

Data Modulation

Concept

Data Modulation aims to provide the ability to change Data values, with time period based criteria.

This feature is very useful when you need to perform checks with different arguments depending on the period the check is executed.

For example, a use case of this feature is to set a higher threshold by night, to ignore decreased performance during backup operations.

Let's take this example to see how it can be performed.

Load of some servers becomes higher when backup is running, so we'd like to set a higher threshold during the night :

- Name : NightlyHigherLOAD
- Time Period : night
- DATA :
 - LOAD_CRIT : 10,10,10
 - LOAD_WARN : 8,8,8

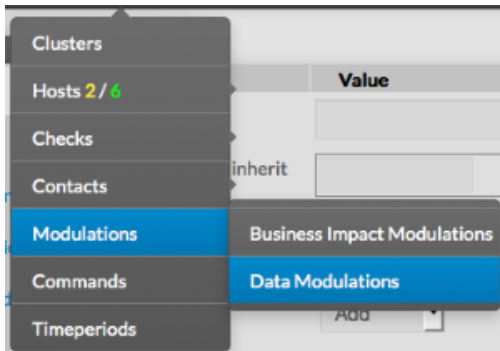
This configuration will change the threshold of Check Load during the night.

To make it working, Host or Check concerned by this modulation must have similar DATA (with different values).

In this example, if we decide to apply this modulation to Linux hosts, the following DATA should be set on the host :

- DATA :
 - LOAD_CRIT : 4,4,4
 - LOAD_WARN : 2,2,2

Data Modulations can be accessed by the Main Menu :



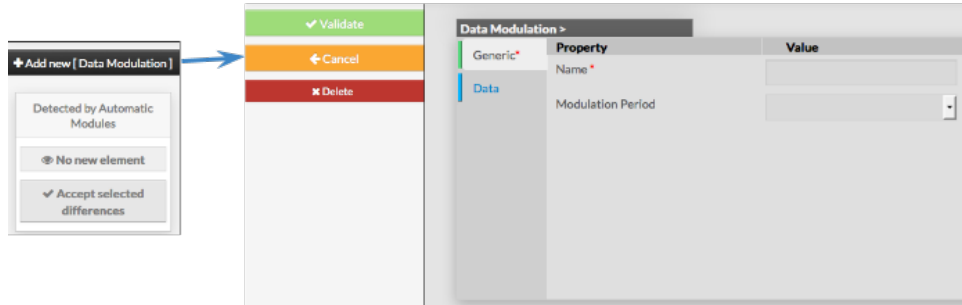
Create a Data Modulation

To create a new Data Modulation, use the button "Add new [Data Modulation]" located in the Action Menu

Data Modulation form will be displayed.

Data Modulation is composed of two categories :

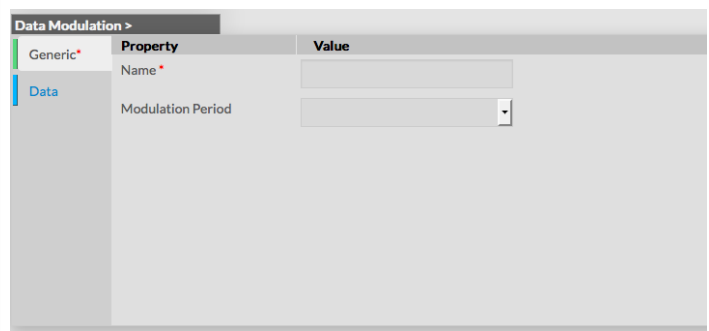
- **Generic**
- **Data**



Generic forms is used to set the following :

- **Name :**
 - used to set the name of the modulation
 - this name will be used to identify and select modulation in other elements (Hosts and Checks)
 - this field is required
- **Modulation Period :**
 - used to set the time period that will make the modulation effective
 - the value must be chosen from the dropdown list, showing all available timeperiods

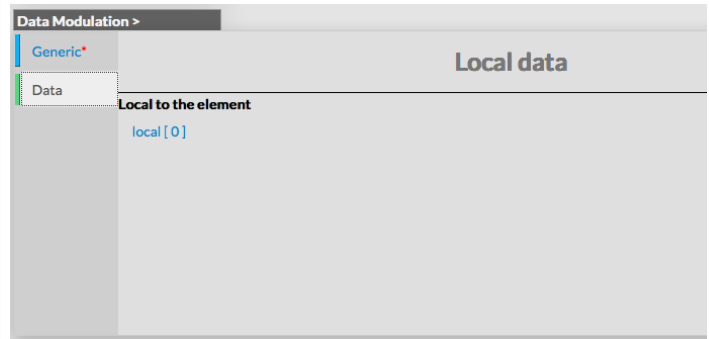
Note: Once validated, the new Data Modulation can be used on any [Host](#) or [Check](#), using their respective forms.



Data forms is used to set Key / Value pairs, that will be modified during defined period.

