Platform
User's manual

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1 Overview

This manual describes how to use the Web Signage digital signage server platform. More information is available at the Web Signage web site.

1.1 Login

To start working with the Web Signage management environment you need an Internet connection and a browser. We suggest to use Internet Explorer 5.5 or later.

When you subscribe the service, we will supply your a application code. The typical platform address will have the http://[**your-application-code**].websignage.eu form.
The actual address may change, in some cases and in agreement with the DNS service provider,it can be completely customized.

The first page at the platform address asks for the user's security credentials:

After entering your username and password, if the account is acknowledged, you will be redirected to the application environment.
The menu is tailored for your role and all unnecessary or unauthorized functions are removed.

Selecting the Change password box, if allowed, you can change your password.

1.2 Start

The Web Signage environment follows the structure of many Windows applications. According with the supplied credentials, the user interface is tailored for the user's role as specified by the system administrator. The interface has a vertical menu bar on the left side. By clicking on the icons the requested functionality is loaded on the right.

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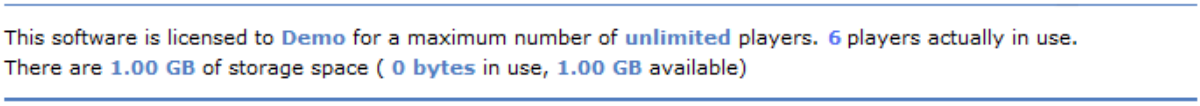
The figure displays the start page (start button), containing a summary and the operational status of the players available, according to the current operator's role.

Functions for the following basic operations are available for every user from the Main menu:

1. Go to the start page (**Start**);
2. **Log off**;
3. Change the **Password** for the current user;
4. Change the **Display** options such as color scheme, screen sizing mode and the number of records per page.

At the bottom of the start page are shown the licensing information and the available storage space.



1.3 Environment

Web Signage has a multi-user and multi-role environment. This means that many user can work at the same time, using only the functions allowed by their own role.

Hierarchy

The organizational structure within Web Signage has the following hierarchical structure:

Areas > Is the topmost level and contains the Services. An area can be used to represent an organization.

Services > The Services within an area can be used to represent a division.

Users > Every user belongs to a Service

The hierarchy defines platform's basic behaviour:

- Every user belongs to one service which belongs to one area only.
- A user can see the data of others as allowed by his privileges and his membership to a service or a area.
- Higher privileges allow to access to all data within the user service or area or to all data of all areas (all data of all users)
- Every area can be used to represent a virtual organization, potentially invisible to other ones and

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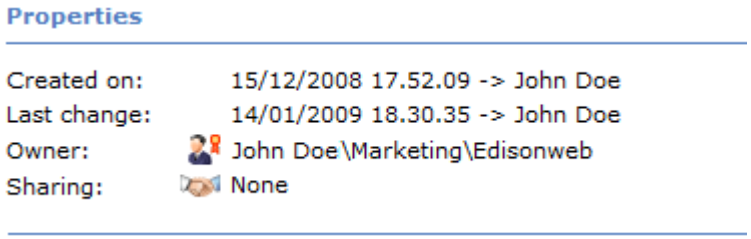
containing isolated divisions and users.

Record properties
As we saw, you can isolate the application usage context in several organizations and units.
This applies to every record managed by Web Signage. All objects (player, clips, schedules, etc.) can be isolated following the same criteria and share the following features:

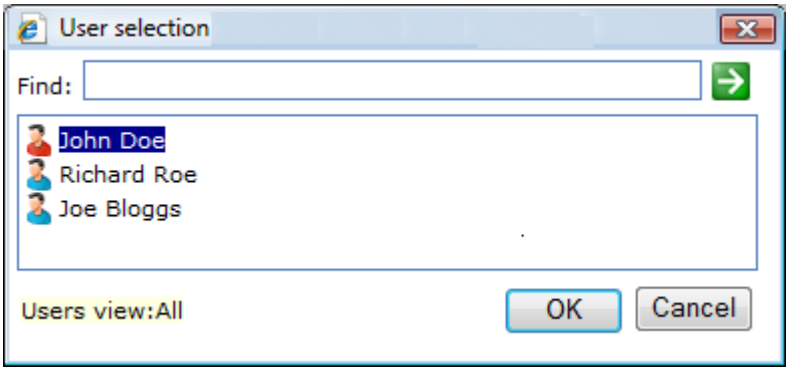
- A record can be created, retrieved, updated and deleted and every single activity is secured by specific user privileges defined within user roles.
- Every record belongs to the user that created it. The creator is the *owner.*
- The user as full privileges on his own records.
- The record ownership can be transferred to another user only by the owner (*Assignment*).
- A record can be shared with one or more users or groups even giving them additional privileges.
- A record can be shared with or assigned to operators within the current user's scope, as specified by the User view option of the User management interfaces.

On every page, when a record is selected, the main properties are shown:



1. **Created on:** date and time of creation followed by the creator user name
2. **Last change:** date,time and user name of last save
3. **Owner:** shows the name/service/area of the record's owner. The owner can change, delete, share or reassign it to other users.
4. **Sharing:** shows the users with whom you shared the record.

To change the owner of a record, click on the icon. A popup window will show a list of all users within the current user's scope, as specified by the User view option of the User management interfaces. Select an user and click on OK. The previous owner will lose all privileges which will pass to the new one.



To change a **sharing** click on the icon. Select one or more user, service or area from the popup window. Only the visible users are shown.

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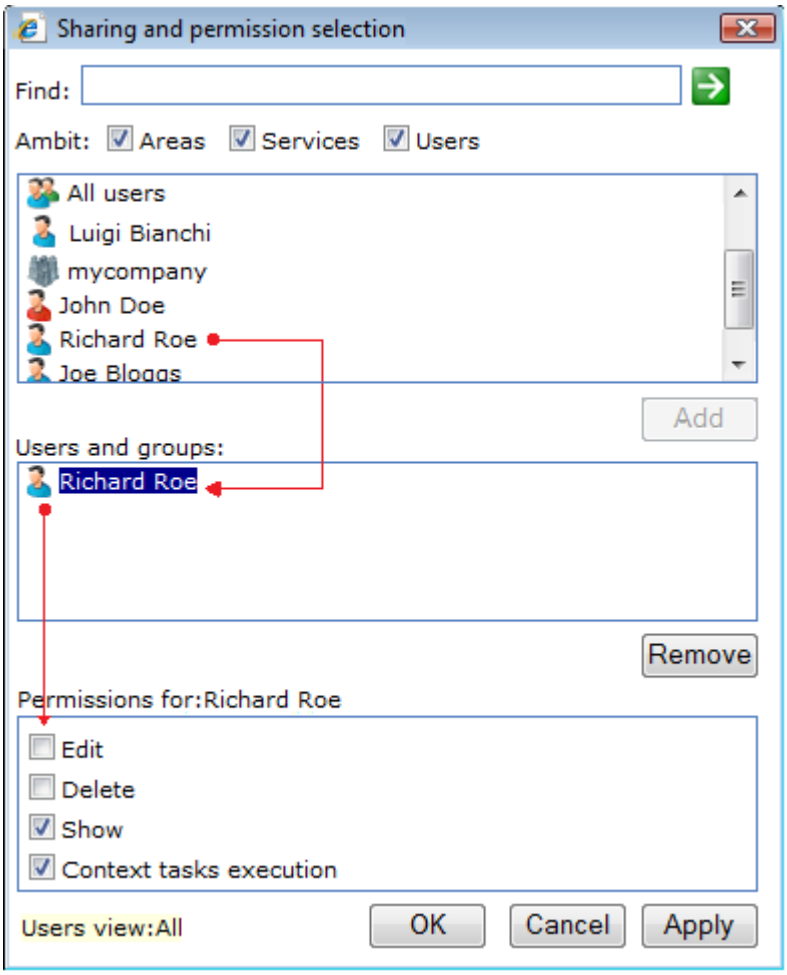

After adding the user or the context in which to assign privileges, you can define the permissions on the record, selecting various options.

It is important to note that you can decide to assign and share the records with individuals, departments, areas, or all of them, as specified on the *User view* property of the User detail:

- User view set to None
  you cannot share or change the ownership of your records
- User view set to Service
  you can share or change the ownership of your records only with users belonging to your service
- User view set to Area
  you can share or change the ownership of your records only with users belonging to your area
- User view set to All
  you can share or change the ownership of your records with any user of the platform

Record privileges
The creation, change and deletion of records as well as the visibility of specific kinds of objects (players, clips, schedules etc.) are secured by specific privileges. The set of privileges granted to a user is defined with user roles.

For every kind of records it is possible to grant the following record privileges:

- **New**
  Enables the *New* button on summary and on details pages, leaving the user free to add new records.
- **Edit**
  Enables the *Edit* button on summary pages, leaving the user free to open detail pages and change the visible records.

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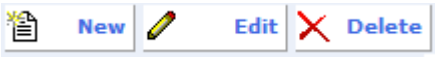
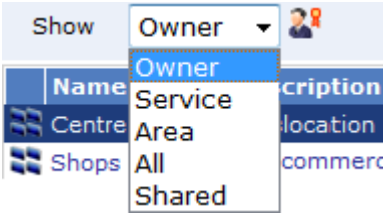
- **Delete**
  Enables the *Delete* button on summary and on details pages, leaving the user free to delete the visible records.



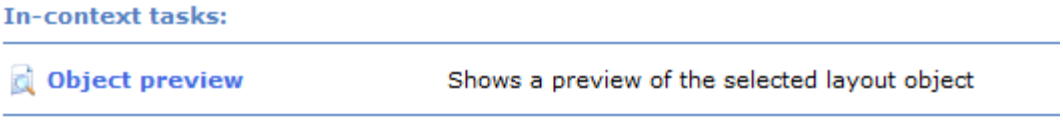
For every kind of records it is possible to grant the following display privileges:
- **Service**
  All records owned by users belonging to your service are shown
- **Area**
  All records owned by users belonging to your area are shown
- **All**
  All records are shown
- **Shared**
  All records shared by other users are shown. The additional privileges for record change, deletion and in-context task availability are grant by the record owner.

Enabling these option will cause add a related option to the Show combo box of the summary pages.



Note that the **Shared** option is always present and the sharing privileges have priority over the user role privileges.

In-context tasks:
All described privileges are common to all kinds or records. Some objects have additional in-context tasks, right under the properties list.
The function of the task is strictly related to the record type and are shown only if enabled on the user's role.
The in-context tasks can be of two types:
- General tasks, always visible within the record list and used to work on the whole record set.
- Context sensitive tasks, visible only if a record is selected and used to act on it.



To start an in-context task, click on its icon or name.

1.4 Technical support

Web Signage has a built-in error analysis and notification system. All errors occurred while using the platform are automatically notified to the technical support. The modular structure of Web Signage isolates the error to a single functionality, leaving the user free to continue to use all other functions.

If an error occurs, a detailed technical report is generated automatically and sent to the technical support. The analysis centre immediately starts to investigate on issue for a fast resolution.

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All bug fixes will be applied transparently by the technical support on the data center infrastructure, without interfering with your work or requiring any kind of setup.

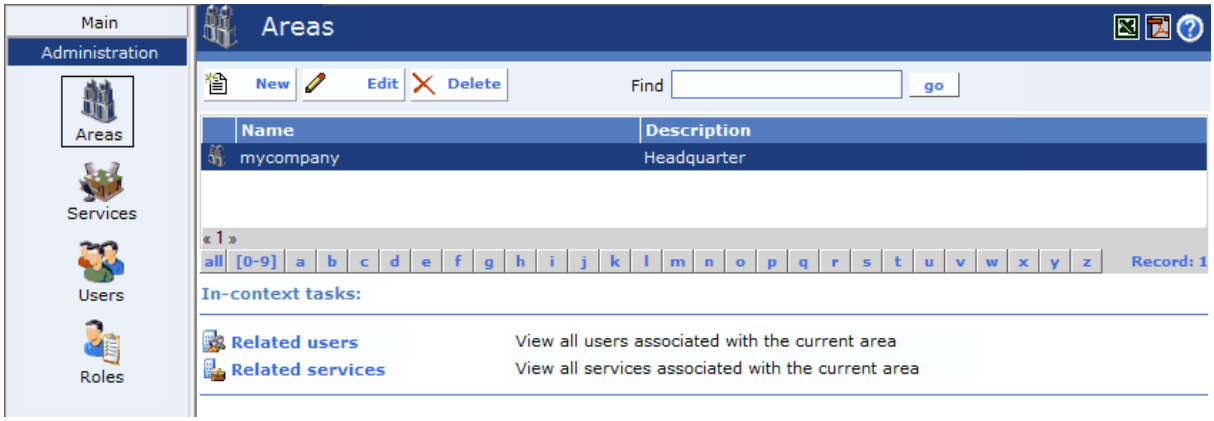
The described processes are managed within a UNI EN ISO 9001:2000 compliant quality system, as certified by Perry Johnson Registrars, Inc for all software application development and related evolutive maintenance and service supply processes of Edisonweb.

2 Administration

The administration and configuration of the multi-user and multi-role environment is delegated to the system administrator. The environment is based on a hierarchical organizational structure, with functional areas at top, from which depend on the services containing the users. Each operator will then be associated with a service belonging to an area. Moreover, each user will be associated with one or more roles, which determine the access privileges to the various features of the software.

2.1 Areas

The functional areas are group of services within the organization.



It is possible to create, retrieve, update and delete an area. Moreover, using the in-context tasks it is possible to display the lists of all **users** and **services** related to the selected area.

1. To **create** a new area, click on the **New** button and fill the detail page shown.
2. To **update** an existing area, select the desired area from the list and click on the **Edit** button. An editable detail page is shown.
3. To **delete** an area, select the desired area from the list and click on the **Delete** button.

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Note: you can only delete empty an area. If a service belongs to the selected area, the deletion is not possible. You have to remove all services belonging to the area first.

The following functions are provided to help you select and search the records:

Find: Performs a search, looking for the text in the box within the record fields. The search is started after pressing the **go** button.

Alphabetic buttons
All: All records are shown
[0-9]: Only the records with the value of the first column starting with a number are shown.
[a,b...]: Only the records with the value of the first column starting with the selected letter are shown.
Paging: Using the **<<** (previous page) and **>>** (next page) it is possible to scroll through the pages if they exceed the maximum number of records displayed in single page.

Area details

The detail page for the selected object contains the record fields, the in-context tasks and the scroll buttons.
The record list available is shaped by the selections and filters applied to the summary. The active filters are shown below the title, at the right of the icon.

The **Name** field is required, as well as all fields marked with an * (asterisk).
The **Description** field is optional.

At the lower bottom of the page, the following buttons are available:
1. **Cancel:** goes back to the summary leaving the record unchanged.
2. **New:** clears all fields and prepares for a new record creation.
3. **Save**: This button is enabled only if there is unsaved data. Clicking on it the data is saved and a label showing the last change date and time is shown.
4. **Delete:** upon confirmation, this button deletes the current record. The record will not be deleted if associated to other objects.
5. **Scroll to first (<<)** and **to last record (>>)**
6. **Scroll to previous record (<)** or **next record (>)**
7. At the right of the buttons is shown the number of the current record along with the total number of records (**record no./record total**).

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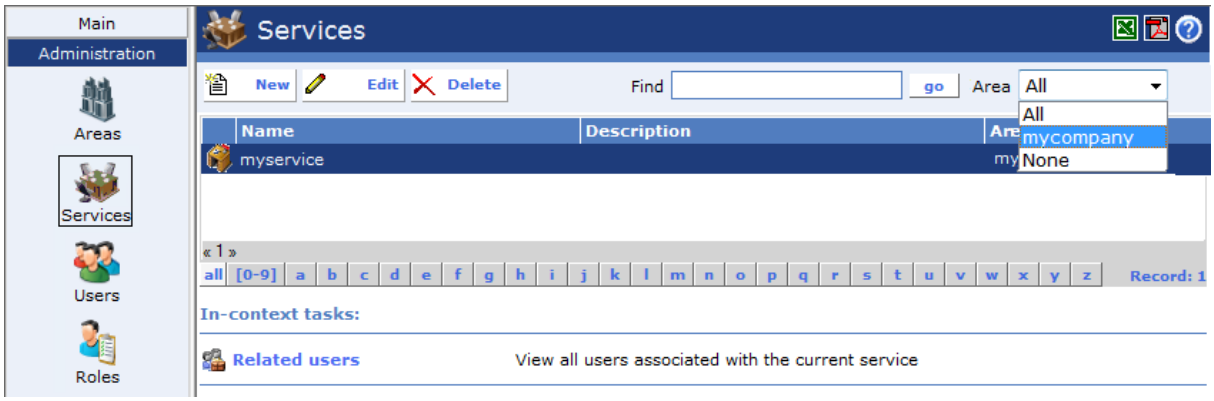
2.2 Services

A service, that can be part of a bigger area, contains system users. Every user accessing to the platform is related to only one service.



It is possible to create, retrieve, update and delete a service. Moreover, using the in-context tasks it is possible to display the lists of all **users** related to the selected service.

1. To **create** a new record, click on the **New** button and fill the detail page shown.
2. To **update** an existing record, select the desired record from the list and click on the **Edit** button. An editable detail page is shown.
3. To **delete** a record, select the desired record from the list and click on the **Delete** button.

Note: If a user is associated to the selected service the deletion is not possible. You have to remove all relationships first.

The following functions are provided to help you select and search the records:

Find: Performs a search, looking for the text in the box within the record fields. The search is started after pressing the **go** button.
Area: Is a drop down list containing the list of all areas and the options *All* and *None.* You can use it to filter the list showing all records (All), all records not belonging to an area (None) and all records belonging to a specific area.

Alphabetic buttons
All: All records are shown
[0-9]: Only the records with the value of the first column starting with a number are shown.
[a,b...]: Only the records with the value of the first column starting with the selected letter are shown.
Paging: Using the **<<** (previous page) and **>>** (next page) it is possible to scroll through the pages if they exceed the maximum number of records displayed in single page.

Service details

The detail page for the selected object contains the record fields, the in-context tasks and the scroll buttons.
The record list available is shaped by the selections and filters applied to the summary. The active filters are shown below the title, at the right of the icon.

The **Name** field is required, as well as all fields marked with an * (asterisk).
The **Area** drop down list is used to put a service within a specific area. The option *None (default)* is used for services not belonging to any area.
The **Description** field is optional.

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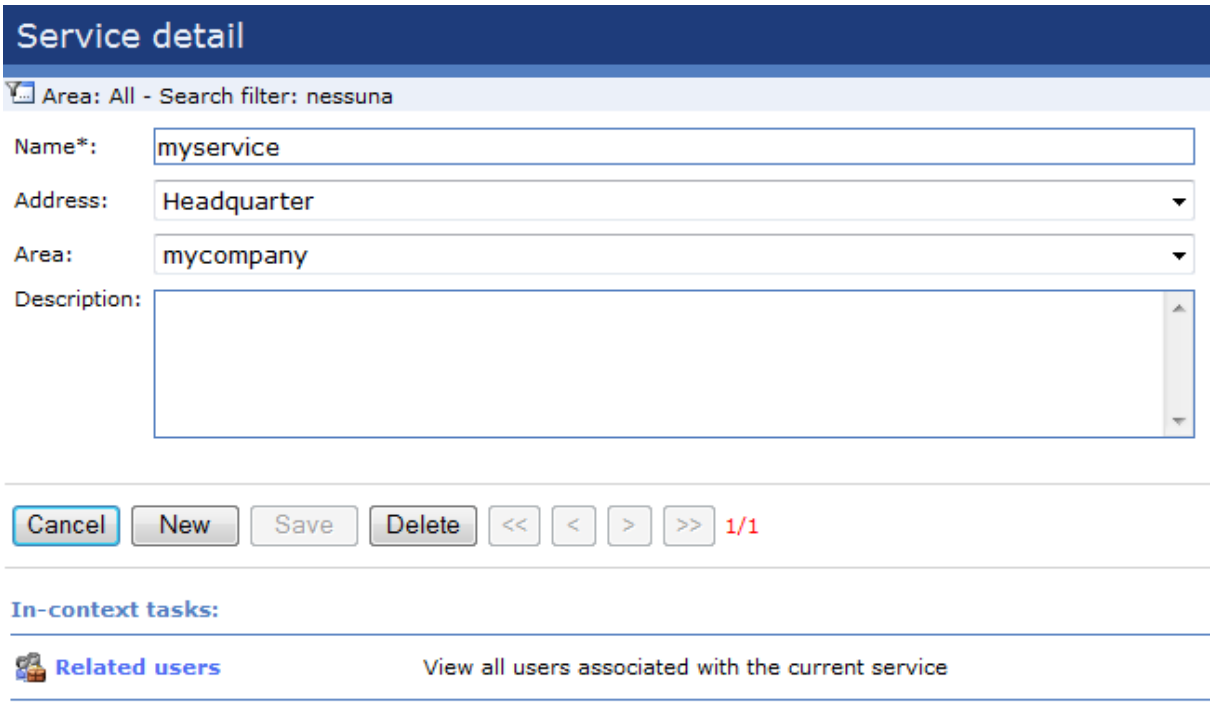

At the lower bottom of the page, the following buttons are available:

1. **Cancel:** goes back to the summary leaving the record unchanged.
2. **New:** clears all fields and prepares for a new record creation.
3. **Save**: This button is enabled only if there is unsaved data. Clicking on it the data is saved and a label showing the last change date and time is shown.
4. **Delete:** upon confirmation, this button deletes the current record. The record will not be deleted if associated to other objects.
5. **Scroll to first (<<)** and **to last record (>>)**
6. **Scroll to previous record (<)** or **next record (>)**
7. At the right of the buttons is shown the number of the current record along with the total number of records (**record no./record total**).

2.3 Users

The users management, like all others administration functions, is visible to system administrators only. With the Users management it is possible to create a new user within a service and store all data needed for system access like name, e-mail address, username and password.

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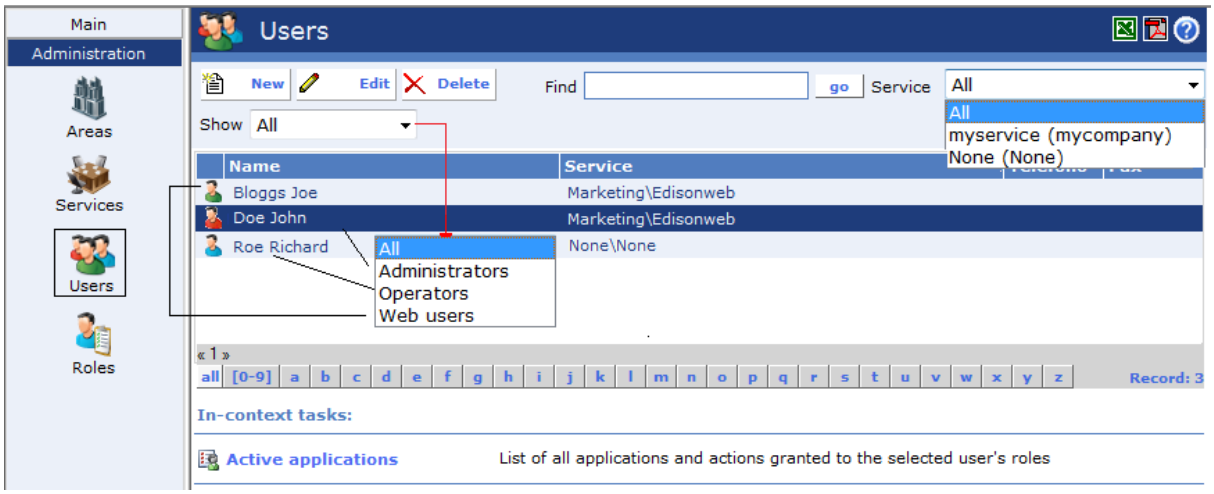

It is possible to create, retrieve, update and delete a service. Moreover, using the in-context tasks it is possible to display the lists of all **users** related to the selected service.

1. To **create** a new record, click on the **New** button and fill the detail page shown.
2. To **update** an existing record, select the desired record from the list and click on the **Edit** button. An editable detail page is shown.
3. To **delete** a record, select the desired record from the list and click on the **Delete** button.

Note: If a user is associated to the selected service the deletion is not possible. You have to remove all relationships first.

