

WEB-TV

Administrator User Manual



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Prerequisites

It is assumed that the reader of this document is familiar with the DotNetNuke framework, especially with the following concepts:

- Portal
- Module
- Roles

Introduction

Web-TV module allows you to:

- Add a video, detailing all the features
- Show the list of existing videos divided into categories
- Do research
- Create playlists
- Publish playlists on one or more channels

In few steps you can create both a video archive and a web-tv

The module relies on MFCS (Media File Conversion System), a proprietary program that provides a tool to encode videos, a tool to create schedules and a tool for publishing contents on the two main media servers: Windows and Flash. For more details see the concerning documentation.

Module Installation

To install Web-TV go to host – 'module definitions'- 'upload new module' and import the. zip file of the module.

Remember to import files with extension xaml because of they contain the skins of silver light player.

Settings

To access the settings simply click on the arrow to the left of the module's title, and choose the appropriate menu item:

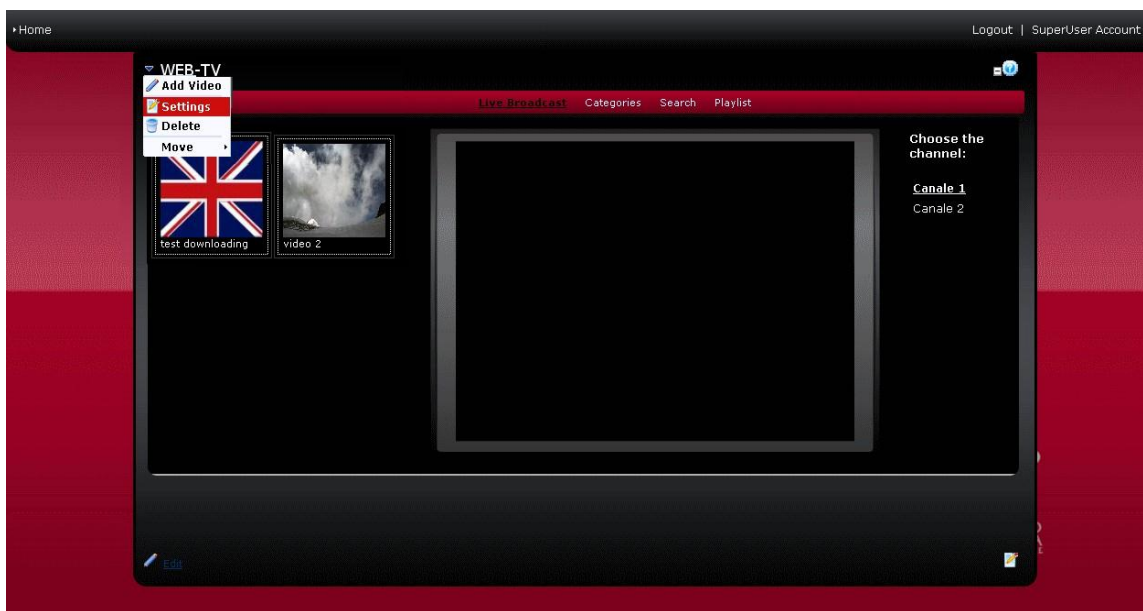


Figure 1 How to access settings

After the general settings of the module (which are the same for all the DotNetNuke modules) you can find those specific to the Web-TV.

Optional video parameter

Web-TV Settings

Help : In this section, you can set up settings that are specific for this module.

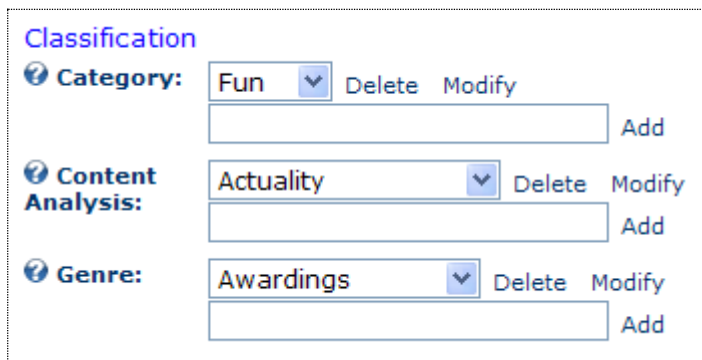
Visibility:

Artist:	<input checked="" type="checkbox"/>
Opera:	<input checked="" type="checkbox"/>
Maker:	<input checked="" type="checkbox"/>
Language:	<input checked="" type="checkbox"/>
Copyright:	<input checked="" type="checkbox"/>
Issuer:	<input checked="" type="checkbox"/>
Description:	<input checked="" type="checkbox"/>
Genre:	<input checked="" type="checkbox"/>
Category:	<input checked="" type="checkbox"/>
Chapters:	<input checked="" type="checkbox"/>
Sequences:	<input checked="" type="checkbox"/>
Keywords:	<input checked="" type="checkbox"/>

Figure 2 Video Paramters

Only selected parameters will be visible in 'publish video' page and in search video page.

Classification



The screenshot shows a web interface titled "Classification". It contains three main sections, each with a blue icon and a label:

- Category:** A dropdown menu showing "Fun", with "Delete" and "Modify" buttons to its right. Below it is a text input field and an "Add" button.
- Content Analysis:** A dropdown menu showing "Actuality", with "Delete" and "Modify" buttons to its right. Below it is a text input field and an "Add" button.
- Genre:** A dropdown menu showing "Awardings", with "Delete" and "Modify" buttons to its right. Below it is a text input field and an "Add" button.

