

U.S. Department of Transportation Federal Aviation Administration

# Aviation Environmental Design Tool (AEDT)

## Version 2b

## **Installation Guide**

June 2016

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## **1** Installation Introduction

This document provides detailed instructions on how to install and run AEDT 2b. It is important to follow the installation instructions in the order listed below, as Microsoft SQL Server 2008 R2 is a prerequisite for AEDT. Installation components must run locally.

- 1. Install Microsoft SQL Server 2008 R2
- 2. Install AEDT 2b



To install software, the user must have administrative rights to the computer.



Installing AEDT 2a and AEDT 2b on the same computer is supported but is not recommended. A summary of installing AEDT 2a and 2b on the same computer is as follows:

- 1) Install AEDT 2a prerequisites and AEDT 2a following instructions in the AEDT 2a User Guide.
- 2) Run the SQL Server 2008 R2 installer in order to create a new named instance of SQL Server for AEDT 2b databases.
- 3) Install AEDT 2b.
  - During AEDT 2b installation, select the new SQL Server instance name created for AEDT 2b databases. If the SQL Server instance that contains the AEDT 2a databases is selected, then the 2a databases will be overwritten by the 2b databases.

## 2 Technical Assistance

The AEDT Support website, <u>https://aedt.faa.gov/</u>, is the technical support hub for AEDT. Support requests, feedback on bugs, and feature requests should be submitted through this website. The AEDT installer and support resources such as documentation and frequently asked questions (FAQ) are also available on the AEDT Support website. Register on the website to request support or submit feedback on AEDT 2b. Additional options for support include:

- E-mail: <u>aedt-support@dot.gov</u>
- Phone: 617-494-2603

Please include the AEDT Administrative File when requesting technical support. Please refer to Section 4.11.2 in the AEDT User Guide for instructions on generating the Administrative File.

## 3 System Requirements

System specifications for computers capable of hosting the AEDT 2b application are displayed in Table 3-1. The preferred specifications are listed with suggested minimum requirements where applicable. Through the use of SQL Server connectivity, it is possible to connect multiple computational clients to one central database server.

	AEDT 2b Syster	n Specifications		
	Minimum	Preferred		
Operating Systems <sup>1</sup>	Microsoft Windows 7 x64-based Systems	Microsoft Windows 7 x64-based Systems		
Processor	Modern dual core processor with 2 GHz or higher clock	Modern many core (>2) processors with 2 GHz or higher clock		
RAM	4 GB Memory	64 GB Memory		
Hard-disk Space	500 GB Storage	2 TB Storage RAID		
SQL Requirements	Microsoft SQL Server 2008 R2 (x64) or Microsoft SQL Server 2008 R2 Express (x64)	Microsoft SQL Server 2008 R2 (x64)		
Software Requirements	Adobe Reader X (v10) or higher	Adobe Reader X (v10) or higher		

T.I.I. 2.4	AFDT	21. C		<b>D</b>	•
1 able 3-1	AEDT	20 5	/stem	кеа	uirements



AEDT requires administrative privileges for both 1) installation and 2) execution of the software.



OEM version of Microsoft SQL Server 2008 R2 can no longer be purchased. A business entity with a Microsoft Open License can purchase SQL Server 2014 and downgrade to SQL Server 2008 R2 or SQL Server 2012.



The recommended screen resolution is 1920x1080.



AEDT uses the accelerated map display that is part of the ArcGIS Runtime SDK for WPF in order to achieve performance benefits when displaying map layers. Accelerated display is disabled if the computer's graphics hardware does not meet requirements or

<sup>&</sup>lt;sup>1</sup> Use Windows Update to ensure your computer has the latest priority updates.

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when accessing AEDT remotely (e.g. through Remote Desktop). When accelerated display is disabled, map layers may require additional time to load.

#### 3.1 Note for International Users

AEDT supports only "English (United States)" format for the Windows Region and Language.

#### To change Windows Region and Language:

- 1. Open the Windows Control Panel.
- 2. Click Region and Language.
- 3. In the *Region and Language* dialog box, select "English (United States)" as the *Format*.
- 4. Click OK to save your changes and close the dialog box.

🔗 Region and Language	
Formats Location Keyl	boards and Languages Administrative
Format:	
English (United State	s) 🔹
Date and time form	ats
Short date:	M/d/yyyy
Long date:	dddd, MMMM dd, yyyy
Short time:	h:mm tt
Long time:	h:mm:ss tt
First day of week:	Sunday
What does the nota	tion mean?
Examples	
Short date:	12/3/2015
Long date:	Thursday, December 03, 2015
Short time:	11:19 AM
Long time:	11:19:13 AM
<u>Go online to learn abo</u>	Additional settings
	OK Cancel Apply

Figure 3-1 Windows Region and Language Dialog Box

## 4 Installation Package Contents

#### 4.1 Required Software

**SQL+Server+2008+R2+ExpressADV+x64.exe** – Installer for Microsoft SQL Server 2008 R2 Express and SQL Server Management Studio Express for 64-bit operating systems

### 4.2 AEDT Software

Install AEDT 2b.exe - Installer for AEDT 2b

## **5** Software Installation

Install the required software in the order presented in this section. Instructions for verifying the AEDT database versions and steps to uninstall AEDT are also included in this section.

