

USER MANUAL

C-Cast Administrator

Version 3.5 - February 2017



C-Cast





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What's New ?

In the C-Cast User Manual, the icon **NEW !** has been added on the left margin to highlight information on new and updated features.

The changes linked to new features in version 3.5 are listed below.

Improved management of production sites

- See section "Managing Production Sites" on page 58

1. Introduction

1.1. Product Description

C-Cast Central Description

C-Cast Central is a service, running in the cloud, which orchestrates the C-Cast solution. It makes it possible to manage the production definition and planning, as well as the distribution workflow. As part of C-Cast Central, the C-Cast Administrator module allows the definition of most configuration elements in the C-Cast solution.

C-Cast Central Modules

The C-Cast Central application consists of several modules:

- **C-Cast Administrator** is the user interface for the advanced configuration of most workflow parameters.
- **C-Cast Publisher** is the HTML5 web interface to manage the distribution of media to partners or viewers.

This manual deals with the C-Cast Administrator module. The other modules are dealt with in separate user manuals.

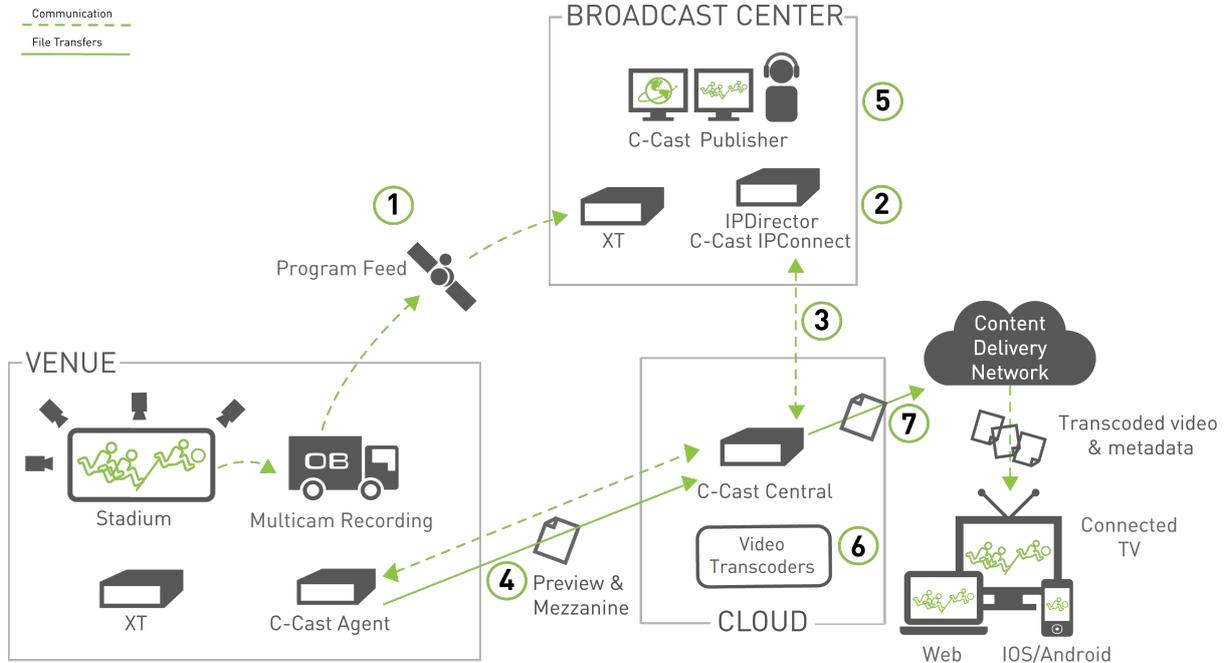
C-Cast Central Workflow

The C-Cast Administrator module allows you set up the configuration elements used in a C-Cast workflow, as well as the C-Cast productions. As such, the C-Cast Administrator is only indirectly involved in the C-Cast workflow.

Besides this, as the C-Cast Central allows the orchestration of the whole C-Cast workflow, it is directly involved in the whole C-Cast workflow, as shown in the distribution workflow presented below.

1. From the OB production van at the venue, a reference program feed is sent back to an EVS server in the broadcast center.
2. In the broadcast center, the operator accesses, with IPDirector, the reference feed on which (s)he defines IN and OUT points to identify the media to be made available in C-Cast Publisher.
3. The media selection information (IN and OUT points, and metadata) is transmitted to the C-Cast Central via C-Cast IPConnect.
4. The C-Cast Central requests the C-Cast Agent to extract the media corresponding to the selection. The C-Cast Agent, and the underlying Xsquare service, extracts and transfers the preview files and mezzanine files to the C-Cast Central. Based on the configuration, all camera angles associated to the selected media are also generated as preview and mezzanine files.

5. In the broadcast center, the operator browses the preview files of all requested camera angles (video asset) in C-Cast Publisher. The operator validates the publication items and video assets (s)he wants to publish to viewers.
6. The C-Cast Central requests the integrated cloud video transcoders to generate the requested output files.
7. The C-Cast Central exposes the output files to the viewers' applications.



1.2. Opening C-Cast Administrator

Introduction

You can access C-Cast Administrator using a web browser with a normal internet connection.

Depending on the project you are working on, the URL to connect to the C-Cast Administrator module will differ. Beforehand, you will receive the URL and the login credentials you need to use to connect to C-Cast Administrator.

Only users having the Administrator role can access the C-Cast Administrator module.



NOTE

C-Cast Central has been validated and optimized for Google Chrome. It is therefore recommended to use this web browser.

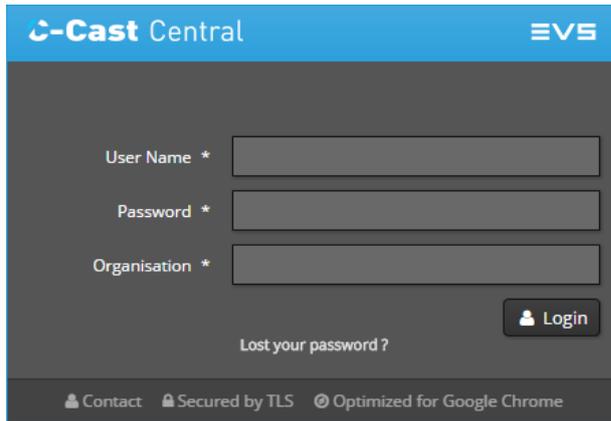
Logging in to C-Cast Administrator

To log into C-Cast Administrator, proceed as follows:

1. Type the C-Cast URL received in a **Google Chrome** web browser.

For example: `https://my.c-cast.tv/`

The Login dialog box opens:



The screenshot shows the C-Cast Central login interface. At the top, there is a blue header with the C-Cast logo and the word 'Central' on the left, and the EVS logo on the right. Below the header, there are three input fields: 'User Name *', 'Password *', and 'Organisation *'. To the right of the 'Password *' field is a 'Login' button with a user icon. Below the input fields, there is a link that says 'Lost your password?'. At the bottom of the dialog, there is a footer with three items: 'Contact' with a person icon, 'Secured by TLS' with a lock icon, and 'Optimized for Google Chrome' with a Chrome icon.

2. Type the credentials you have received for username, password and organization.
3. Click **Login**.

You are logged on to C-Cast Administrator.

1.3. Overview of the User Interface

Introduction

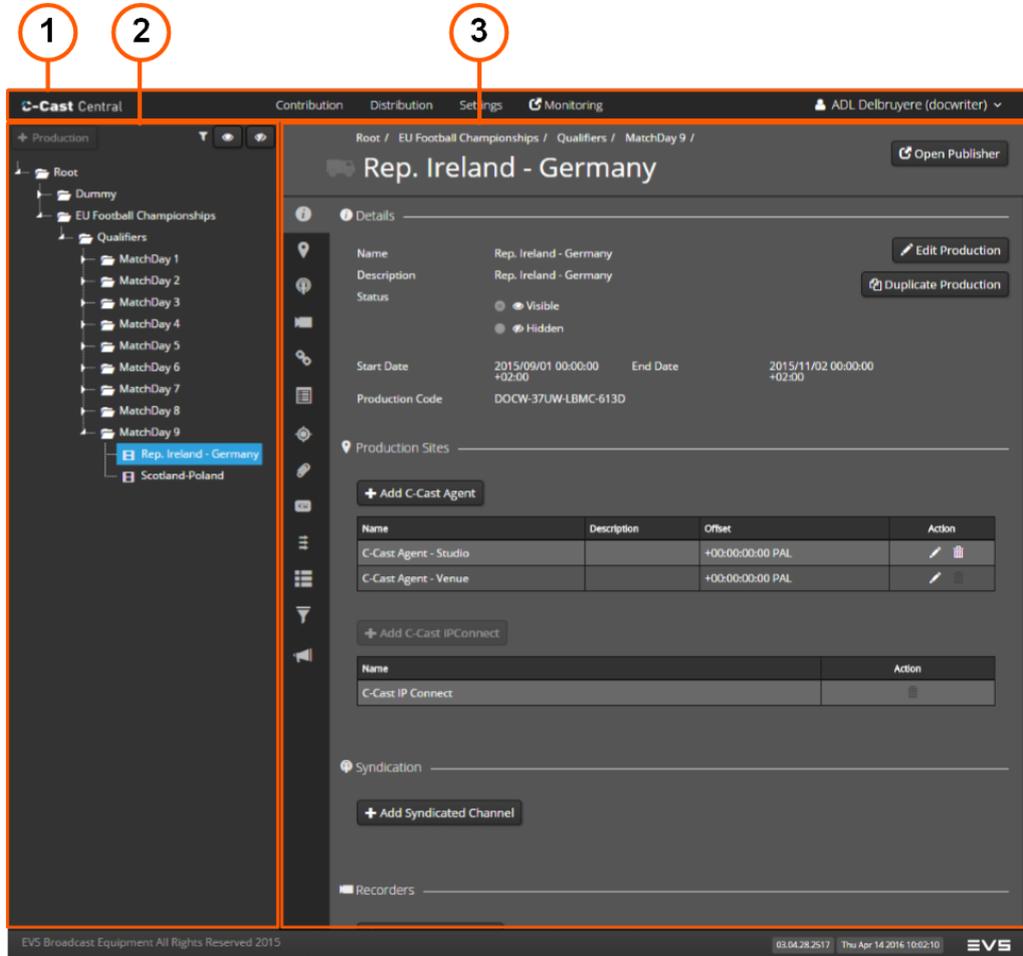
The C-Cast Administrator module consists in four main parts accessible via a toolbar at the top of the window. The item selected in the toolbar is underlined in blue:



Part	Description
Contribution	From the Contribution window, you can create, set up and edit all productions managed in the C-Cast workflow. See section "Setting up and Managing Productions" on page 49.
Distribution	From the Distribution window, you define the publication channels and the publication channels groups, that means the components that allow the media to be distributed to viewers or/and partners. See section "Setting up Media Distribution" on page 78.
Settings	From the Settings window, you define all C-Cast configuration elements. These components will be used everywhere else in the C-Cast workflow: <ul style="list-style-type: none"> • In the production configuration • In the distribution configuration • In the C-Cast Agent configuration • In the C-Cast IPConnect configuration • By all the services responsible for communication between the C-Cast modules, and for transfer and transport of the media throughout the C-Cast workflow. See section "Setting up C-Cast Central" on page 7.
Monitoring	To open the Monitoring window from the main C-Cast Administrator window, select the Monitoring menu in the toolbar. From the Monitoring window, you can monitor all transfers from C-Cast Agents to contribution destinations. See section "Monitoring Transfers" on page 97.

Illustration

You will perform different tasks in the three main windows of the module, but the underlying structure is similar in the three main windows:

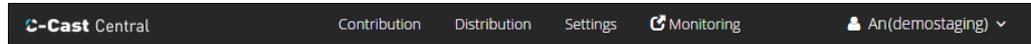


The three main windows in C-Cast Administrator are made up of the following zones:

Part	Area Name
1.	Toolbar
2.	Selection Pane
3.	Configuration Pane

Area Description

Toolbar (1)



The toolbar includes two areas:

- The central part provides links to the three main windows, as explained in the Introductory section.
- The right part displays the user name and the organization name. The arrow sign gives access to commands to edit your user credentials and password, as well as to log out.

Selection Pane (2)

The Selection pane gives access to a tree view or item list in which you can select an item:

- a production in the Contribution window
- the **Channels** or **Channel Groups** headings in the Distribution window
- a parameter type in the Settings window

According to what you have selected in the Selection pane, the parameters of the selected item are displayed on the Configuration pane on the right of the window.

Configuration Pane (3)

The Configuration pane gives access to detailed parameters of the item selected in the Selection pane:

- the parameters of the selected production in the Contribution window
- the list of channels and/or channel groups in the Distribution window
- the list of items belonging to the selected parameter type in the Settings window

2. Setting up C-Cast Central

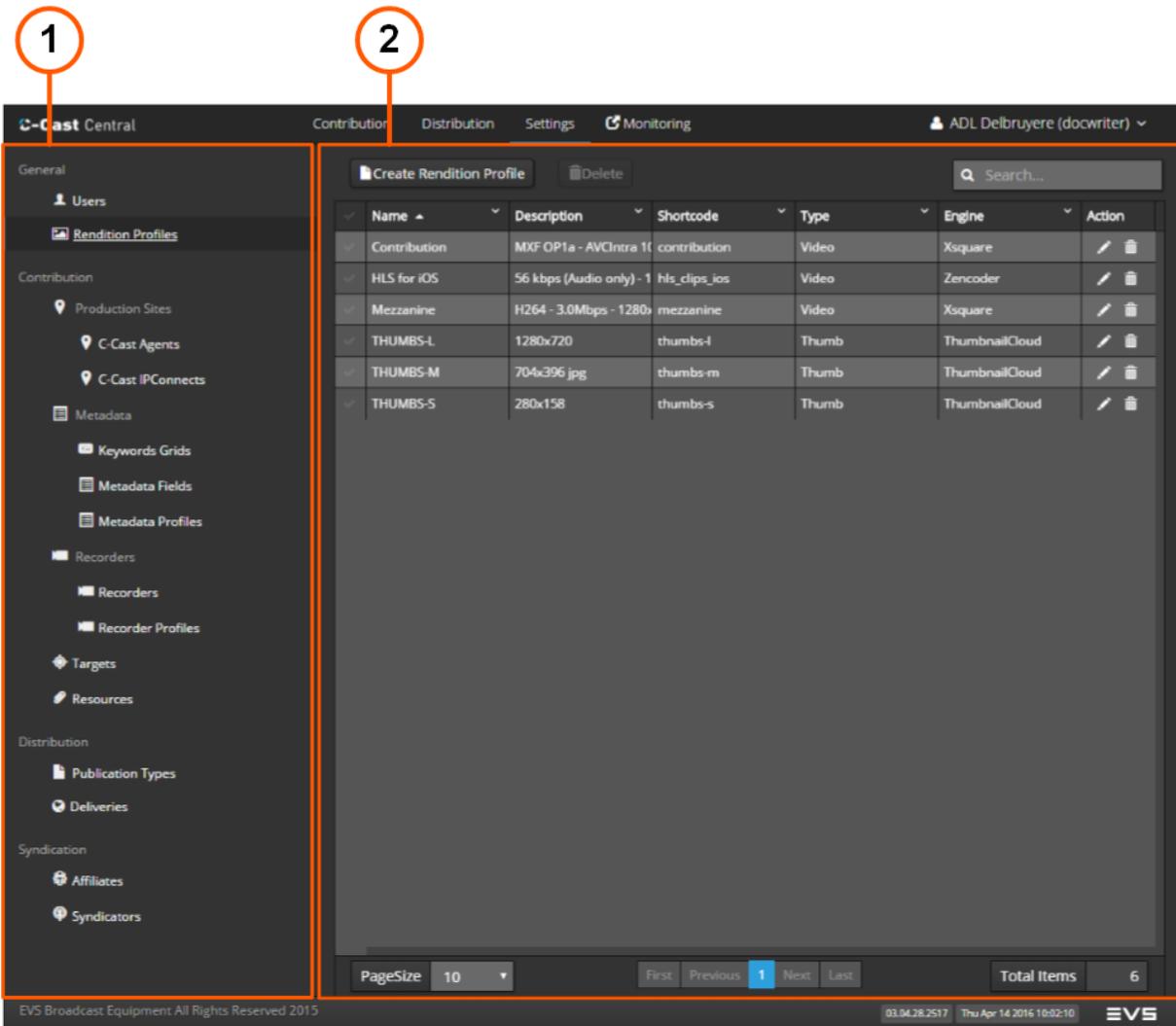
2.1. Overview

2.1.1. Settings Window

Introduction

The C-Cast Central comes with default settings already defined. You can either edit the default settings or create your own settings based on the default ones.

The Settings window contains the areas highlighted on the screenshot below:



The Settings window is made up of the following areas, which are described in details below:

Part	Area Name
1.	Settings tree
2.	Settings list

Area Description

Settings Tree (1)

The Settings tree gives access to all types of settings required in a C-Cast workflow.

When you click a type of settings in the Settings tree, the user interface behaves as follows:

- The selected setting type is displayed on a dark gray background in the tree and with a vertical blue line in front of the type.
- All items of this type are listed in the Settings list on the right.

See section "Setting Types" on page 11 for a short description of each setting type.

Settings List (2)

The list of items corresponding to the setting type selected on the left are displayed as a list. For any setting type, the items are created, updated or deleted in the same way.

See section "Managing Settings" on page 9 for procedures on how to manage setting items.

2.1.2. Managing Settings

General Principles

All operations on settings are performed in the same way, whatever the setting type.

For more information on the fields specific to the setting type, refer to the section on the specific setting.



WARNING

Should you change settings that are used in a live production, bear in mind that these modifications will be taken into account only for future publication items or publication items that are updated in the C-Cast Publisher further to the modifications.

How to Add an Item of a Setting Type

1. Select a settings type in the settings tree on the left.
A table with a list of settings of the selected type is displayed on the right.
2. On the right, click the **Create** button located at the top of the list.
The name of the Create button depends on the setting type.
The Create window is displayed.
3. Fill in at least the required fields, marked with an asterisk, and click **Create**.
A new record is added in the setting list with the values you have entered.

How to Edit an Item in a Setting List

1. Select the requested settings type in the settings tree on the left.
A table with a list of settings of the selected type is displayed on the right.
2. On the right, click the **Edit** icon  in the row of the item you want to edit.
The Edit window is displayed.
3. Edit the field values and click **Update**.
The setting values have been modified in the updated item.

How to Delete a Single Item in a Settings List

Delete actions are not available with all settings.

1. Select the requested settings type in the settings tree on the left.

A table with a list of settings of the selected type is displayed on the right.

2. On the right, click the **Delete** icon  in the row of the item you want to delete.

A dialog box asking for confirmation is displayed.

3. Click the **Delete** button in the dialog box.

The item is deleted from the list.

How to Delete Several Items of a Settings List

Delete actions are not available with all settings.

1. Select the requested settings type in the settings tree on the left.

A table with a list of settings of the selected type is displayed on the right.

2. On the right, select the items you want to delete from the list.

The check box in front of the row is selected, and the row is highlighted in blue.

3. Click the **Delete** button on the top of the settings list.

A dialog box asking for confirmation is displayed.

4. Click the **Delete** button in the dialog box.

The items are deleted from the list.

How to Search for Items in a Settings List

This search feature is not available for all setting types. Some fields are not taken into account in the search.

1. Select the requested settings type in the settings tree on the left.

A table with a list of settings of the selected type is displayed on the right.

