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## Background

The Tool Management System (hereafter TMS) is a client/server application based on Microsoft SQL Server 7.0/2000 database server technology. It relies on the availability of a SQL server/MSDE installation locally or somewhere on the network. Consequently the installation of TMS is more complex than a single tier application that runs on a single PC but it is very flexible in the way database access and security can be implemented to meet the requirements of every company. See the document 'TMS database implementations' that describes all possible ways to install the TMS database in terms of security and management. The setup of TMS can be divided into 2 parts: setup of the TMS database (and perhaps the database server) and the installation of TMS on a local workstation.

## TMS database installation

If there isn't a Microsoft SQL Server 2000 installation available within your company you can use the MSDE 2.0 installer (**sql2kdesksp3.exe** in the database directory on the TMS CD) to install it locally or on a server.

Use the enterprise manager to restore the empty TMS 2.14 database to your database server with the desired database name (for instance TMS or TMSROT). The empty TMS 2.14 database backup can be found on the TMS CD in **database\TMS\_2\_14\_empty\_db.bak**. This file is a SQL Server 2000 backup, call Object Software ontwikkeling BV if you need to restore to a SQL Server 7.0 database server.

After you have restored the database you have to set user access rights to the TMS database by linking LAN LAN groups or UserIDs to the **TMSUserRole** role within TMS. It is preferred that you create a LAN user group and grant this group access to the database and give it the **TMSUserRole** role. You can then maintain access to the TMS database by adding and removing users to and from this LAN group.

Using enterprise manager to restore a database and set access rights is by far the easiest option. If you don't have Enterprise Manager (not included with MSDE) you can use the RESTORE DATABASE command with OSQL to restore databases and the commands **sp\_grantlogin**, **sp\_adduser** and **sp\_addrolemember** commands to setup database access. (see SQL documentation on how to use these commands).

## TMS client installation and configuration

### Installation

There are 2 ways to install TMS on a workstation.

1. Use the file **install\TMS\_2\_14.msi** on the TMS CD to install TMS on the workstation. TMS relies on Microsoft Data Access Components v2.7 (MDAC) to communicate with the database server. MDAC 2.7 is available on every Windows XP gold (pre SP1, SP2) installation. If you're not installing on Windows XP or if you are not sure which version is installed you can install the latest version (v2.8) of MDAC from **install\MDAC28\_EN.exe**.
2. If you cannot or don't want to use a Windows Installer (MSI) file there is also the option to install TMS from **install\TMS\_2\_14\_installer.exe**. This is a classic setup program to install TMS.

The setup program or msi file will install all the necessary components to your PC. If you run TMS from a PC that has not installed SQL Server locally, you can run the file **install\SQLDMO.msi** which will install the Microsoft SQL Data Management components.

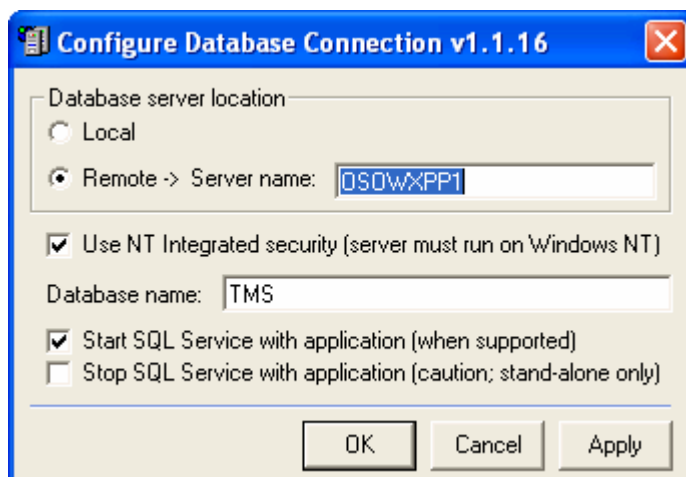
Copy the files TMS.ini and TMSAddOn.ini from the **install** directory on the CD to the TMS program directory (i.e. c:\program files\TMS) to simplify configuration (see Configuration later on). (not required).

Additionally, you can install the SysTools 2001 program onto the workstation with **install\systools.exe**. SysTools is a program that can be used to upload new barcodereader software onto the barcodereaders.

