

Knowledge Base Article

Product Group: Multilog On-line Systems

Product: IMx

Version: N/A

Abstract

This article explains how to configure a SKF Multilog IMx On-line System and its POINTs to collect data within a selected speed range.

Overview

In order to control the collection of vibration data based on the speed of the machine using an IMx, a tach input must be present in the same IMx as the vibration POINT to be controlled. Follow the steps below to accomplish this.

1. Set up the Digital Channel to correctly read the input by assigning the **Pulse per Revolution** [Figure 1] to the Digital Channel.

➤ **Remember**, Pulse/Rev divides the Raw Speed (Tach) input

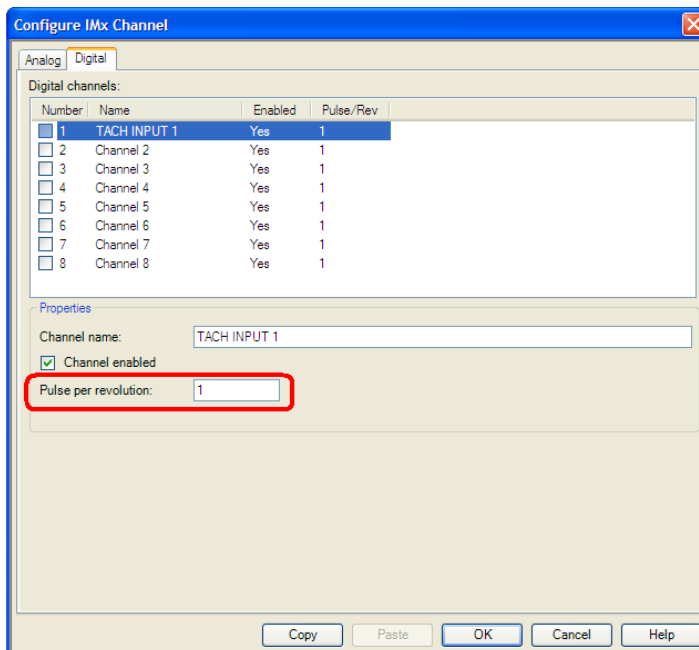


Figure 1. Assigning Pulse/Rev to digital channel

- Next, build a Speed POINT in the hierarchy. [Figure 2]

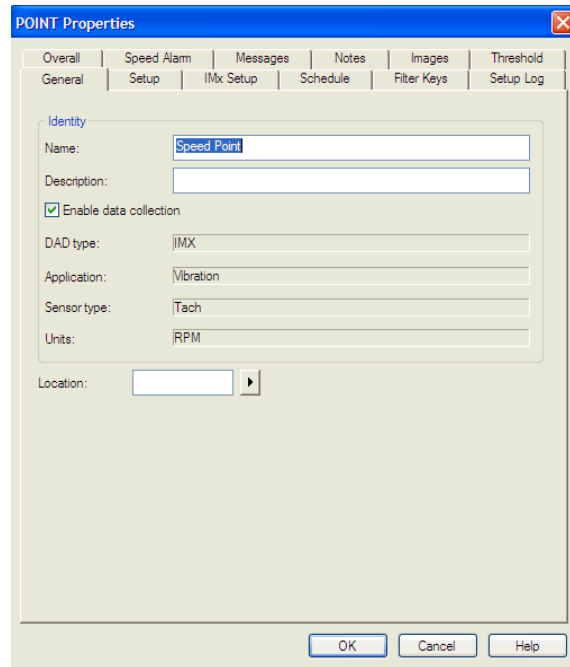


Figure 2. New Speed POINT

- In the **Setup** tab, select the Digital Channel that the POINT is to read. [Figure 3]

