

Start up Guide for SKF Multilog On-line System IMx and SKF @ptitude Analyst

Introduction

This application note contains a brief procedure on how to run SKF @ptitude Analyst with SKF Multilog IMx units. For this procedure, SKF @ptitude 2010 or newer needs to be installed. Please refer to the following application notes for detailed information about points configuration and other useful features:

- **CM3158**, *Add SKF Multilog On-line System IMx Points in SKF @ptitude Analyst*
- **CM3159**, *Add SKF Multilog On-line System IMx AC, DC, Logic and Speed Points in SKF @ptitude Analyst*
- **CM3160**, *Create SKF Multilog On-line System IMx Orbit and SCL Points in SKF @ptitude Analyst*
- **CM3161**, *Create Alarm Groups, Set up Relays and Active Ranges for SKF Multilog On-line System IMx in SKF @ptitude Analyst*
- **CM3171**, *Create SKF Multilog On-line System IMx Transient Groups for Run up and Coast down Data Collection in SKF @ptitude Analyst and SKF @ptitude Observer*

The procedure in this application note covers:

- SKF Multilog IMx Network
- Online Device Configurator and serial interface
- SKF Multilog IMx Service
- SKF Multilog IMx unit and channels configuration in SKF @ptitude Analyst
- Firmware

Procedure

To run SKF @ptitude Analyst with SKF Multilog IMx units, it is necessary to follow these steps (described in detail below):

- 1 Install SKF @ptitude Analyst and database.
- 2 Create a network for the SKF Multilog IMx.
- 3 Create an IP configuration file for the SKF Multilog IMx.
- 4 Download the IP configuration file to the SKF Multilog IMx.
- 5 Register an SKF Multilog IMx Service in the Analyst Configuration Tool.
- 6 Check that SKF @ptitude IMx and Transaction Server services are running.
- 7 Configure the SKF Multilog IMx in SKF @ptitude Analyst.
- 8 Add the firmware to the database.
- 9 Build channels and set up measurements points.



1. Install SKF @ptitude Analyst and database

For better performance, you need to install SKF @ptitude Analyst 2010 or newer (→ fig. 1).

2. Create a network for the SKF Multilog IMx

To be able to work with SKF Multilog IMx units, you need to create a network.

- From your PC, go to **Control Panel / Network and Internet / Network Connections**.
- Right-click on the network that the SKF Multilog IMx units will use and choose **Properties** (→ fig. 2).
- Highlight "Internet Protocol Version 4" and click **Properties** (→ fig. 3).
- Set the **IP address** of the monitor computer to "10.0.0.1" and **Subnet mask** to "255.255.255.0" and click **OK** (→ fig. 4).
- If this is a specific network for SKF Multilog IMx units only, then a gateway is not needed. A gateway is needed if SKF Multilog IMx units should be on the internet.
- Always involve the IT department if a network is going to be set up at a customer site.

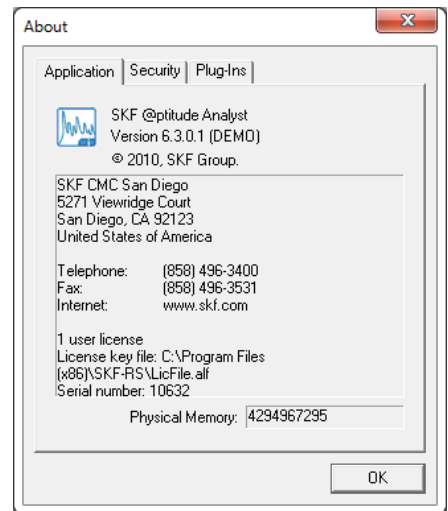


Fig. 1. About window showing version of SKF @ptitude Analyst

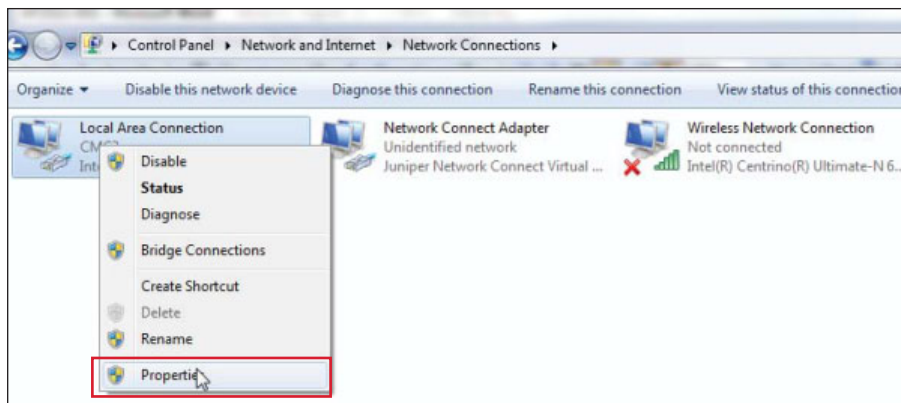


Fig. 2. Select Properties from the network that the SKF Multilog IMx units will use.

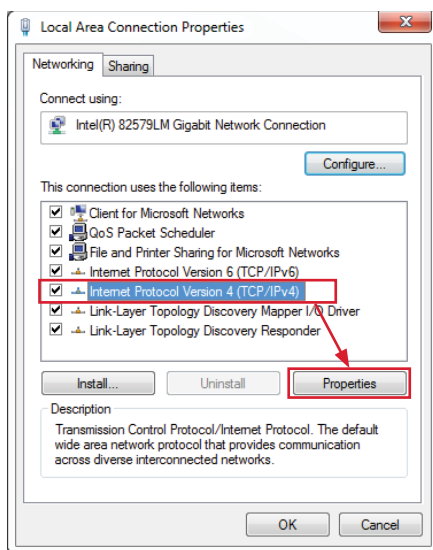


Fig. 3. Click Properties while "Internet Protocol Version 4" is selected.

