



Safety & Risk Management System

TECHNICAL OVERVIEW

AQD Version 7.2.1



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AQD Safety and Risk Management System

Introduction The AQD System consists of several components, namely:

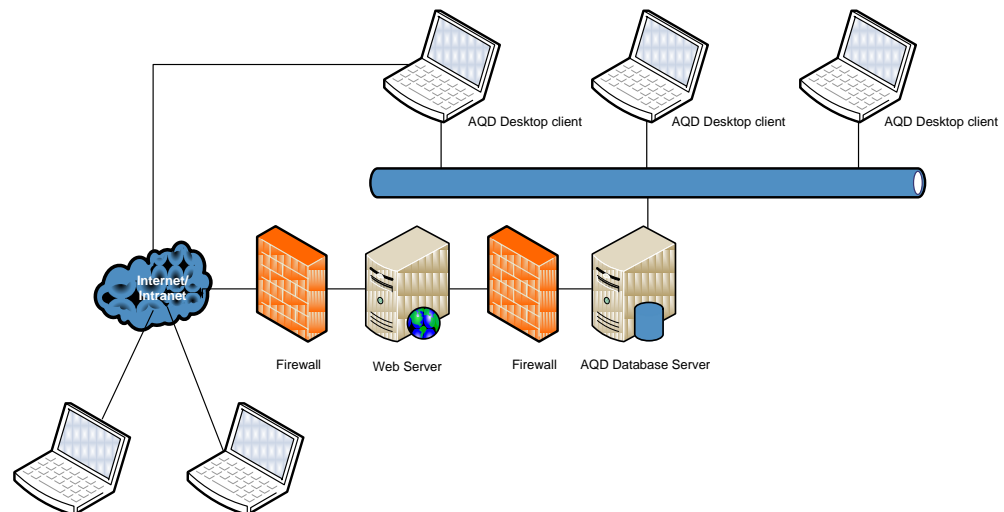
- AQD Database
- AQD Desktop Application
- AQD Automatic Email Alerts
- AQD Offline Capture
- AQD Workbench
- AQD Web Portal

This document is concerned with the Desktop Application only: Please see the relevant documentation accompanying the other products in the AQD suite that you have licensed.

AQD has been developed using Microsoft Access 2007 SP2 and Microsoft .NET 3.5 – but it does not require MS Access 2007 to be pre-installed. If MS Access 2007 is already installed on the PC then AQD will use this, otherwise the AQD installation will include a SageKey installation of the MS Access 2007 SP2 runtime.

The workstation uses a MS Access 2007 based application with C# for .NET components that use ODBC and ADO connections directly to the database.

Basic Network Diagram



Database

Database options available are:

- Microsoft SQL Server (versions 2005 and 2008/2008 R2) (For testing or small deployments, SQL Server Express can be used)
- Oracle (certified for versions 10g and 11i)

Hardware Requirements **Client**
The minimum recommended specification is a 1.8GHz processor with a minimum of 512Mb RAM. Approximately 80Mb of free disk space is required for installation of the client application. AQD requires the video resolution to be at least 1024 x 768.

Server

The specifications for the server depend upon what back end database is to be used. Suppliers' guidelines for Oracle and SQL Server should be followed.

Software Requirements **Operating System**
Windows XP SP2, Server 2003, Vista or Windows 7. AQD will also operate under Terminal Services with Windows 2003 or 2008 Server and Citrix MetaFrame.

Software Prerequisites

The following must be present for AQD to run:

- Microsoft .NET framework version 3.5 Service Pack 1 or higher.
- MS Access 2007 SP2 or the MS Access 2007 Runtime (Note: the Runtime is installed with AQD if required).

Additional software

AQD interfaces with Microsoft Word (2003, 2007 or 2010) and Microsoft Excel (2003, 2007 or 2010).

Email support for Microsoft Outlook is provided via Outlook Redemption v. 4.1, which is installed with the client. Redemption provides support for all versions of MS Outlook. Lotus Notes is supported natively.

AQD provides a facility for people to create their own MS Access reports that are then accessible from within AQD. This makes use of the same version of MS Access that AQD uses (Full or Runtime). Note that if you wish to **design** your own reports with this facility, at least one user will need full MS Access 2007.

License Control AQD is licenced by software key.

Software keys are stored in the AQD database and are used to enforce concurrent, fleet based and corporate licence control. No additional software is required in order to use a software key licence.

Note: *Your licensing allows a parallel AQD installation in a development or test environment. Superstructure Group can provide assistance in providing licences for these installations if necessary.*

Security and Authentication Authentication is based on integrated Windows authentication, and can be varied to suit each organisation's requirements.

Application Configuration AQD follows the Microsoft recommended approach for deploying an MS Access application. The system is split into a front-end MS Access application file and a separate back-end database that contains the data tables (back-end databases can be Oracle or SQL Server).

Other Installation Considerations AQD installs to two locations on the client PC.

1. The static application components and assemblies are installed in to C:\Program Files\Superstructure Group\AQD.
2. The dynamic files that are updated when AQD is running are installed in to C:\Documents and Settings\All Users\Application Data\Superstructure Group\AQD (for XP) or c:\ProgramData\Superstructure Group\AQD (for Vista or Windows 7)

Full documentation is supplied in Installation Instructions and Install Kit documents supplied with AQD, or available on request.

Custom Occurrence Design Tools In order to allow AQD users to design their own Custom Incident Report data entry forms, a C# .NET tool has been created which is called from within AQD. This provides all the tools necessary to create new eReport and Occurrence fields and forms designs. These data entry forms are used to capture and manage event data.

The forms designs are held as metadata in the database. As the form is opened, it is dynamically created using this data. To maximise performance, the data required to create the forms is extracted from the database and held as local record sets in the Application Data directory. The system tracks the status of the local records sets and will refresh these when they become stale.
