

Plugin *RoomSharing*

Documentation

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Changelog

Version 1.0, 21.12.2015

SW

- created

Table of contents

1	Introduction	4
2	Feature Overview	4
3	Installation	4
4	Usage of the Plugin	5
4.1	Create object	5
4.2	Settings	5
4.3	Floor plans	5
4.4	Rooms	5
4.5	Attributes	6
4.5.1	Room attributes	7
4.5.2	Booking attributes	7
4.6	Appointments	7
4.6.1	Add booking	7
4.7	Import	9
4.8	Privileges	10
4.8.1	Create a class	10
4.8.2	Permissions	10

1 Introduction

RoomSharing adds a new ILIAS object "RoomSharing". This object allows you to manage rooms and book rooms by creating appointments. ILIAS users can be added as participants to an appointment.

2 Background

The Plugins has been written by a group of students at the Hochschule Bremen in Germany. After the project has been finished, the studer + raimann ag has been asked to maintain the code for future ILIAS Versions.

3 Feature Overview

PL-Version	Changes
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1.0.0	Create rooms
	Book rooms for your appointments and add participants
	Appointments support recurrence: Daily, Weekly or Monthly
	Custom attributes for rooms and bookings
	Privileges: Additional permissions allowing fine grained access control based on global roles

4 Installation

cd into your ILIAS root directory and execute the following commands:

```
mkdir -p Customizing/global/plugins/Services/Repository/RepositoryObject
cd Customizing/global/plugins/Services/Repository/RepositoryObject
git clone https://github.com/studer-raimann/RoomSharing.git
```

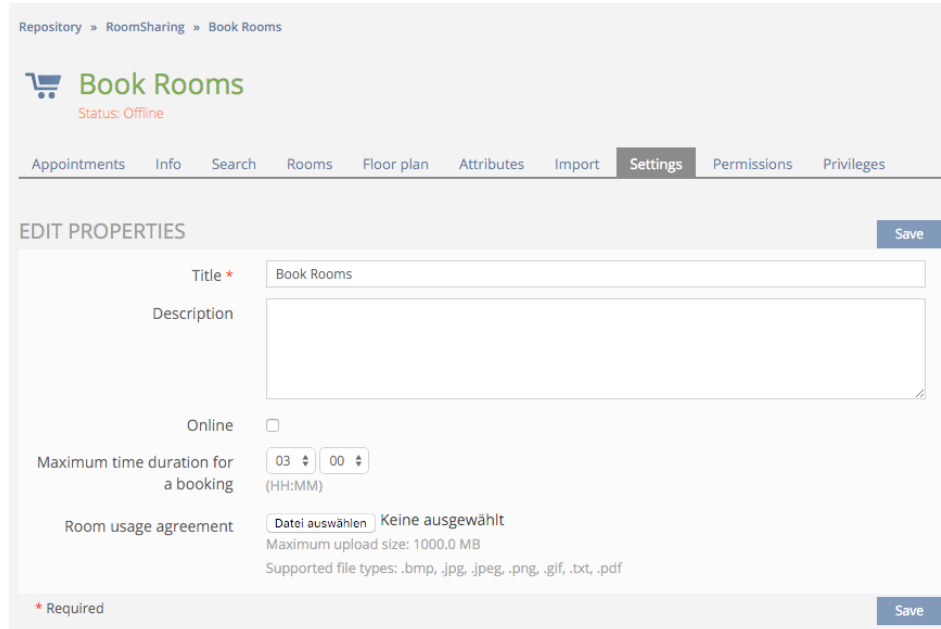
As ILIAS administrator, go to "Administration > Plugins" and install/activate the plugin.

5 Usage of the Plugin

5.1 Create object

Open the repository and navigate to the place where the new RoomSharing object should exist.
Create a new object of type “RoomSharing”, add a title and save.

5.2 Settings



In addition to the ILIAS standard settings, you can define the maximum time duration for a booking.

This restriction applies to all bookings defined within this object.

