Creating Profibus .ALERT files

What is an .ALERT file

- A .ALERT file defines to AMS Device Manager which parameters or variables should be read from the device on a periodic basis to generate alerts.

- The alerts inform the user that the device has failed or has other issues that need maintenance attention from the user.

- Examples

  – Device has failed and needs replacing.

  – Device needs maintenance soon.

- Do not process / operation alerts.

  – Process temperature is high

  – Flow is low

What is an .ALERT file

- Data type supported
  - Bit enumerated, 1 to 4 bytes in length
  - Enumerated, 1 to 4 bytes in length

- Data constructs supported
  - Must be a supported data type
    - Replace the text in the <> with the information for the variable or parameter.
    - Simple variable
      - <Variable Name>
      - Example - Status
    - Record elements
      - <Record Name>.member.<Member Name>
      - Example - DeviceVariables.member.Staus
    - Array Elements
      - <Array>.element.<Element Index>
      - Example – StatusArray.element.3

What to you need

- A list of what variables and bits or values of those variables you want reported in the AMS Device Manager Alert Monitor

- The Alert file generation tool

What to you need

- Sample List of Variables

DD Variable / Parameter Name	Bit or Value	Type	Label	Description
Failure_Bits_1	1	Bit Enumerated	Device Failure	Device has failed, replace module B
Failure_Bits_1	2	Bit Enumerated	Device Failure	Device has failed, replace module C
Sensor_Status	12	Enumerated	Sensor Failure	Sensor has failed. Checked terminal 2 wiring
Sensor_Status	10	Enumerated	Sensor Failure	Sensor has failed. Checked terminal 1 wiring

The ALERT file Tool

- The tool is part of the AMS Device Manager Profibus toolkit.

- It needs to be installed on your machine.

  – It does not create a start menu item, you need to run it from the installed location. Create your own short cut is you like.

  – Default locations is;

    • \Program Files\AMS EDDL Alert Toolkit2\EDDLAlertUtil.exe

The ALERT file Tool

- File | New

- Enter the devices Manufacture ID, Device Type ID, Device Revision, and DD rev in Hex

The ALERT file Tool

- Add Variables

- Right Click and add variable

- Enter variable information and click OK
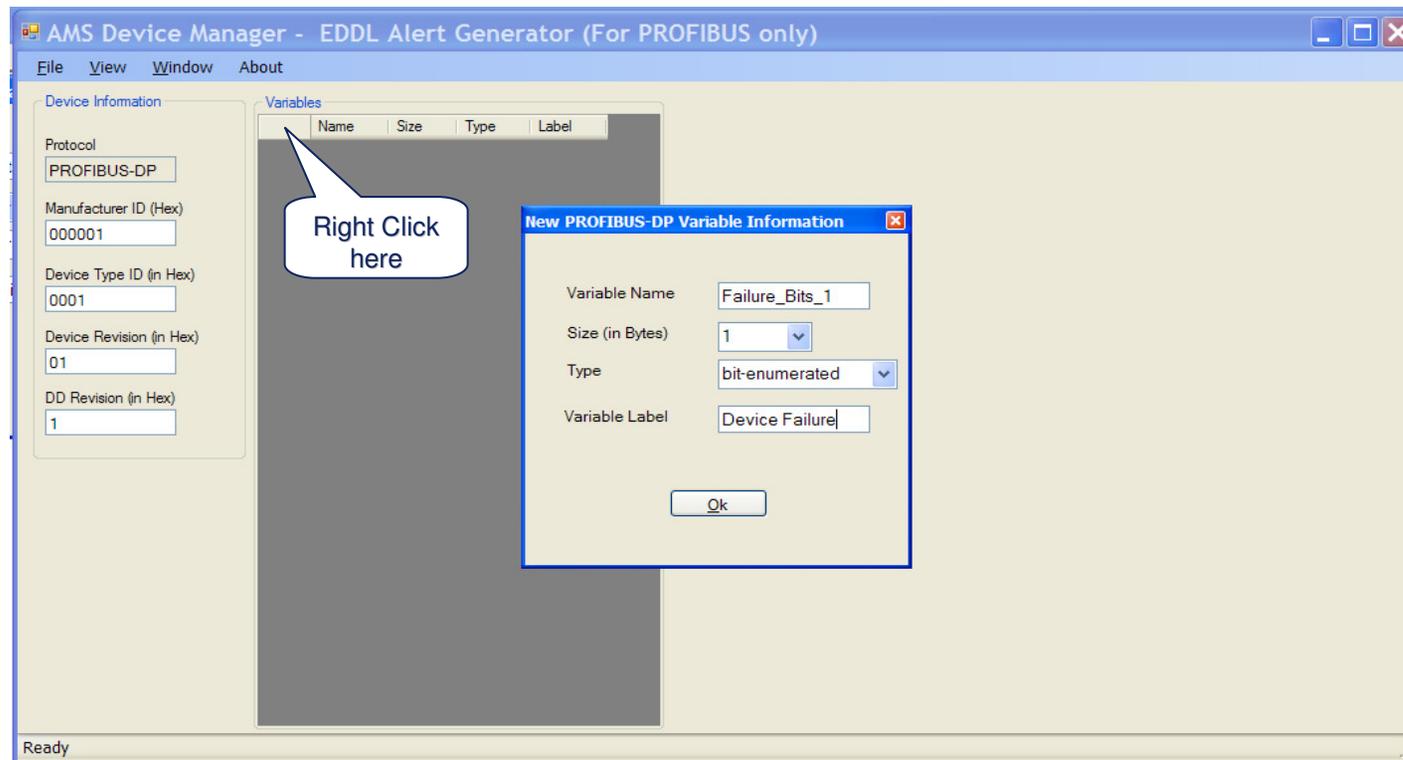
The ALERT file Tool

