

Bartrack for Windows version 1	Datum 2009-11-24	Ref ks001f17v4	Sidnr 1(9)
	Ansvarig Johan Hansson		
Public Document	Titel <b>Target Environment Specification</b>		

## Target Environment Specification

# Bartrack Version Windows 1.1

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## 1 INTRODUCTION

### 1.1 General

This document defines the target environment for the Bartrack for Windows product. All software components in the target environment will be specified for;

1. Name and version. Note that the lowest required versions are specified, higher version should work, but is not tested.
2. Support contacts

This is done to make sure that we can reproduce the Bartrack product even if the tool suppliers are gone.

### 1.2 Purpose

The purpose of this document is to make sure that:

1. Customers and developers agree on the environment needed for the Bartrack product to perform according to its requirements.
2. Test activities are performed in the correct environment.
3. The target environment of any released Bartrack product is reproducible. This is very important for maintenance reasons, during trouble-shooting etc.
4. To ensure that the customer are installing in the proper environment.

### 1.3 Definitions

N/A	Not applicable
MS	Microsoft Corporation
OS	Operating System

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## 2 TARGET ENVIRONMENT OVERVIEW

The target environment of the Bartrack product consists of:

- Bartrack server.
- Bartrack web server.
- Bartrack client, web-based application with the barcode reader either connected to the keyboard or by the serial port.
- Network between those computers.

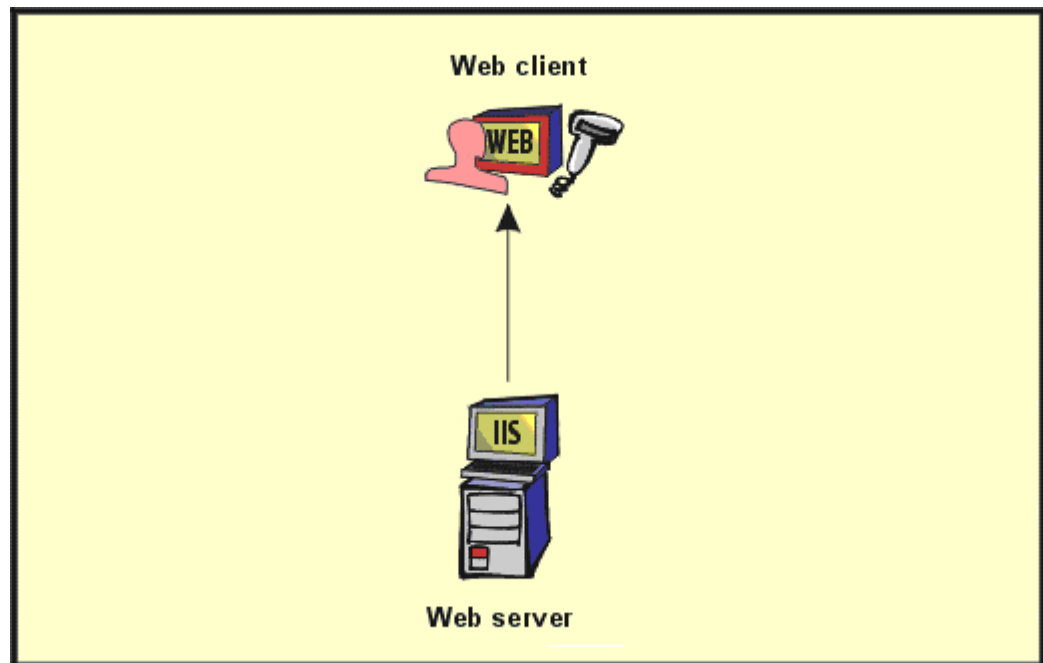


Figure 1: Overview of Bartrack target environment

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### 3 BARTRACK SERVER

The server computer is a computer with operating system Windows server 2003. The computers in the table below should be seen as a reference point.

#### 3.1 Specification

The minimum configuration shall be at least:

Issue	Specification
Processor	Pentium Xeon 2 GHz
Memory (RAM)	8 GB or more
Hard drive (local)	see 3.1.12
Network	100 Mbit at least

*Minimum configuration*

##### 3.1.1 Estimation on RAM

To calculate the need of RAM for the server, below template will gives an indication of memory needed. This is approximate values.

