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	Responsible					
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Public document	Title					
Target Environment Specification						

Target Environment Specification

Bartrack 6.3

Abstract

This document specifies the target environment on which the Bartrack product is to be installed and executing.



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1 Introduction

1.1 General

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

1. Name and version. Note that the lowest required versions are specified, higher versions 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 Windows client, with the barcode reader connected between the keyboard and the computer or by the serial port.
- Bartrack VT-terminal “client”, with the barcode reader connected between the keyboard and the terminal or by the serial port.
- Bartrack “Thin client”, Web-based application with the barcode reader connected to the serial port.
- Network between those computers.

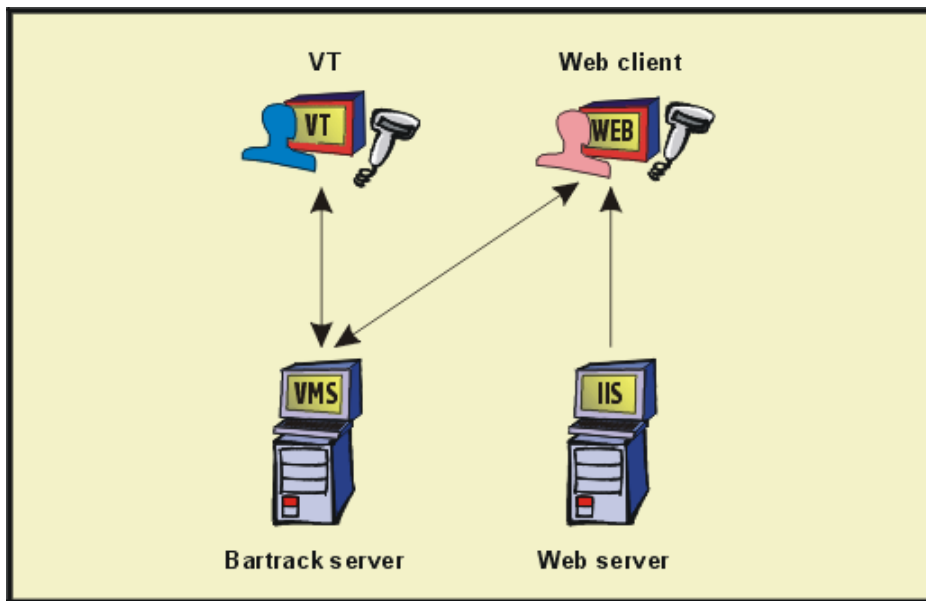


Figure 1: Overview of Bartrack target environment



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3 Bartrack Server

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

The Bartrack system can be operated using two different user interfaces; The web or the VT interface. Depending on which interfaces you want to use, different software has to be installed.

3.1 Specification

The minimum configuration of the server shall be according to the required number of transactions per minute (abbreviated TPM). This is not real figures, only a qualified guess of number of AlphaServer 1000 or AlphaServer 2100 processors and memory:

Issue	0-30 TPM	31-120 TPM
No. of CPUs	AlphaServer 800 or comparable	1 x AlphaServer 1200 or comparable
RAM memory	384 Mb	512 Mb

Minimum configuration vs transaction load

The minimum number of disk required to run Bartrack is 3. If you want to have two system disks, it means that the total number of disks required will be 5. The three Bartrack disks needs to be at least 9GB each.

3.2 Operating System

Tool Type	Tool Name	Distributed by
OS	OpenVMS 7.3-1	Compaq

OS version on the server

3.3 Software

Tool Type	Tool Name	Distributed by
Database Manager	Oracle Rdb 7.1-04 or higher	Oracle
Message Oriented Middleware	BEAMessageQ 5.0	BEA system
Java	Java Runtime Environment 1.3.1	Sun

Other required system software

If you intend to use the VT-terminal "client", you'll have to install this additional software:

Tool Type	Tool Name	Distributed by
VT user interface manager	DECforms 3.2	Compaq

Required system software by VT-terminals

If you intend to use the EDI communication with Ericsson's traceability system Tracy, you'll have to install this additional software:



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Tool Type	Tool Name	Distributed by
EDI	DEC/EDI V3.2	Compaq

Required system software by file transfer to Tracy

3.4 Recommendations

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

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 Java application to the browsers.

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 400MHz
Memory (RAM)	128 Mb (256 recommended)
Hard drive (local)	30 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 NT/2000	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	Microsoft Internet Information Server 4.0	Microsoft

Other required system software

5 Bartrack Thin Client

The thin 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 it to the client when the user starts Bartrack.

5.1 Hardware

The minimum configuration shall be at least:



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Issue	Capacities and models
Processor	Pentium III 500
Memory (RAM)	128 Mb (256 recommended)
Hard drive (local)	30 Mb free for Bartrack
Display	SVGA 800x600

Minimum configuration of Bartrack client

5.2 Software

Required software for the client part is:

Tool Type	Tool Name	Distributed by
JAVA Plugin	Plugin JRE 1.3.1_06, uploaded at Bartrack execution, distributed at Bartrack installation.	Sun or the Bartrack installation
Web browser	Internet Explorer 5 or higher	Microsoft
Java Web Start	Java Web Start 1.0.1_02 uploaded at Bartrack execution, distributed at Bartrack installation.	Sun or Bartrack installation

Base software for web browser client

6 Bartrack VT-Terminal Client

The terminals used by Bartrack VT-terminal clients are VT220 or compatible. The terminals are connected to the same AXP node as where the server software runs.

Type	Name
Terminal	VT 320 or equivalent.

Base configuration for Bartrack terminal client

7 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
Barcode Labels	Zebra S500 or equivalent
Barcode Labels	Intermec 3240 or 3400 or equivalent

Base configuration for Bartrack printers

8 Bartrack Scanners

The scanners are connected to the desired client. Scanner may be connected through the keyboard or through the serial port. On VT, only keyboard connection is allowed.

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



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(not available for VT)

Base configuration for Bartrack scanners

9 Network

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

9.1 TCP/IP

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

Base configuration for network communication