Quality of Service

Function for prioritized transmission of the video stream with DSCP (Differentiated Services Code Point)

The **5000 series cameras** and the **Panomera® systems** of the **Topline and Ultraline** series have been equipped with a special **function for prioritized transmission of the video stream** over the network. If the network is configured correctly, the **live display of the video stream** on a client can be significantly **optimized by avoiding jerking and frame drops**.

The **Quality of Service** function is available as of firmware version 8.4.1.9.

Functionality

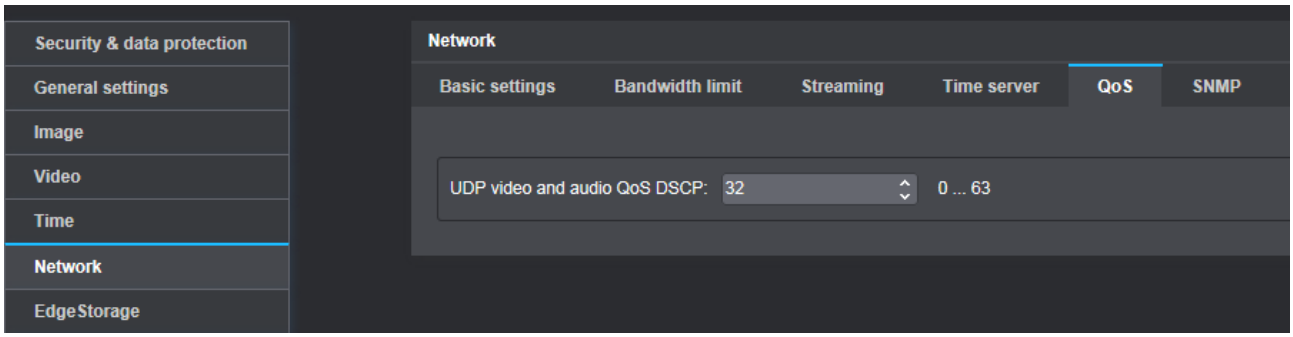
The **Quality of Service** function **flags the data packets** of the video stream with a special DSCP code. During transmission over the network, the **switches detect these data packets** and assign the highest priority to their transmission. In the event of load peaks, a switch reduces the bandwidth for other data packets (e-mail, VoIP, FTP, etc.) and **automatically increases the bandwidth for the video stream**. This **avoids a data jam** and all data packets reach the client for **smooth display of the video stream** almost in real time.

Note that the preferred transmission of video streams can seriously disrupt other services (e-mail, VoIP, FTP, etc.).
The use of **Quality of Service** should always be discussed with the network administrator.

Configuration

The **Quality of Service** function is set in the **Network > QoS** dialog.

For Panomera® systems the QoS configuration is done on the master module.
The set DSCP value is automatically applied to all sub modules.



The **DSCP code identifies the data type** and forwarding behavior of the switch. A higher DSCP code therefore does not mean a higher priority but identifies a different data type with a different forwarding behavior. In conjunction with **Cisco Catalyst switches**, for example, **DSCP code 32** must always be used **for video streams**.

Notes

Please note the following information on the correct configuration of the network:

The DSCP code for video streams depends on the switches used in the network.
Refer to the manufacturer's product documentation.

All nodes of the network (switches, trunk ports) have to be configured uniformly to prioritize video streams.

No special configuration is required for client workstations.