



Perinorm

System requirements

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Revision history

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Reviewers

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1. Introduction

1.1 Purpose of this document

This document intends to give an overview of the hardware and software requirements set by the Perinorm Application and its tools.

1.2 Scope of this document

This document describes all versions of the Perinorm Application.

2. Stand-alone version (DVD)

2.1 Software requirements

2.1.1 Operating system

Supported operating systems:

- Windows XP,
- Windows Vista
- Windows 7 (if released)

2.1.2 .NET Framework

All of the above operating systems must have .NET Framework 2.0 installed.

2.1.3 Web browser

A web browser is required. Support on the Windows platform will be:

- Microsoft Internet Explorer 6 or higher
- Firefox 2 or higher
- Google Chrome
- Opera 8 or higher

2.1.4 TCP/IP

The Perinorm application uses the HTTP protocol for the communication between web browser and the application itself. This requires that the TCP/IP must be present on the system and connection can be made to IP-address 127.0.0.1 (i.e. 'localhost') on a yet to be determined port.

2.2 Hardware requirements

Desktop system architecture with:

- Processor: 2,8 GHz
- Memory:
 - XP: 512 MB
 - Vista: 2 GB
 - Windows 7: 2 GB
- Hard disk: 5GB free space (when data copied to hard disk)
- DVD: 8-speed DVD-rom (when data left on DVD, otherwise speed does not matter)

2.3 Other system requirements

2.3.1 Internet connection

An Internet connection is not required per se, however it must be present to use online fulltexts.

2.3.2 PDF Reader

A PDF reader, preferably Adobe Reader version 8 or higher must be installed in order to use the advanced search results printing functionality.

2.4 Software installed by Perinorm

The DVD version of the Perinorm application will install the following software

- The Perinorm application
 - .NET based
 - Including 'localhost' web server component
 - Including ASP.NET processing capabilities
 - Including SQLite database connector
- The Perinorm migration tool (optional)
 - .NET based,
 - Including SQLite database connector
 - Including MsAccess database connector

Note 1: No SQL database server/service is installed nor required; the SQLite database 'server' as well as the MsAccess database components are embedded in the applications.

3. Network version (DVD)

3.1 Server requirements

In the network version the server is solely used as a file server. No running components are required on the server. This means that any type of file server that can normally be used in a Windows network environment is suitable to 'host' the network version of Perinorm.

3.2 Workstation requirements

The workstation requirements are the same as all system requirements for the stand-alone version of Perinorm (see section 2).

3.2.1 Workstation installation

It will be required to execute an installation on every workstation that will use Perinorm. This installation will install COM-components:

1. Catonet; which is required by the 'localhost' webserver component.
2. To centrally store user data an MS-Access database will be used. This requires installation of OleDb or ODBC on the client system.

4. Intranet version

4.1 Server requirements for Windows servers

4.1.1 Software requirements

4.1.1.1 Operating system

Supported operating systems:

- Windows 2003
- Windows 2008

4.1.1.2 NET Framework

.NET Framework 2.0 must be installed, prior to installing Perinorm

4.1.1.3 Web server

IIS 6 (Windows 2003) or 7 (Windows 2008) must be installed, prior to installing Perinorm.

4.1.1.4 TCP/IP

Must be available.

4.1.2 Hardware requirements

Server system architecture with:

- Processor: 2 x 2,0 GHz dual core
- Memory: 4 GB
- Hard disk: 50GB free space¹ (in raid 5 configuration)
- DVD: DVD-rom player

4.1.3 Other requirements

4.1.3.1 Internet connection

An Internet connection is not required per se, however it must be present to use online fulltexts².

4.1.3.2 SMTP server

The Intranet server must have a connection to an SMTP server that allows relaying of messages from the Intranet server to the users' e-mail addresses.

4.2 Server requirements for Linux servers

4.2.1 Software requirements

4.2.1.1 Operating system

Supported operating systems:

- Linux

¹ Required amount of free disk space depends heavily on the size of the Company Standards collection that must be indexed. For reference; the free disk space needed to index the 1.3 million Perinorm records is close to 60 GB.

² The Intranet version can contact a web service to retrieve fulltext subscriptions

4.2.1.2 *Mono*

Mono 2.4 must be installed, prior to installing Perinorm¹.

4.2.1.3 *Web server*

Apache 2 must be installed, prior to installing Perinorm.

4.2.1.4 *TCP/IP*

Must be available.

