

# Leveraging NMIS Dependency in opEvents

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To have the NMIS dependency feature flow through the system, you will need to engage the NMIS escalation system which gives NMIS the opportunity for the dependency analysis.

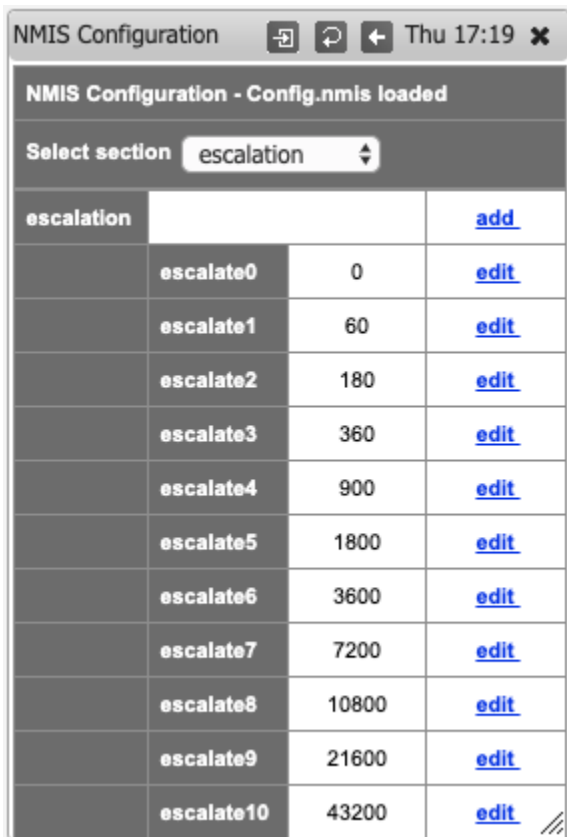
NMIS will continue to log events to the nmis event log but opEvents will be configured to use the JSON event directory.

For this to work as expected NMIS 8.6.8G should be used, or at least the notify::logJsonEvent should be backported from NMIS 8.6.8G.

If you are using opCharts, you can easily get automatic dependencies configured using the opCharts subnet tool described here [opCharts Node Dependency Management \(Root Cause Analysis\)](#).

## Configure NMIS Escalation Levels

Access the NMIS System configuration using the menu: "System System Configuration NMIS Configuration", select the "escalation" section, update the settings to be as below.



The screenshot shows a web browser window titled "NMIS Configuration" with a timestamp of "Thu 17:19". The main heading is "NMIS Configuration - Config.nmis loaded". Below this is a "Select section" dropdown menu currently set to "escalation". The main content area displays a table with escalation levels. The table has three columns: a label column, a value column, and an action column with "edit" links. The values range from 0 to 43200 in increments of 1800.

escalation			<a href="#">add</a>
	escalate0	0	<a href="#">edit</a>
	escalate1	60	<a href="#">edit</a>
	escalate2	180	<a href="#">edit</a>
	escalate3	360	<a href="#">edit</a>
	escalate4	900	<a href="#">edit</a>
	escalate5	1800	<a href="#">edit</a>
	escalate6	3600	<a href="#">edit</a>
	escalate7	7200	<a href="#">edit</a>
	escalate8	10800	<a href="#">edit</a>
	escalate9	21600	<a href="#">edit</a>
	escalate10	43200	<a href="#">edit</a>

Alternatively, modify `/usr/local/nmis8/conf/Config.nmis` and change the escalation levels.

```
'escalation' => {
  'escalate0' => '0', # now
  'escalate1' => '60', # 1 minute
  'escalate2' => '180', # 3 minutes
  'escalate3' => '360', # 6 minutes
  'escalate4' => '900', # 15 minutes
  'escalate5' => '1800', # 30 minutes
  'escalate6' => '3600', # 1 hour
  'escalate7' => '7200', # 2 hours
  'escalate8' => '10800', # 3 hours
  'escalate9' => '21600', # 6 hours
  'escalate10' => '43200' # 12 hours
},
```

## Configure NMIS with a JSON escalation at Level1

Configure NMIS to send JSON events at escalate1, you can do this through the GUI using the menu option "System System Configuration Escalation Policy", then edit the default entry and add "json:server" at Level 1 and click "Edit".

Escalation Policy

Thu 17:24

Table Escalations	
Group	default
Role	default
Type	default
Event	default
Event Node	
Event Element	
Level 0	<input type="text"/>
Level 1	<input type="text" value="json:server"/>
Level 2	<input type="text"/>
Level 3	<input type="text"/>
Level 4	<input type="text"/>
Level 5	<input type="text"/>
Level 6	<input type="text"/>
Level 7	<input type="text"/>
Level 8	<input type="text"/>
Level 9	<input type="text"/>
Level 10	<input type="text"/>
UpNotify	<input type="text" value="true"/>

\* mandatory fields.

Edit
Cancel

## Configure opEvents to use JSON logs

Configure opEvents to use the JSON event directory instead of the NMIS event log.

/usr/local/omk/conf/opCommon.nmis

Comment or remove the nmis\_eventlog section, add a section for nmis\_json\_dir

```
'opevents_logs' => {  
  'cisco_compatible' => [  
    '<nmis_logs>/cisco.log'  
  ],  
  # 'nmis_eventlog' => [  
  #   '<nmis_logs>/event.log'  
  # ],  
  'nmis_json_dir' => [  
    '<nmis_logs>/json',  
  ],  
},
```

## Restart the opEvents Daemon

```
service opeventsd restart
```

Now events will arrive in opEvents from the JSON folder, but these will have been delayed about 60 seconds and already had dependency analysis done, and possibly flap events will reduce.