

# QoS Report

## QoS Report

The QoS report is intended to provide an overview of the Quality of Service configuration and utilisation of the selected nodes.

A full report can be downloaded and viewed [Here](#)

opReports 3.0.14 Views - Modules - Help - User: nmis

### QoS Report

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Coverage: 31 day(s), from 2017-08-01T00:00:00 to 2017-09-01T00:00:00 AEST, between the hours of 00:00 to 12:00 each day  
Generated: 2017-09-01T00:00:06 AEST

**QoS for #sgard**  
Interface: FastEthernet0/1, 100 Mbps, Description: WANDSL  
Input Utilisation: 0.849%, Output Utilisation: 0.100%, Calculated from 00:00 to 12:00

Condition: QoS Class Utilisation is very low for one or more classes, indicated in yellow in PrePolicyUtil column.

| Configured |               | Reported Rates per Second |            |         |               |                |                  |              |                 |         |            |               |                  |              |         |               |
|------------|---------------|---------------------------|------------|---------|---------------|----------------|------------------|--------------|-----------------|---------|------------|---------------|------------------|--------------|---------|---------------|
| Direction  | Policy Name   | Action                    | Bandwidth  | Percent | PrePolicyUtil | PostPolicyUtil | MaxPrePolicyUtil | PrePolicyBps | MaxPrePolicyBps | DropBps | MaxDropBps | PostPolicyBps | MaxPostPolicyBps | PrePolicyPkt | DropPkt | NotBt/DropPkt |
| out        | Interactive   | Bandwidth                 | 256 Kbps   | 0.286%  | 0.01%         | 0.01%          | 0.38%            | 8606.81      | 377470.11       | 0.00    | 0.00       | 8606.81       | 377470.11        | 9.05         | 0.00%   | 0.00          |
| out        | VPN           | Bandwidth                 | 1024 Kbps  | 1.024%  | 0.00%         | 0.00%          | 0.51%            | 28109.95     | 506503.52       | 0.00    | 0.00       | 28109.95      | 506503.52        | 35.00        | 0.00%   | 0.00          |
| out        | Voice         | Bandwidth                 | 512 Kbps   | 0.512%  | 0.00%         | 0.00%          | 0.00%            | 14.42        | 243.71          | 0.00    | 0.00       | 14.42         | 243.71           | 0.02         | 0.00%   | 0.00          |
| out        | WebTraffic    | Bandwidth                 | 2 048 Mbps | 2.048%  | 0.00%         | 0.00%          | 0.13%            | 1853.76      | 128943.14       | 0.00    | 0.00       | 1853.76       | 128943.14        | 3.08         | 0.00%   | 0.00          |
| out        | class-default | Bandwidth                 | N/A        | N/A     | 0.08%         | 0.06%          | 1.22%            | 63836.41     | 1221286.41      | 0.00    | 0.00       | 63836.41      | 1221286.41       | 27.38        | 0.00%   | 0.00          |

**QoS for #esball**  
Interface: Vlan1, 100 Mbps, Description: PACNet LAN  
Input Utilisation: 0.100%, Output Utilisation: 1.168%, Calculated from 00:00 to 12:00