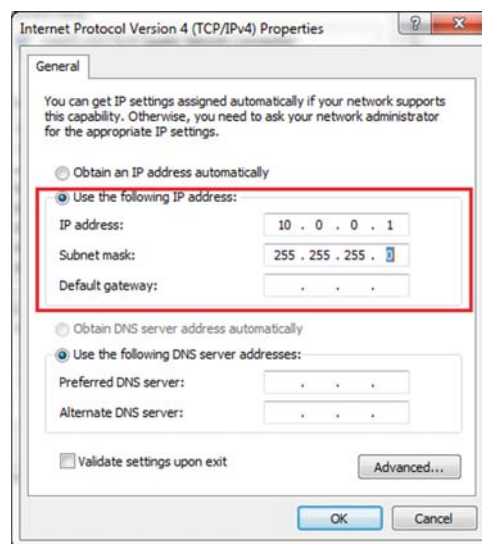


Fig. 4. Set the IP address and Subnet mask.

3. Create an IP configuration file for the SKF Multilog IMx

To create an IP configuration file for the SKF Multilog IMx:

- Start *Multilog IMx Configurator* by going to **Start / All Programs / SKF @ptitude Monitoring Suite / Administrative Tools / Multilog IMx Configurator** (→ fig. 5).
- Click on **Create a Network and ID configuration file for IMx and save to disk** (→ fig. 6).
- From the **Create IMx Config** window, select "IMx" as **Device type** and **Configure by** "Software" (→ fig. 7).
- Choose **Device number** "1" for the first unit and set the **IP address** to "10.0.0.101" (if the installation is at a customer site, then the IT department must provide the IP address).
- For the **IMx Service IP**, type in the IP of the computer where the SKF Multilog IMx service is running, then enter which port to use in the **IMx Service Port** field (the default port is 1000).
- Click **Save**, give the file a name and remember where it was saved.

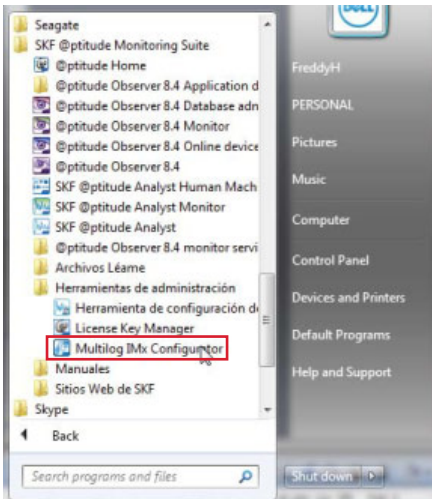


Fig. 5. Select Multilog IMx Configurator.

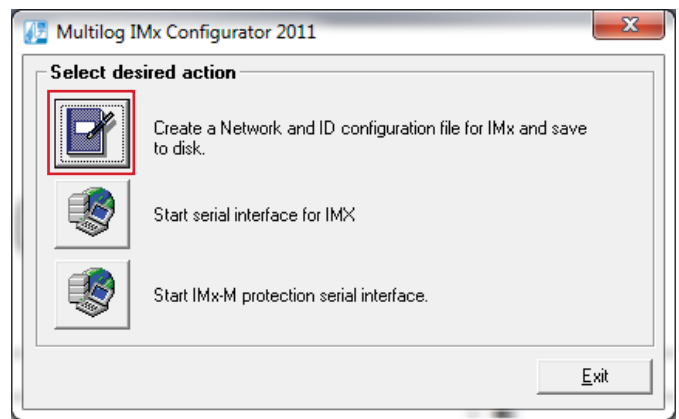


Fig. 6. Create a Network and ID configuration file for IMx and save to disk.

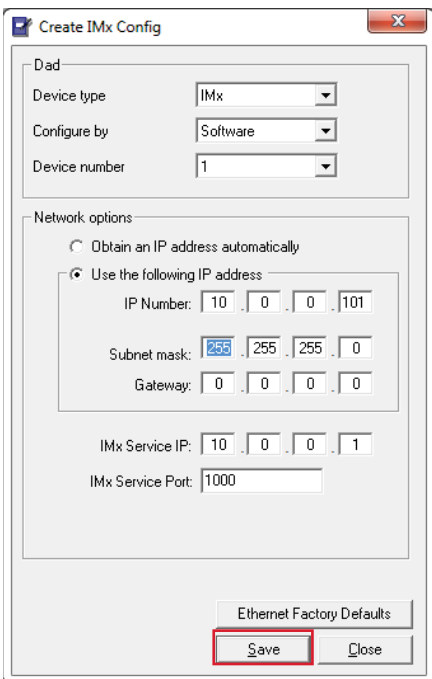


Fig. 7. Set the Dad and Network options for the Multilog IMx Configurator.

4. Download the IP configuration file to the SKF Multilog IMx

Use a null modem serial cable (→ fig. 8) for connecting the SKF Multilog IMx and uploading the IP address. If the computer used does not have a serial port, then use a USB-to-serial converter. For SKF Multilog IMx-M, a direct USB connection can be used (→ fig. 9). For this USB, drivers shall be installed according to the "SKF Multilog IMx-M USB drivers installation" procedure.

