works on all Windows OS, while the other browsers may not work on certain Windows OS, please check <u>Client requirements</u> to determine which OS these browsers can support.

IE 8 is not recommended because Appeon Debugger does not support IE 8, though you can run the Appeon Web app in IE 8 successfully.

- Windows Vista SP2, Windows 7, Windows 8.1, or Windows 10
- SAP PowerBuilder 9.0.3 (build 8784), 10.2.1 (build 9914), 10.5.2 (build 7826), 11.2 (build 8669), 11.5 (build 3127), 12.0 (build 3517), 12.5 (build 2511), 12.5.2 (build 5006), or 12.6 (build 4058)

If you do not have the required build, download and run the PowerBuilder EBF program from the SAP Software Download Center.

- ODBC database driver or a native database driver for the database server used by your application. Note that you cannot use a native database driver for SAP ASA/SQL Anywhere or IBM DB2 database.
- (Optional) SAP ASA/SQL Anywhere 8.0.2, 9.0, 10.0.1, 11.0, 12.0 or 16.0 (for running the PowerBuilder demos included in Appeon installation).

3.3.2 Hardware requirements

- Intel processor(s) running at 1.8 GHz or faster
- At least 2 GB Free RAM (4 GB Free RAM recommended)
- 2 GB hard drive space (for Appeon Developer installation only)

Each PowerBuilder application conversion project will require additional hard drive space based on the size of the PowerBuilder application.

3.4 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 *Appeon Server Configuration Guide for J2EE*.

3.5 Offline synchronization requirements

3.5.1 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

3.5.2 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.

3.5.3 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 (<u>http://infocenter.sybase.com/help/index.jsp?topic=/</u> 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 Windows) consists of five major components: Appeon Developer, Appeon Server, Appeon Server Web Component, Appeon Help, and Appeon Workspace.

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.	JEUS Application Server on Windows 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 JEUS 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.

 Table 4.1: Appeon components

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 Developer PC

Table 4.2: Developer PC installation	
--------------------------------------	--

Scenarios	Requirements	Appeon Components
One physical machine, Computer 1, serves as Developer PC, Web server, application server and database server	Computer 1: Microsoft Windows Server 2012 R2, 2008 R2, or 2003 Microsoft Internet Explorer, Microsoft Edge, Mozilla Firefox, Google Chrome, or Opera SAP PowerBuilder TmaxSoft JEUS Application Server SAP ASA/SQL Anywhere (Optional) SAP ASE, SAP IQ, Oracle, Microsoft SQL Server, Informix, IBM DB2, Teradata, MySQL, PostgreSQL, or SAP HANA depending on application database	Computer 1: Appeon Developer Appeon Server

4.2.3 Remote Appeon Server using JEUS HTTP Server

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: Microsoft Windows Server 2012 R2, 2008 R2, or 2003 TmaxSoft JEUS Application Server 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 Remote Appeon Server using a third-party Web server

Scenarios	Requirements	Appeon Components
In this example, 2 computers are used:	Computer 1: Microsoft Windows 10, 8.1, 7, or Vista	Computer 1: Appeon Developer
Computer 1 serves as Developer PC.	Microsoft Internet Explorer, Microsoft Edge, Mozilla Firefox, Google Chrome, or Opera SAP PowerBuilder	
Computer 2 serves as Web server	SAP SQL Anywhere 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: Microsoft Windows Server 2012 R2, 2008 R2, or 2003 TmaxSoft JEUS Application Server 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

 Table 4.4: Remote Appeon Server and Web server installation

4.2.5 Appeon Server Cluster

Table 4.5: Appeon Server cluster installation

Scenarios	Requirements	Appeon Components
In this example, N (N>=4) computers are used: Computer 1 is used for 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 is the database server.	Computer 2: SAP 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: None
Computer 3 is the Web server.	Computer 3: Microsoft IIS or Apache	Computer 3: Appeon Server Web Component

Scenarios	Requirements	Appeon Components
Computers 4 to n are a group of JEUS Application Servers.	Computers 4 to n: Microsoft Windows Server 2012 R2, 2008 R2, or 2003 TmaxSoft JEUS Application Server	Computers 4 to n: Appeon Server (After installing Appeon Server to each JEUS Application Server, configure the Appeon Servers as a cluster. Refer to <u>Configuring</u> <u>Appeon Server</u> <u>Cluster</u> 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 Starting the installation

Step 1: Double click the **Setup.exe** file in the installation package. The **Appeon for PowerBuilder 2016 Setup** program starts. The entry page has several options to guide you through the various installation tasks.

- **Install**: Click this button to start installing the product.
- View Server Settings: Click this button to ensure that the application server settings are appropriate for the Appeon Server installation.
- View Training Video: Click this button to watch the video to learn how to install the product.

- View Product Manuals: Click this button to read the user manuals for the product.
- View Readme: Click this button to read the key system requirements and installation information for the product.
- Visit Our Web Site: Click this button to visit the Appeon web site.
- **Exit**: Click this button to exit the setup program.

Note: Make sure there is enough space on the C: drive for storing temporary files for installation. Otherwise an error message will pop up, saying "1607: Unable to install InstallShield Scripting Runtime".

Step 2: Click Install.

Figure 4.1: Install Appeon for PowerBuilder



Step 3: Click **Next** on the introduction screen.

Figure 4.2: Introduction page

Appeon for PowerBuilder 2016 - Ins	tallShield Wizard	×
Appeon Limited Please read the following messages	before installing Appeon for PowerBuilder 2016.	
	It is strongly recommended that you exit all Windows programs before running this Setup program. Click Next to proceed with installation of Appeon for PowerBuilder. Click Cancel to exit this Setup.	
	WARNING: This program is protected by copyright law and international treaties. Unauthorized reproduction or distribution of this program, or any portion of it, may result in severe civil and crimin prosecution and offenders will be punished to the full extent possible under the law.	al
Appean for PowerBuilder 2016		
InstallShield	< Back Next> Cancel	

Step 4: Accept the terms in the license agreement page and click Next.

