

# Knowledge Base Article

**Product Group:** IMx

**Product:** IMx-S

**Version:** N/A

## Abstract

This article describes a brief procedure on how to add standard IMx vibration POINTs in SKF @ptitude Analyst software. Only single channel POINTs are discussed in this guide.

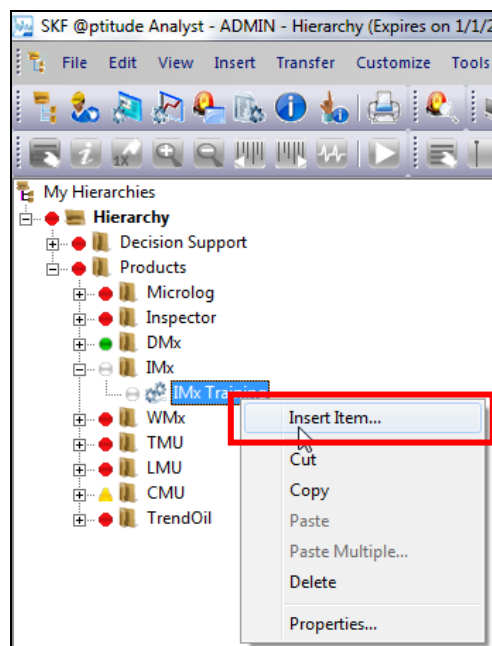
## Overview

The following items will be addressed in this document:

- Selecting device type, application, sensor, and corresponding units.
- POINT setup and compliance/schedule.
- Relays and Active Range configuration, including speed, process and digital.
- Alarms (overall, envelope, band and speed).

Follow the steps below to add IMx vibration POINTs into SKF @ptitude Analyst. Press the **[Help]** button at any time for more information about POINT configuration.

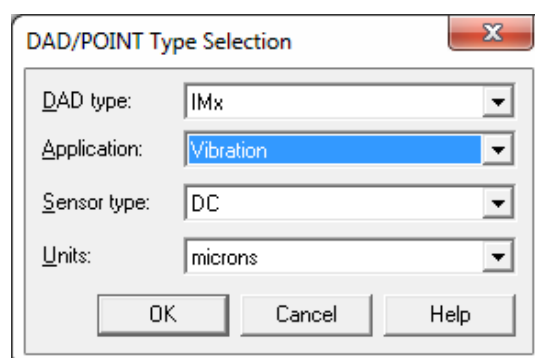
1. In the hierarchy, right-click on the machine of interest and select **Insert Item**. [Figure 1]



**Figure 1.** Inserting an item

2. Select **IMx** as the DAD type, and **Vibration** as the Application.

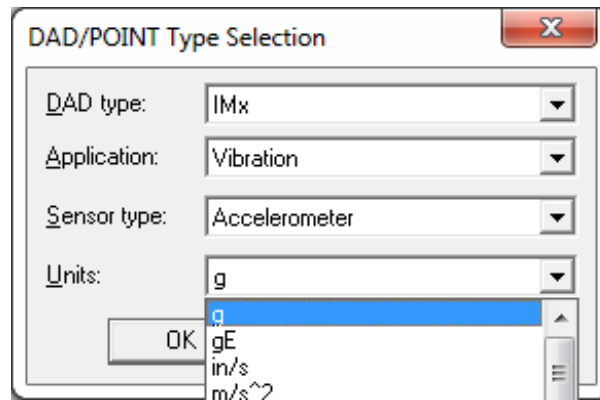
*Note: There are multiple options under Application; however, the purpose of this document is to address the vibration field only.*



**Figure 2.** Selection for POINT creation

3. Select the **Sensor type** based upon the intended application.

In this example, **Accelerometer** will be selected for Sensor type, and **g** will be selected for Units. [Figure 3] Press **OK**.



**Figure 3.** Sensor type and Units

- The POINT Properties dialog will appear. In the **General** tab, enter the POINT **Name** and **Description**. A summary of the POINT type can be read. The **Enable data collection** option must be checked in order to activate the POINT. [Figure 4]