There's the possibility to upload a room usage agreement PDF file. If present, the user must agree to the agreement when creating an appointment.

5.3 Floor plans

In this section you can manage floor plans by setting a title and upload a plan picture. Any room can then reference one of the floor plans defined here.

5.4 Rooms

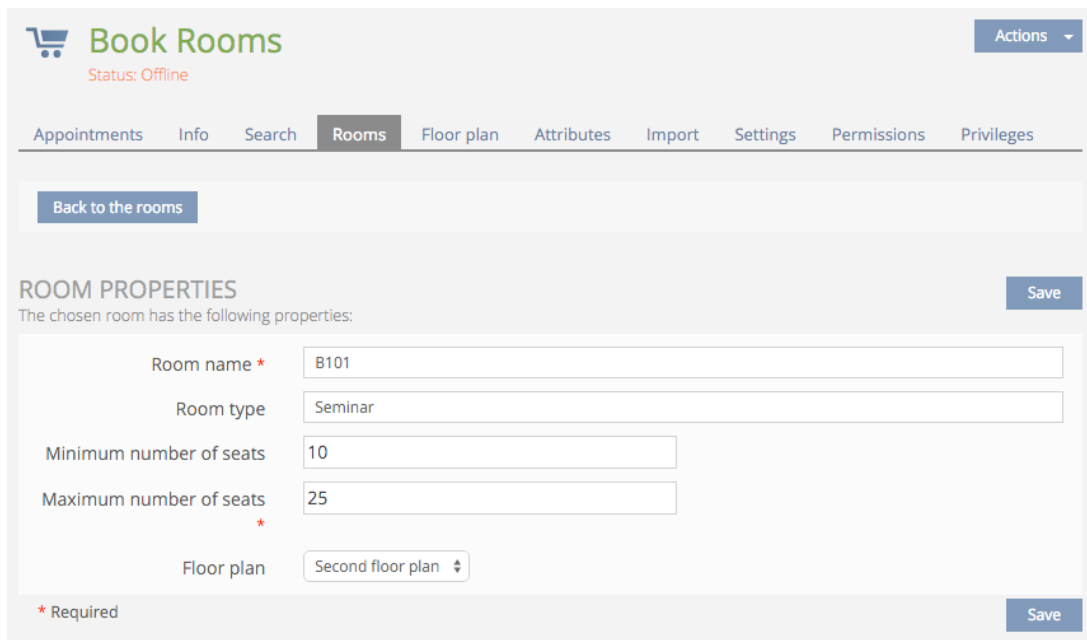
This section allows you to manage your room. Use the filter to search for a room. Possible actions for a room are:

- **Book:** Opens a search form, allowing you to check if this room is available for a given date and time range
- **Edit:** Edit the room
- **Delete:** Delete the room

Create a new room by clicking the button “Add Room” and add the following information:

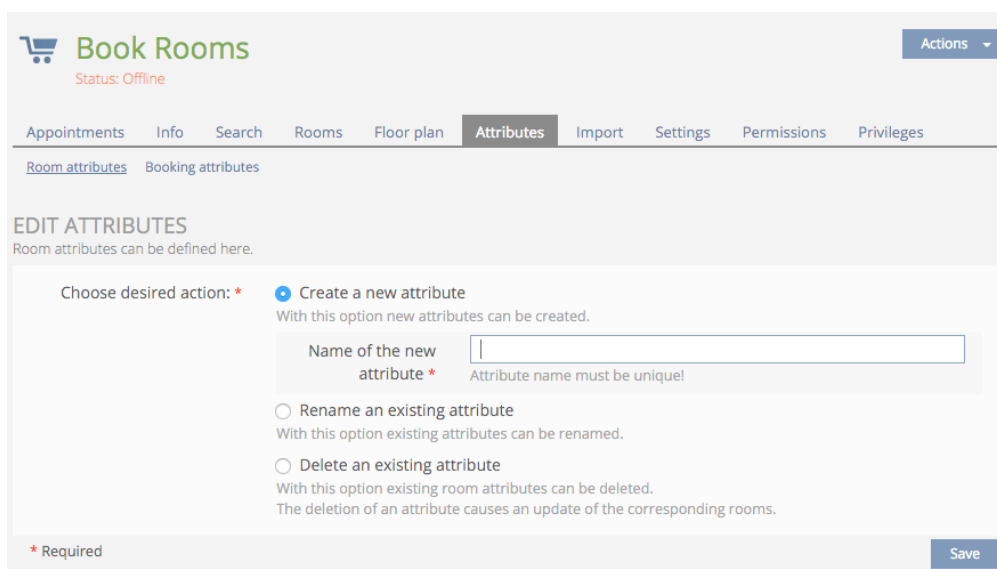
- Room name
- Room type (optional)
- Minimum number of seats (optional)
- Maximum number of seats
- Floor plan

