@ptitude Observer

Part No. 32170700 Revision H Observer 9.1

Installation Manual

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Requirements

1

@ptitude Observer can be used in a network of unlimited number of users. However, there are minimum requirements for computers running SKF @ptitude Monitoring Suite.

SKF @ptitude Monitoring Suite contains the following components;

- @ptitude Observer
- @ptitude Observer database administrator
- @ptitude Observer monitor
- @ptitude Observer on-line device configurator
- @ptitude Observer data pump
- @ptitude IMx-M Manager

To be able to install SKF @ptitude Monitoring Suite, check the hardware and operating system requirements listed below. **Note:** The requirements must be fulfilled. Otherwise, we advise not to install the software.

Hardware Requirements

- One available Ethernet network connection for on-line systems
- A Pentium IV, 2.0 Ghz or higher CPU
- A recommended minimum of 2.0 GB RAM
- Mouse, track-ball, digital board or similar
- Graphics chip capable of displaying 16 bit colors with a minimum resolution of 1 024 x 768. For optimal experience when using @ptitude Observer, it is recommended to have a resolution of 1 920 x 1 200 or more.
- A DVD ROM drive for installation
- Free space on a hard disk, 500 MB (client) and 1.2 GB (database server) excluding machine and measurement data. The space necessary for the database depends on the amount of stored data.
- A backup system is recommended

Operating System Requirements

SKF @ptitude Observer supports the following operating systems;

- Microsoft Windows XP Professional with Service Pack 3
- Microsoft Windows 2003 Server with Service Pack 1
- Microsoft Windows 2008 Server
- Microsoft Windows 2012 Server
- Microsoft Windows Vista
- Microsoft Windows 7
- Microsoft Windows 8

2

General Guideline

In order to have a properly functioning SKF @ptitude Observer, follow the listed general guideline on installation and setup.

- 1. Insert the SKF @ptitude Observer DVD.
- 2. Install a database engine which will be used by @ptitude Observer.

The @ptitude Observer system uses Microsoft SQL Server 2012 as the recommended database engine, but it is also compatible with earlier versions such as SQL Server 2005 and 2008.

Included in the SKF @ptitude Observer DVD are a royalty free version of SQL Server called Microsoft SQL Server Express. The royalty free version can be used for databases with sizes up to 10 GB.

• To install SQL Server Express version, follow the instructions in <u>SQL Server</u> <u>Express Installation</u>.

If you were to install a different version of SQL Server other than Express, check the SQL Server documentation for installation instructions.

3. Install **SKF @ptitude Monitoring Suite** components by following the instructions in <u>@ptitude Observer Suite Installation</u>.

SKF @ptitude Monitoring Suite contains the following components:

- **@ptitude Observer** is for data management and analysis of measurement data for condition monitoring. @ptitude Observer runs on all clients.
- **@ptitude Observer database administrator** is the tool for administrating the @ptitude Observer databases.
- **@ptitude Observer monitor** is the server service which works as the connector between IMx system, database, and @ptitude Observer clients. Detailed information can be found in <u>@ptitude Observer Monitor Service</u>.
- **@ptitude Observer Online device configurator** is a tool which allows to set the network configuration and identification for the on-line device. It also allows to view what the on-line device is measuring right now, clear measurement data, show current measurement configuration and synchronize the time.
- **@ptitude Observer data pump** allows to export and import @ptitude Analyst XML files.
- **@ptitude IMx-M Manager** is an external tool used to configure the IMx-M Protection system.
- 4. Install @ptitude Observer database(s).

To be able to run @ptitude Observer, at least one database must be installed.

The database must be compatible to the latest installed @ptitude Observer version.

The installation of a new database or upgrading of an existing database is done through @ptitude Observer Database administrator.

If @ptitude Observer Database administrator component has not been installed, repeat step 3 and make sure that you select @ptitude Observer Database administrator at Custom Setup screen.

- Start @ptitude Observer Database administrator by clicking on the shortcut on the start menu located under **Programs \ SKF @ptitude Monitoring Suite X.Y \ @ptitude Observer Database administrator**.
- The instruction for installing Observer database is found in <u>Install Observer</u> <u>Database</u> section. In addition, the further detailed information are found in **Observer Database Administrator User Manual**.

The database settings are stored in a connection file for each database.

- 5. Set up @ptitude Observer with language and register with the license key.
 - Start @ptitude Observer by clicking on the shortcut on the start menu located under Programs \ SKF @ptitude Monitoring Suite X.Y \ @ptitude Observer.
 - Select a language to use.
 - Register with the license key.

It is possible to change the language and license key after the initial settings have been made. For more information, refer to <u>Edit Observer Settings</u>.