The following functions are provided to help you select and search the records:

Find: Performs a search, looking for the text in the box within the record fields. The search is started after pressing the **go** button.
Service: Is a drop down list containing the list of all services and the related area (between brackets) and the option *All.* You can use it to filter the list showing all records (All) or all records belonging to a specific service.
Show: Is a drop down list containing the list of all user types and the option *All.* You can use it to filter the list showing all users (All) or a specific type of users.

Alphabetic buttons
All: All records are shown
[0-9]: Only the records with the value of the first column starting with a number are shown.
[a,b...]: Only the records with the value of the first column starting with the selected letter are shown.
Paging: Using the **<<** (previous page) and **>>** (next page) it is possible to scroll through the pages if they exceed the maximum number of records displayed in single page.

User details

The detail page for the selected object contains the record fields, the in-context tasks and the scroll buttons.
The record list available is shaped by the selections and filters applied to the summary. The active filters are shown below the title, at the right of the icon.

The **Service** field is required and it defines the service the user belongs to.
Other required fields are **Name, Surname, Email**.

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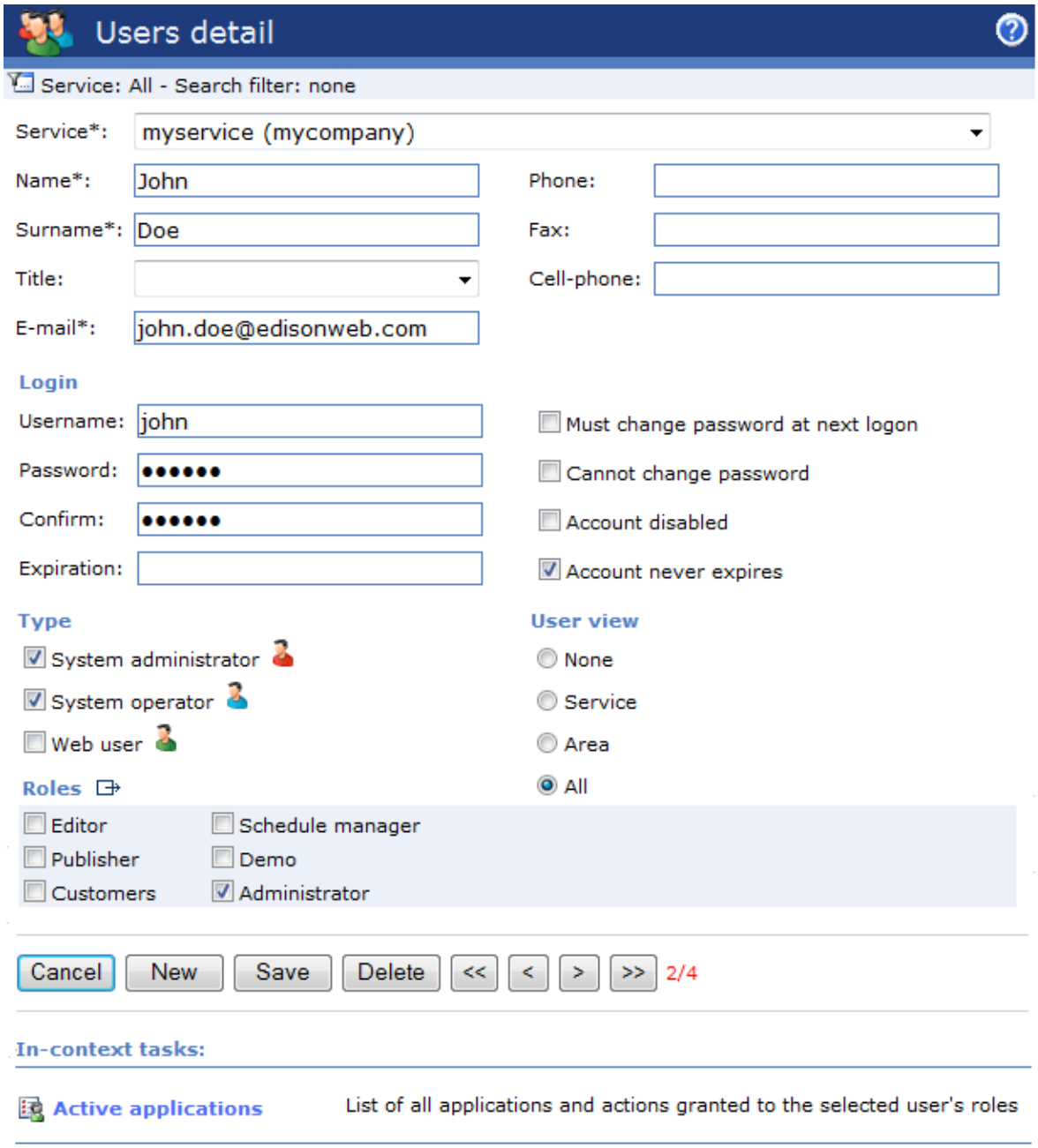

Login
This section contains the username and password used for login. The username must be unique. It is possible to define an account expiration date and the following properties:

1. **Must change password at next logon**: improves the account security with a forced password change at next login;
2. **Cannot change password**: User cannot change his password;
3. **Account disabled**: the user account is cannot be used to log on the system;
4. **Account never expires**: bypasses the account expiration date.

Type
Every user can be of one or more types:

1. **System administrator**: User has access to the administrative functions (Areas, Services, Users and Roles)
2. **System operator**: User can log on the system and use all functions granted by its role. The administrative functions are unavailable if the previous box is not checked.

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3. **Web user**: User can log on an external areas like web services with restricted access.

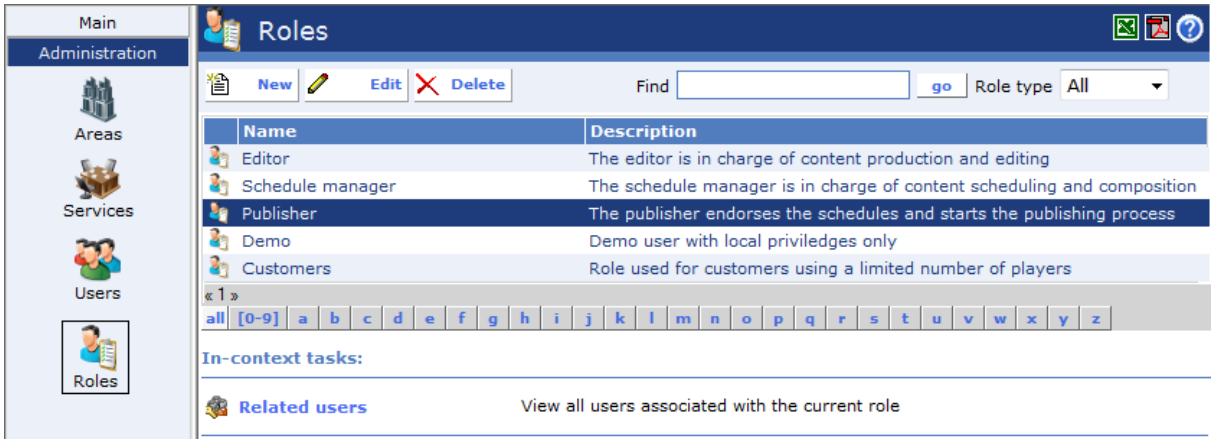
User view
The user view defines the users available for record sharing and reassignment (user's scope):
1. **None**: User cannot see the others.This means that he may not assign or share any resources;
2. **Service**: User can only see the users belonging to his service;
3. **Area**: User can only see the users belonging to his area;
4. **All**: All users are visible.

Roles
The roles define the authorization levels and the allowed functionalities .
Selecting a role you grant the set of privileges defined in the role itself. If more than one role is selected, the related privileges will overlap.

At the lower bottom of the page, the following buttons are available:
1. **Cancel:** goes back to the summary leaving the record unchanged.
2. **New:** clears all fields and prepares for a new record creation.
3. **Save**: This button is enabled only if there is unsaved data. Clicking on it the data is saved and a label showing the last change date and time is shown.
4. **Delete:** upon confirmation, this button deletes the current record. The record will not be deleted if associated to other objects.
5. **Scroll to first (<<)** and **to last record (>>)**
6. **Scroll to previous record (<)** or **next record (>)**
7. At the right of the buttons is shown the number of the current record along with the total number of records (**record no./record total**).

2.4 Roles

La gestione dei ruoli consente di personalizzare liberamente i profili di accesso a Web Signage per gli utenti, attraverso la mappatura con le singole funzionalità dell'applicazione. Analogamente alla gestione utenti, tale funzionalità è una facoltà riservata esclusivamente all'amministratore del sistema.



It is possible to create, retrieve, update and delete a role. Moreover, using the in-context tasks it is possible to display the lists of all **users** related to the selected role.

1. To **create** a new record, click on the **New** button and fill the detail page shown.
2. To **update** an existing record, select the desired record from the list and click on the **Edit** button. An editable detail page is shown.
3. To **delete** a record, select the desired record from the list and click on the **Delete** button.

Note: If a user is associated to the selected role the deletion is not possible. You have to remove all

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relationships first.

The following functions are provided to help you select and search the records:

Find: Performs a search, looking for the text in the box within the record fields. The search is started after pressing the **go** button.
Role type: Is a drop down list containing the two role types (User roles created by users and System roles, built-in and unchangeable) and the option *All.* You can use it to filter the list showing all roles (All) or a specific type of role.

Alphabetic buttons
All: All records are shown
[0-9]: Only the records with the value of the first column starting with a number are shown.
[a,b...]: Only the records with the value of the first column starting with the selected letter are shown.
Paging: Using the **<<** (previous page) and **>>** (next page) it is possible to scroll through the pages if they exceed the maximum number of records displayed in single page.

Role details

The detail page for the selected object contains the record fields, the in-context tasks and the scroll buttons.
The record list available is shaped by the selections and filters applied to the summary. The active filters are shown below the title, at the right of the icon.

The **Name** field is required, as well as all fields marked with an * (asterisk).

Task assignments map
The task assignment map allows to define the role granting system functions. Functions are grouped homogenously in the same order in which they appear in the menu bar.
Only checked functions will be available to that role and the user interface will be modeled accordingly. As you can see, this allows a detailed customization of privileges and security policies, while offering great flexibility for managing tasks and workflows within any type of organization.

Clicking on each function on the right side will appear a legend showing the related group and application.

In the example below, we have that the role allows access to the **Video Clip** application within the **Video** group (video content management and scheduling).

The role grants additional privileges of the **Video Clip** application:
- the ability to view records created and owned by the current user and by all other current users (regardless of his area and service)
- the ability to create, edit and delete records
- the ability to use in-context tasks

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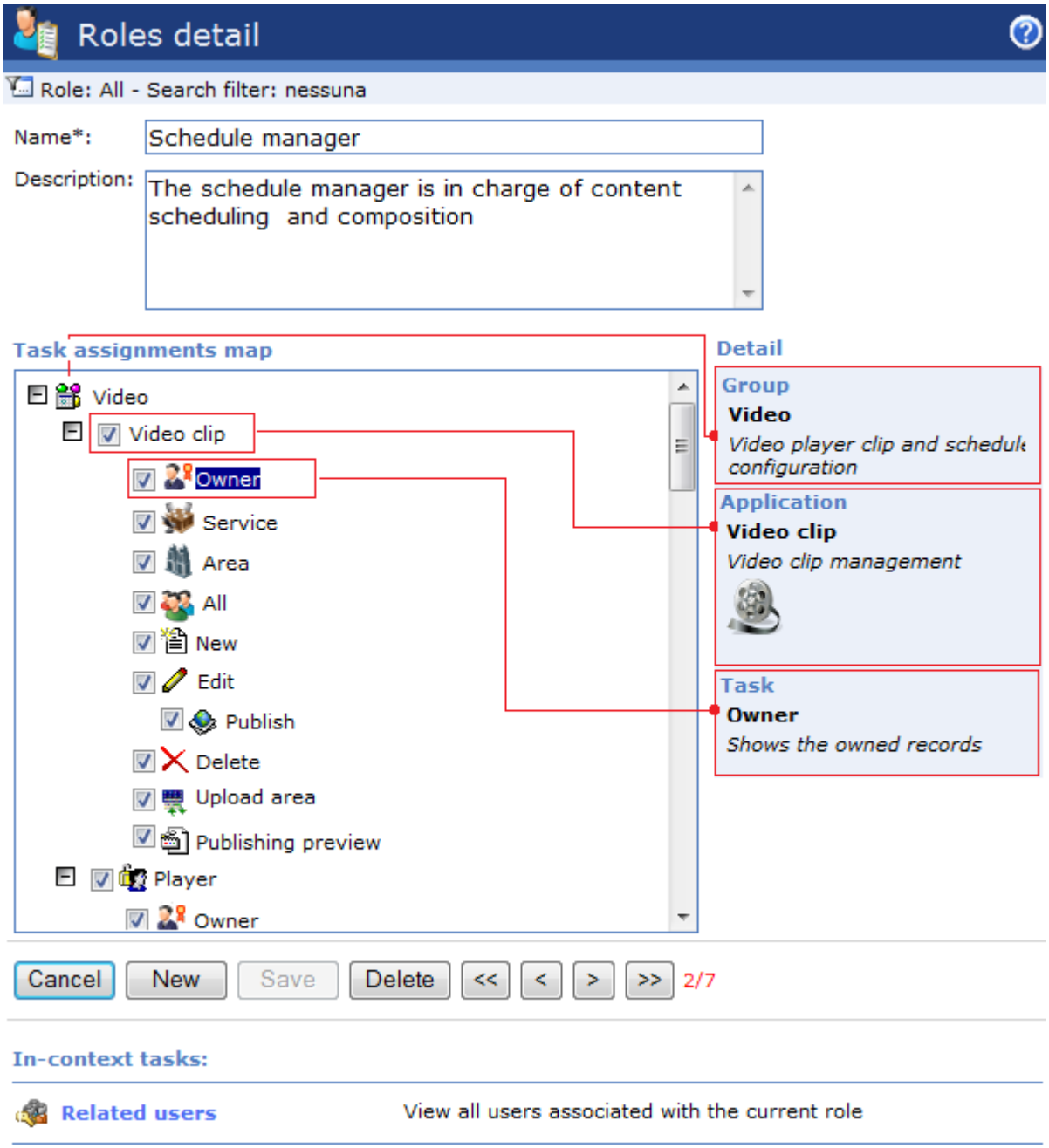
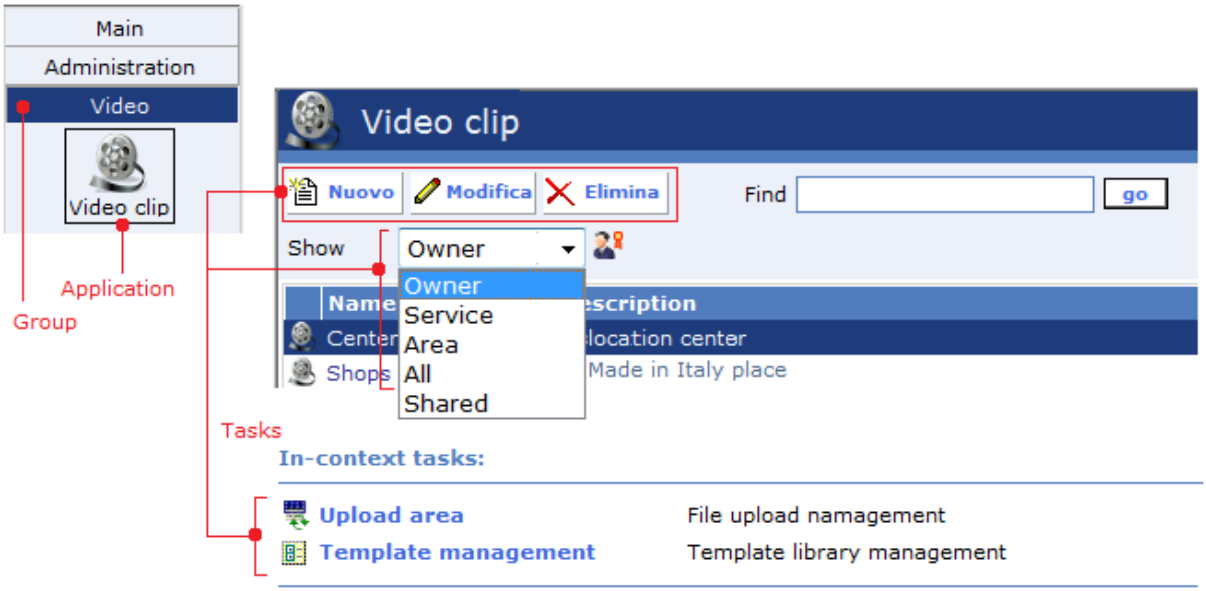


The example map above will shape the interface of the user with the specified role as follows:



At the lower bottom of the page, the following buttons are available:

1. **Cancel:** goes back to the summary leaving the record unchanged.
2. **New:** clears all fields and prepares for a new record creation.
3. **Save**: This button is enabled only if there is unsaved data. Clicking on it the data is saved and a label showing the last change date and time is shown.
4. **Delete:** upon confirmation, this button deletes the current record. The record will not be deleted if associated to other objects.
5. **Scroll to first (<<)** and **to last record (>>)**
6. **Scroll to previous record (<)** or **next record (>)**
7. At the right of the buttons is shown the number of the current record along with the total number of records (**record no./record total**).

3 Video

The management of a network of display involves all activities needed to control video players, create contents and schedule the playlist.
Also, a customer database associated with the clips is often needed to for billing purposes.

3.1 Groups

Groups are sets of players used to simplify the scheduling processes for involving sets of players sharing a common characteristic.

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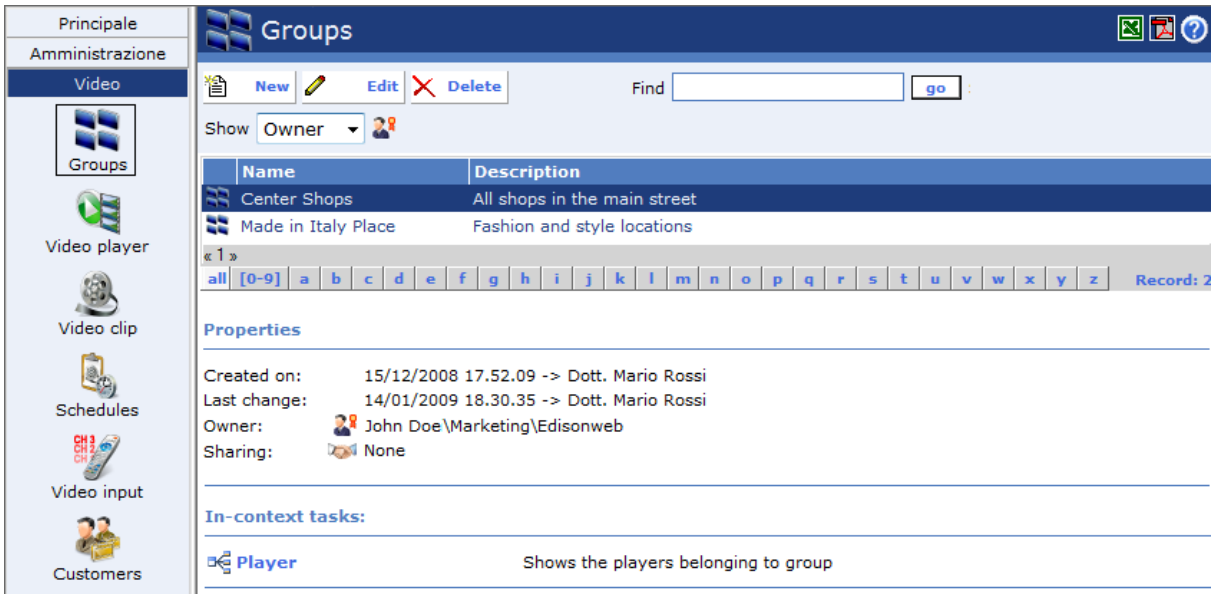

It is possible to create, retrieve, update and delete a group. Moreover, using the in-context tasks it is possible to display the lists of all **players** belonging to the selected group.

1. To **create** a new record, click on the **New** button and fill the detail page shown.
2. To **update** an existing record, select the desired record from the list and click on the **Edit** button. An editable detail page is shown.
3. To **delete** a record, select the desired record from the list and click on the **Delete** button.

Note: If a player is associated to the selected group the deletion is not possible. You have to remove all relationships first.

The following functions are provided to help you select and search the records:

Find: Performs a search, looking for the text in the box within the record fields. The search is started after pressing the **go** button.

Alphabetic buttons
All: All records are shown
[0-9]: Only the records with the value of the first column starting with a number are shown.
[a,b...]: Only the records with the value of the first column starting with the selected letter are shown.
Paging: Using the **<<** (previous page) and **>>** (next page) it is possible to scroll through the pages if they exceed the maximum number of records displayed in single page..

Display filter
The options available in the **Show** combo box change following the privileges grant by the user roles. The **Shared** option is always visible, the other available options are:
1. **Owner:** All records owned by the current user are shown.
2. **Service**: All records owned by users belonging to current user's service are shown
3. **Area**: All records owned by users belonging to current user's area are shown
4. **All**: All records are shown
5. **Shared**: All records shared by other users are shown. The additional privileges for record change, deletion and in-context task availability are grant by the record owner.

Group details
The detail page for the selected object contains the record fields, the in-context tasks and the scroll buttons.
The record list available is shaped by the selections and filters applied to the summary. The active filters are shown below the title, at the right of the icon.

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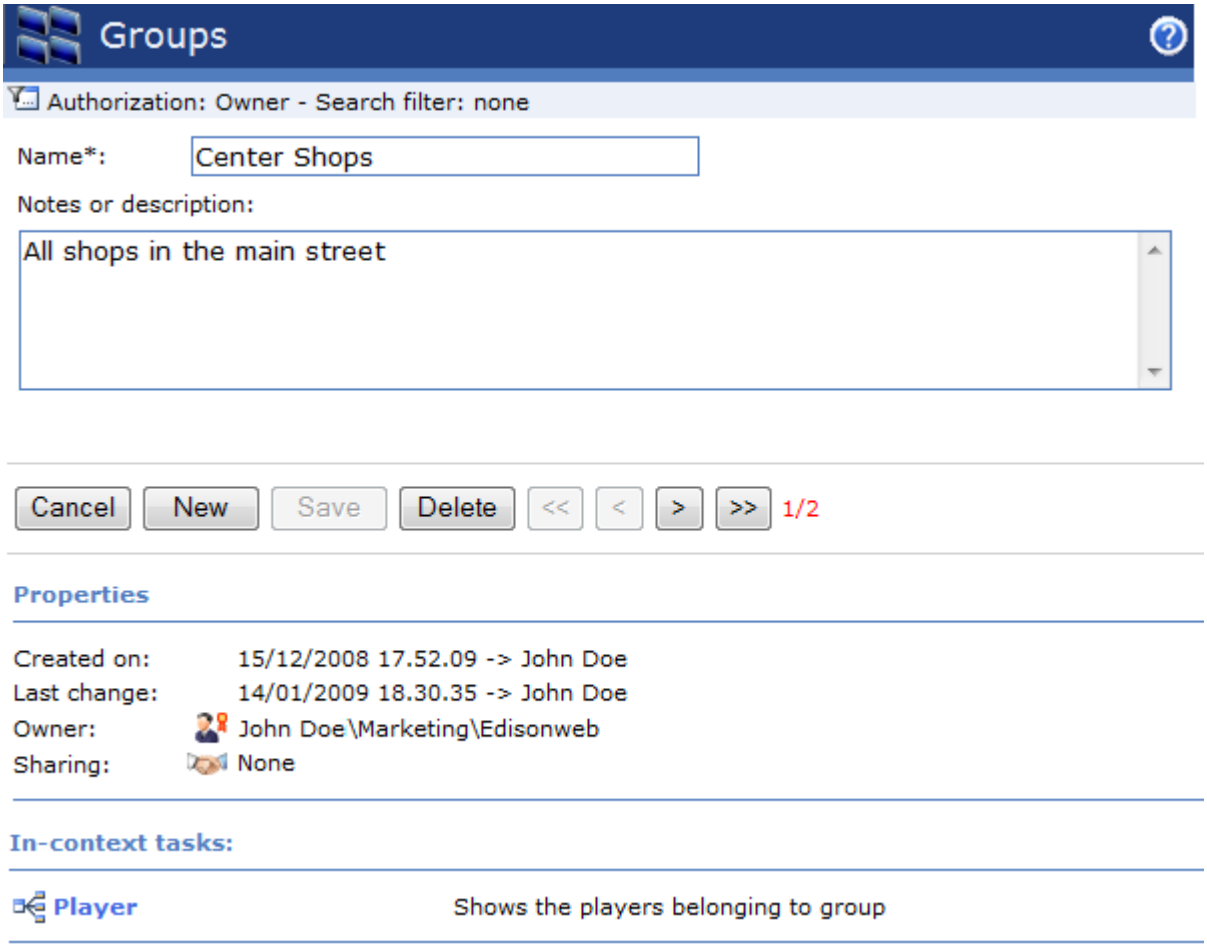
The **Name** field is required, as well as all fields marked with an * (asterisk).
The **Notes or description** field is optional.