2. In the **Search** field located upper right of the settings list, type the text string you want to look for.

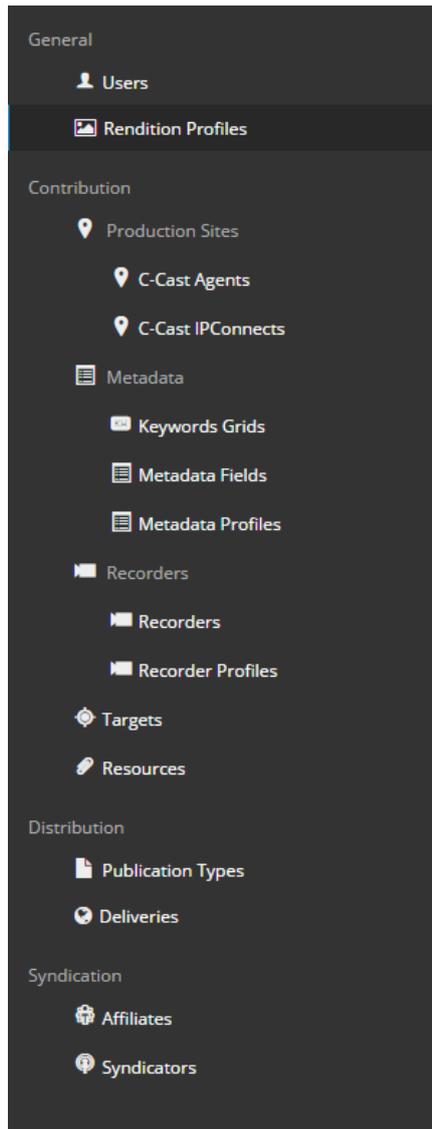
The list is filtered to display only the items whose fields include the text string searched.

2.1.3. Setting Types

Tree View

All setting types are presented in a structured list on the left of the Settings window.

This section describes each setting type, and their related fields.



General Settings

The General settings are not specific to a part of the C-Cast workflow.

Users

The users of any C-Cast module must be defined in the **Users** settings.

The users can be granted one role that provides associated rights:

Role	Description
Administrator	Has full access and privileges on the C-Cast Central, and access to both C-Cast Administrator, and C-Cast Publisher.
Publisher Operator	Has access to C-Cast Publisher and its content, but not to C-Cast Administrator.

Rendition Profiles

The rendition profiles consist of a set of parameters and XML files used to create the output files required in the C-Cast workflow: video, audio, thumbnails or thumbwall.

See section "Rendition Profile Settings" on page 14.

Contribution Settings

The Contribution settings are required for the part of the C-Cast workflow up to the media transfer to the cloud.

Production Sites

The production sites consist of the definition of the various physical locations where a C-Cast Agent or C-Cast IPConnect are used in the C-Cast workflow.

See the following sections:

- "C-Cast Agent Settings" on page 17
- "C-Cast IPConnect Settings" on page 18

Metadata

The metadata include the definition of all elements that provide information on the content of publication items in the C-Cast workflow. These are keywords, metadata profiles and metadata fields.

See the following sections:

- "Keyword Grid Settings" on page 19
- "Metadata Fields Settings" on page 21
- "Metadata Profile Settings" on page 24



Recorders

The recorders section includes the recorder list, and the recorder profiles. A recorder profile is a group of recorders to be used on a venue in the C-Cast workflow.

See the following sections:

- "Recorder Settings" on page 26
- "Recorder Profile Settings" on page 27

Targets

A target consists of a group of physical destinations a user can decide to send content to. The targets belong to the following type:

- so-called "target" files used by partners for further processes in the contribution workflow.

See section "Target Settings" on page 31.

Resources

The resources are the documents or files that can be used to complete a C-Cast workflow, or that can be useful in the C-Cast workflow.

See section "Resource Settings" on page 32.

Distribution Settings

The Distribution settings are required for the part of the C-Cast workflow related to the distribution to external applications.

Publication Types

The publication types make it possible to categorize the publication items by defining the type of content present in the publication item. The publication types are used in the production timeline in C-Cast Publisher.

See section "Publication Type Settings" on page 34.

Deliveries

A delivery is the URL path through which the end-user application will access the media content published on the C-Cast Central storage.

See section "Delivery Settings" on page 36

Syndication Settings

The Syndication settings are required for the part of the C-Cast workflow related to the transfer of media from one C-Cast Central (syndicator) to other C-Cast Central instances (affiliates).

Affiliates

An affiliate is a C-Cast Central that receives media from another C-Cast Central. The C-Cast Central that sends the media content to the affiliate is called the syndicator.

The affiliate receives media content from the syndicator via one or more channel groups the syndicator has linked to the affiliate.

See section "Affiliate Settings" on page 41.

Syndicators

A syndicator is a C-Cast Central that shares media with another C-Cast Central. The C-Cast Central that receives the media content is called the affiliate.

The syndicator sends media content to the affiliate via one or more channel groups the syndicator links to the affiliate.

See section "Syndicator Settings" on page 44.

2.2. General Settings

2.2.1. Rendition Profile Settings

Purpose



NOTE

See section "Managing Settings" on page 9 for information on how to create or update a rendition profile.

The rendition profiles consist of a set of parameters and an XML file used to create the output files required in the C-Cast workflow: video, audio or thumbnails.

Based on the profile definition, a transcoding engine will perform the rendition. Several engines are supported. Depending on the requested output, you will use a different engine.

The profiles include, among others, the codec, the wrapper, the resolution, the bitrate, the location, the DRM, etc.

When you create a rendition profile, you need to fill in descriptive fields, and attach the complete XML structure of the profile in the Rendition Profile window:

The following screenshot shows an example of a rendition profile using the Xsquare engine to generate a mezzanine file:



Edit Rendition Profile
✕

Name *

Description

Shortcode *

Type *

Engine *

Max Extraction

Profile *

```

1 <EVSEncoder
2   xmlns="http://www.evs.tv/XMLSchema/Encoders/"
3   xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" version="1.0"
4   xsi:schemaLocation="http://www.evs.tv/XMLSchema/Encoders/ ../EVS_Encoders.xsd" xsi:type="EVSH264Encoder">
5   <DisplayName>H.264@3.0Mbps MP4</DisplayName>
6   <D11Name>EVSH264Encoder.d11</D11Name>
7   <Extension>mp4</Extension>
8   <ChannelsOut>0</ChannelsOut>
9   <ResolutionMode>1</ResolutionMode>
10  <Compatibility toFile="true" toXT="false" />
11  <GUID>94204aaa-ea2b-401f-8391-dd94e3648451</GUID>
12  <EVSEncoderCfg>
13    <AspectRatio>16:9</AspectRatio>
14    <FType>MP4</FType>
15    <MoovFirst>1</MoovFirst>
16    <VPreset>H264_HIGH</VPreset>
17    <VProfile>H264PROFILE_HIGH</VProfile>
18    <VLevel>41</VLevel>
19  </EVSEncoderCfg>
20 </EVSEncoder>
                
```

Field Description

The following fields can be defined in the Create Rendition Profile window or updated in the Edit Rendition Profile window.

Name

This is the name of the rendition profile. In the profile name, try to specify the output type the profile allows to create.

Description

This is the description of the rendition profile. In the profile description, try to specify the output characteristics the profile allows to create, for example bitrate and resolution.

Shortcode

This is the code used in the C-Cast database to refer to the rendition profile.

The shortcode is no longer editable once the Rendition Profile has been created.

A shortcode can only contain alphanumerical characters (a - z;0 - 9, as well as hyphen - and underscore _). Uppercases are converted to lowercase.

A shortcode cannot be longer than 20 characters, and cannot contain special characters such as o \, <, >, %, \$, *, #, ', (espace), (,), ", [,], /, {, }, @.

The application will prevent you from using unsupported characters.

Type

This is the type of output file to be generated. The following values are possible:

Type	Description
Video	video file
Thumb	thumbnail used outside the C-Cast Publisher
Audio	audio file
Thumbwall	thumbnails used in C-Cast Publisher in the Content tab

Engine

This is the engine that will perform the rendition. The following engines are supported:

Type	Description
Xsquare	EVS engine to be used to do the extraction from the EVS servers or form an IPDirector nearline.
Zencoder	3rd party transcoder in the cloud that creates multiple types of video/audio files based on the mezzanine file generated by Xsquare. Refer to the Zencoder website (https://zencoder.com/en/) for more information about Zencoder transcoding.
ThumbnailCloud	Main engine to create thumbnails thumbwall for the C-Cast Publisher and the application. In the XML structure you can define the size and type of thumb.

Max Extraction

This is the maximum number of renditions the engine can process simultaneously.

Is Live

This field is not used in the current version of C-Cast.

Profile

This is the link to the XML file including the rendition definition and parameters.

If you do not have the XML file ready, you can directly type the profile in the Editor window displayed below the Profile field.



2.3. Contribution Settings

2.3.1. C-Cast Agent Settings

Purpose



NOTE

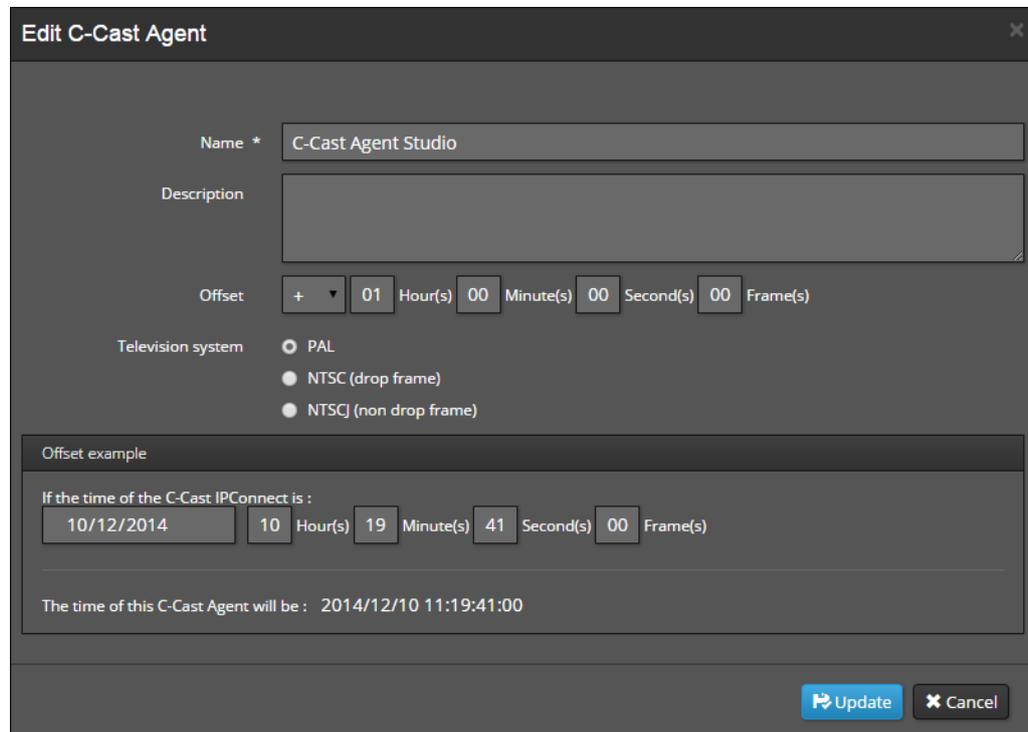
See section "Managing Settings" on page 9 for information on how to create or update a C-Cast agent.

On a C-Cast setup, you will deploy a **C-Cast Agent** on each physical location where content will be extracted and sent to C-Cast Central.

- One C-Cast Agent will be deployed on each venue.
- One C-Cast Agent will also be deployed in the broadcast center if, for example, clips are created from the PGM feed in the broadcast center, or if content is extracted from external feeds (feeds other than the ones on the venue).

For each deployed C-Cast Agent, you need to create a record in the C-Cast Agent settings.

The following screenshot shows the settings of a C-Cast Agent:



Field Description

The following fields can be defined in the Create C-Cast Agent window or updated in the Edit C-Cast Agent window.

Name

This is the name of the C-Cast Agent. It is recommended that the name refers to the physical location of the C-Cast Agent.

Description

This is the description of the C-Cast Agent.

Offset

When there is a timecode difference between EVS equipment in different production sites (mainly on the venue and in the broadcast center), the offset makes it possible for C-Cast to take this TC difference into account.

This is relevant in a C-Cast workflow with EVS servers located on the venue, and an EVS server receiving feeds (PGM) in the broadcast center and used in association with IPDirector and IPConnect on a C-Cast workflow.

Television System

This is the video standard that you will use during the production.

2.3.2. C-Cast IPConnect Settings

Purpose



NOTE

See section "Managing Settings" on page 9 for information on how to create or update a C-Cast IPConnect.

On a C-Cast setup, you will deploy a **C-Cast IPConnect** application on each physical location where IPDirector is used to select content to be made available in C-Cast Publisher. This is typically in the broadcast center.

The IPConnect acts as a bridge for the data communication between IPDirector and C-Cast Central: Based on the clips created in IPDirector, C-Cast IPConnect will request C-Cast Central to extract content and make it available to the C-Cast Publisher.

For each deployed C-Cast IPConnect, you need to create a record in the C-Cast IPConnect settings. A single IPConnect can be deployed on a C-Cast workflow.

The following screenshot shows the settings of a C-Cast IPConnect:



Field Description

The following fields can be defined in the Create C-Cast IPConnect window or updated in the Edit C-Cast IPConnect window.

Name

This is the name of the C-Cast IPConnect. It is recommended that the name refers to the physical location of the C-Cast IPConnect.

Description

This is the description of the C-Cast IPConnect.

2.3.3. Keyword Grid Settings

Purpose



NOTE

See section "Managing Settings" on page 9 for information on how to create or update a keyword grid.

Keywords and keyword types defined in keyword grids play an important role in a C-Cast workflow, mainly:

- The keywords associated to publication items make it possible to provide enhanced information to viewers and partners, for example displaying icons, or generating sentences based on keywords.
- The keywords can be used as criteria to include publication items into publication channels, and therefore make them available to viewers and partners.

If IPDirector is part of the C-Cast workflow, the IPDirector keyword grids should be imported and used as basis for the C-Cast keyword grids.

The keyword grids defined in the C-Cast Central settings must have the XML format.

The following screenshot shows the settings of a keyword grid:



The screenshot shows a dialog box titled "Edit Keywords Grid". It has three input fields: "Description *" with the value "Players", "Type *" with the value "PLAYER" and a help icon, and "File *" with a "Browse" button and the value "player.xml". At the bottom right, there are "Update" and "Cancel" buttons.

Field Description

The following fields can be defined in the Create Keywords Grid window or updated in the Edit Keywords Grid window.

Description

This should describe the keywords included in the keyword grids.

Type

The **Type** field categorizes the keywords of the keyword grid by assigning a type to them. All keywords of the grid will be assigned this keyword type.

File

The **File** field specifies the name of the XML keyword file. You can use the **Browse** button to link a keyword file when you create a new keyword grid in the settings.



NOTE

If you want to see the content of a keyword grid, you need to click on the keyword file name in the settings list. This will download a copy of the keyword file locally.

2.3.4. Metadata Fields Settings

Purpose



NOTE

See section "Managing Settings" on page 9 for information on how to create or update metadata fields.

The metadata fields provide additional information on the publication items that will be published to viewers and partners. The **Title** and **Description** metadata fields are provided by default. You can add additional metadata fields about the action, for example the event name, the city and name of the venue, the teams, etc. All fields can be custom made based on the customer needs.

In a workflow with IPDirector, you will most probably want some or all metadata information to be transferred with the clips from IPDirector to C-Cast. To this end, you need to define metadata fields with exactly the same label as in IPDirector.

The following screenshot shows the settings of a metadata field when the Autofill check box is selected:

Edit Metadata Field

Shortcode *

Name *

Autofill

Manage translation

Keywords
Drop file here or

Sentences
Drop file here or

Field Description

The following fields can be defined in the Create Metadata Field window or updated in the Edit Metadata Field window.

Shortcode

This is the code used in the C-Cast database to refer to the metadata field.

A shortcode can only contain alphanumeric characters (a - z;0 - 9, as well as hyphen - and underscore _). Uppercases are converted to lowercase.

A shortcode cannot be longer than 20 characters, and cannot contain special characters such as o \, <, >, %, \$, *, #, ', (space), (,), ", [,], /, {, }, @.

The application will prevent you from using unsupported characters.

Name

This is the name of the metadata field. It will be exposed in the final application via the C-



Cast API.

Autofill

The Autofill check box makes it possible to activate by default the automatic completion of the metadata field in C-Cast Publisher.

The automatic completion mechanism aims at filling a metadata field in a publication item with a sentence or phrase generated automatically. The sentence is generated when specific keywords and/or keyword types are linked to the publication item.

When you select the **Autofill** check box, the Manage Translation area is displayed. In this area, you can link the files that contain the information required by the auto-completion mechanism.

Keywords

In the Keywords area, you can select or drop the .csv file that contains the keywords and keyword translations if you want the keywords used in the generated sentences to be translated.

Sentences

In the Sentences area, you can select or drop the .csv file that contains the sentence patterns used to generate the automatic sentences when specific keywords are used.

The following table shows examples of sentence patterns, required keywords, and results of sentences generated based on the sentence pattern:

Sentence Pattern	Keywords linked to Publication Item	Example of generated sentence
\$Player\$ scored a \$ACTION\$ where Action = goal and Player = *	Messi (player), goal (action)	Messi scored a goal.
\$Player\$ received a \$ACTION\$ where Action = red card and Player = *	Messi (player), red card (action)	Messi received a red card.
A player received a \$ACTION\$ where Action = red card	red card (action)	A player received a red card.



NOTE

When you have specified translations in the Keywords file, the keywords used as variables in the sentence patterns will appear translated in the generated sentences.

Download Template File

The **Download Template File** button allows you to download a .csv file with all keywords included in the keyword grids defined the in C-Cast Central settings. If no keyword grid is defined, the button is not available.

Remove Translations

The **Remove Translations** button allows you to remove the links to the **Keywords** and **Sentences** files in the Manage Translations area.

2.3.5. Metadata Profile Settings

Purpose



NOTE

See section "Managing Settings" on page 9 for information on how to create or update a metadata profile.

Metadata fields can be grouped into a metadata profile. These metadata profiles are then assigned to a production.

In the Settings, you need to create the following metadata profiles:

- one metadata profile per publication type, that will be linked to the publication type in the Publication Type Settings.
- one metadata profile that will be linked to the production in the Contribution window.

In C-Cast Publisher, the metadata fields from two metadata profiles are indeed included in each publication item:

- fields from the metadata profile associated to the publication type;
- fields from a metadata profile associated to the production.

The following screenshot shows the settings of the default metadata profile called Production.

Edit Metadata Profile

Name *

Description

Metadata Fields

- Title
- Description



Field Description

The following fields can be defined in the Create Metadata Profile window or updated in the Edit Metadata Profile window.

Name

This is the name of the metadata profile. Choose a name that reflects the type of metadata fields the profile contains.

Description

This field provides a description of the metadata profile. It is optional.

Metadata Fields

The top field, including the text **Enter your metadata**, is a search field to display, search and select the metadata field you want to add to the metadata profile.

Once a field has been added to the metadata profile, it is displayed below this field, on a black background.

On the above screenshot, two metadata fields have been added to the metadata profile: **Title** and **Description**.

Managing Metadata Fields in a Metadata Profile

You can perform the following actions to add, reorder or remove fields in the metadata profile:

In order to ...	Proceed as follows:
Add a metadata field to a profile	<ol style="list-style-type: none"> 1. Do one of the following to search for the field: <ul style="list-style-type: none"> ◦ If you do not know the metadata field name, simply click on Enter your metadata and all metadata fields will be listed. ◦ If you know the metadata field name or part of it, type it on Enter your metadata to display only the metadata fields matching the string entered. 2. To select a field, use the Up and Down Arrow keys. 3. To validate the selection, press Enter.
Remove a metadata field from a profile	Click on the small cross in front of the metadata field.
Change the position of a metadata field in the list	Drag and drop a field to another position in the list.

2.3.6. Recorder Settings

Purpose



NOTE

See section "Managing Settings" on page 9 for information on how to create or update recorders.

The Recorders settings allow you to define recorders that will be selectable when you will define the recorder profile in the Settings. In a Recorder Profile, you will be able to include only recorders which have previously been defined in the Recorder pane.

The following screenshot shows the settings of a recorder profile for a football event:

The screenshot shows a dialog box titled "Edit Recorder". It has a dark grey background. At the top left, the title "Edit Recorder" is displayed in white, with a close button (an 'x' in a square) to its right. Below the title bar, there are two input fields. The first is labeled "Shortcode *" and contains the text "cam04". The second is labeled "Description *" and contains the text "Offside Right". At the bottom right of the dialog, there are two buttons: a blue "Update" button with a refresh icon, and a grey "Cancel" button with an 'x' icon.