Figure 4.3: License Agreement page

Appeon for PowerBuilder 2016 - Ins	tallShield Wizard
License Agreement You must agree to the Appeon End	User License Agreement before installing or using the Appeon software.
	Press the PAGE DOWN key to see the rest of the agreement.
	APPEON END USER LICENSE AGREEMENT (EULA)
	IMPORTANT NOTICE: Read this License Agreement ("Agreement") carefully before using the enclosed Program(s). You may Use the Program(s) in accordance with the following terms and conditions. IF YOU DO NOT AGREE TO BE BOUND BY THESE TERMS, YOU MAY NOT USE THE PROGRAM(S). By opening the package containing the media, or by using the Program(s) in any way, you acknowledge that you have read, understood and agreed to the terms of this Agreement. If you do not agree with these terms, promptly return the unopened package (and all other product contents, including Documentation) to the entity from which you obtained this product within 30 days. NOTWITHSTANDING THE ABOVE, THIS LICENSE DOES NOT APPLY TO ANY THIRD PARTY SOFTWARE. USE OF ANY THIRD PARTY SOFTWARE IS GOVERNED BY THE LICENSE AGREEMENT INCLUDED IN THE MEDIA FOR SUCH SOFTWARE. THIS IS A LICENSE AND NOT A SALE.
	1. ABBREVIATIONS AND DEFINITIONS. Abbreviations and definitions appear at the end of this Agreement.
	2. LICENSE. 2.1 Appeon grants to You a nonexclusive, nontransferable, perpetual license to Use the
Appean for PowerBuilder 2016	 I accept the terms in the license agreement I do not accept the terms in the license agreement
Install Shield	< <u>B</u> ack <u>N</u> ext Cancel

Step 5: According to the license you purchase, select the product edition and the product type: **Appeon Web**, **Appeon Mobile**, or **Appeon Universal**, and then enter the product key which is shipped with the Appeon product. Click **Next**.

If you select the **Trial** or **Developer** edition, **Appeon Universal** will be automatically selected so you can experience both the Web and Mobile deployments at no additional charge.

Figure 4.4: Product edition, type and key page

Appeon for PowerBuilder 2016 - Inst	allShield Wizard	×
Product Information Please specify the product edition, p	roduct type, and product key(s).	
	Product Edition: Product Type Appeon Web Appeon Mobile Appeon Universal	
	Product Key Please specify the product key(s) for your installation. Appeon Web:	
Appeon for PowerBuilder 2016	Appeon Mobile: Appeon Universal: APFA-DEWN-EAEN-UNAP-GGEE-EEEE-FQHS	 Image: A start of the start of
InstallShield	< <u>B</u> ack <u>N</u> ext > Cano	el

Step 6: Select the component(s) you want to install and click **Next**. The Setup program will install the selected component(s) in the order listed.

For the JEUS application server, be sure to select **Appeon Server for JEUS**, as shown in the following figure.

For Developer Edition and Trial Edition, if more than one application servers such as JEUS, WebLogic, JBoss etc. are installed on the same computer, you can repeatedly run the setup program to install Appeon Server to these application servers, for example, you can first run the setup program and select **Appeon Server for JEUS** to install Appeon Server to the JEUS Application Server, you can then run the setup program again and select **Appeon Server for WebLogic** to install Appeon Server to the WebLogic Server.

Figure 4.5: Select components

Appeon for PowerBuilder 2016 - Ins	tallShield Wizard	×
Select Components Choose the components this setup	will install. Clear the components you do not want to install.	
	Choose Setup Components Appeon Server Appeon Server for .NET Appeon Server for EAServer Appeon Server for WebLogic Appeon Server for WebSphere Appeon Server for JBOss Appeon Developer Appeon Developer Appeon Server Web Component	
Appeon for PowerBuilder 2016	Description Appeon Server for JEUS is a set of J2EE, CORBA, and PowerBuilder components that provide runtime services to the deployed applications.	
InstallShield	< <u>B</u> ack <u>N</u> ext > Canc	el

Refer to the following sections to complete the installation of each component.

- For Appeon Server installation instructions, refer to <u>Appeon Server installation</u>.
- For Appeon Developer installation instructions, refer to <u>Appeon Developer installation</u>.
- For Appeon Help installation instructions, refer to <u>Appeon Help installation</u>.
- For Appeon Server Web Component installation instructions, refer to <u>Appeon Server Web</u> <u>Component installation</u>.

If you are using one JEUS Application Server as both the Appeon Server and the Web server, then you will not need to install Appeon Server Web Component, because it is included in Appeon Server and will be installed automatically during Appeon Server installation.

4.4.2 Appeon Server installation

Follow the instructions below to install Appeon Server to the JEUS Server.

Step 1: Verify that JEUS Server, as well as any other programs you may be running, is stopped.

Step 2: Launch the **Appeon for PowerBuilder 2016 Setup** program and select to install **Appeon Server for JEUS** (see <u>Starting the installation</u>). Wait until Appeon Server completes the preparation.

Step 3: Click **Browse** to specify the home directory of the JEUS Server where Appeon Server will be installed, for example, C:\TmaxSoft\JEUS6.0. Click **Next**.

Appeon Server 2016 for JEUS - In:	stallShield Wizard	
Choose Destination Location Select a folder where setup will i		
	Please specify the home directory of JEUS Server:	
	(For example,\TmaxSoft\JEUS6.0)	
	Destination Folder	
	C:\TmaxSoft\JEUS5.0	Browse
Appeon Server	Space Required on C: 105 MB	
for JEUS	Space Available on C: 9469 MB	
InstallShield	< <u>B</u> ack <u>N</u> ext >	Cancel

Figure 4.6: Specify Appeon Server installation directory

Step 4: Choose one or more JEUS engine containers from the list. The Appeon Server EAR package (appeonserver.ear) will be installed to the specified JEUS engine container(s).

Figure 4.7: Choose JEUS container

Appeon Server 2016 for JEUS - Ins	tallShield Wizard	×
Choose Engine Containers Choose the Engine Containers fo	or Setup to install Appeon Server.	
	Appeon Server will be installed to the specified Engine Containers. Please choose one or more Engine Containers from the following list. apptest2845_container1	
Appeon Server for JEUS		
InstallShield	< Back Next > Canc	el

Step 5: Specify the user name and password for Appeon Enterprise Manager (AEM).