At the lower bottom of the page, the following buttons are available:

1. **Cancel:** goes back to the summary leaving the record unchanged.
2. **New:** clears all fields and prepares for a new record creation.
3. **Save**: This button is enabled only if there is unsaved data. Clicking on it the data is saved and a label showing the last change date and time is shown.
4. **Delete:** upon confirmation, this button deletes the current record. The record will not be deleted if associated to other objects.
5. **Scroll to first (<<)** and **to last record (>>)**
6. **Scroll to previous record (<)** or **next record (>)**
7. At the right of the buttons is shown the number of the current record along with the total number of records (**record no./record total**).

3.2 Video player

The players are remote devices, connected to a monitor/TV screen or with an integrated display, playing content (clips) produced, managed and broadcast through the Web Signage platform. Every player belongs to a group, a logic set of player. It is possible to register, display and change the player settings using the platform.
The player configuration must be done **after** the its registration on the Web Signage platform.

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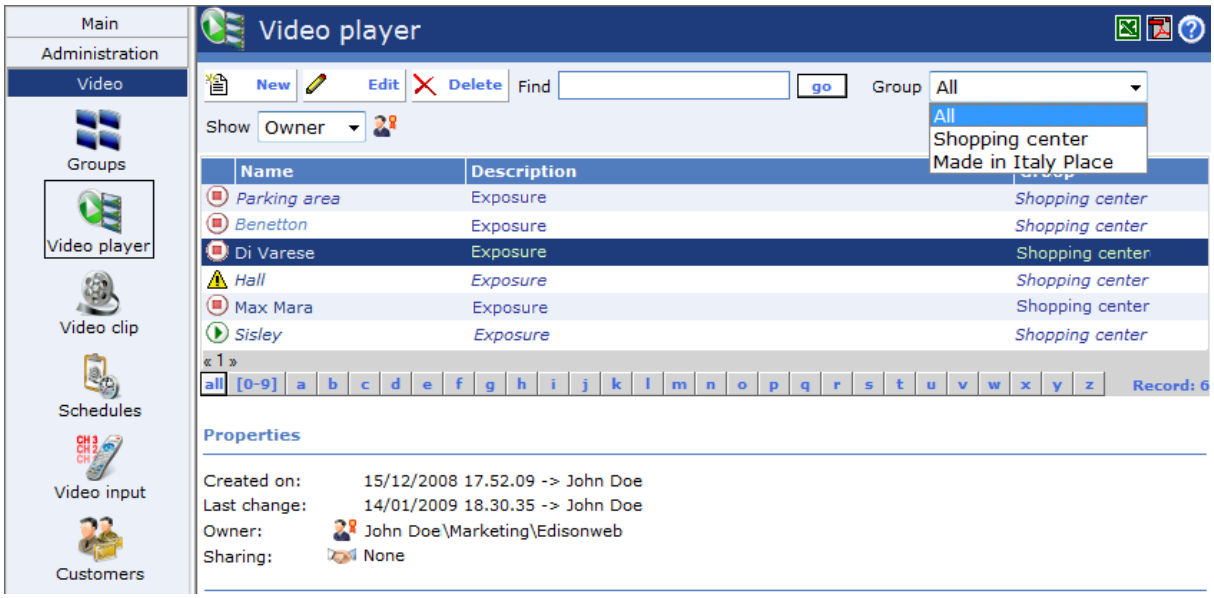

It is possible to create, retrieve, update and delete a player.

1. To **create** a new record, click on the **New** button and fill the detail page shown.
2. To **update** an existing record, select the desired record from the list and click on the **Edit** button. An editable detail page is shown.
3. To **delete** a record, select the desired record from the list and click on the **Delete** button.

The following functions are provided to help you select and search the records:
Find: Performs a search, looking for the text in the box within the record fields. The search is started after pressing the **go** button.
Group: Is a drop down list containing the list of all groups and the option *All.* You can use it to filter the list showing all records (All) or all records belonging to a specific group.

Alphabetic buttons
All: All records are shown
[0-9]: Only the records with the value of the first column starting with a number are shown.
[a,b...]: Only the records with the value of the first column starting with the selected letter are shown.
Paging: Using the **<<** (previous page) and **>>** (next page) it is possible to scroll through the pages if they exceed the maximum number of records displayed in single page..

Display filter
The options available in the **Show** combo box change following the privileges grant by the user roles. The **Shared** option is always visible, the other available options are:
1. **Owner:** All records owned by the current user are shown.
2. **Service**: All records owned by users belonging to current user's service are shown
3. **Area**: All records owned by users belonging to current user's area are shown
4. **All**: All records are shown
5. **Shared**: All records shared by other users are shown. The additional privileges for record change, deletion and in-context task availability are grant by the record owner.

Meaning of the icons shown in the player list
As well as in the start page, there are four icons used to display the player status:
Indicates that the player is active, meaning that a connection has been established with the platform within the update interval set in the detail page.
Indicates that the player is not connected, meaning that a connection has not been established with the platform within the update interval set in the detail page.
Indicates that the player is not activated yet or that has been disabled.
Indicates that the player is on stand-by as programmed.

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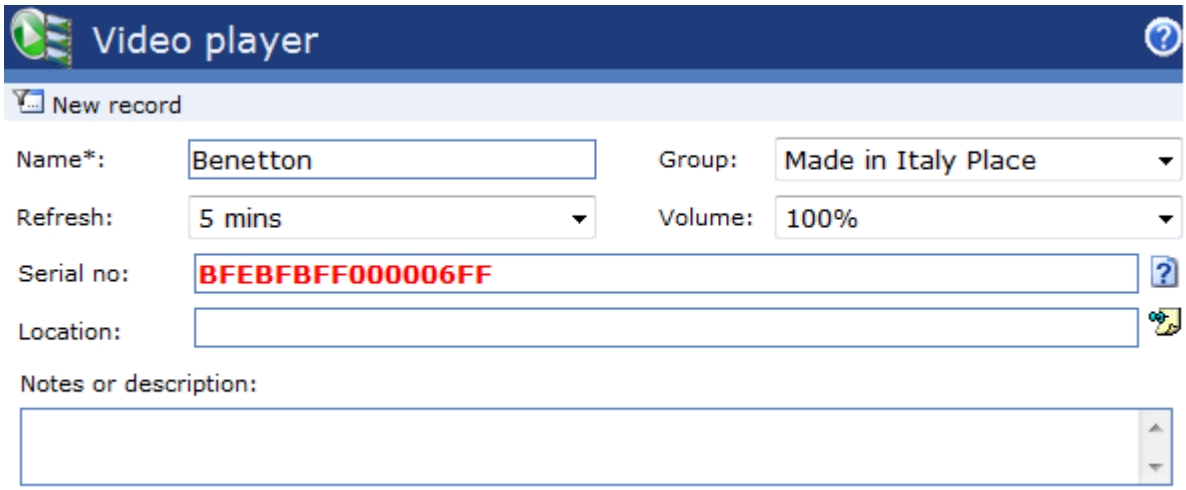
Note: A player with the name shown in italics indicates that its configuration has been changed and not published yet.

Player details

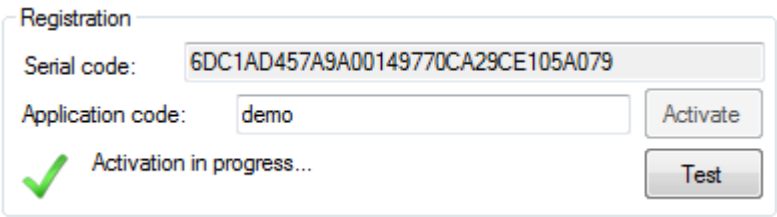
The detail page for the selected object contains the record fields, the in-context tasks and the scroll buttons.
The record list available is shaped by the selections and filters applied to the summary. The active filters are shown below the title, at the right of the icon.

The **Name** field is required and is used to identify the Bluetooth sender during a connection with a mobile device (Windows XP only).
The **Notes or description** field is optional..
The **Group** list box is used to set the group the player belongs to. In order to create a player at least one group is required.
The **Refresh** list box is used to set the refresh interval used by the player while checking for schedule or content changes. The update interval spans from 5 minutes to 24 hours.
The **Volume** list box is used to set the audio volume of the clip soundtrack. The volume spans from 0% (disabled) to 100% (the clip's design volume).



Player registration

The **Serial Code** field is used to enable the player with the auto-generated code bound to hardware where it is run. The serial code must be copied from the player configuration window and pasted here. To complete the player registration you need to save and publish the settings of the player.



As a simpler alternative, start the Player registration wizard on the player machine and let it do all work (it even creates the player group if needed).

Location

Among the fields that describe the player, there is the possibility to define its geographical location. The location is found using an interactive map where you can search by city and address, or simply clicking with the mouse on the map.
Define the location of the player is useful when a player has features that will depend on its geographical context, such as weather and local news or when a geo-marketing criteria is applied to

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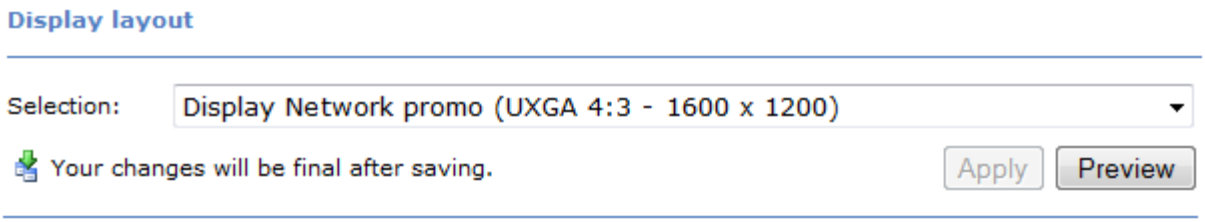
the content distribution logic.

Display layout
It is possible to configure for each player the presence of fixed information elements, not related to the the area (Stage) used to execute the scheduled content. These elements are called respectively and Ticker Widget. The ticker is associated with a standard RSS feed, from which reads and displays the title fields in sequence using one of several graphic effects available (slide, pop, etc).
A widget is a dynamic flash application which can display, for example, the current time, information on weather forecasts, a queueing system, etc.
Several predefined widgets are available and it is possible to develop and upload custom tickers and widgets linked to external data sources for dynamic information display. In addition to these items, it is possible to define for each layout a background image or texture, and set various display and object positioning properties.

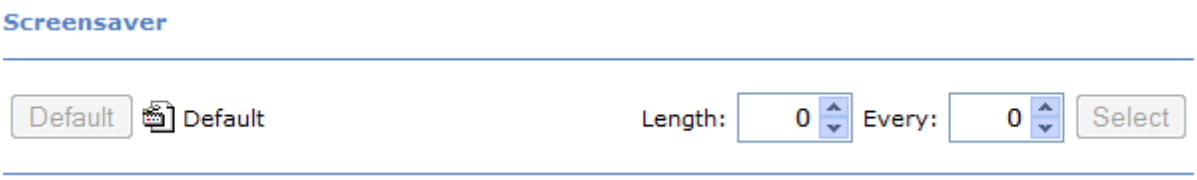


A layout is associated to a player selecting it from the drop down list. The None option will remove the widget and the ticker leaving the stage at full screen. After selecting the layout, confirm your choice clicking on **Apply**. Changes will be final after saving the player and publishing the player.

A layout preview is shown by pressing the **Preview** button. A window with the preview of the selected layout is open with real size and proportions. If the size of the selected layout exceeds the size of the current screen, the preview will be scaled proportionally.

A player layout can be:
1. **Updated**: the saved layout is the same of that applied to the player.
2. **Changed:** the saved layout (or one of its objects) has been changed and is different from that applied to the player. In this case the option is shown in light blue and its state is indicated by an icon and a description.
3. **Deleted**: the layout applied to the player is no longer available. It will be used by the player until a new layout will be selected and the old layout will be discarded.
   The option is shown in red along with an icon and a description.

Screensaver
A screensaver clip is used when the player schedule is empty and when the player is waiting for content download. It is possible to show the screen saver clip periodically(eg. as a network ad) setting the clip length and its frequency. The default screensaver shows the Web Signage logo. It is possible to change it for an existing clip, avoiding clips using those based on the HTML or WEB templates and clip using on line content and thus requiring an active connection to be played correctly. The screen saver execution will not be saved in the playlog.



Bluetooth
The Bluetooth settings are used to enable the function on the player and to configure the resend interval in minutes. The resend interval is used by the player to know how often a content will be sent **to the same device**. The Bluetooth device status is shown by the icon:
indicates that the Bluetooth hardware is not available or malfunctioning

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indicates that the Bluetooth is installed and available.

Bluetooth

Enable 120 Resend interval (mins) Status:

The **Operational state** indicates the time of last player connection.
Right below it is possible to enable automatic power management and to program the power on/off times.
Clicking on the **On** check box the player will be turned on at the time specified (7:00 in the example) and turned off at the time specified beside the Off label (21:30 in the example). The **Days** check boxes are used to set the days of the week with the player turned on (all days except Sundays in the example).
It is important to note that the settings will be applied after publishing it and the player will download the new settings according with its refresh interval.

The **Disabled** check box is used to make the player not operative without deleting it. A disabled player will stop the schedule execution and start to show the screensaver.

Operational state - last notification: 29/12/2008 9.35.00

On 7 0 Off 21 30 Disabled

Days: Su Mo Tu We Th Fr Sa

To better control the player operation it is possible to enable **e-mail alerts** to notify when the player **disconnects** and **reconnects**. It is possible to set different e-mail address for the two events.

E-mail alerts:

Disconnected: support@edisonweb.com Reconnected: support@edisonweb.com

For your convenience the player sends to the platform its current screen **resolution** and **orientation**. This information is shown in the properties panel.

Back New Save Publish Delete << < > >> 1/1

Properties

Resolution:	N/A x N/A px
Orientation:	N/A
Created on:	10/10/2009 5:08:52 PM -> John Doe
Last change:	10/10/2009 5:08:52 PM -> John Doe
Owner:	John Doe\None\None
Sharing:	None

At the lower bottom of the page, the following buttons are available:

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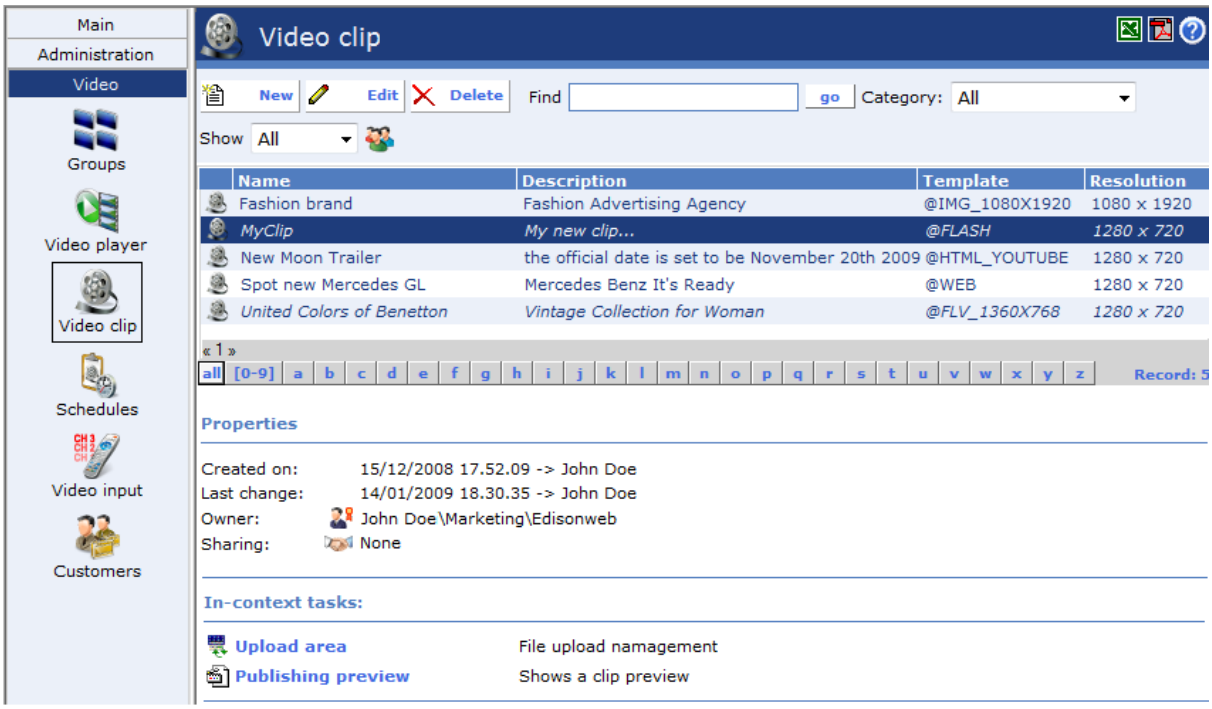
1. **Cancel:** goes back to the summary leaving the record unchanged.
2. **New:** clears all fields and prepares for a new record creation.
3. **Save**: This button is enabled only if there is unsaved data. Clicking on it the data is saved and a label showing the last change date and time is shown.
4. **Publish**: if enabled by the user role, makes the last changes available to the remote player machine.
5. **Delete:** upon confirmation, this button deletes the current record. The record will not be deleted if associated to other objects.
6. **Scroll to first (<<)** and **to last record (>>)**
7. **Scroll to previous record (<)** or **next record (>)**
8. At the right of the buttons is shown the number of the current record along with the total number of records (**record no./record total**).
9. The icon indicates that there are unpublished changes.To make the last changes available to the player machine a publishing is needed.

3.3 Video clip

Video clips are a container for the visual media, interactivity and Bluetooth content. All clips are produced using the Web Signage platform starting from a template and put within a schedule to be played on a display.
Video clips are built using two kinds of templates: system templates and custom templates. System templates are supplied along with the platform and cannot be changed, custom template are added by the users and created using Web Signage Template Manager and its documentation.



It is possible to create, retrieve, update and delete a clip.

1. To **create** a new record, click on the **New** button and fill the detail page shown.
2. To **update** an existing record, select the desired record from the list and click on the **Edit** button. An editable detail page is shown.
3. To **delete** a record, select the desired record from the list and click on the **Delete** button.

The following functions are provided to help you select and search the records:

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Find: Performs a search, looking for the text in the box within the record fields. The search is started after pressing the **go** button.
Category: Is a drop down list containing the list of all clip categories and the option *All.* You can use it to filter the list showing all records (All) or all records belonging to a specific category.

Alphabetic buttons
All: All records are shown
[0-9]: Only the records with the value of the first column starting with a number are shown.
[a,b...]: Only the records with the value of the first column starting with the selected letter are shown.
Paging: Using the **<<** (previous page) and **>>** (next page) it is possible to scroll through the pages if they exceed the maximum number of records displayed in single page..

Display filter
The options available in the **Show** combo box change following the privileges grant by the user roles. The **Shared** option is always visible, the other available options are:
1. **Owner:** All records owned by the current user are shown.
2. **Service**: All records owned by users belonging to current user's service are shown
3. **Area**: All records owned by users belonging to current user's area are shown
4. **All**: All records are shown
5. **Shared**: All records shared by other users are shown. The additional privileges for record change, deletion and in-context task availability are grant by the record owner.

In-context tasks
Two tasks are available:
- **Upload area**
  Used to upload contents and retrieving their URL. Mainly used to upload FLV files for streaming.
- **Publishing preview**
  Used to simulate the clip execution on a player for a final check before publishing.

System templates
The follow system templates, identified by a name starting with @, are available:

Template name	Description
@FLASH	Hosts a Flash movie resizing itself to the resolution and orientation of the SWF file.
@FLV_1360X768	Hosts a linked FLV video with resolution up to HD (horizontal)
@FLV_1920X1080	Hosts a linked FLV video with resolution up to FULL HD (horizontal)
@FLV_768X1360	Hosts a linked FLV video with resolution up to HD (vertical)
@FLV_1080X1920	Hosts a linked FLV video with resolution up to FULL HD (vertical)
@IMG_1360X768	Hosts images and Flash movies with resolution up to HD (horizontal)
@IMG_1920X1080	Hosts images and Flash movies with resolution up to FULL HD (horizontal)
@IMG_768X1360	Hosts images and Flash movies with resolution up to HD (vertical)
@IMG_1080X1920	Hosts images and Flash movies with resolution up to FULL HD (vertical)
@HTML	Hosts generic web content as embedded HTML
@HTML_SILVERLIGHT	Hosts a linked compiled Silverlight application (XAP)
@HTML_SLIDESHARE	Embeds slide shows using the code from www.slideshare.net
@HTML_YOUTUBE	Embeds videos using the code from www.youtube.com
@HTML_ZOOMORAMA	Embeds graphic contents using the code from www.zoomorama.com
@WEB	Hosts every kind of linked web resource

Clip details
The detail page for the selected object contains the record fields, the in-context tasks and the scroll buttons.
The record list available is shaped by the selections and filters applied to the summary. The active filters are shown below the title, at the right of the icon.

The **Name** field is required and it's used to identify a clip within a schedule.
The **Customer** list box is used to associate a clip with a customer. It is used to generate customer specific reports.
The **Category** list box is used to associate a clip with its category.
The **Notes or description** field is optional.

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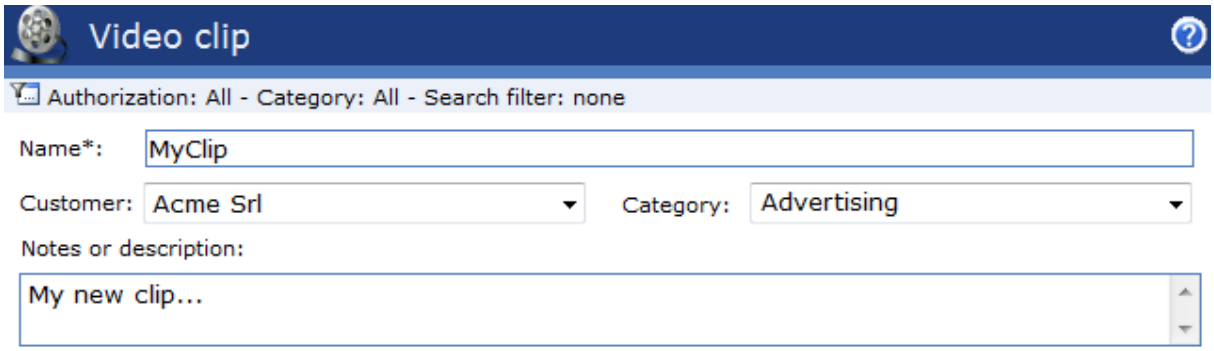

Template selection
Selecting a template is the first step for creating a new clip. All template files have a WST extension.

Clicking on the **Select** button, the Template preview window opens. Using this window you can browse the **template library** and select the desired one.
For every template a preview is shown and the template fields are listed. A **[Txt]** suffix on a field name indicates a text field, while **[Img]** indicates an image or Flash movie field. If the template supports linking with external XML data or FLV Flash videos an icon is shown.

