IP Server | OpenNet

IP-SERVER is a software solution combining 2 essential functions:

- IP-SERVER **PLAY**: Play Streaming video feeds in real time and in broadcast quality over an IP network.
- IP-SERVER **RECORD**: Record Streaming video feeds arriving over an IP network connection (from professional hardware encoder or gateway devices).

The control interface (IP ADMIN) enables:

- Controlling several PLAYERS / RECORDERS from a single remote interface.
- Start PLAY, PLAY LOOP or RECORD operations.
- Selecting a MULTICAST (or UNICAST) address and the sending and receiving ports.
- Selecting the media source to play or to be recorded.
- Simultaneously viewing of up to 3 video feeds.

ADVANTAGES and PERFORMANCE

Advantages :

- A software solution that offers a low cost solution architecture:

A simple Workflow is all that's needed to record or broadcast a professional quality video stream.
To record: only an SDI source, a hardware encoder and a computer are needed.
To broadcast: only a computer, a hardware decoder and a monitor are needed.

The machine's performance is directly related to the numbers of players and recorders (ranging from 1 to N players depending on the machine's core number).

IP distribution can be made using existing computer cabling.

Performance :

- FULL HD
- 1 PLAYER per core CPU
- Professional high bit rates
- The feed is not altered whatever the number of Play/Record.

FEATURES

Compatible with:

- SD / HD
- MPEG2-TS, MPEG4-TS (H264)
- FEC (Forward Error Correction)
- Multicast / unicast.

Remote control: Independently of the control interface, IP SERVER can be managed using GPI, the LOUTH automation protocol, IP or XML.

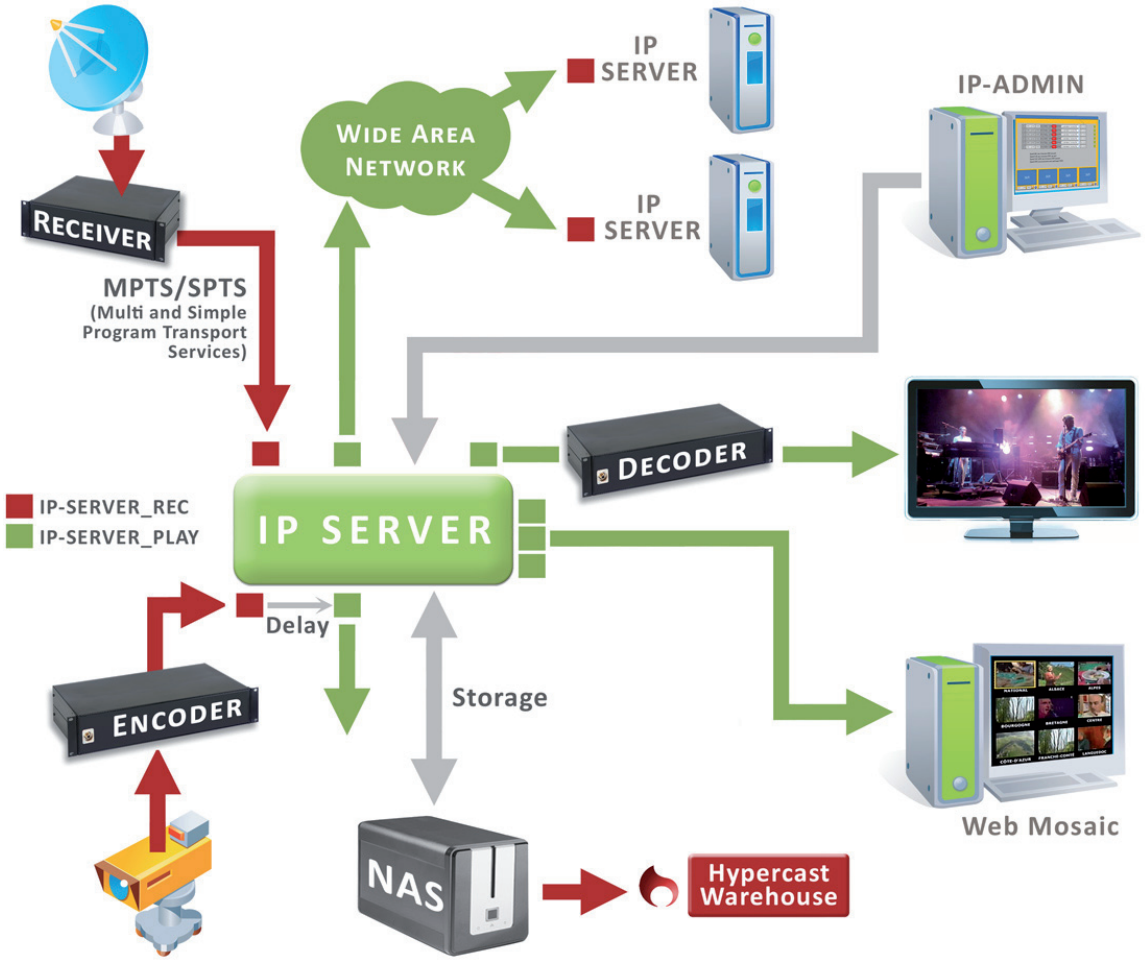
PLAY Functionality:

- Broadcast of SPTS or MPTS video
- Forward error correction (FEC) mechanism
- PLAY while RECORD (Configurable schedule settings)
- Broadcast via multicast or unicast.

RECORD Functionality:

- Record an SPTS or MPTS stream
- Forward error correction (FEC) mechanism.

IP Server : Low cost - SD / HD - FEC - MP2 / H264



Use cases

- Coupled with IP decoders, IP SERVER can be used as a broadcasting video server.
- Simultaneously switch the same video to several targets (multicasting) for performance gains and considerable cost reduction (1 to N).
- Simultaneously record all the programs from a satellite feed (requires a DVB-H / ASI gateway).
- Record the video sent by an IP camera directly to a hard drive.
- Transmit a recording with a delay (Time-shifting function).
- IP Gateway: receive an SPTS or MPTS on an IP address and send it delayed (25 ms) on to another IP address in order to permit, for example, the real-time internal broadcast of a meeting .