

# GROUP QoS TECHNOLOGY BRIEF

ST Engineering iDirect's advanced Group Quality of Service (GQoS) significantly increases network operator bandwidth management capabilities when prioritizing traffic for customers in a shared network environment. The results are more flexibility with traffic configuration and prioritization, more savings over conventional QoS, and improved customer service quality.

Network operators face increasingly difficult requirements when it comes to traffic management in a mixed media environment that may include voice, video, and data. Group QoS provides a comprehensive set of powerful, state of the art features that bring robust dimensions and options for traffic prioritization and bandwidth management that spans across multiple applications, multiple remotes, even multiple sub-networks. The customer's experience and quality are improved — and determining the right tiered service levels across the pool of end customers and their applications is easier.

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## Key Highlights

Allows partitioning of both outbound and in-route group bandwidth

Operators can segregate bandwidth by groups of remotes and by applications

Support different end customers with diverse user profiles, whether multiple applications and traffic requirements or different sub-segments

Apply once-defined user profiles to new customers and network configurations, saving set-up time and future upgrades

Supports configuring Bandwidth Groups, Service Groups, Applications, Default Profile, Additional Profiles, Remotes Configuration, Managing Group Profiles, and configuration following upgrade to Group QoS

## Higher Bandwidth Management Flexibility, Savings, and Ease of Use.

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Group QoS delivers greater traffic management flexibility. There are limitless possibilities for quality of service levels and traffic prioritization. Traffic can be differentiated by group of remotes, applications, VLANS, or all of these simultaneously, enabling a network operator to define configuration profiles by service and application groups based on priority, cost, Committed Information Rate (CIR) and Maximum Information Rate (MIR). Customers with diverse user profiles can be grouped into the same bandwidth pool, providing substantial savings in terms of space segment costs. These configuration profiles are easy to replicate, allowing the network operator to reconfigure even the most sophisticated user profile on a large network scale.

## Flexibility For Even the Most Diverse User and Customer Profiles

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Group QoS gives operators new flexibility to better support customers, even with distinct user profiles involving multiple applications and traffic profiles (e.g. VoIP prioritization) or sub-groups (regions, end-customers). Segregate bandwidth by real-time applications (VoIP, video conference) versus non real-time applications like data file transfer across shared satellite bandwidth. It even allows bandwidth pool segmentation by end user account or by VLANS.

Whatever the case, with Group QoS, the unique traffic and quality requirements for each group are never compromised.

Group QoS opens a world of possibilities for quality of service levels, bandwidth management, and traffic prioritization. Group QoS provides significant enhancements that facilitate the partitioning of outbound and inbound bandwidth groups.

Traffic can be differentiated by:

- Groups of remotes
- Applications
- VLANS
- All of the above at the same time

Group QoS utilizes a hierarchical bandwidth methodology whereby each bandwidth, service, and application group can be configured by:

- Priority
- Cost
- Committed Information Rate (CIR)
- Maximum Information Rate (MIR)