- Start *Multilog IMx Configurator* by going to **Start / All Programs / SKF @ptitude Monitoring Suite / Administrative Tools / Multilog IMx Configurator** (→ fig. 5).
- Select **Start serial interface for IMx** (→ fig. 10).
- Select the **COM Port** and click **Update network config.** (→ fig. 11).
- Highlight the configuration file you want to upload to the SKF Multilog IMx and click **Open** (→ fig. 12).
- The file will now upload to the SKF Multilog IMx.
- After 15 seconds, upload will complete (→ fig. 13).
- From the **Download and verification Complete** window, click **OK**.
- After 10 seconds, the device number and IP address of the unit will display in the serial interface (→ fig. 14).



Fig. 8. Serial cable.



Fig. 9. USB cable.

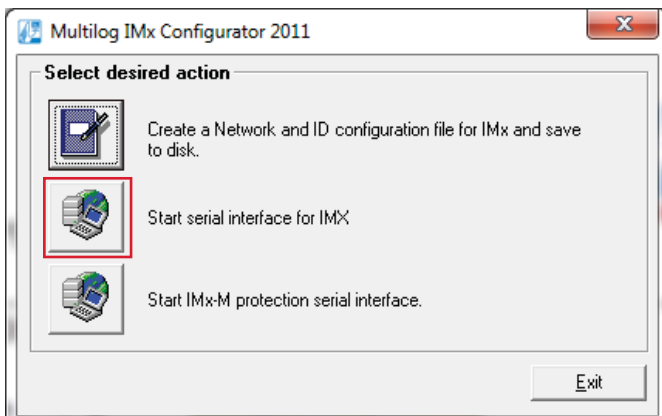


Fig. 10. Start serial interface to IMx.

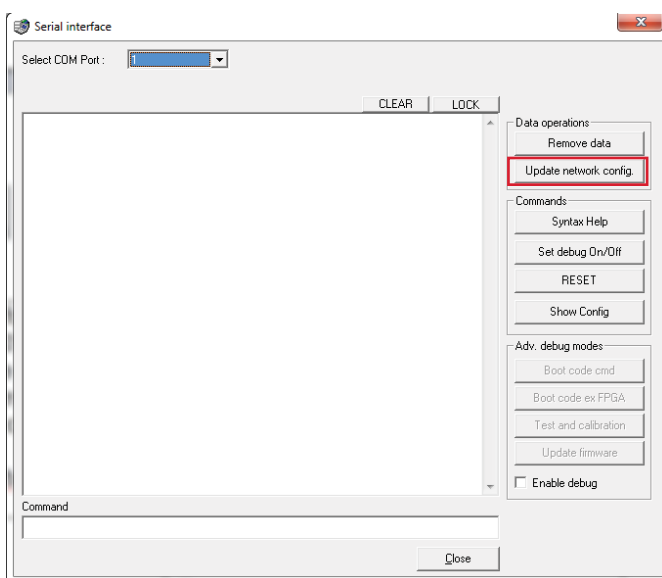


Fig. 11. Select the COM Port and Update network config.

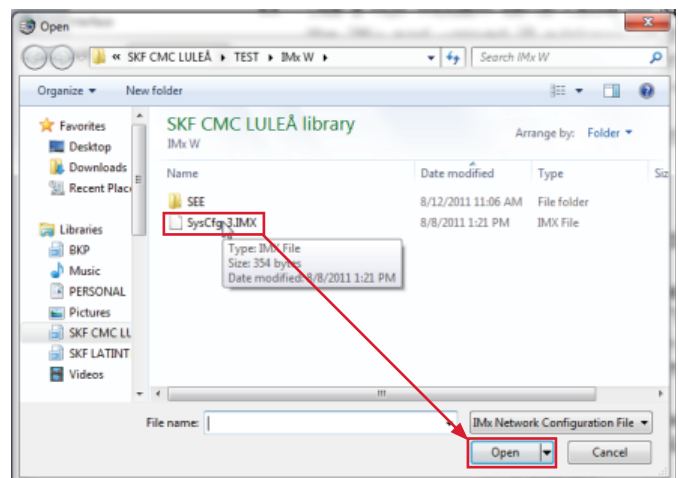


Fig. 12. Open the configuration file to upload to the SKF Multilog IMx.