Figure 4.8: Configure AEM login credentials

Appeon Server 2016 for JEUS - Ir	stallShield Wizard		—	
Specify the AEM login Username and Password Enter the username and password for Appeon Enterprise Manager.				
Appeon Server	The default username and pas default values. Username: Password: Confirm Password:	sword for AEM are ''admin''. Appeon recomm <mark>J</mark> admin xxxxx xxxxx	hends you to change the	
for JEUS				
InstallShield	< <u>B</u> ack	: <u>N</u> ext >	Cancel	

Step 6 : Check the summary of settings.

Click **Back** to change any unwanted settings or click **Next** to have Setup begin copying files.

Figure 4.9: Summary of settings

Appeon Server 2016 for JEUS - In	stallShield Wizard	- ×-
Start Copying Files Review settings before copying	files.	
Appeon Server for JEUS	Setup has enough information to start copying the program files. If you want to review any settings, click Back. If you are satisfied with the settings, click Next to begin cop Current Settings Appeon Server Deployment Files Destination Directory: C:\TmaxSoft\JEUS5.0\ Choosed Engine Container[s]: apptest2845_container1 AEM Login Information: AEM Username: admin AEM Password: *********	
InstallShield	< <u>B</u> ack <u>N</u> ext >	Cancel

At the click of the **Next** button, the installation program begins copying files to your computer.

Step 7: Wait until Appeon Server installation is completed.

Appeon Server has been successfully installed to the specified JEUS Application Server home directory, and the Appeon Server EAR package (appeonserver.ear) has been copied to the JEUS **deploy_home** directory.

JEUS will detect the **deploy_home** directory periodically and deploy the new packages in this folder automatically.

Step 8: Choose whether to **Start Appeon Server**. It is selected by default. To manually start Appeon Server from the Windows shortcut later, uncheck the box, then click **Finish** to end the installation of Appeon Server.

For details about starting Appeon Server, refer to Starting/Stopping Appeon Server.

Figure 4.10: Appeon Server finish page

Appeon for PowerBuilder Setup		×
	Appeon for PowerBuilder Setup Complete	
	Setup has successfully installed Appeon for PowerBuilder. Click Finish to exit the wizard.	
	Start Appeon Server	
	Note: Appeon Server is compiled with JDK 1.6. Please configure JEUS to start by JDK 1.6 or above, otherwise Appeon Server will not work properly.	
Appeon for PowerBuilder 2016		
InstallShield	< Back Finish Cancel	
THATMI DITUG		

4.4.3 Appeon Developer installation

4.4.3.1 Prerequisites

- The Developer PC meets the system requirements in <u>Appeon Developer requirements</u>. Verify that PowerBuilder 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 or updated by running the PowerBuilder Setup program. You cannot install or update the software by copying files and folders from another source.
- Verify that PowerBuilder has been upgraded to the latest available build.
- Shut down PowerBuilder, ASA/SQL Anywhere, and any other Windows programs before beginning the installation process.
- Verify in Windows Task Manager that the following processes are not running under the Process tab: **EonADTxx.exe**, **java.exe**, **jagsrv.exe**, **jagsrvagent.exe**, and **pbxxx.exe**. If these processes are running, be sure to end them.

4.4.3.2 Installation instructions

Step 1: Launch the **Appeon for PowerBuilder 2016 Setup** program and select to install **Appeon Developer** (see <u>Starting the installation</u>).

Step 2: Click **Next** to install Appeon Developer to the default location, or click **Browse** to select another location.

Appeon Developer 2016 - InstallSh	ield Wizard	×
Choose Destination Location Select a folder where setup will ins	stall files.	
	Setup will install Appeon Developer in the following folder. To install to this folder, click Next. T install to a different location, click Browse and select another folder.	ō
	-Destination Folder- C:\Program Files\Appeon\Developer2016 Browse	
Appeon Developer	Space Required on C: 1778 MB Space Available on C: 184329 MB	
InstallShield	< <u>B</u> ack <u>N</u> ext > Cance	el 📄

Step 3: If you have more than one PowerBuilder installed, you will be given a choice of which version(s) to integrate into Appeon Developer.

Figure 4.12: PowerBuilder IDE

Appeon Developer 2016 - InstallShield Wizard						
Setup Type Specify the PowerBuilder IDE that Appeon Developer will use.						
	Setup detected multiple PowerBuilder versions. Select the PowerBuilder version(s) that Appeon will use. Appeon Demo for the latest PowerBuilder version that you choose will be installed by default. PowerBuilder 11.5 IDE PowerBuilder 12.0 IDE PowerBuilder 12.6 IDE					
Appeon Developer						
InstallShield	< <u>B</u> ack <u>N</u> ext > Cance	1				

Step 4: Specify the server name, port number and server type for Appeon Server and Web server used in Appeon Developer. Note that for Appeon Server installed to JEUS Application Server, you must select **J2EE** as Server Type of Appeon Server. Click **Next**.

If you want to use an Appeon Server that has been already installed to the same machine where Appeon Developer is being installed, use the default values. If you want to use a remote Appeon Server, specify the server name and port number of the remote server. The setup program can automatically configure the **Server Profile** and **Deployment Profile** in the **Appeon Developer Configuration** window for the specified servers.

Yon can change these settings in the **Configure** tool of Appeon Developer after the installation when necessary. For detailed instructions, refer to Section 4.2.3, "Managing server profiles" in *Appeon Developer User Guide*.

Figure 4.13: Configure Appeon Developer

Appeon Developer 2016 - InstallSł	nield Wizard	×
Configure Appeon Developer Specify the following settings.		
	You have the option to specify the settings for Appeon Server and Web Server used in Appeon Developer. Click Next to proceed, and the default values will be used. -Appeon Server Server Name: localhost Port Number: 8088 Server Type: J2EE	
Appeon Developer		
InstallShield	< Back Next > Cancel	

Step 5: Select the location of SAP SQL Anywhere engine (32-bit) for running Appeon Demos.

As Appeon Demos connect with a 32-bit SAP SQL Anywhere database, therefore, you will need to select a 32-bit SAP SQL Anywhere engine. Setup lists all copies of 32-bit SAP SQL Anywhere engines detected in your machine.