#### 5.1 Install Microsoft SQL Server 2008 R2

Microsoft SQL Server 2008 R2 (x64) or Microsoft SQL Server 2008 R2 Express (x64) must be installed prior to installing AEDT 2b. See Section 3 for system requirements. Microsoft SQL Server 2008 R2 Express (x64) is included in the AEDT 2b installation package (see Section 4). Instructions on installing the SQL Server 2008 R2 Express Edition are described below.



Microsoft SQL Server Management Studio (SSMS) Express is also installed as part of the installation. SQL Server Management Studio is a graphical management tool that allows for configuration and management of Microsoft SQL Server, including backing up and restoring databases and running SQL queries.



The following instructions are written for the Express Edition. The steps and options may be different for other SQL Server Editions.

#### To install Microsoft SQL Server 2008 R2 Express Edition:

- 1. Double-click the *SQL+Server+2008+R2+ExpressADV+x64.exe*.
- 2. Click *Run* if prompted to *Run* or *Cancel*.
- 3. The *SQL Server Installation Center* window will automatically launch when the files have finished extracting.
- 4. Click the *Installation* link on the left side of the window.
- 5. Click the appropriate installation option. Click the *New installation or add features to an existing installation* option unless upgrading from an older version.

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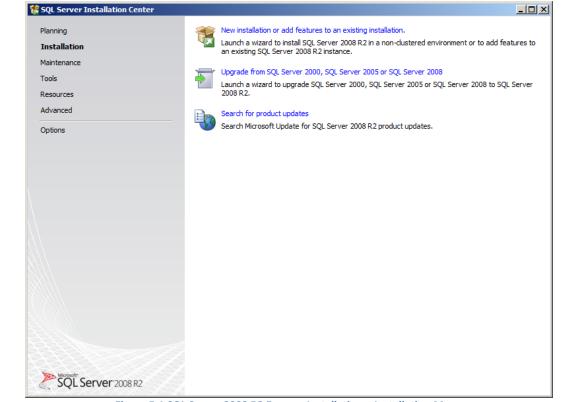


Figure 5-1 SQL Server 2008 R2 Express Installation – Installation Menu

6. SQL Server 2008 R2 Setup will automatically run *Setup Support Rules* which will identify potential installation issues.

7. *License Terms*: Read the terms and check the box that reads *I accept the license terms*. Click Next.

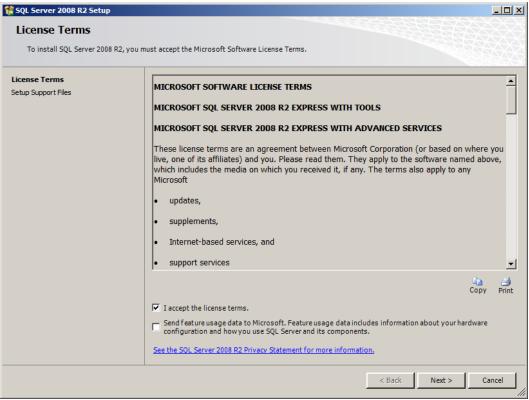


Figure 5-2 SQL Server 2008 R2 Setup – License Terms

8. SQL Server 2008 R2 Setup will automatically run Setup Support Files.

- 9. *Feature Selection:* The list of features will be different depending on the SQL Server edition (e.g. Express vs. Standard). Select the following features (additional features are optional). Click *Next*.
  - Database Engine Services
    - SQL Server Replication
    - Full-Text Search
  - Management Tools Basic

🍀 SQL Server 2008 R2 Setup		
Feature Selection Select the Express with Advanced S	Services features to install.	
Setup Support Rules Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Error Reporting Installation Configuration Rules Installation Progress Complete	Features:         Instance Features         Ø Database Engine Services         Ø SQL Server Replication         Ø Full-Text Search         Reporting Services         Shared Features         Business Intelligence Development Studio         Ø Management Tools - Basic         SQL Client Connectivity SDK         Microsoft Sync Framework         Redistributable Features         Select All         Unselect All         Shared feature directory:         C: \Program Files \Microsoft SQL Server\         Shared feature directory (x86):         C: \Program Files (X86) \Microsoft SQL Server\	Description: Server features are instance- aware and have their own registry hives. They support multiple instances on a computer.
	< Back N4	ext > Cancel Help

Figure 5-3 SQL Server 2008 R2 Setup – Feature Selection

10. *Instance Configuration:* Accept the default settings and click *Next*.