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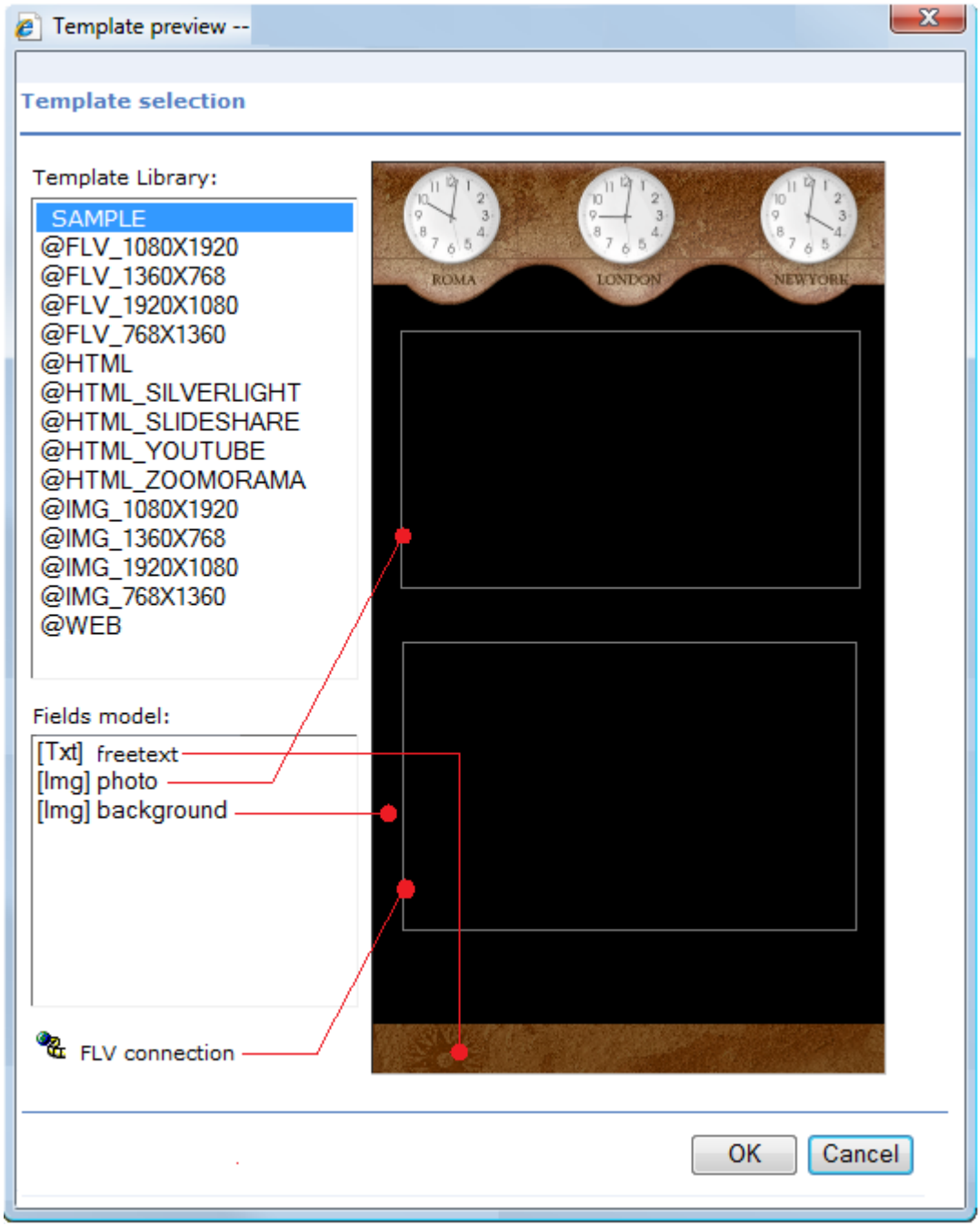

When a template is selected, the inner fields are shown within the clip details, ready to be filled.

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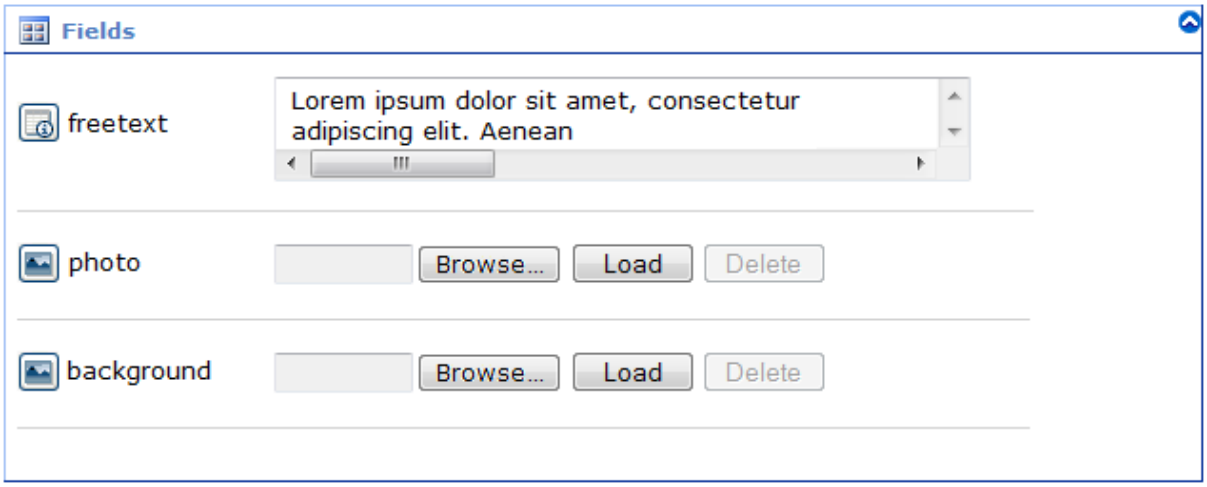


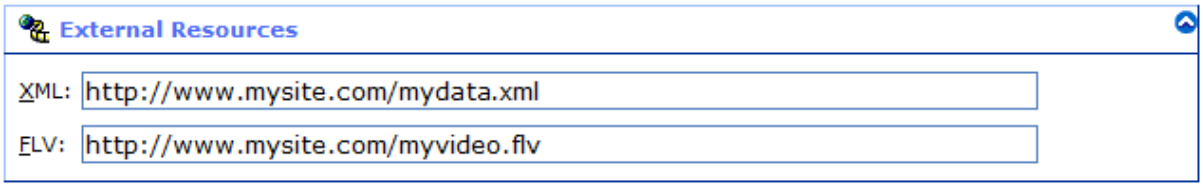
Every field shows its unique name, description and a button for opening the text or image preview.

The following file formats can be used for movie and image uploads:

- jpg
- gif
- png
- bmp
- tiff
- swf

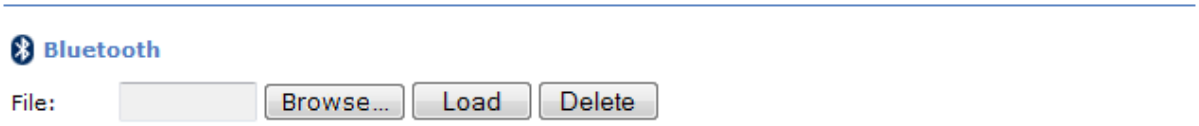
If supported, the fileds for connecting external resources will be shown:

- URL of external XML data sources
- URL of FLV Flash videos



Bluetooth contents

It is possible to load files that will be sent to all mobile devices nearby when the clip is shown on the player's display.
This feature relies on the Bluetooth hardware of the player.



The following file tipes are allowed for Bluetooth contents:

Text	Images	Audio	Video	Application
HTML	jpg	midi	3gpp	flash
plain text	gif	amr	mpeg	java
vCard	png	wav	avi	jar
Calendar		aac	m4v	
		m4a		
		mpeg		

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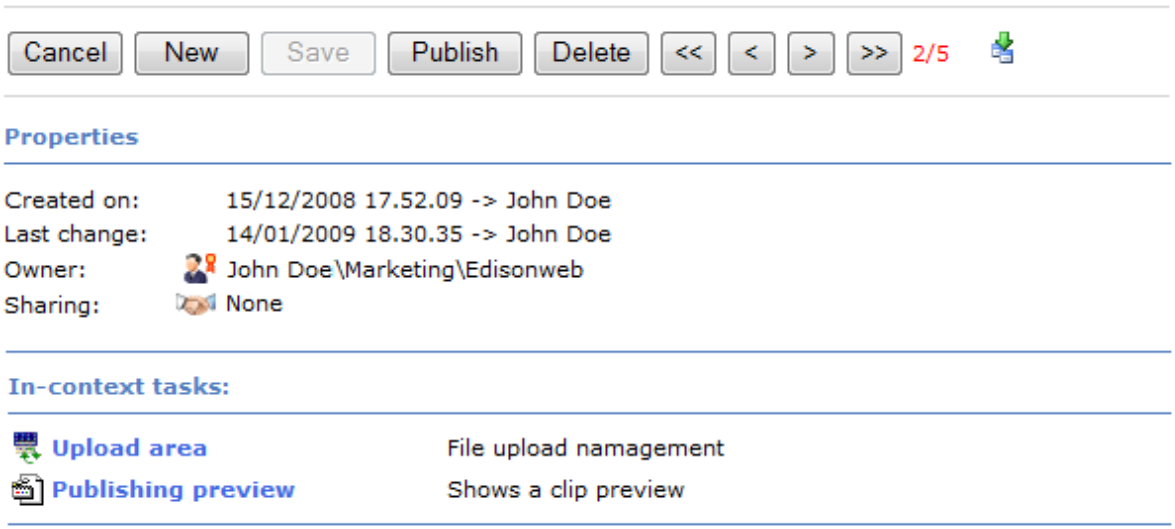

At the lower bottom of the page, the following buttons are available:

1. **Cancel:** goes back to the summary leaving the record unchanged.
2. **New:** clears all fields and prepares for a new record creation.
3. **Save**: This button is enabled only if there is unsaved data. Clicking on it the data is saved and a label showing the last change date and time is shown.
4. **Publish**: if enabled by the user role, makes the last changes available to the remote player machines.
5. **Delete:** upon confirmation, this button deletes the current record. The record will not be deleted if associated to other objects.
6. **Scroll to first (<<)** and **to last record (>>)**
7. **Scroll to previous record (<)** or **next record (>)**
8. At the right of the buttons is shown the number of the current record along with the total number of records (**record no./record total**).
9. The icon indicates that there are unpublished changes.To make the last changes available to the player machines a publishing is needed.

3.4 Schedules

A schedule is basically a list of clips with a validity interval and a programming for every time slot. Every clip has its own position, length and number of loops within the programming.
A schedule can be applied to a single player or to a group.

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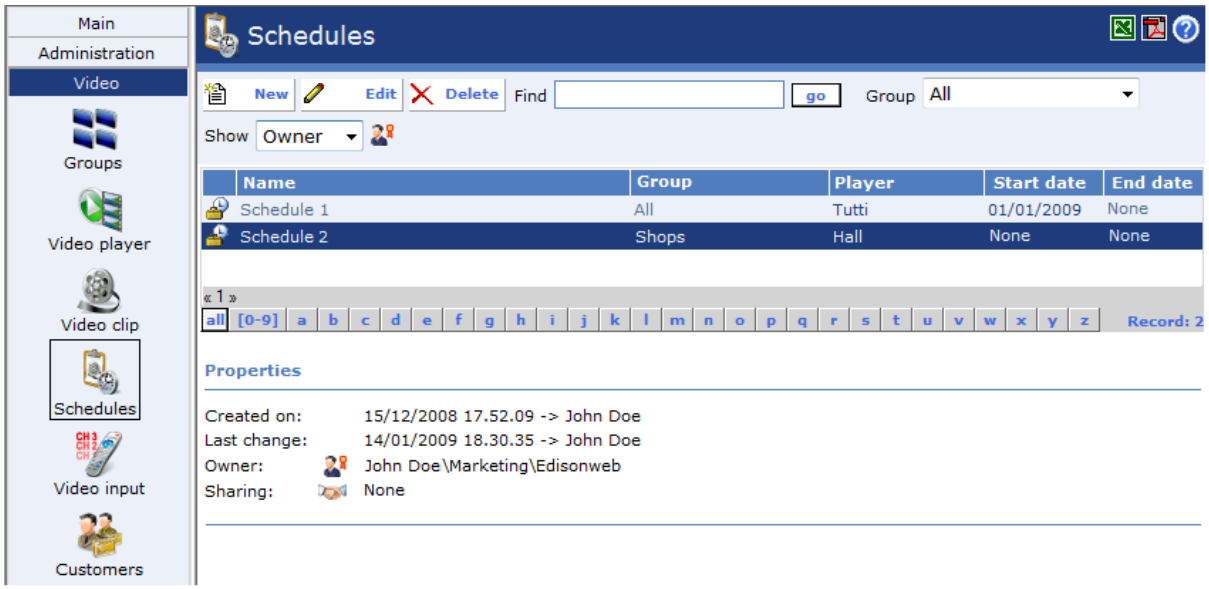

It is possible to create, retrieve, update and delete a schedule.

1. To **create** a new record, click on the **New** button and fill the detail page shown.
2. To **update** an existing record, select the desired record from the list and click on the **Edit** button. An editable detail page is shown.
3. To **delete** a record, select the desired record from the list and click on the **Delete** button.

The following functions are provided to help you select and search the records:
Find: Performs a search, looking for the text in the box within the record fields. The search is started after pressing the **go** button.
Group: Is a drop down list containing the list of all groups and the option *All.* You can use it to filter the list showing all records (All) or all records belonging to a specific group.

Alphabetic buttons
All: All records are shown
[0-9]: Only the records with the value of the first column starting with a number are shown.
[a,b...]: Only the records with the value of the first column starting with the selected letter are shown.
Paging: Using the **<<** (previous page) and **>>** (next page) it is possible to scroll through the pages if they exceed the maximum number of records displayed in single page..

Display filter
The options available in the **Show** combo box change following the privileges grant by the user roles. The **Shared** option is always visible, the other available options are:
1. **Owner:** All records owned by the current user are shown.
2. **Service**: All records owned by users belonging to current user's service are shown
3. **Area**: All records owned by users belonging to current user's area are shown
4. **All**: All records are shown
5. **Shared**: All records shared by other users are shown. The additional privileges for record change, deletion and in-context task availability are grant by the record owner.

Schedule detail

The detail page for the selected object contains the record fields, the in-context tasks and the scroll buttons.
The record list available is shaped by the selections and filters applied to the summary. The active filters are shown below the title, at the right of the icon.

The **Name** field is required and it's used to identify a schedule.
The optional **Start date** is used to define when the schedule will start to be available to the players. If not supplied, the schedule will be active upon publishing.
The optional **End date** is used to define when the schedule will be no more available to the players. If

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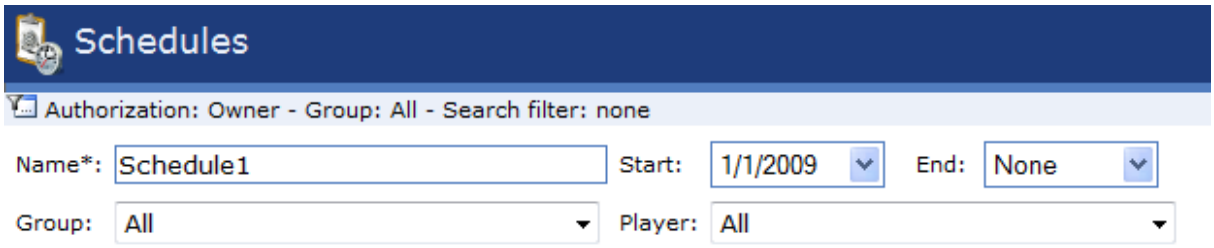
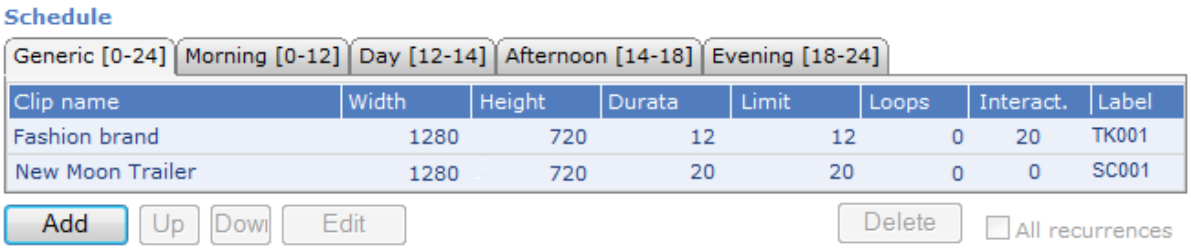
not supplied, the schedule will be always available.
The **Group** list box is used to associate a schedule with a player group.
The **Player** list box is used to associate a schedule to a single player belonging to the selected group.
If Group is set to All, then All players is the only option



Programming
The program contains a list of clips that will be used by the player in a time slot. There is a programming for 4 time slots. An additional generic time slot covers the whole day and it is used to program the clips that will be played regardless of time. The programming will be merged to create the appropriate playlist for each time. The number of schedules is unlimited and if several schedules overlap on the same time slot the playlists will merge. In case of overlapping of very long programs the time slot can be filled and some clips cannot be played. A function on the analysis page will warn if a specific timeslot is full.



Every clip can be moved **up** and **down** or **deleted**. The **All recurrences** check box is useful if all occurrences of a clip need to be removed from the time slot.
The following options can be set for every clip:

- Limit (sec) sets the actual clip duration
- Loops (number of loops, the first execution is excluded)
- Interaction (sec.) the wait time after an interaction before the normal schedule restarts
- Label (a label used to identify uniquely a single clip within the program)

Other clip properties, inherited from the template, are width, height and the estimated length based on the video and dynamic objects inside. The resolution gives information about the proportion (usually 16:9) and clips orientation (horizontal or vertical).
Note that the estimated duration sometimes differs from the real play time. This figure is calculated taking the higher execution time of the objects within the clip.So, if a clip contains a FLV video the length will be right. For a Flash movie the execution time is estimated dividing the frame rate by the number of frames. The frame rate is set during the Flash movie development process and the number of frames depends on how the content is designed. If many movie clips are nested within the main timeline or the execution is controlled using action scripts the estimated length can be inaccurate. The real execution time in seconds can be set using the **limit** property. A limit set to zero means thet the clip never ends. A clip can have an execution time higher than limit in case of user **interaction**. For example, every time an user interacts through a touchscreen or other pointing device, the play time will be increased of the number of seconds set in the **Interact.** property. If this property is set to zero, the clip will not respond to user interactions.

Adding a new clip
The Add button opens the Clip selection window, listing all clips available along with their previews.

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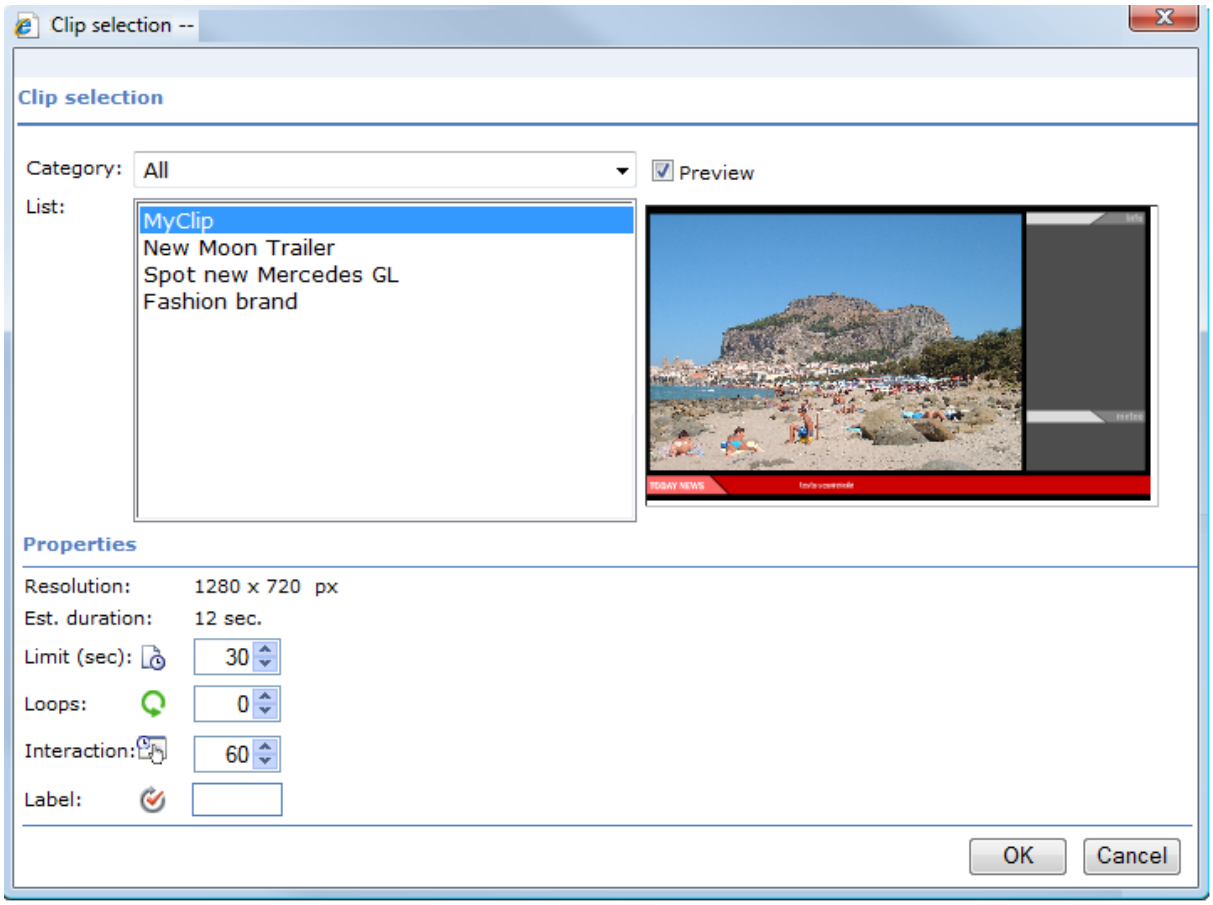

The resolution and estimated length for the selected clip are shown at the bottom near the controls for setting the limit time, loops, interaction times and label. As said before, a limit set to zero means an unlimited execution, and the loop counts only repetitions, so if set to zero means a single execution. After selecting a clip and setting the properties as needed, clicking on OK will close the window and add the clip to the schedule.

Changing an existing clip

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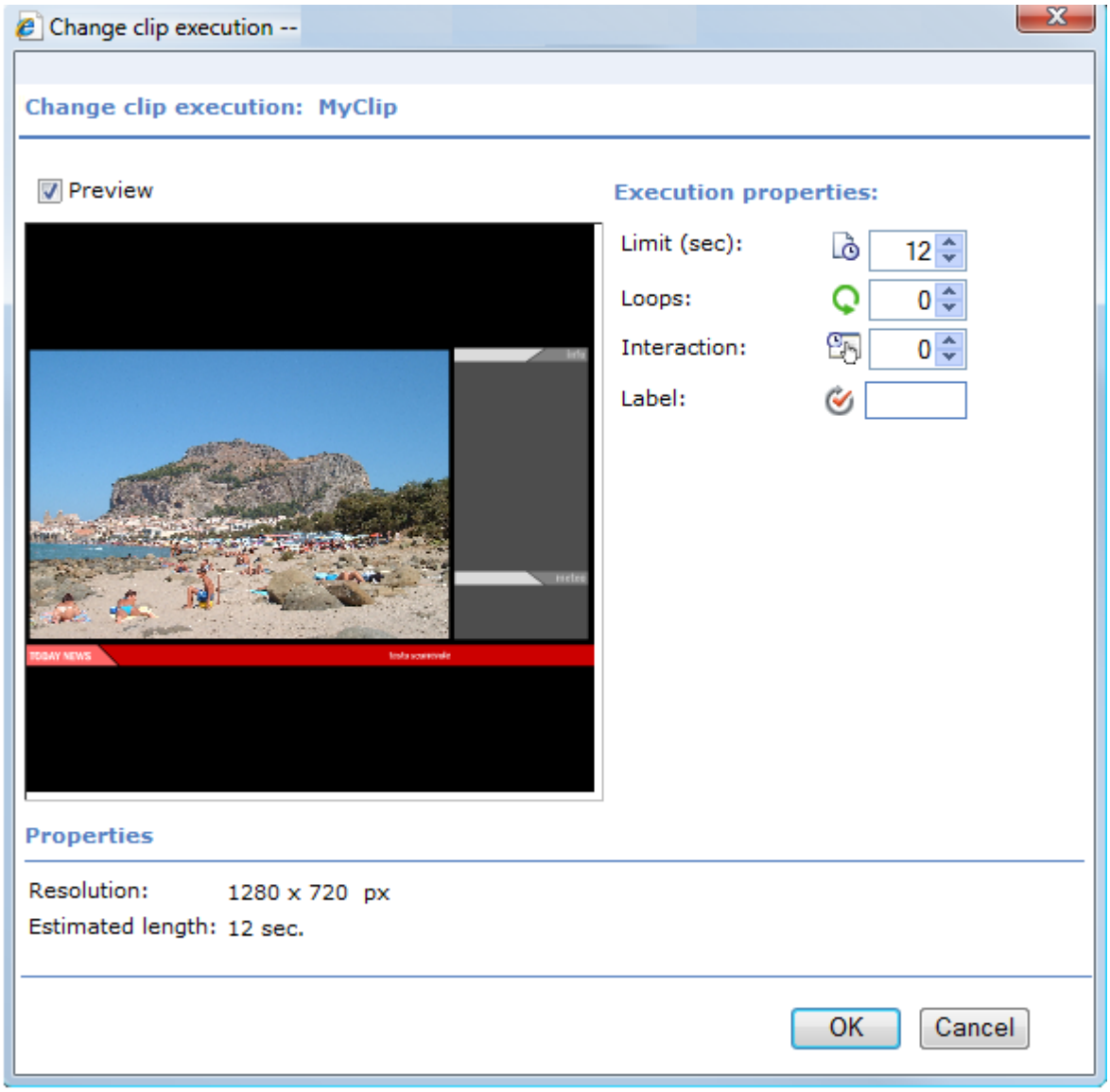

The Edit button opens the clip detail with the limit, loops, interaction and label properties. A preview is available checking the related box.
Change the properties as needed and click OK to save your changes.

