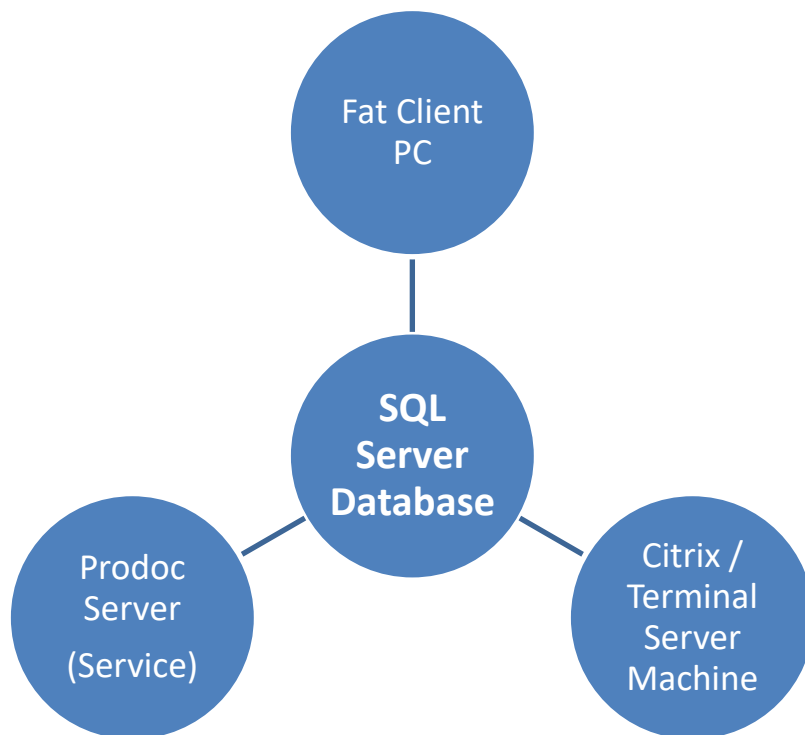


Prodoc III System Structure and Requirements

Prodoc is a client server application designed to run using standard communication protocols. It consists of a SQL database, client components and a service to handle messaging.



Prodoc System Flow Chart

In the simplest installation all of these components are on the same machine.

The diagram shown has each component on its own machine.

The only requirement for machine sharing is that the Prodoc Server Service is not to be run on a Citrix or Terminal Server.

Machine Requirements

SQL SERVER

Versions:

SQL Server 2012 through 2017 in full edition or *Express versions.

Disk space:

This machine stores all of the Prodoc data in standard SQL databases.

The Prodoc application is not affected in any way by which database engine is used.

Prodoc SQL database generally consumes approximately 2-8 GB of hard-disk space.

For minimum/recommended hardware specifications for SQL Server refer to Microsoft's documentation on the version of SQL you intend to use – Prodoc SQL database has no additional hardware requirements.

Database Permissions:

User access to the database can be configured by setting up a Prodoc Users group which is then given the rights to the database making addition of new users a simple IT setup task.

**Using the Express version is not recommended if you are doing more than 750 shipments per annum as you may exceed the database limits (max 10GB database size in SQL Express)

PRODOC SERVER

Hardware Requirements:

CPU: Minimum dual core 32bit or 64bit processors.

Disk Space: 20GB free hard-drive space recommended.

Memory: 4 GB

Operating Systems:

Physical or Virtualized Fat Client or Windows Server.

Windows 7 through 10, Terminal Server 2012R2 through 2019 with .Net 4.6.2 or later.

Protocols:

EDI (Electronic Data Interchange) messages are a combination of EDIFACT, XML, and Flat File.

Secure FTP (port 22) – 3rd party system is Intra.

IP addresses to allow outbound and inbound: 38.106.80.133, 65.51.160.141, 8.41.111.133 (SFTP)

IMAP or POP & SMTP

SOAP over HTTPS (port 443) – 3rd party systems are Prodoc API (for NZ Customs) and MPI

If you have web filtering rules in your firewall then the below sites should be whitelisted.

www.myprodoc.com

www.prodoc.co.nz

www.unece.org

www.customs.govt.nz

www.intra.com

Workload and Database Communication:

Prodoc runs as a service that looks after all of the communication from Prodoc to and from the outside world. This service can co-exist with Prodoc client applications.

All of the Prodoc EDI submissions are performed by this machine.

There should be a network latency of no more than 10ms for database requests made from the Prodoc server to the SQL database server as Prodoc is very chatty with SQL.

PRODOC CLIENT

Hardware Requirements:

CPU: Minimum dual core 32bit or 64bit processors.

Disk Space: Approx. 500 MB per user and 20GB free hard-drive space recommended.

Monitor: Full HD screen (1920 x 1080) resolution recommended.

Operating Systems:

Physical or Virtualized Fat Client or Windows Server running Citrix or Terminal Services.

Windows 7 through 10, Terminal Server 2012R2 through 2019 with .Net 4.6.2 or later.

Workload and Database Communication:

All of the data input processing occurs on the Client machine.

The database requests are made from the client machine to the Prodoc server and in turn communicates to the SQL database. ODBC database sources are not required on the client machines.

Prodoc can communicate with the SQL database via TCP/IP or named pipes using standard Microsoft supplied technology.

There should be a network latency of no more than 10ms for database requests made from the Prodoc server to the SQL database server as Prodoc is very chatty with SQL.

Mail is handled either through Microsoft Outlook or using the built in Prodoc Mail Client both requiring two different configurations.

Mail:

Ultimately, e-mail is sent via the customer email server(s) but initiated from the client machine by using Outlook or Prodoc Mail Client.



Prodoc Mail Client is required when Outlook is not installed on the client machine (this includes Outlook as a Remote Published App whereby Outlook is installed on and being published from another server other than the client machine).

Documents emailed out of Prodoc are standard PDF files, with an approximate size of 80-120kb per page.

There are no restrictions on who can receive emails sent from Prodoc. Adobe reader is the only software required to view the documents.