6. Create a connection between @ptitude Observer and database(s).

The connection between @ptitude Observer and database(s) is described in detail in Getting Started section of @**ptitude Observer User Manual**.

7. Set up the configuration of the **monitor settings**.

To be able to use @ptitude Observer as an on-line system, the communication and database storage are performed by the @ptitude Observer monitor service. The configuration of the monitor settings are described in <u>@ptitude Observer Monitor</u> <u>Service</u>.

If @ptitude Observer monitor component has not been installed, repeat step 3 and make sure that you select @ptitude Observer monitor at Custom Setup screen.

8. Set up @ptitude Observer monitor computer.

If you use a PC as the @ptitude Observer monitor computer, then you need to configure<u>IMx /MasCon Network Settings</u> and activate <u>Time synchronization</u>.

9. Upgrade @ptitude Observer database(s).

If you have any databases which you have used with a previous version of @ptitude Observer, you need to upgrade these databases to the latest version in order to use them with the new version of @ptitude Observer. Please note that it is possible to run several different versions of @ptitude Observer software on the same computer. For more information, refer to <u>Software Upgrade</u>.

3

SQL Server Express Installation

Insert the SKF @ptitude Observer DVD. If the installation program does not start, run the file "Setup1.exe" from the DVD.

2. Click Microsoft SQL Server.



Figure 3-1: Database server installation start

3. First, check the prerequisites before installing SQL Server Express 2012.

The prerequisites are the system requirements in order to be able to install SQL Server Express 2012. You can find out which version of Windows Installer, .NET Framework and Windows PowerShell are installed in your computer by checking "Control Panel/Add or Remove Hardware".

- Windows Installer 4.5 is required in order to install SQL Server Express 2012. If you don't have the Windows Installer 4.5 installed, click the link **Windows Installer 4.5** and follow the installation guides.
- A minimum of .NET Framework 3.5 SP1 is required in order to install SQL Server Express 2012. If you don't have .NET Framework 3.5 SP1 installed, click the link **.NET Framework 4** and follow the installation guides.
- Windows PowerShell 1.0 is required for Management studio express which is a free tool from Microsoft to administer SQL Server databases. However, this tool is not required to run @ptitude Observer.



If the prerequisites are met, click the link SQL Server Express 2012.

Figure 3-2: SQL server express 2012 installation

4. On the License Terms screen, make sure to read through the license terms and agree to them. Click **Next** to continue the installation.

1	SQL Server 2012 Setup	- 🗆 🗙
License Terms To install SQL Server 2012, you	nust accept the Microsoft Software License Terms.	
License Terms Product Updates Install Setup Files	MICROSOFT SOFTWARE LICENSE TERMS MICROSOFT SQL SERVER 2012 EXPRESS These license terms are an agreement between Micro live, one of its affiliates) and you. Please read them. T which includes the media on which you received it, if a • updates, • supplements, • Internet-based services, and • supnort services	hey apply to the software named above,
	 ✓ I accept the license terms. ✓ Send feature usage data to Microsoft. Feature usage data to Microsoft. Feature usage data configuration and how you use SQL Server and its compression of the Microsoft SQL Server 2012 Privacy Statement for magnetic set to the Microsoft SQL Server 2012 Privacy Statement for magnetic set to the Microsoft SQL Server 2012 Privacy Statement for magnetic set to the Microsoft SQL Server 2012 Privacy Statement for magnetic set to the Microsoft SQL Server 2012 Privacy Statement for magnetic set to the Microsoft SQL Server 2012 Privacy Statement for magnetic set to the Microsoft SQL Server 2012 Privacy Statement for magnetic set to the Microsoft SQL Server 2012 Privacy Statement for magnetic set to the Microsoft SQL Server 2012 Privacy Statement for magnetic set to the Microsoft SQL Server 2012 Privacy Statement for magnetic set to the Microsoft SQL Server 2012 Privacy Statement for magnetic set to the Microsoft SQL Server 2012 Privacy Statement for magnetic set to the Microsoft SQL Server 2012 Privacy Statement for magnetic set to the Microsoft SQL Server 2012 Privacy Statement for magnetic set to the Microsoft SQL Server 2012 Privacy Statement for magnetic set to the Microsoft SQL Server 2012 Privacy Statement for magnetic set to the Microsoft SQL Server 2012 Privacy Statement for magnetic set to the Microsoft SQL Server 2012 Privacy Statement for magnetic set to the Microsoft SQL Server 2012 Privacy Statement for magnetic set to the Microsoft SQL Server 2012 Privacy Statement for magnetic set to the Microsoft SQL Server 2012 Privacy Statement for magnetic set to the Microsoft SQL Server 2012 Privacy Statement for magnetic set to the Microsoft SQL Server 2012 Privacy Statement for magnetic set to the Microsoft SQL Server 2012 Privacy Set to	
		< Back Next > Cancel

Figure 3-3: SQL Licence terms

5. If the SQL Server installer discovers that there are updates available to SQL Server, it will display the Product updates screen. If this screen is displayed it is recommended that the SQL Server product updates are included. Click **Next** to continue.