- Select the bits used.

- Fill in the Alarm String displayed to user

- Fill in the DD Help and Extended Help, both are optional
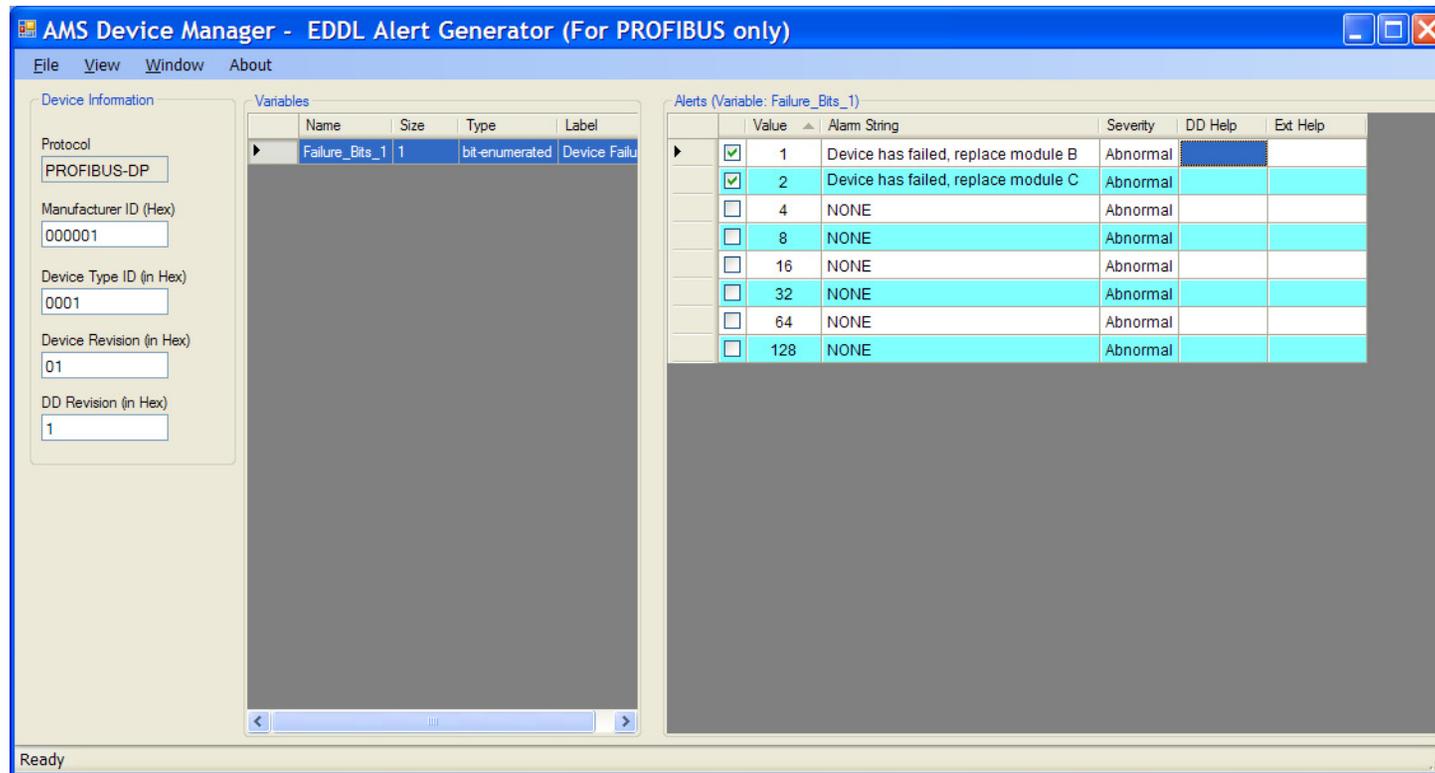
The ALERT file Tool

