Farbweg 9 CH-3400 Burgdorf Tel. +41 31 972 52 22 Fax. +41 31 972 52 21

info@studer-raimann.ch

studer + raimann ag

# Plugin *LiveVoting*

# **Documentation**

Date of release	07.03.2017
Document version	2.2
Plugin version:	3.4.0
Author:	Fabian Schmid, studer + raimann ag

Farbweg 9 CH-3400 Burgdorf

Tel. +41 31 972 52 22 Fax. +41 31 972 52 21 info@studer-raimann.ch



# **Changes**

Version 1.0, 31.03.2015	fsx
	- created
Version 2.0, 09.03.2016	fsx
	- Updated for new release 3.0.0
Version 2.1, 13.10.2106	ns
	- updated for version 3.2.9
Version 2.2, 07.03.2017	ns
	- updated for version 3.4.0

Farbweg 9 CH-3400 Burgdorf

Tel. +41 31 972 52 22 Fax. +41 31 972 52 21 info@studer-raimann.ch



# **Table of contents**

Introduc	ction	5
Feature	overview	5
Installati	ion	6
4.1	Shortlink-Config	6
4.2	Configure Shortlink	6
4.3	Configuration on Multi-Client-Installations	7
4.4	Configuration when using symlinks	7
4.5	Configure voter update frequency	7
4.6	Configure plugin cache	8
4.7	Configure Results-API	8
Usage o	of the plugin	9
4.8	Create LiveVoting sessions	9
4.9	Add votings to the session	10
4.10	Starting a voting session	11
4.11	Accessing the Voting as Voter	12
4.12	Navigating as presenter	13
4.12	2.1 Freeze/Unfreeze	13
4.12	2.2 Show/Hide results	14
4.12	2.3 Fullscreen mode	14
4.13	Start new voting round	15
4.14	Presenter settings	15
4.14	4.1 Properties	15
4	14.1.1 Vote without Login	15
4	14.1.2 Voting History	16
4	.14.1.3 Show Attendees	16
4.14	4.2 Behaviour while navigating	17
4	.14.2.1 Frozen-State	17
4	.14.2.2 Show Results	17

# IT- and Learning-Solutions studer-raimann.ch

ISO-9001 zertifiziert

# Farbweg 9 CH-3400 Burgdorf

Tel. +41 31 972 52 22 Fax. +41 31 972 52 21 info@studer-raimann.ch



ΑP	I		18
5	5.1 Resul	ts	18
	5.1.1 End	dpoints	18
	5.1.1.1	Token	18
	5.1.1.2	MediaType	18
	5.1.1.3	LiveVotingPin	18
	5.1.2 Exa	ample JSON Response	19

Farbweg 9 CH-3400 Burgdorf Tel. +41 31 972 52

Tel. +41 31 972 52 22 Fax. +41 31 972 52 21 info@studer-raimann.ch



# Introduction

# **Feature overview**

PL-Version	Changes
1.0.0	LiveVoting is a repository object plugin which allows course admins to create short votings. User can easily vote with a token-based acces to ILIAS which also allows to implement a SMS Service.
	The results of a voting can be presented live!
2.0.0	Support for ILIAS 5
3.0.0	<ul> <li>Complete new version of ILIAS LiveVoting, featuring the following:</li> <li>Voting types</li> <li>Multiple votings per LiveVoting session</li> <li>Presentator-driven navigation</li> <li>Better performance</li> <li>Complete Bootstrap support</li> </ul>
3.2.9	New Features:  • Voting rounds  Improvements and bug fixes:  • Performance improvements • Chrome compatibility improvement • Compatible with ILIAS 5.1
3.4.0	Caching is now configurable.     Result API     Voters are shown while a Voting is running.  Improvements and bug fixes:      ILIAS 5.0 support dropped     ILIAS 5.2 is now supported

Farbweg 9 CH-3400 Burgdorf Tel. +41 31 972 52 22 Fax. +41 31 972 52 21

info@studer-raimann.ch



# Installation

Start in your ILIAS base directory and execute:

```
mkdir -p Customizing/global/plugins/Services/Repository/Repository0bject
cd Customizing/global/plugins/Services/Repository/Repository0bject
git clone <a href="https://qithub.com/studer-raimann/LiveVoting.qit">https://qithub.com/studer-raimann/LiveVoting.qit</a>
cd LiveVoting
php composer.phar install
```

