



V1
Document
Management

V1 Document Management
OCR Solution Infrastructure Required DM 4.7
2019

Version Changes

Date	Version	Changed By	Summary
01/09/2019	1.1	Chris Rafferty	Modified Existing OCR Solution Infrastructure Required Document Up-to-date
30/09/2019	1.2	Chris Rafferty	Modified Existing OCR Solution Infrastructure Required Document Up-to-date
17/10/2019	1.3	Chris Rafferty	Modified Existing OCR Solution Infrastructure Required Document Up-to-date for DM 4.7

Document Scope

This document is a requirements overview for both single and dual server V1 installations containing the database/s and applications of:

V1 Document Management Release 4.7

- ▶ *V1 Archive*
- ▶ *V1 SmartRetrieve*
- ▶ *V1 Capture*

Optionally:

- ▶ *V1 SmartDeposit*
- ▶ *V1 Authorise*
- ▶ *V1 SmartRetentions*

Please speak to V1 or your Account Manager for scenarios outside the scope of this document:

- ▶ *V1 SmartDashboard*
- ▶ *Multiple Server Installations (the databases and the applications on separate servers)*
- ▶ *External access*
- ▶ *Volumes exceeding the volumes listed*
- ▶ *Non MS SQL database options*

Overview

The standard solution is deployed as an on premise solution to the customer's server(s) which may be physical or virtual. Clients verifying OCR or performing coding should be Windows clients as per the client requirements below. Clients performing email authorisation or document image viewing will only need to use the web client.

Server OS and Database Requirements

Supported Windows Server versions are:

- Windows Server 2012 (64 bit)
- Windows Server 2016 (64 bit)
- Windows Server 2019
- Linux (dB Login & dB Archive servers only and only if SmartDashboard is not deployed)
- AWS Servers are also supported (These servers must match relevant Server Requirements as listed in 'Server Requirements' section below)

Supported Database versions are:

- SQL Server 2012
- SQL Server 2014
- SQL Server 2016 (64 bit)
- SQL Server 2017
- PostgreSQL version 9 (dB Archive servers only)
- Oracle 11g (dB Archive servers only)

- Oracle 12C (dB Archive servers only)

Microsoft SQL Server Express is not supported.

Note: .Net 3.5.1 is also required for V1 application server if separate.

Client/Server network connections should be 100MB minimum, ideally with 1GB LAN connection between any high volume scan stations and the V1 server(s).

Client Requirements

Windows Clients should have minimum of 4GB RAM and 1.0GHz processor with 200MB disk space.

Windows Clients other than V1 Scanner may be deployed on Citrix/Terminal Services.

Supported Windows versions for Clients are:

- Windows 7 (32 bit)
- Windows 8.1 (64 bit)
- Windows 10 (64 bit)

Note: .Net 3.5.1 is required for all Windows clients

Web Clients require:

- RAM – 1GB
- Browser – IE 11 or above, Google Chrome, Mozilla Firefox

Email approval is browser and device independent.

Server Requirements (Single Server)

The information below outlines the server requirements for Small, Medium and Large level document volumes, where both the V1 Applications and V1 Database(s) are housed together on one single server.

Small Level Document Volume

The following server configuration is suitable for deployments processing up to approximately 10,000 documents P/A with up to approximately 50 users:

- Quad-Core CPU (2.0 GHz minimum)
- 16GB RAM
- 30GB disk space for software installation, configuration and cache files
- 128GB disk space for database storage and working directories**

Medium Level Document Volume

The following server configuration is suitable for deployments processing up to approximately 75,000 documents P/A with up to 150 users:

- Quad-Core CPU (2.2 GHz minimum)
- 24GB RAM

- 30GB disk space for software installation, configuration and cache files
- 256GB disk space for database storage and working directories*

Large Level Document Volume

The following server configuration is suitable for deployments processing up to approximately 200,000 documents P/A with up to 150 users:

- 8 Core CPU (2.5 GHz minimum)
- 32GB RAM
- 30GB disk space for software installation, configuration and cache files
- 512GB disk space for database storage and working directories*

N.B. For Medium and Large Level Document Volumes, it is advisable to separate out the servers for both the V1 Database(s) and the V1 Applications to optimise performance and storage space, as well as allowing greater flexibility and scalability.

N.B. The V1 Applications should be installed on a separate drive from the Operating System (normally located on the C Drive), so that the Operating System doesn't impede the processing power of the V1 Applications on that drive.

For higher volumes than the 'Large Level Document Volume', please ask V1 or your Account Manager.

Server Requirements (Separate Servers)

The information below outlines the server requirements for both medium and large level document volumes, where both the V1 applications and the V1 database(s) have been separated out to be housed on two different servers.

Medium Level Document Volume

The following server configurations are suitable for deployments processing up to approximately 75,000 documents P/A with up to 150 users:

Application Server Only

- Quad-Core CPU (2.5GHz minimum)
- 8GB RAM
- 30GB disk space for software installation, configuration and cache files
- 128GB disk space for working directories
- SSD Hard Drive

Database Server Only

- Quad-Core CPU (2.0GHz minimum)
- 16GB RAM
- 256GB disk space for database storage*
- SSD Hard Drive

Large Level Document Volume

The following server configurations are suitable for deployments processing up to approximately 200,000 documents P/A with up to 150 users:

Application Server Only

- 8 Core CPU (2.5GHz minimum)
- 16GB RAM
- 30GB disk space for software installation, configuration and cache files
- 256GB disk space for working directories
- SSD Hard Drive

Database Server Only

- Quad-Core CPU (2.0GHz minimum)
- 32GB RAM
- 512GB disk space for database storage*
- SSD Hard Drive

N.B. The V1 Applications should be installed on a separate drive from the Operating System (which are normally located on the C Drive), so that the Operating System doesn't impede the processing power of the V1 Applications on that drive.

For higher volumes than the 'Large Level Document Volume', please ask V1 or your Account Manager.

Performance

For optimum performance V1 recommend:

- Near LAN available bandwidth between the V1 server and the ERP System server
- Antivirus / Windows Defender exclusion of V1 application folder for "Scan on access" or "Scan on change"

*Database sizing estimates assume an average of 2 pages per document and 100kb per bi-tonal scanned page with 7 years document retention. A V1 storage calculator is available where variations to these assumed variables may be input.