Field Description

Shortcode

This is the code used in the C-Cast database to refer to the recorder.

A shortcode can only contain alphanumerical characters (a - z;0 - 9, as well as hyphen - and underscore _). Uppercases are converted to lowercase.

A shortcode cannot be longer than 20 characters, and cannot contain special characters such as o \, <, >, %, \$, *, #, '(espace), (,), ", [,], /, {, }, @.

The application will prevent you from using unsupported characters.

Description

This field provides a description of the recorder.



2.3.7. Recorder Profile Settings

Purpose



NOTE

See section "Managing Settings" on page 9 for information on how to create or update a recorder profile.

The recorder profiles serve the following purposes:

- Defining the recorders used in a production. When you configure a production, you indeed need to link the production to one recorder profile that includes all recorders you will use on any of the production sites.
- Defining a given order (sort indice) of priority between recorders for the extraction process.

The following screenshot shows the settings of a recorder profile for a football event:

Edit Recorder Profile ✕

Shortcode *

Description

Image

BROWSE

Manage profile's recorders

Add new recorder

Sort Indice	Shortcode	Description	All Frame	Action
0	cam00	PGM	<input type="checkbox"/>	✎ 🗑️ ☰
1	cam01	Main Camera	<input type="checkbox"/>	✎ 🗑️ ☰
2	cam02	Close Camera	<input type="checkbox"/>	✎ 🗑️ ☰
3	cam03	Offside Left	<input type="checkbox"/>	✎ 🗑️ ☰
4	cam04	Offside Right	<input type="checkbox"/>	✎ 🗑️ ☰
5	cam05	High Behind Goal	<input type="checkbox"/>	✎ 🗑️ ☰
6	cam06	Steadycam	<input type="checkbox"/>	✎ 🗑️ ☰
7	cam07	Behind Goal Left	<input type="checkbox"/>	✎ 🗑️ ☰
8	cam08	Behind Goal Right	<input type="checkbox"/>	✎ 🗑️ ☰
9	cam09	Team Bench	<input type="checkbox"/>	✎ 🗑️ ☰
10	cam10	Aerial	<input type="checkbox"/>	✎ 🗑️ ☰

The changes will not be automatically applied to the API existing files.

↩ Update
✕ Cancel

Field Description

Shortcode

This is the code used in the C-Cast database to refer to the recorder profile.

A shortcode can only contain alphanumerical characters (a - z;0 - 9, as well as hyphen - and underscore _). Uppercases are converted to lowercase.

A shortcode cannot be longer than 20 characters, and cannot contain special characters such as o \, <, >, %, \$, *, #, '(espace), (,), ", [,], /, {, }, @.

The application will prevent you from using unsupported characters.

Description

This field provides a description of the recorder profile.

Image

This field allows administrators to link an image of the camera plan to the recorder profile.

Click the **Browse** button to point to the requested file. Once the file is selected, its name is displayed in the **Image** field.

The image can be downloaded from the Recorder Profile list.



Recorder List

The table in the bottom part of the window shows the recorders of the recorder profile. It includes the following columns described below:

Field Name	Description
Short Indice	Number assigned to the recorder in the profile. It is taken into account in the C-Cast workflow to define the priority in which the media ingested from that recorder will be processed. Most of the time, the PGM will be located on top of the list
Shortcode	Name of the recorder used in the API.
Description	Description of the camera corresponding to the recorder, for example Main Camera, Close Camera, SteadyCamera, Wide Angle, etc. These definitions are available in C-Cast Agent to help people map the recorders in the OB van.
All Frame	Check box to be selected when all frames of a recorder on an SLSM camera have to be extracted.
Action	Provides the following buttons to perform actions on a row corresponding to a recorder: <ul style="list-style-type: none"> •  The Edit button allows users to edit the row. •  The Save button is displayed when the row is in Edit mode, and allows users to save the changes in the row. •  The Delete button allows users to delete the row.

Managing Recorders in a Recorder Profile

From a recorder profile window, you can perform the following actions to add, update, reorder or remove recorders in the recorder profile.



TIP

If not all recorders are used during a production, this doesn't affect the C-Cast system: these angles will just not be extracted.

How to Add a Recorder to a Profile

1. Click the **Add new recorder** button.
A new row is added in the table for a new recorder.
2. Select a recorder from the list of recorders previously defined in the Settings.
3. If relevant, select the **All Frame** check box.
4. Click  to save the recorder definition.

How to Edit a Recorder in a Profile

1. Click  in the row corresponding to the record you want to edit.
The fields in the row become editable.
2. Edit the requested fields.
3. Click  to save the changes in the recorder definition.

How to Change the Recorder Position in a Profile

- Drag and drop a row to another position in the list.

The Sort Indices is updated as soon as you drop the row to the new position.

How to Remove a Recorder from a Profile

- Click  in the row corresponding to the record you want to remove.
The row is directly removed, and the sort indices of the other rows are updated.



2.3.8. Target Settings

Purpose



NOTE

See section "Managing Settings" on page 9 for information on how to create or update a target.

A target is the association of a **physical resource** including the media content (called a rendition) and of a **physical location**, in a given C-Cast setup, the physical resource should be sent to .

When the content has been extracted, it can be sent to the cloud in C-Cast Central to be used in the distribution workflow

In the C-Cast workflow, the targets are specified in C-Cast Agent, as the C-Cast Agent services take care for the rendition and transfer of files.

The following screenshot shows a Mezzanine target where the material is generated and transferred to C-Cast Central:

Field Description

The following fields can be defined in the Create Target window or updated in the Edit Target window.

Name

This is the name of the target. It should ideally include information about the rendition and transfer profiles.

Description

This field describes the target, what it does, what it is used for, ...

Type

The target belongs to the following type:

- **Mezzanine:** Such target is used for the mezzanine file, which is the source file to generate the outputs in the distribution workflow.

Transfer Profile

This specifies the transfer profile that will be used to send the files to the destination.

Rendition Profile

This specifies the rendition profile that will be used to prepare and generate the targets.

2.3.9. Resource Settings

Purpose



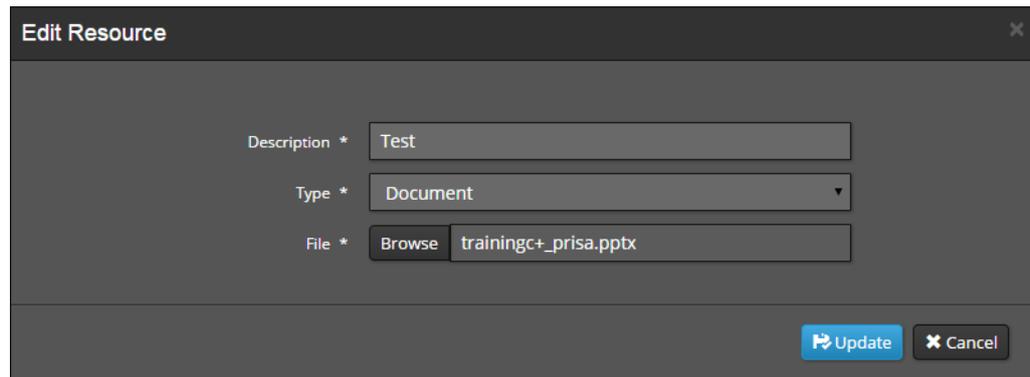
NOTE

See section "Managing Settings" on page 9 for information on how to create or update resources.

Resources are documents or files that can be used to complete a C-Cast workflow, or that can be useful in the C-Cast workflow.

When resources are associated to a production, they are made available to the IPConnect operator in the IPConnect production setup, so that he/she can download them during the production.

The following screenshot shows the definition of a resource of type Document:



Field Description

The following fields can be defined in the Create Resource window or updated in the Edit Resource window.

Description

This should describe the resource content.

Type

The resource belongs to one of the following types:

- **Document:** Assign this type to resources that are reference documents, such as Word, PDF, PowerPoint, ... documents that should be shared or read by people in a C-Cast production.
- **IPDirector Layout:** Assign this type to a resource that is an exported IPDirector layout. The IPConnect operator will therefore have it on hand and can apply it to the IPDirector application (s)he uses.
- **Other:** Assign this type to any other resource.

File

The **File** field specifies the name of the resource file. You can use the **Browse** button to link a resource file.



NOTE

If you want to see the content of a resource file, you need to click on the file name in the settings list. This will download a copy of the resource file locally.

2.4. Distribution Settings

2.4.1. Publication Type Settings

Purpose



NOTE

See section "Managing Settings" on page 9 for information on how to create or update a publication type.

The publication types make it possible to categorize the publication items by defining the type of content present in the publication item. The publication types are used in the production timeline in C-Cast Publisher.

Some publication types are used to refer to the content coming from the EVS server. They will always be available.

Others publication types are defined based on the customer needs, such as weather, ads, statistics, or maybe just thumbs. It directly relates to the type of content you will publish in the event. This can change between different API outputs.

The screenshot shows a dialog box titled "Edit Publication Type". It has a dark grey background. At the top left, the title "Edit Publication Type" is displayed in white, with a close button (X) on the right. Below the title bar, there are two main fields. The first is labeled "Name *" and contains a text input field with the value "evs:multicam". The second is labeled "Metadata Profile" and contains a dropdown menu with "Multicam" selected. At the bottom right of the dialog, there are two buttons: a blue "Update" button with a refresh icon and a grey "Cancel" button with an "X" icon.

Field Description

The following fields can be defined in the Create Publication Type window or updated in the Edit Publication Type window.

Name

This is the name of the publication item.

Two publication types are directly associated to the content coming from the EVS server. They are mandatory and must be defined on all C-Cast setups:

- `evs:monocam`, used for publication items with a single camera angle.
- `evs:multicam`, used for publication items with multiple camera angles.



Other publication types are defined based on the customer needs. They are based on the content type.

A customer could request, for example, a publication of type Weather, Advertisement, Career, etc. In this case, the type name should be built on the same pattern as the EVS publication item types: `<customer name>:<content description>`, for example:

- `abc:weather`, used for the publication of weather information by a customer called ABC.

Metadata Profile

This is the metadata profile associated to the publication item.

All publication items of this type will include the fields from the associated metadata profile in C-Cast Publisher.

2.4.2. Delivery Settings

Introduction



NOTE

See section "Managing Settings" on page 9 for information on how to create or update a delivery.

A delivery is the URL path through which the end-user application will access the media content published on the C-Cast Central storage.

The following screenshot shows the delivery settings to make the output files available onto the default Amazon S3 bucket:

The screenshot shows a dialog box titled "Edit Delivery" with a close button in the top right corner. The dialog contains the following fields and controls:

- Name ***: A text input field containing the value "bucket".
- Description**: An empty text input field.
- Url ***: A text input field containing the value "https://eu-west-1-content.c-cast-staging.tv".
- Active**: A checkbox that is checked.
- Update**: A blue button with a refresh icon and the text "Update".
- Cancel**: A grey button with an "x" icon and the text "Cancel".

Field Description

The following fields can be defined in the Create Delivery window or updated in the Edit Delivery window.

Name

This is the name of the delivery. The name of the delivery can refer to the end-user application that will access this delivery.

Description

This field provides more information about the delivery.



URL

This field specifies the path (URL) from which the end-user application can access the C-Cast output files.

The files are not stored and directly available on this path. The URL specified in the delivery corresponds to a CDN (on the customer side) that connects to another CDN (on C-Cast side) through which it accesses the media stored in the Amazon S3 storage system linked to C-Cast Central.

Active

This check box allows users to automatically give access (**Active** check box selected) or block the access (**Active** check box not selected) to the delivery URL from where the output files are available.

2.5. Syndication Settings

2.5.1. Configuring the Syndication

Introduction

The syndication is a mechanism by which a C-Cast Central, called the syndicator, delivers media content to another C-Cast Central, called the affiliate.

The **syndicator**, for example the organizer of an international sport event, can make media content available to **affiliates**, for example national television channels.

Setting up a syndication workflow implies configuration in the C-Cast Central of the syndicator and the affiliate.

The following steps are required to put the syndication mechanism into place:

1. "Creating the Affiliate (Syndicator)" on page 37
2. "Linking the Affiliate to a Channel Group (Syndicator)" on page 39
3. "Including Syndicated Channel(s) in a Production (Affiliate)" on page 40

Creating the Affiliate (Syndicator)

In this step, the syndicator creates, in their C-Cast Central, a new affiliate they want to send content to.

Procedure

As a syndicator, proceed as follows to create a new affiliate:

1. In the Settings menu, select **Affiliates** in the tree view on the left.
The Affiliate pane appears on the right.
2. In the Affiliate pane, click the **Create Affiliate** button to open the Create Affiliate window:



3. In the Create Affiliate window, fill in the fields as follows:
 - In the **Organization Name**, type the organization name of the affiliate. This corresponds to the organization name the affiliate members type when logging in to C-Cast Central.
 - In the **Message**, type the email that will be sent to the affiliate to invite him to use syndicated channels in his production.
4. Do one of the following:
 - If you do not need to create another affiliate, click **Create**.
 - If you need to create another affiliate, select **Create another** and click **Create**:
The first affiliate is created and a new **Create Affiliate** window opens. It includes the message you have typed for the first affiliate.

See section "Affiliate Settings" on page 41 for more details on affiliate settings.

Results

The following results from the creation of the affiliate:

- The syndicator is automatically created in the Syndicator settings of the affiliate's C-Cast Central.
- The affiliate receives an email notifying that a syndicator is created in the affiliate's C-Cast Central and including the invitation from the syndicator to share media content.
- The affiliate status is set to Active in the syndicator's C-Cast Central as soon as it has established contact with the affiliate's C-Cast Central.



Linking the Affiliate to a Channel Group (Syndicator)

Procedure

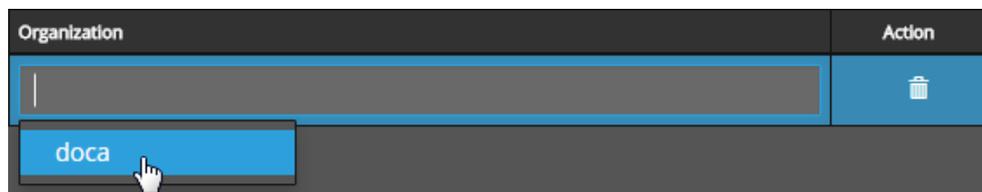
As a syndicator, proceed as follows to link the affiliate to a channel group:

1. Select the Distribution menu at the top of the main window in C-Cast Administrator.
The Distribution window is displayed.
2. In the Distribution window, select **Channels Groups** on the left pane, and select the channel group you want to link an affiliate to in the Channels Group list in the central pane.
The Channels Group parameters appear in the Channels Group area on the right.

3. Click  to bring the focus on the Affiliates area of the Channels Group area.



4. In the Affiliate area of the selected channels group, click .
A table appears with a new row to add the affiliate.
5. In the **Organization** column, click the field and select an affiliate organization from the list. You can limit the items listed by typing a text string to be included in the organization name:



The selected affiliate organization is now linked to the channels group.

Results

The following results from linking an affiliate to a channel group:

- In the syndicator's C-Cast Central, the channels included in the associated channel group are displayed in the Affiliates Details window available from the Affiliate settings in the Settings menu.
- In the affiliate's C-Cast Central, the channels included in the associated channel group are displayed in the Edit Syndicator window available from the Syndicator settings in the Settings menu.
- In the affiliate's C-Cast Central, the affiliate can add the channels from the associated channel group as syndicated channels when setting up a production.

See section "Linking Affiliates to a Channel Group" on page 89 for removing an affiliate from a channel group.

Including Syndicated Channel(s) in a Production (Affiliate)

Procedure

As an affiliate, proceed as follows to add a syndicated channel to a production:

1. Select the Contribution menu at the top of the main window in C-Cast Administrator.
The Contribution window is displayed.

2. In the Contribution window, select the production you want to configure in the production tree on the left.
The production parameters appear in the Production Configuration pane on the right.

The production parameters appear in the Production Configuration pane on the right.

3. Click  to bring the focus on the Syndication area of the Production Configuration pane:



4. In the Syndication area of your production configuration, click



A table appears with a new row. The syndicated channels shared by the visible syndicators in the Settings window is displayed as a drop-down list in the **Name** column.

5. Select the relevant syndicated channel from the list.

If a syndicated channel is already linked to another production, a chain icon  is displayed in front of the channel name.

Name	Description	Syndicator	Action
 Goals (docwriter)			
Rep. Ireland - Germany (docwriter)			
Scotland-Poland (docwriter)			

The selected syndicated channel is added and a confirmation message is displayed on the top right corner of the window.

Name	Description	Syndicator	Action
Goals	Goals	docwriter	

Results

The following results from adding a syndicated channel to a production:

- In the affiliate's C-Cast Central, the syndicated channel is added to the production.



As a consequence, the publication items delivered through this channel by the syndicator will be available in the production.

- In the affiliate's C-Cast Central, in the Syndicator settings, the syndicated channels are displayed with the status **Subscribed** in the Syndicated Channels tab.
- In the syndicator's C-Cast Central, in the Affiliate settings, the syndicated channels are displayed with the status **Subscribed** in the Channels Linked tab.

2.5.2. Affiliate Settings

Purpose



NOTE

See section "Configuring the Syndication" on page 37 for information on how to create or update an affiliate.

An affiliate is a C-Cast Central that receives media from another C-Cast Central. The C-Cast Central that sends the media content to the affiliate is called the syndicator.

The affiliate receives media content from the syndicator via one or more channel groups the syndicator has linked to the affiliate.

If you want to send media content to affiliates via the syndication mechanism, you need to create the affiliates in the settings.

After you have created the affiliate in your C-Cast Central, the message typed when creating the affiliate is sent by mail to the affiliate for information's sake. Your organization will automatically appear as a syndicator in the C-Cast Central settings of the affiliate.

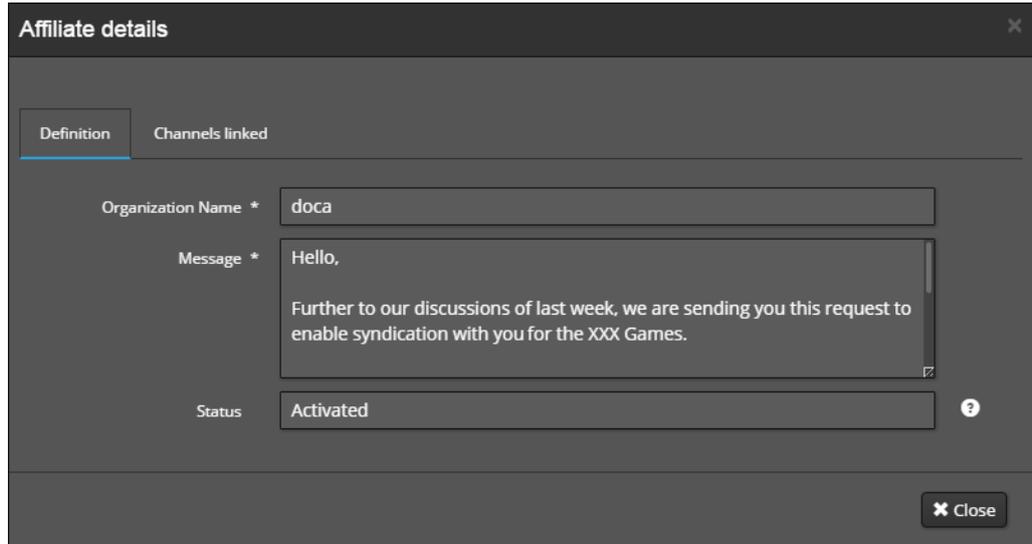
The Affiliate details are displayed in two different tabs:

Tab	Description
Definition	This tab lists the fields defined when you created the affiliate, as well as the affiliation status.
Channels Linked	This tab lists the channels linked to the affiliate, which are called the syndicated channels. The syndicator links channels to an affiliate via the Channel Group definition in the Distribution menu.

Definition Tab

In the syndicator's C-Cast Central, when you create a new affiliate, the **Organization Name** and **Message** fields have to be filled in. These two fields are described below.

In the syndicator's C-Cast Central, when you open an existing affiliate by clicking  for the affiliate, the Affiliate Details window opens. The following fields are displayed in the Definition tab. The affiliate definition can not be edited once it has been created.



