Deterministic Switching in IP Networks Do We Care?

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What is Deterministic Switching

 Changing from one packetized flow to another at either a prescribed exact time or location in the packet flow





Media Switching History

- Mechanical Switching (Glitch Switch)
- Electronic Crosspoint Switching
 - Select and Take
 - Multiple Levels of Content with Breakaway
 - Remote Control
 - RP 168 Vertical Interval Switching *
 - Frame Accurate Switching*
 - Automatic input timing*
 - Time Defined Control of Switching Execution*



* Requires deterministic switching



Application

- Deterministic Switching Applications
 - Master Control (Presentation)
 - Commercial Insertion
 - Production Switcher (Vision Mixer) Front End
 - Assignable control panel
 - Aux Bus
 - Cuts Only Editing
 - Live Real Time Switching





How are These Functions Provided Today?





Is There a Need For IP Network Switches to Provide These Functions?





Can Current IP Network Switches Provide Deterministic Switching?





If So, How? – If Not, Why?





Can 2110 Signals be Switched Deterministically?





Is this an Issue to Pursue?