At the lower bottom of the page, the following buttons are available:
1. **Cancel:** goes back to the summary leaving the record unchanged.

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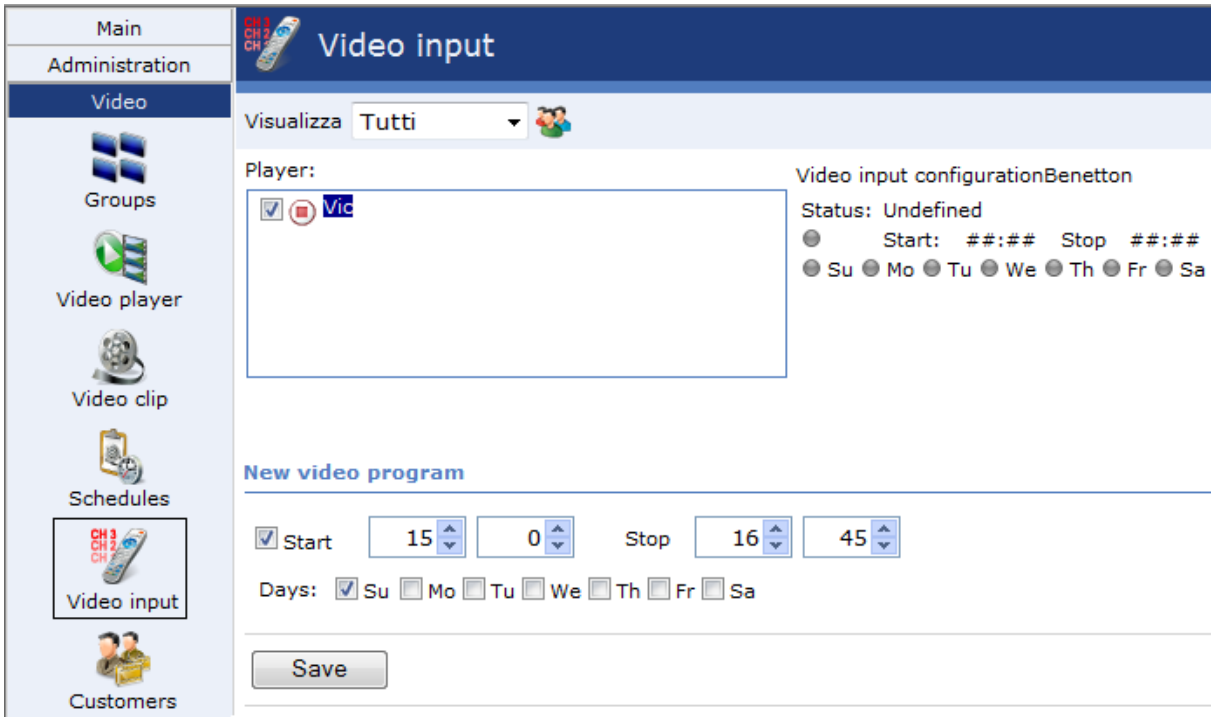
2. **New:** clears all fields and prepares for a new record creation.
3. **Save**: This button is enabled only if there is unsaved data. Clicking on it the data is saved and a label showing the last change date and time is shown.
4. **Publish**: if enabled by the user role, makes the last changes available to the remote player machines.
5. **Delete:** upon confirmation, this button deletes the current record. The record will not be deleted if associated to other objects.
6. **Scroll to first (<<)** and **to last record (>>)**
7. **Scroll to previous record (<)** or **next record (>)**
8. At the right of the buttons is shown the number of the current record along with the total number of records (**record no./record total**).

1. The icon indicates that there are unpublished changes.To make the last changes available to the player machines a publishing is needed.

3.5 Video input

Every player can be connected to an external video source (usually a set top box or a digital terrestrial television decoder) in order to show the video input on the stage instead of the scheduled contents. The ticker and widgets will be displayed along with the video.
Using the video input configuration is possible to program the days of week and the switch on/off times for the video input.
In order to display correctly the video input on the stage, the video source must be active and correctly configured (refer to the Web Signage Player and video source hardware documentation) when switched on.



To program the video input, check the players desired on the list. Many players can be configured at the same time.
Clicking on the **On** check box the video input will be turned on at the time specified (15:00 in the example) and turned off at the time specified beside the Stop label (16:45 in the example). The **Days** check boxes are used to set the days of the week with the video input turned on (Sundays only in the example).
Click on Save to store your settings, the previous settings will be overwritten. Note that the player will

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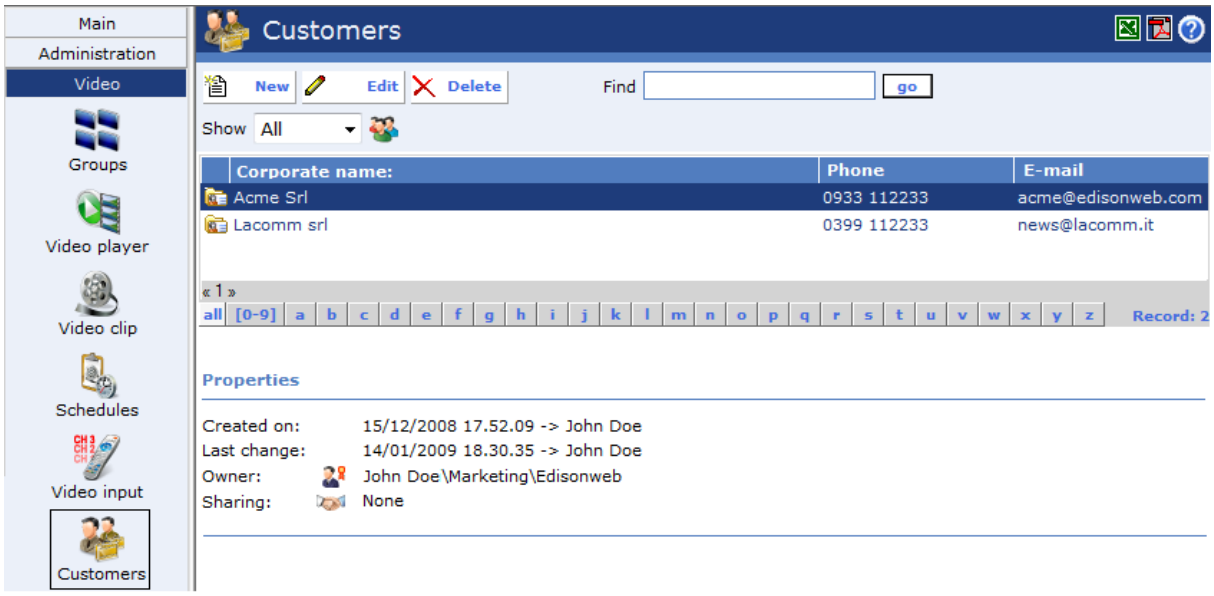
download the new settings according with its refresh interval.

3.6 Customers

The customers data base is used to relate a clip with the customer that requested it. This relationship is used to produce reports for billing purposes.



It is possible to create, retrieve, update and delete a customer.

1. To **create** a new record, click on the **New** button and fill the detail page shown.
2. To **update** an existing record, select the desired record from the list and click on the **Edit** button. An editable detail page is shown.
3. To **delete** a record, select the desired record from the list and click on the **Delete** button.

Note: If a clip is associated to the selected customer the deletion is not possible. You have to remove all relationships first.

The following functions are provided to help you select and search the records:

Find: Performs a search, looking for the text in the box within the record fields. The search is started after pressing the **go** button.

Alphabetic buttons
All: All records are shown
[0-9]: Only the records with the value of the first column starting with a number are shown.
[a,b...]: Only the records with the value of the first column starting with the selected letter are shown.
Paging: Using the **<<** (previous page) and **>>** (next page) it is possible to scroll through the pages if they exceed the maximum number of records displayed in single page..

Display filter
The options available in the **Show** combo box change following the privileges grant by the user roles. The **Shared** option is always visible, the other available options are:
1. **Owner:** All records owned by the current user are shown.
2. **Service**: All records owned by users belonging to current user's service are shown
3. **Area**: All records owned by users belonging to current user's area are shown
4. **All**: All records are shown
5. **Shared**: All records shared by other users are shown. The additional privileges for record change,

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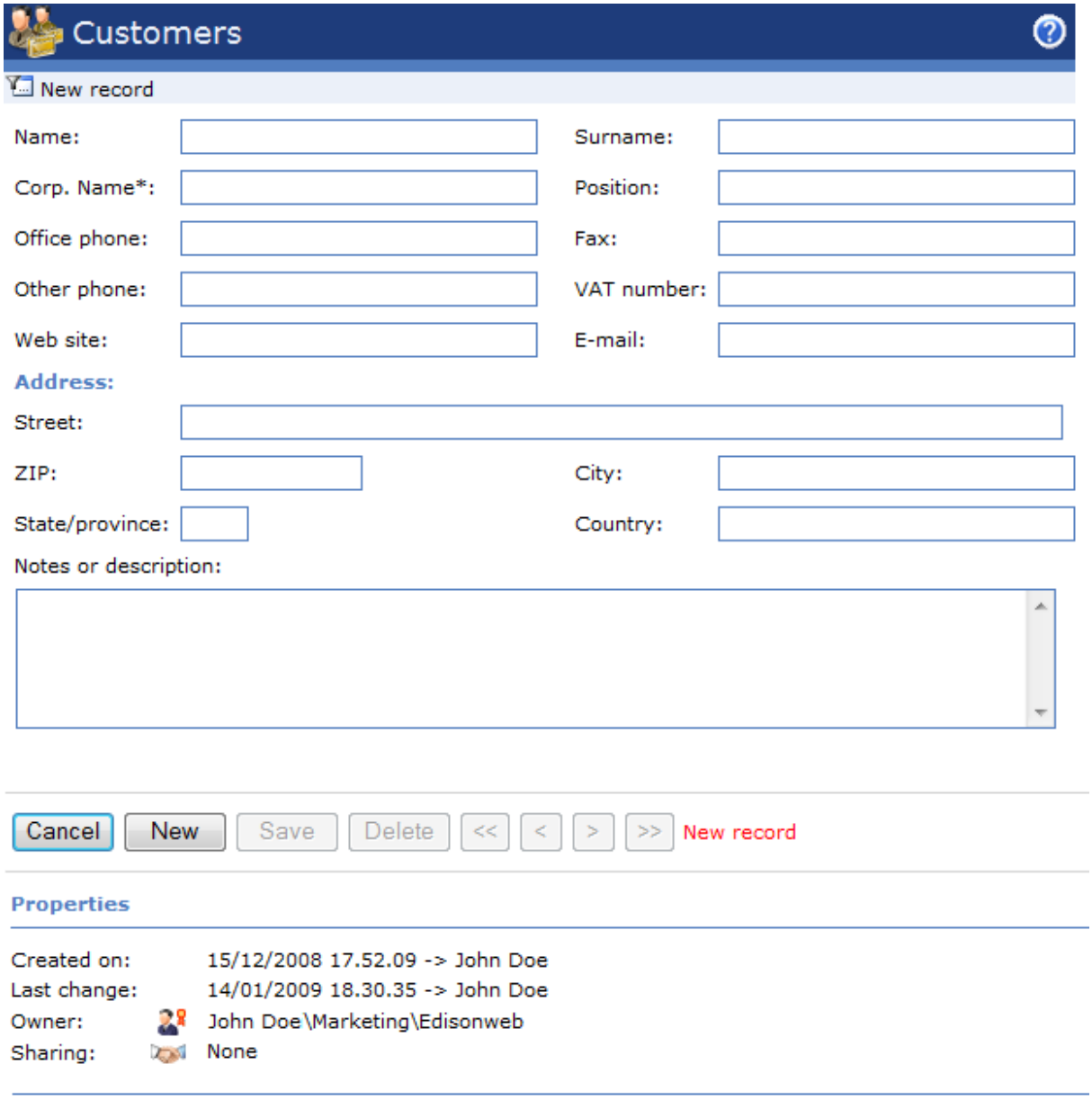
deletion and in-context task availability are grant by the record owner.

Customer details

The detail page for the selected object contains the record fields, the in-context tasks and the scroll buttons.
The record list available is shaped by the selections and filters applied to the summary. The active filters are shown below the title, at the right of the icon.

The **Corporate name** field is required, as well as all fields marked with an * (asterisk).



At the lower bottom of the page, the following buttons are available:

1. **Cancel:** goes back to the summary leaving the record unchanged.
2. **New:** clears all fields and prepares for a new record creation.
3. **Save**: This button is enabled only if there is unsaved data. Clicking on it the data is saved and a label showing the last change date and time is shown.
4. **Delete:** upon confirmation, this button deletes the current record. The record will not be deleted if associated to other objects.

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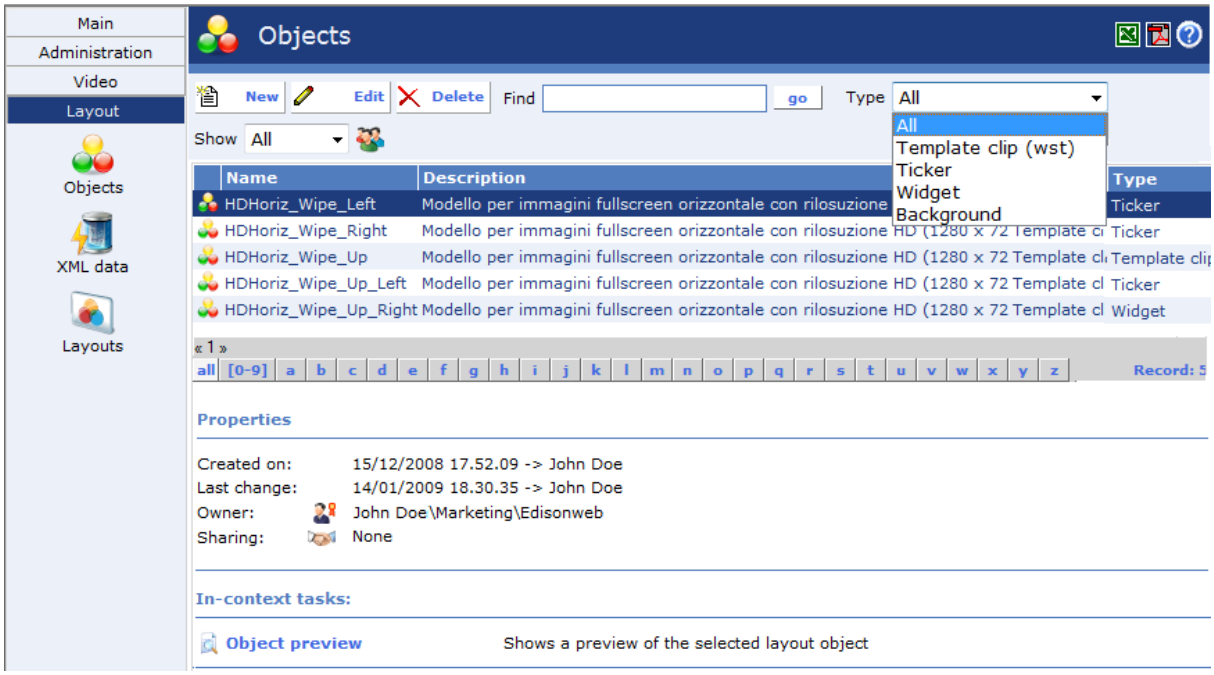
5. **Scroll to first (<<)** and **to last record (>>)**
6. **Scroll to previous record (<)** or **next record (>)**
7. At the right of the buttons is shown the number of the current record along with the total number of records (**record no./record total**).

4 Layout

The Layout management allows to set and customize the layout of the player's screen defining presence and placement of widgets and tickers, backgrounds and the access to external data sources used to display dynamic content.

4.1 Objects

Objects are graphic elements used to build a layout or to create clips.



It is possible to create, retrieve, update and delete an object. Moreover, using the in-context tasks it is possible to display an object **Preview**.

1. To **create** a new record, click on the **New** button and fill the detail page shown.
2. To **update** an existing record, select the desired record from the list and click on the **Edit** button. An editable detail page is shown.
3. To **delete** a record, select the desired record from the list and click on the **Delete** button.

Note: If a player is associated to the selected group the deletion is not possible. You have to remove all relationships first.

The following functions are provided to help you select and search the records:
Find: Performs a search, looking for the text in the box within the record fields. The search is started after pressing the **go** button.
Type: Is a drop down list containing the list of all object types and the option *All.* You can use it to filter the list showing all records (All) or all records belonging to a specific type.

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Alphabetic buttons
All: All records are shown
[0-9]: Only the records with the value of the first column starting with a number are shown.
[a,b...]: Only the records with the value of the first column starting with the selected letter are shown.
Paging: Using the **<<** (previous page) and **>>** (next page) it is possible to scroll through the pages if they exceed the maximum number of records displayed in single page..

Display filter
The options available in the **Show** combo box change following the privileges grant by the user roles. The **Shared** option is always visible, the other available options are:
1. **Owner:** All records owned by the current user are shown.
2. **Service**: All records owned by users belonging to current user's service are shown
3. **Area**: All records owned by users belonging to current user's area are shown
4. **All**: All records are shown
5. **Shared**: All records shared by other users are shown. The additional privileges for record change, deletion and in-context task availability are grant by the record owner.

Customer details

The detail page for the selected object contains the record fields, the in-context tasks and the scroll buttons.
The record list available is shaped by the selections and filters applied to the summary. The active filters are shown below the title, at the right of the icon.

The **Name** field is required, as well as all fields marked with an * (asterisk).
The **Notes or description** is optional.
The **Type** list box defines the object type. The object type can be selected on creation only.

The following options are available:
- **WST Template:** templates used to create a clip with texts, videos, images or information from external data sources.
- **Ticker:** Flash object placed on top or at the bottom of the stage, showing animated text from RSS feeds, texts, images or information from external data sources.
- **Widget:** Flash object placed at the side of the stage, showing texts, images or information from external data sources or custom applications like queuing systems.
- **Background:** image shown below all other objects

The following file types are allowed:

Ticker	Widget	Background	Template
.swf	.swf	.jpg	.wst
		.gif	
		.png	
		.bmp	

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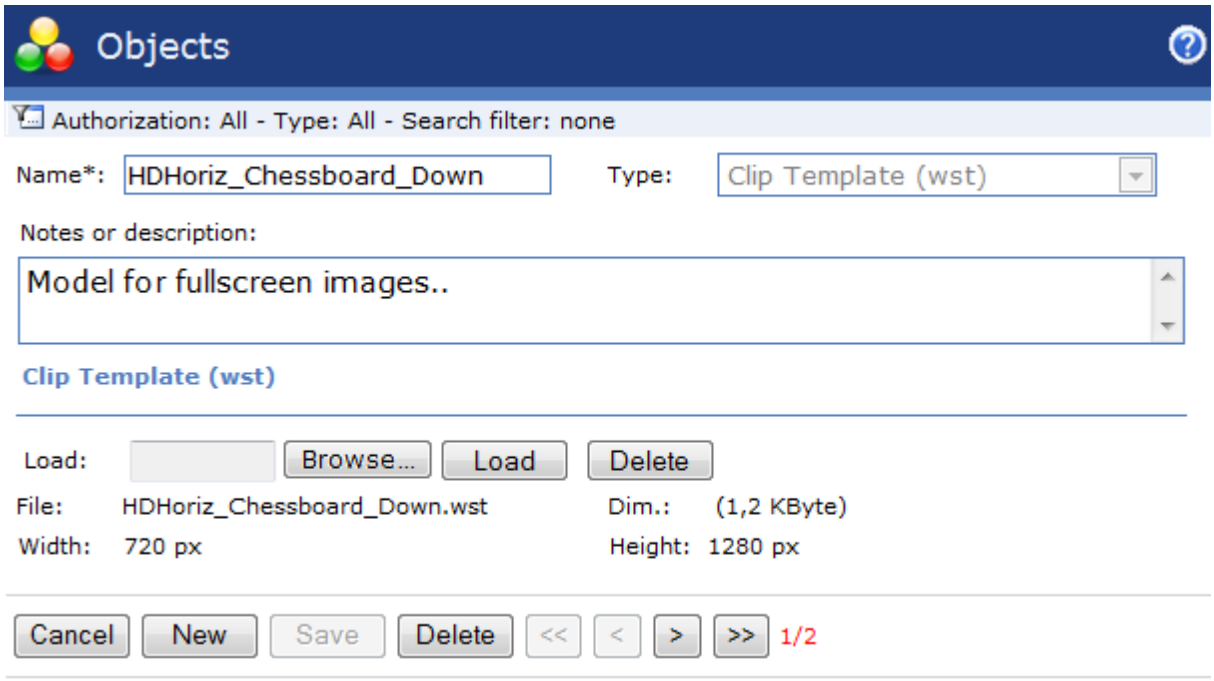

At the lower bottom of the page, the following buttons are available:

1. **Cancel:** goes back to the summary leaving the record unchanged.
2. **New:** clears all fields and prepares for a new record creation.
3. **Save**: This button is enabled only if there is unsaved data. Clicking on it the data is saved and a label showing the last change date and time is shown.
4. **Delete:** upon confirmation, this button deletes the current record. The record will not be deleted if associated to other objects.
5. **Scroll to first (<<)** and **to last record (>>)**
6. **Scroll to previous record (<)** or **next record (>)**
7. At the right of the buttons is shown the number of the current record along with the total number of records (**record no./record total**).
8. The icon indicates that there are unpublished changes.To make the last changes available to the player machines a publishing is needed.

