

Quick AirNow-I Requirements Checklist

The following checklist can be used to confirm that required servers and correct versions of software licenses have been purchased for an AirNow-I installation. Recommended versions are in brackets, but a detailed list of required software versions and hardware recommendations can be found on page 2 of this document.

Network Connection

- _ Wired 100mbps network connection between Database Server and other user desktops and servers.

User Desktops

- _ DMS and IMS Desktop Application Requirements
 - o Microsoft Windows [Windows 7 SP1]
- _ IMS Map Creation Wizard Desktop Application Requirements
 - o ESRI ArcGIS Desktop 10.2 Software
 - o ESRI ArcGIS 10.2 License [Basic Concurrent Use]
- _ WebDMS Web Application
 - o Latest version of Google Chrome, Microsoft Internet Explorer, or Mozilla Firefox

Servers

- _ Database Server Requirements
 - o Microsoft SQL Server Software [SQL Server 2012/2014 Workgroup]
 - o Microsoft Windows Server [Windows Server 2008/2012]
- _ IMS Server(s) Requirements
 - o ESRI ArcGIS Engine or Desktop 10.2 Software [Engine]
 - o ESRI ArcGIS 10.2 License [Basic Single Use]
 - o Microsoft Windows Server [Windows Server 2008/2012]
- _ (Optional) Web Application Server Requirements
 - o Microsoft Windows Server [Windows Server 2008/2012]
 - o Apache Tomcat 6.0
 - o Java 8

AirNow-I 2.1 Detailed Requirements

AirNow-International (AirNow-I) is a suite of client/server applications, each of which has specific software and hardware requirements. The installation options below depend on several factors, such as availability of resources, network configuration and infrastructure, and level of participations of prospective AirNow-I community members and partners. Options 4 and 5 will be available beginning the latter half of 2015.

Installation Options

1. Hosted – OnSite Install and Training
EPA works with the partner (local agency) and sends a team of scientists and engineers to install AirNow-I and train local agency's staff.
 - Hosted on local agency's hardware
 - Custom Application Development
 - No recurring costs
 - Complete application control

2. Hosted - Remote Install
Engineers install AirNow-I remotely on local agency's servers.
 - Hosted on local agency's hardware
 - Custom Application Development
 - No recurring costs
 - Complete application control

3. Hosted - Shipped
 - AirNow-I is installed on servers that are shipped to local agency
 - Host the servers in local agency's own IT infrastructure
 - Develop custom applications
 - No recurring costs
 - Complete application control
 - Additional remote configuration may be required

4. Private Cloud (recommended for WebDMS installations only)
 - Hosted in AirNow-I system's private cloud
 - Instant setup
 - Subscription pricing: month-to-month
 - 24/7 Technical Support for AirNow-I Software

5. Public Cloud (recommended for WebDMS installations only)
 - Installed on the Cloud service provider of local agency's choice.
 - Instant setup
 - Complete application control
 - Subscription pricing: month-to-month

AirNow-I Software Requirements

- **DMS and IMS Desktop Applications**
 - Microsoft Windows Operating System
 - Recommended: Windows 7 SP1
 - Supported: Windows XP SP3*
 - Untested: Windows Vista, 8, and 8.1
 - Microsoft .NET Framework 4.0
- **WebDMS (WebDMS Beta Installations Only)**
 - Latest version of Google Chrome, Microsoft Internet Explorer, or Mozilla Firefox
- **IMS Map Creation Wizard Desktop Application**
 - ESRI ArcGIS Desktop 10.2
 - ESRI 10.2 Basic, Standard or Advanced
 - Basic, Concurrent or Single Use License
- **Microsoft SQL Server Database**
 - Recommended: SQL Server 2012
 - [All versions except Express](#)**
 - Supported: SQL Server 2005* and 2008*
 - Untested: SQL Server 2014
- **IMS Build Server(s)**
 - ESRI ArcGIS Engine or Desktop 10.2
 - ESRI 10.2 Basic, Standard or Advanced License
 - Recommended: Basic Single Use License
 - Microsoft Windows Operating System
 - Recommended: Windows Server 2008
 - Supported: Windows Server 2003*, Windows XP SP3*, Windows 7
 - Untested: Windows 2012, Windows 8/8.1
 - Microsoft .NET Framework 4.0
- **Web Application Server*** (WebDMS Beta Installations Only)**
 - Java JRE 8
 - Java Tomcat 6
 - Microsoft Windows Operating System
 - Recommended: Windows Server 2008
 - Supported: Windows Server 2003*, Windows XP SP3*, Windows 7
 - Untested: Windows 2012, Windows 8/8.1

* Will not be supported in the next major release of AirNow-I

** SQL Server Express can be used for evaluation purposes, but due to its database size limitation and hardware restrictions it is **strongly recommend** that it not be used for production systems.

*** AirNow-I 2.1 currently has two web applications in development; The AirNow-I WebAPI for custom application development and the AirNow-I Navigator GIS Viewer. These applications are not currently supported or part of the standard install, but are available upon request. For evaluation purposes they can be installed alongside IMS on an IMS Server.

AirNow-I Server Hardware Recommendations

Minimum hardware requirements are based on the minimum hardware needed to begin using AirNow-I. Recommended hardware requirements are relative to the amount of data being ingested into DMS, the number of file products being created by IMS, the number of requests to the optional WebAPI, and number of request to the database by custom applications.

- **Stable High Speed Network Connection**

AirNow-I desktop applications require a stable, high speed network connection between the applications and the database server. The desktop applications will not function properly over an internet connection or unstable wireless connection.

- Required: Wired 100mbps or faster

- **Microsoft SQL Server Database Server**

Minimum Requirements

- Windows Compatible 2-GHz Quad Core
- 8GB of RAM
- 500GB Hard Drive

Recommended

- Windows Compatible 16 Core Processor or greater
- 32GB of RAM
- 1TB Hard Drive RAID 5 or SSD

- **IMS Build & Storage Server**

Minimum Requirements

- Windows Compatible 2-GHz Quad Core
- 8GB of RAM
- 120GB Hard Drive

- **Additional IMS Build Servers**

Minimum Requirements

- Windows Compatible 2-GHz Quad Core
- 8GB of RAM
- 80GB Hard Drive

- **(Optional) Web Application Server**

Minimum Requirements

- Windows Compatible 2-GHz Quad Core
- 4GB of RAM
- 80GB Hard Drive