- Right Click and add next variable

- Enter variable information and click OK
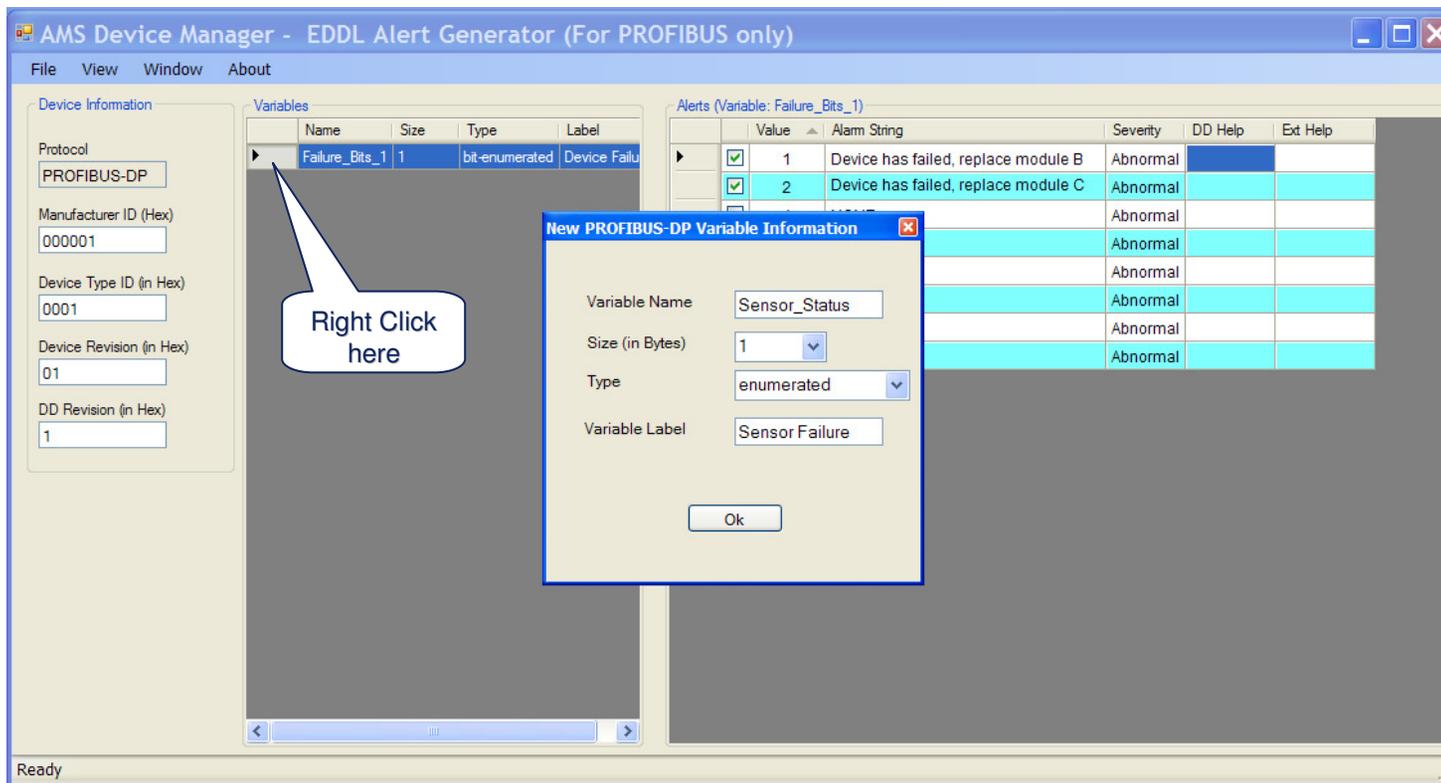
The ALERT file Tool