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

### 4.1 Shortlink-Config

To use the shortlink-feature you must config a Rewrite Rule in .htaccess or Apache-Config:

```
<IfModule mod_rewrite.c>
RewriteRule ^vote(/[\w]*|)
Customizing/global/plugins/Services/Repository/RepositoryObject/LiveVoting/pin.php?pin=$1
[L]</IfModule>
```

This example allows to access a LiveVoting directly with http://ilias.domain.org/vote/123

# 4.2 Configure Shortlink

If you added the RewriteRule as mentioned above, open the plugin administration and activate the shortlink function:



If your installation runs on https://ilias.yourdomain.com insert the following:

```
Short-URL: https://ilias.yourdomain.com/vote
Base-URL: https://ilias.yourdomain.com
```

If your installation runs on https://www.yourdomain.com/ilias insert the following:

```
Short-URL: https://www.yourdomain.com/ilias/vote
Base-URL: https://ilias.yourdomain.com/ilias
```

Farbweg 9 CH-3400 Burgdorf Tel. +41 31 972 52 22 Fax. +41 31 972 52 21

info@studer-raimann.ch



# 4.3 Configuration on Multi-Client-Installations

LiveVoting is only compatible with One-Client-Installations or can at least only run on one client at the same time. To specify which client uses LiveVoting, provide a textfile called "client.txt" in the plugin root (where the file plugin.php exists). Insert the client name which uses LiveVoting, e.g.:

root@vagrant-ubuntu-trusty-64:LiveVoting# echo "clientname" > client.txt

#### 4.4 Configuration when using symlinks

In some server configurations LiveVoting has problems to determine the actual directory, where ILIAS runs. This leads to an exception like:

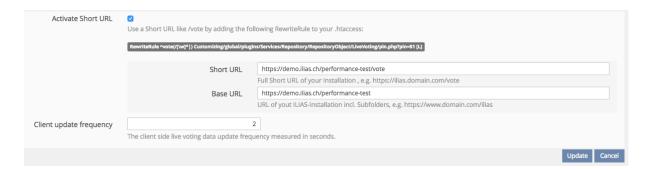
```
LiveVoting cannot determine correct directory. If your installation isn't located at '/var/www/mysymlink', LiveVoting is currently unable to run
```

In that case you should specify the path to the ILIAS-root in a file called "path.txt" in the plugin-root (where the file plugin.php exists). E.g.:

root@vagrant-ubuntu-trusty-64:LiveVoting# echo "/var/www/ilias" > path.txt

# 4.5 Configure voter update frequency

Navigate to the LiveVoting plugin configuration.



Now you can configure a value between 1 and 60 seconds. Be aware that this option has a strong impact on the LiveVoting performance. The default value for this option is 1 second, because that's the behaviour of older plugin versions.

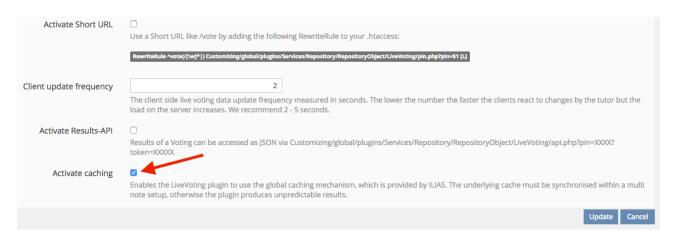
Farbweg 9 CH-3400 Burgdorf

Tel. +41 31 972 52 22 Fax. +41 31 972 52 21 info@studer-raimann.ch



# 4.6 Configure plugin cache

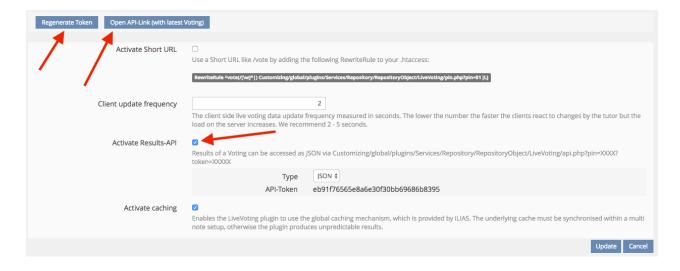
Navigate to the LiveVoting plugin configuration.