🚼 SQL Server 2008 R2 Setup	stance Configuration         Specify the name and instance ID for the instance of SQL Server. Instance ID becomes part of the installation path.         > Support Rules         ure Selection         lation Rules         ance Configuration         space Engine Configuration         Reporting         lation Configuration Rules         lation Configuration Rules         lation Progress         lation Progress         late         Set Engine Configuration Rules         lation Progress         late         Instance ID:       SQLExpress         Instance root directory:       C:\Program Files\Microsoft SQL Server\MSSQL10_50.SQLExpress         Instance Rome       Instance ID         SQL Server directory:       C:\Program Files\Microsoft SQL Server\MSSQL10_50.SQLExpress         Installed instances:       Instance ID         Instance Name       Instance ID         Peatures       Edition         Version       Version				
Instance Configuration Specify the name and instance ID for	the instance of SQL Serv	er. Instance ID become	s part of the installation	on path.	
Setup Support Rules Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Error Reporting Installation Configuration Rules Installation Progress Complete	Named instance:     Instance ID:     Instance root directory     SQL Server directory:	SQLExpress : C:\Program Files\Micro		iQL10_50.SQLExpress	
	Instance Name	Instance ID	Features	Edition	Version
			< Back	Next > Cance	el Help

Figure 5-4 SQL Server 2008 R2 Setup – Instance Configuration

11. Server Configuration: For the SQL Server Database Engine service, select NT AUTHORITY\SYSTEM in the Account Name field. Select Automatic in the Startup Type drop-down menu. Click Next.



When possible, use the same system or local account to configure the services. Network accounts can be used when NT authentication is required to establish a "backend" SQL Server configuration.

🏶 SQL Server 2008 R2 Setup				
Server Configuration				
Specify the service accounts and coll	ation configuration.			
Setup Support Rules Feature Selection Installation Rules Instance Configuration	Service Accounts Collation Microsoft recommends that you use a	separate account for each SQL Se	erver service. Password	Startup Type
Disk Space Requirements	SQL Server Database Engine	NT AUTHORITY\SYSTEM	Passworu	Automatic
Server Configuration	SQL Full-text Filter Daemon Launcher	NT AUTHORITY/LOCAL SERVICE		Manual
Database Engine Configuration	SQL Server Browser	NT AUTHORITY/LOCAL SERVICE		Disabled 💌
Error Reporting		IN ADMORTH LOCAL SERVICE		
Installation Configuration Rules Installation Progress Complete		Use the same a	ccount for all	SQL Server services
		< Back Next	: > Ca	ancel Help

Figure 5-5 SQL Server 2008 R2 Setup – Server Configuration

12. Database Engine Configuration: Select the Mixed Mode radio button. Enter a password that is at least 10 characters long. Click Add Current User. Click Next.

🍀 SQL Server 2008 R2 Setup		×
Database Engine Configue Specify Database Engine authenticat	ration on security mode, administrators and data directories.	<b>XXXXX</b>
Setup Support Rules Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Error Reporting Installation Configuration Rules Installation Progress Complete	Account Provisioning       Data Directories       FILESTREAM         Specify the authentication mode and administrators for the Database Engine.       Authentication Mode <ul> <li>Windows authentication mode</li> <li>Mixed Mode (SQL Server authentication and Windows authentication)</li> <li>Specify the password for the SQL Server system administrator (sa) account.</li> <li>Enter password:</li> <li>Specify SQL Server administrators</li> </ul> VESTEST Vadministrator (Administrator)         SQL Server administrators have unrestricted access to the Database Engine.           Add Current User         Add         Remove            Add Current User         Add           Remove         Add         Remove           Add Current User         Add         Remove	
	< Back Next > Cancel Help	

Figure 5-6 SQL Server 2008 R2 Setup – Database Engine Configuration

- 13. *Error Reporting:* It is not necessary to select any of the options. Click Next.
- 14. *Installation Progress:* The progress bar and status will update until the installation is complete.

🍀 SQL Server 2008 R2 Setup	
Installation Progress	
Setup Support Rules	
Feature Selection	
Installation Rules	Scanning and normalizing SQL Server registry key permissions.
Instance Configuration Disk Space Requirements	
Server Configuration	
Database Engine Configuration	
Error Reporting	
Installation Configuration Rules	
Installation Progress	
Complete	
	Next > Cancel Help

Figure 5-7 SQL Server 2008 R2 Setup – Installation Progress

15. *Complete:* The final screen will confirm that the installation was successful. Click *Close* to close the *Setup* window.

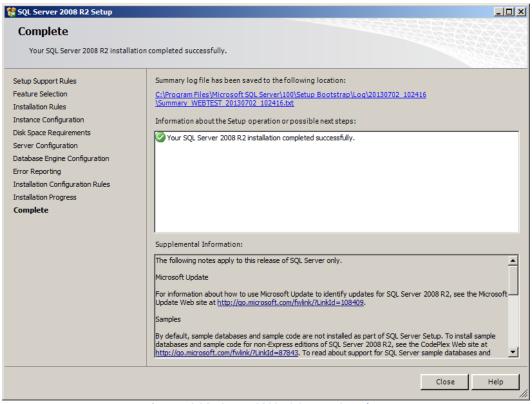


Figure 5-8 SQL Server 2008 R2 Setup – Complete

16. Close the SQL Server Installation Center window by clicking the X in the top right corner.

## 5.2 Install or Update AEDT 2b

Instructions on installing AEDT 2b for the first time are described in Section 5.2.1. Instructions on updating a previous version of AEDT 2b are described in Section 5.2.2. The current version of AEDT is AEDT 2b Service Pack 3. The version number for the release is 70.3.



To install or update software, the user must have administrative rights to the computer.