The screenshot shows a window titled "Affiliate details" with a close button in the top right. It has two tabs: "Definition" (selected) and "Channels linked". Under the "Definition" tab, there are three input fields: "Organization Name" with the value "doca", "Message" with the text "Hello, Further to our discussions of last week, we are sending you this request to enable syndication with you for the XXX Games.", and "Status" with the value "Activated". A help icon (?) is next to the Status field. A "Close" button is in the bottom right corner.

Organization Name

In the **Organization Name** field, type the name of the affiliate organization. This needs to correspond to the organization of the affiliate as specified at login to the affiliate's C-Cast Central.

Message

In the **Message** field, type the invitation mail to be sent to the affiliate.

Status

The **Status** field is not editable. It displays the status of the affiliate which can be one of the following:

Status	Description
Pending	The contact is being established between the syndicator and the affiliate. This status is temporary.
Activated	The affiliate is linked to the syndicator. At this stage, the syndicator is defined as a syndicator in the C-Cast Central of the affiliate.



Status	Description
Disabled	The affiliate has already been linked to the syndicator in the past, but the affiliation is now discontinued.
Error	The syndicator has not succeeded in contacting the affiliate. Contact the EVS support team. A Retry button becomes visible right next to the status field. Press Retry to retry sending the message to the affiliate.

Channels Linked Tab

In the syndicator's C-Cast Central, after you have linked a channel group to an affiliate, the channels included in the linked channel groups are displayed in the Channels Linked tab of the Affiliate Details window for the given affiliate.

For each linked channel, the following information is displayed. This information is not editable:

ShortCode

This is the code used in the C-Cast database and in the publication API to refer to the publication channel for the distribution workflow.

Name

This is the name of the publication channel.

Channel Groups

These are the channels groups the channel is included in.

Status

This is the status of the subscription to the given channel. The following status can be displayed:

Status	Description
Shared	The channel is shared with the affiliate but the channel is currently not included in a production. The syndication is not active.
Subscribed	The channel is shared with the affiliate and the channel is currently included in a production. The syndication is active.
Unshared	The channel is no longer shared with the affiliate, but it is still included in a production. The syndication is not active, and the channel is strikethrough in the production. If a channel has never been shared with the affiliate, the channel will not appear at all in the affiliate's C-Cast Central.
Unsubscribed	The channel is shared with the affiliate but the channel is no longer included in a production. The syndication is not active.

Start Date

This is the date from which the publication channel is active. This date is for information's sake, and is meant to inform customers that relevant content will be made available through the given publication channel in the timeframe between the start and end date.

End Date

This is the date up to which the publication channel is active. This date is for information's sake, and is meant to inform customers that relevant content will be made available through the given publication channel in the timeframe between the start and end date.

2.5.3. Syndicator Settings

Purpose

A syndicator is a C-Cast Central that shares media with another C-Cast Central. The C-Cast Central that receives the media content is called the affiliate.

The syndicator sends media content to the affiliate via one or more channel groups the syndicator links to the affiliate.

Once a syndicator has added an organization as an affiliate in their C-Cast Central, the syndicator's C-Cast Central contacts the affiliate's C-Cast Central.



As soon as the communication between both C-Cast Central instances is established, the syndicator is automatically added in the Syndicator settings of the affiliate's C-Cast Central.

A syndicator is never created manually in the affiliate's C-Cast Central.

The Syndicator details are displayed in two different tabs:

Tab	Description
Definition	This tab lists information related to the syndicator, and the number of channels shared with the affiliate.
Syndicated Channels	This tab lists the channels linked to the affiliate, which are called the syndicated channels. The syndicator links channels to an affiliate via the Channel Group definition in the Distribution menu.

Definition Tab

In the affiliate's C-Cast Central, you can view the syndicator details in the Edit Syndicator window. The following fields, most of them are not editable, are displayed in the Definition tab.

Edit Syndicator

Definition | Syndicated Channels

Organization Name: docwriter

Last Exchange Date: 2016/04/28 15:16

Message: Hello,
Further to our discussions of last week, we are sending you this request to enable syndication with your for the XXX Games.

Status: Visible Hidden

Syndicated Channel count: 2

Organization Name

This is the name of the syndicator organization. This corresponds to the organization of the syndicator as specified at login to the syndicator's C-Cast Central.

Last Exchange Date

This is the date and time of the last data transfer between the syndicator and the affiliate C-Cast Central.

Message

This is the message the affiliate has received by mail from the syndicator.

Status

This is the status of the syndicator (and the syndicated channels from this syndicator). This field is editable.

By default, the status is set to **Visible**, which means the syndicator and the syndicated channels are visible.

Select **Hidden** if you no longer want to display a syndicator (because you no longer receive content from this syndicator, for example).

Setting a syndicator to **Hidden** in the affiliate's C-Cast Central has the following consequences:

- The syndicator is hidden from the list of syndicators if the filter is set to view only visible syndicators.
- The syndicator is strikethrough in the list of syndicators if the filter is set to view also hidden syndicators.
- The syndicated channels from this syndicator can no longer be selected in a production configuration.
- The syndicated channels which were already selected in a production remain visible and as subscribed in the production.

Syndicated Channel Count

This is the number of channels from the syndicator the affiliate is linked to.



Syndicated Channels Tab

In the affiliate's C-Cast Central, after the syndicator has linked a channel group to the affiliate, the channels included in the linked channel groups are displayed in the Syndicated Channels tab of the Affiliate Details window for the given affiliate.

ShortCode	Name	Productions	Status	Description	Start Date	End Date
goals	Goals	Rep. Ireland - Germany	Subscribed	Goals	2015-09-01 00:00:00	2015-11-30 00:00:00
ir-de	Rep. Ireland - Germany		Shared	Rep. Ireland - Germany	2015-10-01 00:00:00	2015-11-30 00:00:00

For each syndicated channel, the following information is displayed. This information is not editable:

ShortCode

This is the code used in the C-Cast database and in the publication API to refer to the publication channel for the distribution workflow.

Name

This is the name of the publication channel.

Productions

These are the productions the syndicated channel is included in in the affiliate's C-Cast Central. Productions can logically only appear for channels having the status **Subscribed**.

Status

This is the status of the subscription to the given channel. The following status can be displayed:

Status	Description
Shared	The channel is shared with the affiliate but the channel is currently not included in a production. The syndication is not active.
Subscribed	The channel is shared with the affiliate and the channel is currently included in a production. The syndication is active.
Unshared	The channel is no longer shared with the affiliate, but it is still included in a production. The syndication is not active, and the channel is strikethrough in the production. If a channel has never been shared with the affiliate, the channel will not appear at all in the affiliate's C-Cast Central.
Unsubscribed	The channel is shared with the affiliate but the channel is no longer included in a production. The syndication is not active.

Description

This field describes the publication channel.

Start Date

This is the date from which the publication channel is active. This date is for information's sake, and is meant to inform customers that relevant content will be made available through the given publication channel in the timeframe between the start and end date.

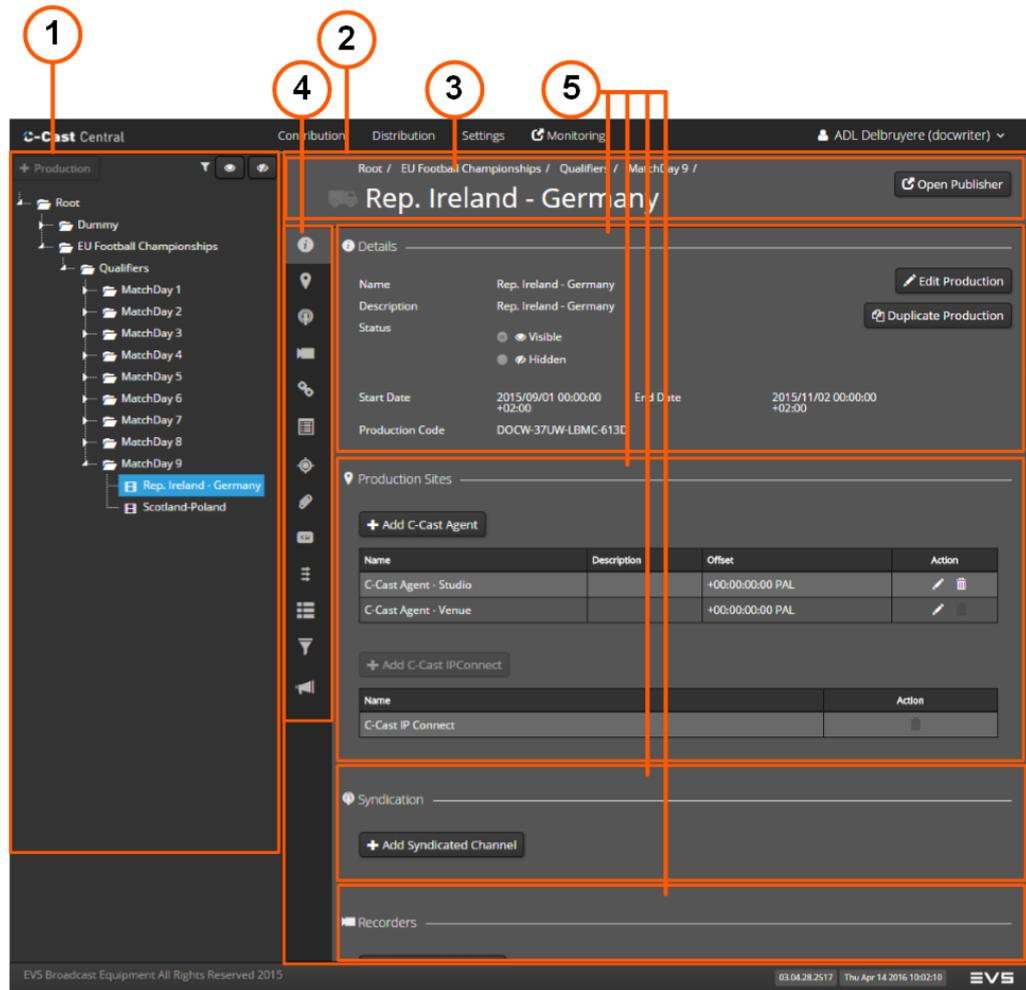
End Date

This is the date up to which the publication channel is active. This date is for information's sake, and is meant to inform customers that relevant content will be made available through the given publication channel in the timeframe between the start and end date.

3. Setting up and Managing Productions

3.1. Overview of the Production Window

The Production window contains the areas highlighted on the screenshot below:



The Production window is made up of the following areas, which are described in details below:

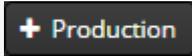
Part	Area Name
1.	Production tree
2.	Production configuration pane
3.	Title box
4.	Parameter icons
5.	Parameter areas

Area Description

Production Tree (1)

The left window pane corresponds to the production tree, which contains an expandable tree structure listing all the productions (visible or hidden).

From this pane, the following commands are available:

Button	Select this button to ...
	add a new production in the production tree. The new production is added in the selected folder.
	filter the productions displayed in the tree view: <ul style="list-style-type: none"> When the left button is selected, only visible productions are displayed in the tree. When the right button is selected, only hidden productions are displayed in the tree. When both buttons are selected or no button is selected, all productions are displayed. The tree folders are always displayed even if they do not contain a production for which the filter is active.

Production Configuration Pane (2)

The right window pane corresponds to the production configuration pane where you will configure a new production or edit an existing production.

This pane displays the parameters of the production selected in the production tree.

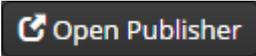
The production configuration pane includes the areas 3 to 5 in the illustration.

Title Box (3)





The upper part of the Production Configuration pane includes the following elements:

#	Element	Description
1.	Path	Path where the selected production is located in the production tree.
2.	Title	Production name
3.		Button to open the timeline of the selected production in C-Cast Publisher.

Parameter Icons (4)

The Parameter Icons allows you to easily navigate in the production parameters. The production parameters are grouped in several sets of parameters.

Click an icon to jump to the corresponding parameter box:

Icon	Parameter Set	Description
	Details	The production details are defined and editable in the Create Production window, or Edit Production window. From the Details area, the Edit Production button will open the Edit Production window, and let you edit the production details. See section "Managing Productions" on page 54.
	Production Sites	In the Production Sites parameters, you specify the C-Cast Agent and C-Cast IPConnect software that will be used in your C-Cast setup. See section "Managing Production Sites" on page 58.
	Syndication	In the Syndication parameters, an affiliate customer adds one or more syndicated channels whose publication items they want to include in the production. See section "Adding a Syndicated Channel" on page 62
	Recorders	In the Recorders parameters, you mainly configure the following: <ul style="list-style-type: none"> the recorders (record channels of EVS servers) you will use in your production; the production sites where the corresponding media content will be extracted. See section "Associating Recorders" on page 64.
	Gangs	In the Gangs parameters, you specify recorders you want to group together. When recorders are ganged together, the media content of all recorders of the gang are extracted and made available in a single multicam publication item in C-Cast Publisher. See section "Defining Gangs" on page 66.
	Metadata Profiles	In the Metadata Profiles parameters, you specify the metadata profiles you want to associate to the publication items in the production. See section "Linking Metadata Profiles" on page 68.

Icon	Parameter Set	Description
	Targets	In the Targets parameters, you specify which files are generated for the publication items published in C-Cast Publisher, and where they are sent to. See section "Adding Targets" on page 69.
	Resources	In the Resources parameters, you specify the documents you want to make available in the production. See section "Linking Resources" on page 71.
	Keyword Grids	In the Keyword Grids parameters, you specify the keyword grids you want to use in the production. When the production timeline is open C-Cast Publisher, you will be able to select keywords from these keyword grids and associate them in publication items. See section "Linking Keyword Grids" on page 72.
	Live-streams	This feature is not applicable to the current C-Cast release.
	Log Feeds	In the Log Feeds, you can specify a data feed with logging information from the venue. This makes it possible to connect the data feed to the production. This makes the logging information available in C-Cast Publisher, and allows users to import keywords and metadata fields of a log into a publication item. The data you receive has to correspond to the metadata fields you have configured. See section "Associating Log Feeds" on page 74.
	Channels	In the Channels section, you can view the channels that have been associated to the selected production in the Distribution window. See section "Viewing Channels" on page 76. From this section, you can open the Edit Channel window which allows you to change the productions associated to the channel.
	Channels Groups	In the Channels Groups, you can view the channel groups that have been associated to the selected production in the Distribution window. See section "Viewing Channel Groups" on page 77. From this section, you can open the Channel Groups pane where you associate production folders to channel groups.

Parameter Areas (5)

The parameters related to a given aspect of the production configuration are grouped into a parameter area. You can access the requested parameter area from the parameter icons, or simply by scrolling the window.



See section "Parameter Icons (4)" on page 51 for a short description of each set of parameters.

See section "Setting up a Production" on page 58 and the section specific to each parameter type for detailed instructions on how to set the various parameters.

3.2. Managing Productions

3.2.1. Creating a New Production from Scratch

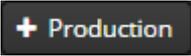
Prerequisites

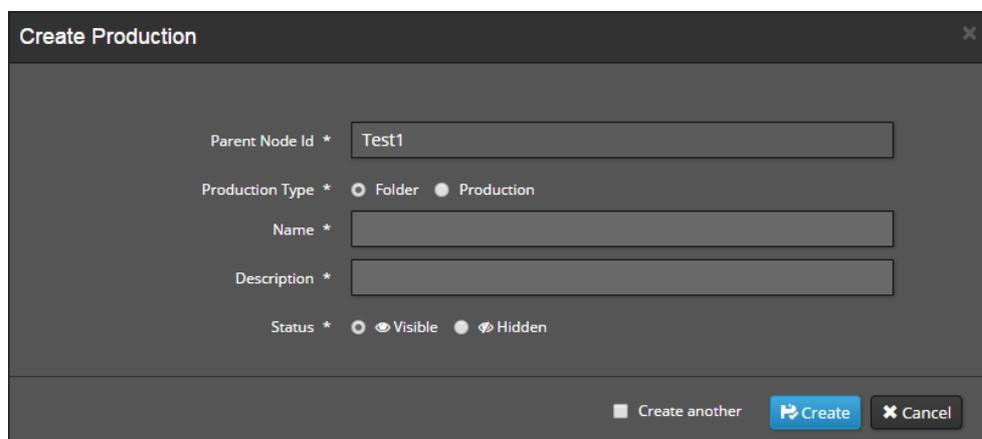
Before you create your production in C-Cast Administrator, you need to make sure that all the General and Contribution settings have already been configured in the **Settings** window ("Setting up C-Cast Central" on page 7).

Before you add a new production in the production tree structure, you need to make sure that the requested folder structure is available in the production tree. Otherwise, you need to create one or more folders in the production tree as described in the following procedure.

A production called **Dummy** is available in the production tree. It contains a default configuration based on settings already defined in the C-Cast Central settings. You can use this production as a basis for your own production by duplicating this dummy production. See section "Creating a New Production Based on an Existing One" on page 56.

How to Create a Folder in the Production Tree

1. In C-Cast Administrator, select the **Contribution** menu.
The Contribution window opens.
2. In the Contribution window, in the production tree on the left, select a folder in which you want to create a new folder. This can be the root folder, or another folder.
3. Click the Production icon 
The Create Production window opens.
4. Select **Folder** in the **Production Type** field:



5. Type a name and description for the folder in the corresponding fields.
6. Do one of the following actions:



- a. To create the new folder based on the information you have entered, click the **Create** button.
- b. To create the folder and configure an additional folder, select **Create another** and click the **Create** button.

The folder is added in the production tree at the requested location. A folder will always be visible in the production tree.

If you have selected **Create another**, a new Create Production window is directly displayed.

How to Create a Production from Scratch

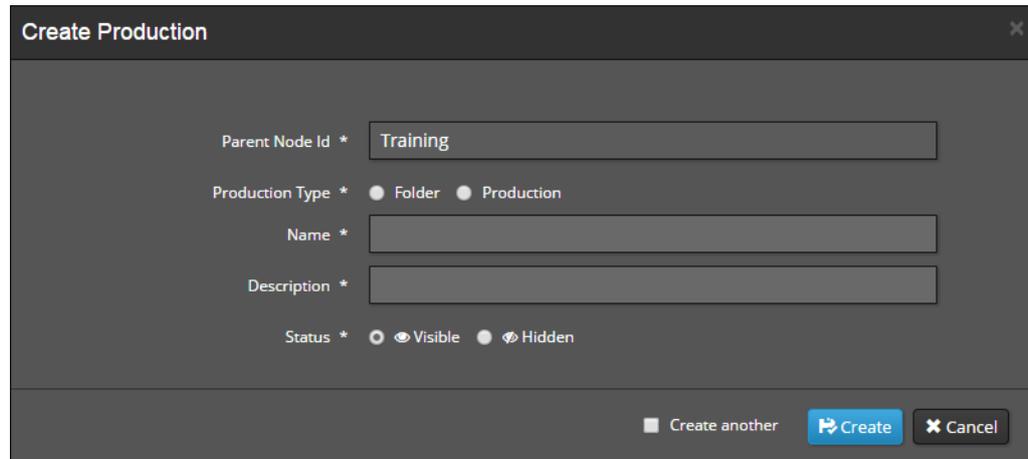
1. In C-Cast Administrator, select the **Contribution** menu.
The Contribution window opens.
2. In the Contribution window, in the production tree on the left, select a folder where you want to store your production configuration.

3. Click the Production icon .

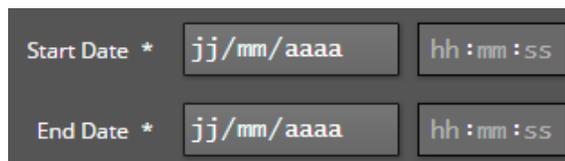
The Create Production window opens.

4. Select **Production** in the **Production Type** field.

The following fields are displayed in the Create Production window:



5. Type a name and description for the production in the corresponding fields.
6. If you want to hide the production in the production tree, select the **Hidden** status.
By default, the production will be visible.
7. Enter a start date and end date. This will set the time frame during which the production will be live on the C-Cast setup. The start and end dates correspond to the time zone of the venue.



