GMPLS Emulator **KDDI**
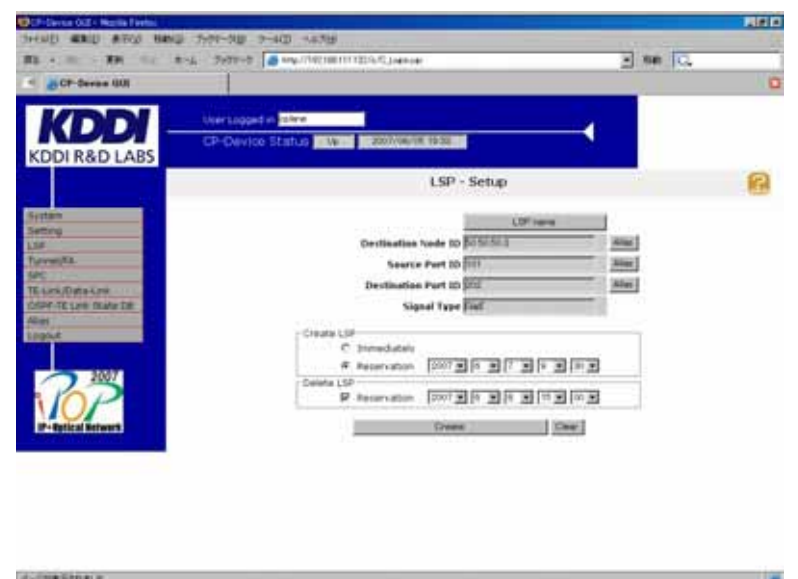**KDDI R&D LABS**

- **Objectives**
  - In order to accelerate the introduction of GMPLS technologies, KDDI R&D is developing
    - GMPLS Emulator
      - To enable non-GMPLS capable equipment to be controlled by GMPLS
      - To envision the future lambda path service based on GMPLS
    - GMPLS protocol tester
      - To internally test GMPLS protocols
      - To evaluate GMPLS functions
      - To conduct a kind of GMPLS conformance tests

- **GMPLS Specification**
  - Hardware
    - Linux box
  - Software
    - Signaling basically follows
      - RFC 3209
      - RFC 3471
      - RFC 3473
    - Routing basically follows
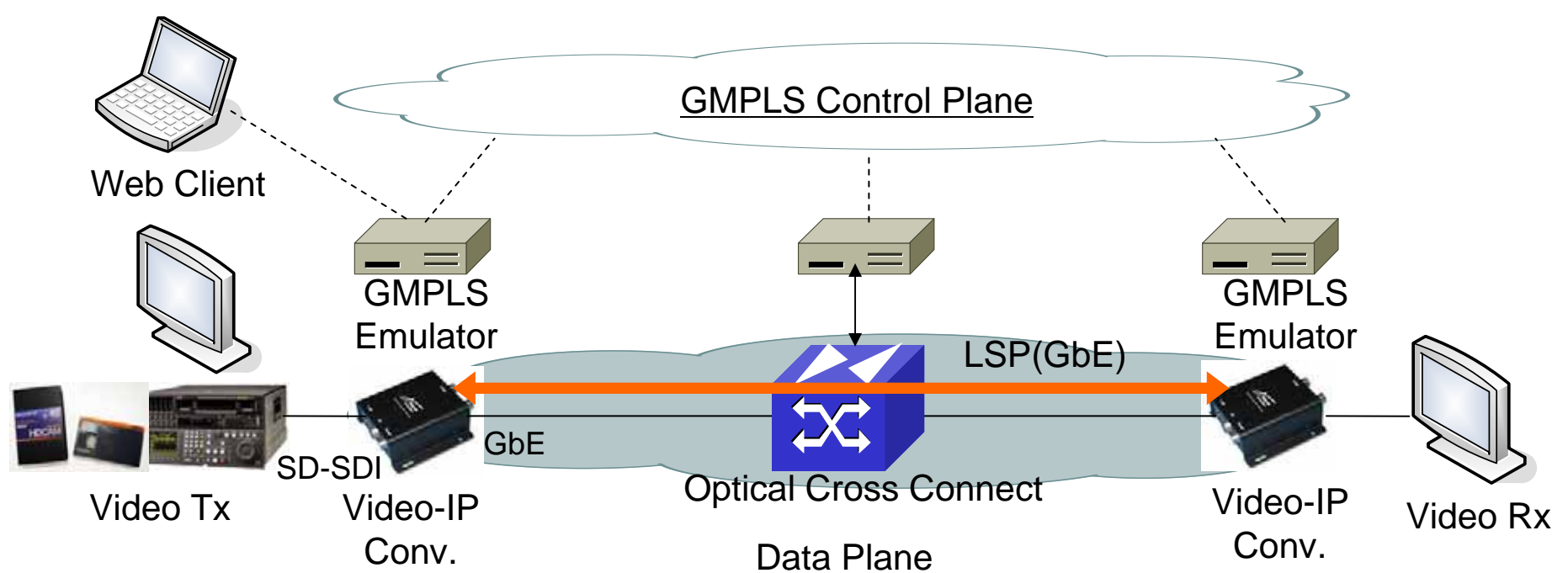   - RFC 3630
      - RFC 4202
      - RFC 4203

- **GUI**
  - Web-based user interface

■ Demonstration

- □ GMPLS lambda-LSP is provisioned for GbE connection.
- □ 270Mbit/s uncompressed (SD-SDI) video signal is transported

■ Remarks

- □ KDDI R&D developed the GMPLS Emulator
    - ■ to enable a non-GMPLS equipment to support GMPLS.
    - ■ to provide a GMPLS lambda service.
    - ■ to conduct a GMPLS protocol test.

GMPLS Emulator helps KDDI to introduce GMPLS technology in KDDI network.