In addition, if there exist any room attributes (see next chapter), these attributes can be set in a new section below the form. Note that at the moment, room attributes are restricted to integer values.



The screenshot shows the 'Book Rooms' application interface. At the top, there's a header with a shopping cart icon, the text 'Book Rooms', and 'Status: Offline'. A navigation bar includes links for Appointments, Info, Search, Rooms (active), Floor plan, Attributes, Import, Settings, Permissions, and Privileges. Below the navigation bar is a 'Back to the rooms' button. The main section is titled 'ROOM PROPERTIES' with a 'Save' button. It states 'The chosen room has the following properties:'. The form contains the following fields: 'Room name *' with value 'B101', 'Room type' with value 'Seminar', 'Minimum number of seats' with value '10', 'Maximum number of seats' with value '25', and 'Floor plan' with a dropdown menu showing 'Second floor plan'. A legend indicates '* Required'. There is another 'Save' button at the bottom right.

5.5 Attributes



The screenshot shows the 'Book Rooms' application interface for editing attributes. The navigation bar is the same as the previous screenshot, but the 'Attributes' link is active. Below the navigation bar, there are links for 'Room attributes' and 'Booking attributes'. The main section is titled 'EDIT ATTRIBUTES' with the text 'Room attributes can be defined here.'. It contains a form with the following elements: 'Choose desired action: *' with three radio button options: 'Create a new attribute' (selected), 'Rename an existing attribute', and 'Delete an existing attribute'. Below the 'Create a new attribute' option, there's a text input field for 'Name of the new attribute *' with a placeholder text 'Attribute name must be unique!'. Below the 'Rename an existing attribute' option, there's a text input field for 'Name of the existing attribute *'. Below the 'Delete an existing attribute' option, there's a text input field for 'Name of the existing attribute *'. A legend indicates '* Required'. There is a 'Save' button at the bottom right.

5.5.1 Room attributes

Room attributes can be filled out when creating/editing a room (see previous chapter). Those attributes are limited to integer values.

5.5.2 Booking attributes

Booking attributes can be filled out when creating/editing a booking.

5.6 Appointments

Manage existing appointments and create new bookings. Use the filter to find existing appointments.

BOOKINGS

Hide Filter

User

Room

Subject

Comment

Username

Room name

Subject

Comment

Apply Filter

Reset Filter

(1 - 5 of 5)

Rows ▾

Export ▾

Cancel

	Date	Room	Subject	Participants	Comment
<input type="checkbox"/>	<input type="checkbox"/> Mo., 28. Dec 2015, 00:00 - 15:00	B101	Introduction RoomSharing	Vorgesetzter 1, Stefan Wanzenried	<div>Edit</div> <div>Cancel</div>
<input type="checkbox"/>	<input type="checkbox"/> Mo., 04. Jan 2016, 00:00 - 15:00	B101	Introduction RoomSharing	Vorgesetzter 1, Stefan Wanzenried	<div>Edit</div> <div>Cancel</div>
<input type="checkbox"/>	<input type="checkbox"/> Mo., 11. Jan 2016, 00:00 - 15:00	B101	Introduction RoomSharing	Vorgesetzter 1, Stefan Wanzenried	<div>Edit</div> <div>Cancel</div>
<input type="checkbox"/>	<input type="checkbox"/> Mo., 18. Jan 2016, 00:00 - 15:00	B101	Introduction RoomSharing	Vorgesetzter 1, Stefan Wanzenried	<div>Edit</div> <div>Cancel</div>
<input type="checkbox"/>	<input type="checkbox"/> Mo., 25. Jan 2016, 00:00 - 15:00	B101	Introduction RoomSharing	Vorgesetzter 1, Stefan Wanzenried	<div>Edit</div> <div>Cancel</div>