8. If you want the start and end dates also to be expressed as the local time of a specific time zone (time zone of the administrators or of the Broadcast Center), you can specify the time shift corresponding to the requested timezone in the following fields:

Start Date *	jj/mm/aaaa	hh:mm:ss	+01:00
End Date *	jj/mm/aaaa	hh:mm:ss	+01:00

9. Do one of the following actions:
- To create the new production based on the information you have entered, click the **Create** button.
 - To create the production and configure an additional production, select **Create another** and click the **Create** button.

The production is added in the production tree at the requested location.

If you have selected **Create another**, a new Create Production window is directly displayed.



TIP

You can assign the **Hidden** status to a production you already want to prepare, keep aside, and only make visible before the production starts. Using the filter above the production tree, you will always be able to display a hidden production, and activate it later on.

3.2.2. Creating a New Production Based on an Existing One

Introduction

When the same kind of event takes place regularly, and you need to create a new production similar to a previous production, you can create a production based on an existing one using the **Duplicate** function.

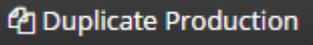
A production called **Dummy** is available in the production tree. It contains a default configuration based on settings already defined in the C-Cast Central settings. You can use this production as a basis for your own production by duplicating this dummy production.

How to Create a Production Based on an Existing One

To create a production based on an existing one, proceed as follows:

- In C-Cast Administrator, select the **Contribution** menu.
The Contribution window opens.
- In the Contribution window, in the production tree on the left, select the production you want to duplicate.



- Click the **Duplicate Production** button  on the right of the Production Configuration pane.

The Duplicate Production window opens:

Duplicate Production

Parent Node Id * Football

Production Type * Folder Production

Name *

Description *

Status * Visible Hidden

Start Date * +01:00
Local time : Tue Jun 09 2015 01:00:00 GMT+0200 (Romance Daylight Time)

End Date * +01:00
Local time : Fri Sep 04 2015 01:00:00 GMT+0200 (Romance Daylight Time)

Configuration to duplicate

- Production Sites
- Recorders
- Link between Recorders and C-Cast Agent
- Gangs
- Metadata Profile
- Targets
- Resources
- Keywords Grids
- Log Feeds

- In the **Parent Node ID** field, click **Select**, and select the folder in which the duplicated production has to be added, then click the **Select** button.
- In the **Name** and **Description** fields, modify the name and the description of the production.
- If you want to hide the production in the production tree, select the **Hidden** status. By default, the production will be visible.
- Enter a **Start date** and **End date** for your production. This will set the time frame during which the production will be live on the C-Cast setup. The start and end dates correspond to the time zone of the venue.
- In the **Configuration to duplicate** area, select the parameter types whose values you want to take over in the duplicated production.
- Click **Duplicate** to create the duplicated production.

The duplicated production is added to the requested folder. You can now edit it as explained in the section "Editing General Production Settings" on page 58.

3.3. Setting up a Production

3.3.1. Editing General Production Settings

Introduction

Once you have created a production, you can still edit the general settings you have previously defined in the **Create Production** or **Duplicate Production** windows.

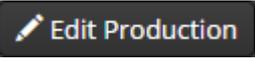


NOTE

When you edit general or specific production settings on a live production, the configuration change will be taken into account only for the media content extracted after the changes.

How to Edit General Production Settings

To edit the general settings of a production, proceed as follows:

1. In C-Cast Administrator, select the **Contribution** menu.
The Contribution window opens.
2. In the Contribution window, in the production tree on the left, select the production whose general settings you want to edit.
The production settings are displayed in the Production Configuration pane on the right.
3. Click  on the right of the Production Configuration pane.
The Edit Production window opens.
4. Edit the settings in the production window as explained in the section "Creating a New Production from Scratch" on page 54.
5. Click **Update**.
The general settings of your production are updated.

3.3.2. Managing Production Sites

Introduction

A production site is the physical location where a part of the C-Cast distributed platform will be deployed.

In the production configuration, you define production sites for the C-Cast Agent and C-Cast IPConnect used in a C-Cast workflow.



You will deploy a Cast Agent in each physical location where you need to extract and transfer content into C-Cast Central.

You can deploy a single C-Cast IPConnect in a C-Cast workflow.



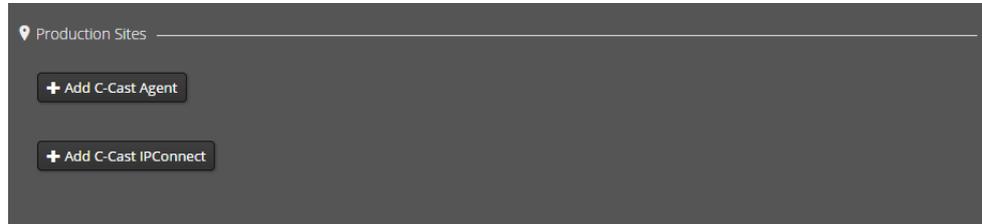
NOTE

- Each time you add a C-Cast Agent production site, you need to specify the recorders to be made available in the C-Cast Agent in the Recorders area.
- When you change the configuration of a production site, you need to launch the C-Cast Agent for changes to be taken into account in this application.

Where to Assign and Manage a Production Site

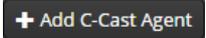
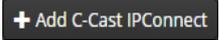
You assign and manage production sites to the selected production via the Production Sites parameters that you can reach as follows:

1. Select the Contribution menu at the top of the main window in C-Cast Administrator.
The Contribution window is displayed.
2. In the Contribution window, select the production you want to configure in the production tree on the left.
The production parameters appear in the Production Configuration pane on the right.
3. Click  to bring the focus on the Production Sites area of the Production Configuration pane:



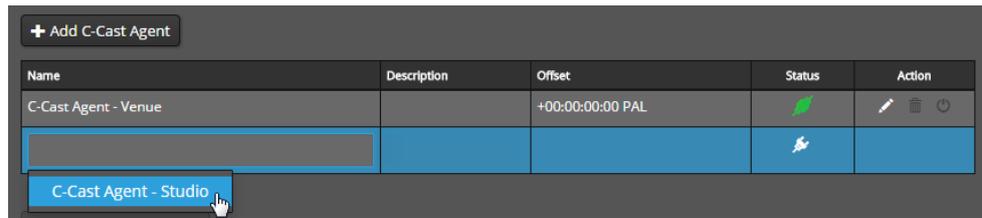
How to Assign a Production Site

To assign a C-Cast Agent or a C-Cast IPConnect production site, proceed as follows (example with C-Cast Agent):

1. In the Production Sites area of your production configuration, click 
or .

A table with a new row appears to let you add your production site. The list of the requested production sites defined in the Settings window is displayed in a drop-down field in the **Name** column.

2. Select the relevant production site from the list:



The selected production site is added and a confirmation message is displayed in the top right corner of the window.



The production site is added with the parameters defined initially in the Settings window.

NEW !

The action buttons let you edit (not available for C-Cast IPConnect), unassign or remotely terminate the open production for the given production site.

NEW !

Production Site Statuses

When a production site is added to a production, it has the status **waiting for connection**



For your production site to be functional, you need to configure your production in the given production site by means of the wizard. The production site will then appear as **connected**



Should the production site application be closed, or the connection to the production site

be lost, the production site would appear as **disconnected** . You would need to reactivate the connection to see it **connected** again.

How to Edit the Settings of a C-Cast Agent Production Site

Principles

When you edit the settings of a C-Cast Agent production site, the modified settings are only valid for the production in which they have been modified.

You can edit the settings of a C-Cast Agent production site as it is connected to the workflow. In this case, you need to relaunch the C-Cast Agent for changes to be taken into account in this application.

Procedure

To modify the initial settings of the C-Cast Agent production, proceed as follows in the Production Sites area:

1. Click  in the row corresponding to the C-Cast Agent production site you want to edit.

The settings of the C-Cast Agent production site are displayed in an Edit window

2. Modify the settings as requested.

See section "C-Cast Agent Settings" on page 17 for a description of the various fields displayed in the Edit window.

3. Click **Update** to validate the changes.

How to Unassign a Production Site from a Production

To unassign a production site (C-Cast Agent or C-Cast IPConnect) from a production, proceed as follows in the Production Sites area:

1. Make sure the C-Cast Agent or C-Cast IPConnect application is closed, otherwise you will not be able to unassign it.

2. Click  in the row corresponding to the production site you want to unassign.

The production site is directly removed and no confirmation is requested.

NEW !

How to Remotely Terminate the Production for a Production Site

You can only remotely terminate a production when the production site (C-Cast Agent or C-Cast IPConnect) is disconnected:

- In the Production Sites area, click  in the row corresponding to the production site for which you want to remotely terminate the production.

The production is terminated and the production site is displayed as **waiting for**

connection .

If you restart a C-Cast Agent or C-Cast IPConnect previously defined as a production site, you will be prompted either to confirm that the production is terminated or to relaunch the wizard and reassign the production site to the production.

3.3.3. Adding a Syndicated Channel

Introduction

A syndicated channel is a publication channel that a syndicator shares with an affiliate.

When the syndicator has created the affiliate in his C-Cast Central, and added the affiliate to the channel group including one or more channels, the affiliate has access to these syndicated channels in their C-Cast Central.

The affiliate can link the syndicated channels to one or more productions when setting up a production. Only then will the affiliate receive the media content delivered via the syndicated channel in his production.

Where to Add a Syndicated Channel

As an affiliate, you can add a syndicated channel to the selected production via the Syndicated Channels parameters that you can reach as follows:

1. Select the Contribution menu at the top of the main window in C-Cast Administrator.

The Contribution window is displayed.

2. In the Contribution window, select the production you want to configure in the production tree on the left.

The production parameters appear in the Production Configuration pane on the right.

3. Click  to bring the focus on the Syndication area of the Production Configuration pane:





How to Add a Syndicated Channel

As an affiliate, you can add one or more syndicated channel to your production to receive media content from a syndicator.

To add a syndicated channel, proceed as follows:

1. In the Syndication area of your production configuration, click

+ Add Syndicated Channel

A table appears with a new row. The syndicated channels shared by the visible syndicators in the Settings window is displayed as a drop-down list in the **Name** column.

2. Select the relevant syndicated channel from the list.

If a syndicated channel is already linked to another production, a chain icon  is displayed in front of the channel name.

Name	Description	Syndicator	Action
 Goals (docwriter)			
Rep. Ireland - Germany (docwriter)			
Scotland-Poland (docwriter)			

The selected syndicated channel is added and a confirmation message is displayed on the top right corner of the window.

Name	Description	Syndicator	Action
Goals	Goals	docwriter	

- In the affiliate's C-Cast Central, the syndicated channel is added to the production. As a consequence, the publication items delivered through this channel by the syndicator will be available in the production.
- In the affiliate's C-Cast Central, in the Syndicator settings, the syndicated channels are displayed with the status **Subscribed** in the Syndicated Channels tab.
- In the syndicator's C-Cast Central, in the Affiliate settings, the syndicated channels are displayed with the status **Subscribed** in the Channels Linked tab.

3.3.4. Associating Recorders

Introduction

Recorders are defined in the C-Cast Central settings in C-Cast Administrator with a name and a shortcode. Each recorder is a source of content.

Recorder profiles, defined in the C-Cast Central settings in C-Cast Administrator, consist of a list of recorders used as template on productions.

In this step of the production configuration, you will associate a recorder profile that includes the recorders you want to use in your production. Once you have associated a recorder profile, you need to specify the recorders to be made available in each C-Cast Agent of the C-Cast workflow.

A single recorder profile can be assigned to a given production. The same recorder profile can however be assigned to several productions.

Where to Associate a Recorder Profile

You associate a recorder profile to the selected production via the Recorders parameters that you can reach as follows:

1. Select the Contribution menu at the top of the main window in C-Cast Administrator.

The Contribution window is displayed.

2. In the Contribution window, select the production you want to configure in the production tree on the left.

The production parameters appear in the Production Configuration pane on the right.

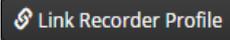
3. Click  to bring the focus on the Recorders area of the Production Configuration pane:



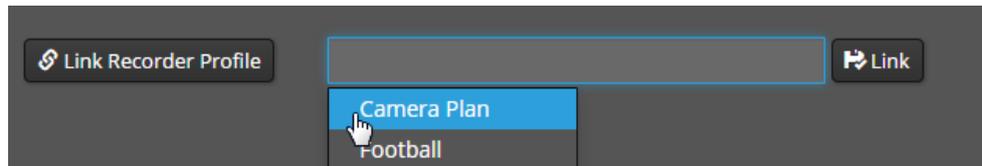


How to Link a Recorder Profile

To link a recorder profile to the selected production, proceed as follows:

1. In the Recorders area of your production configuration, click 

A field appears next to the button with the list of recorder profiles defined in the Settings window:



2. Select the requested recorder profile from the list and click 

All cameras of the selected recorder profile are added in a table with their shortcode and description:

ShortCode	Description	<input type="checkbox"/> Automatic Publishing	<input type="radio"/> C-Cast Agent Studio	Action
cam00	PGM	<input type="checkbox"/>	<input type="radio"/>	
cam01	Main Camera	<input type="checkbox"/>	<input type="radio"/>	
cam02	Close Camera	<input type="checkbox"/>	<input type="radio"/>	
cam03	Offside left	<input type="checkbox"/>	<input type="radio"/>	
cam04	Offside Right	<input type="checkbox"/>	<input type="radio"/>	
cam06	Steadycam	<input type="checkbox"/>	<input type="radio"/>	
cam05	High Behind Goal	<input type="checkbox"/>	<input type="radio"/>	
cam07	Behind Goal Left	<input type="checkbox"/>	<input type="radio"/>	
cam08	Behind Goal Right	<input type="checkbox"/>	<input type="radio"/>	
cam09	Team Bench	<input type="checkbox"/>	<input type="radio"/>	
cam10	Aerial	<input type="checkbox"/>	<input type="radio"/>	
cam11	Helicopter	<input type="checkbox"/>	<input type="radio"/>	

3. (Optional) If you want the media content from given recorders to be automatically set to **Published** in C-Cast Publisher for this production, select the **Automatic Publishing** check box for the requested recorders.

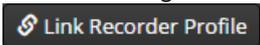
All video assets corresponding to recorders with **Automatic Publishing** activated will therefore automatically be made available to viewers and partners when the publication item including such video assets will effectively be published.

The recorders are linked to the production. See also the section "How to Make Recorders Available in C-Cast Agent" on page 66.



NOTE

You can change the associated recorder profile by clicking

 and following the above-detailed procedure again.

How to Make Recorders Available in C-Cast Agent

Each time you assign a C-Cast Agent production site to a production, you need to specify which recorders should be made available in this C-Cast Agent. A recorder can be made available in only one C-Cast Agent at a time.

The actual selection of the recorders from which media content will be extracted is done in the C-Cast Agent setup wizard, from the list of available recorders.

To make recorders available in a C-Cast Agent, proceed as follows:

- In the Recorders area, in the column corresponding to a C-Cast Agent, select the recorders you want to make available in this Cast Agent in one of the following ways:
 - To select all recorders of the recorder profile for a C-Cast Agent, select the radio button in the table header:

ShortCode	Description	<input type="checkbox"/> Automatic Publishing	<input checked="" type="radio"/> C-Cast Agent Studio	Action
cam00	PGM	<input type="checkbox"/>	<input type="radio"/>	
cam01	Main Camera	<input type="checkbox"/>	<input type="radio"/>	

- To select individual recorders in the recorder profile for a C-Cast Agent, select the radio button in the recorder row in the column of the C-Cast Agent:

ShortCode	Description	<input type="checkbox"/> Automatic Publishing	<input type="radio"/> C-Cast Agent Studio	Action
cam00	PGM	<input type="checkbox"/>	<input checked="" type="radio"/>	
cam01	Main Camera	<input type="checkbox"/>	<input type="radio"/>	

The selected recorders will be made available in the setup wizard of the corresponding C-Cast Agent.

3.3.5. Defining Gangs

Introduction

Gangs are groups of recorders defined for given production. A recorder can be associated to several gangs. In this respect, the C-Cast gangs differ from the ones defined in IPDirector, where a recorder can only be associated to a single gang.

The media content of all recorders mapped in a C-Cast Agent is extracted by this C-Cast Agent. Based on the selection made by the IPDirector operator, the extracted media content is made available in C-Cast Publisher as multicam publication items that include the video assets corresponding to the recorders included in the gang.

You can define several gangs of recorders in a production, and a recorder can belong to more than one gang. If the IPDirector operator creates a clip on a recorder included in two C-Cast gangs, this will trigger the creation of a single publication item including the video assets from all recorders of both gangs.



NOTE

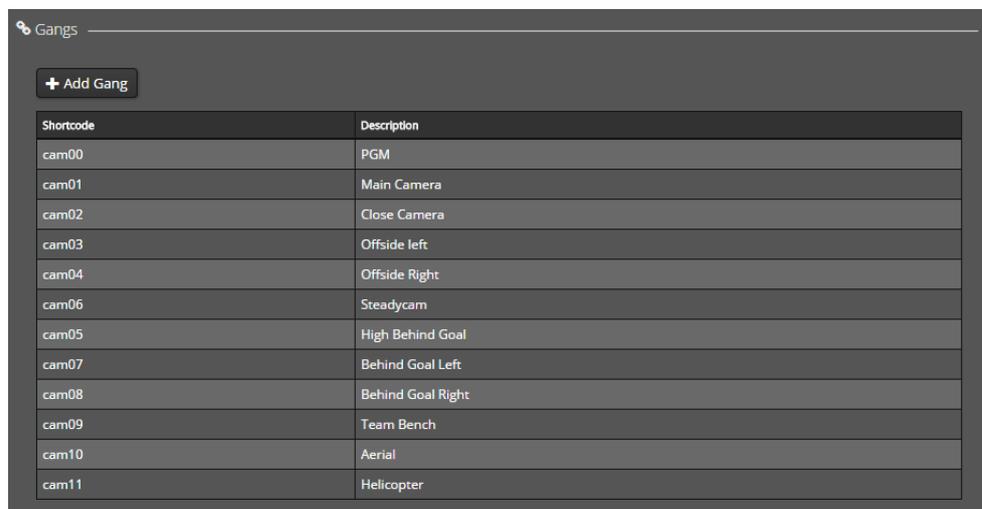
You need to assign a recorder profile to a production before you can define gangs of recorders.



Where to Define a Recorder Gang

You define a recorder gang in the selected production via the Gangs parameters that you can reach as follows:

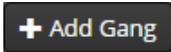
1. Select the Contribution menu at the top of the main window in C-Cast Administrator.
The Contribution window is displayed.
2. In the Contribution window, select the production you want to configure in the production tree on the left.
The production parameters appear in the Production Configuration pane on the right.
3. Click  to bring the focus on the Gangs area of the Production Configuration pane:

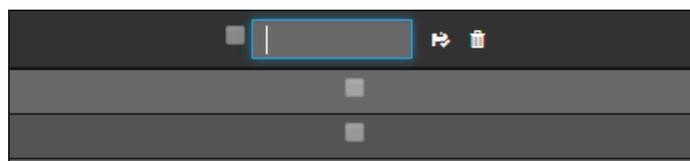


The recorders of the recorder profile associated to your production are displayed as a table in the Gangs area.

How to Define a Recorder Gang

To define a gang of recorders in a production, proceed as follows:

1. In the Gangs area of your production configuration, click .
A column without header is added to the table displaying the recorders of the associated recorder profile:



2. In the **Header** field, type a name for the gang you want to add and click  to save the gang name.
3. Do one of the following to select the recorders you want to include in the gang:

- To include all recorders of the recorder profile in the same gang, select the check box in the header.
- To include one or more recorders of the recorder profile in a gang, select the check box corresponding to the recorders you want to include in the gang.

Future multicam publication items will be created based on this gang.

How to Rename a Gang

1. In the Gangs area of your production configuration, click  next to the gang name you want to modify.

The **Gang Name** field becomes editable.

2. Change the gang name and click  to save and validate the new name.

How to Remove a Gang

- In the Gangs area of your production configuration, click  next to the gang you want to remove.

The gang is directly removed, and a confirmation message is displayed in the top right of the window.

3.3.6. Linking Metadata Profiles

Introduction

You need to link a metadata profile to the production. This metadata profile usually contains general metadata fields such as a title and a description. These fields will be available in each publication item of the production in C-Cast Publisher, and in the whole C-Cast workflow. You can only link one metadata profile to the production.

