



# Ingate Quality of Service

Today, almost everybody at the company has access to the Internet. That's why, sometimes, there isn't much bandwidth left - even for the most important traffic. By adding the Ingate Quality of Service module, you can set different priorities to different kinds of traffic, for instance letting realtime communications through, while surfers are forced to accept a slight delay. In other words: the perception of higher performance, without paying more.

## Available and efficient

Availability is a key aspect of today's business life. Person-to-person communications just have to work and are more time critical than other traffic between LAN and the Internet. There is, quite clearly, a need for giving priority to e-mail and realtime communications over surf sessions and ftp.

In another scenario, you have a public web server on your LAN, and you want to be sure that every visitor can access it with minimal delay. Then you must give priority to the traffic leaving the web server over all other communications.

For the above purposes - and many others - Ingate has developed a new module for the Ingate Firewalls™ called Ingate Quality of Service (QoS). The Ingate QoS lets you easily select and prioritize different types of traffic, in fact optimizing the usage of available bandwidth for your specific needs.

## You decide - control the distribution of bandwidth

If you have several branch offices, some of them might experience slow communications, because of unfair partitioning of available bandwidth. By using the Ingate QoS module, you can specify exactly the amount of bandwidth available for each branch.

## Priorities valid further up the network

If you want your communication to be prioritized outside your own LAN, the Ingate QoS module will let you do that. In practice, this means that network equipment further up the network - assuming they support the technology - will also give a higher priority to your most time critical traffic.

## Specifications

The QoS module for Ingate Firewall™ supports:

- Identification of traffic types according to: sender, receiver, application (e-mail, ftp, www, etc), TOS-value, DSCP-value, and packet size
- Bandwidth limitations for different kinds of traffic.
- Different priorities for different kinds of traffic.
- The ability to set priorities for network equipment further up the network.

The same QoS module is used for all Firewall models.

## Bandwidth limitations

For every interface in the firewall you can limit the bandwidth for both the entire traffic stream, and for every single type of traffic. For each type of traffic you can also set a lower limit, in order to guarantee a minimum level of service.

## Traffic priorities

Each interface in the firewall can have its own set of priorities for outgoing traffic.

## Priorities in external network equipment

By using the TOS and the DSCP field in the IP packet, equipment further up the network will be able to give priorities as well. This can be done for any kind of traffic.

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