Figure 3 Classification

Category

The choice of categories must be done with care, because when the videos' list will be displayed, the videos will be divided into categories.

You can choose a category from the list and press Delete to remove it or Modify to change it; you can also write a new category and press Add to add it.

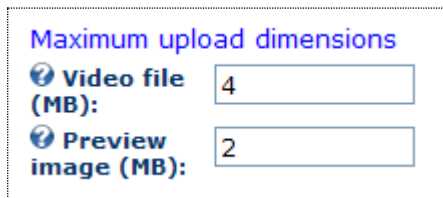
Content analysis and genres

Analysis and genres are tied together, since each analysis corresponds to one or more genres.

To check this you can choose an analysis from the drop-down list: the drop-down list of the genres will be filled with all the genres belonging to that analysis.

You can add, modify or delete the analysis; and add, modify or delete genres belonging to an analysis.

Maximum upload dimensions



The screenshot shows a web interface titled "Maximum upload dimensions". It contains two sections, each with a blue icon and a label:

- Video file (MB):** A text input field containing the number "4".
- Preview image (MB):** A text input field containing the number "2".

Figure 4 Maximum upload dimensions

Video file

You can enter the maximum dimension (MB) of video files uploaded by the users. If you enter 0 files of any dimension will be accepted.

Preview image

You can enter the maximum dimension (MB) of preview images uploaded by the users. If you enter 0 files of any dimension will be accepted.

Media Server

STREAMING FLASH:

Media Server

Media Server:

☐ Windows ☒ Flash

Delivery Type:

☒ Streaming ☐ Downloading

Flash Media Server parameters

Flash Playlist Url:

83.216.172.88/flv_repos

Url of Flash Streaming Videos :

83.216.172.88

DOWNLOADING FLASH:

Media Server

Media Server:

☐ Windows ☒ Flash

Delivery Type:

☐ Streaming ☒ Downloading

MFCS Parameters

Url of Downloading Videos:

83.216.172.88/mfcsdir/dd

DOWNLOADING WINDOWS:

Media Server

Media Server:

☒ Windows ☐ Flash

Delivery Type:

☐ Streaming ☒ Downloading

MFCS Parameters

Url of Downloading Videos:

83.216.172.88/mfcsdir/dd

STREAMING WINDOWS:

Media Server

Media Server:

☒ Windows ☐ Flash

Delivery Type:

☒ Streaming ☐ Downloading

Windows Media Server Parameters

Windows Playlist Url:

83.216.172.88

Windows Playlist Port:

8080

Url of Windows Streaming Videos:

83.216.172.88:8080

Figure 5 Media Server Type and Delivery type

The Web-TV module can interface with two types of media server: Windows and Flash.

If you choose Windows, for example, videos and playlists will be published on Windows media server, and will therefore be encoded for this purpose. With regard to the viewing, only the videos and the channels encoded or created for Windows media server will be listed.

Once you have chosen the server type, you need to choose the delivery type: streaming or downloading. According to the choice, you have to enter specific parameters, only the visible ones, as described in figure 5.

Following parameters must be provided by those who had installed and configured MFCS (values in figure are examples).

Windows Playlist Url

Publishing url of Windows playlists.

N.B.: you must enter the url without "http://"

Windows Playlist Port

Number of the port on which the Windows playlists will be published.

Url of Windows Streaming Videos

Publishing url of videos encoded for Windows streaming.

N.B.: you must enter the url without "http://"

Flash Playlist Url

Publishing url of Flash playlists.

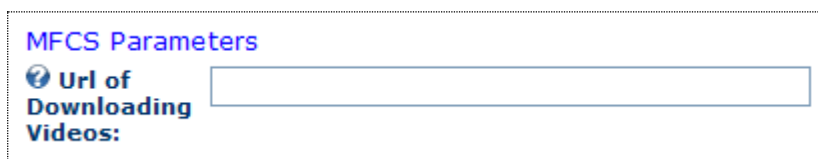
N.B.: you must enter the url without "http://"

Url of Flash Streaming Videos

Publishing url of videos encoded for Flash streaming.

N.B.: you must enter the url without "http://"

MFCS Parameters



MFCS Parameters

Url of Downloading Videos:

Figure 6 MFCS Parameters

In this section you must insert the url of videos encoded for download. The url must be provided by those who have installed and configured MFCS, and is shared by Windows media server and Flash media server.

N.B.: you must enter the url without “http://”

Front End Parameters

A screenshot of a web form titled "Front End Parameters" in blue text. Below the title, there are three rows, each starting with a blue circular icon containing a question mark. The first row is labeled "Input Directory:" followed by a text input field. The second row is labeled "Output Directory:" followed by a text input field. The third row is labeled "Source Directory:" followed by a text input field.

Figure 7 Front End Parameters

In this section you must insert the parameters of the Front End, which must be supplied by those who have installed and configured MFCS.

Note for those who configure the MFCS: everyone must have write permissions to the folders specified above (site server must write to mfcs folder).