In C-Cast Publisher, the publication items will additionally inherit the fields from the metadata profile associated to the publication type.

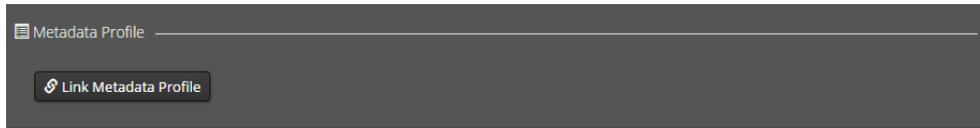
Where to Link a Metadata Profile

You link a metadata profile to the selected production via the Metadata Profile parameters that you can reach as follows:

1. Select the Contribution menu at the top of the main window in C-Cast Administrator.
The Contribution window is displayed.
2. In the Contribution window, select the production you want to configure in the production tree on the left.
The production parameters appear in the Production Configuration pane on the right.

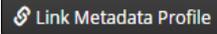


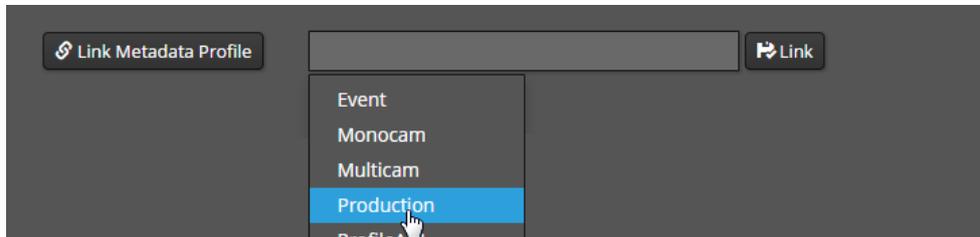
3. Click  to bring the focus on the Metadata Profile of the Production Configuration pane:



How to Link a Metadata Profile

To link a metadata profile to the selected production, proceed as follows:

1. In the Metadata Profile area of your production configuration, click . A field appears next to the button with the list of the metadata profiles defined in the Settings window:



2. Select the metadata profile you want to link to the production from the list and click .

The name of the metadata profile is displayed next to the Link Metadata Profile button, and all fields of the selected metadata profile are added in a table with their name and shortcode:



NOTE

You can change the associated metadata profile by clicking

 and following the above-detailed procedure again.

3.3.7. Adding Targets

Introduction

A target is the association of a **physical resource** including the media content (called a rendition) and of a **physical location**, in a given C-Cast setup, the physical resource should be sent to .

The following target has to be defined:

- **Mezzanine Target:** This target type, called **mezzanine** in short, is always necessary in a C-Cast workflow and is the resource file used to generate the output files (activities). A single mezzanine file is generated per video asset in a C-Cast workflow.

In the production configuration, you need to specify the targets (mezzanine) that will/can be used to process the video assets included in the publication items of your production.

Where to Add Targets

You add targets to the selected production via the Targets parameters that you can reach as follows:

1. Select the Contribution menu at the top of the main window in C-Cast Administrator.
The Contribution window is displayed.
2. In the Contribution window, select the production you want to configure in the production tree on the left.
The production parameters appear in the Production Configuration pane on the right.

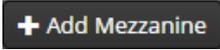
3. Click  to bring the focus on the Targets area of the Production Configuration pane:



How to Add a Mezzanine Target

You need to associate one and only one mezzanine target to your production, otherwise there will be no resource file available in the C-Cast workflow to generate the output files for distribution.

To add a mezzanine target, proceed as follows:

1. In the Targets area of your production configuration, click .
A table appears for the mezzanine target with a new row. The list of mezzanine targets defined in the Settings window is displayed in a drop-down field in the **Name** column.
2. Select the relevant mezzanine target from the list:

Name	Description	Automatic Publishing	Action
<input type="text"/>		<input type="checkbox"/>	
Mezzanine (High-Speed Transfer)			
Mezzanine (Standard Transfer)			

The selected mezzanine target is added and a confirmation message is displayed in the top right corner of the window.

Name	Description	Automatic Publishing	Action
Mezzanine (Standard Transfer)	Transfer for the mezzanine file towards Amazon with Standard profile	<input type="checkbox"/>	



- In the added row, select the **Automatic Publishing** check box if you want to automatically publish all video assets of your production to the mezzanine target (recommended).

The mezzanine target has been added to your production and a mezzanine file will be generated to all video assets of your production.

How to Remove a Target

- In the Targets area of your production configuration, click  in the row corresponding to the target you want to remove.

The target is directly removed.

3.3.8. Linking Resources

Introduction

Resources are documents or files that can be used to complete a C-Cast workflow, or that can be useful in the C-Cast workflow.

You can link resources to your production to make them available via the setup wizard of the C-Cast IPConnect application. This will allow IPConnect operators to have them at hand in IPConnect and download them when needed.

Where to Link Resources

You link resources to the selected production via the Resources parameters that you can reach as follows:

- Select the Contribution menu at the top of the main window in C-Cast Administrator.
The Contribution window is displayed.
- In the Contribution window, select the production you want to configure in the production tree on the left.

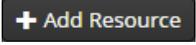
The production parameters appear in the Production Configuration pane on the right.

- Click  to bring the focus on the Resources area of the Production Configuration pane:



How to Link Resources

To link resources to your production, proceed as follows:

1. In the Resources area of your production configuration, click 

A table appears for the resources with a new row. The list of resources defined in the Settings window is displayed in a drop-down field in the **Name** column.
2. Select the requested resource from the list:

Name	Type	Action
<input type="text" value="Test"/>		

The selected resource is added and a confirmation message is displayed in the top right corner of the window.

Name	Type	Action
Test	Document	

The resource has been added to your production and it will be available in the setup wizard of the C-Cast IPConnect application.

How to Remove a Resource

- In the Resources area of your production configuration, click  in the row corresponding to the resource you want to remove.

The resource is directly removed.

3.3.9. Linking Keyword Grids

Introduction

If you want the publication items of your production to include keywords, you need to link one or more keyword grids to your production.

When keywords are linked to media content upwards in a C-Cast workflow (for example in clips created in IPDirector or in log feeds made available in C-Cast Publisher), a keyword linked to the media content will only be imported into C-Cast if it matches a keyword of a keyword grid associated to the production.

When keywords are not used upwards in the C-Cast workflow, you can associate keywords to publication items in C-Cast Publisher: You will select the keywords from the keywords grids linked to the production.



Keyword and keyword types can play an important role in the C-Cast workflow:

- Keywords can be used as secondary criteria to filter the publication items made available through a publication channel.
- Keywords and their associated keyword types can be used as basis information to automatically complete metadata fields with phrases.
- Keywords and their associated keyword types can be used to display specific icons when the media content is exposed to viewers.

Where to Link Keyword Grids

You link keyword grids to the selected production via the Keyword Grids parameters that you can reach as follows:

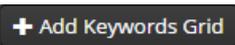
1. Select the Contribution menu at the top of the main window in C-Cast Administrator.
The Contribution window is displayed.
2. In the Contribution window, select the production you want to configure in the production tree on the left.
The production parameters appear in the Production Configuration pane on the right.

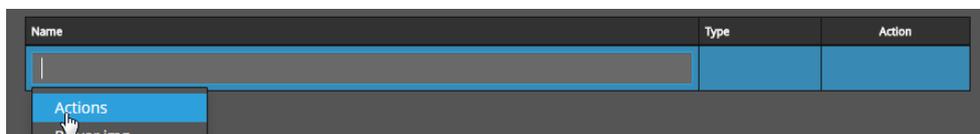
3. Click  to bring the focus on the Keyword Grids area of the Production Configuration pane:



How to Link a Keyword Grid

To link a keyword grid to your production, proceed as follows:

1. In the Keyword Grids area of your production configuration, click 
A table appears for the keyword grids with a new row. The list of keyword grids defined in the Settings window is displayed in a drop-down field in the **Name** column.
2. Select the requested keyword grid from the list:



The selected keyword grid is added and a confirmation message is displayed in the top right corner of the window.

Name	Type	Action
Actions	ACTION	

How to Remove a Keyword Grid

- In the Keyword Grid area of your production configuration, click  in the row corresponding to the keyword grid you want to remove.

The keyword grid is directly removed.

3.3.10. Associating Log Feeds

Introduction

You can import keyword and metadata information from a log to a publication item in C-Cast Publisher. To this end, you need to reference in this section the log feed you want to work with in C-Cast Publisher. You can reference more than one log feed in the production configuration.

A log feeds pane with the logs data will be displayed in C-Cast Publisher only when a log feed is referenced in the production configuration.

Warnings

- The log feed path must be defined in `https://`
- The following parameters must be included in the header of the server response when the server delivers the log feeds:
 - `Access-Control-Allow-Credentials: true`
 - `Access-Control-Allow-Origin: https://my.c-cast.tv`

Where to Associate a Log Feed

You associate a log feed to the selected production via the Log Feeds parameters that you can reach as follows:

1. Select the Contribution menu at the top of the main window in C-Cast Administrator.

The Contribution window is displayed.

2. In the Contribution window, select the production you want to configure in the production tree on the left.

The production parameters appear in the Production Configuration pane on the right.

3. Click  to bring the focus on the Log Feeds area of the Production Configuration pane:

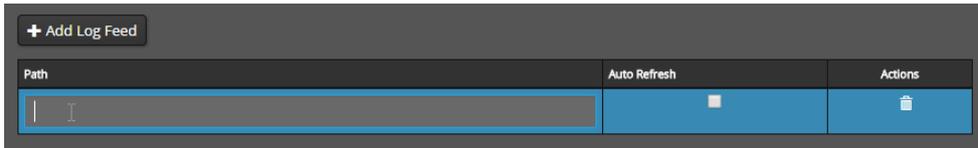




How to Associate a Log Feed

To associate a log feed to your production, proceed as follows:

1. In the Log Feed area of your production configuration, click . A table appears with a new row.
2. In the **Path** field, type the full https:// path to the .json file used as the log feed:



3. If you want the log information to be automatically updated in the Log Feeds pane of C-Cast Publisher, select the **Auto Refresh** check box for the log feed.

The reference to the log feed is added to your production and a confirmation message is displayed in the top right corner of the window.

Path	Auto Refresh	Actions
https://ccc-sandbox-eu-west-1-api.s3.amazonaws.com/integrator/INT1/85065838integrator02/3.0/LogFeeds/Football-Example.json	<input checked="" type="checkbox"/>	

When Publisher operators will use C-Cast Publisher, they will see the log feed in the Publisher user interface, and will be able to import keywords and metadata from a log to a publication item.

How to Dissociate a Log Feed

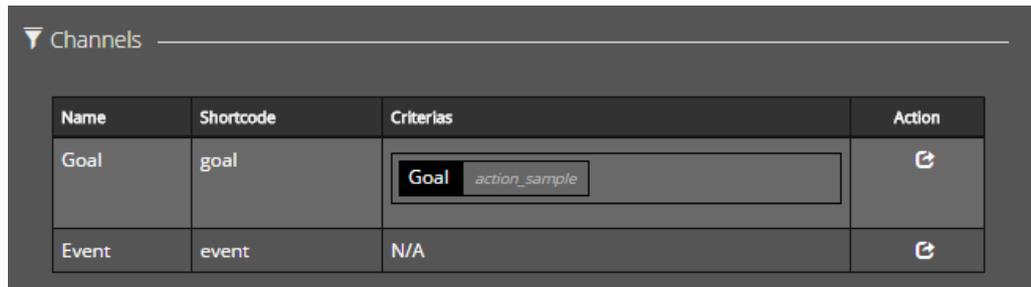
- In the Log Feed area of your production configuration, click  in the row corresponding to the log feed you want to dissociate.

The log feed is directly removed. Next time a Publisher operator will work in C-Cast Publisher, the log feed will no longer be available.

3.3.11. Viewing Channels

Introduction

In the production configuration, you can view the channels through which the publication items of the production will be delivered to viewers and/or partners:



Name	Shortcode	Criterias	Action
Goal	goal	Goal action_sample	
Event	event	N/A	

From there, you can open the Edit Channel window of a given channel and change the channel configuration.

See section "Role of Channels and Channel Groups" on page 79 for a detailed description of channels and their roles.

Channels Area

The Channels area lists the channels in which the production is included, and provides the following information:

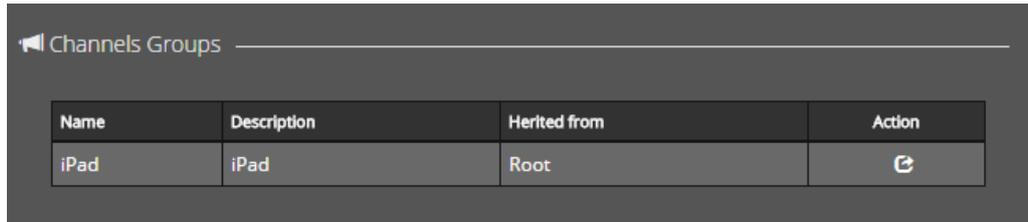
Field Name	Description
Name	Name of the channel
Shortcode	Shortcode of the channel
Criteria	Keywords associated to the channel to filter the publication items to be published through the channel.
Action	
	Opens the Edit Channel window for this channel, and allows the user to change the channel configuration. See section "Setting up Channels" on page 91.



3.3.12. Viewing Channel Groups

Introduction

In the production configuration, you can view the channel groups in which the production is included:



From there, you can open the Channel Groups pane in the Distribution window where you edit the channels group.

See section "Role of Channels and Channel Groups" on page 79 for a detailed description of channels and their roles.

Channels Group Area

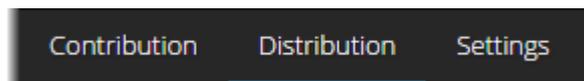
The Channels Group area lists the channel groups in which the production is included, and provides the following information:

Field Name	Description
Name	Name of the channels group.
Description	Description of the channels group.
Herited from	Parent folder associated to the channels group and included into the
Action	
	Opens the Channels Group pane for the given channels group. From this pane, you can select groups of productions, stored in a folder, which will all be published in this channels group. See section "Setting up Channel Groups" on page 81

4. Setting up Media Distribution

4.1. Overview of the Configuration for Media Distribution

The parameters for the media distribution are configured in C-Cast Administrator, in the Distribution menu:

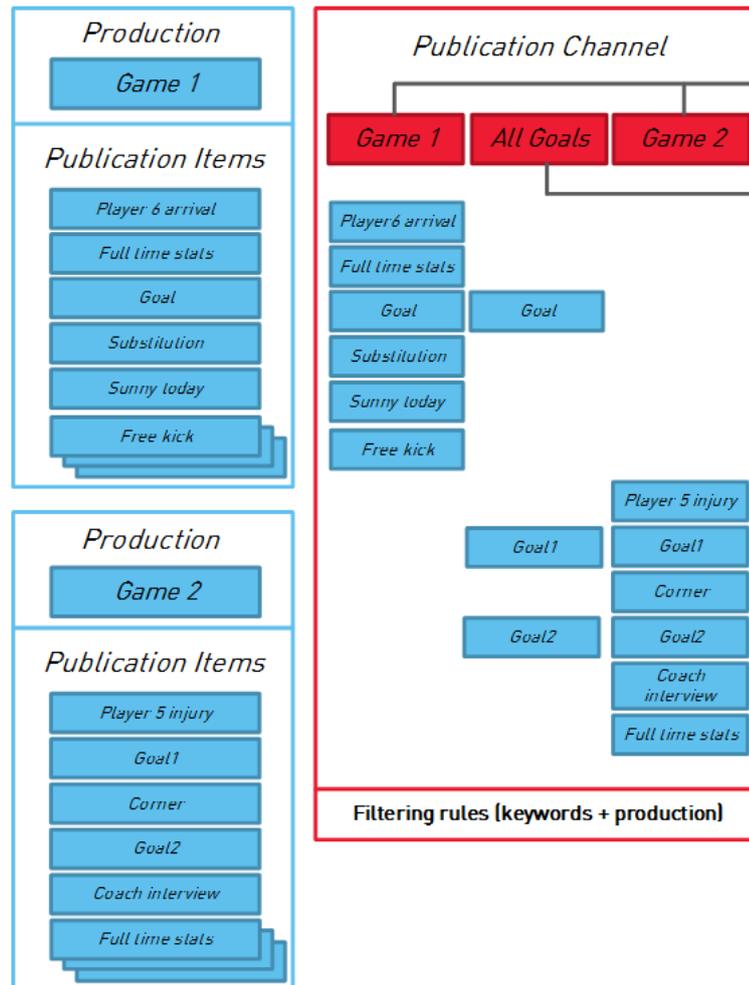


The following elements need to be configured for the media distribution in a C-Cast workflow:

- *Which media content has to be made available* to the requested software platforms or viewer categories.
The content to be made available is defined through **Channels**. The productions available in the **Channels** must be specified in the **Productions Groups** configured in the **Channels Groups**.
See section "Defining a New Channel" on page 94.
- *In which renditions the media content has to be made available* to the requested software platforms or viewer categories.
The renditions to be made available are defined via the **Renditions** configured in the **Channels Groups**.
See section "Defining a Rendition Profile" on page 86.
- *Where the end-user applications will access the media content (renditions)* published on the C-Cast Central S3 storage.
The access path (URL) to the renditions is defined via the **Deliveries** configured in the **Channels Groups**.
See section "Defining a Rendition Profile" on page 86.

4.2. Role of Channels and Channel Groups

Role of Channels



A publication channel consists in an editorial selection of publications items grouped or filtered on various criteria, that are distributed in a bundle to the viewers and/or partners.

The publication channel may be an ongoing sport event (e.g. A soccer game would be published in one channel), or a topic based collection such as all publications relating to one player, city, type of actions (e.g. goals), etc.

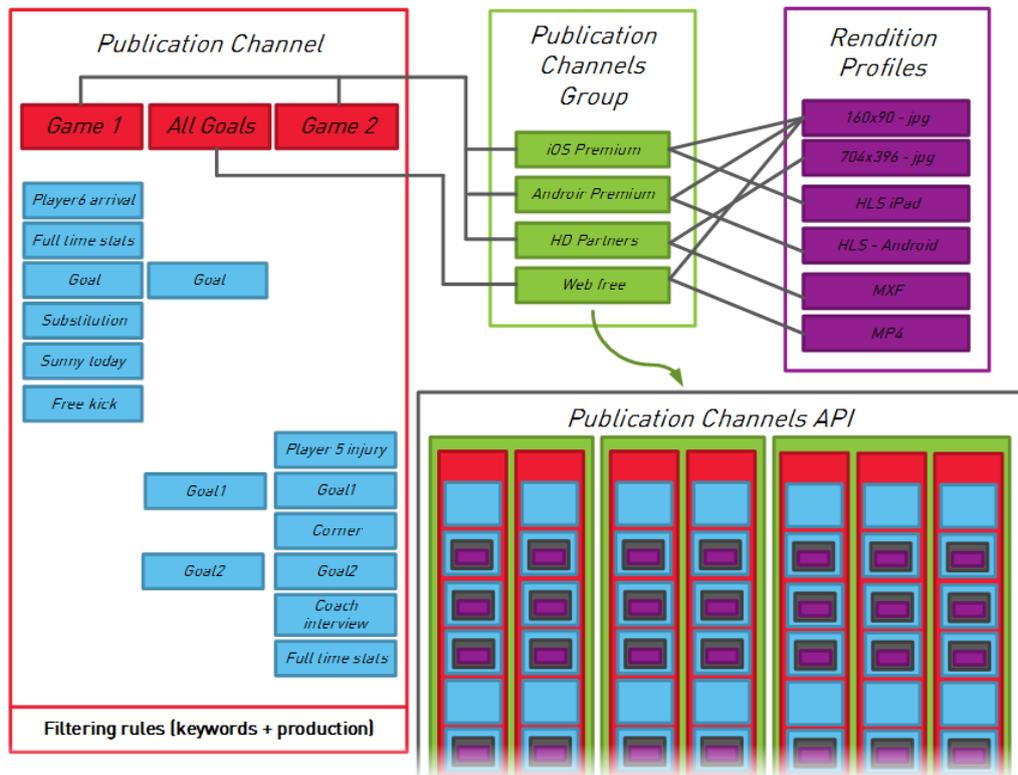
A publication item has to be included into and published in a publication channel to be available to viewers and partners. This inclusion can be automatic, based on rules, or manual.