POINT Properties

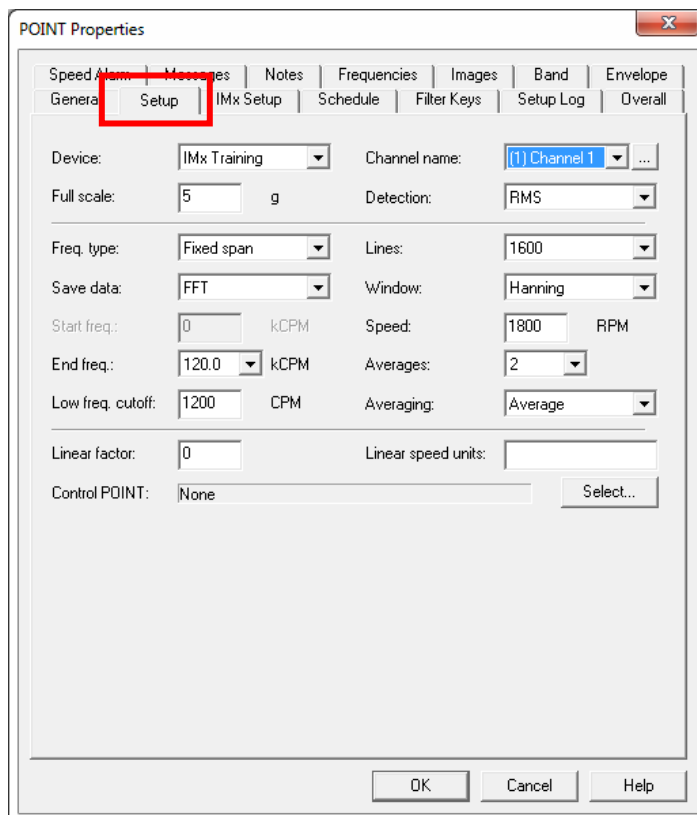
Speed Alarm | Messages | Notes | Frequencies | Images | Band | Envelope  
**General** | Setup | IMx Setup | Schedule | Filter Keys | Setup Log | Overall

Identity  
 Name: MI 01HA  
 Description:  
☒ Enable data collection  
 DAD type: IMX  
 Application: Vibration  
 Sensor type: Accelerometer  
 Units: g  
 Location: 1

OK Cancel Help

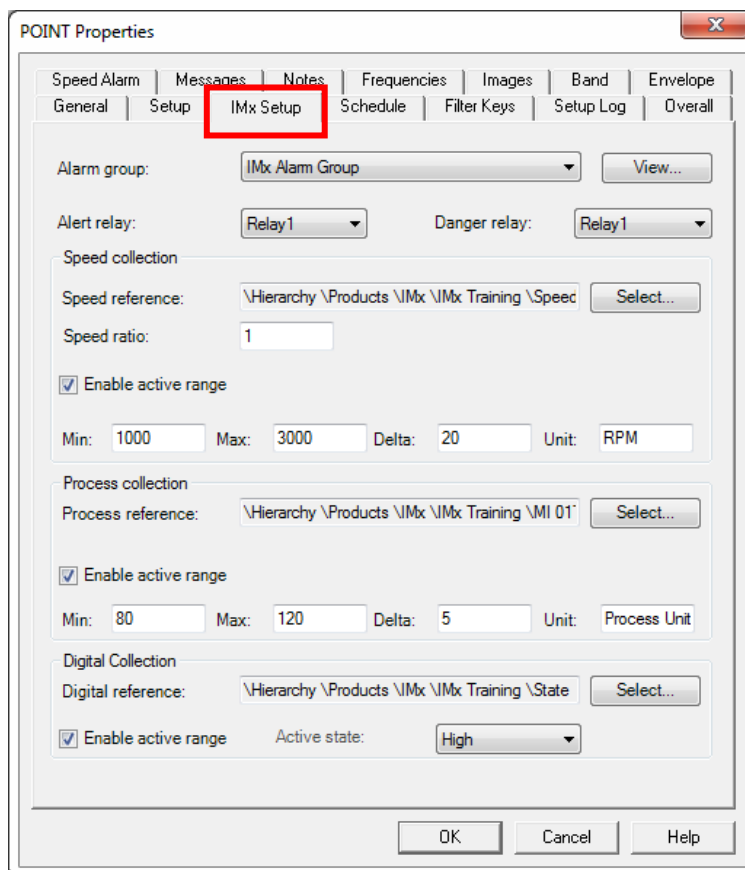
**Figure 4.** General tab

- Next, click the **Setup** tab. The Setup tab is perhaps the most important section, as it contains core information about the POINT. Select the corresponding **Device** (DAD) from the drop-down list and then assign the corresponding **Channel name**. [Figure 5]



**Figure 5.** Setup tab

6. If required, the **IMx Setup** tab can be used to enter additional IMx-specific information unique to the POINT of interest, such as speed, relay and control data. [Figure 6]



**POINT Properties**

Speed Alarm | Messages | Notes | Frequencies | Images | Band | Envelope  
General | Setup | **IMx Setup** | Schedule | Filter Keys | Setup Log | Overall

Alarm group: IMx Alarm Group View...