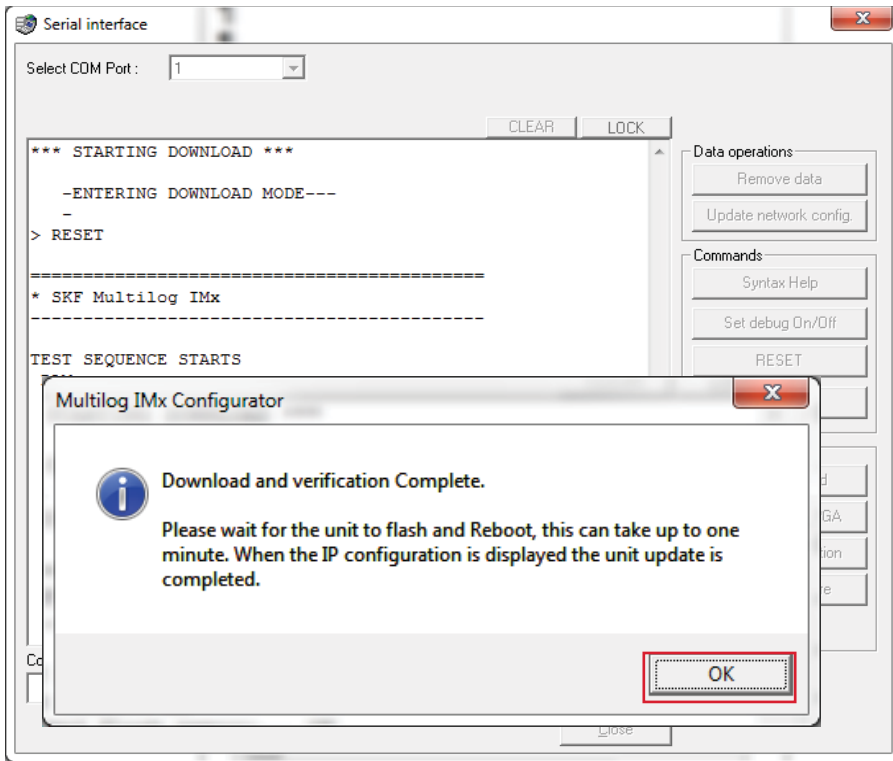


Fig. 13. Download and verification completion message.

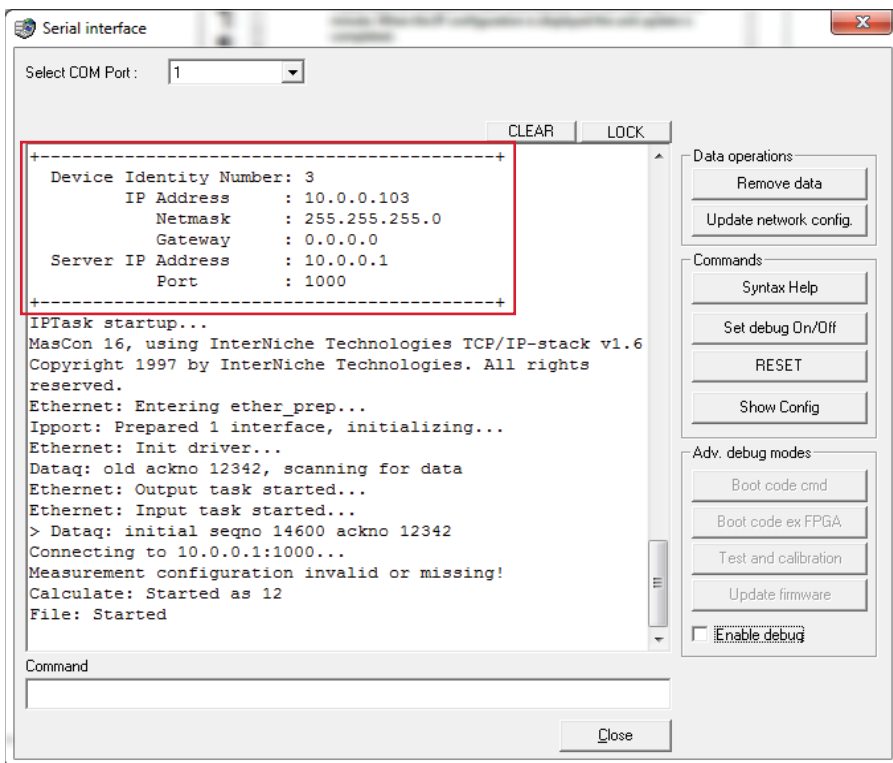


Fig. 14. Device number and IP address displayed in the serial interface.

5. Register an SKF Multilog IMx service in the SKF @ptitude Analyst Configuration Tool

To register an SKF Multilog IMx service in the SKF @ptitude Analyst Configuration Tool:

- Go to: **Start / All programs / SKF @ptitude Monitoring Suite / Admin Tools / SKF @ptitude Analyst Configuration Tool** (→ fig. 15).
- From the warning window, click **OK** (→ fig. 16).
- Highlight **SKF @ptitude IMx Service** and click **Manage** (→ fig. 17).
- Select the database type and name the connection (→ fig. 18).
- For SQL Server Express edition, the **DB connect name** field has the format: <computername>\SQLEXPRESS
 - For SQL full version, use "localhost"
 - For Oracle, use the database name
- Click **Save**.
- Click **Add** and name the service (→ fig. 19).
- The default port is "1000"; you can change it if it is already in use.
- The SKF Multilog IMx **Hostname** is the computer name found in **System Properties**.
- The **Connection title** is the database connection previously created.
- The **Local host IP address** is the network that the SKF Multilog IMx is connected to.
- Enable "Send emails when service lost database connection".
- Click **Save**.
- An SKF @ptitude IMx service should display in the upper right window.

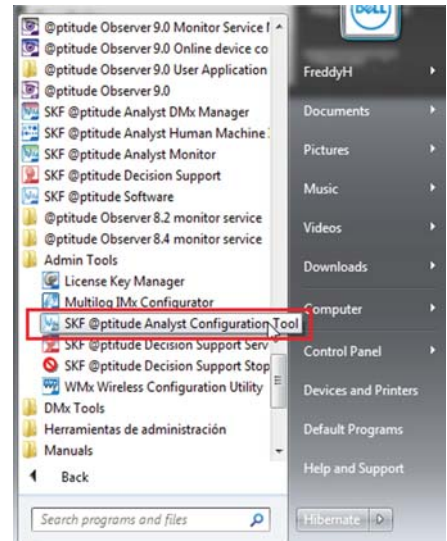


Fig. 15. Open SKF @ptitude Analyst Configuration Tool.