In C-Cast Administrator, administrators can associate one or more productions to a publication channel, and add filtering rules based on keywords. The publication items will be included in a publication channel based on these associations: The publication items

belonging to at least one production, and having at least one keyword in common with the criteria defined in the publication channel will automatically be linked to this publication channel.

In C-Cast Publisher, the association to the publication channel is recomputed each time the publication item is saved.

Role of Channel Groups



The publication channels groups provide a way to differentiate and/or group publication channels: This might be needed for various reasons:

- **Technical reason:** Same publication channels but different targeted platforms with different rendition needs (ex: iOS vs. Android devices);
- **Content access rights:** Different publication channels with different publication items (ex: free vs. premium content, host broadcaster vs. partner content).

A publication channel group can include one or more publication channels.

A publication channel can be linked to one or more publication channel groups.

A publication channel group is made up of the following elements:

- One or more **renditions profiles** which define which **rendition** has to be generated and made available through which **delivery** (URL) to the end-user application.
- One or more **production groups**, which specify the productions you will be able to assign to the publication channels.

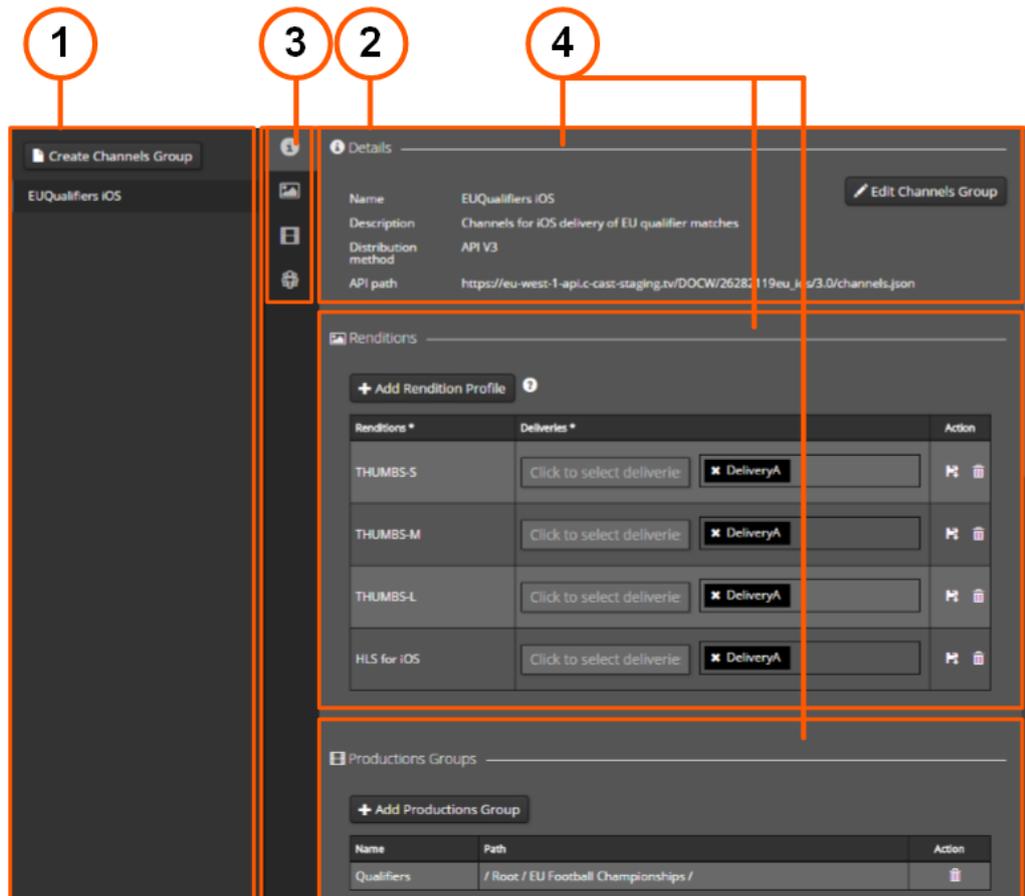
To each publication channels group corresponds a publication channels API, that means the .json files specifying all elements (channels, publication items, etc.) made available within the C-Cast workflow.

4.3. Setting up Channel Groups

4.3.1. Description of the Channels Group Pane

Overview

The Channels Group pane contains the areas highlighted on the screenshot below:



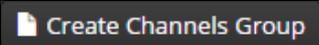
Area Description

The Settings window is made up of the following areas, which are described in details below:

Part	Area Name
1.	Channel Group list
2.	Channel Group area
3.	Parameter icons
4.	Parameter areas

Channel Group List

The Channel Group list displays the list of channels groups. When you select a Channel Group in the list, its parameters are displayed in the Channel Group pane on the right.

The button  opens the Create Channels Group window in which you can create a new channel group that will be added to the list.

Channel Group Area

The Channel Group area displays the parameters of the channel group selected in the Channel Group list.

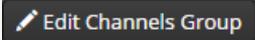
The Channel Group area includes the areas 3 and 4 in the illustration.

Parameter Icons

The Parameter Icons allow you to easily navigate in the channel group parameters. The channel group parameters are grouped in several sets of parameters.



Each icon corresponds to a set of parameters and allows users to jump to the corresponding parameter area:

Icon	Parameter Set	Description
	Details	The channel group details are defined and editable only in the Edit Channels Group window. From the Details area, the  button will open the Edit Channels Group window, and let you edit the channel group details. See section "Creating or Editing a Channels Group" on page 83.
	Renditions	In the Renditions parameters, you specify which renditions will be delivered, and where they will be reachable by the customer applications (deliveries). See section "Defining a Rendition Profile" on page 86.
	Production Groups	In the Production Group, you specify the productions or group of productions to which the channels can be associated. See section "Defining a Productions Group" on page 87.
	Affiliates	In the Affiliate, you can link affiliates to the channel group. This allows affiliates to receive media content from channels included in the channel group via the syndication mechanism.

Parameter Areas

The parameters related to a given aspect of the channel group configuration are grouped into a parameter area. You can access the requested parameter area from the parameter icons, or simply by scrolling the window.

See section "Parameter Icons" on page 82 for a short description of the parameters.

See section "Setting up Channel Groups" on page 81 and the section specific to each parameter type for detailed information on how to set the various parameters.

4.3.2. Creating or Editing a Channels Group

Introduction

The publication channels groups provide a way to differentiate and/or group publication channels. The differentiation can hold, for example, in different software platform through which the media will be distributed, or in different rights to access the media.

The channel group consists in a series of settings that specify the technical aspects of the media distribution.

Once the channels group has been created, it cannot be removed.

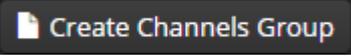
Prerequisites

Before you create your channel groups in C-Cast Administrator, you need to make sure that all the General and Distribution settings have been configured in the **Settings** window ("Setting up C-Cast Central" on page 7).

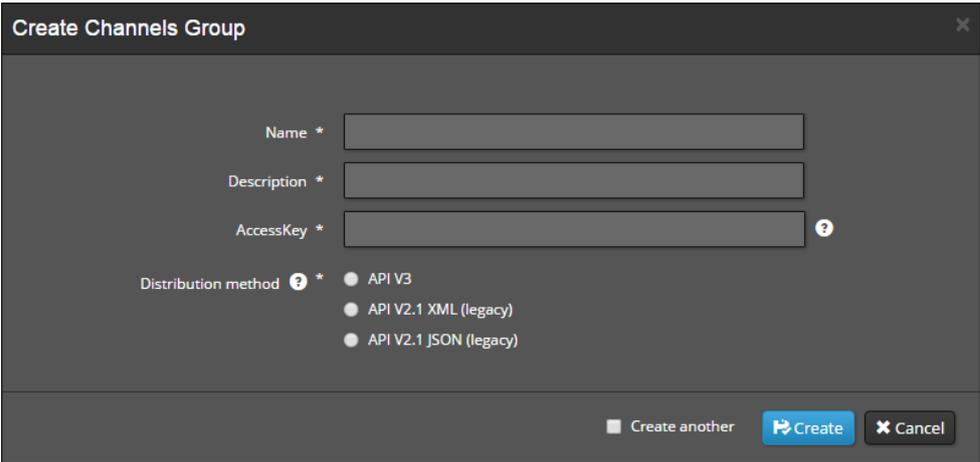
How to Create a New Channels Group

To create a new channel group, proceed as follows:

1. In C-Cast Administrator, select the **Distribution** menu.
The Distribution window opens.
2. In the Distribution window, select Channels Groups in the left pane.
The Channels Group pane opens in the Distribution window.

3. Click the icon .

The Create Channels Group window opens:



4. Type a name and description for the Channels Group in the corresponding fields.
The name does not have to be unique.
5. Type an access key.
The string you type will be used to generate the access key made up of a prefix (randomly assigned) followed by the string you have typed.
Once generated, the access key will not be editable.
6. Select **API V3** as distribution method to use this API version with the channel group.
Once the channel group is created, you can no longer change the distribution method.



NOTE

The values **API V2.1 XML** and **API V2.1 JSON** are only available on request for customers who still temporarily need a support for the old V2 API. This feature is already announced as deprecated. It should only be used for legacy applications.

You can select a single method per channel group. Should you need to use both formats, you would need to create two channels groups linked to the same channels.

7. Click **Update**.

A new Channels Group is available in the Channels Group list.

When you select it, the Channels Group parameters are displayed on the right.

In the Details area, you can see that the path to the .json publication channels API includes the generated access key.

How to Edit a Channels Group

To edit a channels group, proceed as follows:

1. In C-Cast Administrator, select the **Distribution** menu.

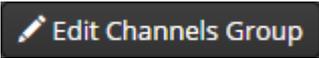
The Distribution window opens.

2. In the Distribution window, select **Channels Groups** in the left pane.

The Channels Group pane opens in the Distribution window.

3. Select the channels group you want to edit in the Channels Group list.

The parameters associated to the channels group are displayed in the Channels Group area on the right.

4. In the Channels Group area, click the icon .

The Create Channels Group window opens:

Edit Channels Group

Name * EUQualifiers iOS

Description * Channels for iOS delivery of EU qualifier matches

AccessKey * 26282119eu_ios ?

Distribution method * API V3

Update Cancel

5. Modify the name and/or description.

The access key and distribution methods are not modifiable.

6. Click **Update**.

The Channels group details have been updated.

4.3.3. Defining a Rendition Profile

Introduction

Defining a rendition profile consists in defining the following elements for the distribution:

- In which renditions the media content published through the channels group will be delivered. To this end, you select one or more **Renditions Profiles** predefined in the Settings window. The rendition profiles used by the Xsquare engine are not available in the distribution workflow.
- Where each rendition will be reachable by the customer application. To this end, you select one or more **Deliveries** per rendition profile. The deliveries have also been predefined in the Settings window.

Usually, you will have to define at least one rendition profile for the output file and one for the thumbnails.

Where to Define the Rendition Profile

You define the rendition profile for a given channels group via the Renditions parameters that you can reach as follows:

1. In the Distribution window, select **Channels Groups** on the left pane, and select the channels group for which you want to define a rendition profile in the Channels Group list in the central pane.

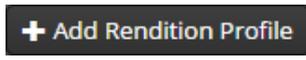
The Channels Group parameters appear in the Channels Group area on the right.

2. Click  to bring the focus on the Renditions area of the Channels Group area:



How to Define a Rendition Profile

To define a rendition profile, proceed as follows:

1. In the Renditions area of the selected channels group, click .

A table appears with a new row to define the rendition profile.

2. In the **Renditions** column, click the field and select a rendition from the list. You can limit the items listed by typing a text string to be included in the rendition name:

Renditions *	Deliveries *	Action
Click to select rendition		 
HLS for iOS		
THUMBS-S		



The selected rendition is added.

- In the **Deliveries** column, click the field and select a delivery from the list. You can limit the items listed by typing a text string to be included in the delivery name:

Renditions *	Deliveries *	Action
HLS for iOS	<input type="text" value="Click to select delivery:"/> DeliveryA	

The selected delivery is added:

Renditions *	Deliveries *	Action
HLS for iOS	<input type="text" value="Click to select delivery:"/> ✖ DeliveryA	

You can add other deliveries by selecting new ones from the field, and/or remove deliveries by selecting the cross in front of the delivery name.

- Click to save the record.

The rendition profile is added to your channels group. From now on, the new publication items published via the channels linked to the channels group will be published following the defined rendition profile.

When saving the record, a message warns you that the new rendition profile will not be applied to existing video assets included in existing publication items. In other words, video assets whose rendering process has been triggered will not be processed again based on the new rendition profile.



How to Remove a Rendition Profile

- In the Renditions area of your channels group, click in the row corresponding to the rendition profile you want to remove.

The rendition profile is directly removed.

4.3.4. Defining a Productions Group

Introduction

Defining a productions group consists in selecting the productions you will be able to link to the publication channels when you will configure them.

Where to Define a Productions Group

You define the productions group for a given channels group via the Productions Groups

parameters that you can reach as follows:

1. In the Distribution window, select Channels Groups on the left pane, and select the channels group for which you want to define a productions group in the Channels Group list in the central pane.

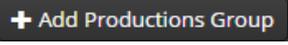
The Channels Group parameters appear in the Channels Group area on the right.

2. Click  to bring the focus on the Productions Groups area of the Channels Group area:



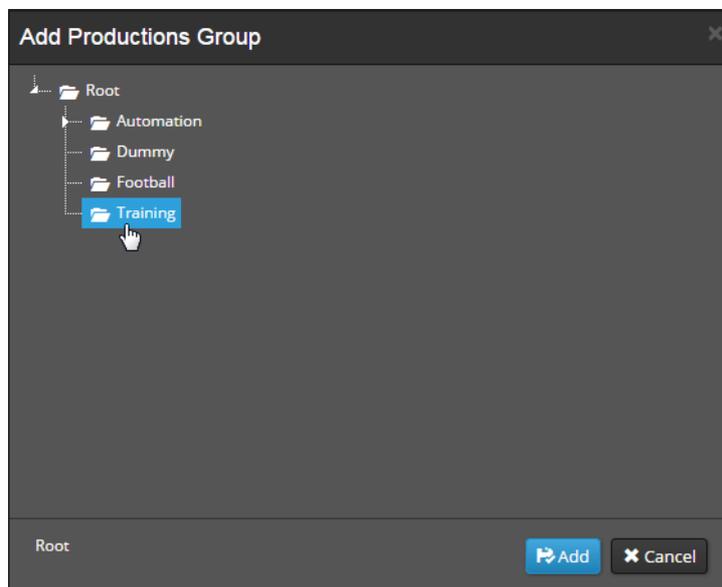
How to Define a Productions Group

To define a production group, proceed as follows:

1. In the Productions Group area of the selected channels group, click .

A window appears with the production tree.

2. In the production tree, select the production folder including the production(s) to be made available in the configuration of the publication channels linked to the channels group.



3. Click .

The name of the selected folder and its path are added in a row of a table.

4. Repeat step 3 for all production folders you want to add in the productions groups.



The productions included in the selected folder(s) and all sub-folders are available in the configuration of the publication channels once the publication channels have been linked to the channels group currently selected.

How to Remove a Productions Group

1. In the Productions Group area of the selected channels group, click  in the row corresponding to the production groups you want to remove.

A configuration message appears.

2. Click **OK** to confirm the deletion.

The productions group is removed.

4.3.5. Linking Affiliates to a Channel Group

Introduction

Once a syndicator has created an affiliate via the Affiliate Settings, the syndicator has to link the affiliate to one or more channels groups to allow the affiliate to receive media content from the channels included in the channel groups.

Where to Link Affiliates to a Channel Group

As a syndicator, you can link an affiliate to a given channel group via the Affiliates parameters in the Distribution menu reachable as follows:

1. In the Distribution window, select **Channels Groups** on the left pane, and select the channel group you want to link an affiliate to in the Channels Group list in the central pane.

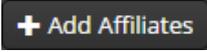
The Channels Group parameters appear in the Channels Group area on the right.

2. Click  to bring the focus on the Affiliates area of the Channels Group area.



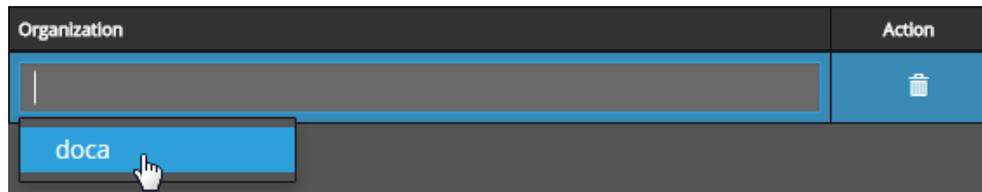
How to Link an Affiliate to a Channel Group

To link an affiliate in the syndicator's C-Cast Central, proceed as follows:

1. In the Affiliate area of the selected channels group, click .

A table appears with a new row to add the affiliate.

- In the **Organization** column, click the field and select an affiliate organization from the list. You can limit the items listed by typing a text string to be included in the organization name:



The selected affiliate organization is now linked to the channels group:

- In the syndicator's C-Cast Central, the channels included in the channel group are displayed in the Affiliates Details window available from the Affiliate settings in the Settings menu.
- In the affiliate's C-Cast Central, the channels included in the channel group are displayed in the Edit Syndicator window available from the Syndicator settings in the Settings menu.
- In the affiliate's C-Cast Central, the affiliate can add the channels from the channel group as syndicated channels when setting up a production.

How to Remove an Affiliate

- In the Affiliates area of your channels group, click  in the row corresponding to the affiliate you want to remove.

The affiliate is no longer linked to the channels group, with the following consequences:

- In the syndicator's C-Cast Central, the channels included in the channel group are strikethrough in the Affiliates Details window available from the Affiliate settings in the Settings menu.
- In the affiliate's C-Cast Central, the channels included in the channel group are strikethrough in the Edit Syndicator window available from the Syndicator settings in the Settings menu.
- In the affiliate's C-Cast Central, the channels from this channel group are no longer available as syndicated channels when setting up a production.



4.4. Setting up Channels

4.4.1. Channel Parameters

Channels Pane

Once you have selected **Channels** on the left of the Distribution window, the list of the already defined channels appear in a table similar to the following one:

Start Date	Name	Description	Shortcode	Action
10/06/2015 00:00:00	Goal		goal	[edit] [delete]
10/06/2015 00:00:00	Event		event	[edit] [delete]

The table contains the main settings from the **Create Channel** or **Edit Channel** windows, but not all of them.

Create/Edit Channel Window

You will create and edit publication channels in the Create Channel and Edit Channel windows accessible from the Channels pane.

See section "Managing Publication Channels" on page 96 for more information on how to add, edit or remove a channel.

This section details the settings of **Create/Edit Channel** window:

Edit Channel

Name *

Description

Shortcode *

Start Date * +02:00
Local time : Wed Jun 10 2015 00:00:00 GMT+0200 (Romance Daylight Time)

End Date * +02:00
Local time : Thu Jun 11 2015 00:00:00 GMT+0200 (Romance Daylight Time)

Channels Groups *
 iPad

Productions *
 Barcelona - Juventus

Criteria

Keywords *
 Goal

Field Description

Name

This is the name of the publication channel. It could be named based on the keywords and/or channel groups included in the publication channel.

Description

This field describes the publication channel. As it is available from the Channels pane, use this field to give users a quick access to the main information on the channel configuration, without requiring to open the publication channel.

Shortcode

This is the code used in the C-Cast database and in the publication API to refer to the publication channel for the distribution workflow.

A shortcode can only contain alphanumerical characters (a - z;0 - 9, as well as hyphen - and underscore _). Uppercases are converted to lowercase.

A shortcode cannot be longer than 20 characters, and cannot contain special characters such as o \, <, >, %, \$, *, #, '(espace), (,), ", [,], /, {, }, @.

The application will prevent you from using unsupported characters.

Start Date

This is the date from which the publication channel is active. This date is for information's sake, and is meant to inform customers that relevant content will be made available through the given publication channel in the timeframe between the start and end date.