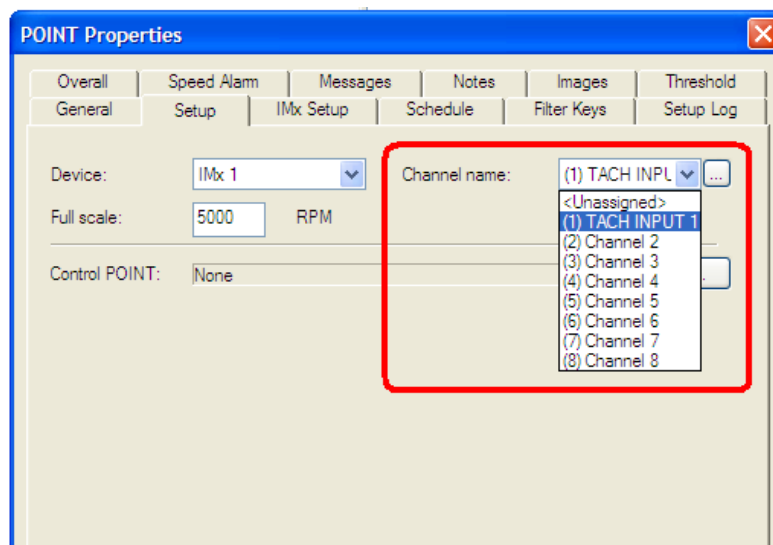


Figure 3. Choose channel

- With the speed input into the IMx, a POINT may now be used to gate the collection of data. Choose the POINT to gate and open its **Properties**. [Figure 4]

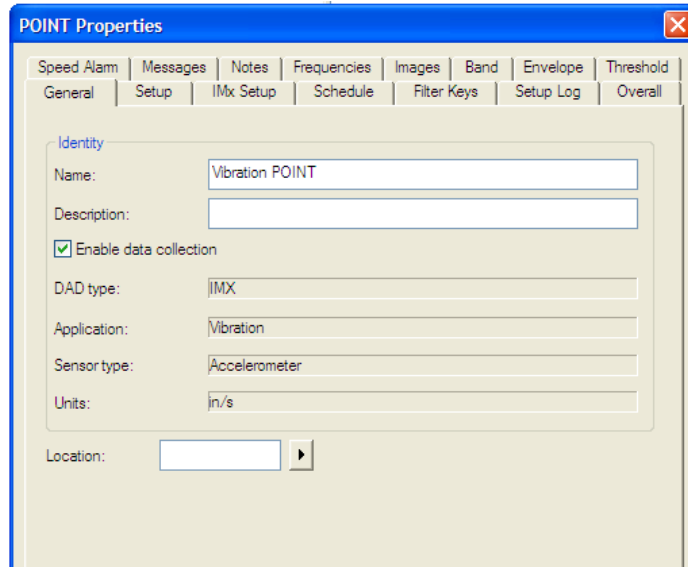


Figure 4. Gating POINT

- Click on the **Threshold** tab.
- Click the **Select...** button under Speed Gating. [Figure 5]

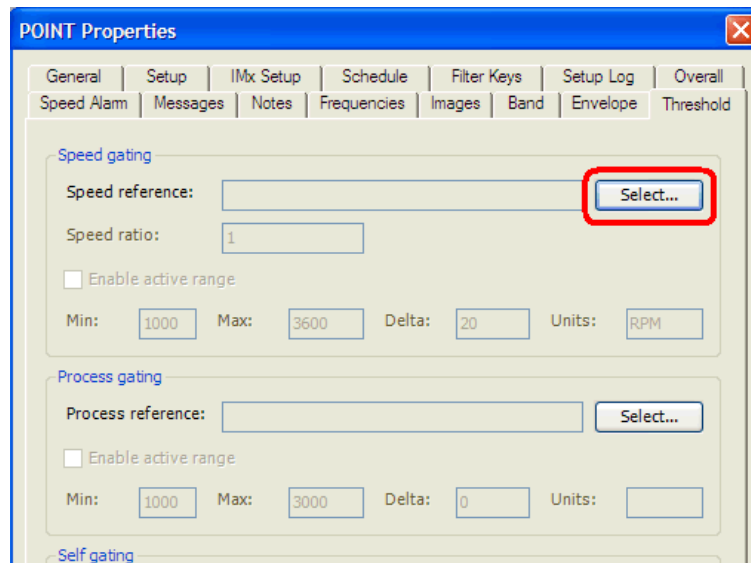


Figure 5. Speed gating setup

- Now, select the **Select speed reference POINT** option, and then select the Speed POINT from the hierarchy list. [Figure 6]. Click **OK** to save.