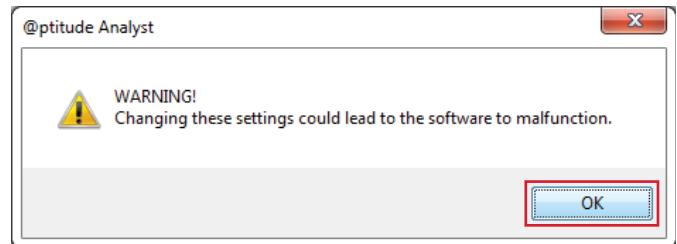


Fig. 16. Warning window.

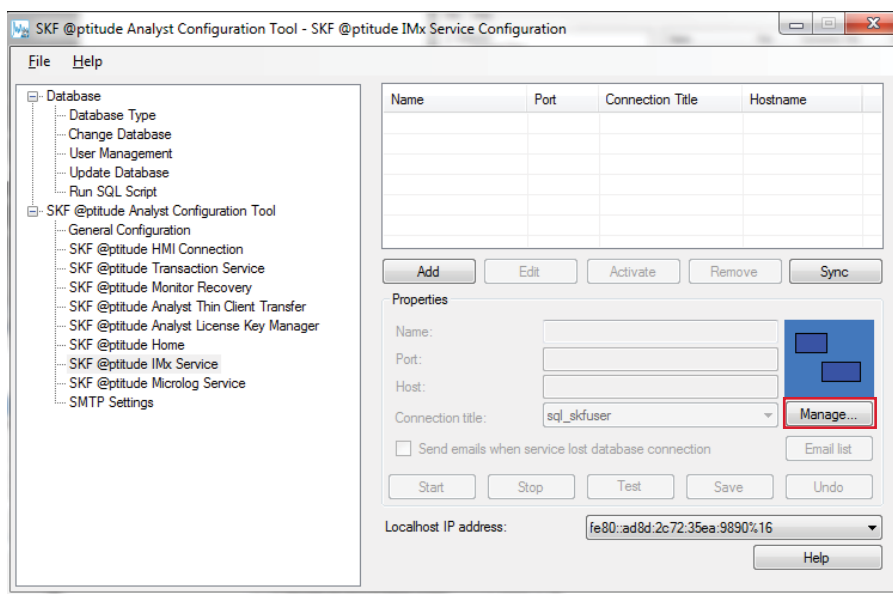


Fig. 17. Manage the SKF @ptitude IMx Service.

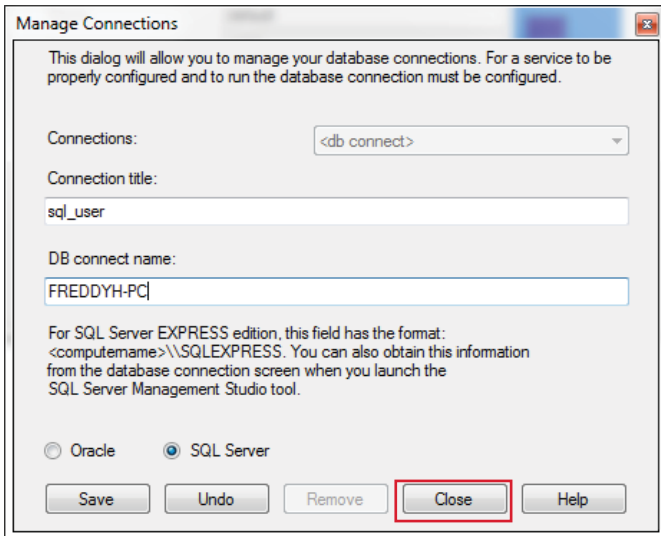


Fig. 18. Manage the database connections.

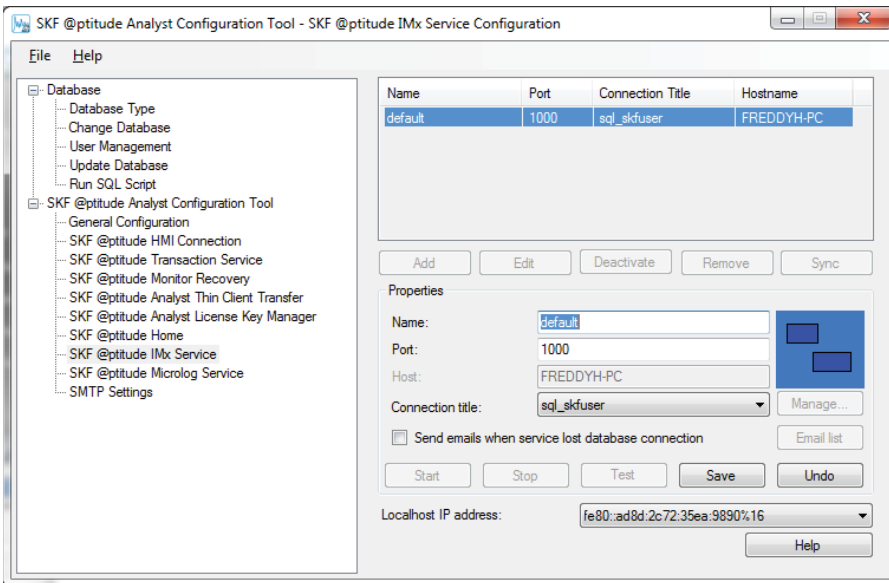


Fig. 19. Configure the SKF @ptitude IMx service.

6. Check that the SKF @ptitude IMx and Transaction Server services are running

Check that both SKF @ptitude IMx service and SKF @ptitude Transaction Server are started by right-clicking on **Computer / Manage / Services and Applications / Services** (→ fig. 20).