Tick the "Activate caching" option to enable the plugin cache. Please make sure to enable the ILIAS global cache, otherwise LiveVoting is not able to use the cache.

### 4.7 Configure Results-API

Navigate to the LiveVoting plugin configuration.



Tick the Activate Results-API to enable the API access. ILIAS will generate a token which must be used to access the API. The default output format of the API is JSON but it can be switch to XML if needed.

While the Results-API is enabled, token can be regenerated with the "Regenerate Token" button. The "Open API-Link" button opens the last voting done, which is useful for developers to get in touch with the Result-API.

Farbweg 9 CH-3400 Burgdorf Tel. +41 31 972 52

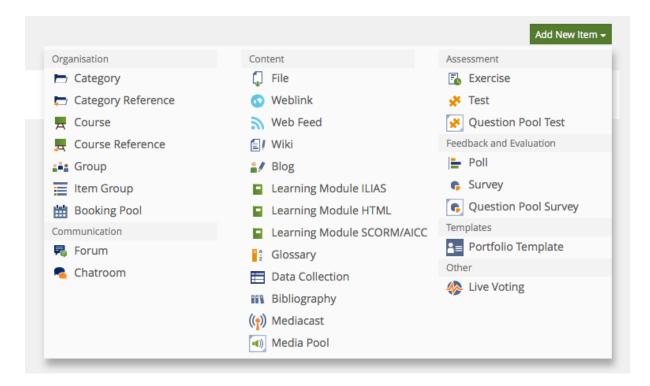
Tel. +41 31 972 52 22 Fax. +41 31 972 52 21 info@studer-raimann.ch



# Usage of the plugin

# 4.8 Create LiveVoting sessions

Create new voting sessions in the ILIAS-Repository:



Define a title and a description for your voting session:

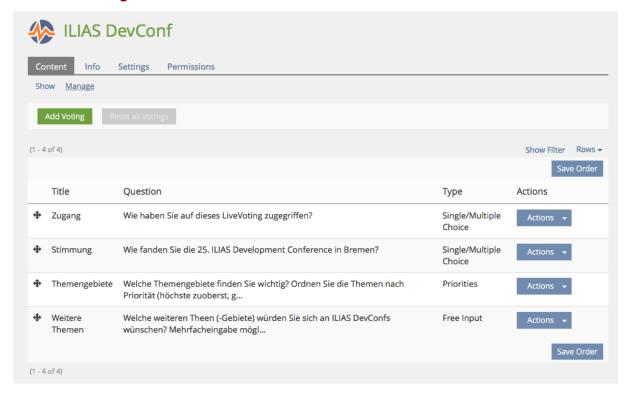


Farbweg 9 CH-3400 Burgdorf

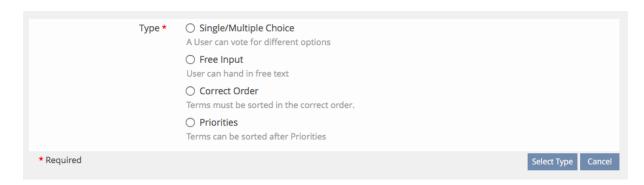
Tel. +41 31 972 52 22 Fax. +41 31 972 52 21 info@studer-raimann.ch



# 4.9 Add votings to the session



Add new votings by clicking "Add Voting". After that, a selection of the desired voting type is displayed:

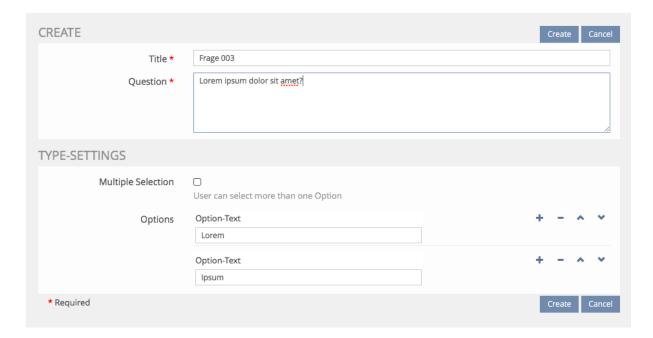


Each voting has a title and a question text. If the installation supports the RichTextEditor (RTE), some basic formats are allowed. Additionally each voting type has it's specific Settings:

