

USER MANUAL

Airodis™ System Requirements

A Pre-installation Guide for
IT Administrators



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Ecotech Pty Ltd is now part of the Acoem Group and as such, the branding of our instruments & software has also changed to 'Acoem'.

Over time we will be updating the content of all documents to reflect the Acoem branding convention.

In the interim, please note that while the cover of this document features Acoem branding, information contained within its pages still utilises the original 'Ecotech' name.

A Pre-installation Guide for IT Administrators

Airodis has been designed to run on a modern operating system, using modern networks and hardware. The software fully supports UAC (runs without admin rights), IPv6, and runs natively in a 64-bit multi-threaded environment.

Operating System

Airodis is supported on the following operating systems:

- Microsoft Windows XP SP3 32-bit
- Microsoft Windows 7 32-bit
- Microsoft Windows 7 64-bit
- Microsoft Windows Server 2003
- Microsoft Windows Server 2003 R2
- Microsoft Windows Server 2008 R2 64-bit

For a server, Ecotech recommends running Microsoft Windows Server 2008 R2. Please note that IPv6 is not supported on Windows XP, Server 2003 or Server 2003 R2.

SQL Server

Airodis is bundled with Microsoft SQL Server 2008 R2 Express. During installation, the user can specify to use an existing SQL instance of SQL Server instead.

The following versions are supported:

- Microsoft SQL Server 2005
- Microsoft SQL Server 2008
- Microsoft SQL Server 2008 R2
- Microsoft SQL Server 2012

If you choose to configure an existing SQL server on the same machine, the DB Config Utility (run at the end of the installation) will create the database and configure its permissions automatically. SysAdmin (sa) access is required during installation.

If you choose to configure an existing SQL server on a different machine, please ensure that SQL server has been configured to allow TCP connections and any firewalls have been configured accordingly (see required firewall ports below).

USB Support

Airodis uses a USB dongle for copy protection. Please ensure that your hardware can access a USB device. If you are running on virtualised hardware, it must support USB pass-through. Ecotech has confirmed this works on VMWare vSphere 4.1 and later, and VMWare Workstation.

.Net Framework

Airodis runs on Microsoft .Net framework 4.0 (extended). It is bundled on the installation media, and will be installed automatically if required.

Connectivity to loggers and instruments in the field

The Airodis download server communicates directly with loggers and instruments in the field. Airodis supports connections over TCP/IP, Dial-up (direct modem connections and RAS), Serial (RS-232) and USB (on selected loggers). Airodis can also import data from files on a local hard drive or a Windows network share (SMB/CIFS).

For TCP connections please ensure that the Airodis server can establish a direct connection to the logger or instrument.

For file imports please ensure that the local *Network Service* account on the server has read permissions for the files to be imported. Alternatively, the Airodis Download Server can be configured to run under a domain account by modifying the properties of the Windows Service.

Firewall Exceptions

These ports **must** be open on the server to allow distributed clients to connect. Both Airodis and SQL server operate on a dual-stack and support both IPv4 and IPv6 (Windows XP is IPv4 only). While it is ideal to enable both protocols where possible, it will function on either of the two.

The Airodis installer can automatically open these ports on the Windows Firewall during installation. The Airodis DB config utility can be used to configure the Windows Firewall to automatically allow traffic on the relevant SQL ports. The installer and DB Config Utility will only configure the software firewall on the local machine - all hardware firewalls positioned between the server and a distributed client will need to be configured manually.

Port	Protocol	Listening Application	Notes
46368	TCP4/TCP6	Airodis Server	The main Airodis server. Required obtaining station lists, reason lists, reports and licenses. A distributed client cannot function without this.
46369	TCP4/TCP6	Airodis Download Server	The download server. A connection is required to get the download status of stations and for the client to initialise communication with a logger.
46370	TCP4/TCP6	Airodis Report Scheduler	This connection is required for the report manager to view and edit the report schedule. It is not required to view, edit or run reports from a distributed client.
3702	UDP4/UDP6	All Airodis server modules	Workspace discovery subnet broadcast. This is only required for workspace auto discovery to work on a local subnet. It's not essential, and will typically work out-of-the-box because SSDP (Simple Service Discovery Protocol) is allowed by default in Windows Firewall. This protocol does not support NAT traversal, and should not be opened on an external hardware firewall.
1433	TCP4/TCP6	SQL Server	An SQL server connection is required to view or edit data from the client, and to view or edit reports locally.
1434	TCP4/TCP6	SQL Server Browser	Required to connect to SQL server using dynamic ports. Dynamic ports are used for all non-default instances. A default instance is named 'MSSQLSERVER'. 'SQLEXPRESS' and 'AIRODIS' are considered named instances, and dynamic ports must be enabled.

Note: For Airodis to automatically notify a user when an update is available, it must be able to establish a connection to <http://download.ecotech.com/>. If the Airodis server's internet connection uses a whitelist, please add this host to its exclusions.



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