Compressions

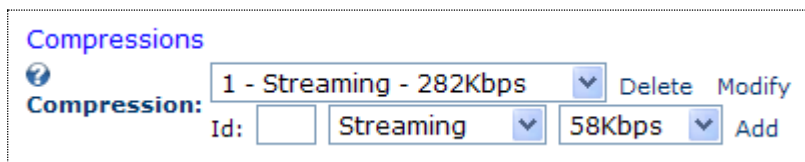
A screenshot of a web form titled "Compressions" in blue text. Below the title, there is a row starting with a blue circular icon containing a question mark, followed by the label "Compression:". To the right of this label is a dropdown menu showing "1 - Streaming - 282Kbps". To the right of the dropdown are two buttons: "Delete" and "Modify". Below this row, there is another row starting with "Id:" followed by a text input field, then a dropdown menu showing "Streaming", then a text input field showing "58Kbps", and finally an "Add" button.

Figure 8 Compressions

In this section you must set the compressions of the selected media server. The information must be supplied by those who have installed and configured MFCS.

Channels

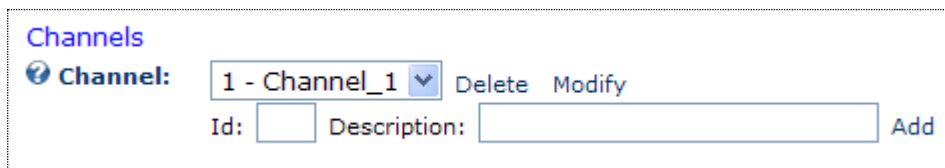
A screenshot of a web form titled "Channels" in blue text. Below the title, there is a row starting with a blue circular icon containing a question mark, followed by the label "Channel:". To the right of this label is a dropdown menu showing "1 - Channel_1". To the right of the dropdown are two buttons: "Delete" and "Modify". Below this row, there is another row starting with "Id:" followed by a text input field, then the label "Description:" followed by a text input field, and finally an "Add" button.

Figure 9 Channels

In this section you must set the channels of the selected media server. The information must be supplied by those who have installed and configured MFCS.

FTP Parameters

FTP parameters for Input directory

Url: ftp://xx.xx.xx.xx/FE_Produzione_ID/
Username:
Password:
Port:

FTP parameters for Output directory

Url: ftp://xx.xx.xx.xx/FE_Produzione_OD/
Username:
Password:
Port:

FTP Parameters for Source directory

Url (public ip): ftp://xx.xx.xx.xx/FE_Produzione_SD/
Url: ftp://xx.xx.xx.xx/FE_Produzione_SD/
Username:
Password:
Port:
JAVA_HOME: C:\Program Files\Java\jdk1.6.0_26

Create Ftp Application

File correctly created in
(server path):
C:\Gabrieli\DotNetNuke\MFCSWebDNN5
\Website\DesktopModules\WebTV\MFCSFtpClient.zip

Update Delete Cancel

Created By SuperUser Account On 2/29/2012 2:31:53 PM
Last Updated By SuperUser Account On 5/24/2012 11:22:01 AM

Figure 10 FTP Parameters. xx.xx.xx.xx refers to 'server ftp' ip address.

In this section you can set the ftp settings of the Input directory, Output directory and Source directory.

For each directory:

- If you don't set the ftp parameters then the normal http upload will be used, with the path specified in "Front End Parameters" section
- If you set the ftp parameters then the ftp upload will be used, and the path specified in "Front End Parameters" will be ignored

The Web-TV includes, in addition to the normal http upload, also the ftp upload, useful in case of large files.

In section 'FTP Parameters for Source directory' (see Figure 10) 'Url (public Ip)' parameter refers to execute upload directly from client (not from site); 'Url' parameter refers to executing ftp from web server (such upload is executed

automatically by mfcswb site). There can be difference between two values if ftp server and web server are inside the same domain: in this case **Url** parameter is internal (for example 10.3.0.88) while '**Url (ip pubblico)**' is an external ip.

java_home parameter refers to java path used to compiling automatically ftp java executable (jar) (such java executable is needed from large ftp file upload directly from client). java_home is a physical path in server web.

Create ftp application is used to automatically compiling client ftp java executable. If automatically compilation don't generate error, a label indicate server web path to client ftp java executable. Ftp client is inside a .zip file that contains a file .jar and a lib directory. To execute file .jar you need to download first .zip file from 'upload file' window (see figure 12 below), than extracting .jar and lib directory (in same directory), then execute .jar file. Ftp client application need username and password of web site host.

Video Management

Video Upload

To upload a video click on the 'edit' button (on the bottom right of figure 10). Then chose 'Upload video'