Alert relay: Relay1 Danger relay: Relay1

Speed collection

Speed reference: \Hierarchy \Products \IMx \IMx Training \Speed Select...

Speed ratio: 1

☒ Enable active range

Min: 1000 Max: 3000 Delta: 20 Unit: RPM

Process collection

Process reference: \Hierarchy \Products \IMx \IMx Training \MI 01 Select...

☒ Enable active range

Min: 80 Max: 120 Delta: 5 Unit: Process Unit

Digital Collection

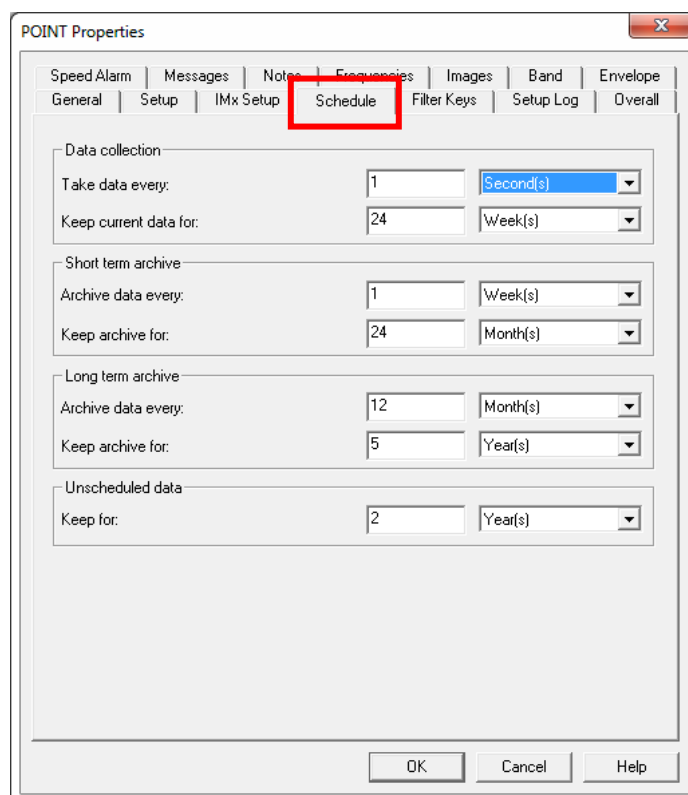
Digital reference: \Hierarchy \Products \IMx \IMx Training \State Select...

☒ Enable active range Active state: High

OK Cancel Help

**Figure 6.** IMx Setup tab

7. Data collection schedules, as well as the conditions that dictate data archiving, may be configured in the **Schedule** tab. This section also allows for configuring general data collection guidelines. [Figure 7] The actual time stamp for a reading will depend on factors such as averages, resolution, etc.



**POINT Properties**

Speed Alarm | Messages | Notes | **Schedule** | Images | Band | Envelope  
 General | Setup | IMx Setup | Filter Keys | Setup Log | Overall

**Data collection**

Take data every: 1 Second(s)  
 Keep current data for: 24 Week(s)

**Short term archive**

Archive data every: 1 Week(s)  
 Keep archive for: 24 Month(s)

**Long term archive**

Archive data every: 12 Month(s)  
 Keep archive for: 5 Year(s)

**Unscheduled data**

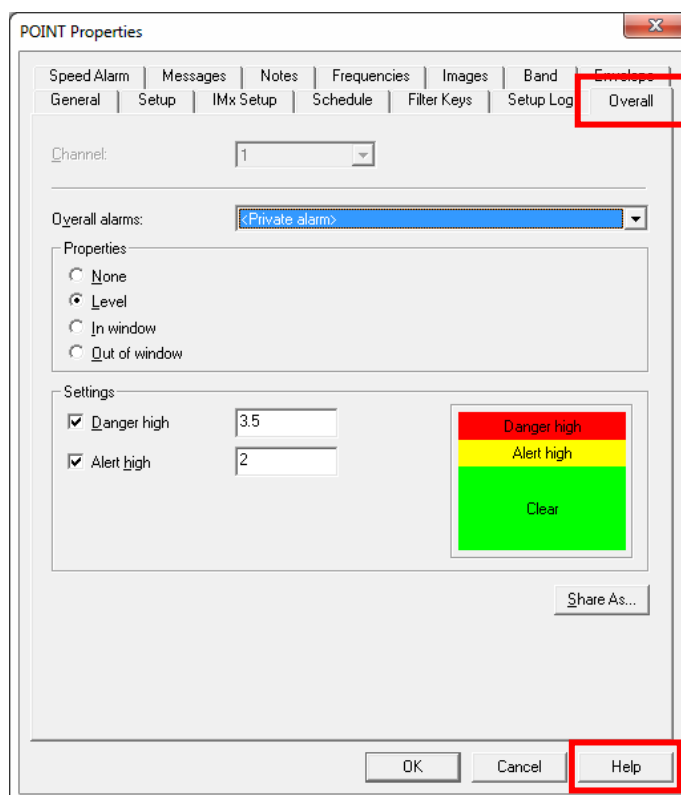
Keep for: 2 Year(s)

