Enabling Spectral Bands on Devices in InsightCM 2.0

Follow the steps below to enable cRIO devices to compute spectral bands.

1. Export the device definition for the device type that you want to enable spectral bands for. This is done via the InsightCMConsole.exe through the command line interface. For example, to export the CMS-9065 device definition use this command line: ***InsightCMConsole.exe exportdefinition –t device –n CMS-9065 –o “c:\temp\9065.json”***
2. Edit the device definition file to enable spectral bands for the device. There are two places that these need to be edited. Below are the edited snippets with the spectral bands added:

"CalculatedMetrics": [

"Crest Factor",

"Derived Peak",

"Peak-Peak",

"RMS",

"Speed",

"True Peak",

"Gap",

***"Spectral Band: Orders",***

***"Spectral Band: Phase",***

***"Spectral Band",***

***"Residual"***

],

{

"Section": "Calculations",

"KeyValues": { "CalculatedMetrics": "Crest Factor,Derived Peak,Peak-Peak,RMS,Speed,True Peak,Gap,***Spectral Band,Spectral Band: Orders,Spectral Band: Phase,Residual***",

"NonDeviceChannels": null }

1. Import the modified device definition file. Use the InsightCMConsole.exe command line again. Example: : ***InsightCMConsole.exe importdefinition –t device –f “c:\temp\9065.json”***
2. Now you add spectral bands to your device and they will be calculated on the device instead of the server.