Figure 4.14: SQL Anywhere for Appeon Demo

Appeon Developer 2016 - InstallShi	eld Wizard	— ×			
Specify the Location of Sybase ASA Engine (32-bit) Specify the ASA engine location to configure Appeon database service.					
	Setup detected the following Sybase ASA engines (32-bit) on this machine. You sh the correct location of ASA engine (32-bit) below to make sure Appeon Demo work	correctly.			
	Please select from the list below or type the location of ASA engine (32-bit) C:\Program Files\SQL Anywhere 11\bin32 C:\Program Files\SQL Anywhere 16\bin32 C:\Program Files\SQL Anywhere 16\bin32	B <u>r</u> owse			
Appeon Developer					
InstallShield	< <u>B</u> ack <u>N</u> ext >	Cancel			

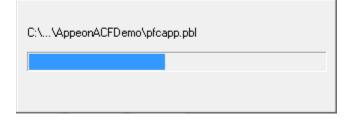
Step 6: Check the summary of settings.

Figure 4.15: Summary of settings

Appeon Developer 2016 - InstallShield Wizard		
Start Copying Files Review settings before copying files	λ.	
	Setup has enough information to start copying the program files. If you want to review or chang any settings, click Back. If you are satisfied with the settings, click Next to begin copying files. Current Settings: Destination Directory: C:\Program Files\Appeon\Developer2016 PowerBuilder Version: PB11.5 PB12.0 PB12.6 ADT Configuration: Appeon Server Name: localhost Appeon Server Port: 8088 Web Server Port: 8088 Location of SAP ASA Engine: C:\Program Files\SQL Anywhere 16\bin32	e A
Appeon Developer		
InstallShield	< <u>B</u> ack <u>N</u> ext > Cance	s

Click **Back** to change any unwanted settings or click **Next** and Setup will begin copying files.

Figure 4.16: Appeon Developer installation progress



During the installation process of Appeon Developer, the **Microsoft Visual C++ Redistributable Package** will be automatically installed, to support the running of Appeon Emulator in Appeon Developer.

Step 7: Wait until the installation is complete.

Step 8: Click **Finish** to exit.

Figure 4.17: Setup Complete

Appeon for PowerBuilder Setup		×
	Appeon for PowerBuilder Setup Complete	
	Setup has successfully installed Appeon for PowerBuilder. Click Finish to exit the wizard.	
Appeon for PowerBuilder 2016		
2016		
InstallShield	< Back Einish Cance	el

4.4.4 Appeon 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.

4.4.4.1 Prerequisites

- Install a third-party Web server that is compatible with the JEUS Application Server redirector plug-in. For a list of compatible third-party Web servers, refer to (Optional) <u>Third-party Web server requirements</u>.
- Stop the Web server and any other Windows programs before beginning the installation process.

4.4.4.1.1 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.

4.4.4.2 Installation instructions

Step 1: Launch the **Appeon for PowerBuilder 2016 Setup** program and select to install **Appeon Server Web Component** (see <u>Starting the installation</u>).

Step 2: Click **Browse** to select the Web root (or document root) for the Web server. Below lists the default Web root (or document root) of the Web server:

Apache 2.0: C:\Program Files\Apache Group\Apache2\htdocs

IIS: C:\inetpub\wwwroot

If Appeon Server Web Component is installed to the default path: "C:\Program Files\Appeon \WebComponent2016", instead of the Web root (or document root) of the Web server, you would need to manually copy it to the Web root (or document root) later in order to run the Appeon application.

Appeon Server Web Component 2016 - InstallShield Wizard				
Choose Destination Location Select the Web root directory where Setup will install files.				
	Click Browse and select the Web root directory of the Web server where Setup will install Appeon Server Web Component. Appeon Server Web Component must be installed to the Web root in order to function properly.			
	Destination Folder C:\Program Files\Appeon\WebComponent2016			
Appeon Server Web Component	Space Required on C: 172 MB Space Available on C: 180240 MB			
InstallShield	< <u>B</u> ack <u>N</u> ext > Cancel			

Figure 4.18: Appeon Server Web Component location

Step 3: Check the summary of settings.

Figure 4.19: Summary of settings

Appeon Server Web Component	2016 - InstallShield Wizard	×
Start Copying Files Review all the settings before co	pying files.	
	Setup has enough information to start copying the program files. If you want to review or char any settings, click Back. If you are satisfied with the settings, click Next to begin copying files	ige ,
	Current Settings:	
	Web Server Root Directory: C:\Program Files\Appeon\WebComponent2016\	•
Appeon Server	K	
Web Component		
InstallShield	< <u>B</u> ack <u>N</u> ext > Can	cel

Click **Back** to change any unwanted settings or click **Next** and Setup will begin copying files.

Figure 4.20: Appeon Server Web Component installation progress



Step 4: Click **Finish** to exit when the installation is complete.

Figure 4.21: Setup Complete

Appeon for PowerBuilder Setup		×
	Appeon for PowerBuilder Setup Complete	
	Setup has successfully installed Appeon for PowerBuilder. Click Finish to exit the wizard.	
Appeon for PowerBuilder		
2016		
InstallShield	< <u>B</u> ack <u>Finish</u> Cano	ei

4.4.4.2.1 Installing and configuring the Web server redirector plug-in

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

4.4.5 Appeon Help installation

Step 1: Launch the **Appeon for PowerBuilder 2016 Setup** program and select to install **Appeon Help** (see <u>Starting the installation</u>).

Step 2: Click **Next** to install Appeon Help to the default location, or click **Browse** to select another location.

Figure 4.22: Help location

Appeon Help 2016 - InstallShield	Wizard	×
Choose Destination Location Select a directory where Setup w		
	Click Browse and select the directory where Setup will install Appeon Help.	
	Destination Folder C:\Program Files\Appeon\Help2016	
Appeon Help	Space Required on C: 50 MB Space Available on C: 180316 MB	
InstallShield	< Back Next > Cancel	

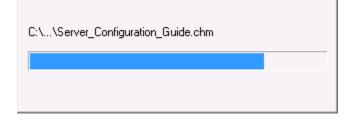
Step 3: Check the summary of settings.

Figure 4.23: Summary of settings

Appeon Help 2016 - InstallShield W	izard	×
Start Copying Files Review settings before copying file	\$.	
	Setup has enough information to start copying the program files. If you want to review or chang any settings, click Back. If you are satisfied with the settings, click Next to begin copying files. Current Settings: Installation Path: C:\Program Files\Appeon\Help2016\	ie
	4	*
Appeon Help		
InstallShield	< <u>B</u> ack <u>N</u> ext > Cance	el

Click **Back** to change any unwanted settings or click **Next** and Setup will begin copying files.