- Select the bits being used, uncheck the unused bits.

- Fill in the Alarm String

- Fill in the DD Help and Extended Help, both are optional
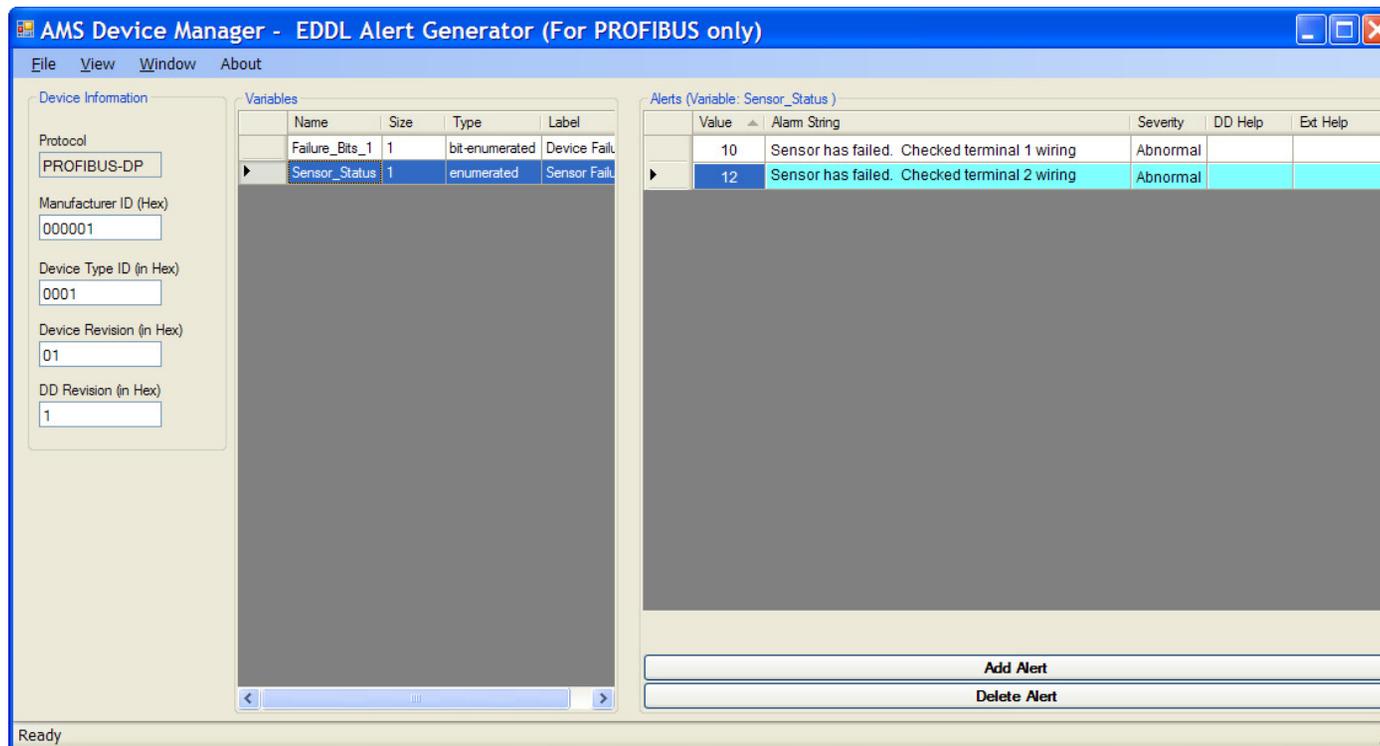
The ALERT file Tool

