

## IP Video Broadcast Auto Detect using the SmartClass™ TPS

### Test Challenge

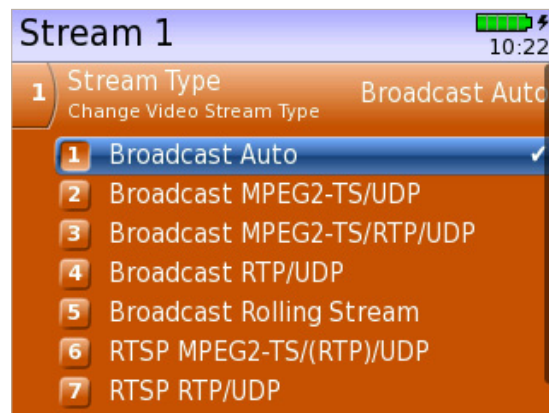
The number of Internet Protocol (IP) Video stream formats managed by today's field technician can create a confusing environment. For each test case, technicians may not know if they are testing Broadcast MPEG-2<sup>1</sup> Transport Stream (TS) using User Datagram Protocol (UDP), MPEG-2 Transport Stream using Real-Time Transport Protocol (RTP)/UDP, Broadcast directly mapped into RTP/UDP, or Broadcast Rolling Stream. An equal challenge operators and service providers face is training their technicians to efficiently use IP television (IPTV) test gear.



The JDSU SmartClass TPS Tester is the ideal tool for technicians who install, troubleshoot, and maintain Triple-Play services

### Addressing the Challenge with SmartClass TPS

Technicians simply select the SmartClass TPS Broadcast Auto feature for STB (set top box) Emulate Mode. The Broadcast Auto feature automatically detects all of the broadcast stream types shown in the screen below and the port numbers used. The technician only has to enter the IP address to join the IP Video stream under test. Simplifying IPTV testing ensures that technicians use the test set correctly at any stage of the network deployment—even if the network architecture changes.



SmartClass TPS Broadcast Auto stream format selection

1. MPEG-2 is the Motion Picture Experts Group 1 standard for compressed video at 4 to 9 Mbps.

**Conclusion**

The SmartClass TPS Broadcast Auto feature lets testers automatically detect the stream format and port number used and thus provides simplified IPTV testing, resulting in fewer mistakes in the field. Also the feature greatly reduces training time for field technicians who must use an IPTV test set to perform their job.

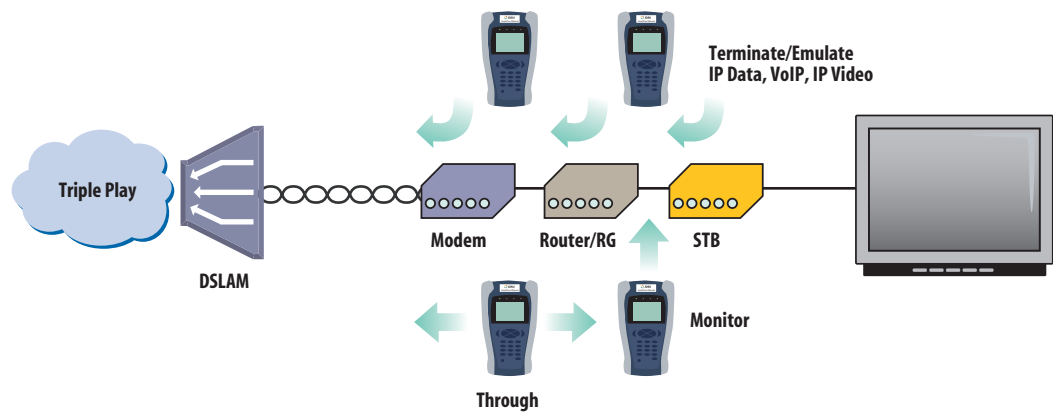


Figure 1 Operate the SmartClass TPS in Through/Monitor Mode and Emulation Mode

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