Figure 4.24: Appeon Help installation process



Step 4: Wait until the installation is complete.

Step 5: Click **Finish** to exit.

Figure 4.25: Setup complete

Appeon for PowerBuilder Setup		×
	Appeon for PowerBuilder Setup Complete	
	Setup has successfully installed Appeon for PowerBuilder. Click Finish to exit the wizard.	
Appeon for PowerBuilder 2016		
InstallShield	< <u>B</u> ack [Finish] Cano	el

4.5 Appeon upgrade installation

4.5.1 Before you upgrade

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 Appeon for PowerBuilder 2016 after the upgrade.

Before upgrading to Appeon for PowerBuilder 2016, upgrade the system environment as required in <u>Installation requirements</u>.

In addition to the system environment requirements, you should meet the installation prerequisites listed in <u>Appeon new installation</u> before upgrading each of the Appeon components.

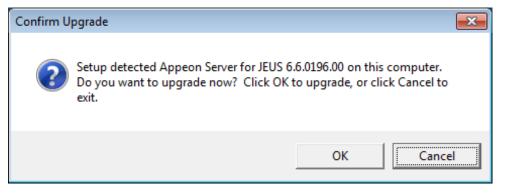
4.5.2 Upgrading to Appeon for PowerBuilder 2016

4.5.2.1 Upgrading Appeon Server

Step 1: Launch the **Appeon for PowerBuilder 2016 Setup** program and select to install **Appeon Server for JEUS** (see <u>Starting the installation</u>).

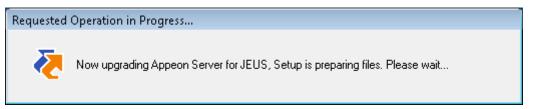
Step 2: Click the **OK** button in the **Confirm Upgrade** message box.

Figure 4.26: Confirm upgrade



When the **OK** button is clicked, a message box opens indicating that the upgrade is preparing files.

Figure 4.27: Setup is preparing files



The upgrade process uninstalls the old version of Appeon Server, backs up configurations and begins the installation of **Appeon Server** based on the backup information. This will take several minutes.

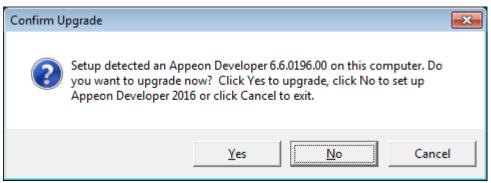
Step 3: Click the **Finish** button when the upgrade is complete.

4.5.2.2 Upgrading Appeon Developer

Step 1: Launch the **Appeon for PowerBuilder 2016 Setup** program and select to install **Appeon Developer** (see <u>Starting the installation</u>).

Step 2: Click the Yes button in the Confirm Upgrade message box.

Figure 4.28: Confirm upgrade



Once you click the Yes button, a message box opens indicating that Setup is preparing files.

Figure 4.29: Setup is preparing files



The upgrade process uninstalls the old version of Appeon Developer, backs up configurations then begins the installation of **Appeon Developer** based on the backup information. This will take several minutes.

Step 3: Click the **Finish** button when the upgrade is complete.

4.5.2.3 Upgrading Appeon Server Web Component

Step 1: Launch the **Appeon for PowerBuilder 2016 Setup** program and select to install **Appeon Server Web Component** (see <u>Starting the installation</u>).

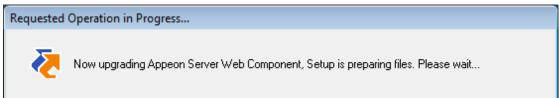
Step 2: Click the Yes button in the Confirm Upgrade message box.

Figure 4.30: Confirm upgrade

Confirm U	pgrade	×
?	Setup detected an Appeon Server Web Component 6.6.0196.00 on this computer. Do you want to upgrade now? Click Yes to upgrade, click No to set up Appeon Server Web Component 2016 or click Cancel to exit.	
	Yes Cance	1

Once you click the Yes button, a message box opens indicating that Setup is preparing files.

Figure 4.31: Setup is preparing files



The upgrade process uninstalls the old version of Appeon Server Web Component then begins the installation of **Appeon Server Web Component**. This will take several minutes.

Step 3: Click the **Finish** button when the upgrade is complete.

4.5.3 Upgrade configuration settings manually

After the product upgrade, most configurations made in the old version are retained and will continue to work in Appeon for PowerBuilder 2016. However, because the configuration settings of Appeon for PowerBuilder 2016 have been adjusted, it is recommended that you review the configuration settings in Appeon Developer and Appeon Server AEM to become familiar with the new settings and make sure the old ones are not lost or mis-configured.

After verifying all settings, Appeon applications deployed with the old version and Appeon Demos must be redeployed in Appeon for PowerBuilder 2016.

Note: If the application uses Appeon Workarounds PBL, you must use the new Appeon Workarounds PBL to replace those of the old version.

4.6 Starting/Stopping Appeon Server

4.6.1 Starting Appeon Server

Once Appeon Server has been installed and integrated into JEUS Application Server, starting JEUS Application Server will automatically start Appeon Server. To start JEUS Application Server/Appeon Server:

Step 1: Specify the user name and password for JEUS Application Server in the JEUS configuration file (%JEUS_HOME%\bin\jeus.properties.cmd). The user name and password for JEUS is created during the JEUS installation.

Step 2: Open the Windows Start menu and select: Programs | Appeon for PowerBuilder 2016 | Appeon Server for JEUS | Start JEUS.

For Windows Vista/7/2008/8/8.1 with UAC turned on, if you are running on a non-Administrator Windows account (such as an Administrators group member or a User group member), please right click the **Start JEUS** shortcut menu and then select **Run as administrator** to start JEUS Application Server/Appeon Server.

It will take several minutes to start JEUS and deploy Appeon Server EAR package (if not deployed). When the server startup process is completed, the following message will appear in the command window.

