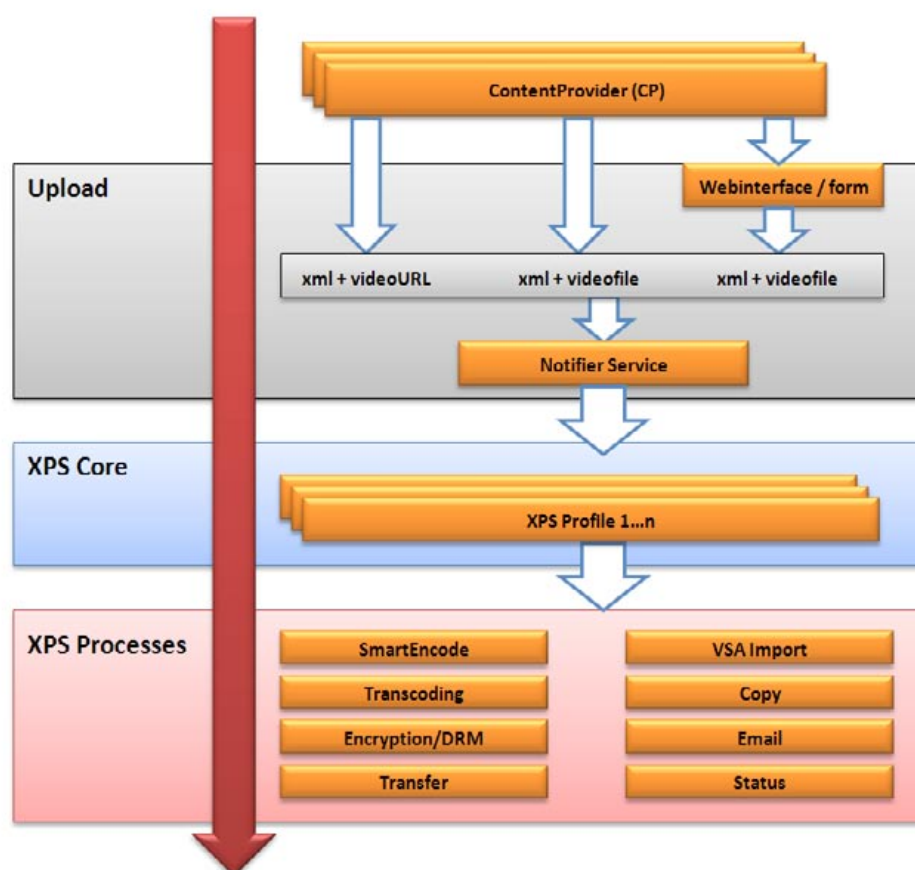


An outstanding collection of workflow applications to automatically manage all steps of content aggregation, processing and distribution in combination with Virage software.



XPS x.art Processing Server

XPS is a universally applicable, and easily customizable workflow server integrated with the Virage/Autonomy framework.

XAL x.art Auto Logger

XAL is generally a standalone application that can be seamlessly integrated into the XPS.

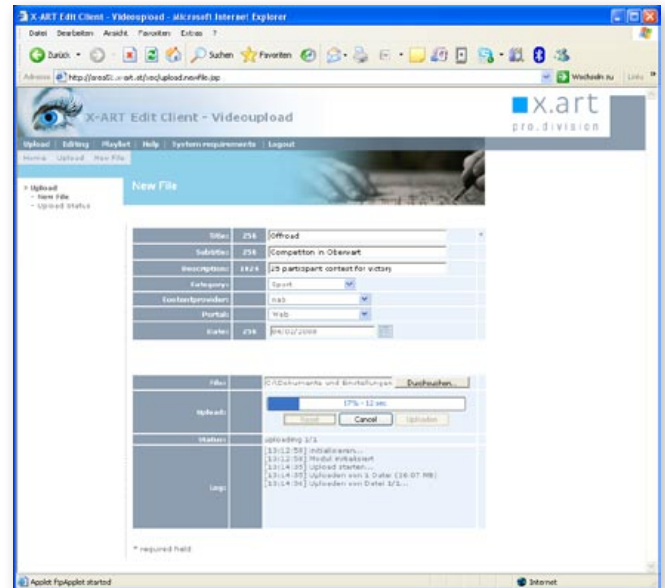
XEC x.art Edit Client

XEC is a Java based video editor for content stored in VSArchive.

Uploading Content

Content can be uploaded using one of three alternative technologies:

- Upload via a web interface with integrated Java Applet - Here, the content provider enters metadata manually via the web interface, followed by a format independent video file upload using the ftp-protocol.
- Upload via a web interface without Java applet - The content provider enters metadata manually without uploading a video. The video file is included only as a URL so that the XPS can process it correctly. It needs to be available as a streamable file on a platform such as WindowsMedia
- SOAP service - This technology provides an SDK to fully upload content automatically (metadata and essence) from a content provider's digital repository.