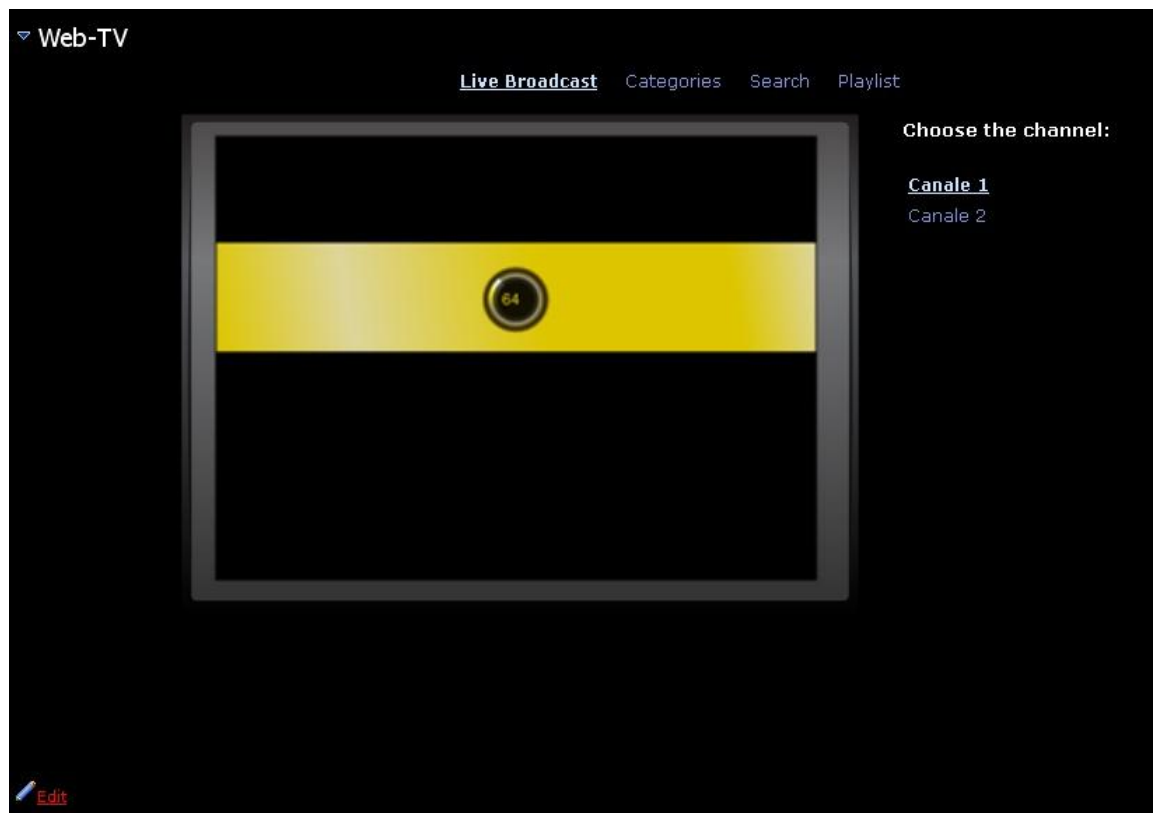


Figure 11 Upload a video



Figure 11bis Video Upload

The pop-up mask for uploading videos looks like this:



Figure 12 Uploading video 1/3

Select video file name and click upload.

Extension permitted are: wmv, avi, mpeg, mpg, mp4, flv.

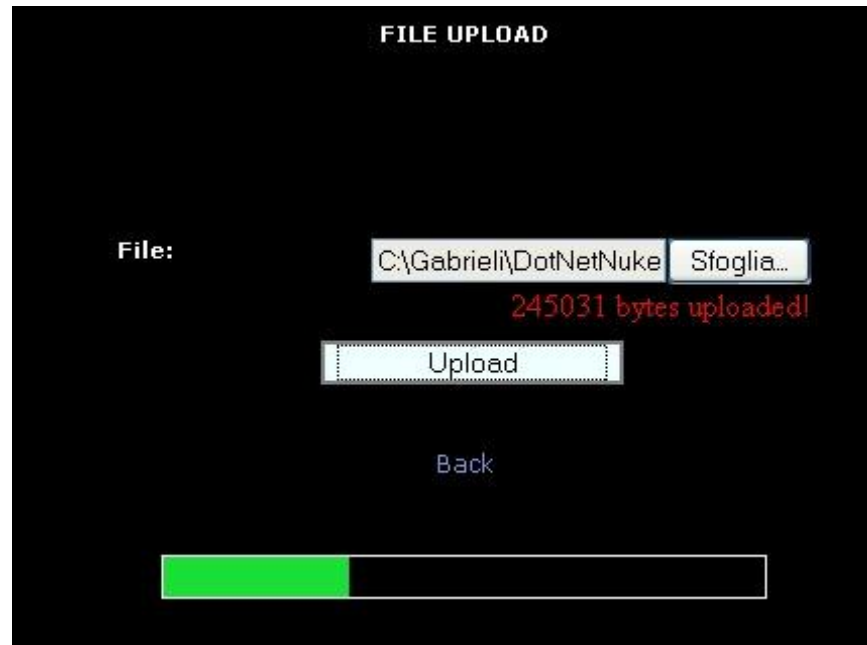


Figure 13 Uploading video 2/3

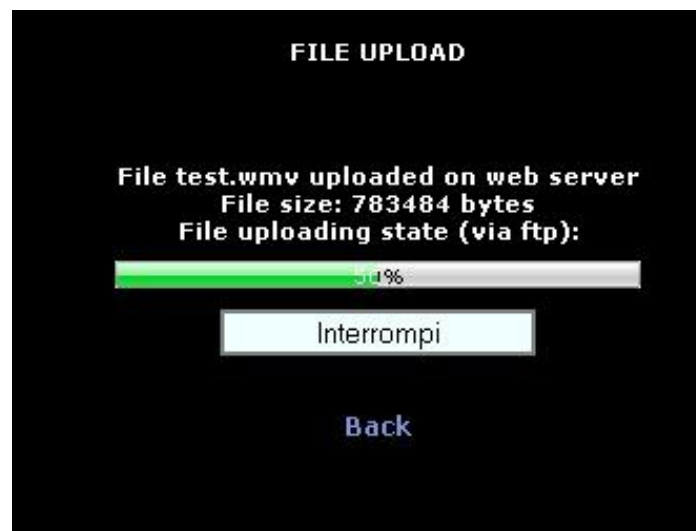


Figure 14 Uploading video 3/3

If ftp transfer is enabled, two steps are required to upload video (see figure 12 and 13), otherwise one (figure 12).