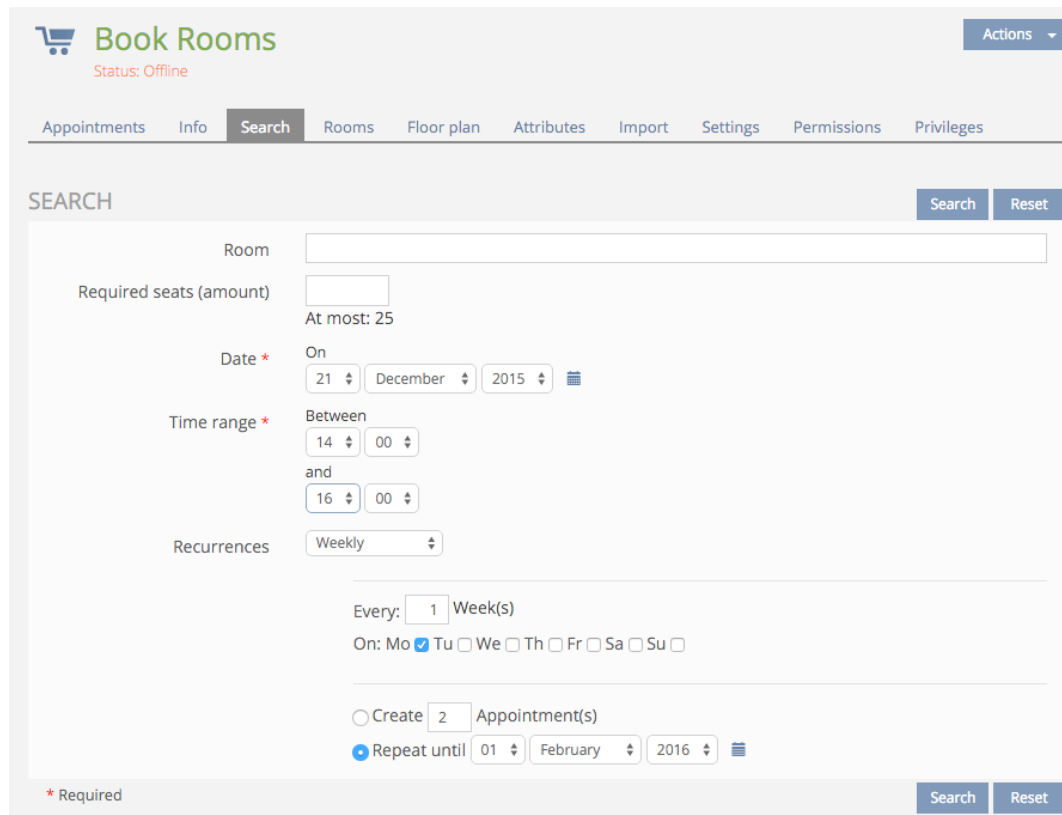
☐ Select All

Cancel

5.6.1 Add booking

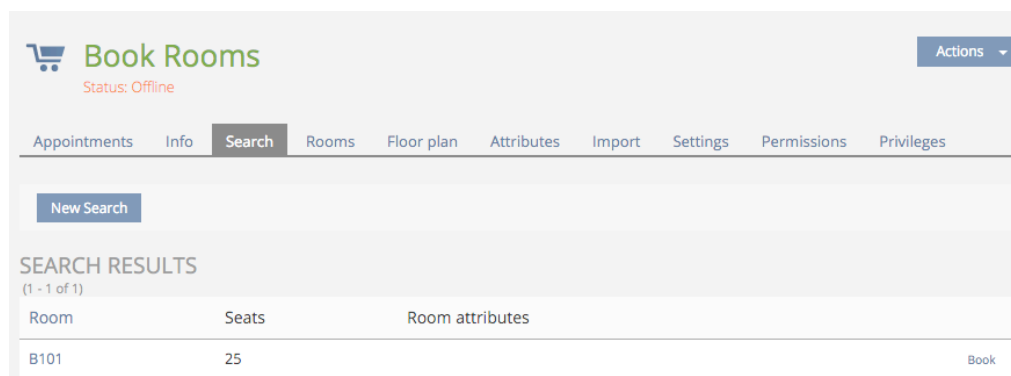
Clicking the button “Add booking” in the toolbar opens a search form, where you can search for free rooms according to the following constraints:

- Room: Enter the name of a room if you already know in which room the appointment takes place
- Required seats
- Date and time range
- Recurrence: Specify if your appointment is recurrent (daily, weekly or monthly)



The screenshot shows the 'Book Rooms' application interface. At the top, there's a header with the logo, status 'Offline', and an 'Actions' dropdown. Below is a navigation bar with tabs: Appointments, Info, Search (active), Rooms, Floor plan, Attributes, Import, Settings, Permissions, and Privileges. The main section is titled 'SEARCH' and contains several input fields: 'Room' (text input), 'Required seats (amount)' (text input with a hint 'At most: 25'), 'Date *' (calendar icon, dropdown for '21', 'December', '2015'), 'Time range *' (dropdowns for 'Between 14:00 and 16:00'), and 'Recurrences' (dropdown for 'Weekly'). Below these, there are options for 'Every: 1 Week(s)', 'On: Mo [checked] Tu We Th Fr Sa Su', and a section for 'Create 2 Appointment(s)' or 'Repeat until 01 February 2016'. At the bottom left, a note says '* Required'. At the bottom right, there are 'Search' and 'Reset' buttons.

Click search and check if any free rooms are available for your appointment.