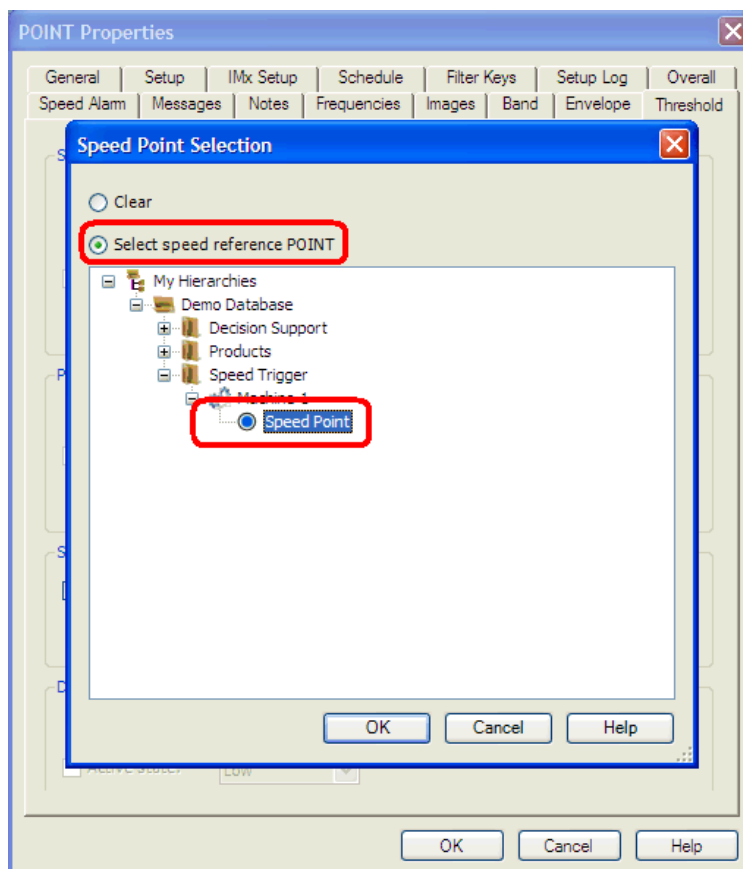


Figure 6. Select speed reference POINT

- Set the **Speed ratio** so that the speed will reflect the actual speed of the POINT being monitored (Speed ratio is a Multiplication factor of the Speed channel). Next, check the option **Enable active range**. Finally, set up the limits for data collection. [Figure 7]

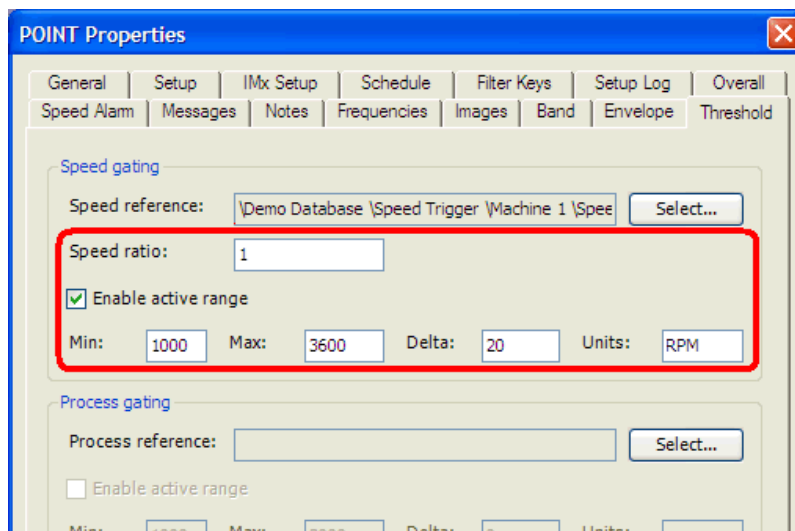


Figure 7. Speed gating setup

9. Click **OK** when done. The software is now configured to collect data within a selected speed range using an IMx.

For further assistance, please contact the Technical Support Group by phone at 1-800-523-7514 option 8, or by email at TSG-Americas@skf.com.