To watch uploaded file you have to open 'uploaded video list' page, as you see below:



Figure 15 Access to Uploaded Video List

Web-TV					
Video to publish					
Back					
ID	Insert date	File Name	Duration	Published	
152	30-08-2011 06:00:32	test.wmv	1.28	yes	Delete
159	08-09-2011 05:40:09	test.wmv	1.28	yes	Delete
160	08-09-2011 05:41:33	test.wmv	1.28	yes	Delete
144		DeWalt-1.wmv	0.61	yes	Delete
146		friends_theme.wmv	0.62	yes	Delete

Figure 16 Uploaded Video List

As you see in figure, inside this list are shown uploaded file (published or not), with progressive identifier, inserted date, file name, duration. Published column indicates if video has already been published (one or more time).

Video Publish

To publish video you must use 'edit' button (start module page, see figure 10), then push 'publish video':



Figure 17 Video Publishing

Target page is following:

Web-TV

Publish Video

Video information

File:

Title:

*

Artist:

Opera:

Maker:

Language:

Copyright:

Issuer:

Content information

Description:

ContentAnalysis:

Actuality

Genre:

Trasmissioni di servizio

Category:

Fun

Chapters:

Sequences:

Keywords:

File information

Duration (in minutes):

Dimension (in MB):

Encoder:

Expression Encoder

Visualization format:

1 - Streaming - 128Kbps - 320x240

Preview image:

Sfoglia...

Validity dates

Created date:

Calendar

Insertion date:

9/8/2011

Publish date:

Calendar

Expire date:

Calendar

Publish

Back

Figure 18 Video Publishing

Mandatory fields are: title, file name (see dropdownlist at the top of the page), visualization format (see 'web-tv settings to know visualization format list), validity dates. Duration and size are read-only because calculated from chosen file. About preview image: if you don't choose one, then the default one will be used. When all the fields are filled in, click on "Publish" button: the video will be added to the archive, and the encoding will start.

View the videos

To view the video list choose the menu item "Categories":

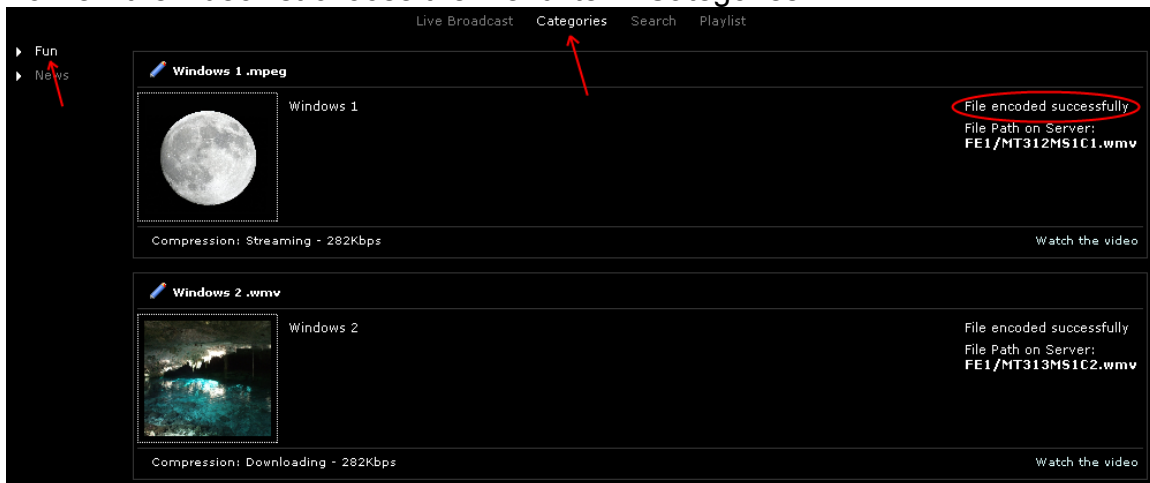


Figure 29 Video list

On the left you can see the categories list. If you choose a category, all the videos of that category will be displayed. For each video are listed the main features and the encoding phase.