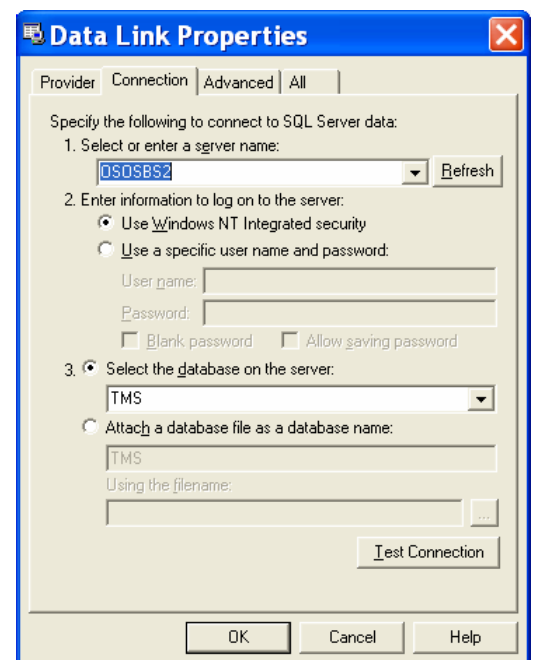
You can also copy TMS add-ons located in **Additional\TMSAddOns** to the TMS program directory. See the file **Additional\TMSAddOns\info.txt** for a description of each add-on.

### Database connection configuration

In order to connect the TMS application to the TMS database a configuration file has to be created in the TMS program directory. This database configuration can either be a standard .UDL file (unified data link) or an OSO configuration file (.INI file). The OSO configuration file can contain special OSO application options and can be created or edited with the **DbConnectCfg** or Database Connector program installed in the TMS program directory. A sample **TMS.INI** that can be configured with **DbConnectCfg** is available on the CD in the **install** directory. You can also edit this INI-file directly with notepad. A sample **TMS.udl** file is also available.



DbConnectCfg screenshot



Edit Datalink (udl) screenshot

If you use **DbConnectCfg** to configure the database you must check the Database Server name as 'local' when the database server is running locally on the PC (MSDE). Or enter the name of the server Microsoft SQL Server is running on under 'Remote'. Check the 'use NT Integrated security' option when the Windows Authentication security mode is enabled (preferred). Enter the name of the TMS database under 'Database name'. The options 'Start SQL Service with application' and 'Stop SQL Service with application' are supported by TMS but use them only if TMS is running with MSDE. Specifically the 'Stop SQL Service with application' option should only be selected in a stand-alone situation.

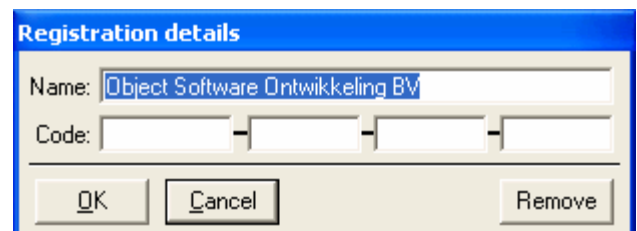
TMS can be configured to run with multiple TMS databases (though not simultaneously on one workstation). This is particularly useful in situation where the TMS client is run from a network share but is used on different sites. To use this feature you create a TMS.INI file for each TMS site, each with a different filename. With the /INI command line option you can force TMS to use a different configuration file than the default TMS.INI or TMS.UDL file. For example you can create a shortcut with the command line **N:\TMS\tms.exe /ini TMS\_Fawley** and the starting directory **N:\TMS**. TMS will use the file **TMS\_Fawley.ini** or **TMS\_Fawley.udl** to set its database connection configuration. You may include the extension in the parameter.

You can always check which connection file, server and database TMS uses by clicking on the little expand arrow ► on the TMS Splash screen (Help→about). Under **Active Configuration** you can see all the parameters used. When configured wrong TMS automatically expands the splash screen at startup.



### Site registration

After you have installed TMS and configured the database access parameters you have to register each TMS workstation with a registration name and an activation code. This registration name is shown in the TMS title bar and printed on each TMS report for identification of the origin of the report. Registration must be done only once per machine (not for each user). You can install the TMS client on as many workstations as you like but you can only use as many TMS clients as your license allows at the same time (for example: 10 TMS installations and a license for 2 workstations allows only 2 people to work with TMS simultaneously). The registration name and code has been send to the tool room site manager who ordered the TMS system.