OK Cancel Help

**Note:** With IMx units, it may be possible to collect data as fast as every one (1) second!

**Figure 7.** Schedule tab

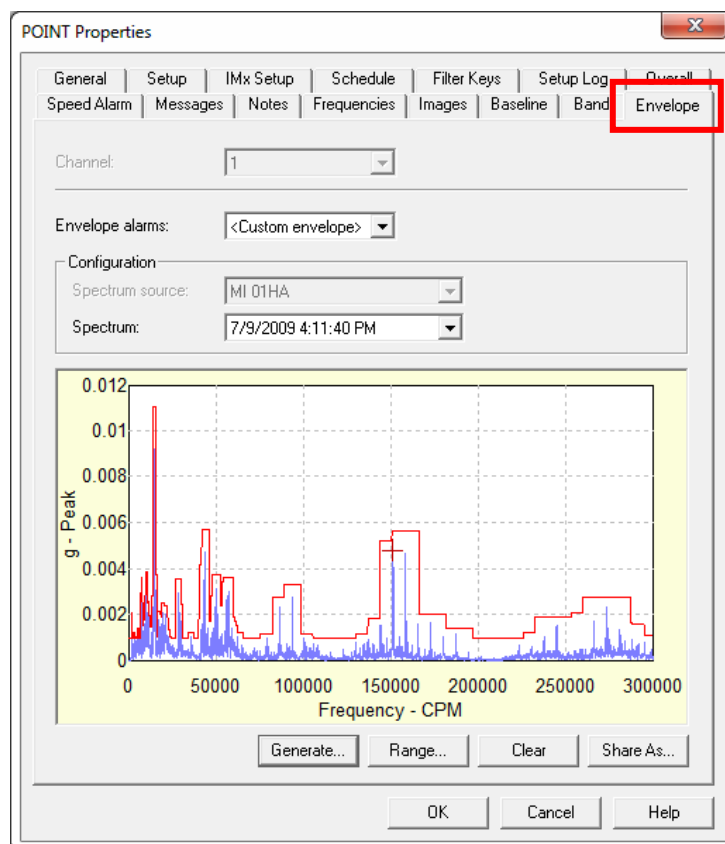
- The **Overall** tab allows for entry of alarm and danger criteria. Press the **[Help]** button for a full description of each alarm type. [Figure 8]



**Figure 8.** Overall tab

9. To set up an envelope alarm, click on the **Envelope** tab. This section provides the option to “draw” the alarm for given data. [Figure 9]

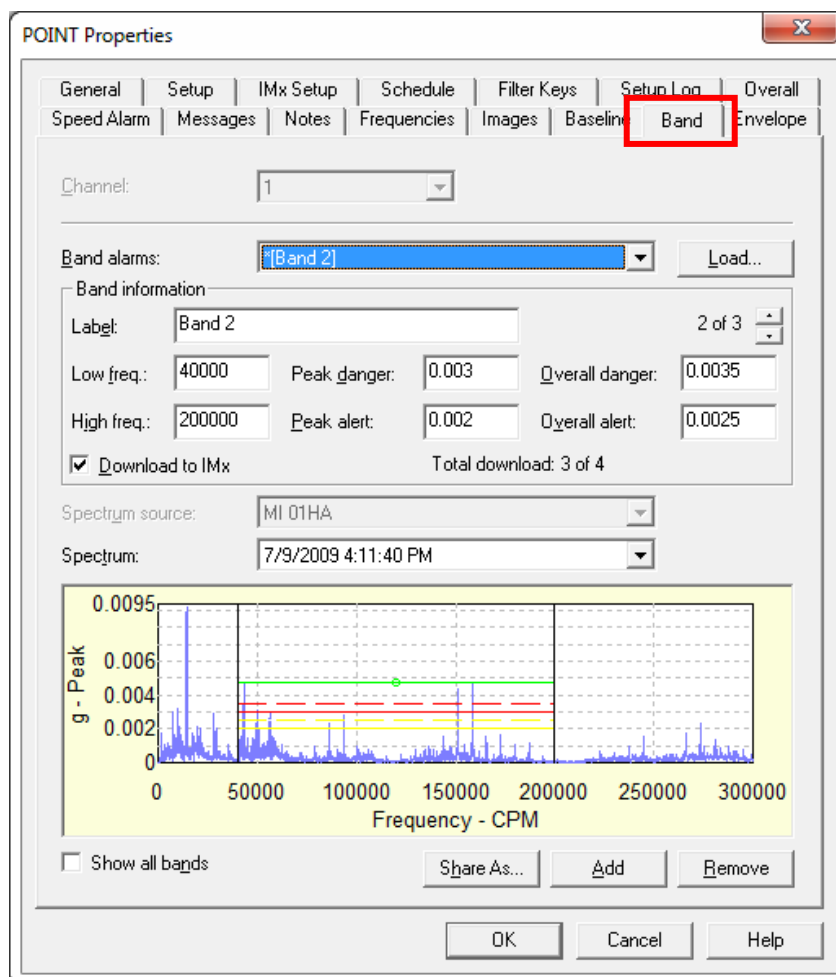
*Note: This is only an option after spectral data has been collected. It will not appear on a new POINT.*



