How is live video sent over the network?
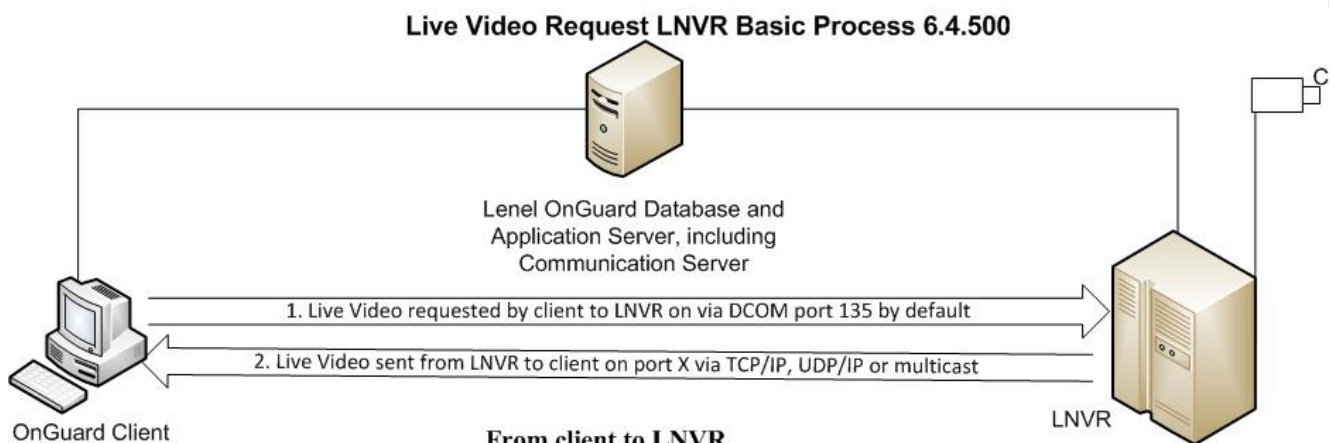
Product Name

How is live video sent over the network?

General Information

The attached diagram shows port, protocol, and directionality in a visual format. Refer to the *Advanced Installation Topics* guide, "Ports Used by OnGuard" chapter, for a complete list of ports that are required.

Live Video Request LNVR Basic Process 6.4.500

Lenel OnGuard Database and Application Server, including Communication Server

1. Live Video requested by client to LNVR on via DCOM port 135 by default

2. Live Video sent from LNVR to client on port X via TCP/IP, UDP/IP or multicast

OnGuard Client

LNVR

From client to LNVR

DCOM uses TCP port 135 to establish new connections. TCP port 135 must be open on the LNVR. Once a client connects to that port, the Windows DCOM/RPC subsystem determines the type of the actual communications. This type can be either TCP/IP or UDP/IP based on the machine settings.

From LNVR to client via TCP/IP

Live video is requested by the client from LNVR on a) port auto-negotiated by the two Windows machines or b) port specified by user on the LNVR via the LnrNi utility, and any free port on the client

From LNVR to client via Unicast UPD/IP

If live video is configured to use UDP/IP, the OnGuard client determines which port should be used. The range of ports can be limited by launching LnrNI utility on the OnGuard client machine and specifying the port range to use under the **Use UDP/IP** check box.

From LNVR to client via Multicast

If live video is transmitted in multicast mode, the LNVR will choose which port should be used by each channel. The range of ports can be specified by launching the LnrNI utility on the LNVR machine, selecting the "Recorder Network Settings" tab and entering the first multicast port. The actual port number for each channel is defined by adding the first multicast port and the channel number. For example, if the first multicast port is 2000, then channel 1 will use port 2001, channel 2 will be 2002, etc. When LNVR starts for the first time, it will randomly choose a multicast address for use with live video and stores this address in the **LNR.XML** file. If a different address is desired, this value can be changed by editing the LNR/Recorder/Settings/MulticastIP element in the **LNR.XML** file.

Note: This information may change over time. For the most accurate information, please see the Ports Used by OnGuard chapter of your version's Advanced Installation Guide.

Applies To

LNVR (All versions)

Additional Information