1	SQL Server	2012 Setup	- 🗆 🗙
Product Updates Always install the latest update	s to enhance your SQL Server security	and performance.	
License Terms Product Updates	☑ Include SQL Server product upda	ites	
Install Setup Files	Name	Size (MB)	More Information
	SQL Server 2012 SP1 GDR Produc	120	KB 2793634
	SQL Server 2012 SP1 GDR Setup	22	<u>KB 2793634</u>
	2 updates (142 MB) found online. The Setup updates (22 MB) will be i Read our privacy statement online Learn more about SQL Server produ		k Next.
			< <u>B</u> ack <u>N</u> ext > Cancel

Figure 3-4: SQL product updates

6. The setup will now download and install setup	files.
--	--------

an update for SQL Server Setup bading the Setup files: 13 MB of or product updates oad Setup files Setup files Setup files	22 MB downloaded (56 %) 22 MB downloaded (56 %) Status Completed In Progress Not started Not started Not started	
or product updates oad Setup files Setup files	Status Completed In Progress Not started	
or product updates oad Setup files Setup files	Status Completed In Progress Not started	
oad Setup files Setup files	Completed In Progress Not started	
oad Setup files Setup files	In Progress Not started	
Setup files	Not started	
Setup files	Not started	

Figure 3-5: SQL install setup files

7. When you are prompted to select which features to install, make sure that you choose to install at least the options **Database Engine Services**, **Management Tools Basic** and **Management Tools – Complete**. Click **Next**.

1	SQL Server 2012 Setup	_ 🗆 🗙
Feature Selection Select the Express features to in	stall. Features:	Feature description:
Setup Support Rules Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Error Reporting Installation Configuration Rules Installation Progress Complete		Preconfiguration and operation of each instance feature of a SQL Server instance is isolated from other SQL Server instances. SQL Server instances can operate side-by- side on the same computer. Prerequisites for selected features: Already installed: - Microsoft NET Framework 4.0 - Windows PowerShell 2.0 To be installed from media: - Microsoft Sual Studio 2010 Shell Windows feature(s) to be turned on: - Microsoft INET Framework 3.5
	Select All Unselect All Shared feature directory: C:\Program Files\Microsoft	SQL Server\
	< <u>B</u> ack	Next > Cancel Help

Figure 3-6: SQL installation feature selection

8. When the Instance configuration screen is displayed, select the Default Instance and click **Next**.

Instance Configuration Specify the name and instance ID for the instance of SQL Server. Instance ID becomes part of the installation path. Setup Support Rules Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Instance goot directory: C:\Program Files\Microsoft SQL Server\ Installation Configuration Rules Installation Progress Complete	
Feature Selection O Named instance: MSSQLSERVER Installation Rules Instance Configuration Instance [D: MSSQLSERVER Disk Space Requirements Instance [D: MSSQLSERVER Server Configuration Instance got directory: C:\Program Files\Microsoft SQL Server\ Database Engine Configuration Instance got directory: C:\Program Files\Microsoft SQL Server\ Installation Configuration Rules SQL Server directory: C:\Program Files\Microsoft SQL Server\MSSQL11.MSSQLSERVER	
Disk Space Requirements Instance [D: MSSQLSERVER Server Configuration Instance [D: Instance [D: Database Engine Configuration Instance goot directory: C:\Program Files\Microsoft SQL Server\ Error Reporting	
Complete Instance Name Instance ID Features Edition Version 	

Figure 3-7: SQL installation instance configuration

9. On the Server Configuration screen, click Next.

1	SQL Server 2	012 Setup			×
Server Configuration Specify the service accounts and					
Setup Support Rules Feature Selection Installation Rules	Service Accounts Collation	ise a separate account for each	SQL Server servic	e.	
Instance Configuration	Service	Account Name	Password	Startup Type	2
Disk Space Requirements	SQL Server Database Engine	NT AUTHORITY\SYSTEM		Automatic	~
Server Configuration	SQL Server Browser	NT AUTHORITY\LOCAL		Disabled	~
Database Engine Configuration Error Reporting Installation Configuration Rules Installation Progress Complete					
		< <u>B</u> ack <u>N</u> ext	> Cance	el He	lp .:i

Figure 3-8: SQL installation server configuration

10. On the Database Engine Configuration Screen, select Mixed Mode authentication, and choose a System Administrator password. In addition, SQL Server 2012 needs to have a SQL Server administrator specified. If you don't know which account to pick, it is recommended that you click the "Add Current User" button.