4.2.2 **Hardware requirements**

Server system architecture with:

- Processor: 2 x 2,0 GHz dual core
- Memory: 4 GB
- Hard disk: 50GB free space² (in raid 5 configuration)
- DVD: DVD-rom player

4.2.3 **Other requirements**

4.2.3.1 *Internet connection*

An Internet connection is not required per se, however it must be present to use online fulltexts³.

4.2.3.2 *SMTP server*

The Intranet server must have a connection to an SMTP server that allows relaying of messages from the Intranet server to the users' e-mail addresses.

4.3 **Workstation requirements**

4.3.1 **Operating system and browser**

Specific operating system requirements are not set for workstations using the Intranet version of Perinorm. The following operating system/browser versions will be supported:

- Windows XP, Vista and Windows 7 with
 - Internet Explorer (version greater equal 6),
 - Firefox (version greater equal 2),
 - Opera (version greater equal 8)
 - Google Chrome
- Unix/Linux with:
 - Konqueror (version greater equal 3)
- Macintosh with
 - Safari (version greater equal 2)

¹ Mono 2.4 was released on March 30th, 2009. This version of Mono is required, because it supports "precompiled sites". This is not available in version 2.0 (which was previously the requirement). In order not to reveal application logic (*read* source code) delivering of a precompiled site is recommended. Mono 2.4 was released on schedule. Current developments are tested on OpenSuse with Mono 2.4.

² Required amount of free disk space depends heavily on the size of the Company Standards collection that must be indexed. For reference; the free disk space needed to index the 1.3 million Perinorm records is close to 60 GB.

³ The Intranet version can contact a web service to retrieve fulltext subscriptions

Requiring that browsers behave the same on any platform they support, other combinations can be used. E.g.:

- Windows with Safari
- Macintosh with IE
- Linux with Firefox
- Etc.

4.3.2 PDF Reader

A PDF reader, preferably Adobe Reader version 8 or higher must be installed in order to use the advanced search results printing functionality.

4.4 Software installed by Perinorm (only on servers)

The Intranet version of the Perinorm application will install the following software on the server.

- The Perinorm application
 - .NET based on Windows
 - Mono based on Linux
- The Perinorm Search Engines
 - .NET based on Windows
 - Mono based on Linux
- The Perinorm migration tool (Windows only)
 - .NET based
- Company Standards production tool
 - .NET based on Windows
 - Mono based on Linux
- User data update service
 - .NET based on Windows
 - Mono based on Linux
- Alerts service
 - .NET based on Windows
 - Mono based on Linux
- Backup/Restore tool
 - .NET based on Windows
 - Mono based on Linux
- PostgreSQL database server.

No software will need to be installed on the workstations.

5. Internet version

5.1 Requirements for Internet servers

5.1.1 Software requirements

5.1.1.1 Operating system

Supported operating systems:

- Windows 2003
- Windows 2008

5.1.1.2 NET Framework

.NET Framework 2.0 must be installed, prior to installing Perinorm

5.1.1.3 Web server

IIS 6 (Windows 2003) or 7 (Windows 2008) must be installed, prior to installing Perinorm.

5.1.1.4 TCP/IP

Must be available.

5.1.2 Hardware requirements

Server system architecture with:

- Processor: 2 x 2,0 GHz dual core
- Memory: 4 GB
- Hard disk: 250GB free space¹ (in raid 5 configuration)
- DVD: DVD-rom player

5.1.3 Other requirements

5.1.3.1 Internet connection

An Internet connection is obviously required.

5.1.3.2 SMTP server/service

The Intranet server must have a connection to an SMTP server that allows relaying of messages from the Intranet server to the users' e-mail addresses.

5.1.3.3 FTP server/service

At least one of the Internet servers must have an FTP-server application running in order to allow Perinorm data uploads, Customer license data uploads (from Beuth), Fulltext subscription data uploads (from Beuth and AFNOR) and software update uploads.

5.2 Requirements for Internet client systems

The system requirements for the end users' computers are the same as the workstation requirements for the Intranet version (see 4.3).

¹ Required amount of free disk space depends heavily on the size of the Company Standards collection that must be indexed. For reference; the free disk space needed to index the 1.3 million Perinorm records is close to 60 GB.

5.3 Software installed by Perinorm (only on servers)

The Intranet version of the Perinorm application will install the following software on the server.

- The Perinorm application
- The Perinorm Search Engine web services
- The Perinorm Back Office application
- Perinorm and Company Standards production tool(s)
- User data update service
- Alerts service
- Backup/Restore tool
- Customer license import tool
- Fulltext subscriptions import tool
- Customer license/Fulltext subscriptions update web service
- PostgreSQL database server

No software will need to be installed on the workstations.