End Date

This is the date up to which the publication channel is active. This date is for information's sake, and is meant to inform customers that relevant content will be made available through the given publication channel in the timeframe between the start and end date.

Channels Groups

The **Channels Groups** field allows users to select the channels groups through which the publication items (and linked video assets) associated to the channel will be published. You can select several channels groups.

If you select **iPad** as a channels group for the publication channel **Match DE-NL** dedicated to a given football match, all media content that will be published through the channel **Match DE-NL** will be processed and delivered as defined in the channels group **iPad**.

Productions

The **Productions** field allows users to select from which production(s) the media content



will be published through the publication channel. You can select several productions.

The productions available are restricted to the ones selected as you configured the above-specified channels group.

If you select the production **Match DE-NL** related to a given football match for the publication channel **Match DE-NL**, the media content that will be set to **Publish** in this production in the future will be published via the publication channel **Match DE-NL**.

Keywords

The **Keywords** field allows users to limit the publication items of the above-mentioned productions taken into account to be published via the publication channel. You can select several keywords.

If you select the **Goal** keywords for the publication channel **Goals**, and you have selected the productions **Match DE-NL**, **Match DE-IT**, **Match NL-PT**, only the publication items with the **Goal** keyword in the three specified productions will be published to the publication channel **Goals**.

If several keywords are specified, the publication items with at least one of the keywords specified are published via the publication channel.

4.4.2. Defining a New Channel

Introduction

The publication channel provides a way to group and filter publications items on various criteria to distribute them in a bundle to the viewers and/or partners.

Prerequisite(s)

Before you define a publication channel, you need to have properly configured the channels group you want to link to your publication channel.

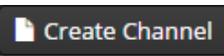
How to Define a New Channel

As you will define a new channel, you can refer to the section "Channel Parameters" on page 91 for a detailed description of the fields you will fill in.

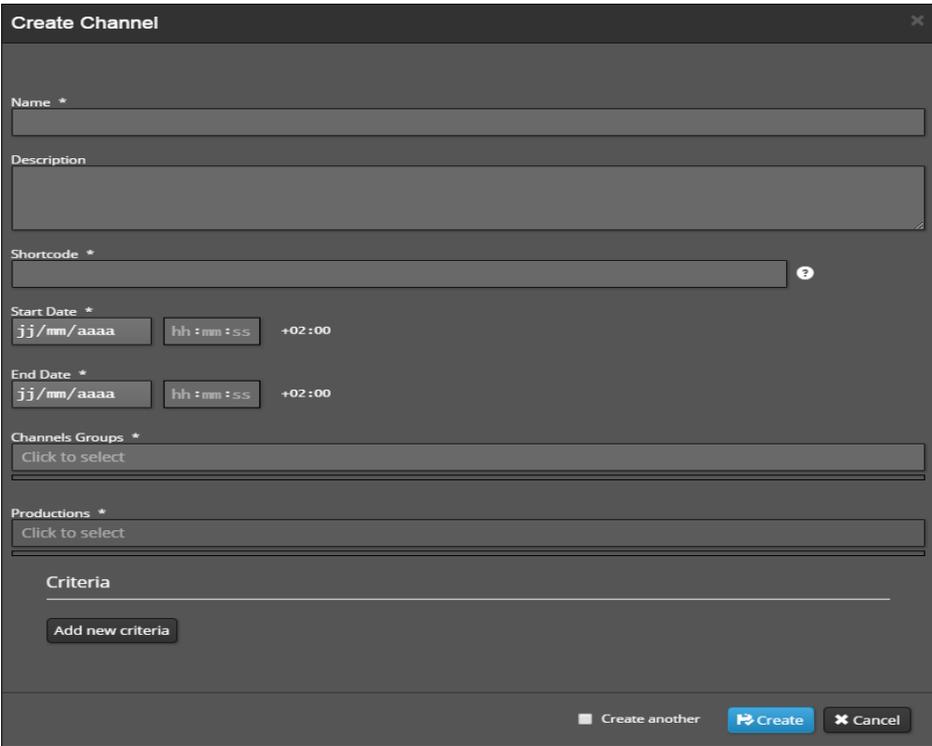
To define a new publication channel, proceed as follows:

1. In C-Cast Administrator, select **Distribution** in the toolbar, then select **Channels** in the left pane of the Distribution menu.

The Channels pane appears on the right with the list of existing channels.

2. Click  located at the top of the Channels pane.

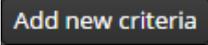
The Create Channel window opens:



The screenshot shows the "Create Channel" dialog box with the following fields and controls:

- Name ***: Text input field.
- Description**: Text area.
- Shortcode ***: Text input field with a help icon.
- Start Date ***: Date and time pickers (jj/mm/aaaa, hh:mm:ss, +02:00).
- End Date ***: Date and time pickers (jj/mm/aaaa, hh:mm:ss, +02:00).
- Channels Groups ***: Dropdown menu with "Click to select".
- Productions ***: Dropdown menu with "Click to select".
- Criteria**: Section with an "Add new criteria" button.
- Buttons**: "Create another", "Create", and "Cancel" at the bottom.



3. In the **Name** and **Description** fields, type respectively a name and description for the publication channel.
4. In the **Shortcode** field, type a shortcode for the publication channel.
A shortcode can only contain alphanumerical characters (a - z;0 - 9, as well as hyphen - and underscore _). Uppercases are converted to lowercase. A shortcode cannot be longer than 20 characters, and cannot contain special characters such as o \, <, >, %, \$, *, #, ', (espace), (,), ", [,], /, {, }, @. The application will prevent you from using unsupported characters.
5. In the **Start Date** and **End Date** fields, type the time frame during which media content will be published to the publication channel. This information is for information purpose.
6. Click the **Channels Groups** field and select one or more channels groups from the list.
The media content published through the publication channel will be published with the settings defined in the associated channel groups.
7. Click the **Productions** field and select one or more productions from the list.
The media content of the associated productions can be published via the publication channel in given conditions specified in the **Results** section below.
8. If you want to filter, based on keywords, the media content to be made available via the publication channel, do the following:
 - a. Click .
A Keyword field appears.
 - b. In the Keyword field, select the keyword that should be contained in the publication items for them to be published in the publication channel.
 - c. Repeat the steps **a** and **b** for all keywords you want to define as filter criteria.
9. Click  to save the defined publication channel.

Results

The publication items of the selected production(s) will effectively be published through this publication channel in the following conditions:

- They have been set to **Publish** in the C-Cast workflow.
- They include at least one video assets also set to **Publish**.
- They are not excluded due to the **Keywords** filter defined.

When you select several keywords as criteria, the publication items will be published through the channel if they include at least one of the selected keywords.

The publication items published through this publication channel will be published with the settings defined in the selected channels groups.

4.4.3. Managing Publication Channels

The publication channels can be managed from the Channels pane that appears when you select **Channels** on the left pane in the Distribution window.

How to Search for a Channel

When many channels are defined, you can search for a channel based on its name or shortcode, or part of it.

1. In the Channels pane in the Distribution window, enter the text you are searching for in

 and press **Enter**.

The list of channels is automatically updated to include only the channels whose name or shortcode include the string you have searched for.

To remove the filter, delete the text in the **Search** field and press **Enter**.

How to Edit a Channel

2. In the Channels pane in the Distribution window, click the **Edit** icon  in the row of the channel you want to edit.

The Edit Channel window is displayed.

3. Edit the field values and click **Update**.

The channel configuration has been modified as requested.

How to Delete a Single Channel

1. In the Channels pane in the Distribution window, click the **Delete** icon  in the row of the channel you want to delete.

A dialog box asking for confirmation is displayed.

2. Click the **Delete** button in the dialog box.

The channel is deleted from the list.

How to Delete Several Channels

1. In the Channels pane in the Distribution window, select the check boxes in front of channels you want to remove.

The check box in front of the row is selected, and the row is highlighted in blue.

2. Click the **Delete** button on the top of the Channels list.

A dialog box asking for confirmation is displayed.

3. Click the **Delete** button in the dialog box.

The channels are deleted from the list.

5. Monitoring Transfers

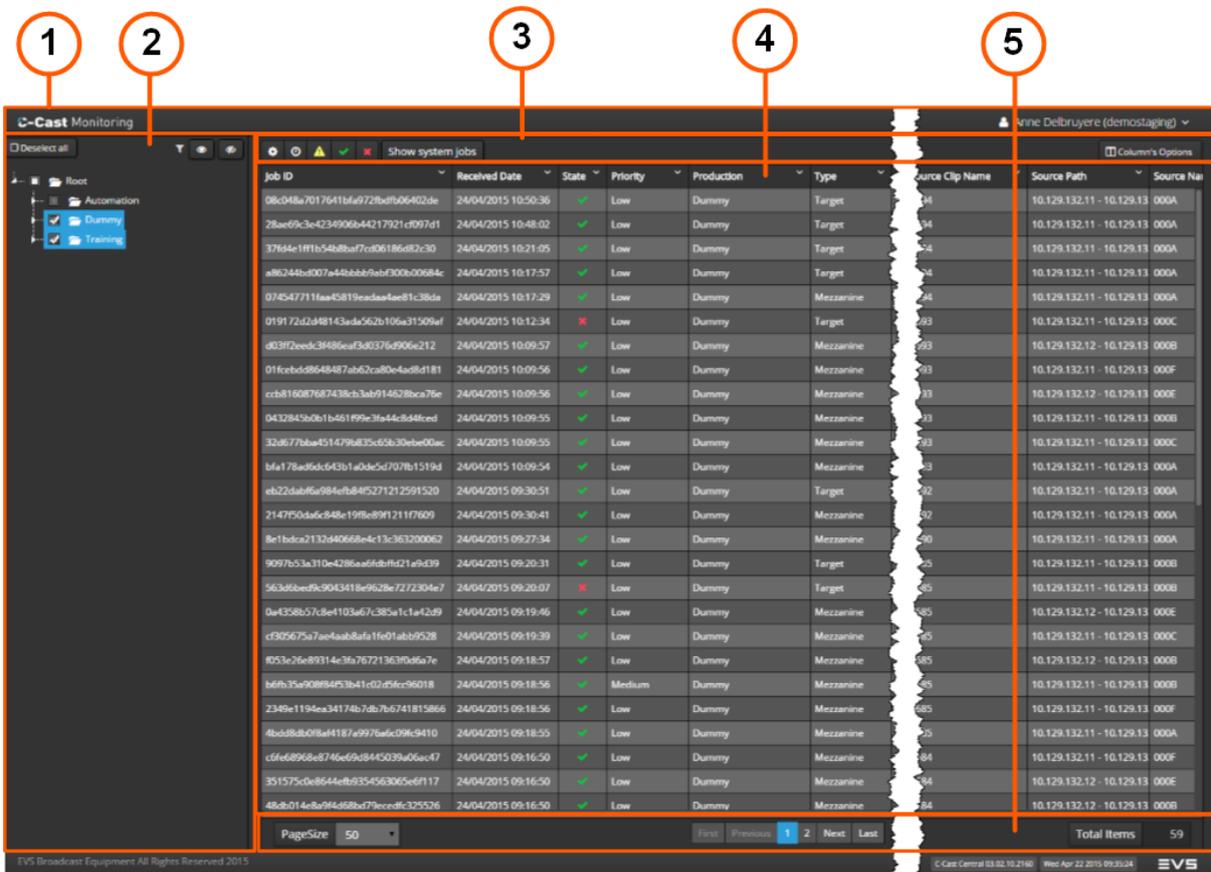
5.1. Overview of the Monitoring Window

Introduction

To open the Monitoring window from the main C-Cast Administrator window, select the **Monitoring** menu in the toolbar.

From the Monitoring window, you can monitor all transfers from C-Cast Agents to contribution destinations.

The Monitoring window contains the areas highlighted on the screenshot below:



The Monitoring window is made up of the following areas, which are described in details below:

Part	Area Name
1.	Title bar
2.	Production tree
3.	Filter and Display options
4.	Monitoring grid
5.	Navigation buttons

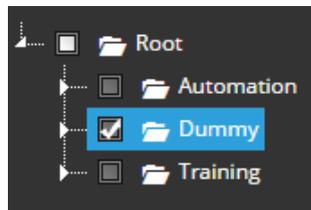
Title Bar (1)

The Title bar gives access, via the Name menu on the right, to your profile settings, and allows you to log out.

Production Tree (2)

The left window pane corresponds to the production tree. It features an expandable tree structure listing all the productions (visible or hidden).

In the Production tree, click the check boxes corresponding to the productions you want to monitor. When a production is selected, it appears on a blue background:



From this pane, the following commands are available:

Button	Select this button to ...
	deselect all the productions selected in the tree view. To select all productions, select the Root element.
	filter the productions displayed in the tree view: <ul style="list-style-type: none"> When the left button is selected, only visible productions are displayed in the tree. When the right button is selected, only hidden productions are displayed in the tree. When both buttons are selected or no button is selected, all productions are displayed. The tree folders are always displayed even if they do not contain a production for which the filter is active.



Filter and Display Options (3)

The filter options, on the left, allow you to filter the monitored transfers based on their status, and to hide the system jobs:

Button	Select this button to ...
	display the transfer jobs in progress.
	display the transfer jobs scheduled.
	display the transfer jobs failed.
	display the transfer jobs successful.
	display the transfer jobs canceled.
Show system jobs	display the system jobs.

See section "Filtering Monitoring Information" on page 100 for more information on how to filter the monitored information.

The Display options are accessible through the **Column's Options** button. It opens the list of all fields you can display in the result grid. In the list, By selecting the eye icon in the **Visibility** column, you can display or hide the corresponding column in the result grid.

See section "Adapting the Monitoring Grid Display" on page 100

Monitoring Grid (4)

It shows the transfers performed by C-Cast Agent in the selected productions.

The results are filtered based on the filter options.

The results are displayed as specified in the display options.

Navigation Buttons (5)

The Navigation buttons allow you to navigate in the result pages:

Button	Description
	Drop-down field to select the number of items to be displayed on a page.
	Buttons to jump to the first, previous, next, last or specific page (1, 2, etc.).
	Field that displays the total number of items returned with the filters applied.

5.2. Filtering Monitoring Information

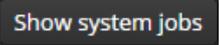
Prerequisite

To access the Monitoring window from the main C-Cast Administrator window, select the **Monitoring** menu in the toolbar. This opens the Monitoring window in a separate tab of your browser.

How to Filter Monitoring Information

All the elements you can select to filter the monitoring information are displayed on a blue background once they are selected.

You can activate one or more of the following options to filter the monitoring information:

- (Compulsory) Select the production(s) you want to monitor in the Production tree on the left.
- (Optional) You can select the status of the transfers you want to monitor at the top of the Monitoring grid via the Status buttons .
- (Optional) You can select  to show the system jobs (thumbwall or video extraction for C-Cast Publisher).

5.3. Adapting the Monitoring Grid Display

Introduction

You can modify the information displayed in the monitoring grid, and the way it is displayed:

- [Display or hide columns](#)
- [Change the column position](#)
- [Sort the monitoring information](#)

How to Hide one Column

1. In the Monitoring grid, click the down arrow next to the column heading:

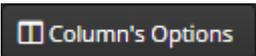


This displays commands you can apply on the columns:



2. Select the **Hide Column** command.

How to Display or Hide Columns

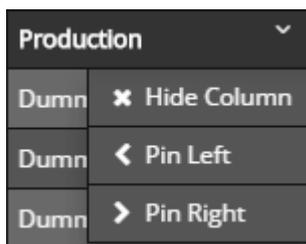
1. In the Monitoring grid, click  **Column's Options**.
The Column's Options window opens. It lists all the columns that can be displayed in the grid
2. Do one of the following:
 - To display an hidden column, click  next to the requested column.
 - To hide a displayed column, click  next to the requested column.
3. When you have selected the display or hide option for the requested columns, click **Update** to validate the changes and come back to the Monitoring window where the grid display has been updated.

How to Change the Column Position

1. In the Monitoring grid, click the down arrow next to the column heading:



This displays commands you can apply on the columns.



2. Select one of the following commands:
 - **Pin Left** to move the column one position to the left
 - **Pin Right** to move the column one position to the right
3. Repeat step 2 until the column has the requested position.
4. Repeat steps 1 to 3 for all columns you want to move.

How to Sort the Monitoring Information

You can sort the monitoring information based on the **Received Date**, **State** or **Priority** as follows:

- In the Monitoring grid, click the heading of the columns on which you want to sort the jobs.



Glossary

A

affiliate

An affiliate is C-Cast Central that receives media from another C-Cast Central. The C-Cast Central that sends the media content to the affiliate is called the syndicator. The affiliate receives the media content via a subscription to one or more channel groups of the syndicator.

C

CDN

Abbreviation standing for Content Delivery Network. A CDN is a large distributed system of servers deployed in multiple data centers across the Internet. The goal of a CDN is to serve content to end-users with high availability and high performance. (Source: Wikipedia)

contribute (to)

Transfer and exchange of audio and video content by broadcasters prior to distribution

contribution target

Group of physical destinations the user can decide to send content to in a contribution workflow.

current publication item

Publication item selected in the production timeline. This definition applies to the C-Cast Publisher.

D

distribution target

Group of physical destinations the user can decide to send content to in a distribution workflow.

G

gang

Group of recorders. In C-Cast, a recorder can be part of several gangs.

K

keyword type

Way to group keywords in categories. It allows defining how to handle the keyword (ex. replacing by an icon, to be translated, etc.).

M

mezzanine file

Video file generated in a high resolution format and used as the reference file to create all final outputs.

P

preview files

Video file created usually in a low resolution format for the purpose of preview and browsing in the C-Cast Publisher.

production

Specific: Collection of publication items produced at the same time, for a specific event and venue, on the same broadcast setup, with the same configuration. General: Production setup, or way to organize operations.

production code

A 16-character code, unique for each production, used for the configuration of the C-Cast Agent. From a security point of view, its like a login and a password all in one.

production group

Logical hierarchy of productions.

production site

Location where a part of the C-Cast distributed platform will be deployed.

publication channel

Editorial selection of publications items grouped and/or filtered on various criterias, that are distributed in a bundle to the viewers or partners. This may be an ongoing sport event (e.g. A soccer game would be published in one channel), or a topic based collection such as all publications relating to one player, city, type of actions (e.g. goals), etc.

publication channel group

Way to differentiate and/or group publication channels. This might be needed for various reasons: - technical reason: same publication channels but different renditions (ex: iOS vs. Android devices) - content access rights: different publication channels with different publication items (ex: free vs. premium content; host broadcaster vs. partner content).

publication item

Element created during the production that features a single incident, and includes all its metadata and related video assets. Such an incident could be an action (e.g. goal) or an external event (e.g. statistic).

publication timeline

List of publication items organized chronologically and related to a given production that the Publisher user has to process for publication to the end-user application.

**publication type**

Description of the publication item content and its metadata profile. There are only two evs-specific publication types: evs:multicam, evs:monocam. Several custom publication types, based on the needs, can be configured in C-Cast Central Administration, such as statistics, advertisements, weather information, etc.

R**recorder profile**

List of recorders used as template on productions.

rendition

Physical resource (with a given format, codec and wrapper) that includes the media content defined in a video asset. Different renditions are required to cover the variety of usage.

rendition profile

Settings defining the rendition in C-Cast Central Administration, such as codec, wrapper, resolution, bitrate, location, DRM, etc.

S**stream**

Single live stream and all its metadata and related video assets.

syndicated channel

publication channel that a syndicator has decided to share with an affiliate. To share a publication channel with an affiliate, the syndicator has to link the affiliate to a channel group including this channel. To get media content from a syndicated channel, the affiliate has to include the syndicated channel in a production.

syndicator

C-Cast Central that transfers media to another C-Cast Central which has subscribed to receive media from given channel groups. The C-Cast Central that receives the media content is called the affiliate.

T**target**

Group of physical destinations where a user can decide to send content.

transfer files

Video file created in a high resolution format for the purpose of transferred to other destinations and post-processed in the C-Cast workflow.

V**video asset**

Logical entity that contains a media part of the publication item (ex. thumb asset or video asset). It is characterized, among others, by a source, an IN point, an OUT point. It does not contain any formatting information. For example, each camera of a multicamera publication item is a video asset.

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