

Leveraging NMIS Dependancy in opEvents

- Configure NMIS Escalation Levels
- Configure NMIS with a JSON escalation at Level1
- Configure opEvents to use JSON logs
- Restart the opEvents Daemon

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

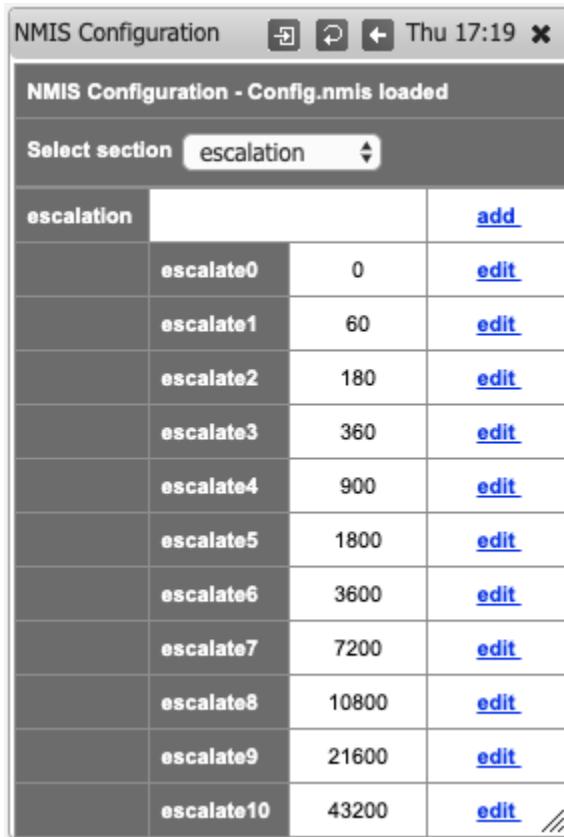
NMIS will continue to log events to the nmis event log but opEvents will be configured to use the JSON event directory.

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 dependancies configured using the opCharts subnet tool described here [opCharts Node Dependancy 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-based configuration interface for NMIS. The title bar says "NMIS Configuration". The main area has a header "NMIS Configuration - Config.nmis loaded". Below it, a dropdown menu "Select section" is set to "escalation". The main content is a table titled "escalation" with columns: escalation, value, and edit link. The table contains 11 rows of escalation levels: escalate0 (value 0), escalate1 (value 60), escalate2 (value 180), escalate3 (value 360), escalate4 (value 900), escalate5 (value 1800), escalate6 (value 3600), escalate7 (value 7200), escalate8 (value 10800), escalate9 (value 21600), and escalate10 (value 43200). Each row has an "edit" link in the third column.

escalation		add
escalate0	0	edit
escalate1	60	edit
escalate2	180	edit
escalate3	360	edit
escalate4	900	edit
escalate5	1800	edit
escalate6	3600	edit
escalate7	7200	edit
escalate8	10800	edit
escalate9	21600	edit
escalate10	43200	edit

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	
Table Escalations	<input type="button" value="New"/> <input type="button" value="Edit"/> <input type="button" value="Delete"/> <input type="button" value="Cancel"/> Thu 17:24 <input type="button" value="X"/>
Group	default
Role	default
Type	default
Event	default
Event Node	
Event Element	
Level 0	
Level 1	json:server
Level 2	
Level 3	
Level 4	
Level 5	
Level 6	
Level 7	
Level 8	
Level 9	
Level 10	
UpNotify	true
<small>* mandatory fields.</small>	
<input type="button" value="Edit"/> <input type="button" value="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 opevents 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.