1	S	QL Server 2012 Setup	- • ×
Database Engine Config Specify Database Engine auther Setup Support Rules		administrators and data directories.	
Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Error Reporting Installation Configuration Rules Installation Progress Complete	Specify the authenti Authentication Mod <u>Wi</u> ndows authent <u>Mixed Mode (SQ</u>	ication mode and administrators for the Database Engi le tication mode L Server authentication and Windows authentication) d for the SQL Server system administrator (sa) account	
		< <u>B</u> ack <u>N</u> ext >	Cancel Help

Figure 3-9: SQL installation database engine configuration

11. On the error reporting screen, click Next.

1	SQL Server 2012 Setup – 🗆 🗙
Error Reporting Help Microsoft improve SQL Se	
Setup Support Rules Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Error Reporting Installation Configuration Rules Installation Progress Complete	Specify the information that you would like to automatically send to Microsoft to improve future releases of SQL Server. These settings are optional. Microsoft treats this information as confidential. Microsoft may provide updates through Microsoft Update to modify feature usage data. These updates might be downloaded and installed on your machine automatically, depending on your Automatic Update settings. See the Microsoft SQL Server 2012 Privacy Statement for more information. Read more about Microsoft Update and Automatic Update. Send Windows and SQL Server Error Reports to Microsoft or your corporate report server. This setting only applies to services that run without user interaction.
	< <u>B</u> ack <u>N</u> ext > Cancel Help

Figure 3-10: SQL installation error reporting

12. SQL Server will now install.

8	SQL Server 2012 Setup – 🗆	×
Installation Progress		
Setup Support Rules Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Error Reporting Installation Configuration Rules Installation Progress Complete	Creating servicing cache folder.	
	Next > Cancel Het	P

Figure 3-11: SQL installation in progress

13. After the installation is complete, click **Close**.

1	SQL Server 2012 Set	up –	
Complete Your SQL Server 2012 installat	ion completed successfully with product updates.		
Setup Support Rules Feature Selection	Information about the Setup operation or pos	sible next steps:	
Installation Rules	Feature	Status	^
	Client Tools Backwards Compatibility	Succeeded	
Instance Configuration	Client Tools SDK	Succeeded	
Disk Space Requirements	Management Tools - Complete	Succeeded	
Server Configuration	Client Tools Connectivity	Succeeded	
Database Engine Configuration	Management Tools - Basic	Succeeded	
Fror Reporting	Matahare Engine Servicer	Succeeded	`
nstallation Configuration Rules			
	Details:		
nstallation Progress	Details:		
Complete	Viewing Product Documentation for SQL Server		
	been installed. By default, the Help Viewe SQL Server, you can use the Help Library		ing n to
	C:\Program Files\Microsoft SQL Server\110\Se \Summary LabDator 20140409 135834.txt	2	
		Close	Help

Figure 3-12: SQL installation complete

@ptitude Observer Suite Installation

- Insert the SKF @ptitude Observer DVD. If the installation program does not start, run the file "Setup1.exe" from the DVD.
- 2. Click @ptitude Observer.



Figure 4-13: @ptitude Observer installation start

3. InstallShiled® Wizard will guide you through the @ptitude Observer Suite installation. Click **Next** to continue.



Figure 4-14: InstallShield Wizard for @ptitude Observer installation

4. Mark "I accept the terms in the license agreement" and click Next.

License Agreement Please read the following license agreement carefully.	
End-User License Agreement	
THIS END-USER LICENSE AGREEMENT (this "Agreement") is entered into by and between SKF Condition Monitoring, Inc. and/or SKF Condition Monitoring Center AB (hereinafter referred to collectively as the "Licensor") and any person or business that executes this Agreement by clicking the "I agree" icon at the end of this Agreement or by accessing, using, or installing the Software ("Licensee" or "You"). Licensor and Licensee shall be referred to collectively in this Agreement as the Parties.	•
I accept the terms in the license agreement Print I do not accept the terms in the license agreement Print	
InstallShield <u>Back N</u> ext > Cancel	

Figure 4-15: @ptitude Observer installation license agreement

5. Check the destination folder. If it was set to the correct folder, click **Next** to continue. Otherwise, click on Change to install to a different folder.

Destinati	on Folder		
	ext to install to this folder, or click Char nt folder.	nge to install to a	
Ø	Install SKF @ptitude Observer 9.1 to: C:\Program Files (x86)\SKF\Observer	9.1\	<u>C</u> hange
InstallShield –			
	< <u>B</u> ack	Next >	Cancel

Figure 4-16: @ptitude Observer installation destination folder

6. Choose a setup type and click **Next** to continue.

Client installation and **Server installation** will install all the necessary components for you. Go to step 8.

However, **Full / Custom installation** requires you to choose which components to install as shown in the next step.

