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Target Environment Specification

Snitcher Asset Management®

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1 INTRODUCTION

1.1 General

This document defines the target environment for Snitcher Asset Management. All software components in the target environment will be specified by:

- Name and version. Note that the lowest required versions are specified; higher versions should work but is not tested.
- Support agreement signed.

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

1.2 Purpose

The purpose of this document is to make sure that:

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

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2 OVERVIEW

Snitcher mainly consist of the following components

- A database server
- An application server
- A logging server (optional)
- Client computers with or without bar code readers
- Label printers and document printers using network cards, print boxes or print server
- A network between the components above

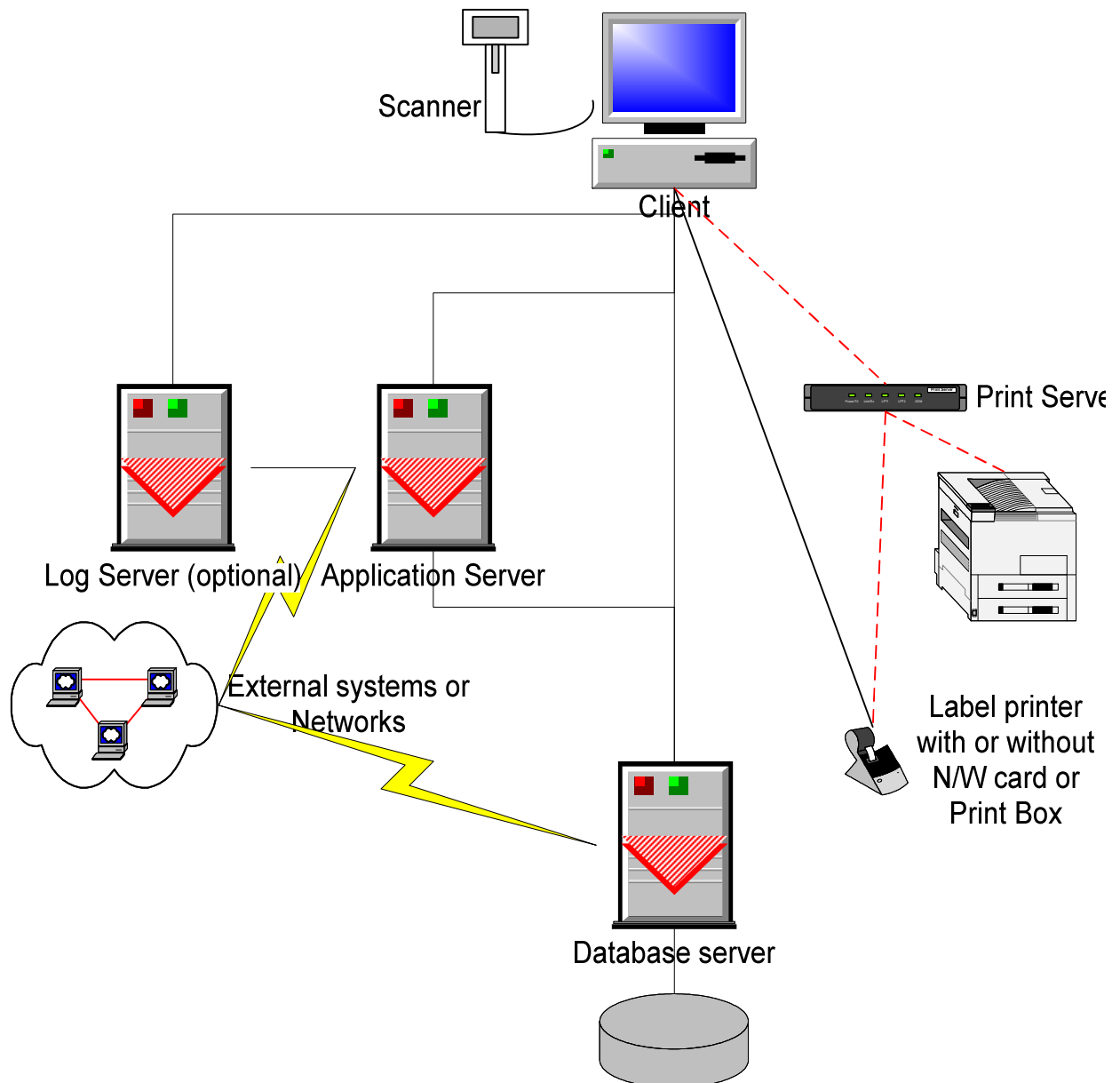


Figure 2-1 Schematic overview of Snitcher components



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3 DATABASE SERVER

The database server is only used to manage the Snitcher database. The specifications are valid for a database server dedicated for only Snitcher use. If more applications and databases are used on the same server the requirements increase. Contact Prevas for recommendations.

| Specification | Requirement |
|----------------------|--------------------------------------------|
| Operating System | Windows 2000 Server or Windows 2003 Server |
| CPU speed | 2,4 GHz |
| RAM memory | 1024 MB RAM |
| Hard disk free space | > 4 GB * |
| Database Manager | Oracle 9.2 or MS SQL Server 2000 |

Table 3–1 Database server requirements

*) It is strongly recommended to have at least two disks so the database and transactions logs can be divided on two separate disks. If more databases are used for production environment there should be one dedicated disk for each database. It is also recommended to not use the system disk for database usage to increase performance.

