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INTRODUCTION

IPWeb provides remote browsing while facilitating the search for content in the IPDirector database from a distance.

Part of the infrastructure needed to support an IPWeb system is often included in any EVS studio facility which usually includes a number of ingest servers and central storage. This document describes and explains required hardware for a proper IPWeb setup.

The initial version of IPWeb is based on the use of MS Smooth streaming files. These files are specific to IP Web and not readable by IPDirector. The smooth streaming files are stored on a web storage system, separate from IPDirector Nearline. XTAccess generates the web formats from IPDirector production of lo-res.

TYPICAL WORKFLOW DESCRIPTION

IPWeb offers to the end user a similar set of features than IPBrowse. The architecture of the product is, however, very different.

The IPWeb is based on a number of different functional blocks:

> **The administration application** allows the user to configure and monitor IPWeb.

> **The workflow engine** is a decision process engine. It receives IPD notifications and determines whether or not a media needs to be transcoded according to a filter that is defined in the administration application. If a media needs to be transcoded, a transcoding request is sent to Xsquare. The workflow engine then monitors the progress of the transcode via Xsquare. The workflow is based on web technologies and is hosted on an IIS Server.

> **IPWeb application and media server**: the web application itself. It is based on a Silverlight client and is hosted on MS IIS. The IPWeb application communicates directly with IPDirector through the IPD API.

> **IP Web Medias**: are exposed by the web server through MS IIS with media services. They use MS Smooth streaming technology. Media are in MS Smooth streaming formats. Usually, there will be 3 or 4 bitrates for the same media.

> **The services**: provide back end functionality. There are four services:

  > **Database Data Access**: Provides access to the IPWeb database for all the other components (Gateways service, Workflow, Thumbnail service, IP Web application, Admin Application).

  > **Gateways**: They connect to APIs and focus on notifications (IPD API, Xsquare). The gateways service is used by the workflow engine and admin monitoring pages.

  > **Thumbnails**: The thumbnail service is used by the IP Web application to access IPDirector’s thumbnails. This service also allows thumbnails to use their UNC path while serving the web server in http.

> **The Database**: The IP Web Database holds all configurations specific to IP Web as well as a list of transcoded media and their URL.
In order to host all the software bricks detailed in the last point, the following hardware infrastructure is needed:

> In the DMZ
Because the web clients are accessing the IP Web through the public internet, the IP Web servers need to be in an isolated part of the network called the DMZ.
The web storage is accessed by the web servers and also needs to be in the DMZ.

> In the LAN
All the main **EVS infrastructure** (IPD, servers, XTA, Xsquare) is in the LAN.
The **services** as well as the **administration** web site run in the LAN, on a machine called the workflow manager.
The **IP Web database** is hosted on the same hardware as IP Director DB.
The **XT Access** for web transcoding are also on the LAN.
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