Setup Type Choose the setup type that best suits your needs.				
Please sele	ct a setup type.			
C Client In	stallation			
1	Select this option to install the client components of the @ptitude Monitoring Suite.			
🔿 Server I	nstallation			
1	Select this option to install the server components of the @ptitude Monitoring suite.			
🖲 Full / Cus	stom installation			
1	Choose which program features you want installed. For stand alone installations, this option should be selected.			
InstallShield				
	< <u>B</u> ack <u>N</u> ext > Cancel			

Figure 4-17: @ptitude Observer installation setup type

7. Select programs to install, then click **Next**. You may select program(s) to install by changing the installation option. There are different installation options as shown below.

Custom Setup Select the progra	am features you v	vant installed.		C	
Click on an icon in	the list below to a	change how a fe	ature is installe	d.	
Click on an icon in the list below to change how a feature is installed.					
Install to: C:\Program Files (InstallShield	x86)\SKF\Observe	er9.1\		<u>C</u> hange	
<u>H</u> elp					
Figure 4-	Figure 4-18: Example of @ptitude Observer installation custom setup				
Custom Setup Select the progra	Custom Setup Select the program features you want installed.				
Click on an icon in	the list below to o	change how a fe	ature is installe	d.	
Image: Sector of the sector					
× This feature will not be available.					
•					
Install to: C:\Program Files (InstallShield	x86)\SKF\Observe	er9.1\		<u>C</u> hange	

Figure 4-19: @ptitude Observer installation custom setup options

< <u>B</u>ack

<u>N</u>ext >

Space

<u>H</u>elp

Cancel

8. @ptitude Observer will now install.

_	SKF @ptitude Observer 9.1 ogram features you selected are being installed.
1	Please wait while the InstallShield Wizard installs SKF @ptitude Observer 9.1. This may take several minutes.
	Status:
	Copying new files
InstallShield –	
	< Back Next > Cancel

Figure 4-20: @ptitude Observer installation in progress

9. Click Finish to complete the installation and exit InstallShield® Wizard.

InstallShield Wizard Completed The InstallShield Wizard has successfully installed SKF @ptitude Observer 9.1. After you Click Finish, the installer will continue to install Third Party Components.
< <u>B</u> ack <u>Finish</u> Cancel

Figure 4-21: @ptitude Observer installation finish

After the InstallShield wizard has completed, additional third party component may be installed automatically by the installer. This may take a few minutes.

5

Install Observer Database

After the @ptitude Observer suite has been installed, it's necessary to connect the suite to an Observer database.

If an Observer database already exists, the database needs to be <u>upgraded to the</u> <u>version of the @ptitude Observer suite</u> installed.

If there is no Observer database existing, it is necessary to <u>install a new Observer</u> <u>database</u>.

Note - For more information about @ptitude Observer database administrator software, refer to **Observer Database Administrator user manual**.

Upgrade an Existing Observer Database

- 1. Start the @ptitude Observer database administrator software by clicking on the shortcut on the start menu.
- 2. Log in to the database server using the login credentials specified when installing the SQL server.

💌 @ptitude Observer Databa	se Administra	ator	
<u>File Server D</u> atabase <u>H</u> e	lp		
Databases			
Name	Version		
B Observer	8,5		
😸 Observer-trubine	8,4		
		1	

Figure 5-22: Example of Observer databases

- 3. In the database list, select the database to be upgraded and click the menu option **Database / Upgrade selected databases**.
- 4. Browse for the database definition file which contains information about how to upgrade the database and click OK. The definition file can be found in the folder \NewVer\Database administrator on the Observer DVD.
- 5. After the procedure is finished, the selected database is upgraded and the @ptitude Observer database administrator software can be closed.

Install a New Observer Database

- 1. Start the @ptitude Observer database administrator software by clicking on the shortcut from the start menu.
- 2. Log in to the database server using the login credentials specified when installing the SQL server.
- 3. Click on the menu option Server / Create new database.

Create database	
Name:	Observer
Database file Location:	c:\Program Files\Microsoft SQL Server\MSSQL10_50.MSSQLSERVER\MS
	Create <u>C</u> ancel

Figure 5-23: Example of Observer create database

- 4. Select a database name (default is Observer) and select where the database files should be stored (default is SQL server data directory).
- 5. Click on **Create** button.

Important - The database name cannot be the same as an already existing database.

- 6. During the installation, you will be asked if you want to install bearings and diagnosis rules. Click **Yes**.
- 7. You will be prompted for the location of the bearing file to import, please browse to the file bearing.brg which exists in the folder NewVer\Database administrator on the Observer DVD.
- 8. At the end of the Create database procedure you will be asked which measurement units to use for the standard diagnosis in Observer. Select the measurement units you want to use and click the **Update** button.