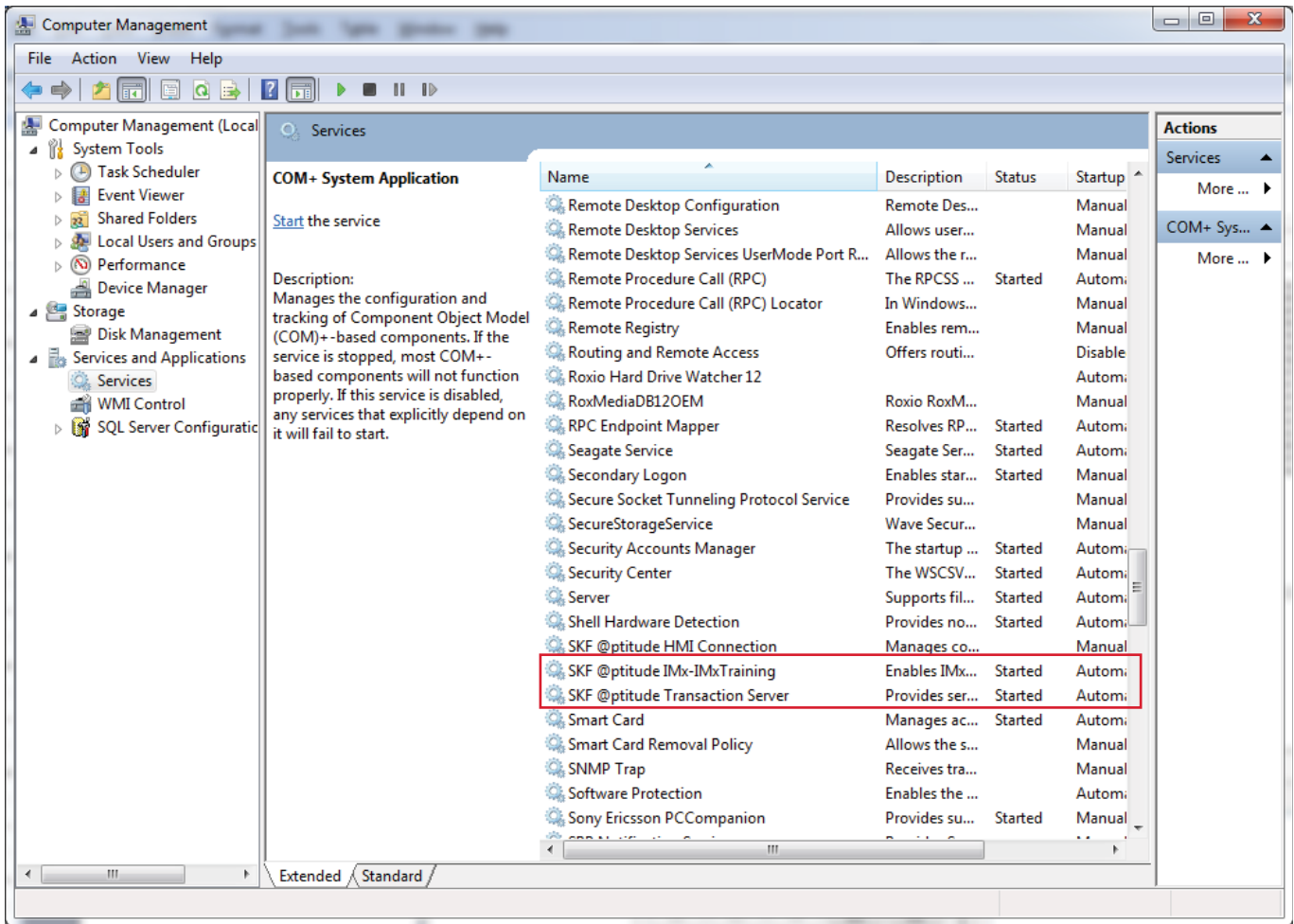


Fig. 20. SKF @ptitude IMx service and SKF @ptitude Transaction Server are both started.

7. Configure the SKF Multilog IMx in SKF @ptitude Analyst

To configure the SKF Multilog IMx in SKF @ptitude Analyst:

- From SKF @ptitude Analyst, go to **Customize / Online settings** (→ fig. 21).
- Click **Add** and enter a **Device name** (→ fig. 22).
- Choose which SKF Multilog IMx to use (S, P, M or T).
- Choose the correct SKF Multilog **IMx service**.
- Select a device number (**DAD #**) between 1 and 255. This should be the same as in the configuration file downloaded to the SKF Multilog IMx.
- **Communication timeout** indicates the time that needs to be reached during a disconnection before alarming it as an event and (if configured) sends an email indicating the lost of the connection.
- The SKF Multilog IMx should be "always connected".
- **Connection interval** is used when the SKF Multilog IMx is not going to be connected 100% of the time to the server.
- For the **Reference time**, enter the time when a spectrum will be stored if spectra are stored every day.
- Select the correct **Time zone** where the SKF Multilog IMx is mounted and then click **Config**.
- Configure the channels to use (→ fig. 23).
- Enable **Check sensor OK status**. In SKF @ptitude Analyst, a BOV check is built into each measurement; SKF Multilog IMx will stop measuring on this channel if it goes out of the range.
- ICP is controlled with DIP switches on SKF Multilog IMx-S, -M and -T. SKF Multilog IMx-P does not have DIP switches and needs to be configured by software.
- Click **OK** and close the online settings.