Installing AEDT 2a and AEDT 2b on the same computer is supported but is not recommended. A summary of installing AEDT 2a and 2b on the same computer is as follows:

- 1) Install AEDT 2a prerequisites and AEDT 2a following instructions in the AEDT 2a User Guide.
- 2) Run the SQL Server 2008 R2 installer in order to create a new named instance of SQL Server for AEDT 2b databases.
- 3) Install AEDT 2b.
  - During AEDT 2b installation, select the new SQL Server instance name created for AEDT 2b databases. If the SQL Server instance that contains the AEDT 2a databases is selected, then the 2a databases will be overwritten by the 2b databases.



It is recommend to include AEDT application as an exception to antivirus run time scan.

#### 5.2.1 Install AEDT 2b

Follow the instructions below to install the AEDT 2b application and databases.

1. To start the installer, double-click the *Install AEDT 2b.exe* file.



AEDT Setup will start Microsoft Distributed Transaction Coordinator (DTC) service if it is not already started on the computer. The DTC provides services designed to ensure successful and complete transactions.

2. If the User Account Control dialog box appears, click Yes.



Figure 5-9 User Account Control Dialog Box

3. The InstallShield Wizard for AEDT will open. Click Next.

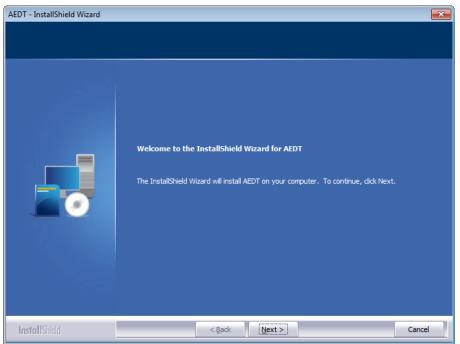


Figure 5-10 AEDT 2b InstallShield Wizard – Welcome

4. Read the license terms and click *I accept the terms of the license agreement*. Click Next.

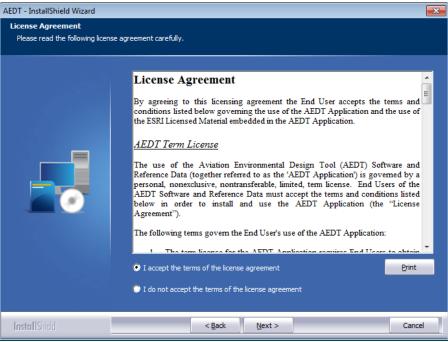


Figure 5-11 AEDT 2b InstallShield Wizard – License Agreement

5. Select the *Complete setup* type and click *Next*.

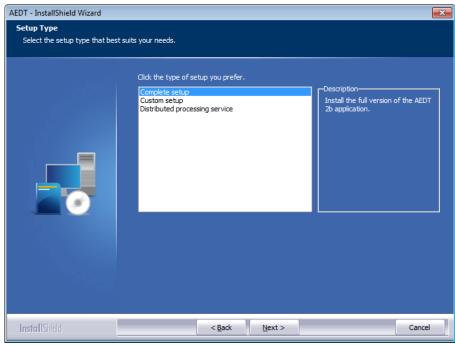


Figure 5-12 AEDT 2b InstallShield Wizard – Setup Type

6. Click *Browse* and select the desired database server instance. Click *Next*. The installer will connect to the database server and advance to the next step.

AEDT - InstallShield Wizard		
Database Server Login		
Select database server and authe	ntication method	
	Database server that you are installing to: (local)  Bgowse  Bgowse  Connect using:  Number of the server authentication  SqL Server authentication using Login ID and password below Login ID: Sa Password:	
InstallShield	< Back [Next >] Cancel	
Figure 5-1	3 AEDT 2b InstallShield Wizard – Database Server	

7. Click *Install* to start the installation. The installation progress will be displayed.

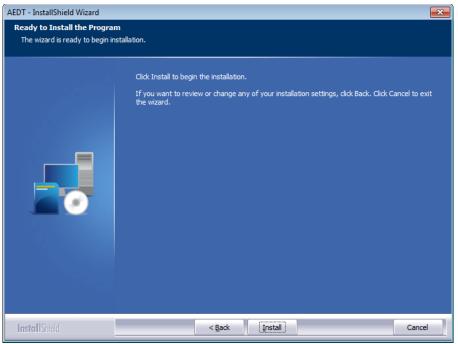


Figure 5-14 AEDT 2b InstallShield Wizard – Ready to Install

8. Click *Finish* when installation is complete.

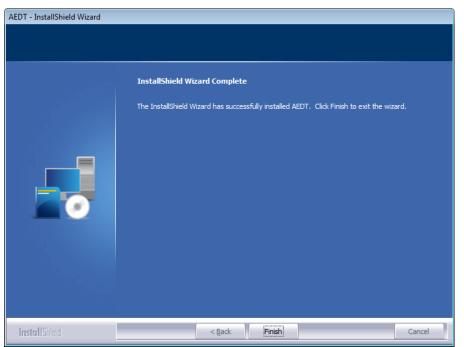


Figure 5-15 AEDT 2b InstallShield Wizard – Installation Complete

- 9. A shortcut is created on the Desktop with the name: *AEDT 2b*.
- 10. AEDT 2b is ready for use.



AEDT Setup will automatically start Distributed Transaction Coordinator (DTC) Service.