6

@ptitude Observer Monitor Service

To be able to use @ptitude Observer as an on-line system, the communication and database storage are performed by the @ptitude Observer monitor service. There can be several @ptitude Observer monitor services installed at the same time.

 To start a @ptitude Observer monitor service, start the @ptitude Observer Monitor Manager software by clicking on the shortcut on the start menu located in Programs\SKF @ptitude Monitoring Suite X.Y\@ptitude Observer Monitor Service Manager.

@ptitude Observer Monitor Man	ager 9.1				
File Action Help					
🏡 🕨 🔳 🔁 🚿 🌄					
Registered Monitor Services On Local	Computer				
Name	Version	Startup method	Port	Status	Executable path
🚳 Observer85	8.5.0	Automatic	1000	Running	C:\Program Files\SKF\Observer8.5\M
<					3

Figure 6-24: Example of @ptitude Observer Monitor Server Manager

Observer Monitor Service Manager screen lists all the registered monitor services on the local computer.

Action allows the following interfaces;

- New allows to add new monitor services on the local computer.
- **Properties** allows to edit the properties of the already registered services through Connection interface.
- Delete deletes the selected registered service.
- Start starts the selected monitor service.
- **Stop** stops the selected monitor service.
- **Monitor Service Viewer** displays events, connections and status of the selected monitor service.
- View Log File allows to review a log file of the selected monitor service.
- **Refresh** updates the list with most current information.
- 2. To register a new monitor service, click a menu option Action, then New.

Connection	×
Name	Observer
Path:	C:\Program Files (x86)\SKF\Observer9.1\Monitc
Version:	9.1.0
Database connec	tion settings
Name:	(local)
Authentication:	SQL Server authentication
User name:	sa
Password:	
Parameters:	
Database	Observer
Service settings	
Port:	1000
Start delay:	20 s
Startup method:	Automatic
	Ok Cancel

Figure 6-25: Example of @ptitude Observer Monitor Service - connection

- **Name** is a unique name which has to be given to the service. It will be used to identify the registered database connection on local computer. Once a new service is registered, the name cannot be changed.
- **Path** defines the location of the executable file to be used as the service. The default path is C:\Program Files\SKF\Observer X.Y.
- **Version** displays the version of @ptitude Observer in use currently.

Database connection settings

- **Server** is the type of database server such as SQL Server or Oracle. The Monitor Service settings vary depending on the server type.
- **Name** allows to select a server from the list of databases. (*local*) means that the database is on the same PC.
- Authentication defines whether to use *Windows authentication* or *SQL Server authentication* for SQL Server. This Authentication selection corresponds to the selection you have made when installing <u>SQL Server Express</u> at Database Engine Configuration screen.
- User name is the database user name.
- **Password** is the password for the user.
- **Parameters** allows to enter additional parameters for the connection. For example, if you want to force TCP/IP protocol, enter "*Network=DBMSSOCN*;" in this text box.

• **Database** is the selected database from a list of available databases on the database server.

Service settings

- **Port** is used to assign which port the @ptitude Observer Monitor Service should use to communicate with @ptitude Observer and IMx devices. The default value is 1000.
- **Start delay** is used to give the database server some time (in seconds) to start before @ptitude Observer monitor tries to open the connection. It is recommended to set this field to 20 for the startup method *Automatic*. Whereas, it is recommended to set this field to 0 for the startup method *Manual*.
- **Startup method** sets the startup method of the service to either Automatic, Manual or Disabled.
 - > Automatic means that the service starts when the operating system boots up.
 - Manual means that the service has to be started by the user either through @ptitude Observer Monitor Manager or through the services interface in windows.
 - Disabled means that the service is completely disabled.

	Help						
🖪 🗳 🛛) 🗟 😫 🖬 🕨 = 🗉 =>						
Services (Local)	Services (Local)	-					
	ObsService_Observer85	Name 🛆	Description	Status	Startup Type	Log On As	
		🎭 Network DDE	Provides n		Disabled	Local System	
	Start the service	Network DDE DSDM	Manages D		Disabled	Local System	
		Network Location Awareness (NLA)	Collects an	Started	Manual	Local System	
		Network Provisioning Service	Manages X		Manual	Local System	
		🎭 NT LM Security Support Provider	Provides s		Manual	Local System	
		🎭 NVIDIA Display Driver Service	Provides s	Started	Automatic	Local System	
		🍓 Observer Monitor			Automatic	Local System	
		Service_Observer85			Automatic	Local System	
		🎭 Office Source Engine	Saves inst		Manual	Local System	
		🎭 OracleMTSRecoveryService			Manual	Local System	
		Performance Logs and Alerts	Collects pe		Manual	Network S	
		Selug and Play	Enables a c	Started	Automatic	Local System	
		🐝 Portable Media Serial Number Service	Retrieves t		Manual	Local System	
		🐝 Print Spooler	Loads files	Started	Automatic	Local System	
		Protected Storage	Provides pr	Started	Automatic	Local System	
	Extended Standard	AB. A CARD					

Figure 6-26: Example of Window's interface Services

3. A recovery plan, in case of a unrecoverable error, of registered monitor services resides within Windows' interface **Services (Local)** which is located under Administrative Tools in Control Panel.

