

Testnet 5	Date	2006-05-08	Ref	KS003A01/EN V7	Page	1(7)
	Responsible	Johan Hansson				
Public document	Title <b>Testnet 5 Target Environment Specification</b>					

## Target Environment Specification

# Testnet 5

### **Abstract**

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

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## 1 Introduction

### 1.1 General

This document defines the target environment for the Testnet 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. Distributor

This is done to make sure that we can reproduce the Testnet 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 Testnet product to perform according to its requirements.
2. Test activities are performed in the correct environment.
3. The target environment of any released Testnet 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

## 2 Target Environment Overview

The target environment of the Testnet product consists of:

- Testnet database server
- Testnet Workhorse server
- Testnet Windows client
- Testnet archive server
- Network between those computers.

The test stations and their set up are not included in Testnet.

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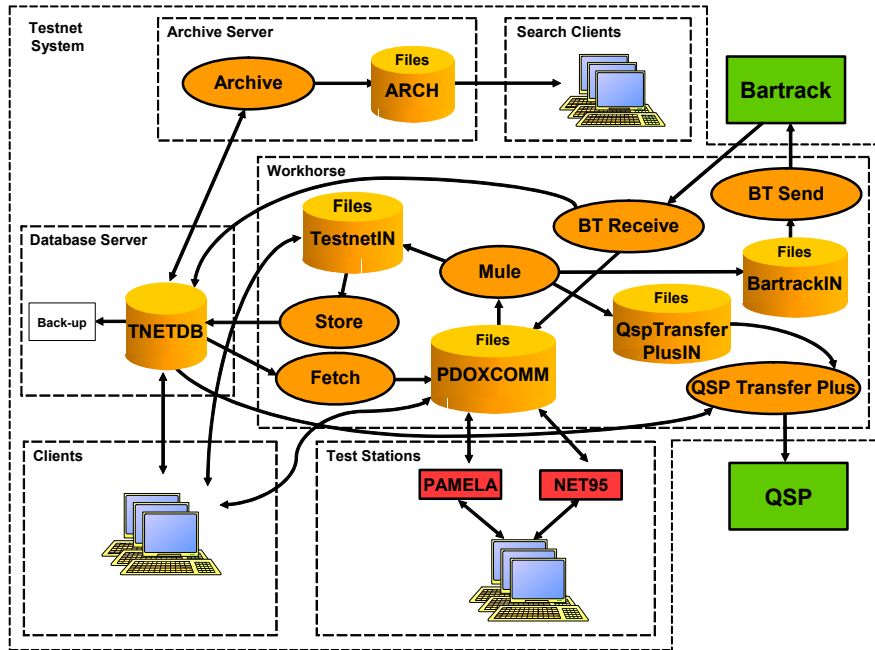


Figure 1: Overview of Testnet target environment

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### 3 Testnet Windows Server

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

#### 3.1 Hardware

The minimum configuration shall be at least:

Issue	Capacities and models
Processor	Pentium Xeon 2 GHz
Memory (RAM)	4 GB or more
Hard drive (local)	see 3.1.1
Network	100 Mbit at least

*Minimum configuration of server*

##### 3.1.1 Recommendation

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

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

The capacity of each of the disks 3-4 is calculated as follows:

Protocols in database	Size
Less than 100.000	36GB
Between 100.000 and 200.000	72GB
Between 200.000 and 300.000	144GB
etc.	

*Disk size calculation*

For optimal production reliability, we recommend the following hardware (in prioritized order):

1. Tape backup of complete system
2. UPS for uninterrupted power and controlled shutdown
3. RAID controller for fault tolerance

#### 3.2 Operating System

Tool Type	Tool Name	Distributed by
OS	Windows Server 2003	Microsoft

*OS version on the server*

#### 3.3 Software

Tool Type	Tool Name	Distributed by
Database	Oracle 9i, enterprise edition 9.2.0.0.0	Oracle
Network	TCP/IP	Microsoft

*Other required system software*

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### 3.4 Recommendations

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

## 4 Workhorse Server

### 4.1 Hardware

The minimum configuration shall be at least:

Issue	Capacities and models
Processor	Pentium Xeon 2 GHz
Memory (RAM)	2 GB or more
Hard drive (local)	72 GB
Network	100 Mbit at least

*Minimum configuration of Workhorse server*

### 4.2 Software

Tool Type	Tool Name	Distributed by
OS	Windows Server 2003	Microsoft
Middleware	BEA MessageQ 5.0	BEA system
Database manager	Oracle ODBC driver 8.1.7.4.0 (for Oracle 8i version 8.1.7)	Oracle
Database manager	Oracle Data Provider (ODP) for .NET 9.2.0.4.0	Oracle
Runtime Environment	.NET Framework 1.1	Microsoft

*Base software for Testnet Workhorse server*

## 5 PC Client

A PC client is not necessarily the same as a test station, but it can be. Testnet does *not* include software for test stations other than the Testnet client software that could be installed on test stations as well.

The minimum configuration shall be at least:

Issue	Capacities and models
Processor	Pentium 4, 1.5 GHz
Memory (RAM)	512 MB or more 1 GB recommended
Hard drive (local) free	36 GB or more 72 GB recommended

*Minimum configuration of Testnet client*

### 5.1 Software

You can choose any of the two operating systems. If you want to access the old R4 database, you'll need the ODBC driver for Rdb database as well.

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Tool Type	Tool Name	Distributed by
OS	Windows XP Professional	Microsoft
Reports	Excel 2003	Microsoft
Access software	ODBC 3.5	Microsoft
Database manager	Oracle ODBC driver 8.1.7.4.0 (for Oracle 8i version 8.1.7)	Oracle
Database manager	Oracle ODBC driver for Rdb 2.10.17	Oracle

*Base software for Testnet client*

## 6 Archive Server

The minimum configuration shall be at least:

Issue	Capacities and models
Processor	Pentium 4, 1.5 GHz
Memory (RAM)	512 MB or more 1 GB recommended
Hard drive (local) free	36 GB or more 72 GB recommended

*Minimum configuration of Testnet Archive server*

### 6.1 Software

Tool Type	Tool Name	Distributed by
OS	Windows XP Professional	Microsoft
Database manager	Oracle ODBC driver 8.1.7.4.0 (for Oracle 8i version 8.1.7)	Oracle

*Base software for Testnet Archive server*

## 7 Network

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

Test stations should connect to the workhorse and deliver the protocols in the pdoxcomm directory. This connection is *not* covered by Testnet.

### 7.1 TCP/IP

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

*Base configuration for network communication*