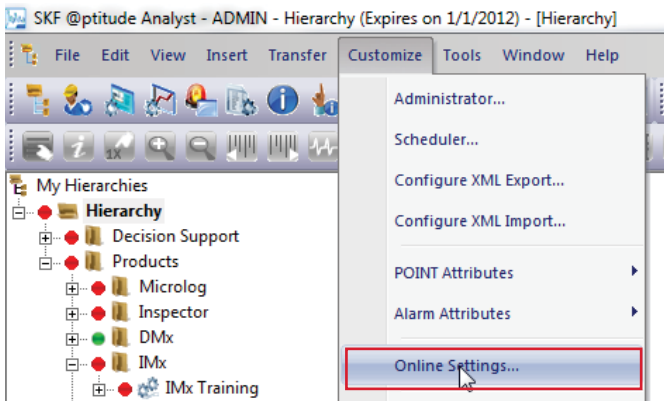


Fig. 21. From SKF @ptitude Analyst, go to Customize / Online Settings.

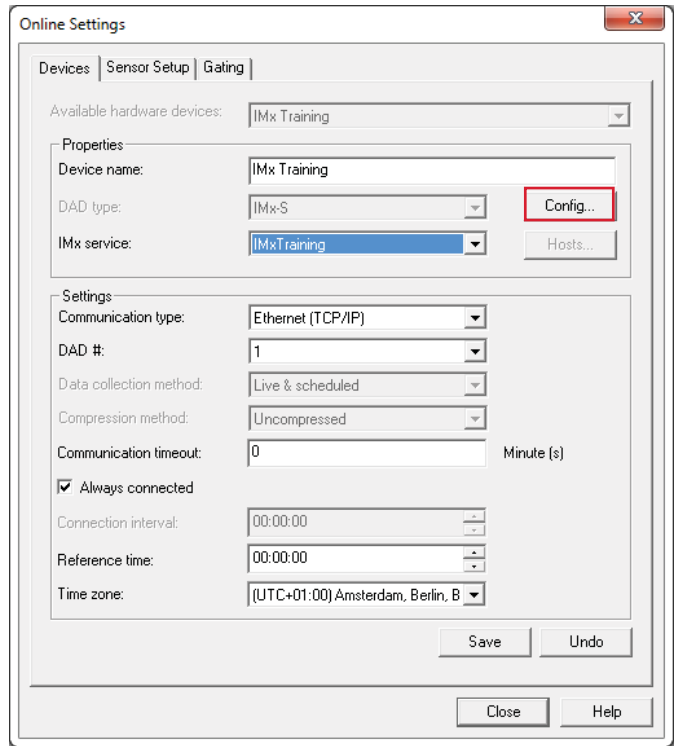


Fig. 22. Enter the online settings.

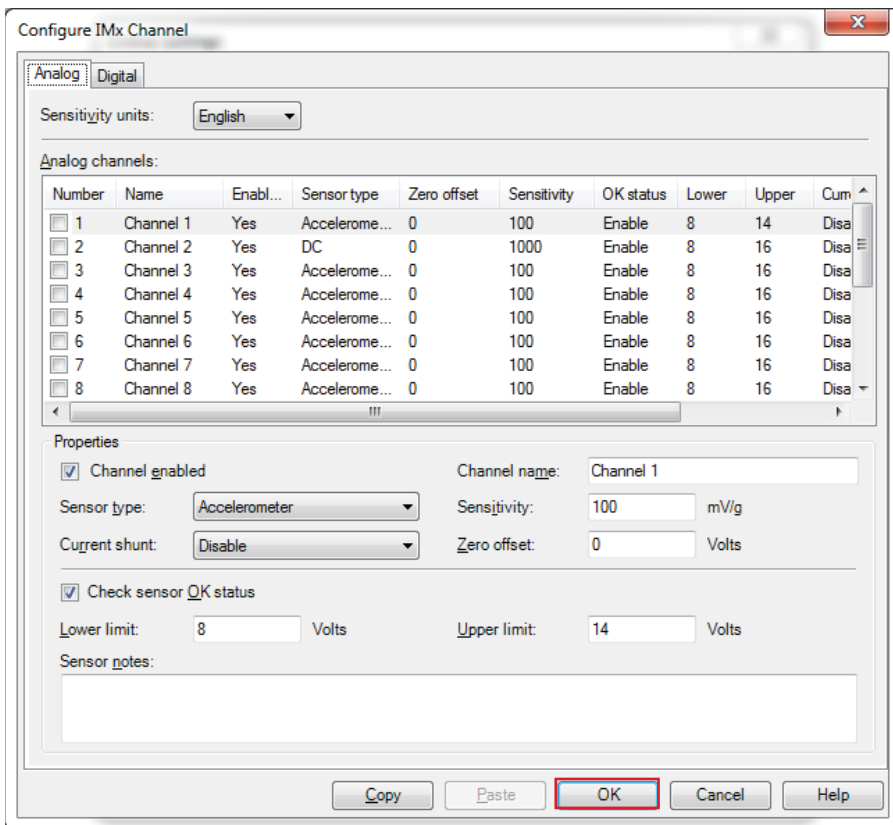


Fig. 23. Configure the channels to use.

8. Add the firmware to the database

To add the firmware to the database:

- From SKF @ptitude Analyst, go to **File / Import / Firmware** (→ fig. 24) and click **Browse** (→ fig. 25).
- You will find the firmware on the Analyst CD. From the CD directory (→ fig. 26), highlight the **.pkg** file and click **Open**.
- When you see the .pkg file in the window, you can close the window (→ fig. 27).

