



Summary of Sitara QoS



Revision History

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1	Original Document	Ricardo Garcia	
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1 Overview

QoSWORKS is a Quality of Service appliance manufactured by Sitara Networks that sets and enforces policies that govern bandwidth usage and performance over a network connection to deliver predictable service. Quality of Service can be implemented in two ways: Packet Tagging and Protocol Prioritization. Sitara Networks is currently working with Citrix to enable ICA packet tagging. This would allow the Sitara device to differentiate ICA packet types such as screen updates and print jobs.



2 Network Architecture

The QoSWORKS device is positioned on the data path that needs to be controlled. Typical scenarios are:

- ✓ Positioned between a client subnet and a MetaFrame Subnet. Connected in series with the router.

Positioned between a LAN Site and the WAN. Connected in series with the router.



3 Grouping Traffic

The QoSWORKS device automatically discovers all network traffic coming through the device and classifies it into known traffic types. Unrecognizable traffic is classified as “Discovered” until the administrator defines it by linking it to a port number and naming it. Traffic types are grouped and filtered into the following categories:

- ✓ **Classes** – Manages one or more network traffic types. Allows the administrator to specify the bandwidth assigned to the class as well as the amount of bandwidth to which the class can burst. Each class is assigned a priority from Very Low to Very High. Higher priority traffic is given precedence over low priority traffic. Bandwidth allocation can be specified two-ways (incoming and outgoing).
- ✓ **Groups** – Nests classes and allows specific set of classes to share their bandwidth.
- ✓ **Link** – Highest-level policy breakdown. Typically used to handle all traffic to a major geographical or enterprise site.



4 Scheduling

The QoSWORKS device allows filter scheduling. This allows the administrator to define which sets of classes are in effect at a particular time. These can be configured for any day of the week and/or specific times during the day.



5 Monitoring Network Traffic

QoSWORKS lets you monitor network traffic in three ways.

- ✓ **By application** – Allows to define filters on a protocol basis (i.e. FTP, HTTP, ICA)
- ✓ **By address** – Allows defining filters by IP address. This allows the administrator to control traffic to a specific server address, a client address or particular subnet.
- ✓ **By policy** – Displays allocated, in-use and “burst” bandwidth for each enforced policy.



6 Administering QoSWORKS

Sitara provides two ways of communicating with the QoS device.

- ✓ **Command Line Interface** – Available through telnet or a terminal attached to the serial port of the device.
- ✓ **GUI** – Accessed through a Web Browser