Figure 4.32: Start JEUS

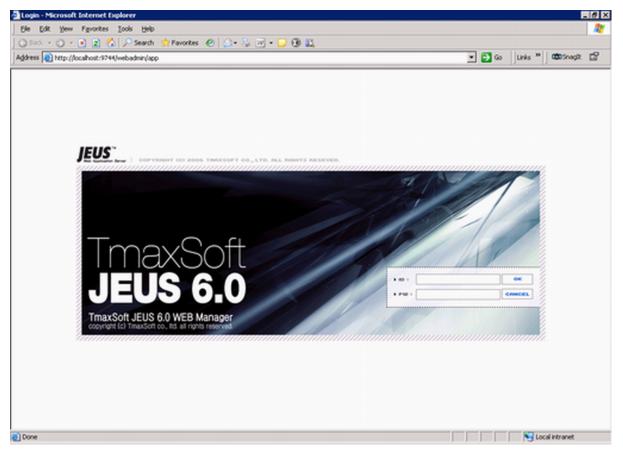
```
Select Administrator: TmaxSoft JEUS 6
                                                                              - 🗆 ×
6156
[Server@d965ea]: To close normally, connect and execute SHUTDOWN SQL
[Server@d965ea]: From command line, use [Ctrl]+[C] to abort abruptly
HSQLDB started with port:56156
Appeon Server started. Version 6.6.0068.00 on 2012-12-28
Appeon Server <6.6.0068.00 edition> started.
Edition: Unlicensed edition
Product Key: *
Days Remaining: 92
Maximum Sessions: *
Maximum Deployed Applications: *
Number of CPUs Licensed: *
Server ID: Kg==
Activation Status: NO NEED
Support Date: 2012-05-29~2013-05-29
Clustering Option: No
Number of Cores Per CPU: *
Type of CPU Licensed: Physics
Instance Number of Server: 1
                                                                                   Ē
Session check thread started...
[2012.12.29 13:33:25][2][0_563] [container1-10] [WEB-3480] context <appeonserver
_$MODULE$_appeonservlets> is started successfully
[2012.12.29 13:33:25][2][0_563] [container1-10] [JMX-0011] create MBean : JEUS:
2eeType=JeusService,jeusType=WebListener,JMXManager=0823-PC_container1,WebEngine
```

4.6.2 Logging in to JEUS Web Manager

Step 1: From the computer on which the JEUS Application Server is running, open the Windows Start menu and select: Programs | Appeon for PowerBuilder 2016 | Appeon Server for JEUS | JEUS Manager.

The **JEUS Web Manager** login page appears.

Figure	4 33.	IFUS	Weh	Manager	login	nage
riguic	4.33.	JEOD	W CD	Manager	iogin	page



Step 2: Log in to the Web Manager using the user name and password specified during the JEUS installation.

The JEUS Web Manager main page appears.

) 🖉 • 😓 🗹 • 🖵 🔞 🛍					
dress 🙋 http://localhost:9744/wei	badmin/app?service=home		•	🔁 Go	Links »	🛱 SnagIt	ß
JEUS Cluster 🛛 🛛	View Application Server	nodettestinsong(192,0.0.13 version: JEUS 6.0	:9736) user:administrator st	art time:'	Thursday, 1	≫ H	
JEUS Node Tree 🛛 🔀	Node	Node is an important component of JEUS A noc subcomponents such as containers and engines one JEUS Manager manages only one node. So,	. A node and JEUS Manager is o	losely rela	ated to ead		
	Engine Containers	JEUS Engine container includes the infrastructur providing services. Engine Containers can be reg located physically on a different JVM. This prope	arded logically as subcomponen	nts of a JE	US node bi	ut will be	
	Engine Container Resources	Databases, external data repository (such as EIS through JNDI. Resources registered as such can				6 system	
	Engine Container Services	JEUS system provides many useful services as fo Security, and Log.	llows. JNDI server, Transaction,	, JMX serv	er, Class FT	P, Schedul	ar,

Figure 4.34: JEUS Web Manager main page

4.6.3 Stopping Appeon Server

Stopping JEUS Application Server will shut down Appeon Server.

Step 1: In JEUS Web Manager, click the node name under the JEUS Node Tree pane, and then click **Control** on the right pane.

Step 2: Select the **Down** tab, select the target name, and click **OK**.

Figure 4.35: JEUS Manager - Control

Configuration	🔊 JEUS Manager - Control
Control	SECS Manager - Control
Cluster	Boot Down Exit
Distribution	
	Targets
	🗹 🖳 testlisong
	OK Cancel

Step 3: Select the **Exit** tab, select the target name, and click **OK**.

If you have any problems in using JEUS Application Server, refer to the JEUS Application Server documents at <u>http://us.tmaxsoft.com/jsp/product/detailcontents.jsp?</u> psCd=00PD04&menuCd=00PDMSJE.

4.7 Troubleshoot Appeon installation problems

Chapter 1, *Troubleshooting Appeon Install* in *Troubleshooting* provides solutions to some common problems with installing Appeon for PowerBuilder. If you could not find a solution for your problem, it could be because it is a new problem or an intricate problem that happens only under specific circumstance or environment. In both cases, it is highly recommended that you follow steps below to generate and send the log file to us for investigation.

Step 1: Go to the **Appeon** folder in the installation package, open the **Product.ini** file in the text editor, find the **RecordDllLog** parameter in this file and set the value to **1** (this will enable the logging functionality), by default the value is 0 (which disables logging).

For example:

[DllLog] RecordDllLog=1

Step 2: Run the installation package and reproduce the installation error.

Step 3: Go to ...\System32\AppeonInstallLog (or ...\SystemWOW64\AppeonInstallLog\ in 64-bit machine) and find the log files there.

Each Appeon component will have a separate log file, for example, AppeonADT2014.txt for Appeon Developer, AppeonDNS2014.txt for Appeon Server.

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 JEUS servers, 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 JEUS servers.
- 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 0.1; 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.	System language settings		
	The operating system language settings can affect the characters that are displayed in the Web application.			
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 JEUS server 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 <i>Appeon</i> <i>Server Configuration</i> <i>Guide for J2EE</i>		
Configuration for supporting dynamic DataWindows	Configuration required for database server.	Section 11.5, "Dynamic DataWindow" in <i>Supported PB</i>		

Table 6.1: Post-installation tasks

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:	Section 4.6.2, "ASE Chained mode issue" in <i>Troubleshooting</i>
	"Select error: Stored procedure may be run only in unchained transaction mode"	

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
--------	------	----------	----	--------

Content settings	×
JavaScript	*
Allow all sites to run JavaScript (recommended)	
Do not allow any site to run JavaScript	
Manage exceptions	
Handlers	
Allow sites to ask to become default handlers for protocols (recommended)	E
Do not allow any site to handle protocols	
Manage handlers	
Plug-ins	
Run automatically (recommended)	
Click to play	
O Block all	
Manage exceptions	
Disable individual plug-ins	
Pop-ups	
Allow all sites to show pop-ups	-
	Done

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 Appeon Web application to the exception list.

