



ELECTRONIC COUCH POTATO™ (ECP) & ECP CONSOLIDATOR™

INTRODUCTION

Monitoring and measuring true end-user Quality of Experience enables IPTV and DTV operators to enhance their competitive position. Expanding on the Pixelmetrix philosophy of providing end-to-end visibility, the Electronic Couch Potato™ (ECP) monitors key television parameters after the Set Top Box (STB).

THE ELECTRONIC COUCH POTATO™ (ECP)

The ECP utilizes the decoded signal from a consumer grade Set Top Box in order to fully and truly evaluate the user's Quality of Experience.

The ECP reports measurements to the central Consolidator. Multiple service quality parameters, such as network transmission quality, audio/video quality and most importantly, overall service quality and availability are intuitively presented on the central management console - The ECP Consolidator™. The Consolidator can remotely control, configure and manage large numbers of ECPs spread across the delivery network.

KEY FEATURES

- Monitors and reports IPTV quality of experience from end-user point of view
- Controls STB through built in IR controller to emulate the end-user changing channels
- Reports freeze frame, blackout, audio tone, audio silence on STB-decoded video
- Automatic checking of actual channel switch time, program line-up and more
- ECP Consolidator™ software controls and correlates thousands of end points
- Flexible architecture supports user-programmable test scenarios

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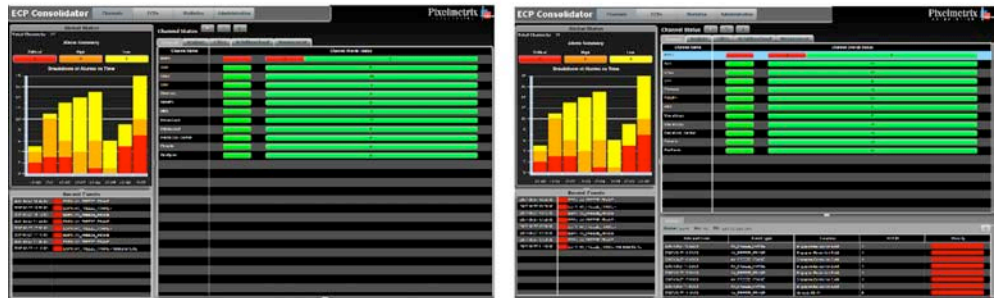
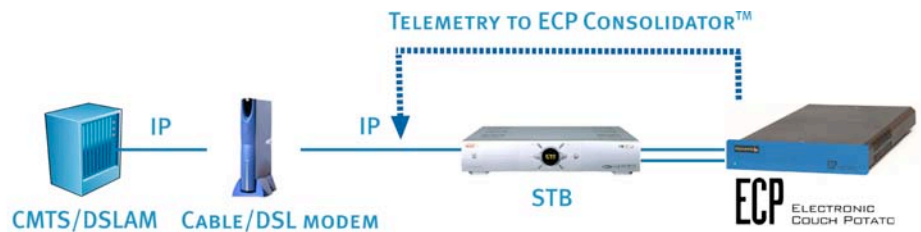
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ENVIRONMENT



The ECP can be deployed in IPTV cable and satellite broadcast systems.

Technical faults at each protocol layer are identified, but more importantly, the impact of those faults on the overall service quality are highlighted to the operators.

An important component is to collect telemetry and fault information from multiple points along the transmission chain, then consolidate that set of information to one or more central control and observation points.