To modify the video simply click on 'Modify'. To see video details use button "Watch the video" button (see arrows):

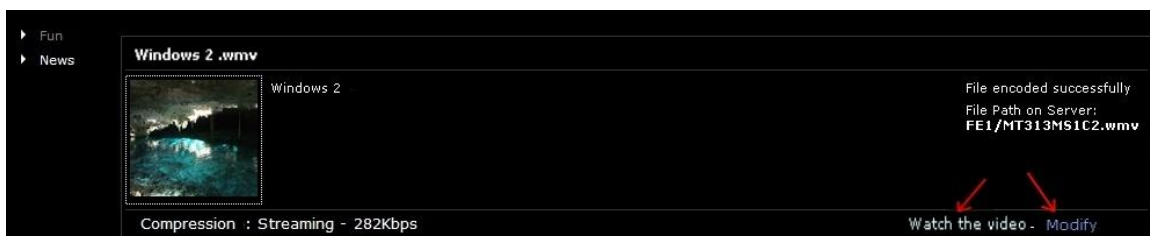
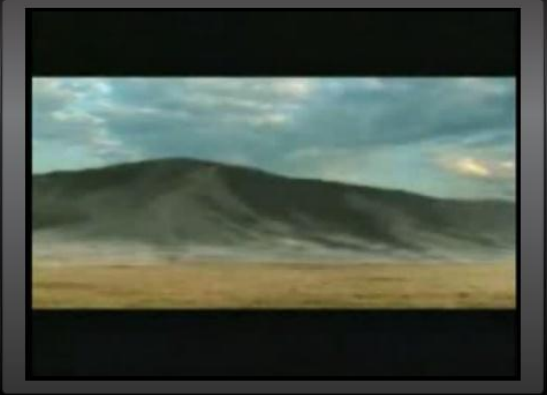


Figure 20 How to edit a video or view the details

The details page looks like this:

Windows 2 .wmv



Artist: Windows 2
Opera: Windows 2

ContentAnalysis: Actuality
Genre: Service programs
Category: Fun

Language: Windows 2
Duration (in minutes): 3.1111

Description:
Windows 2

Chapters:
Windows 2

Sequences:
Windows 2

Maker:	Windows 2	Format:	Streaming - 128Kbps - 320x240
Issuer:	Windows 2	Created date:	6/21/2012
Encoder:	Expression Encoder	Insertion date:	6/27/2011
Copyright:	Windows 2	Expire date:	6/27/2012
Supply modality:	Download		
Dimension (in MB):	3		

Figure 21 Details page

As you can see, there are the player and all the features of the movie.

Search a video

If you choose the menu item “Search” the search mask will be displayed:

Web-TV

Live Broadcast Categories **Search** Playlist

Title:

Artist:

Opera:

Maker:

Language:

Copyright:

Issuer:

Description:

Chapters:

Sequences:

Keywords:

ContentAnalysis: All

Genre: All

Category: All

Duration: From To min

Select view: Current

Search

Figure 22 Search mask

Using this mask you can search for videos by any features, or multiple features simultaneously.

Playlist management

Create a Playlist

If you choose the menu item “Playlist”, the playlist management page will be opened:

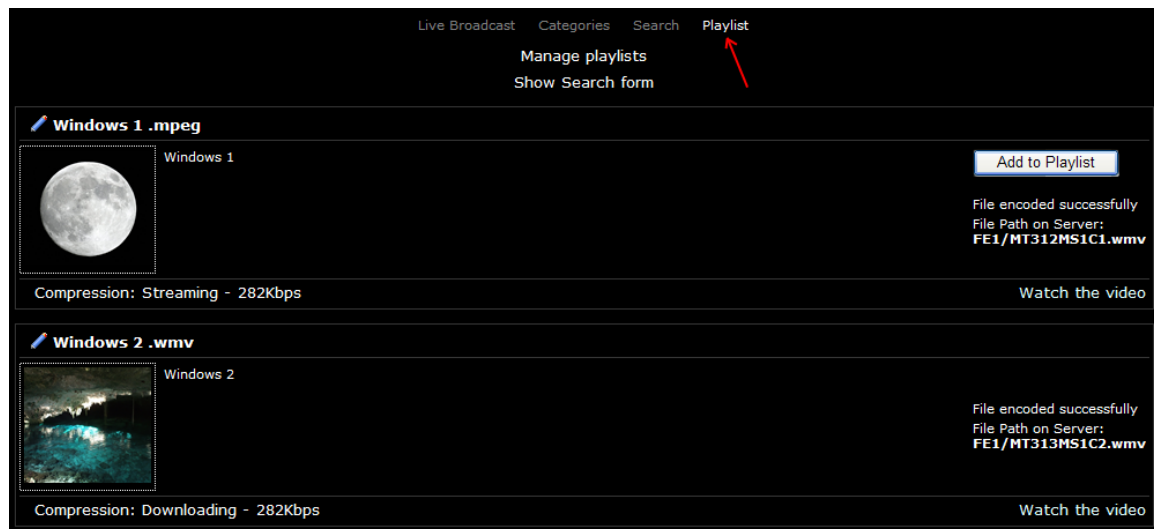


Figure 23 Playlist management page

The button “Show Search form” allows you to show/hide the search mask. Using the button “Manage playlists” you can show/hide the mask for playlist management.