**Figure 9.** Envelope tab

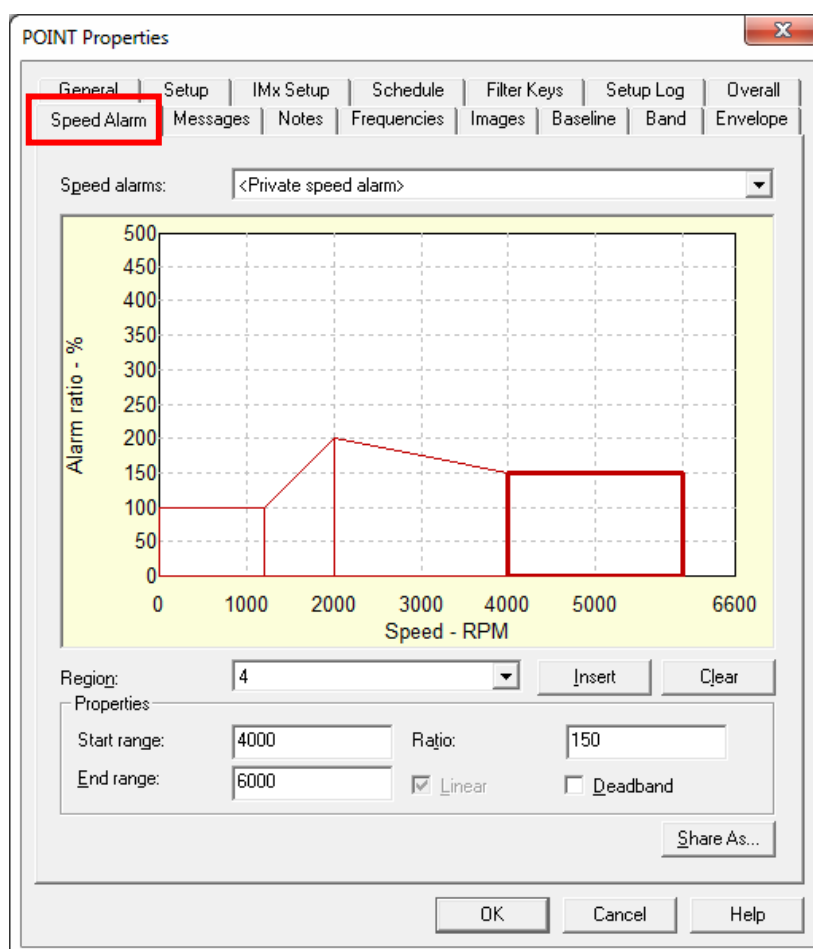
10. Band alarms can be set from within the **Band** tab. [Figure 10] A maximum of four (4) band alarms may be set to a single IMx device.

*Remember, data must exist in the POINT in order for the assignment to take place.*



**Figure 10.** Band tab

11. The last item to discuss in this article is the **Speed Alarm** tab. This section accepts user-defined speed alarm range parameters that are typically used to avoid phenomena such as machine resonance. [Figure 11]



**Figure 11.** Speed Alarm tab

12. Press **OK** to save the changes.

An IMx vibration POINT has been created.

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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](mailto:TSG-Americas@skf.com).