Figure 6.2: Settings in Opera

Settings	JavaScript Image exceptions
(contraction of the second sec	Plug-ins
Browser	Run automatically (recommended)
Websites	 Click to play
Privacy & security	Block all
Opera help	Manage exceptions Learn more
-FF	Disable individual plug-ins

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 Appeon 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

Internet Options
General Security Privacy Content Connections Programs Advanced
Select a zone to view or change security settings.
Internet Local intranet Trusted sites Restricted sites
Trusted sites
This zone contains websites that you trust not to damage your computer or your files.
Security level for this zone
Allowed levels for this zone: All
Prompts before downloading potentially unsafe content Unsigned ActiveX controls will not be downloaded
Enable Protected Mode (requires restarting Internet Explorer) Custom level Default level
Reset all zones to default level
OK Cancel Apply

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

Trusted sites		
You can add and remove websites from this zon this zon this zone will use the zone's security settings.	e. All websites in	
Add this website to the zone:		
http://goabc.com	Add	
<u>W</u> ebsites:		
	<u>R</u> emove	
Require server verification (https:) for all sites in this zone		
	⊆lose	

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

6.2.2 Logging in as administrator or normal user

No special 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 Appeon Web 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 2016, uninstall each of its components separately. The uninstall process reverses the actions performed by the Appeon setup program. Uninstall does not delete any files created by the user in Appeon, such as application files generated while deploying the demo applications or your own application to Appeon Server. Delete these files manually from the Web root (or document root) of the Web server.

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.

There are two ways to uninstall Appeon components:

- Launch the uninstall program of the Appeon component from Windows Start menu | Programs | Appeon for PowerBuilder 2016.
- Launch Add/Remove Programs from the Windows Control Panel. Select the Appeon component and click Change/Remove to begin the uninstall process.

7.2 Uninstalling Appeon Developer

Step 1: Shut down PowerBuilder and any other SAP software.

Step 2: Verify that Appeon Developer and other Windows programs have been shut down.

Open **Windows Task Manager**, switch to the **Process** tab and verify that the following processes are not running. If they are running, end them:

- EonADTxx.exe
- pbxxx.exe
- java.exe, jagsrv.exe and jagsrvagent.exe
- dbengx.exe and dbsrvx.exe

If EonADT*xx*.exe is running when attempting to uninstall Appeon Developer, the Appeon setup program will detect that the processes are running and an error message will appear.

End the processes in the **Processes** tab of **Windows Task Manager** before clicking the **OK** button on the message box. If you click **OK** before ending the process, the message box will continue to display and will not allow you to continue until the processes are ended. In this case, click **Cancel** in the message box, end the process and begin the uninstall process again.

Step 3: Select Windows Start | Control Panel; under Programs, click Uninstall a program; select Appeon Developer 2016 and click Uninstall to begin the uninstall process.

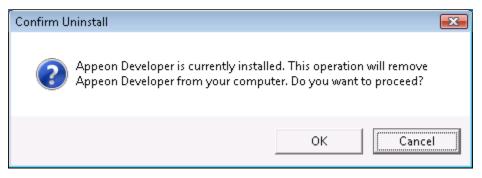
Step 4: Click Next.

Figure 7.1: Remove Appeon Developer

Appeon Developer 2016 - InstallS	ihield Wizard
Welcome Remove the program.	
	Welcome to the Appeon Developer 2016 Setup Maintenance program. This program allows you to remove all installed features.
Appeon Developer	
InstallShield	< Back Cancel

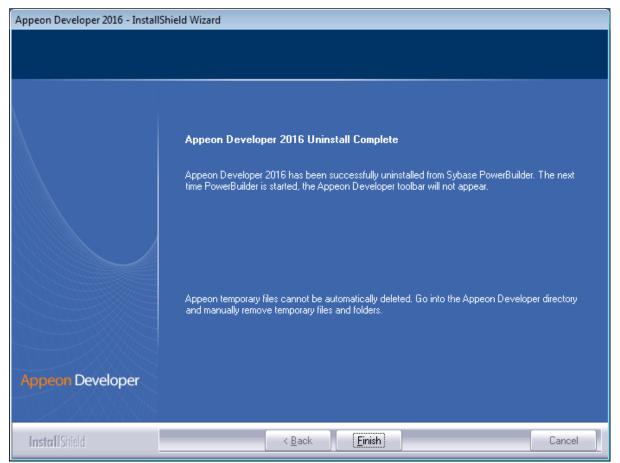
Step 5: Click **OK** to confirm the removal of Appeon Developer.

Figure 7.2: Confirm uninstall



Step 6: Click **Finish** when uninstall is complete.

Figure 7.3: Appeon Developer uninstall complete



Step 7: Use Windows Explorer to manually delete the folder where Appeon Developer was installed. This will remove all Appeon Developer files that are not automatically uninstalled.

7.3 Uninstalling Appeon Server

Step 1: Shut down Appeon Server and JEUS Application Server.

Step 2: Select Windows Start | Control Panel; under Programs, click Uninstall a program; select Appeon Server 2016 for JEUS and click Uninstall to begin the uninstall process.

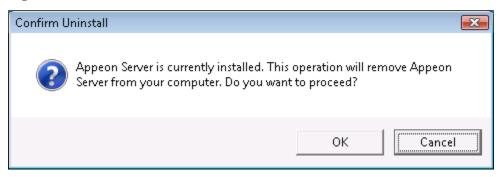
Step 3: Click Next.

Figure 7.4: Remove Appeon Server

Appeon Server 2016 for JEUS - InstallShield Wizard		
Welcome Repair or remove the program.		
	Welcome to the Appeon Server 2016 Setup Maintenance program. This program allows you to remove all installed features.	
Appeon Server for JEUS		
InstallShield	< Back Cance	el

Step 4: Click **OK** to confirm the removal of Appeon Server.