### Site configuration

Most settings of TMS can be configured from within the TMS user interface. One site wide option however must be set before new data is entered on the TMS database. You must set the numeric length of employee code before any employee data is entered. TMS allows employee IDs to be either numeric or alphanumeric but when numeric codes are used they are converted to a fixed length number filled to the left with zeros so they can be scanned by the barcode reader or entered on the keypad.

To set this value you can either use the **SetNumEmployeeLen.sql** script in the **\database** directory or use the **AppConfig** program in the **\Additional\AppConfig** directory both on the TMS CD.

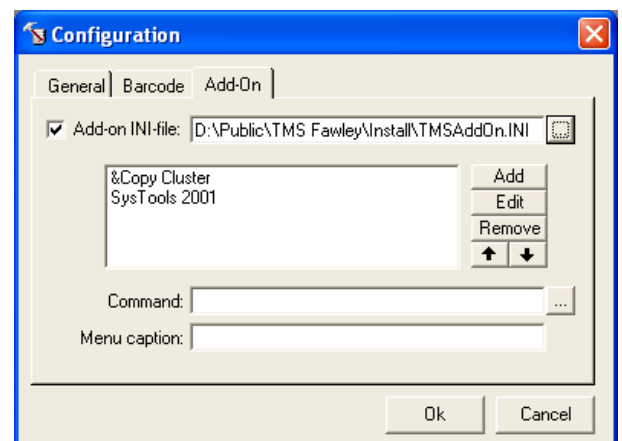
The script sets this value to '6' but you can edit the script with notepad and enter any value between 2 and 10. To run the **SetNumEmployeeLen.sql** script start TMS and select Help→Support→Execute SQL Script, Click 'yes', select the script and click on the 'Go' button or run I/SQLW (part of SQL Server).

To use the **AppConfig** program edit the AppConfig.udl file to point to the correct databaseserver and database and change the value '**NumEmployeeLen**' to something between 2 and 10 as required.

### Add-On configuration

Add-ons are used to add features to TMS that are specifically designed for a customer or from 3<sup>rd</sup> parties. It also allows adding new features to TMS without having to completely update the TMS program which is sometimes difficult in large organisations with rigorous change management procedures.

A user can configure which TMS Add-ons will be used in the configuration screen (File→Configuration, Add-On tab). This add-on configuration is per default stored in the TMS AddOn.INI file in the TMS program directory. This means that an administrator can pre-configure TMS add-ons by configuring this default file. For version 2.14 it is recommended to pre-configure the Copy Cluster add-on and the Systools program.



### **Barcode reader configuration**

Select the appropriate COM port to which the barcode reader docking station is connected in the TMS configuration screen. Baud rate should be 9600bps for Formula Wizard readers. All other COM setting (parity bits etc) are preconfigured within TMS.

### **Label printer configuration**

Install the windows printer driver for the label printer you use with TMS. If you bought a label printer along with TMS this will probably a Brother P-Touch PC series printer. For TMS installing the Windows printer driver only is enough to print Code 3 of 9 (Code 39) labels. You do not need (but of course you can) to install the monitoring and additional label printing programs. Select the label printer's printer driver as your label printer in the TMS configuration screen (File→Configuration, tab Barcode). **Do not set the label printer as your default printer within windows;** TMS will select the label printer when printing labels and use your default page (A4) printer for all other prints (reports). You must configure the brother printer driver to the appropriate label width used (for example 18 mm or 24 mm) and set a printing length. If you use only globally unique company numbers for your serialised items a label length of 60mm or 70mm will be appropriate in most cases. If you also use company numbers that are not globally unique, i.e. company numbers that are unique within a product range but not entirely unique within TMS, then TMS will produce labels containing both product code and Company number. The label length should then be set to 120mm or more. Experiment with various settings and font sizes to get the best result.

## **Known problems**

- Shortcuts in the start menu created by setup programs are sometimes not valid and don't work. If so recreate them manually from the TMS program directory.
- The barcode fonts *Free 3 of 9* and *Free 3 of 9 extended* are installed into the Windows fonts directory by the setup programs. Due to a bug in the installation programs they are however not always correctly recognized by Windows as installed font until you reinstall them. If TMS barcode reports like 'Barcode list of lends per department' does not show barcodes, the fonts are not installed correctly. Use the font installer in the control panel to reinstall these fonts from the **additionalfonts** directory on the TMS CD.

## **Support**

For installation and end-user support contact Object Software ontwikkeling BV in the Netherlands

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