The screenshot shows the 'Book Rooms' application interface after a search. The 'Search' tab is active. Below the navigation bar, there's a 'New Search' button. The main section is titled 'SEARCH RESULTS' with a subtitle '(1 - 1 of 1)'. Below this is a table with three columns: 'Room', 'Seats', and 'Room attributes'. The table has one row with the following data: 'B101', '25', and a 'Book' button. At the bottom right, there's a 'Book' button.

Room	Seats	Room attributes
B101	25	Book



Book the desired room by clicking “Book”. This opens a form where you can enter details about your appointment:

- Subject
- Comment
- Date/Time
- Recurrence
- Display username publicly for the booking
- Accept room usage agreement: This step is mandatory if there is a room usage agreement uploaded in the object settings.

BOOK: ROOM B101 Book


Subject *

Comment

Date/Time
From
21 ↓ December ↓ 2015 ↓ 
14 ↓ 00 ↓
(HH:MM)
to
21 ↓ December ↓ 2015 ↓ 
16 ↓ 00 ↓
(HH:MM)

Recurrences
Weekly ↓

Every: 1 Week(s)
On: Mo ☒ Tu ☐ We ☐ Th ☐ Fr ☐ Sa ☐ Su ☐

☐ Create 2 Appointment(s)
☒ Repeat until 01 ↓ February ↓ 2016 ↓ 

Display username publicly for the booking ☐

Accept room usage agreement * ☐ [Current room usage agreement](#)

PARTICIPANTS

Participants list + -
At most: 24


* Required Book

Add participants by entering valid ILIAS usernames. Start typing at least 3 letters from the users login, firstname or lastname and choose the appropriate user from the dropdown. All participants are notified by e-mail about the appointment.

Click "Book" to create the booking.

5.7 Import

The import supports importing data from a daVinci text file.