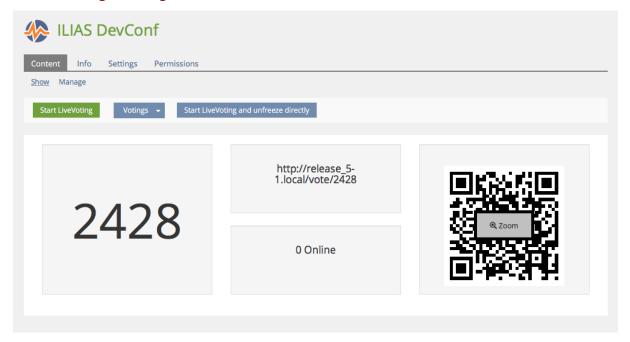
Farbweg 9 CH-3400 Burgdorf

Tel. +41 31 972 52 22 Fax. +41 31 972 52 21 info@studer-raimann.ch





# 4.10 Starting a voting session



There are three option to start a voting session:

- Direct start ("Start LiveVoting") with first voting
- Start a specific voting (Dropdown "Votings")
- Start with first voting and unfreeze directly

Since a voting session starts in frozen mode, the last option allows to directly unfreeze the voting session.

Farbweg 9 CH-3400 Burgdorf

Tel. +41 31 972 52 22 Fax. +41 31 972 52 21 info@studer-raimann.ch



# 4.11 Accessing the Voting as Voter

The voters have three different options to participate the voting session:

- Open shortlink, e.g. http://release\_5-1.local/vote/ and insert the voting PIN
- Accessing the shortlink URL incl. the PIN, e.g. http://release\_5-1.local/vote/2428
- · Scan the QR code and open the URL



After opening the voter screen, voters will have to wait until the presenter unfreezes the voting:



Farbweg 9 CH-3400 Burgdorf

Tel. +41 31 972 52 22 Fax. +41 31 972 52 21 info@studer-raimann.ch



# 4.12 Navigating as presenter

#### 4.12.1 Freeze/Unfreeze





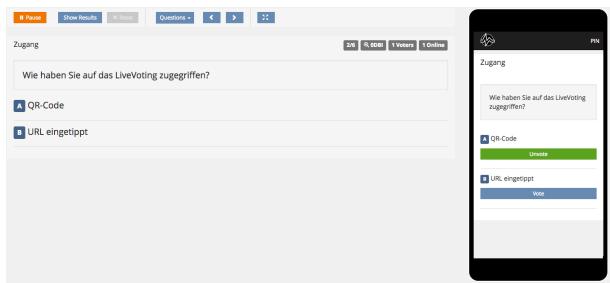
Farbweg 9 CH-3400 Burgdorf

Tel. +41 31 972 52 22 Fax. +41 31 972 52 21 info@studer-raimann.ch



#### 4.12.2 Show/Hide results





#### 4.12.3 Fullscreen mode



Farbweg 9 CH-3400 Burgdorf Tel. +41 31 972 52 22 Fax. +41 31 972 52 21

info@studer-raimann.ch



# 4.13 Start new voting round

Now it's supported to start new rounds and keep the old voting results.

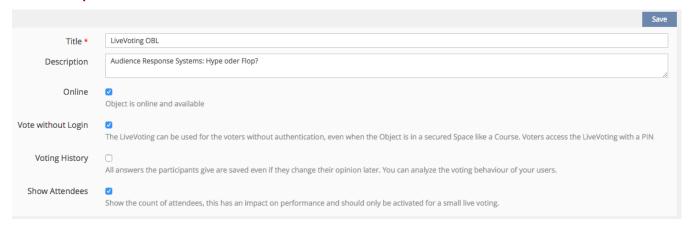
To start a new round navigate as presenter to the tap named Result and click onto the button labeled "New Round". It's important to know that you can't continue to use an old round the button Change only changes the results view and not the round of the player itself.



