

EXT: eGov API

Extension Key: egovapi Language: en, de, fr, it

Keywords: e-government, switzerland, administrative services, cyberadministration

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The content of this document is related to TYPO3

- a GNU/GPL CMS/Framework available from www.typo3.org



Table of Contents

| EXT: eGov API Introduction | |
|--------------------------------|----|
| What does it do? | |
| Sponsorship | |
| Screenshots | |
| User manual | |
| Plugin options | 5 |
| Domain Model | 11 |
| Available markers and subparts | 14 |
| Administration | 19 |
| Installing the extension | 19 |
| TypoScript configuration | 20 |
| Selector Form Plugin | 22 |
| RDF Rendering (Semantic Web) | 23 |
| Configuration | 25 |

| plugin.tx_egovapi_pi1 | 25 |
|-------------------------------------|----|
| plugin.tx_egovapi_pi1.displayBlocks | 26 |
| plugin.tx_egovapi_pi1.versions | 26 |
| plugin.tx_egovapi_pi1.targets | 26 |
| plugin.tx_egovapi_pi1.templates | 26 |
| plugin.tx_egovapi_pi2 | 28 |
| Tutorial | 30 |
| Use case | 30 |
| Developer Manual | 33 |
| Hooks | 33 |
| API documentation | 33 |
| eGov web service | 33 |
| Known problems | 34 |
| To-Do list | 35 |
| Changel og | 36 |

Introduction

What does it do?

In the digital age, enterprises and citizens should be able to ask for an administrative authorization or an official register extract electronically. Thanks to the eGov CH Reference project, they can access any useful information online 24/7 and order via internet or mobile phone. The administration better responds to current requirements and customer needs, helping to reduce bureaucracy and increasing the attractiveness of the Swiss economy.

The eGov API extension aims at providing an easy way to swiss public authorities to show and grant access to the different administrative services they offer through their TYPO3 website.

Sponsorship

This extension is the official implementation of the swiss eGov Remote API for TYPO3. It has been sponsored by the State Secretariat for Economic Affairs SECO which is the Confederation's competence centre for all core issues relating to economic policy. The SECO wanted to improve the online access to the administrative services they offer. This project has been developed and is being maintained by Causal Sarl, in Fribourg.

Further information:

Website of the SECO: http://www.seco.admin.ch/

Reference eGov project's website: http://www.cyberadmin.ch/

Causal Sàrl: http://causal.ch/



Screenshots



User manual

EXT: eGov API - egovapi

Plugin options

The plugin is split among a general configuration tab and then a tab for each and every level of the eGov API (Audience, View, Domain, Topic, Service). Finally a "Version" tab allows you to force a given version of a service to be used instead of the default one. "Other Settings" provides a few additional configuration options we will describe later on.

General



The rules are as follows:

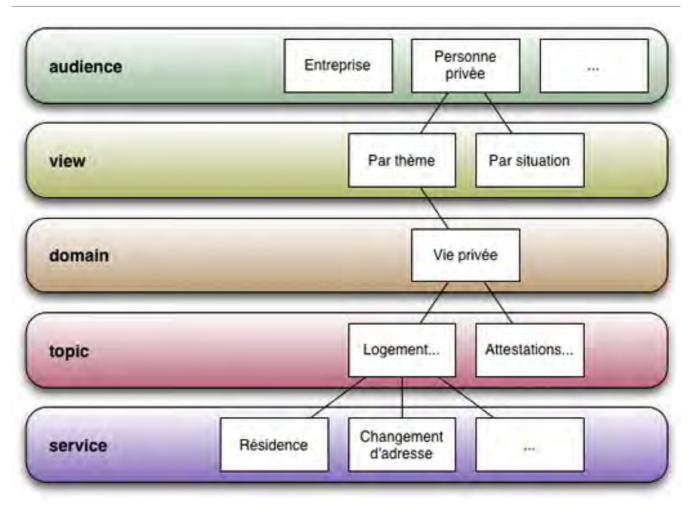
- If a field is left empty, the corresponding TypoScript property is taken into account.
- If the corresponding TypoScript property is empty, there is no restriction. In the screenshot above, leaving "Authorized levels" empty will let you freely navigate from Audience to Service back and forth.

