

Using the SmartClass™ TPS VideoCheck to Rapidly Verify IP Video Channel Service and Quality

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The JDSU SmartClass Triple-Play Services (TPS) tester is the ideal tool for technicians who install triple-play services or who must quickly repair service-quality issues.

Test Challenge

IP video lets service providers and network operators differentiate their offerings by providing a large variety of video channels. Time constraints placed on field technicians to quickly validate video service coupled with typical offerings that include one hundred or more channels make it nearly impossible for them to verify channel service availability and quality on all channels. However, it is critical to verify these for each channel, because content can come from various global sources and locations.

Addressing the Challenge Using the SmartClass TPS

The SmartClass TPS lets field technicians test IP video service availability on all channels at unprecedented speed. The test access is over DSL or Ethernet as shown in Figure 1. With a program channel list loaded on to the unit via USB, technicians must only perform a one-button test, as shown in Figure 2. Testing with VideoCheck cuts test time by one third by conducting tests simultaneously on three concurrent video streams.

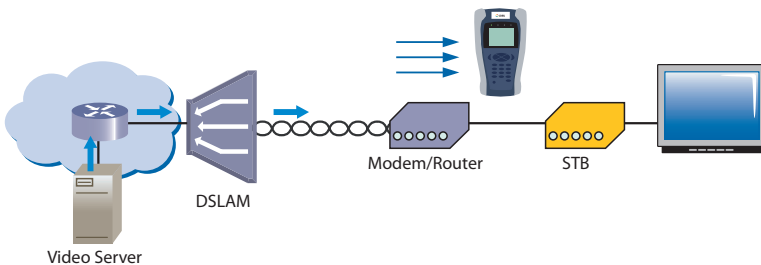


Figure 1. SmartClass TPS can test three video streams simultaneously which significantly reduces test time for a full VideoCheck.



Figure 2. The SmartClass TPS VideoCheck automated testing reduces the complexity for field technicians and verifies all available video channels with unprecedented speed.

Figure 3 shows the VideoCheck summary screen that lists the program number, the program name, and the test status on availability and quality of service (QoS) rating. Field technicians can select one of the channel line items to drill down to the detailed QoS results shown in Figure 4. Detailed QoS results include loss, jitter, join and leave latency, and the error indicator.



Figure 3. The SmartClass TPS VideoCheck channel summary shows each channel's availability as well as the QoS.

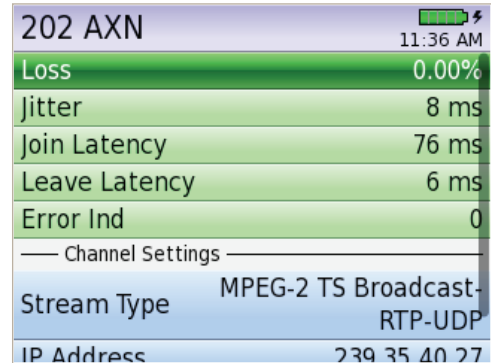


Figure 4. Detailed QoS results for each channel tested in the SmartClass TPS VideoCheck.

Conclusion

The SmartClass TPS VideoCheck verifies the availability and targeted QoS performance for all IP video channels to meet subscriber expectations. Cutting test time by one third and providing the ability to manage multiple channel lists for a fast or complete test, or to allow testing of specific premium channels with higher quality expectations, makes IP video testing more convenient and easy for field technicians who install and repair IP video services.

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