Transformation Errors and Warnings

Tracking errors and warnings are displayed below the translation and orientation data, in the bottom right section of the tool tracking utility.

ToolBox displays the following errors and warnings in the tool tracking utility. For reference, the API flag corresponding to the error or warning is included in the following table.

Error or Warning	Description	API Flag
Algorithm Limit Exceeded	There is not enough Position Sensor memory available to process the data.	BX/TX 0001, port status bit 8
Bad Fit	There are enough markers in view, but the system cannot calculate a transformation for the tool.	BX/TX 0002, tool information bit 0
Fell Behind	The system could not process all the data before moving on to the next frame of data.	BX/TX 0001, port status bit 14

Interference	The Position Sensor is detecting excessive background infrared light, which prevents it from being able to detect markers or process all the infrared light data. This may be caused by reflections or other sources of infrared light.	BX/TX 0001, port status bit 9
Marker Limit Exceeded	The system has detected more marker-sized infrared light sources than it can process. This may be caused by reflections or other sources of infrared light.	BX/TX 0001, port status bit 15
Out of Volume	All the markers on the tool are outside the characterized measurement volume.	BX/TX 0001, port status bit 6
Partially out of Volume	Fewer than the minimum number of markers are inside the characterized measurement volume, and at least one marker on the tool is inside the characterized measurement volume.	BX/TX 0001, port status bit 7
Processing Error	The system has encountered a condition which invalidates the transformation data gathered for a tool.	BX/TX 0001, port status bit 12
Reference Missing	ToolBox cannot report a transformation for the tool, because the tool is being reported relative to a reference tool, and the reference tool is missing.	Reference tool is reported as missing by BX handle status, or TX 0001.
Reference Out of Volume	The reference tool for this tool is outside the characterized measurement volume.	Reference tool is reported as out of volume by BX/TX 0001, port

		status bit 6.
Synchronization Error	There are synchronization errors between processors in the system. Reset the system (**File > Reset System**).	BX/TX system status bit 0
System Alert	The system status has changed. The new alert will be displayed on the system status page. **To View the System Status Page** 1. Open the configure utility (click). 2. Click on the top item in the left pane to show the system status page.	BX/TX system status bit 8
System Error	There is an internal communications error within the Position Sensor. Reset the system (**File > Reset System**).	BX/TX system status bit 3
Temperature	The system temperature is outside of the optimal operating range.	BX/TX system status bit 9
Too Few Markers	The Position Sensor cannot detect enough markers to calculate a tool transformation.	BX/TX 0002, tool information bit 1
Tool Missing	The system cannot detect the tool.	BX handle status, or TX 0001
Tracking Suspended	The system has stopped tracking. This is most likely due tracking being paused, or due to an interruption in communications between system devices or between the system and the host computer.	None.

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Related Topics:

Tracking Tools
Position and Orientation
Marker Information
Frame Number and Face
System Status
Tool Tracking Utility