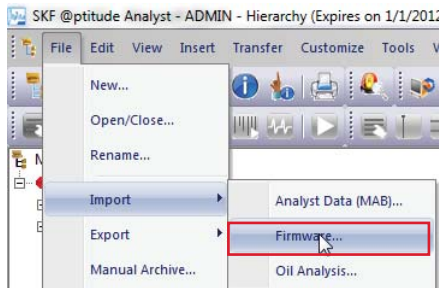


Fig. 24. Go to File / Import / Firmware.

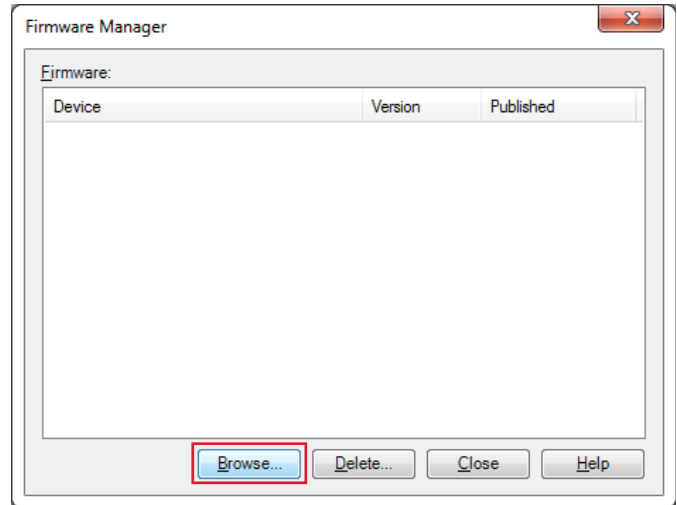


Fig. 25. Click Browse.

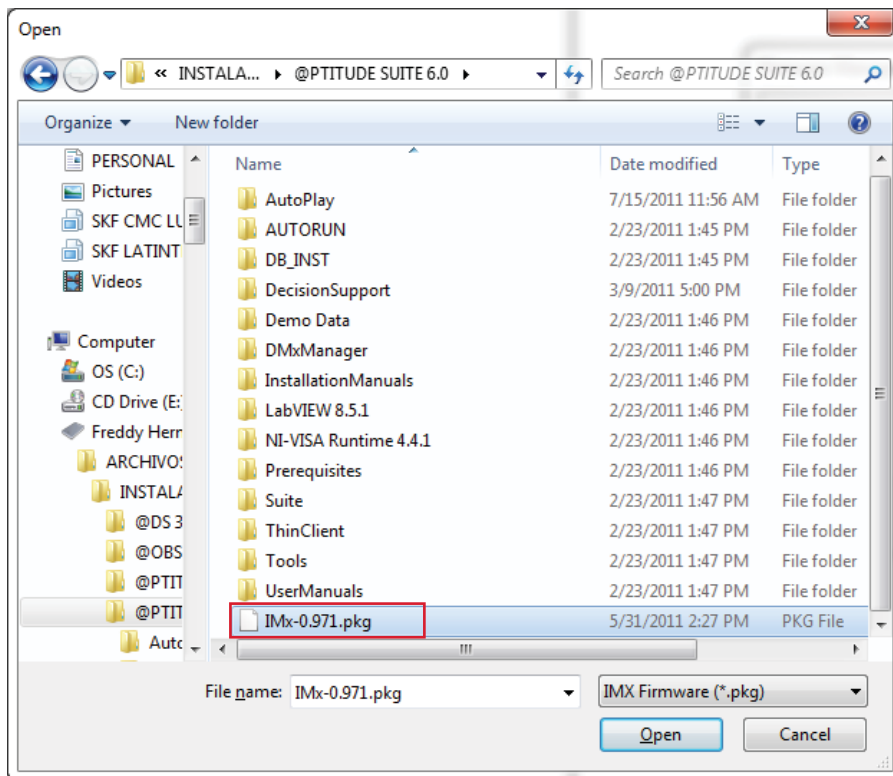


Fig. 26. Open the .pkg file.

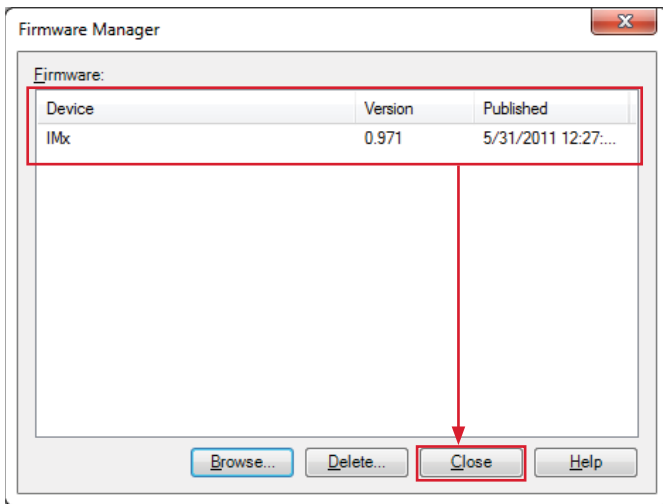


Fig. 27. When the .pkg file displays in the window, click Close.

9. Build channels and set up measurement points

Now you can add points to the hierarchy (refer to application notes **CM3158**, *Add SKF Multilog On-line System IMx Points in SKF @ptitude Analyst*, and **CM3159**, *Add SKF Multilog On-line System IMx AC, DC, Logic and Speed Points in SKF @ptitude Analyst*).

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