4 APPLICATION SERVER

The application server is used as a communication hub for all communication between clients and the database. The application server must be connected to the same network as the clients and database server. The application server holds all logging in Snitcher. Depending on the system setup there can also be some services running for Snitcher.

The specifications are valid for a application server dedicated for only Snitcher use. If more applications are used on the same server the requirements increase. Contact Prevas for recommendations.

| Specification | Requirement |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating System | Windows 2000 Server or Windows 2003 Server |
| CPU speed | 1,7 GHz |
| RAM memory | 512 MB RAM |
| Hard disk free space | 20 MB |
| Data provider | Oracle Data Provider ODP.Net 9.2.0.4 (only if Oracle Database Manager is used) |
| Runtime Environment | MS .Net Framework Redistributable 1.1 + Service Pack 1 (Note! There is a specific Service Pack 1 for Windows 2003 Server) How to determine installed version – See section <i>Miscellaneous</i> . |
| Web server | MS Internet Information Services (IIS) 5.0 or 6.0 (Note! if IIS 6.0 is used: Important 1! In the tab Web service extensions the setting ASP .NET v1.1 4322 must be changed from prohibited to allowed . Important 2! In the tab Web sites ,rightclick and choose Properties and then tab Service . Check the checkbox Run WWW service in IIS 5.0 isolation mode) |

Table 4–1 Application server requirements



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5 CLIENT

5.1 General

The clients must be connected to the same network as the Application Server.

| Specification | Requirement |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating system | MS Windows 2000 or Windows XP Professional |
| CPU speed | 1,7 GHz |
| RAM memory | 512 MB RAM |
| Hard disk free space | 20 MB |
| Runtime Environment | MS .Net Framework Redistributable 1.1 + Service Pack 1 (Note! There is a specific Service Pack 1 for Windows 2003 Server) How to determine installed version – See section <i>Miscellaneous</i> . |
| Monitor resolution | SVGA 1024*768, High colors (16 Bits) |

Table 5–1 Client requirements

5.2 Handheld computers

Handheld computers can be connected to the client computers.

| Producer | Model |
|----------|----------------------------------|
| Symbol | Symbol 8800 series or equivalent |
| Intermec | Intermec 740 |

Table 5–2 Scanners supported

5.3 Label Printer

5.3.1 Local printers

Label printers can be connected to the client computers. A printer cable is used for connection on parallel port on the client computers.

| Producer | Model |
|----------|--------------------------------------------------|
| Zebra | Any model supporting ZPL II programming language |

Table 5–3 Local printer models supported

5.3.2 Network printers

Label printers on the company network can be addressed for label printing from Snitcher. A network-connected printer requires a built in network card (recommended) or a print server box hardware attached.

| Producer | Model |
|--------------|---------------------------------------------------------------------------------------|
| Zebra | See Table 5–3, with or without network card built in |
| Print Box | (Optional) For Printers without built in network cards a Print box is required |
| Print server | (Optional) Replaces Print Box, but more sophisticated |

Table 5–4 Network printer models supported



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6 SECURITY

The system environment should be secured in a proper way, regarding redundancy, UPS and backup. This is necessary for avoiding unplanned downtime.

If the system is not within a closed network, a firewall must protect the system and antivirus software installed on all computers.

The security for the system environment can be designed in several ways. When signing a support contract with Prevas the security measures must be approved by Prevas.

7 MISCELLANEOUS

7.1 Determine .NET Framework installed version

To determine which versions of the .NET Framework are installed on a computer, follow these steps:

1. Open the folder %systemroot%\Microsoft.NET\Framework\v1.1.4322, and then locate the Mscorlib.dll file.
2. Right click the file, and then click Properties.
3. Click the Version tab, and then note the file version.

7.2 .Net Framework version numbers

| | |
|-------------------------------------------|---------------|
| Original RTM | 1.1.4322.573 |
| Service Pack 1 | 1.1.4322.2032 |
| Windows Server 2003 32-bit Service Pack 1 | 1.1.4322.2300 |

8 REVISION HISTORY

| Revision | Date | Comment | Responsible |
|----------|------------|-------------------------------------------|-------------|
| V1 | 2005-05-16 | New document. Converted from KS011s003a02 | KEGU |
| V2 | 2006-11-27 | Updates from the Snitcher TES | KEGU |