



Technical Requirements Overview

Soutron Version 4.1.2

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Introduction

Soutron is an Information Management Platform with a highly flexible database application structure that incorporates specialist workflows for library, archive and records management operations using advanced database techniques. It is designed to improve productivity and search effectiveness within information-dependent organizations.

Soutron is based on Microsoft® SQL™ Server and utilizes .NET, MVC and .NET Core technologies.

Delivery Options

Soutron is licenced for use only when a valid support and maintenance contract with Soutron Limited is in place. This includes both hosted SaaS (Software as a Service) installations using servers hosted at one of Soutron's datacenters and when Soutron is installed "In Premise" by a client organisation.

Soutron is a fully configurable and extensible .NET Web application that may be customized by the organization without the need for IT skills.

Customization is achieved through the use of templates and extensive configurable capabilities of Soutron available via the user interface as well as the fully documented .NET API. This enables customizations to be retained while taking advantage of all future upgrades, service packs and releases.

Soutron provides integration services at a number of levels including via web services, APIs and with third party applications.

Soutron System Environment

The following outlines the system environment requirements for Soutron v4.0:

Client Desktop/Tablet System Requirements

Soutron is operated via a web browser. All functions, system management, staff administration and end user searching are performed using a web browser.

Browsers Supported

- Internet Explorer 11 and later
- Edge (latest only)
- Firefox (latest only)
- Google Chrome (latest only)
- Safari (latest only)

Recommended minimum screen resolution 1024x768

Servers System Requirements

Windows Server 2012 or higher



Application and Web Server

- IIS 8 or higher
- .NET Framework v4.6.1 or higher
- .NET CORE 2.0 or higher
- E-mail server. This can be the SMTP server built into IIS or an exchange server.
- MS Reporting Services (this can be installed on the database server if preferred).
- Soutron Windows Service is a required component for processing tasks.

Database

- MS SQL Server 2012 or higher
 - Standard or Enterprise Edition
 - or Web edition (if scheduled reports are not required).
- Adobe i-filter

Database Server Notes

Microsoft SQL Full Text Search: This component of SQL Server must be installed and running before installing Soutron. This component can be installed with SQL Server or added later by the SQL Server Installation Package.

Microsoft SQL Management Studio: It is strongly recommended that this component be installed.

Microsoft SQL Server Reporting Services: This component of SQL Server must be installed and running before installing Soutron

I-Filter is required for document indexing. This must be installed on the database server if indexing of documents in the database is required.

Supported Server Configurations

Soutron Library System uses Microsoft SQL Server as its backend database. The application can be split over one or two servers. Soutron recommends separate servers for the web and database, as illustrated in Diagram 1. However, single server configuration is also supported.

For best performance, use separate physical or virtual machines for the Database Server and Web Server - see Diagram 1.

A single server configuration is also supported and may be suitable for installations with a smaller number of users and records – see Diagram 2

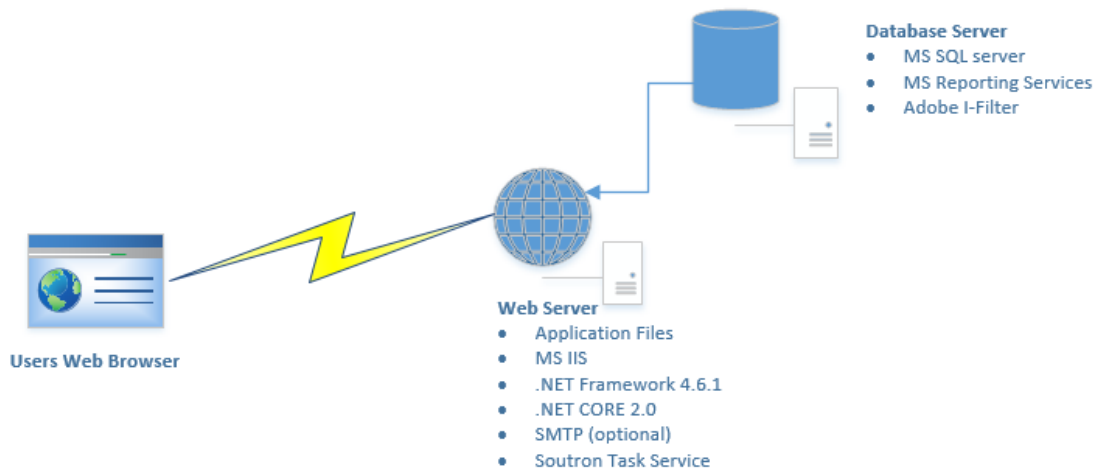


Diagram 1: Separate server for database and website



Diagram 2: Single server for database and website

Soutron v4 Configuration

The Soutron application program files must reside on the Web server. The database may reside on the same or on another server. Factors such as number of simultaneous users, amount of data, network speed and bandwidth should be used to determine whether the database should reside jointly on the same server as the application. Consult your Soutron representative to discuss the operating environment best suited for your deployment of Soutron.

Operating Environment Guidelines

Hardware Requirements

The following table outlines the minimum hardware requirements for Soutron. These are not recommended but indicate the lowest level of resource for use of the application. The actual resource your system may require is dependent upon the size of database and number of concurrent users.

A two server (Web Server and Database Server) configuration is recommended for best performance

| | Disc Storage | Operating System | Processor | Memory |
|---|---|---------------------------------|---|--|
| Web Server (also referred to as the Application Server) | 2Gb (accounts for application files only) | Windows Server 2012 R2 or above | Recommended: Quad Core CPU running at 3.0 GHz or faster. | Minimum: 6GB Recommended: 8GB |
| Database Server | As per Microsoft Specification Additional space required for Soutron content and backup files. Recommended Minimum of 100GB. | Windows Server 2012 R2 or above | Recommended: Quad Core CPU running at 3.0 GHz or faster. | Minimum: 12GB Recommended: 16-20GB (More if multiple instances or other databases are on the same server) |

TABLE 1. REQUIREMENTS FOR A TWO-SERVER CONFIGURATION

Environment and Performance Guidelines

The recommended server configurations are directly dependent on:

- Volume of data
- Type of data
- Number of simultaneous users
- Available bandwidth

Consult your Soutron representative to discuss the operating environment best suited for your needs.

Security

SSL Support

Soutron can be configured to use SSL for additional security. This is an optional extra for additional security. Please ask your Soutron representative for prices.

Authorization

Soutron uses an access permission system that is role-based and can be customized to the needs of your organization. Groups can be defined by the System Administrator and access permissions assigned to provide restricted access to content and functions.

Administrator's Permission System

Every Soutron User who performs administrative functions is assigned at least one role but may have multiple roles assigned, if desired.

End users who search the database are not assigned roles but instead are assumed to be a Guest role automatically.

Additional Security Groups can be devised and described to the system to define the access permissions available to a user.

Based on the User's role membership, assignment to a Group, authorization to view, edit, create and delete content as well as administer the system is granted.

Each User has a "guest role" by default

Soutron's Application Service Account

A single application process identity provides the required access to the external resources that are used by Soutron such as Active directory and reporting services.

For further assistance:

If you have any questions regarding these technical guidelines, please contact Soutron

Email helpdesk@soutron.com or visit www.soutron.com/support

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