

# NDOUtils - Data Processing Options in ndomod.cfg

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## Overview

The NDOUtils NDOMOD broker module can be configured to only processed certain types of data. This is defined in the `ndomod.cfg` file. There are two ways of defining this which are explained in this article.

## Location of settings

This article explains settings defined in the file `ndomod.cfg` which can usually be found in the nagios etc directory (`/usr/local/nagios/etc/` in Nagios XI).

## Editing Files

In many steps of this article you will be required to edit files. This documentation will use the `vi` text editor. When using the `vi` editor:

- To make changes press `i` on the keyboard first to enter insert mode
- Press `Esc` to exit insert mode
- When you have finished, save the changes in `vi` by typing `:wq` and press Enter

## Defined by Bitmask

Originally the different options have been defined by calculating a bitmask and defining this with the option:

```
data_processing_options=xxxx
```

Where `xxx` is the bitmask number.

To calculate the bitmask you would need to 'OR' the values of the following options:

NDOMOD_PROCESS_PROCESS_DATA	1
NDOMOD_PROCESS_TIMED_EVENT_DATA	2
NDOMOD_PROCESS_LOG_DATA	4
NDOMOD_PROCESS_SYSTEM_COMMAND_DATA	8
NDOMOD_PROCESS_EVENT_HANDLER_DATA	16
NDOMOD_PROCESS_NOTIFICATION_DATA	32
NDOMOD_PROCESS_SERVICE_CHECK_DATA	64

NDOMOD_PROCESS_HOST_CHECK_DATA	128
NDOMOD_PROCESS_COMMENT_DATA	256
NDOMOD_PROCESS_DOWNTIME_DATA	512
NDOMOD_PROCESS_FLAPPING_DATA	1024
NDOMOD_PROCESS_PROGRAM_STATUS_DATA	2048
NDOMOD_PROCESS_HOST_STATUS_DATA	4096
NDOMOD_PROCESS_SERVICE_STATUS_DATA	8192
NDOMOD_PROCESS_ADAPTIVE_PROGRAM_DATA	16384
NDOMOD_PROCESS_ADAPTIVE_HOST_DATA	32768
NDOMOD_PROCESS_ADAPTIVE_SERVICE_DATA	65536
NDOMOD_PROCESS_EXTERNAL_COMMAND_DATA	131072
NDOMOD_PROCESS_OBJECT_CONFIG_DATA	262144
NDOMOD_PROCESS_MAIN_CONFIG_DATA	524288
NDOMOD_PROCESS_AGGREGATED_STATUS_DATA	1048576
NDOMOD_PROCESS_RETENTION_DATA	2097152
NDOMOD_PROCESS_ACKNOWLEDGEMENT_DATA	4194304
NDOMOD_PROCESS_STATE_CHANGE_DATA	8388608
NDOMOD_PROCESS_CONTACT_STATUS_DATA	16777216
NDOMOD_PROCESS_ADAPTIVE_CONTACT_DATA	33554432

For example, in Nagios XI the bitmask of 67108669 is used which includes all of these options EXCEPT for NDOMOD\_PROCESS\_TIMED\_EVENT\_DATA, NDOMOD\_PROCESS\_HOST\_CHECK\_DATA and NDOMOD\_PROCESS\_SERVICE\_CHECK\_DATA as per:

```
data_processing_options=67108669
```

## Defined by Individual Options

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As of ndoutils2.x, these options can be defined individually instead of using the `data_processing_options` bitmask. The options are:

```
acknowledgement_data=1
adaptive_contact_data=1
adaptive_host_data=1
adaptive_program_data=1
adaptive_service_data=1
aggregated_status_data=1
comment_data=1
contact_status_data=1
downtime_data=1
event_handler_data=1
external_command_data=1
flapping_data=1
host_check_data=1
host_status_data=1
log_data=1
main_config_data=1
notification_data=1
```

```
object_config_data=1
process_data=1
program_status_data=1
retention_data=1
service_check_data=1
service_status_data=1
statechange_data=1
system_command_data=1
timed_event_data=1
```

**NOTE:** you must remove the `data_processing_options=xxxx` setting from `ndomod.cfg` if you wish to use the options above.

## Change from `data_processing_options` to individual options.

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This example shows you how to change from using the `data_processing_options` to the individual options for a **Nagios XI** server.

Edit the file `/usr/local/nagios/etc/ndomod.cfg`.

Comment out the `data_processing_options` line by adding a `#` at the beginning of the line:

```
#data_processing_options=67108669
```

Now paste the following into the file (after the line you just commented out):

```
acknowledgement_data=1
adaptive_contact_data=1
adaptive_host_data=1
adaptive_program_data=1
adaptive_service_data=1
aggregated_status_data=1
comment_data=1
contact_status_data=1
downtime_data=1
event_handler_data=1
external_command_data=1
flapping_data=1
host_check_data=0
host_status_data=1
log_data=1
main_config_data=1
notification_data=1
object_config_data=1
process_data=1
program_status_data=1
retention_data=1
service_check_data=0
service_status_data=1
statechange_data=1
system_command_data=1
timed_event_data=0
```

Save the changes to the file.

You need to restart the `nagios` service using one of the commands below:

**RHEL 6 | CentOS 6 | Oracle Linux 6 | Ubuntu 14**

```
service nagios restart
```

**RHEL 7 | CentOS 7 | Oracle Linux 7 | Debian | Ubuntu 16/18**

```
systemctl restart nagios.service
```

The NDOUtils NDOMOD broker module is now configured using the individual option instead of the bitmask.

## Conclusion

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After reading this article you should have a better understanding of how the NDOUtils NDOMOD broker module can be configured for its data processing options.

## Final Thoughts

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For any support related questions please visit the [Nagios Support Forums](#) at:

<http://support.nagios.com/forum/>

Posted by: **tlea** - Thu, Oct 22, 2015 at 7:05 PM. This article has been viewed 2982 times.

Online URL: <https://support.nagios.com/kb/article/ndoutils-data-processing-options-in-ndomod-cfg-113.html>