

# Bandwidth Management & Optimisation

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## User perception of WAN performance.

- Voice break up
  - Real time application failure
  - Web page performance
  - Email download speed
  - On line applications and file transfer speed
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## How can we improving WAN performance?

- Remove unnecessary traffic from the WAN
  - Content & timed controlled access for welfare Internet
  - Voice - QOS avoid double hopping and double compression
  - Real time application failure - QOS
  - Web page performance - TCP acceleration, caching, pre-fetch
  - Email download speed - QOS, acceleration
  - On line applications and file transfer speed - QOS, Intelligent Caching
  - Better network design
  - Increase Bandwidth
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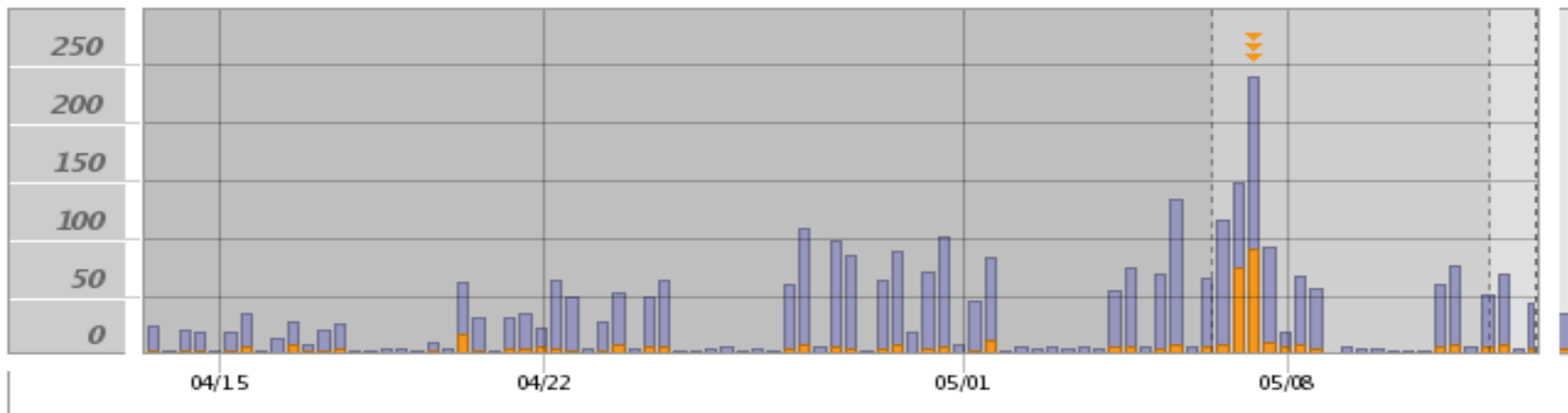


# HERMES datacomms

## Global Communications for Oil and Gas

Bandwidth Optimization (GB)

2009/04/13 08:12:05 -- 2009/05/13 08:12:05 +0000



Period:

Last Month

Application:

All

Traffic:

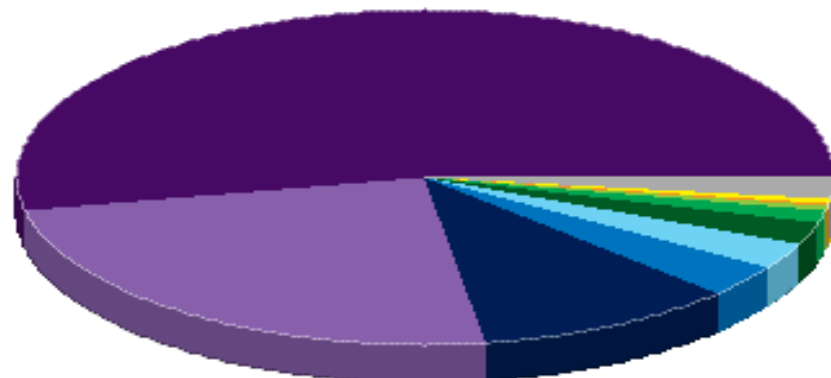
Bi-Directional

Refresh:

Off

Go

	WAN Data	453.9 GB
	LAN Data	3160.9 GB
	Total Data Reduction %	85%
	Peak Data Reduction Occurred At 07:23:40 on 2009/05/13	99%
	Optimized Bandwidth Capacity Increase	6.96X



Period:    
 Type:    
 Traffic:    
 Refresh:

	Port	Reduction	LAN Data	WAN Data	Traffic %
	Total Optimized Traffic	<div style="width: 67.35%;"><div style="width: 67.35%;"></div></div> (67.35%)	1848.6 GB	603.6 GB	--
<span style="color: purple;">■</span>	445 (CIFS:TCP)	<div style="width: 71.98%;"><div style="width: 71.98%;"></div></div> (71.98%)	988.4 GB	277.0 GB	53.47%
<span style="color: lightpurple;">■</span>	1100 (mctp)	<div style="width: 61.61%;"><div style="width: 61.61%;"></div></div> (61.61%)	448.5 GB	172.2 GB	24.26%
<span style="color: darkblue;">■</span>	80 (HTTP)	<div style="width: 61.45%;"><div style="width: 61.45%;"></div></div> (61.45%)	192.7 GB	74.3 GB	10.43%
<span style="color: blue;">■</span>	8080 (webcache)	<div style="width: 70.57%;"><div style="width: 70.57%;"></div></div> (70.57%)	58.3 GB	17.2 GB	3.15%
<span style="color: lightblue;">■</span>	25 (smtp)	<div style="width: 54.59%;"><div style="width: 54.59%;"></div></div> (54.59%)	51.0 GB	23.2 GB	2.76%
<span style="color: darkgreen;">■</span>	389 (ldap)	<div style="width: 96.79%;"><div style="width: 96.79%;"></div></div> (96.79%)	41.1 GB	1353.3 MB	2.22%
<span style="color: green;">■</span>	2967 (ssc-agent)	<div style="width: 0.00%;"><div style="width: 0.00%;"></div></div> (0.00%)	22.9 GB	23.4 GB	1.24%
<span style="color: lightgreen;">■</span>	19001 (Unknown)	<div style="width: 93.44%;"><div style="width: 93.44%;"></div></div> (93.44%)	14.9 GB	1002.6 MB	0.81%
<span style="color: orange;">■</span>	8014 (Unknown)	<div style="width: 91.67%;"><div style="width: 91.67%;"></div></div> (91.67%)	6773.6 MB	563.9 MB	0.36%



*Global Communications for Oil and Gas*

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Thank You

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