@ptitude monitor services start with the text "ObsService_".

Select a @ptitude monitor service, then select **Properties** under Action. Or right-click on a @ptitude monitor service and select **Properties**. Select **Recovery** tab

ObsService_Observer85 P	roperties (Local Computer) 👘 🛛 🔀			
General Log On Recovery	Dependencies			
Select the computer's response	e if this service fails.			
<u>F</u> irst failure:	Restart the Service 💌			
Second failure:	Restart the Service 💌			
S <u>u</u> bsequent failures:	Restart the Service 💌			
Reset fail c <u>o</u> unt after:	0 days			
Restart ser <u>v</u> ice after: 1 minutes				
Run program				
Program:				
<u>Browse</u> <u>Command line parameters:</u> Append fail count to end of command line (/fail=%1%) <u>Restart Computer Options</u>				
(OK Cancel Apply			

Figure 6-27: Example of Recovery setting

4. It is recommended to set the First, Second and Subsequent failures of the Recovery setting to "Restart the Service".

7

Edit Observer Settings

Language and License Key

When installing @ptitude Observer, a setting file called @ptitude Observer.ini is installed in C:\Users\[User name]\AppData\Roaming\SKF\Observer X.Y\Observer.ini. This section describes the different settings in that file.

The following is an example of the contents of a @ptitude Observer.ini file:

[System] Language=English RegKey=X53BB8-91JJ45-XY13GH-PC333L-9XMCV6-PP

- Language specifies which language to use.

- **Regkey** is the license key entered when installing the product.

You may edit the language and license key in this file.

Application Data Folder

With @ptitude Observer you can specify which folder to use as the application data folder (default is the user's own application data folder which is usually located in C:\Users\[Username]). The application data folder is used to store user specific data for the @ptitude Observer application such as connection files and .ini files.

You can do this in one of two ways:

Using the USE_APP_PATH Keyword on the @ptitude Observer Properties Shortcut

Using this USE_APP_PATH keyword will cause the @ptitude Observer system to use the same folder as the executable file which resides in for its application data.

@ptitude Observer 9.0 Properties	
General Shortcut Compatibility	
@ptitude Observer 9.0	
Target type: Application	
Target location: Observer9.0	
<u>T</u> arget:	server9.0\ObserverWinUI.exe'' USE_APP_PATH
<u>S</u> tart in:	
Shortcut <u>k</u> ey:	None
<u>B</u> un:	Normal window
Comment:	
Eind Target Change Icon Advanced	
	OK Cancel Apply

Figure 7-28: Assigning the executable file as an application folder

Create a new shortcut to the ObserverWinUl.exe file by editing the @ptitude Observer X.Y Properties Shortcut.

Add the text USE_APP_PATH in the target field as shown in the screen shot, above.

Using a Custom Folder on the @ptitude Observer Properties Shortcut

Instead of using the USE_APP_PATH keyword, it is also possible to specify a custom folder as an application data folder, for example "C:\myfolder".

@ptitude Observer 9.0 Properties ? 🔀	
General Shortcut Compatibility	
@ptitude Observer 9.0	
Target type: Application	
Target location: Observer9.0	
Target: "\Observer9.0\ObserverWinUI.exe" "C:\myfolder"	
Start in:	
Shortcut <u>k</u> ey: None	
<u>R</u> un: Normal window	
Comment:	
OK Cancel Apply	

Figure 7-29: Assigning a custom folder as an application data folder

Note: if it's hard to locate the Observer.ini file, you can always click on the shortcut "User Application data" folder on Programs \ SKF @ptitude Monitoring Suite \ @ptitude Observer X.Y.

IMx/MasCon Network Settings

This step is only needed if the computer is to be used as the @ptitude Observer Monitor computer.

IMx/MasCon units use the TCP/IP protocol to communicate with @ptitude Observer Monitor. By default, the network setting for IMx/MasCon uses IP address of 10.0.0.1 and net mask of 255.255.255.0. If you want to use different IP address, you will need to configure the settings in IMx/MasCon units. MasCon48 is configured using the digital display on the front panel, and MasCon16 and IMx units are configured by creating and sending a configuration file to the unit via @ptitude Observer On-line device configurator software.

For further information, refer to the corresponding IMx unit's User Manual, and **@ptitude Observer On-line Device Configurator User Manual**.