4.2 XML data

XML data is information containing texts, images and links used to supply data to layout objects (eg. Widgets or tickers) with dynamic contents.
XML data is grouped using data containers

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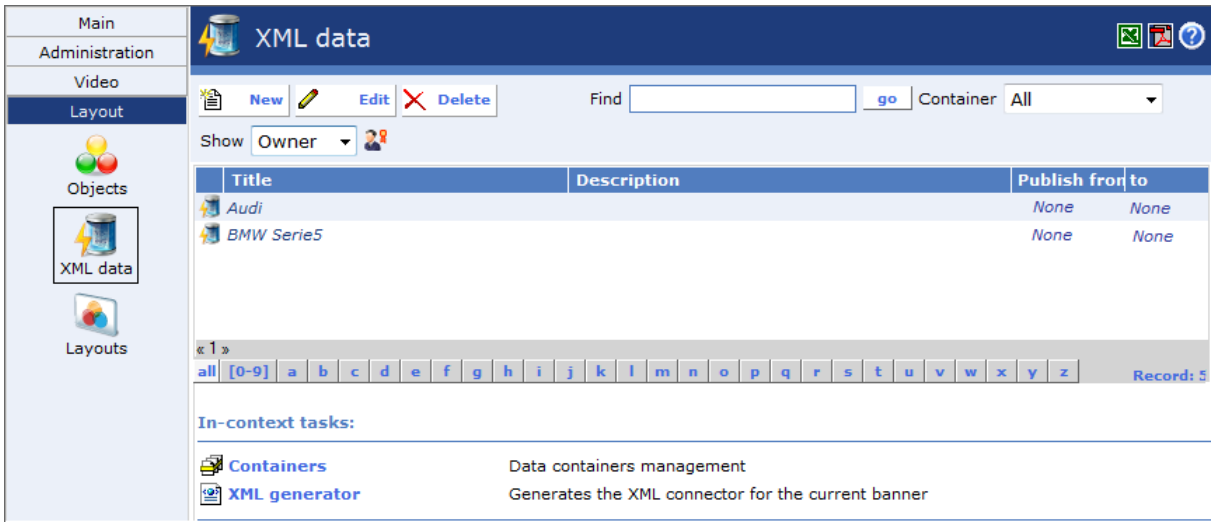

It is possible to create, retrieve, update and delete an object. Moreover, using the in-context tasks it is possible to display manage data **Containers** and use the **XML generator**.

1. To **create** a new record, click on the **New** button and fill the detail page shown.
2. To **update** an existing record, select the desired record from the list and click on the **Edit** button. An editable detail page is shown.
3. To **delete** a record, select the desired record from the list and click on the **Delete** button.

Note: If a player is associated to the selected group the deletion is not possible. You have to remove all relationships first.

The following functions are provided to help you select and search the records:

Find: Performs a search, looking for the text in the box within the record fields. The search is started after pressing the **go** button.
Container: Is a drop down list containing the list of all data containers and the option *All.* You can use it to filter the list showing all records (All) or all records belonging to a specific container.

Alphabetic buttons
All: All records are shown
[0-9]: Only the records with the value of the first column starting with a number are shown.
[a,b...]: Only the records with the value of the first column starting with the selected letter are shown.
Paging: Using the **<<** (previous page) and **>>** (next page) it is possible to scroll through the pages if they exceed the maximum number of records displayed in single page..

Display filter
The options available in the **Show** combo box change following the privileges grant by the user roles. The **Shared** option is always visible, the other available options are:
1. **Owner:** All records owned by the current user are shown.
2. **Service**: All records owned by users belonging to current user's service are shown
3. **Area**: All records owned by users belonging to current user's area are shown
4. **All**: All records are shown
5. **Shared**: All records shared by other users are shown. The additional privileges for record change, deletion and in-context task availability are grant by the record owner.

Containers
If available to the current user's role, the Containers in-context task is used to add, change or delete data containers.

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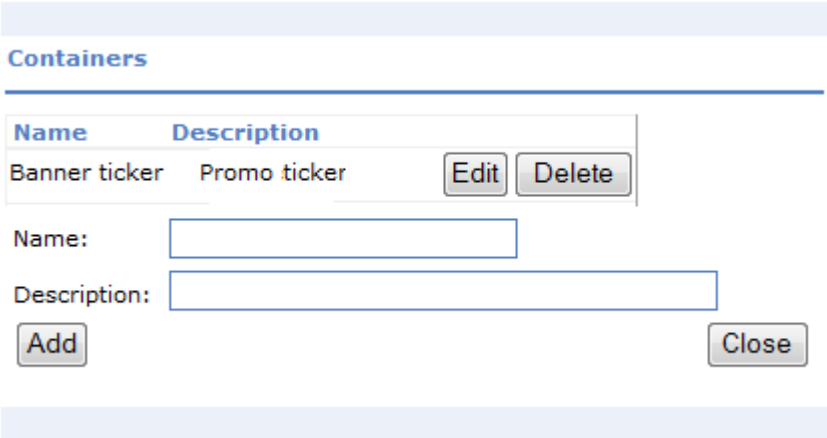
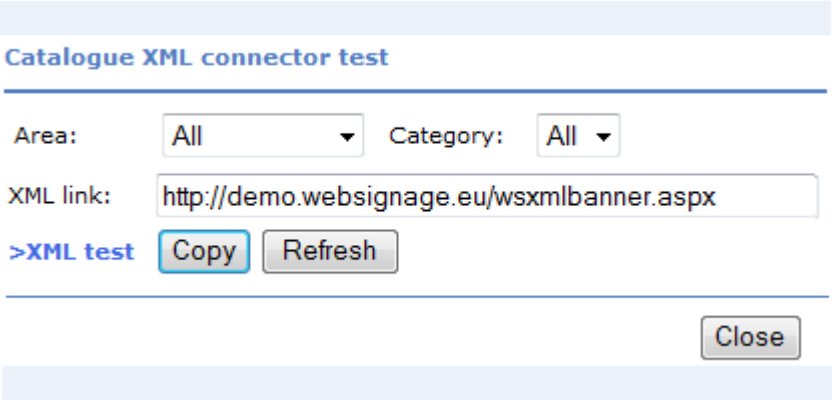


XML generator
The XML generator is used to retrieve the XML data source URL. It is possible to create an URL for sources filtered by area and container.
The Copy button will copy the URL to the clipboard. It is possible to display the raw XML stream by clicking on the **>XML test** link.



XML data details

The detail page for the selected object contains the record fields, the in-context tasks and the scroll buttons.
The record list available is shaped by the selections and filters applied to the summary. The active filters are shown below the title, at the right of the icon.

The **Title** field is required, as well as all fields marked with an * (asterisk).
The **Container** list box defines the container used for the current record.
The following fields are optional and their use depends on the object used to display the information:

- Long description
- Image (only jpg, gif and png images are allowed)
- Delay (used by the object to set the minimum display time in seconds)
- Link

The **Published on** and **Expires on** dates are used to control the information availability.
If the **Published on** date is not supplied, the information will be available upon publishing. If the **Expires on** date is not supplied, the information will be always available.

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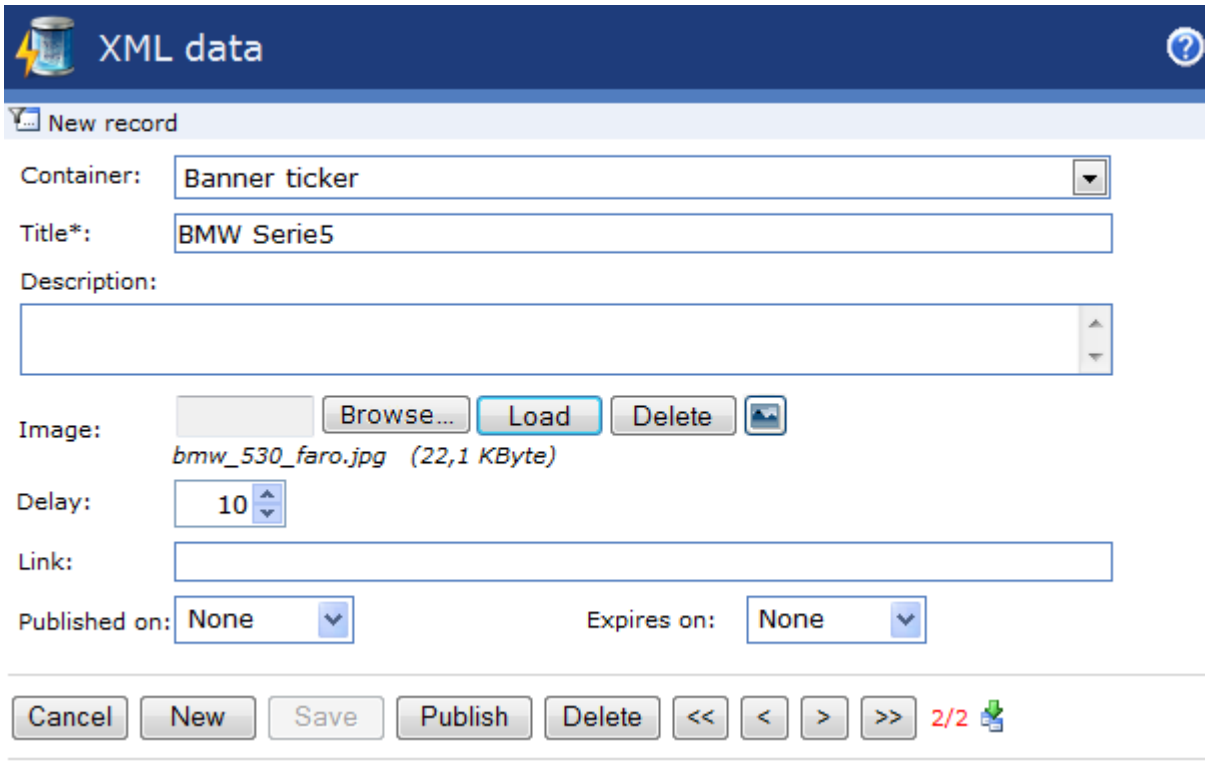

At the lower bottom of the page, the following buttons are available:

1. **Cancel:** goes back to the summary leaving the record unchanged.
2. **New:** clears all fields and prepares for a new record creation.
3. **Save**: This button is enabled only if there is unsaved data. Clicking on it the data is saved and a label showing the last change date and time is shown.
4. **Publish**: if enabled by the user role, makes the last changes available to the remote player machines.
5. **Delete:** upon confirmation, this button deletes the current record. The record will not be deleted if associated to other objects.
6. **Scroll to first (<<)** and **to last record (>>)**
7. **Scroll to previous record (<)** or **next record (>)**
8. At the right of the buttons is shown the number of the current record along with the total number of records (**record no./record total**).
9. The icon indicates that there are unpublished changes.To make the last changes available to the player machines a publishing is needed.

4.3 Layouts

Layout objects and XML data sources are used to create the player layout. Unlimited player layouts, created freely combining the objects, can be stored.

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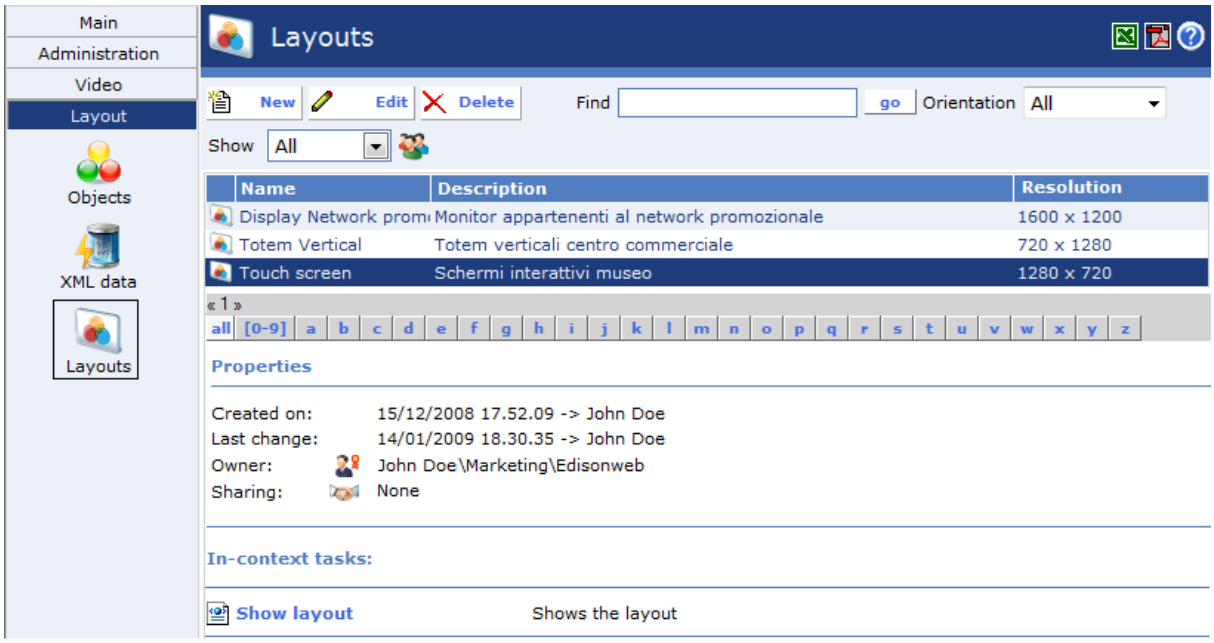

It is possible to create, retrieve, update and delete an object. Moreover, using the in-context tasks it is possible to display an layout **Preview**.

1. To **create** a new record, click on the **New** button and fill the detail page shown.
2. To **update** an existing record, select the desired record from the list and click on the **Edit** button. An editable detail page is shown.
3. To **delete** a record, select the desired record from the list and click on the **Delete** button.

Note: If a player is associated to the selected group the deletion is not possible. You have to remove all relationships first.

The following functions are provided to help you select and search the records:
Find: Performs a search, looking for the text in the box within the record fields. The search is started after pressing the **go** button.
Orientation: Is a drop down list containing the list of orientation and the option *All.* You can use it to filter the list showing all records (All) or all records belonging to a specific orientation.

Alphabetic buttons
All: All records are shown
[0-9]: Only the records with the value of the first column starting with a number are shown.
[a,b...]: Only the records with the value of the first column starting with the selected letter are shown.
Paging: Using the **<<** (previous page) and **>>** (next page) it is possible to scroll through the pages if they exceed the maximum number of records displayed in single page..

Display filter
The options available in the **Show** combo box change following the privileges grant by the user roles. The **Shared** option is always visible, the other available options are:
1. **Owner:** All records owned by the current user are shown.
2. **Service**: All records owned by users belonging to current user's service are shown
3. **Area**: All records owned by users belonging to current user's area are shown
4. **All**: All records are shown
5. **Shared**: All records shared by other users are shown. The additional privileges for record change, deletion and in-context task availability are grant by the record owner.

Layout details
The detail page for the selected object contains the record fields, the in-context tasks and the scroll buttons.

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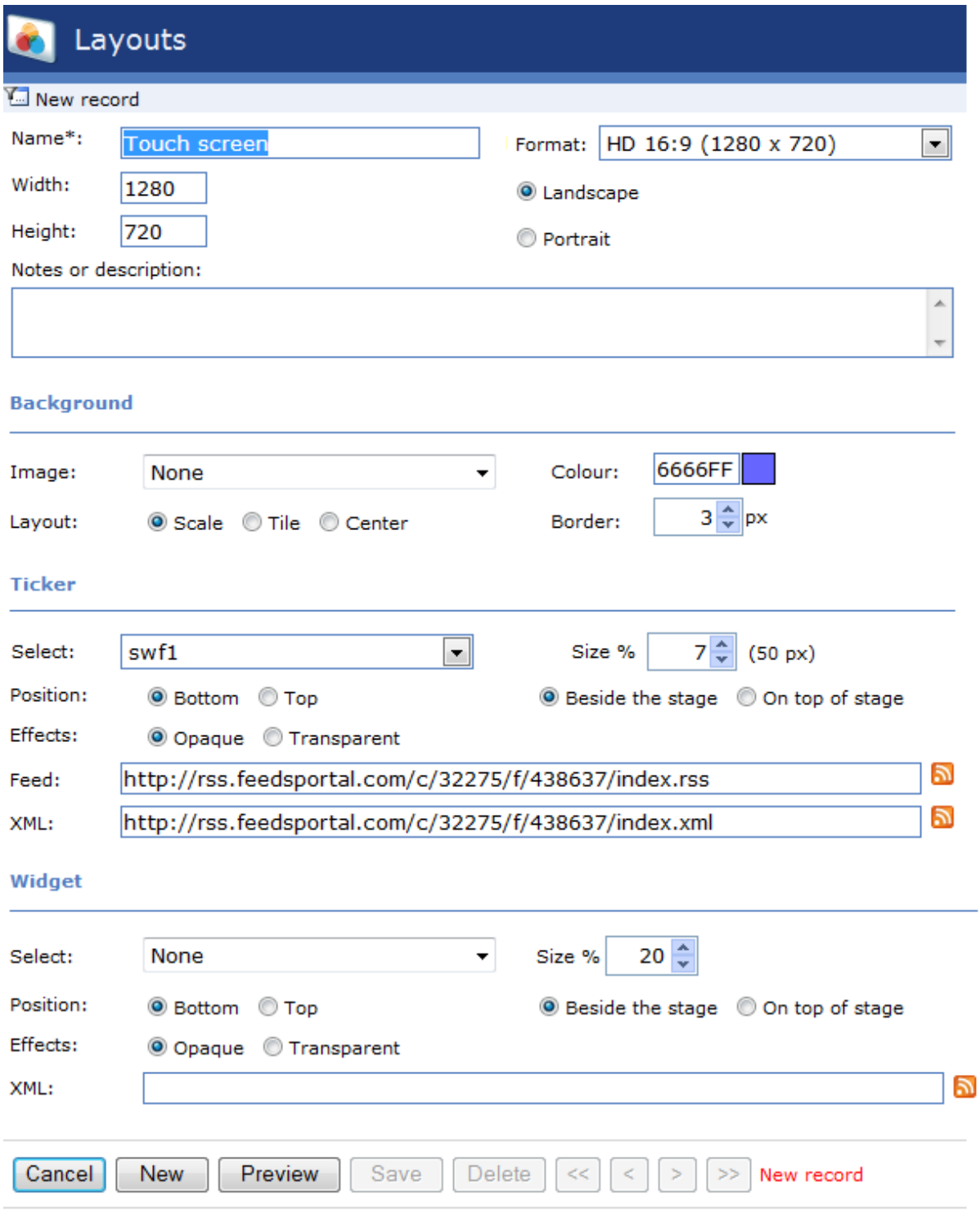
The record list available is shaped by the selections and filters applied to the summary. The active filters are shown below the title, at the right of the icon.

The **Name** field is required, as well as all fields marked with an * (asterisk).
The **Format** combo box contains options for all common video formats. Selecting a format, the **Width** and **Height** fields will be set automatically.
Changing the orientation from **Landscape** to **Portrait** will invert the **Width** and **Height** fields.
The **Notes or description** is optional.



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Background
The background image is set using the **Image** combo box with options for all backgrounds objects available.
The **Layout options** set how the background image is used:

- **Scale:** Enlarges the image to fill the player screen, altering its proportions if needed.
- **Tile:** Duplicates the original-sized image as often as necessary and prints the images next to another so as they entirely cover the player screen. This option is useful for texture effects.
- **Center:** Displays the image in the middle of the screen, respecting the image's original size and shape.

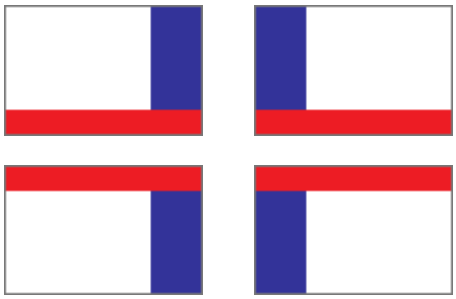
The background will be visible with transparent tickers and widgets and between objects. The **Border** value is sets the spacing between objects in pixels.
If *None* is selected, it is possible to choose a flat background **Color**.

Ticker
The ticker is selected using the **Select** combo box with options for all ticker objects available. The ticker will be placed at the **top** or **bottom** of the screen according to the **Position** radio button. The **size** is calculated as a percentage of the screen height for the current format. The ticker can be placed **Beside the stage** or **On top of stage**.
The stage is the area of the screen used to display the scheduled content. If the ticker is set to be beside the stage, the latter is resized. If the ticker is set to be on top of stage and **transparent**, the background or the stage will be visible through it.
The ticker supports any standard RSS feed by which reads and displays the *title* fields in sequence. If an external data source is supported, the corresponding URL is set using the **XML** field.

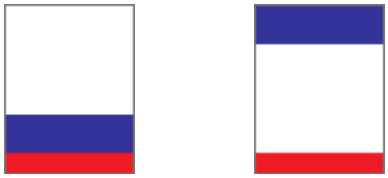
Widget
The widget is selected using the **Select** combo box with options for all widgets objects available.
The widget will be placed at the **top** or **bottom** of the screen (**right** or **left** for landscape screens) according to the **Position** radio button. The **size** is calculated as a percentage of the larger side (height on portrait, width on landscape). The widget can be placed **Beside the stage** or **On top of stage**. The stage is the area of the screen used to display the scheduled content. If the widget is set to be beside the stage, the latter is resized. If the widget is set to be on top of stage and **transparent**, the background or the stage will be visible through it. If an external data source is supported, the corresponding URL is set using the **XML** field.

Combinations
In the following images are shown the possible combinations of settings for ticker (in red) and widgets (in blue) for portrait and landscape screens:

Landscape screen:



Portrait screen:



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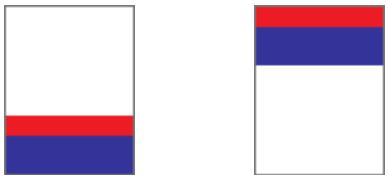
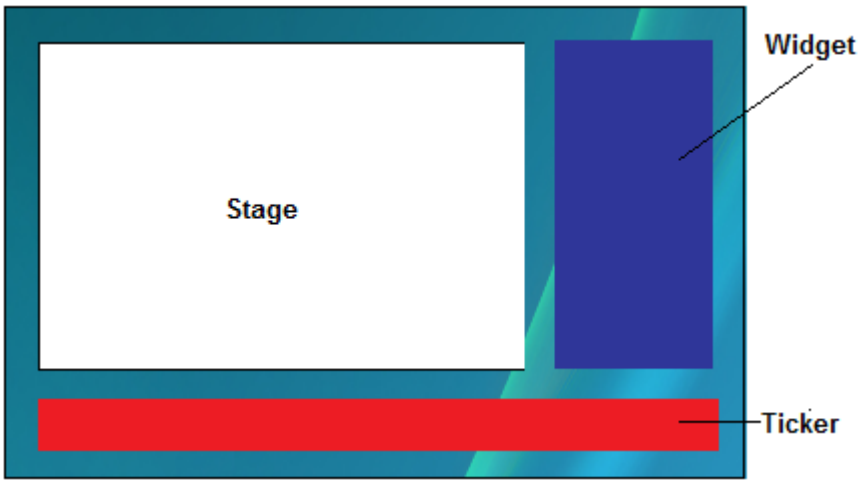


The white area (stage) is available for the scheduled clips. The stage resize itself according to the size of ticker and widget if they are set to be beside the stage.

An usage example of layout with background with border and ticker and widget opaque and beside the stage is shown here:



At the lower bottom of the page, the following buttons are available:

1. **Cancel:** goes back to the summary leaving the record unchanged.
2. **New:** clears all fields and prepares for a new record creation.
3. **Save**: This button is enabled only if there is unsaved data. Clicking on it the data is saved and a label showing the last change date and time is shown.
4. **Publish**: if enabled by the user role, makes the last changes available to the remote player machines.
5. **Delete:** upon confirmation, this button deletes the current record. The record will not be deleted if associated to other objects.
6. **Scroll to first (<<)** and **to last record (>>)**
7. **Scroll to previous record (<)** or **next record (>)**
8. At the right of the buttons is shown the number of the current record along with the total number of records (**record no./record total**).
9. The icon indicates that there are unpublished changes.To make the last changes available to the player machines a publishing is needed.

