# EVS TUTORIALS
## IPDIRECTOR GENERAL INTRODUCTION

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IPDirector

The purpose of this manual is to introduce you to IPDirector and its main functions.
An overview of IPDirector's applications and modular uses will be featured in this manual.

1. IPDirector Workflow

IPDirector is a suite of software applications designed to enhance the workflow of a television production.

IPDirector uses its applications to control multiple channels from several EVS video servers connected to the XNet SDTI network.
The IPDirector system sees the XNet network as one large server whose storage is divided into various sections accessible by any channel from any EVS server within the XNet network.

2. IPDirector Suite

The IPDirector suite allows:
- Ingest control,
- Metadata management,
- On the fly editing,
- And play out scheduling.
All are managed from a single interface.
3. Interchangeability

Together with XTAccess, EVS’ gateway software, media interchange is facilitated between EVS’ video servers and third-party tools such as post-production, file-based camcorders, storage, etc.

IPDirector Applications

There are several applications designed for use on a production. Each is integrated into the overall package and is accessible via installed software licenses.

Each application can be used to perform different tasks.

The following diagram represents the production process and the role of every application.

1. Channel Explorer

The Channel Explorer provides a comprehensive overview of the entire XNet network:
- EVS video servers,
- XF2 removable storage,
- XStoreSE media storage,
- High resolution and low resolution streams,
- And VTR devices,
all appear as individual items in the Channel Explorer.

2. **Recorder Panel**

   The Recorder Panel is the graphic user interface required to control recorder channels of EVS servers. It displays the channel record status and allows to start or stop recording.

3. **Ingest Scheduler**

   The Ingest Scheduler enables ingest and stream control - automatically or manually - from any record channel controlled by IPDirector.

4. **IPLogger**

   The IPLogger simplifies the addition of descriptive data to media while centralizing logging information. It enhances operation speed by automatically associating logging data to content on XNet network servers.

5. **Database Explorer**

   The Database Explorer displays and manages:
   - XT/XS clips,
   - Nearline files,
   - Playlists,
   - Timelines,
   - Bins and logs for media available on the EVS XNet network.

6. **VTR Control Panel**

   The VTR Control Panel allows a Video Tape Recorder to be controlled by IPDirector. It enables the manual digitization of tapes or batch lists.

7. **Player Control Panel**

   The Player Control Panel is designed to efficiently control media browsing and playout with VTR-like functions to clip, trim and play back media. It also permits to:
   - Build and play clip lists,
   - Play back media in loop or bounce-modes,
   - Synchronize playback on ganged channels.
8. IPEdit

IPEdit allows complete timeline editing. Drag-and-drop and keyboard shortcuts make it easy to perform video and audio transition effects. Video graphics and voiceovers can be added to the timelines.

9. Playlist Panel

The Playlist Panel allows the creation, modification and playing of multiple playlists on air using an efficient and extremely flexible workflow.

A variety of play out effects can be defined, different stop or start options can be programmed, and tags can be defined to carry out specific audio or video actions during play out.

10. AB Roll Playlist

The AB Roll Playlist application is used to control and play material on up to 4 channels (A to D) simultaneously.

IPDirector Modular Use

Different applications from the IPDirector suite can be used modularly according to the setup and workflow.

1. Standalone Mode

Each IPDirector workstation can function as a standalone system while providing all applications for the production: from ingest to play out.
2. **Modular Mode**

Or several workstations can be used, running only the applications required for a specific task. Each workstation is connected through Ethernet with a central Database.

When networked together, IPDirector Database information is available to all other workstations used in different production areas while enhancing the overall production workflow.

In this modular mode, the first IPDirector station commands the ingest and is able to control multiple recordings and the digitization process of tapes on EVS Servers. This can be complemented with a logging system to associate data with each recording. The logs created will be accessible by all other users on the different workstations.

Other IPDirector workstations dedicated to the production phase, allow a control of media while making clips, playlists, timelines, bins and logs. They also allow the transfer of media; to third-party editing systems for finalizing edits, for instance.

Once the edit has been finalised, it can be sent back for playback to an EVS server.

At the end of the production process, another workstation can allow the playback of any clips or playlists. It also allows Fill & Key playback with perfect time code accuracy.