

Q How to apply “Scale” feature to data?

A There are two types of Scale features.

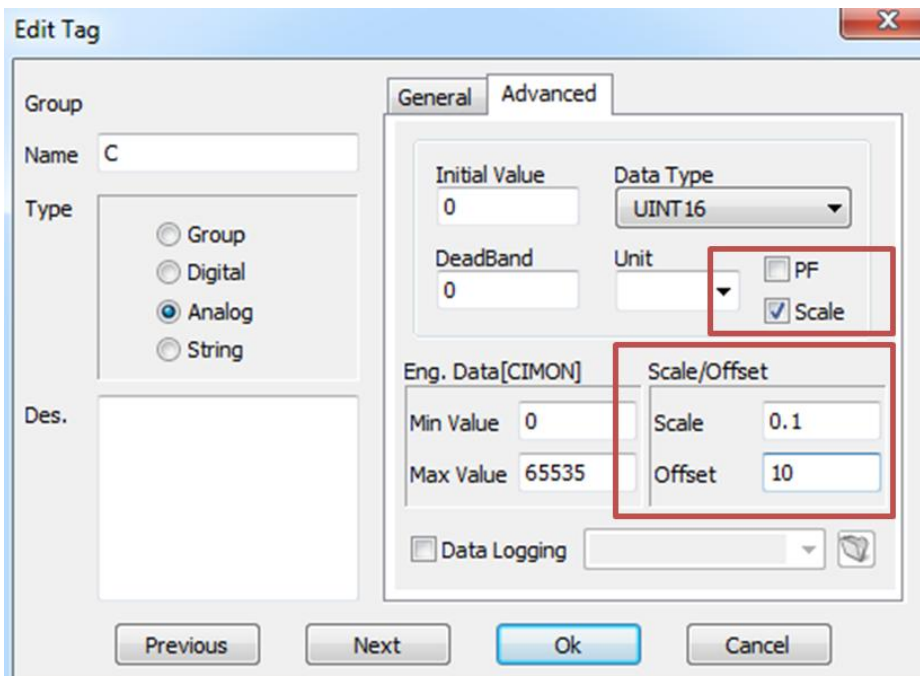
1. By setting a Scale/Offset at Tag Database

Open CIMON-D program, and go to [Tools]→[Database]. Double click an Analog Tag and move to [Advanced] tap. Enable “Scale” feature, and enter the desired scale and offset value.

$$\text{Engineering Data} = (\text{Raw Data} \times \text{Scale}) + \text{Offset}$$

Ex) Scale – 0.1, Offset – 10, Raw Data -5.9

$$10.59 = (5.9 \times 0.1) + 10$$



The screenshot shows the 'Edit Tag' dialog box with the following settings:

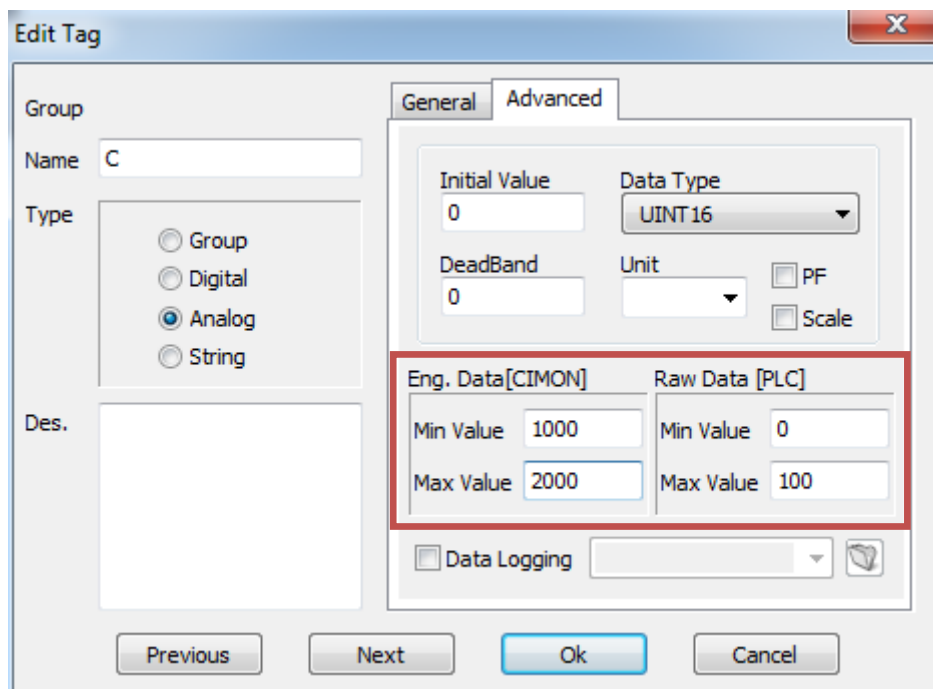
- Group:** Name: C
- Type:** Analog (selected)
- Advanced Tab:**
 - Initial Value:** 0
 - Data Type:** UINT16
 - DeadBand:** 0
 - Unit:** (empty)
 - Scale/Offset:**
 - Scale: 0.1
 - Offset: 10
 - PF
 - Data Logging

2. By setting a Maximum and Minimum value at Tag Database

Open CIMON-D program, and go to [Tools]→[Database]. Double click an Analog Tag and move to [Advanced] tap. Enter the desired maximum and minimum value for both raw and engineering data.

Ex) Min Value(Raw) – 0, Max Value(Raw) -100, Min Value(Eng.) – 1000,
Max Value(Eng.) -2000

If the raw value is 50, then engineering value becomes 1500.



※ Both Scale/Offset and Max/Min methods cannot be supported at the same time. Either one of the two has to be selected.