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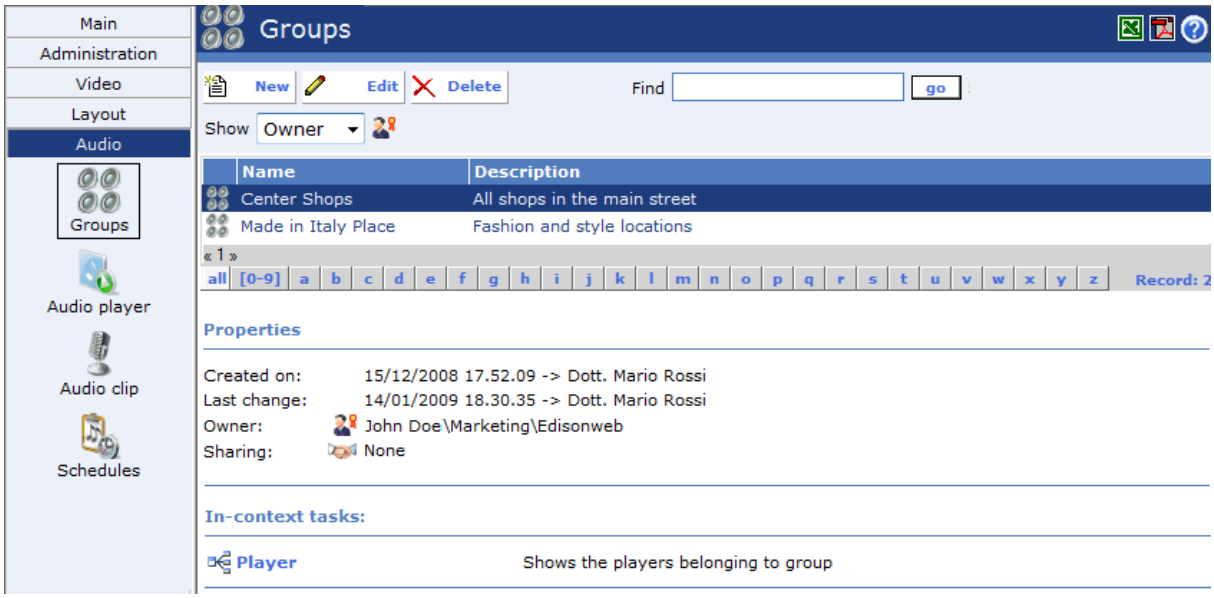
5 Audio

The management of a network of display involves all activities needed to control audio players, create contents and schedule the playlist.

5.1 Groups

Groups are sets of players used to simplify the scheduling processes for involving sets of players sharing a common characteristic.



It is possible to create, retrieve, update and delete a group. Moreover, using the in-context tasks it is possible to display the lists of all **players** belonging to the selected group.

1. To **create** a new record, click on the **New** button and fill the detail page shown.
2. To **update** an existing record, select the desired record from the list and click on the **Edit** button. An editable detail page is shown.
3. To **delete** a record, select the desired record from the list and click on the **Delete** button.

Note: If a player is associated to the selected group the deletion is not possible. You have to remove all relationships first.

The following functions are provided to help you select and search the records:

Find: Performs a search, looking for the text in the box within the record fields. The search is started after pressing the **go** button.

Alphabetic buttons
All: All records are shown
[0-9]: Only the records with the value of the first column starting with a number are shown.
[a,b...]: Only the records with the value of the first column starting with the selected letter are shown.
Paging: Using the **<<** (previous page) and **>>** (next page) it is possible to scroll through the pages if they exceed the maximum number of records displayed in single page..

Display filter
The options available in the **Show** combo box change following the privileges grant by the user roles. The **Shared** option is always visible, the other available options are:

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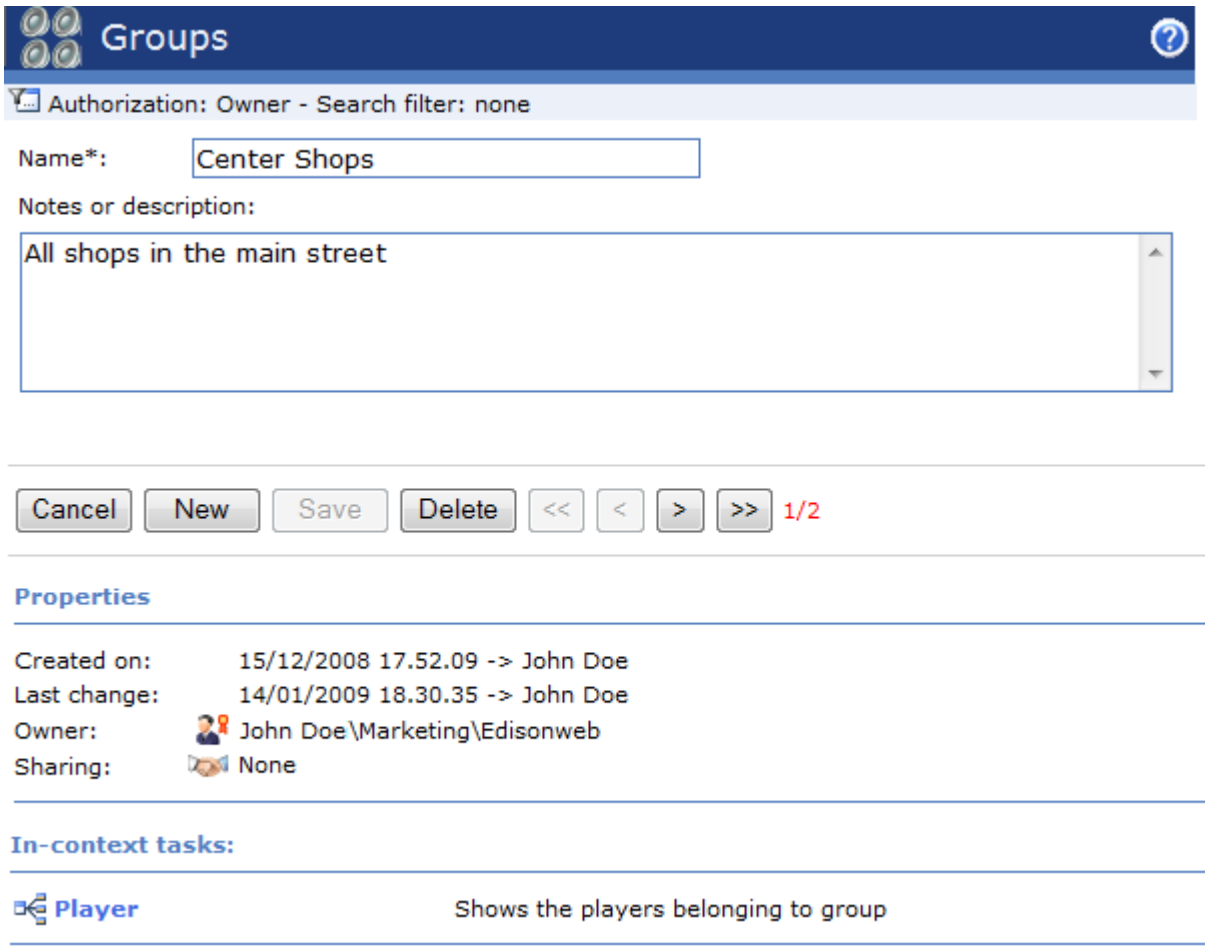
1. **Owner:** All records owned by the current user are shown.
2. **Service**: All records owned by users belonging to current user's service are shown
3. **Area**: All records owned by users belonging to current user's area are shown
4. **All**: All records are shown
5. **Shared**: All records shared by other users are shown. The additional privileges for record change, deletion and in-context task availability are grant by the record owner.

Group details

The detail page for the selected object contains the record fields, the in-context tasks and the scroll buttons.
The record list available is shaped by the selections and filters applied to the summary. The active filters are shown below the title, at the right of the icon.

The **Name** field is required, as well as all fields marked with an * (asterisk).
The **Notes or description** field is optional.



At the lower bottom of the page, the following buttons are available:
1. **Cancel:** goes back to the summary leaving the record unchanged.
2. **New:** clears all fields and prepares for a new record creation.
3. **Save**: This button is enabled only if there is unsaved data. Clicking on it the data is saved and a label showing the last change date and time is shown.
4. **Delete:** upon confirmation, this button deletes the current record. The record will not be deleted if associated to other objects.
5. **Scroll to first (<<)** and **to last record (>>)**
6. **Scroll to previous record (<)** or **next record (>)**

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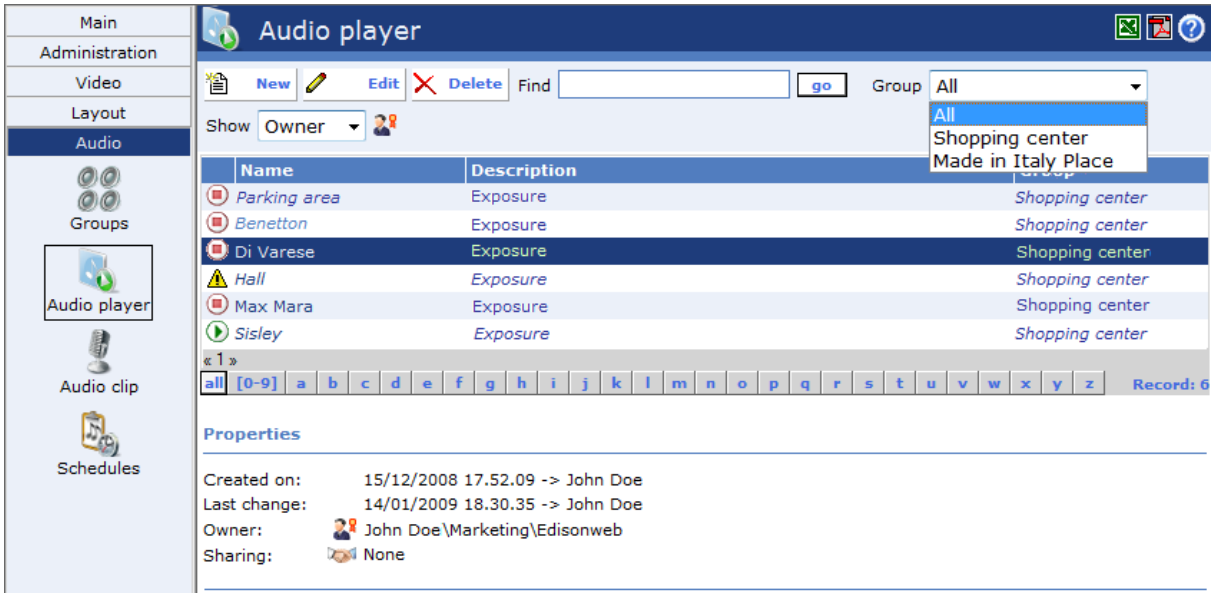
7. At the right of the buttons is shown the number of the current record along with the total number of records (**record no./record total**).

5.2 Audio Player

The players are remote devices, connected to a monitor/TV screen or with an integrated display, playing audio/video content (clips) and an independent audio soundtrack.
A player can be used to play audio only (eg. in-store radios). In the case of mixed use priority will be given to the audio schedule and the audio soundtrack of the video clips will be muted. Every player belongs to a group, a logic set of player. It is possible to register, display and change the player settings using the platform.
The player configuration must be done **after** the its registration on the Web Signage platform.



It is possible to create, retrieve, update and delete a player.

1. To **create** a new record, click on the **New** button and fill the detail page shown.
2. To **update** an existing record, select the desired record from the list and click on the **Edit** button. An editable detail page is shown.
3. To **delete** a record, select the desired record from the list and click on the **Delete** button.

The following functions are provided to help you select and search the records:
Find: Performs a search, looking for the text in the box within the record fields. The search is started after pressing the **go** button.
Group: Is a drop down list containing the list of all groups and the option *All.* You can use it to filter the list showing all records (All) or all records belonging to a specific group.

Alphabetic buttons
All: All records are shown
[0-9]: Only the records with the value of the first column starting with a number are shown.
[a,b...]: Only the records with the value of the first column starting with the selected letter are shown.
Paging: Using the **<<** (previous page) and **>>** (next page) it is possible to scroll through the pages if they exceed the maximum number of records displayed in single page..

Display filter
The options available in the **Show** combo box change following the privileges grant by the user roles. The **Shared** option is always visible, the other available options are:
1. **Owner:** All records owned by the current user are shown.

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2. **Service**: All records owned by users belonging to current user's service are shown
3. **Area**: All records owned by users belonging to current user's area are shown
4. **All**: All records are shown
5. **Shared**: All records shared by other users are shown. The additional privileges for record change, deletion and in-context task availability are grant by the record owner.

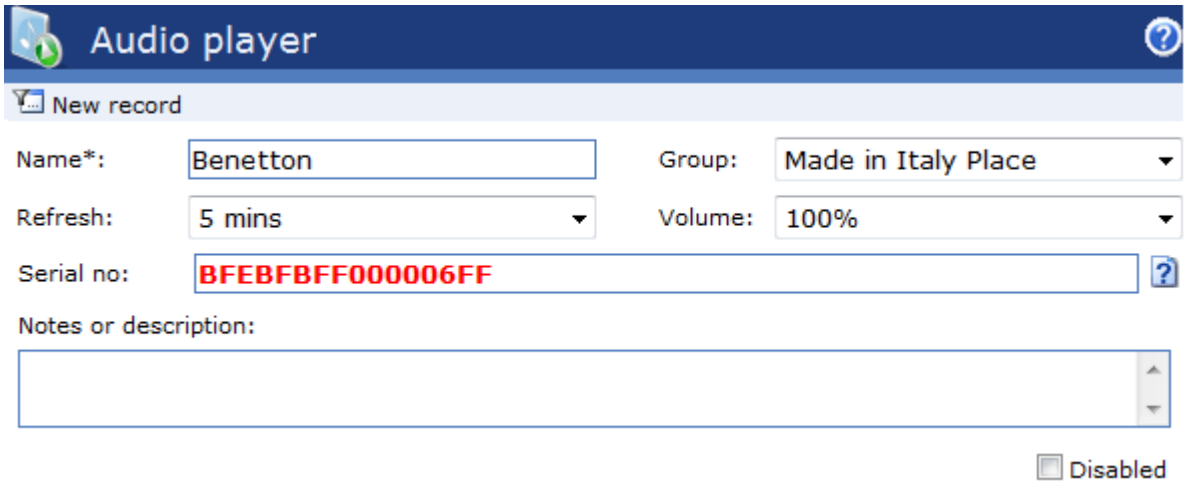
Meaning of the icons shown in the player list
As well as in the start page, there are four icons used to display the player status:
Indicates that the player is active, meaning that a connection has been established with the platform within the update interval set in the detail page.
Indicates that the player is not connected, meaning that a connection has not been established with the platform within the update interval set in the detail page.
Indicates that the player is not activated yet or that has been disabled.
Indicates that the player is on stand-by as programmed.

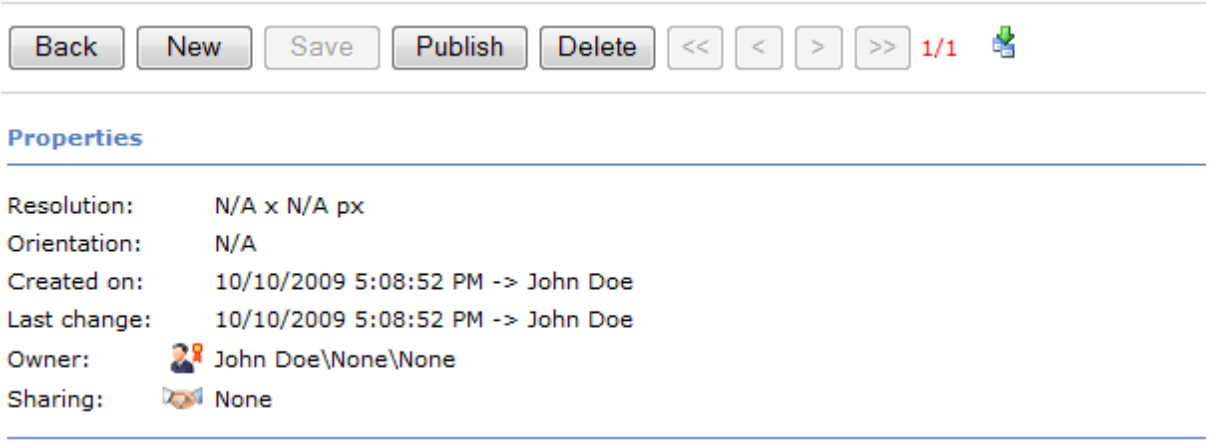
Note: A player with the name shown in italics indicates that its configuration has been changed and not published yet.

Player details

The detail page for the selected object contains the record fields, the in-context tasks and the scroll buttons.
The record list available is shaped by the selections and filters applied to the summary. The active filters are shown below the title, at the right of the icon.

The **Name** field is required and is used to identify the Bluetooth sender during a connection with a mobile device (Windows XP only).
The **Notes or description** field is optional..
The **Group** list box is used to set the group the player belongs to. In order to create a player at least one group is required.
The **Refresh** list box is used to set the refresh interval used by the player while checking for schedule or content changes. The update interval spans from 5 minutes to 24 hours.
The **Volume** list box is used to set the audio volume of the clip soundtrack. The volume spans from 0% (disabled) to 100% (the clip's design volume).





At the lower bottom of the page, the following buttons are available:

1. **Cancel:** goes back to the summary leaving the record unchanged.
2. **New:** clears all fields and prepares for a new record creation.
3. **Save**: This button is enabled only if there is unsaved data. Clicking on it the data is saved and a label showing the last change date and time is shown.
4. **Publish**: if enabled by the user role, makes the last changes available to the remote player machine.
5. **Delete:** upon confirmation, this button deletes the current record. The record will not be deleted if associated to other objects.
6. **Scroll to first (<<)** and **to last record (>>)**
7. **Scroll to previous record (<)** or **next record (>)**
8. At the right of the buttons is shown the number of the current record along with the total number of records (**record no./record total**).
9. The icon indicates that there are unpublished changes.To make the last changes available to the player machine a publishing is needed.

5.3 Audio clip

Audio clips are MP3 files loaded into the platform. Audio clips are the building block of the audio schedule and are performed sequentially from by the player.

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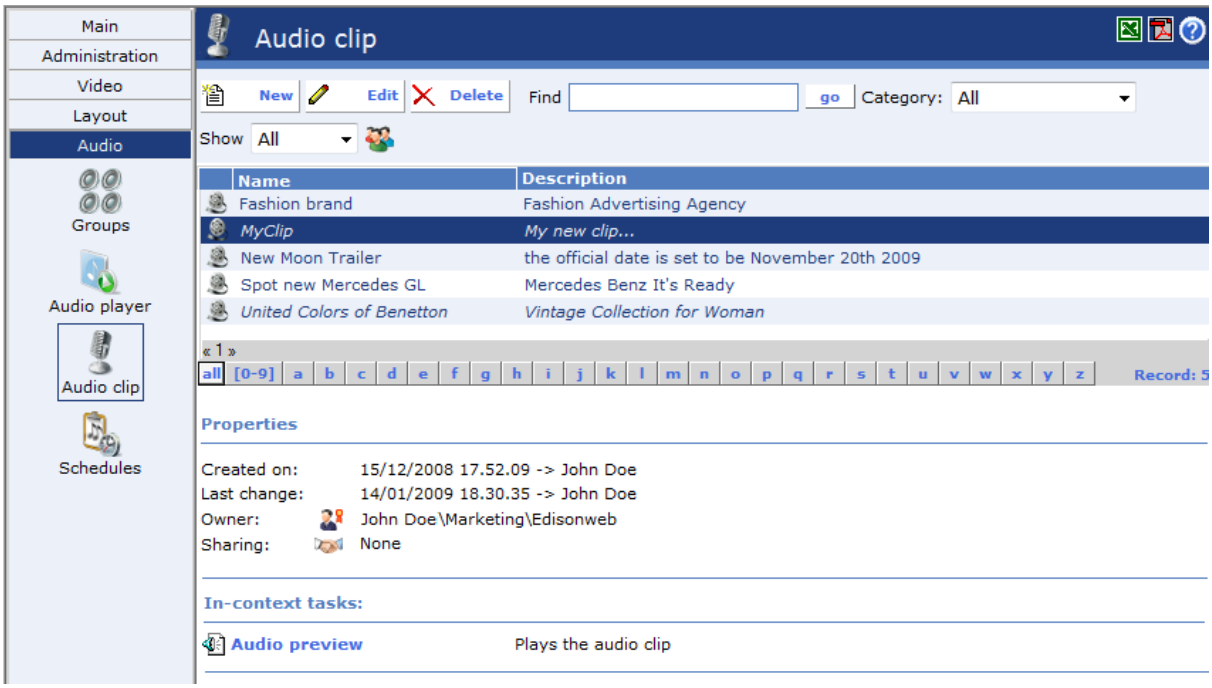

It is possible to create, retrieve, update and delete a clip.

1. To **create** a new record, click on the **New** button and fill the detail page shown.
2. To **update** an existing record, select the desired record from the list and click on the **Edit** button. An editable detail page is shown.
3. To **delete** a record, select the desired record from the list and click on the **Delete** button.

The following functions are provided to help you select and search the records:
Find: Performs a search, looking for the text in the box within the record fields. The search is started after pressing the **go** button.
Category: Is a drop down list containing the list of all clip categories and the option *All.* You can use it to filter the list showing all records (All) or all records belonging to a specific category.

Alphabetic buttons
All: All records are shown
[0-9]: Only the records with the value of the first column starting with a number are shown.
[a,b...]: Only the records with the value of the first column starting with the selected letter are shown.
Paging: Using the **<<** (previous page) and **>>** (next page) it is possible to scroll through the pages if they exceed the maximum number of records displayed in single page..

Display filter
The options available in the **Show** combo box change following the privileges grant by the user roles. The **Shared** option is always visible, the other available options are:
1. **Owner:** All records owned by the current user are shown.
2. **Service**: All records owned by users belonging to current user's service are shown
3. **Area**: All records owned by users belonging to current user's area are shown
4. **All**: All records are shown
5. **Shared**: All records shared by other users are shown. The additional privileges for record change, deletion and in-context task availability are grant by the record owner.

The **Audio preview** in-context task can be used to listen the clip before publishing.

Clip details
The detail page for the selected object contains the record fields, the in-context tasks and the scroll buttons.
The record list available is shaped by the selections and filters applied to the summary. The active

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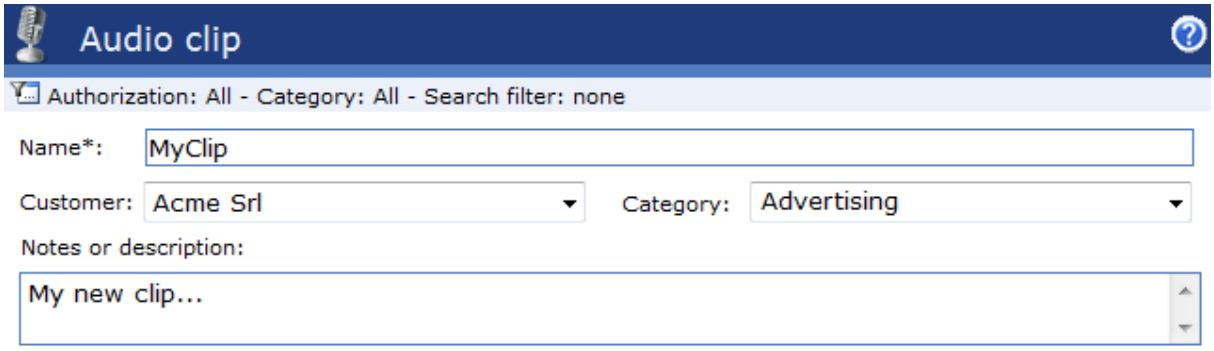
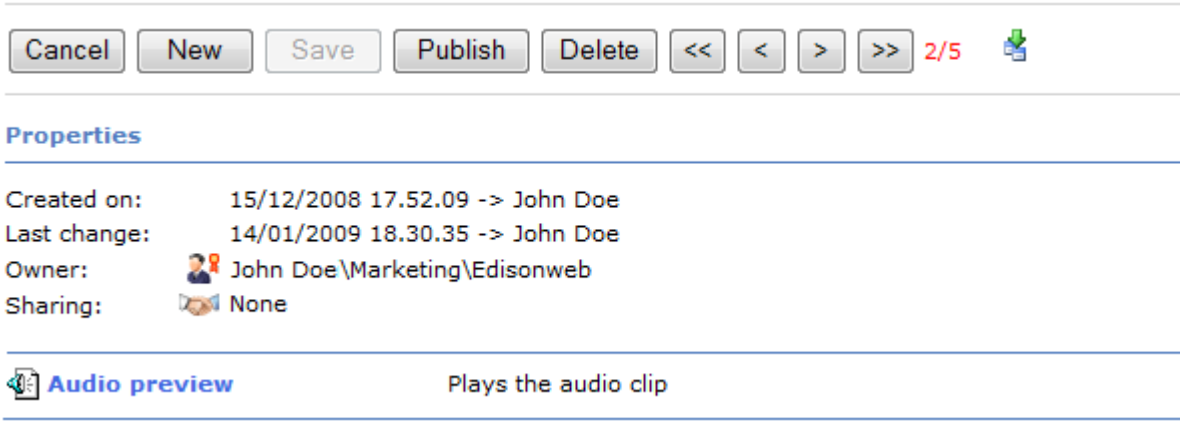
filters are shown below the title, at the right of the icon.