XPS x.art Processing Server

XPS is a universally applicable, and easily customizable workflow server integrated with the Virage/Autonomy framework.

It enables the user to control and monitor all steps necessary for the aggregation, processing and distribution of indexed videos.

3 Java based components combine to form XPS's core engine:

- A freely configurable and powerful workflow-engine
- A suite of different dockable modules needed for controlling individual processes
- Different upload technologies allow content providers to comfortably supply their assets

The core module controls and monitors all processes and additional modules based on freely definable profiles. Users can assign numerous processes to each profile, with the option to initiate each process based on the results of other processes. This way manual interaction is optimized in case of abnormalities such as a corrupted video file, causing a complete change of the workflow.

Connectable modules currently available:

Smartencoding (with X-ART's AutoLogger)

The X-ART AutoLogger is generally a standalone application that can be seamlessly integrated into the XPS. AutoLogger is responsible for the fully automated Smartencoding process of videos and clips with metadata. Details about the AutoLogger can be found in a separate white paper.

Converting

The Converter module enables the user to control 3rd-party transcoders. Currently the CarbonCoder from Rhozet is fully integrated via the SDK. Other manufacturer's applications, including Flipfactory and Anystream, could also be fully integrated via their SDK's

VideoInfo

Utilizing the VideoInfo module, video files can be technically analyzed and act as the starting trigger for other modules such as the converter-module depending on relevant parameters.

DRM

The DRM module encrypts a WindowsMedia-streaming file (WMV)

FTP

Via the FTP module, files can be automatically uploaded and distributed to single or multiple servers

VSA-Import

Usually this is the last module to be used in the workflow chain which completes the import of the content into VSArchive.

Copy processes

To meet the demand for controlling processes which cannot be fully integrated, this module utilizes a watch folder functionality to copy data into a predefined folder and then wait for an event trigger to continue the workflow chain.

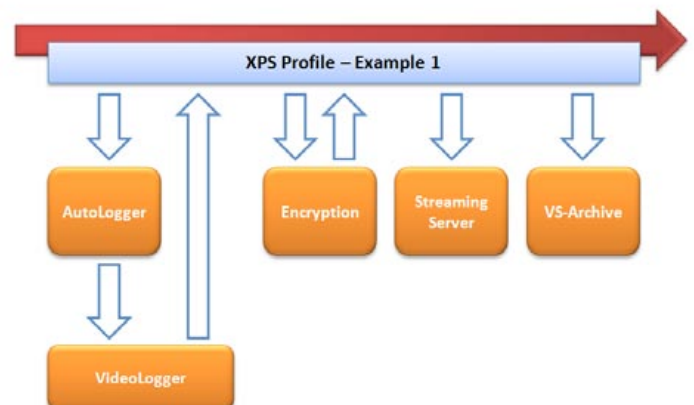
Status request

At any given time, this module provides a progress report available via the XPS interface. Each XPS module as well as each XPS feature reports the following information: "Queued", "Running", "Finished", "Error", "Interrupted", "Timeout", "Not Stoppable" and "Skipped". This report remains available for 7 days.

ID	Status	User	Title	Begin	End
20000412 ver 101333 741	Running	ver	Offroad	2000-04-02 10:15:41	
FunctionID	Status	Errorscode	Errorsdescription	Begin	End
convert	Running	0		2000-04-02 10:15:41	2000-04-02 10:15:41
ipgenconf	Queued	0			
importWAVtoA	Queued	0			
autoLogger	Queued	0			
sendEmail	Queued	0			
LoggerControl	Queued	0			
20000412 ver 074121 322	Finished	ver	Markus großhaska	2000-04-02 09:18:24	2000-04-02 09:33:37
20000412 ver 100003 347	Finished	ver	seal6	2000-04-02 06:06:13	2000-04-02 06:06:24
20000412 ver 076113 322	Finished	ver	seal6	2000-04-02 07:08:21	2000-04-02 06:00:04
20000412 ver 076113 474	Finished	ver	seal6	2000-04-02 07:01:20	2000-04-02 07:01:32
20000412 ver 074121 322	Finished	ver	seal2	2000-04-02 07:17:28	2000-04-02 07:41:09

SendMail

Via the SendMail feature an email can be sent to a pre-defined address list to alert the recipient in case of either an error or successful process.