 **Book Rooms**
Status: Offline Actions

[Appointments](#) [Info](#) [Search](#) [Rooms](#) [Floor plan](#) [Attributes](#) **Import** [Settings](#) [Permissions](#) [Privileges](#)

IMPORT DAVINCI DATA Import

Upload daVinci text-file * Datei auswählen Keine ausgewählt
Maximum upload size: 1000.0 MB
Allowed file types: .txt

Import bookings ☐

Import rooms ☒

Default room capacity

* Required Import

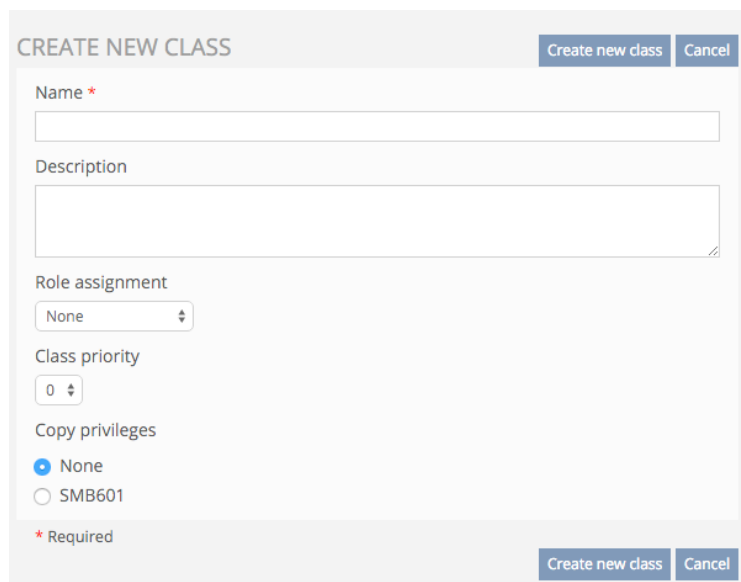
5.8 Privileges

Privileges offer additional permissions for a fine-grained access control on a RoomSharing object. Permissions are coupled to a “class”. A user belongs to a class depending on a global role, which is defined in a class. If the user is assigned to the global role, she is assigned to the class.

5.8.1 Create a class

Open “Privileges” and click on “Create new class”. Enter the following information:

- **Name**
- **Description**
- **Role Assignment:** Choose a global role. Users assigned to the role are assigned to the class.
- **Class priority:** If multiple classes are assigned to users, the one with the higher priority is applied
- **Copy privileges:** Copy permissions of another existing class



The screenshot shows a web form titled "CREATE NEW CLASS". At the top right are two buttons: "Create new class" and "Cancel". The form contains the following fields:

- Name ***: A text input field with a red asterisk indicating it is required.
- Description**: A larger text input field.
- Role assignment**: A dropdown menu currently showing "None".
- Class priority**: A numeric input field currently showing "0".
- Copy privileges**: Two radio buttons, "None" (which is selected) and "SMB601".

At the bottom left, there is a legend: "* Required". At the bottom right, there are two buttons: "Create new class" and "Cancel".

5.8.2 Permissions

The following permissions are available:

Floor plans

The privileges for the floor plans are listed here below.

☐ Access floor plans

☐ Create

☐ Edit

☐ Delete

☐ **Select All**

General Privileges

General privileges are listed here below.

☐ Access settings

☐ Access privileges

☐ Create class

☐ Edit class

☐ Delete class

☐ Edit privileges

☐ Lock privileges

☐ **Select All**

Appointments

Appointment-specific privileges, including the ones for the bookings and the participations, are listed

☐ Access appointments

☐ Access search

☐ Create, edit, cancel

☐ Add participant

☐ Recurring bookings

☐ Unlimited book time

☐ Look up non-public booking information

☐ Import of bookings from an external file

☐ Administrate attributes

☐ Cancel lower class priority

☐ Notification settings

☐ **Select All**

Rooms

Privileges for the rooms are listed here below.

☐ Access rooms

☐ Look up bookings

☐ Create

☐ Edit

☐ Delete

☐ Administrate attributes

☐ **Select All**