# 4.14 Presenter settings

Navigate as presenter to the tab named Settings.

#### 4.14.1 Properties



#### 4.14.1.1 Vote without Login

The vote without login option is the recommended way to hold a LiveVoting in a big audience. This option allows participants to start the voting with a pin displayed by the presenter. If there are performance issues, this option may reduce the server load in some circumstances.

Farbweg 9 CH-3400 Burgdorf Tel. +41 31 972 52

Tel. +41 31 972 52 22 Fax. +41 31 972 52 21 info@studer-raimann.ch

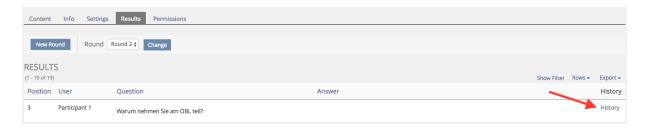


Seite 16 von 19

#### 4.14.1.2 Voting History

This option activates a voting history for all participant. The voting history also includes changed votes of the participants.

Navigate as presenter to the tab named Result and click on the history link. Be aware that the history can't be generated for a LiveVoting which ran before the option was enabled.



# 4.14.1.3 Show Attendees

The show attendees option counts the number of participants of the ongoing LiveVoting based on the configured refresh time see chapter 4.5.

Farbweg 9 CH-3400 Burgdorf

Tel. +41 31 972 52 22 Fax. +41 31 972 52 21 info@studer-raimann.ch



# 4.14.2 Behaviour while navigating

Frozen-State	<ul> <li>Question is always active after changing</li> <li>Users can vote directly after switching question.</li> </ul>
	<ul> <li>Question is always inactive after changing</li> <li>Users can vote after the presentator presses the Vote-Button the question.</li> </ul>
	<ul> <li>Reuse Status</li> <li>Frozen-State is consistent after switching question.</li> </ul>
Show Results	<ul> <li>Results are always visible</li> <li>Results are always visible after switching question.</li> </ul>
	<ul> <li>Results are always hidden</li> <li>Results are always hidden after switching question.</li> </ul>
	<ul> <li>Reuse state</li> <li>The State is consistent after switching question.</li> </ul>

#### 4.14.2.1 Frozen-State

The frozen state describes the behavior of player takes after the presenter switches the question.

# 4.14.2.2 Show Results

The Show Results option describes the behavior of the result display after the question was changed by the presenter.

Farbweg 9 CH-3400 Burgdorf Tel. +41 31 972 52

Tel. +41 31 972 52 22 Fax. +41 31 972 52 21 info@studer-raimann.ch



# **API**

#### 5.1 Results

#### 5.1.1 Endpoints

The endpoint without URL rewriting looks as follows:

{ILIAS}/Customizing/global/plugins/Services/Repository/RepositoryObject/LiveVoting/api.php?token= {Token}&type={MediaType}&pin={LiveVotingPin}

#### 5.1.1.1 Token

The token which can be acquired via the plugin configuration.

# 5.1.1.2 MediaType

The media type has two possible values.

1 = JSON

2 = XML

#### 5.1.1.3 LiveVotingPin

The LiveVoting pin is shown at the start page of each LiveVoting.



# 5.1.2 Example JSON Response

```
"Info": {
    "Title": "LiveVoting",
    "Round": "1",
    "RoundId": "1",
    "Pin": "ODBI",
    "Date": "2017-04-10T09:16:45+0200"
  "Votings": {
    "4": {
     "Id": 4,
      "Title": "Zugang",
      "QuestionType": "SingleVote",
      "QuestionTypeId": 1,
      "Question": "Wie haben Sie auf das LiveVoting zugegriffen?",
      "Position": 4,
      "Options": [
        {
          "Id": 8,
          "Text": "QR-Code",
          "Position": 1
        },
        {
          "Id": 9,
          "Text": "URL eingetippt",
          "Position": 2
      ],
      "Voters": [
        {
          "Identifier": "0",
          "AnswerIds": [
          ],
          "AnswerText": ""
        },
        {
          "Identifier": "fdm01a7jj78r6omqkchnjciri4",
          "AnswerIds": [
            7
          "AnswerText": "QR-Code"
        }
     ]
   }
  }
}
```