To check DTC settings on your computer:

- 1. Click the Windows Start button. In the "Search programs and files" text box, enter "services.msc".
- 2. Find the service, *Distributed Transaction Coordinator*, and double-click on it.
- 3. If the *Startup type* is set to *Manual*, change it to *Automatic*.
- 4. Click the *Log On* tab. The "Log on as" should be set to *Network Service*. To change to Network Service, select the "This account" option, then click *Browse*.
- 5. In the "Enter the object name to select" field, enter "Network Service", then click OK.
- 6. Restart the service.

#### 5.2.2 Update AEDT 2b

This section describes how to update a previously installed version of AEDT 2b to the latest version.

#### Update AEDT 2b Application and System Databases

Follow the instructions below to update the AEDT 2b application and the AEDT system databases. See Section 5.4 for a list of AEDT system databases.

- 1. Before upgrading the AEDT application and databases, exit the AEDT application and close existing database connections.
- 2. Double-click the *Install AEDT 2b.exe* file to start the installer.



AEDT Setup will start Microsoft Distributed Transaction Coordinator (DTC) service if it is not already started on the computer. The DTC provides services designed to ensure successful and complete transactions.

3. If the User Account Control dialog box appears, click Yes.



Figure 5-16 User Account Control Dialog Box

4. The InstallShield Wizard for AEDT will open. The installed version number of AEDT 2b and the version number for the update will be displayed. Click *Next*.

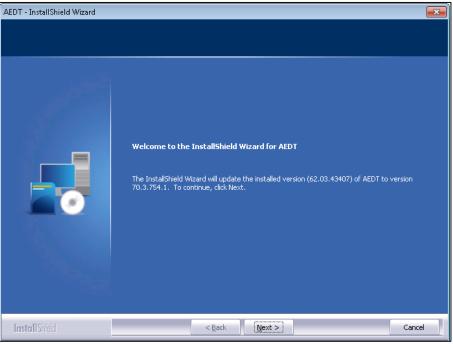


Figure 5-17 AEDT 2b InstallShield Wizard – Welcome

5. The update progress will be displayed.

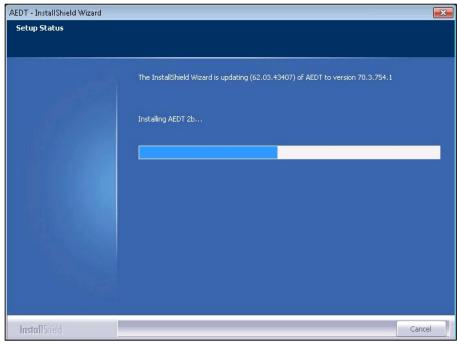


Figure 5-18 AEDT 2b InstallShield Wizard – Setup Status

6. Click *Finish* when the update is complete.

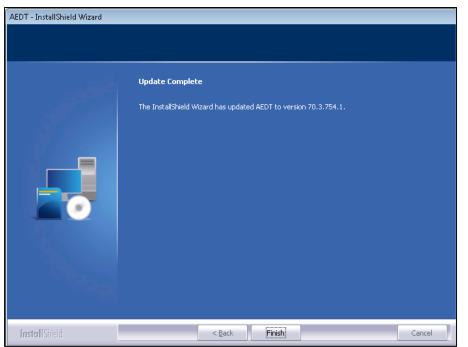


Figure 5-19 AEDT 2b InstallShield Wizard – Installation Complete

7. AEDT 2b has been updated and is ready for use.



AEDT Setup will automatically start Distributed Transaction Coordinator (DTC) Service.

To check DTC settings on your computer:

- 1. Click the Windows Start button. In the "Search programs and files" text box, enter "services.msc".
- 2. Find the service, *Distributed Transaction Coordinator*, and double-click on it.
- 3. If the *Startup type* is set to *Manual*, change it to *Automatic*.
- 4. Click the *Log On* tab. The "Log on as" should be set to *Network Service*. To change to Network Service, select the "This account" option, then click *Browse*.
- 5. In the "Enter the object name to select" field, enter "Network Service", then click OK.
- 6. Restart the service.

#### Upgrade User-Defined AEDT Study Databases

AEDT 2b supports upgrading studies from version 1.43.1 up through and including one version prior to the current version. Follow the instructions in the AEDT 2b User Guide to update a user-defined AEDT study database to the latest version.

## 5.3 Optional – Install AEDT 2b Distributed Processing Service

Installing the AEDT 2b distributed processing service is optional.

AEDT uses distributed computing to provide the ability to run metric results across a number of remote servers to reduce processing time. A distributed processing system is a collection of computers that communicate through a computer network. In AEDT, up to one fifty remote servers running Taskmaster (TM) service can be networked to a single AEDT client computer running AEDT. The AEDT GUI need only be installed on the AEDT client. On the remote servers a set of standard DLLs need to be installed. If a study references terrain and/or weather files, the necessary files must be placed on all remote servers in the same location specified in the *Definitions* tab on AEDT client. The specified file location must be exactly the same for all remote servers.

Each remote server receives a batch of flight operation information from the AEDT client, processes it, returns the resulting data, and awaits the next batch. The AEDT client assigns batches to the remote servers sequentially, as each remote server becomes available.