Clients and application

- +4 GB 100 common Java Bartrack Clients
- +8 GB 200 common Java Bartrack Clients
- +16 GB 300 common Java Bartrack Clients

Database

- 1-2 GB Oracle and Bartrack database

##### 3.1.2 Recommendation

To run Bartrack in an efficient way, we recommend the following set-up, with 4 disks, as a minimum:

- Disk 1: (36GB) Data dictionary files, control file, redo log
- Disk 2: (36GB) Oracle software, archived redo logs, backup
- Disk 3: (36GB) Indexes, control file, redo log
- Disk 4: (36GB) DATA, control file, redo log

### 3.2 Operating System

Tool Type	Tool Name	Distributed by
OS	Windows server 2003 (64/32-bit)	Microsoft

*OS version on the server*

### 3.3 Software

Tool Type	Tool Name	Distributed by
Database manager	Oracle 10g	Oracle
Client	Oracle Client Interface OCI	Oracle

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interface	10.2	
Message Oriented Middleware	MS Message Queue (MSMQ)	Microsoft
Java	Java Runtime Environment 1.6	Sun Microsystems
Framework	.NET Framework 2.0	Microsoft

*Other required system software*

### 3.4 Recommendations

The use of mirrored disk and defragmentation programmes is strongly recommended due to ensure good availability and performance.

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#### 4 BARTRACK WEB SERVER

The Bartrack web server computer is a normal Windows PC with additional web server functionality. You must use a web server to distribute the Bartrack client application to the PC clients.

##### 4.1 Specification

The minimum configuration of the web server shall be according to the required number of simultaneous users starting Bartrack. After Bartrack has started on the web client, the web server has no workload related to the Bartrack application.

The minimum configuration shall be at least:

Issue	Capacities and models
Processor	Pentium II 400 MHz
Memory (RAM)	128 Mb (256 recommended)
Hard drive (local)	60 Mb free for Bartrack files

*Web server specification*

##### 4.2 Operating System

The operating system must be able to run the required software (see 4.3 Software). Any operating system capable of handling the required software the same way the required operating system can do, might work, but is not supported.

Tool Type	Tool Name	Distributed by
OS	Windows 2003	Microsoft

*OS version on the web server*

##### 4.3 Software

Any web server software capable of handling Bartrack the same way the required software can do, might work, but is not supported.

Tool Type	Tool Name	Distributed by
Web Server	MS Internet Information Server 5 or 6	Microsoft

*Other required system software*

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## 5 BARTRACK WEB CLIENT

The Bartrack web client consists of two parts; the client PC with the web browser and the web server software. The web server contains the files for the client and distributes them to the client when the user starts Bartrack.

### 5.1 Hardware

The minimum configuration shall be at least:

Issue	Capabilities and models
Processor	Pentium III 500 Mhz
Memory (RAM)	512 Mb (1 GB recommended)
Hard drive (local)	30 Mb free for Bartrack
Display	SVGA 800x600

*Minimum configuration of Bartrack client*

### 5.2 Software

Required software for the Bartrack client is:

Tool Type	Tool Name	Distributed by
Java Plugin	Plugin Java Runtime Environment 1.6, uploaded at Bartrack execution, distributed at Bartrack installation	Sun Microsystems or at Bartrack installation
Web browser	Internet Explorer 6 or 7	Microsoft
Java Web Start	Java Web Start 1.6, built in as a part of Java Runtime Environment 1.6 and distributed at Bartrack installation	Sun Microsystems or at Bartrack installation

*Base software for web browser client*



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## 6 BARTRACK PRINTERS

The printers used by Bartrack are specialized label printers for barcodes and a laser printer for the structure report. The printers are connected to the same AXP node as where the server software runs.

Type	Name
Structure report	Kyocera Prescribe II or equivalent
Barcode labels	Zebra S500 or equivalent
Barcode labels	Intermec 3240 or 3400 or equivalent

*Base configuration for Bartrack printers*

## 7 BARTRACK SCANNERS

The barcode scanners are connected to the desired client. A scanner may be connected through the keyboard or through the serial port.

Issue	Capabilities and models
Barcode Reader Code 128	Intermec 1545 (scanner) + 9710 (adapter) or equivalent
Barcode Reader PDF417	Symbol PDF 1000 or equivalent

*Base configuration for Bartrack scanners*

## 8 NETWORK

The communication network between the terminal computers, the Bartrack server and the Bartrack web server shall support TCP/IP, for example Ethernet.

### 8.1 TCP/IP

Tool Type	Tool Name	Distributed by
Network protocol	RFC 802.3	N/A

*Base configuration for network communication*