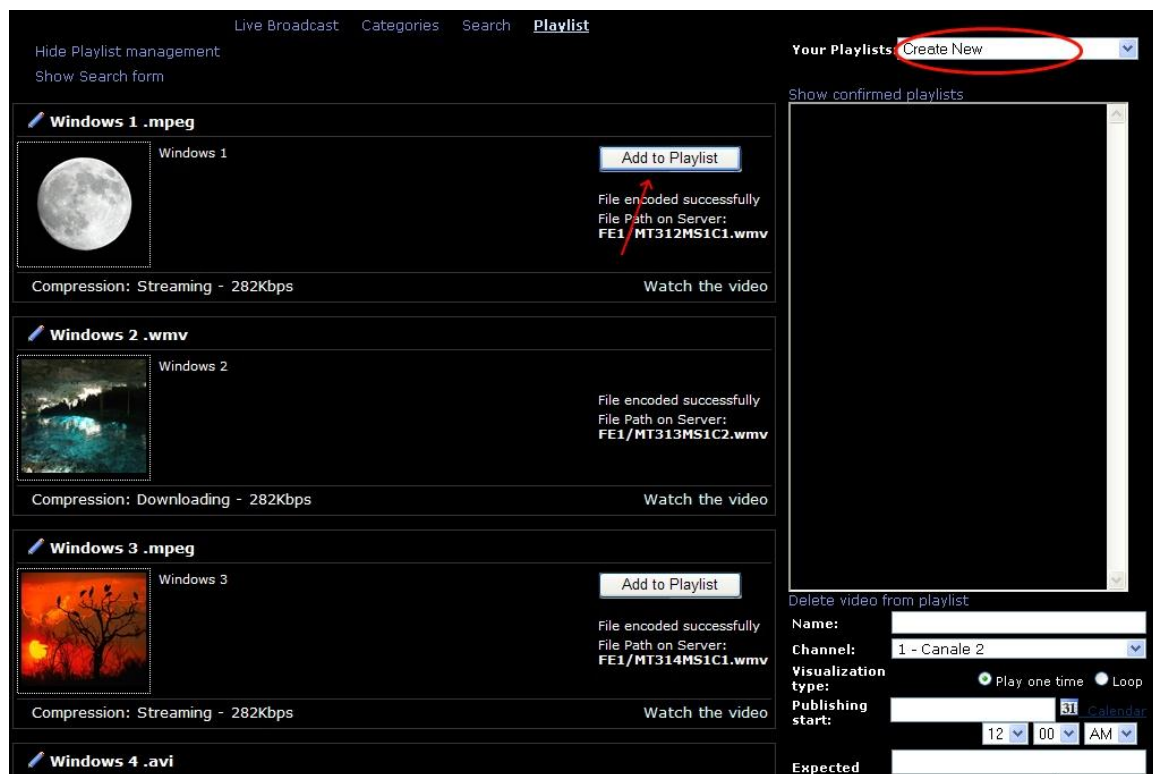


Figure 24 Playlist management

As you can see, the panel is ready for adding a new playlist.
 To add some videos to the playlist simply use the button “Add to Playlist”.
 N.B.: the button is available only if the video has been encoded for streaming,
 and if the encoding has been completed without errors.
 When a video is added it appears in the video list, and its duration is
 automatically calculated.
 To delete a video from the list select it and choose “Delete video from playlist”:

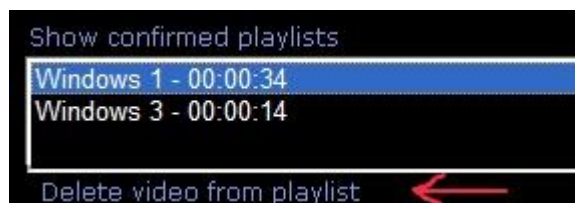


Figure 25 How to delete a video

After you have added the videos you need to complete all the playlist's features:

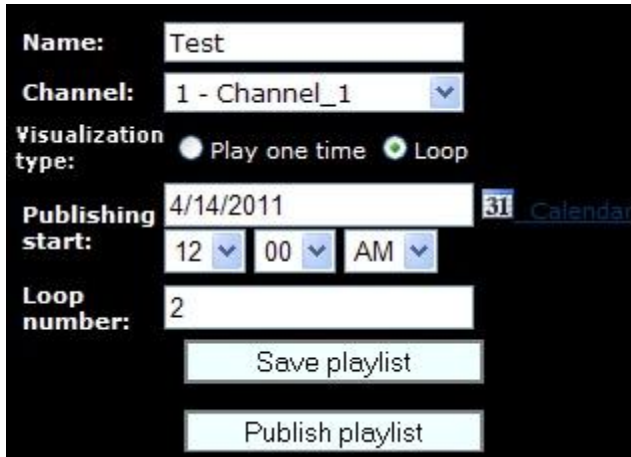
A screenshot of a web form for creating a playlist. The form has a dark background with white text and input fields. It includes fields for 'Name' (containing 'Test'), 'Channel' (a dropdown menu showing '1 - Channel_1'), 'Visualization type' (radio buttons for 'Play one time' and 'Loop', with 'Loop' selected), 'Publishing start' (a date field showing '4/14/2011' and a time field showing '12:00 AM'), and 'Loop number' (a text field containing '2'). There are two buttons at the bottom: 'Save playlist' and 'Publish playlist'. A small calendar icon is visible next to the date field.

Figure 26 Playlist's features

- Name: playlist's name
- Channel: publication channel
- Reproduction type
 - Play one time: the playlist will be played only one time
 - Loop: the playlist will be played more times, and the number of times must be specified
- Publishing start: date and time of publication
- Expected End: automatically calculated.