AEDT databases can reside on the AEDT client (see Figure 5-21 where S1, S2, S3, S4, S5, and S6 represent remote servers), or to reduce memory consumption on the AEDT client due to SQL server processing, the databases can reside on a separate database server (see Figure 5-22, where S1, S2, S3, S4, S5, and S6 represent remote servers). In the latter case, the AEDT client relays all necessary information to the remote servers. The remote servers do not communicate directly with the separate database server.

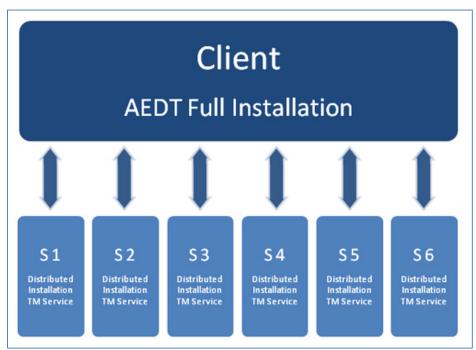


Figure 5-20 Distributed Processing

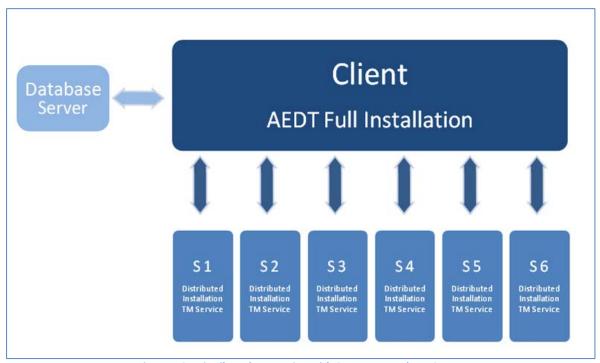


Figure 5-21 Distributed Processing with Separate Database Server

#### 5.3.1 Setup AEDT Client

- 1. Install the entire AEDT system on the AEDT client, including Microsoft SQL Server, AEDT 2b, and AEDT databases. See sections 5.1 and 5.2.
- 2. Verify that the AEDT client can run a study successfully. This is an important verification step. If AEDT is not operational on a single machine, AEDT will not operate in distributed processing mode.

#### 5.3.2 Setup Taskmaster Servers Running Distributed Processing Service

Repeat the following instructions for each remote server that is being utilized for distributed processing.

#### To install AEDT distributed processing service:

1. To start the installer, double-click the *Install AEDT 2b.exe* file.



To install software, the user must have administrative rights to the computer.



AEDT Setup will start Microsoft Distributed Transaction Coordinator (DTC) service if it is not already started on the computer. The DTC provides services designed to ensure successful and complete transactions.

The DTC service needs to be running on both client and server(s).

2. If the User Account Control dialog box appears, click Yes.

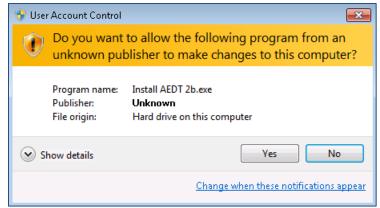


Figure 5-22 User Account Control Dialog Box

3. The InstallShield Wizard for AEDT will open. Click Next.

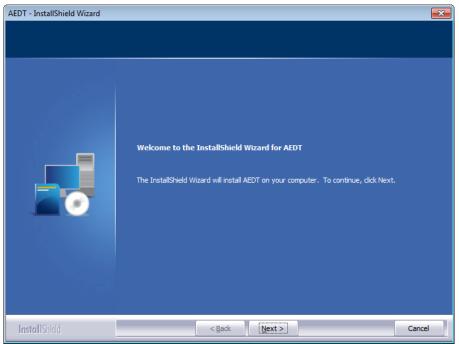


Figure 5-23 AEDT 2b InstallShield Wizard – Welcome

4. Read the license terms and click *I accept the terms of the license agreement*. Click Next.



Figure 5-24 AEDT 2b InstallShield Wizard – License Agreement

5. Select the *Distributed processing service* type and click *Next*.

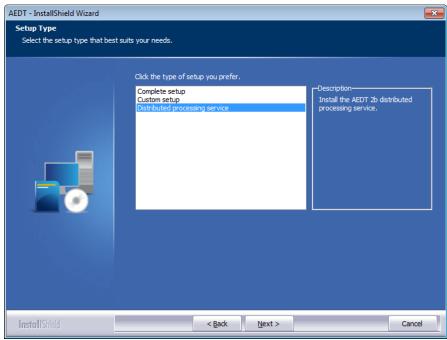


Figure 5-25 AEDT 2b InstallShield Wizard – Setup Type

6. Enter a local user account to be used to start the AEDT distributed processing service. User name must be in the format of DOMAIN\Username (e.g. [computer name]\username), and the user must belong to the local *Administrators* group. Click *Next*. Verifying the account information may take a while.