XEC x.art Edit Client

XEC is a Java based video editor for content stored in VSArchive. It allows the playback of the video, editing of all clips and metadata tracks, as well as the creation and deletion of sub clips and metadata tracks. Because the XEC communicates with VSArchive via a SOAP-interface, it does not have to be installed on the VSArchive server. This enables the customer to operate different servers, such as a Webserver, for XEC in front of the firewall and a database server behind the firewall.

Search

The XEC welcome page is also the search page. Using the full text search feature, the complete index with all metadata such as speech, clip and video label, is scanned. Optional individual or combined database fields can be scanned using standard "and" as well as "*" filter rules.

The XEC also allows user definable metadata result columns. Playback in the video editor is activated by clicking on the keyframe.

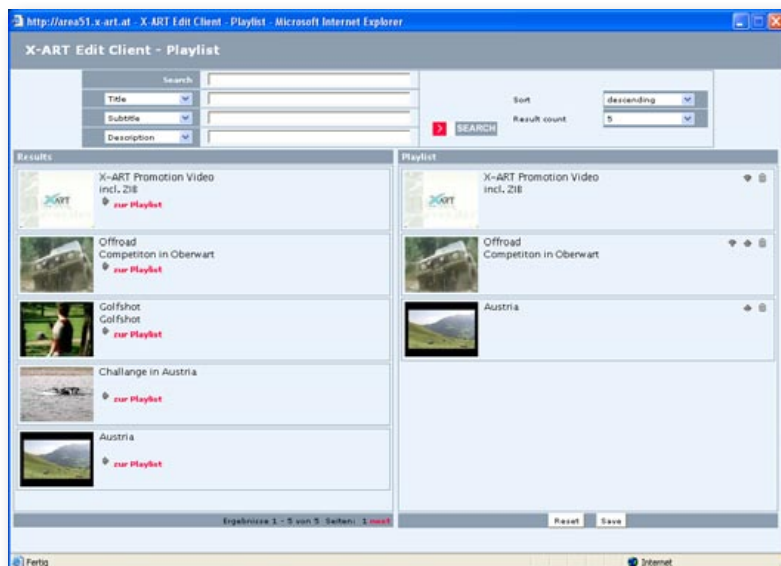
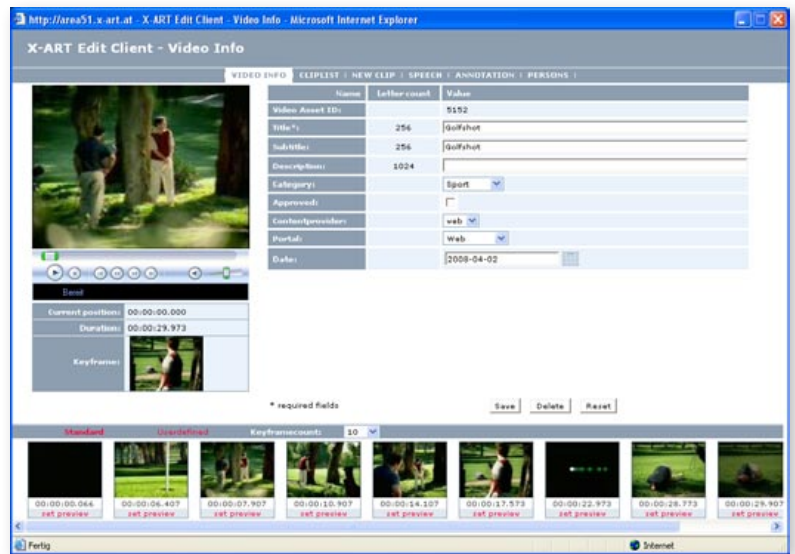
Video	Shorterfu	Title	Subtitle	Description
	AssetID: 5136	X-ART Promotion Video	ind. ZIB	
	AssetID: 5149	Offroad	Competition in Oberwart	25 participants, contest for victory
	AssetID: 5154	Seal promo		
	AssetID: 5152	Golfshot	Golfshot	
	AssetID: 5146	Challenge in Austria		mud offroad water
	AssetID: 5158	Austria		mozart national park holiday ski buildings vine

Editing

The editor itself consists of 3 window sections:

- The playback window enables the playback, rewind and fast-forwarding of the video
- The metadata window allows the viewing, editing and modification of all static data, and in addition displays all available data for the relevant time-code. The user can also create, modify and delete SubClips and metadata.
- The storyboard window allows the user to select from all keyframes that were automatically generated by the VideoLogger with uploaded jpegs.

A special feature allows the correction of stretched key frames created by the Videologger.



Playlist

This feature allows the user to create server-based playlists (WSX). A streaming server will then loop the playlist and treat it like a live programme. The advantage of a WSX (server stored playlists) versus ASX (client stored playlists) is that the buffering problem is eliminated by the WindowsMediaServer.