The **Name** field is required and it's used to identify a clip within a schedule.
The **Customer** list box is used to associate a clip with a customer. It is used to generate customer specific reports.
The **Category** list box is used to associate a clip with its category.
The **Notes or description** field is optional.



Selezione file
To select the audio file for the clip, click on **Browse**. Click on **Load** to confirm your selection. An audio clip has always the mp3 extension.



At the lower bottom of the page, the following buttons are available:
1. **Cancel:** goes back to the summary leaving the record unchanged.
2. **New:** clears all fields and prepares for a new record creation.
3. **Save**: This button is enabled only if there is unsaved data. Clicking on it the data is saved and a label showing the last change date and time is shown.
4. **Publish**: if enabled by the user role, makes the last changes available to the remote player machine.
5. **Delete:** upon confirmation, this button deletes the current record. The record will not be deleted if associated to other objects.
6. **Scroll to first (<<)** and **to last record (>>)**
7. **Scroll to previous record (<)** or **next record (>)**
8. At the right of the buttons is shown the number of the current record along with the total number of records (**record no./record total**).
9. The icon indicates that there are unpublished changes.To make the last changes available to the player machine a publishing is needed.

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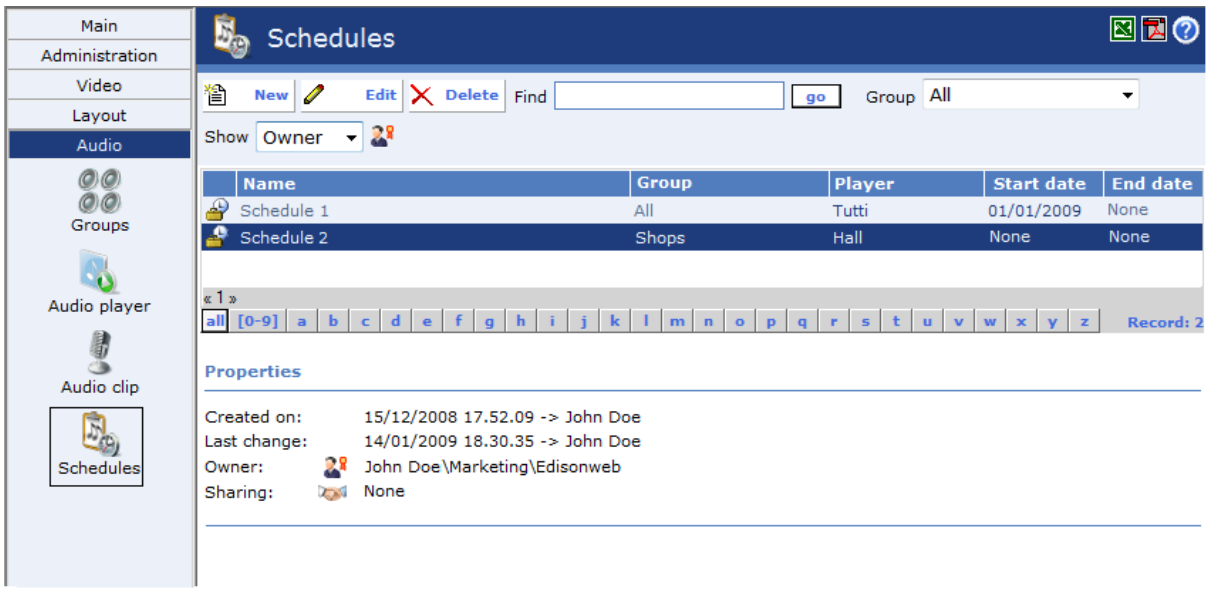
5.4 Schedules

A schedule is basically a list of clips with a validity interval and a programming for every time slot. Every clip has its own position, length and number of loops within the programming.
A schedule can be applied to a single player or to a group.



It is possible to create, retrieve, update and delete a schedule.

1. To **create** a new record, click on the **New** button and fill the detail page shown.
2. To **update** an existing record, select the desired record from the list and click on the **Edit** button. An editable detail page is shown.
3. To **delete** a record, select the desired record from the list and click on the **Delete** button.

The following functions are provided to help you select and search the records:
Find: Performs a search, looking for the text in the box within the record fields. The search is started after pressing the **go** button.
Group: Is a drop down list containing the list of all groups and the option *All.* You can use it to filter the list showing all records (All) or all records belonging to a specific group.

Alphabetic buttons
All: All records are shown
[0-9]: Only the records with the value of the first column starting with a number are shown.
[a,b...]: Only the records with the value of the first column starting with the selected letter are shown.
Paging: Using the **<<** (previous page) and **>>** (next page) it is possible to scroll through the pages if they exceed the maximum number of records displayed in single page..

Display filter
The options available in the **Show** combo box change following the privileges grant by the user roles. The **Shared** option is always visible, the other available options are:
1. **Owner:** All records owned by the current user are shown.
2. **Service**: All records owned by users belonging to current user's service are shown
3. **Area**: All records owned by users belonging to current user's area are shown
4. **All**: All records are shown
5. **Shared**: All records shared by other users are shown. The additional privileges for record change, deletion and in-context task availability are grant by the record owner.

Schedule detail

The detail page for the selected object contains the record fields, the in-context tasks and the scroll buttons.

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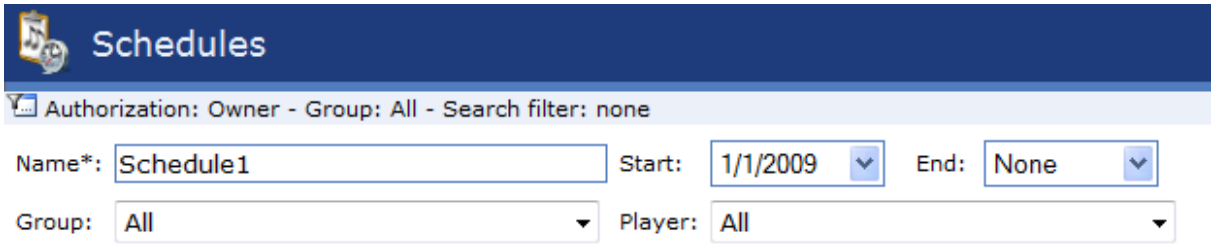
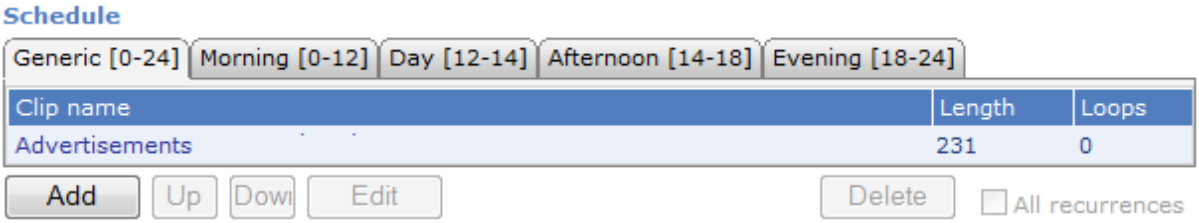
The record list available is shaped by the selections and filters applied to the summary. The active filters are shown below the title, at the right of the icon.

The **Name** field is required and it's used to identify a schedule.
The optional **Start date** is used to define when the schedule will start to be available to the players. If not supplied, the schedule will be active upon publishing.
The optional **End date** is used to define when the schedule will be no more available to the players. If not supplied, the schedule will be always available.
The **Group** list box is used to associate a schedule with a player group.
The **Player** list box is used to associate a schedule to a single player belonging to the selected group. If Group is set to All, then All players is the only option



Programming
The program contains a list of clips that will be used by the player in a time slot. There is a programming for 4 time slots. An additional generic time slot covers the whole day and it is used to program the clips that will be played regardless of time. The programming will be merged to create the appropriate playlist for each time. The number of schedules is unlimited and if several schedules overlap on the same time slot the playlists will merge.



Every clip can be moved **up** and **down** or **deleted**. The **All recurrences** check box is useful if all occurrences of a clip need to be removed from the time slot.
The following options can be set for every clip:

- Loops (number of loops, the first execution is excluded)
- Length (in seconds, calculated at file load)

Adding and changing clips
The **Add** button opens the Clip selection window, listing all clips available along with their previews. The same window can be used to change a clip.

At the lower bottom of the page, the following buttons are available:

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1. **Cancel:** goes back to the summary leaving the record unchanged.
2. **New:** clears all fields and prepares for a new record creation.
3. **Save**: This button is enabled only if there is unsaved data. Clicking on it the data is saved and a label showing the last change date and time is shown.
4. **Publish**: if enabled by the user role, makes the last changes available to the remote player machines.
5. **Delete:** upon confirmation, this button deletes the current record. The record will not be deleted if associated to other objects.
6. **Scroll to first (<<)** and **to last record (>>)**
7. **Scroll to previous record (<)** or **next record (>)**
8. At the right of the buttons is shown the number of the current record along with the total number of records (**record no./record total**).
9. The icon indicates that there are unpublished changes.To make the last changes available to the player machines a publishing is needed.

6 Publishing

Player settings, contents (clips) and schedules are given to the player machines in a controlled way through a publishing process.
This makes possible to delegate the content production and send to the player data and content checked carefully.

6.1 Player

Every change to the configuration is sent to the player after the publishing. The player will connect to the platform according to its refresh interval and retrieve its configuration along with all changes to the schedule. All contents unavailable for the updated schedule will be downloaded immediately.

The Player Publishing page will show the following information:

Pending player configuration changes
This list shows all last modified players and enables to batch publishing. It is possible to select as many player as needed and clicking on the Send changes button the new settings are published. Published players will be moved to the waiting list.

List of changes waiting for propagation
After publishing, when the player connects to the platform according to its refresh interval, the new settings are applied. All changes waiting for a player connection are shown in this list.

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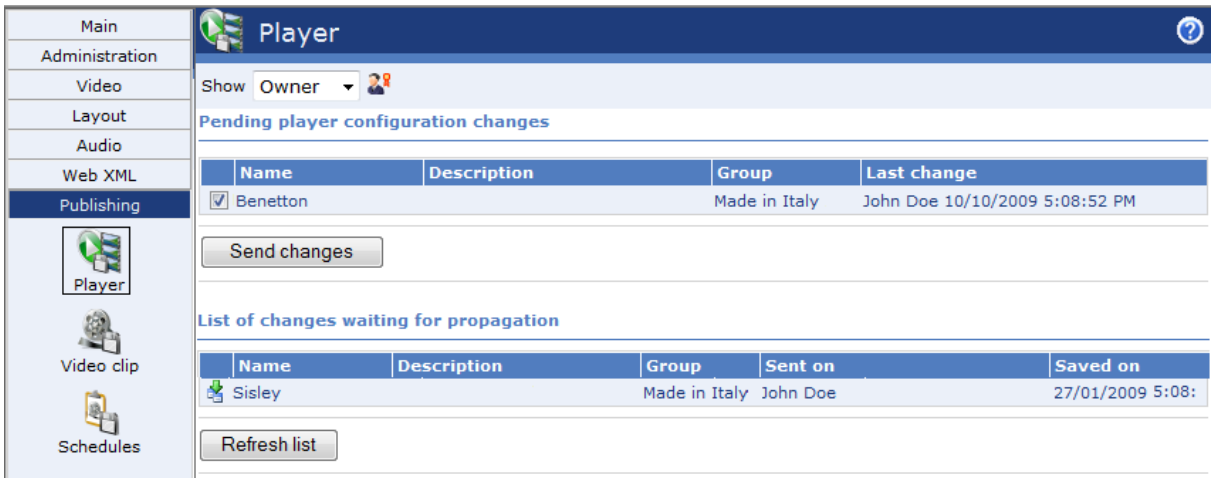

The player list is filtered by the options available in the **Show** combo box which change following the privileges grant by the user roles.

1. **Owner:** All records owned by the current user are shown.
2. **Service**: All records owned by users belonging to current user's service are shown
3. **Area**: All records owned by users belonging to current user's area are shown
4. **All**: All records are shown

6.2 Clip

Every clip change is sent to the player after its publishing. A single clip can be published using the **Publish** button of its detail page. Many clips can be published at one time using the Clip Publishing page.

The following two lists are shown:

Unpublished changes
This list shows all last modified clips and enables to batch publishing. It is possible to select as many clips as needed and clicking on the **Publish** changes are sent to the player network. Published clips will be moved to the waiting list.

Last published clips
After publishing, when the player connects to the platform according to its refresh interval, all new and updated clips are downloaded.
This list shows up to 50 last published clips.

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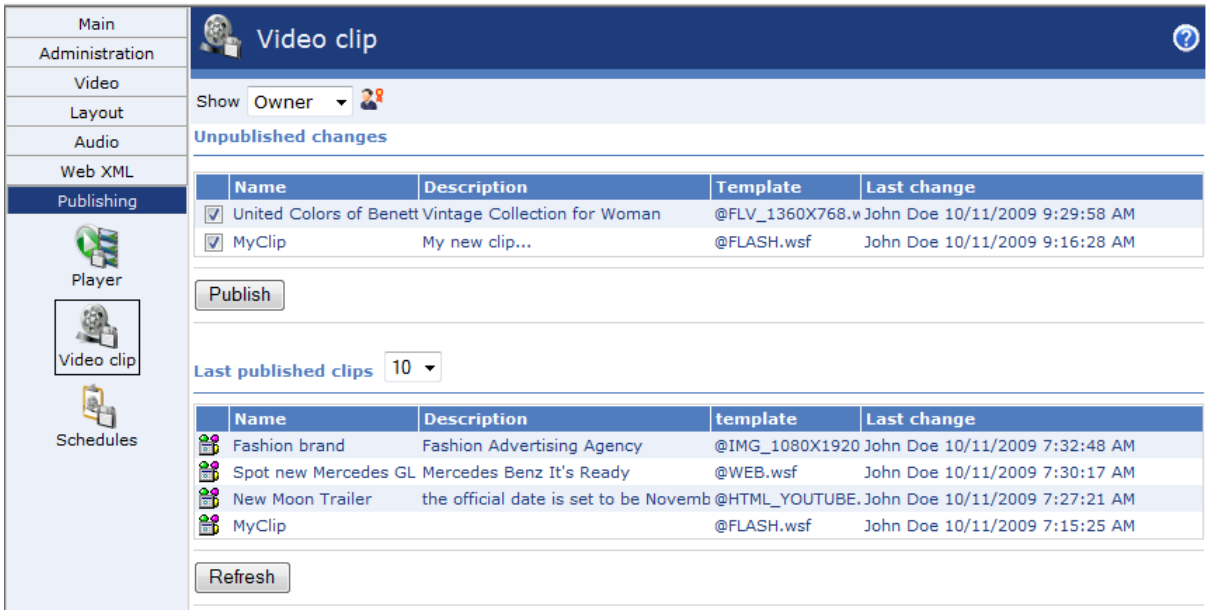

The clip list is filtered by the options available in the **Show** combo box which change following the privileges grant by the user roles.

1. **Owner:** All records owned by the current user are shown.
2. **Service**: All records owned by users belonging to current user's service are shown
3. **Area**: All records owned by users belonging to current user's area are shown
4. **All**: All records are shown

6.3 Schedules

Every schedule change is sent to the player after its publishing. A single schedule can be published using the **Publish** button of its detail page. Many schedules can be published at one time using the Schedules Publishing page.

The following two lists are shown:

Modifiche palinsesti in sospeso
This list shows all last modified schedules and enables to batch publishing. It is possible to select as many clips as needed and clicking on the **Publish** changes are sent to the player network. Published clips will be moved to the waiting list.

Ultimi palinsesti pubblicati
Successivamente alla pubblicazione delle modifiche, i player riceveranno le modifiche durante le fasi di aggiornamento, ognuno in base alla propria frequenza. In questo elenco sarà possibile visualizzare lo storico delle ultime pubblicazioni, sino ad un massimo di 50.

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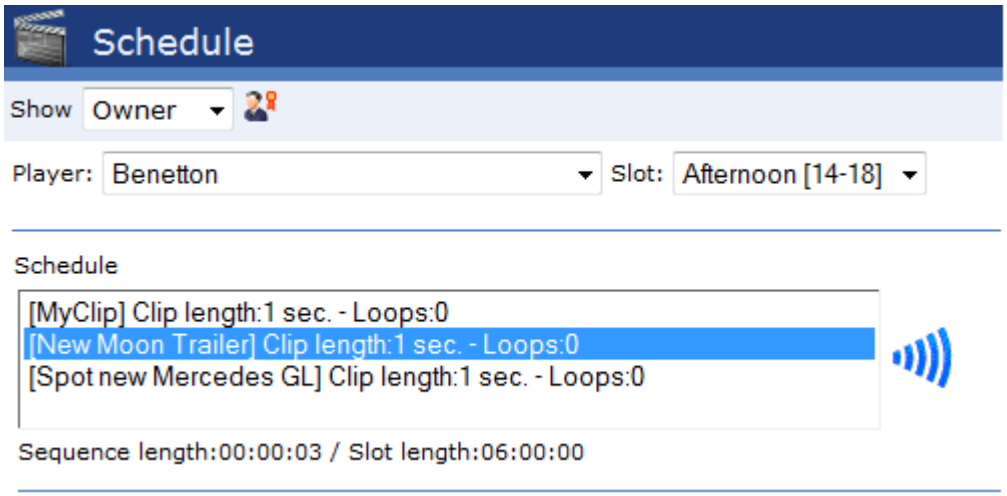
The schedule list is filtered by the options available in the **Show** combo box which change following the privileges grant by the user roles.
1. **Owner:** All records owned by the current user are shown.
2. **Service**: All records owned by users belonging to current user's service are shown
3. **Area**: All records owned by users belonging to current user's area are shown
4. **All**: All records are shown

7 Analysis

The analysis tools allow you to simulate the behavior of the player and to monitor the clip passages. This last feature is useful for billing purposes.

7.1 Schedule

Selecting a **player** and a **time slot**, the list of clips programmed on that player using the current schedule are shown.



The Schedule list contains the clip name between square brackets, the clip length and the number of loops. A blue animation indicates that a Bluetooth content has been published along with the clip. At

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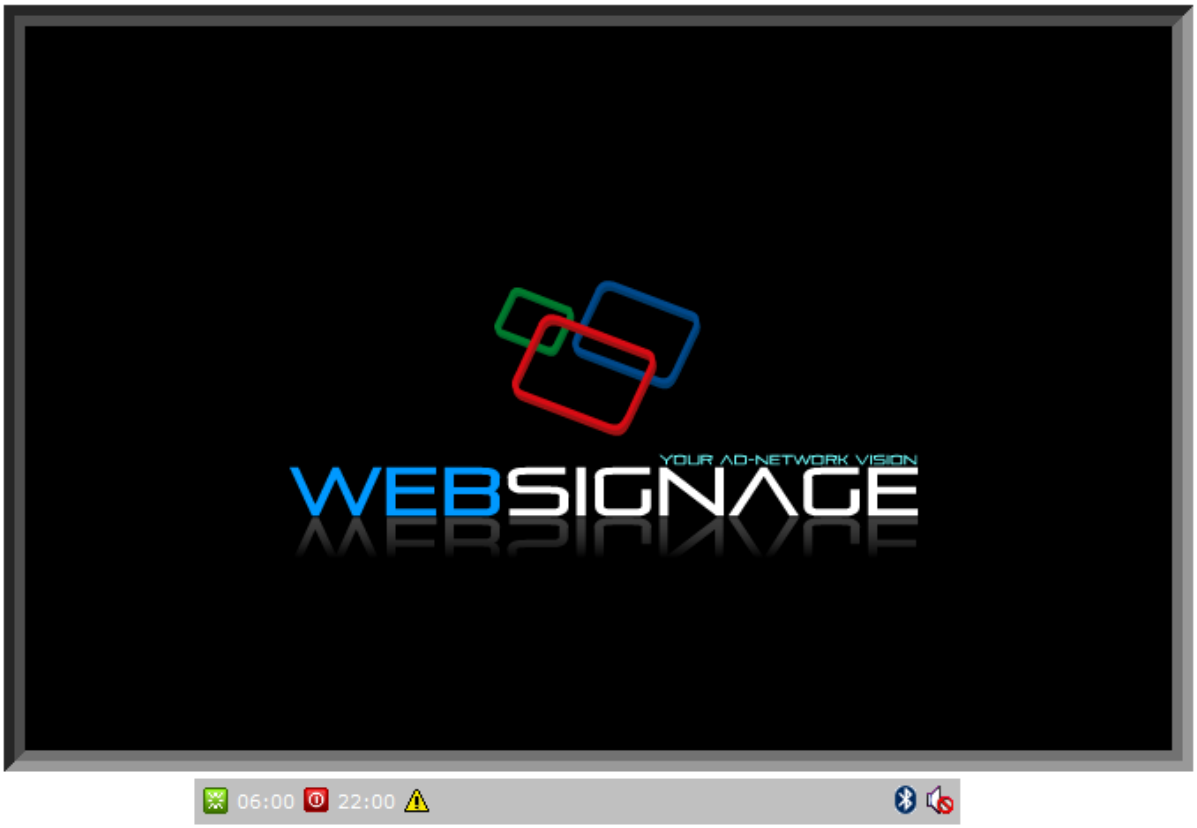
the bottom of the list the sequence and time slot lengths are shown. These figures are useful to check if the scheduled content filled the slot.
Selecting a clip on the list, a preview within a monitor with the same orientation of the player. The first image shown in this area is a screenshot. The screenshot is updated on every player connection.



Player properties

Refresh every:	5 min.
Last notification:	28/01/2009 13.00.17 (125 min.)
Resolution:	1280 x 1024px
Orientation:	Landscape

At the bottom of the simulated display the following information is shown:
Player power on time. If not set it will appear as ##:##
Player power off time. If not set it will appear as ##:##
Indicate the player statusas explained in the Video player page.
Indicate the Bluetooth peripheral status (unavailable/not active, active).
Indicates that the audio has been disabled, while indicates that the audio is enabled. The volume is shown beside as a percentage (0-100%).

Below this information the main player properties are summarized:
- Refresh interval
- Time of last connection and how many minutes ago it happened
- Screen resolution
- Screen orientation

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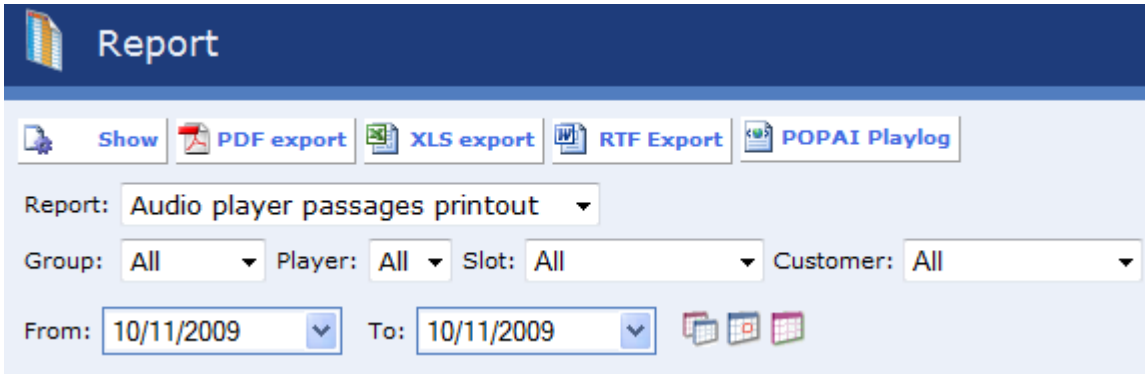
7.2 Reports

Several kinds of records and printouts are available.
To display a report, select the report using the **Report** combo box. The **Group, Player and Customer** combo boxes can be used to show data related to a smaller portion of the network or to display the information for a single customer.
Using the **From, To** and **Slot** options it is possible to filter the results to a specific time frame.



Clicking on the **Show** button the report is shown below the control bar. All reports are exportable in the **PDF**, **XLS** and **RTF** formats.
All printouts are exportable as a standard **POPAI** XML Playlog.

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