As **Data** on [Hosts](#) or [Checks](#), Data Modulation must be made of Keys and Values :

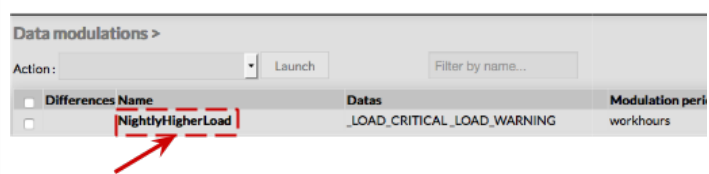
✖	LOAD_CRITICAL	10,10,10
✖	LOAD_WARNING	8,8,8



Modify a Data Modulation

To modify a modulation, first go on the Data Modulations page, by using the Main menu.

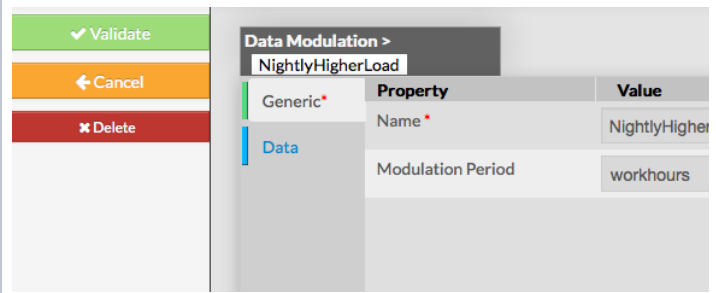
Then click on the modulation name you want to modify.



The form displayed is the same as the form used to create a new Data Modulation.
All fields are filled with modulation properties.

Once changes have been made, configuration of the modulation must be saved by clicking the Validate button available on the left menu.

Cancel button revert all changes to previous configuration.



Keys of Data can't be modified.

If you want to change the Key, you must remove the Key / Value pair, and create it again with new Key.

Delete a Data Modulation

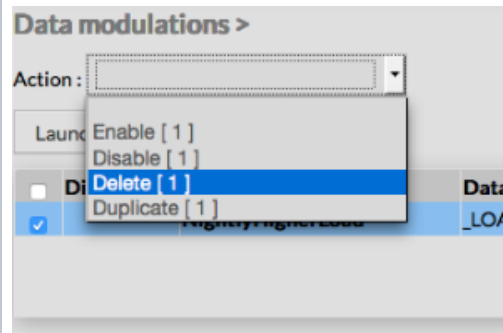
To delete a modulation, you can use the form of the modulation, or delete it directly from the list page.

From the Form page

First go to the Data Modulations page, from the Main menu, then click on the modulation name you want to delete.

Once in the page displaying the form, click on the Delete button available on the left menu.

A confirmation popup will be displayed.

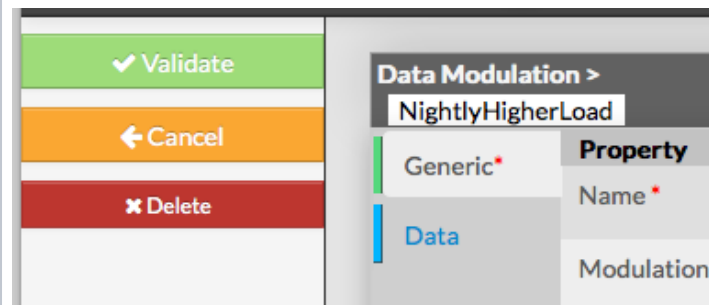


From the Main page

First go to the Data Modulations page, from the Main menu, then click on the check box placed on the first column of the table.

Use the **Action** menu on the top to select **Delete**, and click to the **Launch Button**.

A confirmation popup will be displayed.



Using the Main page gives Administrators ability to **Delete** many Modulations at once.

Duplicate a Data Modulation

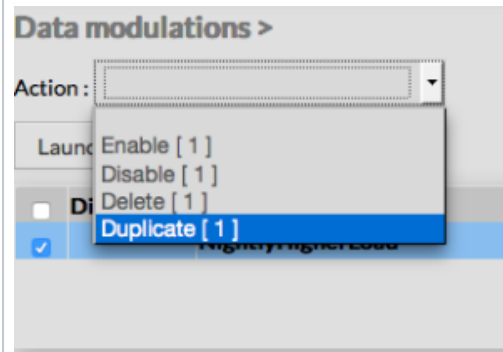
Duplication operation is very useful when similar Modulations must be added.

To duplicate a modulation, first go on the Main page listing all Data Modulations.

Then select a modulation by clicking on the check box placed on the first column.

Once selected, the modulation can be duplicated by selecting **Duplicate** in the select **Action** of the tool bar.

Duplication is executed by clicking the **Launch** button.



The name of duplicated modulation is suffixed by "**(copy)**".

Using the Main page gives Administrators ability to **Duplicate** many modulations at once.

Duplicated Modulations are totally detached and independent of the cloned Modulation.

No relation is made in the configuration.