| Configured |                    | Reported Rates per Second |           |         |               |                |                  |              |                 |         |            |               |                  |              |         |               |
|------------|--------------------|---------------------------|-----------|---------|---------------|----------------|------------------|--------------|-----------------|---------|------------|---------------|------------------|--------------|---------|---------------|
| Direction  | Policy Name        | Action                    | Bandwidth | Percent | PrePolicyUtil | PostPolicyUtil | MaxPrePolicyUtil | PrePolicyBps | MaxPrePolicyBps | DropBps | MaxDropBps | PostPolicyBps | MaxPostPolicyBps | PrePolicyPkt | DropPkt | NotBt/DropPkt |
| in         | Mark_Business      | Bandwidth                 | N/A       | N/A     | 0.07%         | 0.07%          | 1.05%            | 65914.72     | 1049415.08      | 0.00    | 0.00       | 65914.72      | 1049415.08       | 57.25        | 0.00%   | 0.00          |
| in         | Mark_Critical_Data | Bandwidth                 | N/A       | N/A     | 0.00%         | 0.00%          | 0.01%            | 754.23       | 8740.66         | 0.00    | 0.00       | 754.23        | 8740.66          | 1.00         | 0.00%   | 0.00          |
| in         | Mark_Management    | Bandwidth                 | N/A       | N/A     | 0.00%         | 0.00%          | 0.00%            | 1647.74      | 3827.76         | 0.00    | 0.00       | 1647.74       | 3827.76          | 0.66         | 0.00%   | 0.00          |
| in         | Mark_Scavenger     | Bandwidth                 | N/A       | N/A     | 0.00%         | 0.00%          | 0.00%            | 0.01         | 0.76            | 0.00    | 0.00       | 0.01          | 0.76             | 0.00         | 0.00%   | 0.00          |
| in         | Mark_Video         | Bandwidth                 | N/A       | N/A     | 0.00%         | 0.00%          | 0.44%            | 1741.20      | 444477.51       | 0.00    | 0.00       | 1741.20       | 444477.51        | 0.68         | 0.00%   | 0.00          |
| in         | Mark_Voice         | Bandwidth                 | N/A       | N/A     | 0.01%         | 0.01%          | 0.33%            | 7122.47      | 326343.44       | 0.00    | 0.00       | 7122.47       | 326343.44        | 3.70         | 0.00%   | 0.00          |
| in         | class-default      | Bandwidth                 | N/A       | N/A     | 0.02%         | 0.02%          | 0.50%            | 22094.37     | 496679.24       | 0.00    | 0.00       | 22094.37      | 496679.24        | 13.80        | 0.00%   | 0.00          |
| out        | Mark_Business      | Bandwidth                 | N/A       | N/A     | 1.05%         | 1.05%          | 8.99%            | 105926.46    | 899392.71       | 0.00    | 0.00       | 105926.46     | 899392.71        | 95.23        | 0.00%   | 0.00          |
| out        | Mark_Critical_Data | Bandwidth                 | N/A       | N/A     | 0.00%         | 0.00%          | 0.08%            | 2716.28      | 82965.02        | 0.00    | 0.00       | 2716.28       | 82965.02         | 1.18         | 0.00%   | 0.00          |
| out        | Mark_Management    | Bandwidth                 | N/A       | N/A     | 0.02%         | 0.02%          | 0.02%            | 15142.04     | 22194.42        | 0.00    | 0.00       | 15142.04      | 22194.42         | 1.62         | 0.00%   | 0.00          |
| out        | Mark_Scavenger     | Bandwidth                 | N/A       | N/A     | 0.00%         | 0.00%          | 0.00%            | 0.01         | 1.16            | 0.00    | 0.00       | 0.01          | 1.16             | 0.00         | 0.00%   | 0.00          |
| out        | Mark_Video         | Bandwidth                 | N/A       | N/A     | 0.00%         | 0.00%          | 0.68%            | 3813.65      | 680544.57       | 0.00    | 0.00       | 3813.65       | 680544.57        | 1.03         | 0.00%   | 0.00          |
| out        | Mark_Voice         | Bandwidth                 | N/A       | N/A     | 0.02%         | 0.02%          | 1.68%            | 23527.27     | 168229.36       | 0.00    | 0.00       | 23527.27      | 168229.36        | 4.78         | 0.00%   | 0.00          |
| out        | class-default      | Bandwidth                 | N/A       | N/A     | 0.08%         | 0.08%          | 1.68%            | 77646.13     | 1663172.73      | 0.00    | 0.00       | 77646.13      | 1663172.73       | 16.01        | 0.00%   | 0.00          |

Interface: Diaper1, 820 Kbps In, 8.192 Mbps Out, Description: Escape to the Cloud Back

### Rules

To assist in the assimilation of the data, a few simple rules have been applied to the statistics to assist with highlighting some possible problem areas.

#### Queue Drop

/path/to/omk/conf/opCommon.nmis config option **opreport\_rules/qos\_droppkt (default 1)** applies:

This condition indicates that a QoS Policy is being exceeded and packets in this class have been dropped. It may or may not be impacting applications, depending on how they handle packet loss. For example, HTTP will generally handle packet loss with no problems, while voice and video do not suffer packet loss very well at all.

If an interface utilisation is greater than 0% input and 0% output;  
AND DropPkt is greater than **opreport\_rules/qos\_droppkt (default 1)** packet per second;  
THEN this class is highlighted yellow.

#### Class Under Utilised

/path/to/omk/conf/opCommon.nmis config option **opreport\_rules/qos\_lowutil (default 1)** applies:

This condition indicates that the QoS class was configured to be used for traffic, and there are VERY low levels of traffic in that class. It might be possible to update the QoS policy allocating some of this bandwidth to other classes.

If an interface utilisation is greater than 0% input and 0% output;  
AND the Policy Percent is greater than 0 percent;  
AND PrePolicyUtil is less than **opreport\_rules/qos\_lowutil (default 1)** percent;  
THEN this class is highlighted yellow.

#### Class Utilisation Exceeding Policy

This condition indicates that QoS class was configured for a certain bandwidth and the traffic levels have exceeded the configured policy. This may not be a problem, depending on QoS configuration, traffic may be being forwarded or discarded, if necessary increase the bandwidth allocated to this class.

If an interface utilisation is greater than 0% input and 0% output;  
AND PrePolicyUtil exceeds the classes configured bandwidth Percent;  
THEN this class is highlighted yellow.