

Calculate Remaining Storage Time When SKF Multilog On-line System IMx is Not Connected to the Server (Monitor)

SKF Multilog IMx flash memory

The SKF Multilog IMx has 8 MB of flash memory used for:

- 2 MB: Firmware, configuration files, etc.
- 2 MB: Trend value buffer (about 13 000 vibration trend values can be buffered; speed and process data use half the space of vibration)
- 4 MB: Spectra and time signal buffer (about 250 spectra using 1 600 lines with phase and time signal can be buffered)
 - If you use more lines, the number of spectra is reduced; if you use less lines, the number of spectra increases.
- When a buffer gets full, the oldest data is deleted

If you have 10 points configured to trend each minute, and with 1 600 lines spectra, every three hours you will have:

- **Trend values:**
 - $(10 \text{ trend values / min}) \times X = 13\,000$
 - $X = 1\,300 \text{ min}$
 - $X = 21,67 \text{ hours to buffer 13\,000 vibration trend values}$
- **Spectra and time signal:**
 - $(10 \text{ values / 3 hrs}) \times Y = 250$
 - $(3,33 \text{ values / hr}) \times Y = 250$
 - $Y = 75,07 \text{ hours to buffer 250 spectra}$

After filling the buffer, the oldest data will be erased if there is not a connection with SKF @ptitude Observer Monitor or SKF IMx Service to download the data to the database. Refer to *IMx transient data.xls* to determine if an SKF Multilog IMx is capable of buffering specified transient data while the server is temporarily unavailable.

In SKF @ptitude Observer 8.5 or newer, by going to menu option **Database / Dataminer** (→ **fig. 1**) and selecting the **Database performance / Data storage** option, it will be possible to check the size of the data that will be stored to the database and the size of the SKF Multilog IMx internal buffer duration with the current setup of each SKF Multilog IMx unit (→ **fig. 2**). This information can be exported to an .xcl file.



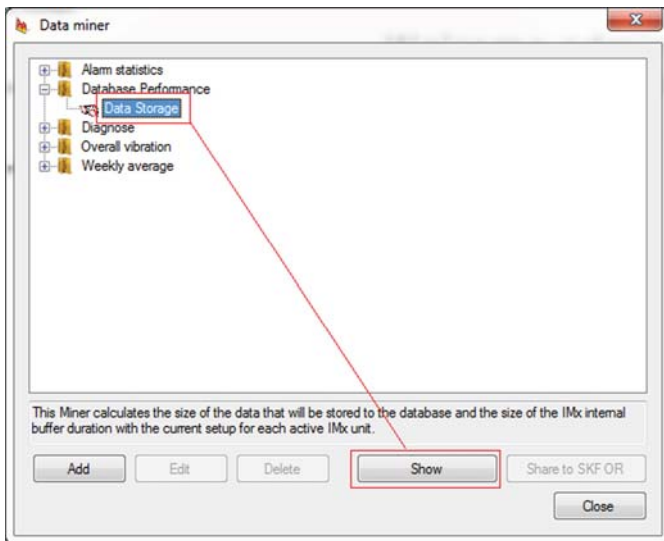


Fig. 1. Data miner window.

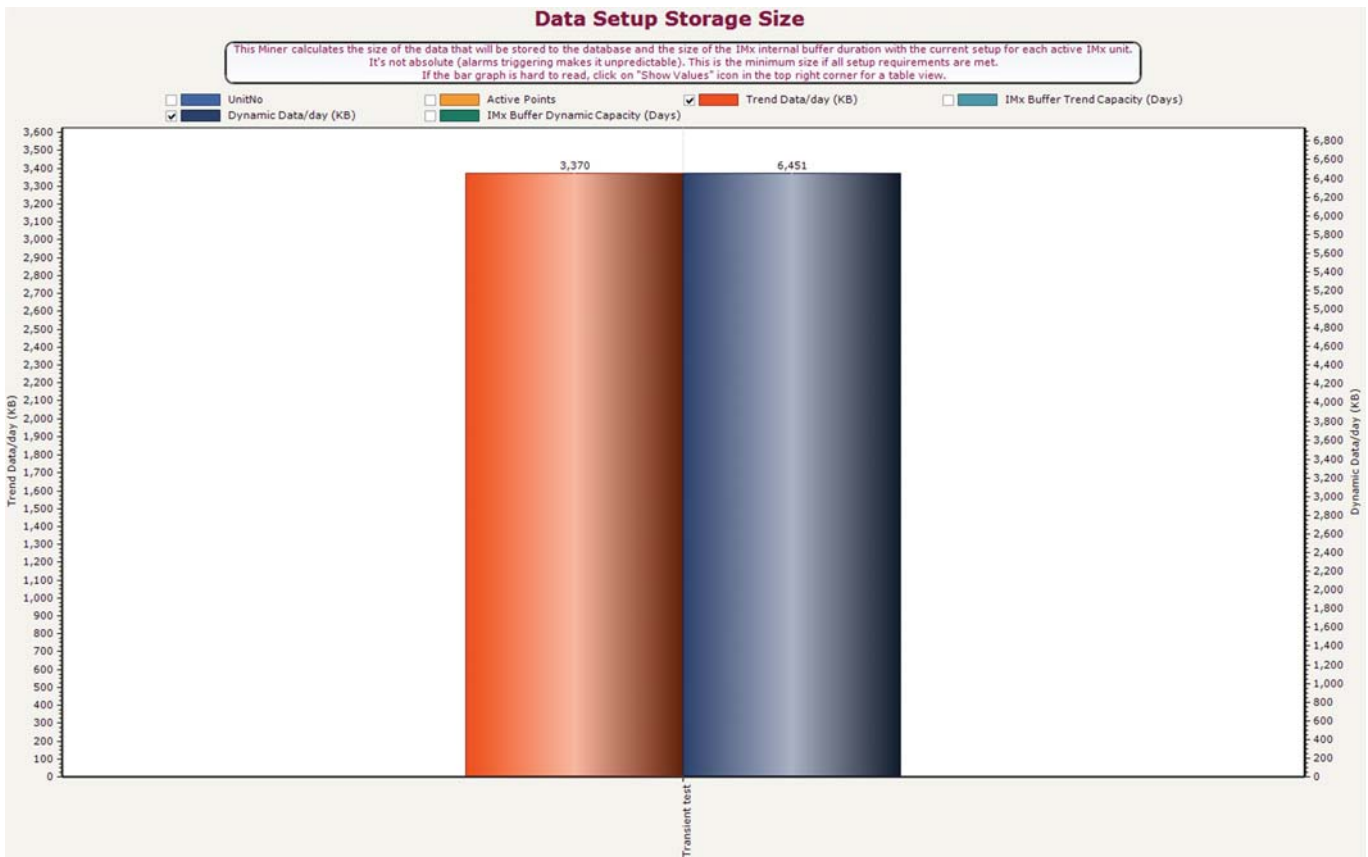


Fig. 2. Data Setup Storage Size window.

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