AEDT - InstallShield Wizard		<b>X</b>
Specify username and password	for the service.	
	Specify the user account to be used to start the AEDT distributed processing service. User accounts must be in the format DOMAIN/Username.	
	User name:	
	Browse	
	Password:	
	Select the button below to specify information about a new user that will be created during the installation.	
	wii be created during the installadori.	
	N <u>e</u> w User	
InstallShield	< <u>B</u> adk <u>N</u> ext > Canc	3

Figure 5-26 AEDT 2b InstallShield Wizard – Specify User Account

7. Click *Install* to start the installation. The installation progress will be displayed.

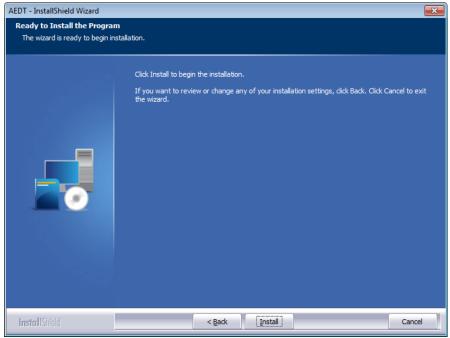


Figure 5-27 AEDT 2b InstallShield Wizard – Ready to Install

8. Click *Finish* when installation is complete.

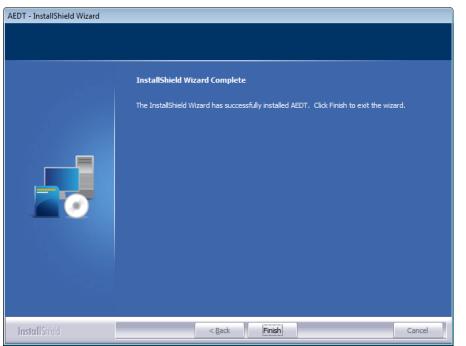


Figure 5-28 AEDT 2b InstallShield Wizard – Installation Complete

- 9. The AEDT 2b Distributed Processing Service is installed and automatically started. The files to support the service are installed under C:\Program Files\FAA\AEDT\
- 10. To view the AEDT 2b Distributed Processing Service:
  - a. Click the Windows Start button, and enter "services.msc".
  - b. The *Services* dialog opens.
  - c. Find the "AEDT 2b Distributed Processing Service".

Services						×
File Action View	Help					
⊨ →   🖬 🗉 🕻	ù 📑 🛛 📰 📄 🗉 🕕 🕨					
Services (Local)	Services (Local)					
	AEDT 2b Distributed Processing	Name	Description	Status	Startup Type	-
	Service	ActiveX Installer (AxInstSV)	Provides Us		Manual	
	top the service	ActivIdentity Shared Store Service	ActivIdentit	Started	Automatic	
	Restart the service	Adaptive Brightness	Monitors a		Manual	
		🔍 Adobe Acrobat Update Service	Adobe Acro	Started	Automatic	1
		🌼 Adobe Flash Player Update Service	This service		Manual	
	Description: The remote computational service	AEDT 2b Distributed Processing Service	The remote	Started	Automatic	
	that supports AEDT Distributed	🔍 AMD External Events Utility		Started	Automatic	
	Processing.	🔍 Application Experience	Processes a	Started	Manual	
	Application Identity	Determines		Manual		

Figure 5-29 Services dialog

### **Aviation Environmental Design Tool**

#### 5.4 Manage AEDT Databases

The following AEDT system databases are installed as part of the complete AEDT installation. After installing AEDT, open the SQL Server Management Studio from the *Start* menu, *All Programs, Microsoft SQL Server 2008 R2, SQL Server Management Studio* and verify that all the AEDT system databases are listed.

- AIRPORT
- FLEET
- STUDY
- STUDY\_DULLES
- STUDY\_IFSET
- STUDY\_INM
- STUDY\_NIRS
- STUDY\_PVD
- STUDY\_WXYZ

#### 5.4.1 Verify AEDT System Database Versions

- 1. Open SQL Server Management Studio from the *Start* menu, *All Programs, Microsoft SQL Server 2008 R2, SQL Server Management Studio*.
- 2. In the *Connect to Server* dialog box, enter or select the appropriate SQL Server instance name, then click the *Connect* button.
- 3. From the *File* menu, select *Open, File*.
- 4. Navigate to C:\Program Files\FAA\AEDT\Script Files\InstallCheckDBversions.sql and select Open.
- 5. Click the *Execute* button located on the toolbar.
- 6. Check the database versions displayed in the *Results* tab.

#### 5.4.2 Backup SQL Server Database

- 1. Open SQL Server Management Studio from the *Start* menu, *All Programs, Microsoft SQL Server 2008* R2, SQL Server Management Studio.
- 2. In the *Connect to Server* dialog box, enter or select the appropriate SQL Server instance name then click the *Connect* button.
- 3. In the *Object Explorer*, select the study database of interest.
- 4. Right-click on the database, and select *Tasks*, *Back Up...* to open the *Back Up Database* dialog box.
- 5. Verify that the *Backup type* is set to *Full*.
- 6. If an entry has already been added to the *Destination* field, select the entry and click the *Remove* button.
- 7. Click the *Add* button to open the *Select Backup Destination* dialog box.
- 8. Click the ... button and browse to the desired location for storing the backup file.
- 9. Enter the desired file name in the *File Name* field, including the .bak extension. Click *OK*.
- 10. Click OK to close the Select Backup Destination dialog box.
- 11. Click *OK* to back up the database. A confirmation message will be displayed if the backup was successful.