- Save the file.
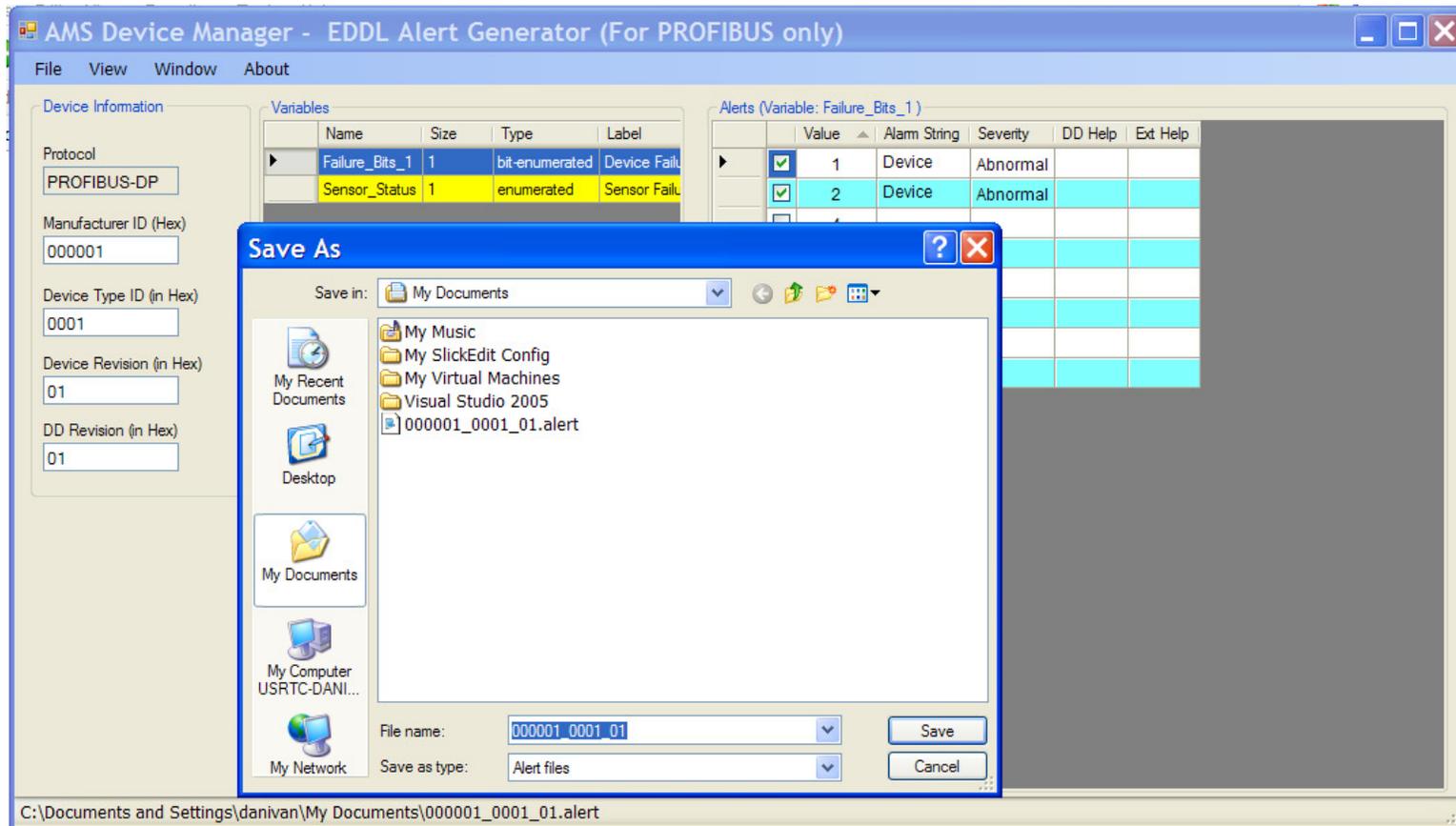
Add the File to Your Device Installation Kit

- Copy the file to your install kit

- Update your DDInstal.ini file to include the .ALERT file.

- ALERT=000001_0001_01.alert

EMERSON
Process Management