9

Time Synchronization

This step is only needed if you use the PC as the @ptitude Observer monitor computer.

IMx, MasCon16, and MasCon48 use a built-in function in Windows for time synchronization. @ptitude Observer monitor's watch is used as the reference for time in the IMx/MasCon system. In order to activate time synchronization, please follow the procedure below.

- 1. Open port 123 in the firewall. This is done a bit differently depending on your operating system and eventually external firewall.
- 2. Go to services and check that "Windows Time" service start-up method is set to "Automatic" and is started.
- 3. Double click on the file EnableTimeSync.reg in the Extra\TimeSync folder on the Observer DVD. This will enter information in the registry to enable the time synchronization service on the computer.
- 4. Stop and start "Windows Time" service to make this change take effect.

10 Software Upgrade

Important - It is strongly recommended that you create a backup of the database before you start the upgrade procedure.

This section of the installation manual describes how to upgrade @ptitude Observer. Note that different versions require different procedures.

- For versions ProCon 6.4 or earlier, follow the procedures from 1 to 4.
- For versions @ptitude Observer 7 or ProCon 6.5, follow the procedures 3 and 4.
- For version @ptitude Observer 8 and 9, proceed directly to the procedure 4.

1. Preparing for Database Conversion of ProCon 6.4 or Earlier Version

In order for @ptitude Observer database administrator to be able to read and convert databases, databases first need to be upgraded to @ptitude Observer 7.

- On the @ptitude Observer installation DVD, allocate a folder in the location, [DVD]\Extra\Pre ProCon6.5 Upgrade\, which contains two files called DbAdmin.exe and DEF700.txt.
- 2) Double click on the DbAdmin.exe file and login with the **username** and **password**.
- 3) Select the database from the list and click **Update db from definition file** button and browse the **DEF700.txt** file and click **Update**.
- 4) After the upgrade has been completed, close @ptitude Observer database administrator software and continue with the conversion procedure 2, below.

2. Conversion Procedure for ProCon 6.4 or Earlier Version

- 1) Make sure ProCon, MasCon server or database tool is not running.
- 2) Uninstall database tool.
- 3) Uninstall ProCon.
- 4) Uninstall MasCon server.
- 5) If the installation of the latest @ptitude Observer has not been done yet, insert the @ptitude Observer DVD and follow the <u>@ptitude Observer Suite Installation</u> procedure.
- 6) Start @ptitude Observer database administrator and select the database you wish to convert.
- 7) Click on menu option Database/Convert Observer7/ProCon 6.5 database.
- 8) Select a new desired database name and click **Start** button.

Converting the database can take a long time. The more data in the database, the longer it takes. Therefore, it is strongly recommended to delete unnecessary data in the database before converting the database.

The conversion of the database keeps the original database intact. After the conversion, there will be two databases, one of the old version and the other of the new.

3. Converting from @ptitude Observer 7 or ProCon 6.5

- 1) Make sure that @ptitude Observer, @ptitide Observer Monitor or @ptitude Observer database administrator is not running.
- 2) Uninstall @ptitude Observer by using the add/remove interface in the control panel.
- 3) If the installation of the latest @ptitude Observer has not been done yet, insert the @ptitude Observer DVD and follow the <u>@ptitude Observer Suite Installation</u> procedure.
- 4) Start @ptitude Observer database administrator to do the database conversion.
- 5) Select the database that you wish to upgrade.
- 6) Click on menu option Database/Convert Observer7/ProCon 6.5 database.
- 7) Select a new desired database name and click **Start** button.

Converting the database can take a long time. The more data in the database, the longer it takes. Therefore, it is strongly recommended to delete unnecessary data in the database before converting a database.

The conversion of the database keeps the original database intact. After the conversion, there will be two databases, one of the old version and the other of the new.

4. Upgrading Procedure

- 1) Start @ptitude Observer database administrator.
- 2) Select the menu option **Database**, then **Upgrade selected database**.
- Select definition file which should be located in the same folder as @ptitude Observer or in the folder '[DVD]:\NewVer\Database administrator\' and has a file extension of .DEF. Click Ok to proceed.
- 4) Start @ptitude Observer.
- 5) Click the menu item **On-line** then select **IMx/MasCon** units.
- 6) Click the button **Firmware**.
- 7) Browse the folder for the firmware of the IMx/MasCon types you are using. The files are located in the '[DVD]:\NewVer' folder.

Note that you do not have to uninstall the database manager such as SQL Server or Oracle in order to upgrade the system.

Important - After a database conversion, all diagnosis in the database need to be recalculated in the Observer software. Until this is done all diagnosis will display the value 0. The recalculation can be done at Observer Hierarchy view, by right clicking on a node and selecting Configure\Recalculate diagnoses.