Target Environment Specification

Testnet 6

Abstract

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

Contents

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 application server
- Testnet Windows client
- Network between those computers.

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

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		Responsible Johan Hansson		
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3 Testnet Windows Server

The server has the following requirements, Windows Server 2003/2008. The Windows server requirements 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)	8 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: (36GB) 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 2003/2008	Microsoft

OS version on the server

3.3 Software

Tool Type	Tool Name	Distributed by
Database	Oracle 10g, enterprise edition 10.2.0.3	Oracle
Network	TCP/IP	Microsoft

Other required system software

3.4 Recommendations

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

4 Application Server

The server computer is a server with operating system Windows 2003/2008. The Windows server requirements below should be seen as a reference point.

4.1 Hardware

The minimum configuration shall be at least:

Issue	Capacities and models
Processor	Pentium Xeon 2 GHz
Memory (RAM)	8 GB or more
Hard drive (local)	72 GB
Network	100 Mbit at least

Minimum configuration of Workhorse server

4.2 Software Web Site

Tool Name	Distributed by
Microsoft Internet Information Server 5 or 6	Microsoft
Oracle Data Provider (ODP) for .NET 10.2.0.3	Oracle
.NET Framework 2.0 (32-bit)	Microsoft

4.3 Software

Tool Type	Tool Name	Distributed by
OS	Windows Server 2003/2008	Microsoft
Database manager	Oracle ODBC driver 10.2	Oracle
Database manager	Oracle Data Provider (ODP) for .NET 10.2.0.3	Oracle
Runtime Environment	.NET Framework 1.1 and 2.0	Microsoft
Middleware *	MS Message Queue (MS MQ)	Microsoft
MS Office	Excel 2003/2007	Microsoft

* Only to communicate with Bartrack on Windows platform

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, 2 GHz
Memory (RAM)	1 GB or more 2 GB recommended
Hard drive (local) free	72 GB or more

Minimum configuration of Testnet client

5.1 Software

Tool Type	Tool Name	Distributed by
OS	Windows XP/Vista	Microsoft
Reports	Excel 2003/2007	Microsoft
Runtime Environment	.NET Framework 2.0	Microsoft
Access software	ODBC 3.5	Microsoft
Database manager	Oracle ODBC driver 10.2.	Oracle
IE	Internet Explorer 7	Microsoft

Base software for Testnet client. The analysis tools are implemented as web application.

6 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.

6.1 TCP/IP

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

Base configuration for network communication