To save the playlist you can use the button “Save playlist”

Once saved, the playlist will be inserted with the others in the drop-down list at the top:

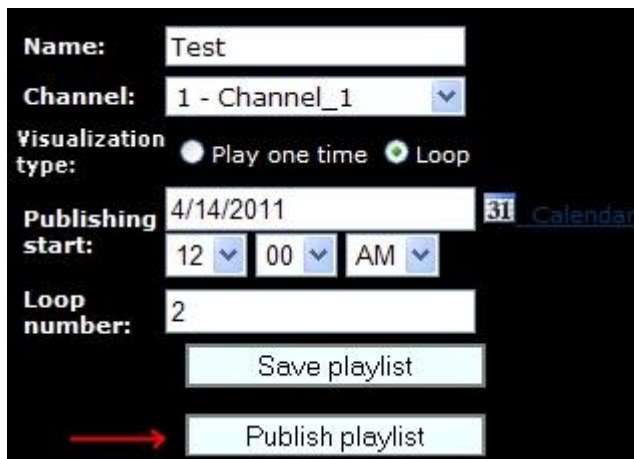
A screenshot of a drop-down menu. The selected item is 'Test (id=225)'. The menu has a dark background with white text and a small blue arrow icon on the right side.

Figure 27 Playlists' drop-down list

Once you have selected a playlist from the drop-down list you can delete it, or edit and save it again.

In this phase the playlist is kept in memory, but has not been published yet.

To publish a playlist you need first save it, and then click the button “Publish playlist”:



Name: Test

Channel: 1 - Channel_1

Visualization type: ☐ Play one time ☒ Loop

Publishing start: 4/14/2011 12:00 AM

Loop number: 2

Figure 28 How to publish a playlist

Once published, the playlist will be played on the selected channel at the date and time indicated.

N.B.: a published playlist can't be edited or deleted.

If you want to change the schedule you can create a new playlist with the same start date and time of the previous, so the new playlist will overwrite the previous one.

View the playlists

By choosing the menu item "Live broadcast" the live broadcast's page is shown. If you select a channel on the remote control you can see the playlist on the air on that channel:

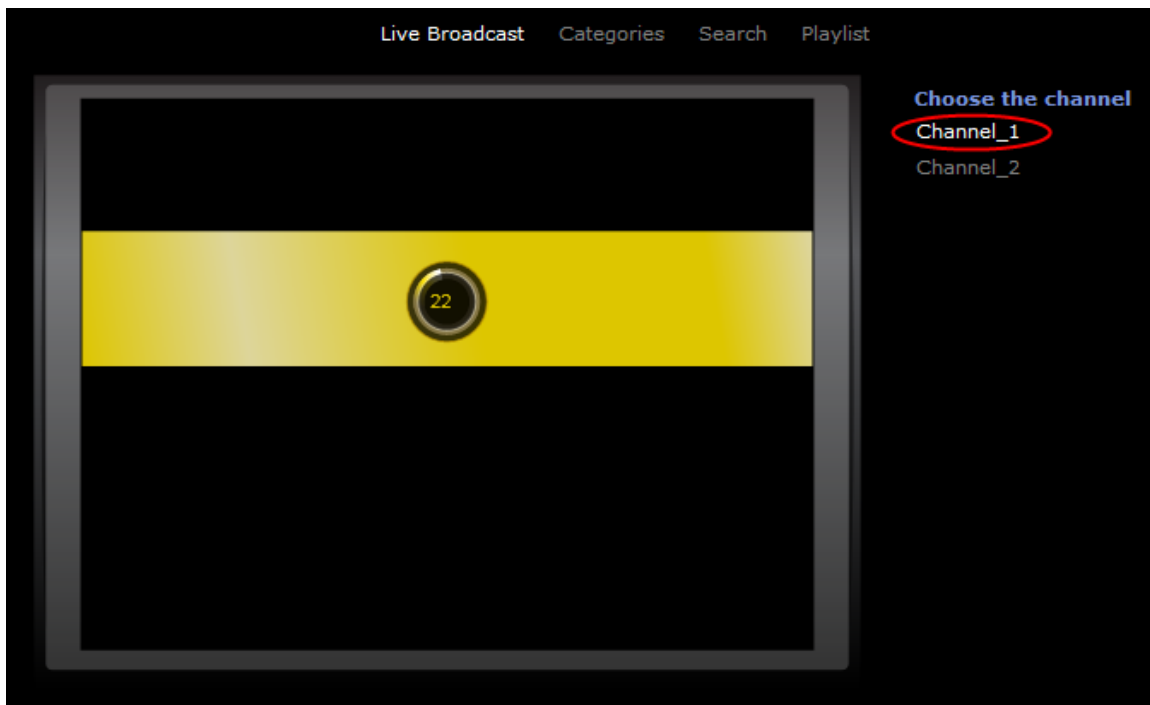


Figure 29 Live broadcast

Permissions

As for the other modules, in the Basic Settings you can manage the permissions for viewing and editing the Web-TV module:

Permissions:		
	View Module	Edit Module
Administrators	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
All Users	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Registered Users	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Subscribers	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Unauthenticated Users	<input type="checkbox"/>	<input type="checkbox"/>

Figure 30 Permissions

Users who have View permissions can watch live broadcasts, scroll the video list, do searches and view details of each video.

Users who have Edit permissions can add, edit or delete videos.

Only administrators can create, edit and publish playlists.

License Management

Insert license key

Without a license key you can not access to any of the Web-TV features. To enter license key you must access the module settings, expand the section Web-TV, write the license key provided by the seller and press 'validate'. There are two types of license keys: 'trial' (with an expiry date) and 'unlimited'.