Figure 7.5: Confirm uninstall



Step 5: Wait until Appeon Server is completely uninstalled.

Step 6: Click **Finish** to exit.

Figure 7.6: Appeon Server uninstall complete

Appeon Server 2016 for JEUS - Insta	IShield Wizard	×
	Appeon Server Uninstall Complete	
	Appeon Server has been successfully uninstalled.	
	Appeon temporary files cannot be automatically deleted. Go into Appeon Server directory and manually remove temporary files and folders.	
Appeon Server for JEUS		
InstallShield	< <u>B</u> ack <u>E</u>inish Canc	el

Step 7: After the uninstall process is complete, remove any files or folders left in the Appeon installation folder.

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

Step 1: Stop all Windows programs as well as the Web server.

Step 2: Select Windows Start | Control Panel; under Programs, click Uninstall a program; select Appeon Server Web Component 2016 and click Uninstall to begin the uninstall process.

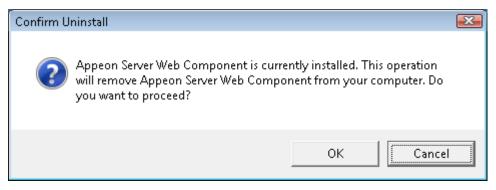
Step 3: Click Next.

Appeon Server Web Componen	it 2016 - InstallShield Wizard	×
Welcome Remove the program.		
	Welcome to the Appeon Server Web Component 2016 Setup Maintenance program. This prog allows you to remove all installed features.	pram
Appeon Server Web Component		
InstallShield	< <u>B</u> ack (<u>Next</u> >) Cano	el

Figure 7.7: Remove Appeon Server Web Component

Step 4: Click **OK** to confirm the removal of Appeon Server Web Component.

Figure 7.8: Confirm uninstall



Step 5: Wait until the uninstallation is complete.

Step 6: Click **Finish** to exit.

Appeon Server Web Component 20	016 - InstallShield Wizard	
	Appeon Server Web Component 2016 Uninstall Complete	
	Appeon Server Web Component 2016 has been successfully uninstalled.	
Appeon Server		
Web Component		
InstallShield	K Back Einish Cance	el 📄

Figure 7.9: Appeon Server Web Component uninstall complete

7.4.1 Uninstalling Web Component if multiple Web servers are involved

Repeat the Web Component uninstall steps for each Web server.

7.5 Uninstalling Appeon Help

Step 1: Select Windows Start | Control Panel; under Programs, click Uninstall a program; select Appeon Help 2016 and click Uninstall to begin the uninstall process.

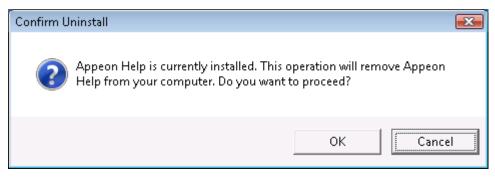
Step 2: Click Next.

Figure 7.10: Remove Appeon Help

Appeon Help 2016 - InstallShield V	Vizard	×
Welcome Remove the program.		
	Welcome to the Appeon Help 2016 Setup Maintenance program. This program allows you to remove all installed features.	
Appeon Help		
InstallShield	< Back Canc	el

Step 3: Click **OK** to confirm the removal of the Appeon Help.

Figure 7.11: Confirm uninstall



Step 4: Click **Finish** when uninstall is complete.

Figure 7.12: Appeon Help uninstall complete

Appeon Help 2016 - InstallShield Wizard	
	Appeon Help 2016 Uninstall Complete
	Appeon Help 2016 has been successfully uninstalled.
Appeon Help	
E \	
InstallShield	< <u>B</u> ack <u>Finish</u> Cancel

Index

A

Appeon components, $\underline{8}$ Appeon Developer, $\underline{8}$ Appeon Help, 9 Appeon Server, 8 Appeon Server Web Component, 8 Appeon Workspace, 8 Appeon Developer, 8 Appeon Developer installation, 27 installation instruction, 27prerequisites, 27 Appeon Developer requirements, <u>11</u> hardware requirements, <u>12</u> software requirements, 11 Appeon editions, 7Appeon Help, 9 Appeon Help installation, 36 Appeon Server, 8 Appeon Server cluster, 16 Appeon Server installation, 22 Appeon Server requirements, 10 hardware requirements, 11 software requirements, 10 Web Server requirements, 11 Appeon Server Web Component, 8 Appeon Server Web Component installation, 33 installation instruction, 34prerequisites, 33 Appeon Workspace, <u>8</u>

before you upgrade, <u>39</u>

С

B

Client Database requirements, <u>12</u> Client requirements, <u>10</u> hardware requirements, <u>10</u> software requirements, <u>10</u> Configuration for Web client PC, <u>48</u> configure Appeon Server cluster, <u>46</u> configure IE settings, <u>50</u>

D

database server requirements, $\underline{12}$ Developer PC, $\underline{15}$

H

hardware requirements, <u>10</u>, <u>11</u>, <u>12</u>

I

installation instructions, <u>27</u>, <u>34</u>
installation scenarios, <u>14</u>
Appeon Server cluster, <u>16</u>
Remote Appeon Server using a third-party
Web server, <u>16</u>
Remote Appeon Server using JEUS HTTP
Server, <u>15</u>
Installation scenarios
Developer PC, <u>15</u>

L

log in as administrator or normal user, 52

P

prerequisites, 27, 33

R

Remote Appeon Server using a third-party Web server, <u>16</u> Remote Appeon Server using JEUS HTTP Server, <u>15</u>

S

server database requirements, <u>13</u> software requirements, <u>10</u>, <u>10</u>, <u>11</u> start the installation, <u>17</u> Synchronization requirements, <u>12</u> synchronization server requirements, <u>13</u> system architecture, <u>4</u> system language settings, <u>52</u>

U

uninstall Appeon Developer, <u>54</u> uninstall Appeon Help, <u>60</u> uninstall Appeon Server, <u>56</u> uninstall Appeon Server Web Component, <u>58</u> upgrade Appeon Developer, <u>40</u> upgrade Appeon Server, <u>39</u> upgrade Appeon Server Web Component, <u>41</u> upgrade configuration settings manually, <u>41</u>

V

verify Chrome/Firefox/Opera settings, 48verify Web browser settings, 48

w

Web Server requirements, 11