📑 Back Up Database - STUDY_DULLES				
Select a page	🖾 Script 🔻 🛐 Help			
Propertions				
	Source		[	
	Database:		STUDY_DULLES	
	Recovery model:		SIMPLE	
	Backup type:		Full	<b></b>
	📃 Copy-only Backup			
	Backup component:			
	Oatabase			
	Files and filegroups:			
	Backup set			
	Name:	STUDY_DULI	ES-Full Database Backup	
	Description:			
	Backup set will expire:			
Connection	After:	0	🚖 days	
Server:	🔘 On:	5/19/2015		
localhost Connection:	Destination Back up to:	Disk	🔘 Таре	
Connection.	C:\Program Files\FAA\AEDT\D	atabaseBackups\	Study_DULLES.bak	Add
View connection properties				
Progress				Remove
C) Ready				Contents
482				
			ОК	Cancel

Figure 5-30 Microsoft SQL Server Management Studio – Back Up Database Dialog Box

#### 5.4.3 Restore SQL Server Database

The SQL Server backup files (.bak) of the AEDT system databases are located in C:\Program Files\FAA\AEDT\DatabaseBackups.

- 1. Open SQL Server Management Studio from the *Start* menu, *All Programs, Microsoft SQL Server 2008 R2, SQL Server Management Studio.*
- 2. In the *Connect to Server* dialog box, enter or select the appropriate SQL Server instance name then click the *Connect* button.
- 3. In the *Object Explorer*, select the database of interest.
- 4. Right-click on the database, and select *Tasks, Restore, Database*... to open the *Restore Database* dialog box.
- 5. Select the *From device* radio button, then click the ... button to open the *Specify Backup* dialog box.
- 6. Click the Add button. Browse to the location of the previously stored back-up file, and click OK.
- 7. Click *OK* to close the *Specify Backup* dialog box.
- 8. Select the *Restore* checkbox for the backup file.
- 9. Select the *Options* page from the left side of the *Restore Database* dialog box.
- 10. Check the Overwrite the existing database (WITH REPLACE) option.
- 11. Click *OK* to restore the database. A confirmation message will be displayed if the restore was successful.

🥑 Restore Database - STUDY_D	ULLES			
Select a page	🔄 Script 🔻 🚺 Help			
Poptions	Destination for restore			
	Select or type the name of a new or existing database for your restore operation.			
	To database: STUDY_DULLES -			
	To a point in time: Most recent possible			
	Source for restore			
	Specify the source and location of backup sets to restore.			
	◎ From database: STUDY_DULLES			
	From device:			
	Select the backup sets to restore:			
	Restore Name Component Type Server Database Position First LSN Last LS			
Connection				
Server: localhost				
Connection:				
View connection properties				
Progress				
Ready Ready	۲ ــــــــــــــــــــــــــــــــــــ			
	OK Cancel			

Figure 5-31 Microsoft SQL Server Management Studio – Restore Database Dialog Box

#### 5.4.4 Delete SQL Server Database

AEDT study databases can be deleted in the SQL Server Management Studio. Exit the AEDT application before deleting an AEDT study database.

- 1. Open SQL Server Management Studio from the *Start* menu, *All Programs, Microsoft SQL Server 2008* R2, SQL Server Management Studio.
- 2. In the *Connect to Server* dialog box, enter or select the appropriate SQL Server instance name then click the *Connect* button.
- 3. In the *Object Explorer*, select the database of interest.
- 4. Right-click on the database, and select *Delete* to open the *Delete Object* dialog box.
- 5. The "Delete backup and restore history information for databases" checkbox is selected by default. Change this setting as desired.
- 6. Select the "Close existing connections" checkbox.
- 7. Click *OK* to delete the database and close the dialog box.

Select a page	-				
Page General	🔄 Script 🔻 📑 Help				
	Object to be deleted				
	Object Name	Object Type	Owner Status	Message	
	STUDY_INM	Database	ADD	Message	
	STODI_INM	Database	NDD		
Connection					
onnection					
Server:					
localhost					
Connection:					
View connection properties					
rogress					
	•		III	4	
Ready	Delete backup and i	restore history informat	ion for databases		
The start of the s	Close existing conne	ections			

Figure 5-32 Microsoft SQL Server Management Studio – Delete Object Dialog Box

#### 5.5 Steps to Uninstall AEDT

#### To uninstall AEDT:

- 1. Navigate to Start, Control Panel, and select Uninstall a program.
- 2. Select *AEDT* from the program list and click *Uninstall*.
- 3. A dialog box will open to confirm the uninstallation of AEDT. Click *Yes* to confirm. This will uninstall AEDT and the system databases.

AEDT - InstallShield Wizard		×
Do you want to completely remove the sele	cted application and all of its	features?
	Yes	No

Figure 5-33 AEDT 2b InstallShield Wizard – Uninstall Confirmation

- 4. The status bar will display an estimated time to finish removing the program.
- 5. Once the uninstallation is complete, the confirmation window will display. Click *Finish* to close the window.

AEDT - InstallShield Wizard	
	Uninstall Complete InstallShield Wizard has finished uninstalling AEDT.
Install Shield	< Back Finish Cancel

Figure 5-34 AEDT 2b InstallShield Wizard – Uninstall Complete

- 6. Confirm that the following folder has been removed. If not, manually delete the folder.
  - C:\Program Files\FAA\AEDT