Backend administrators only: Field myTS allows you to override the TypoScript configuration after the merge of the FlexForm options. This is really the last chance to update the rendering configuration. Any configuration option may be overridden except the web service related properties (WSDL, cache lifetime, language, ...). A business processing makes use of it before the rendering takes place. We assume it is more than unlikely to be needed anyway.

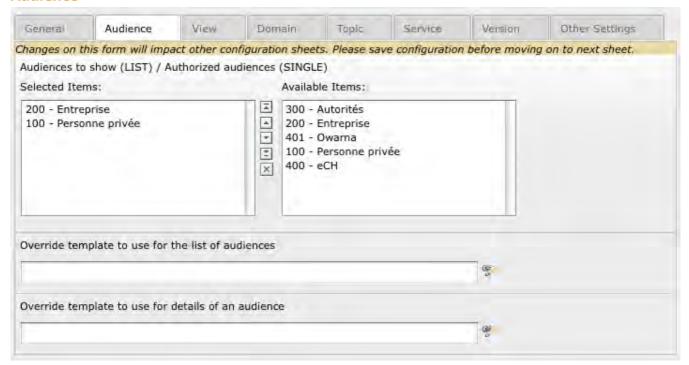
Level hierarchy

Before actually describing the options of the level configuration tabs, it may help giving us an overview of the level hierarchy within the eGov web service:





Audience

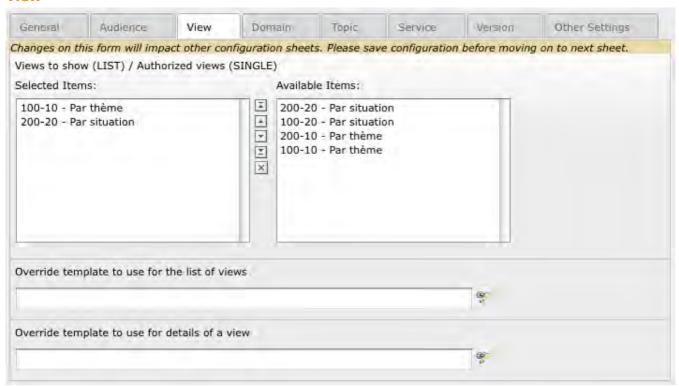


By selecting items, you trim down the list of items being shown by the plugin and this additionally lets you manually order them.

Whenever you change the list of selected items in any of the Audience, View, Domain or Topic tab, you should save your

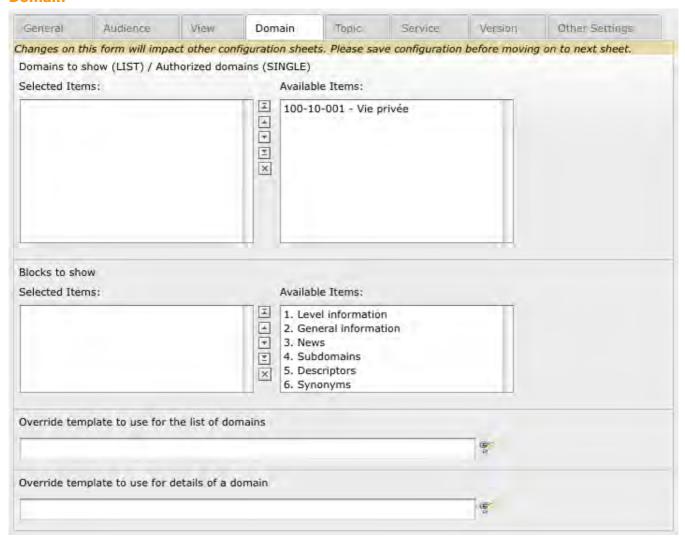
plugin configuration as the sublevel list of items in the next tab will be filtered accordingly. E.g., in the screenshot above, we selected "Entreprise" and "Personne privée" as audiences to be shown and we ordered them to show "Entreprise" and then "Personne privée". We should now save the plugin configuration before moving on to tab "View" where we only will get views related either to "Entreprise" or to "Personne privée" in the available items.

View





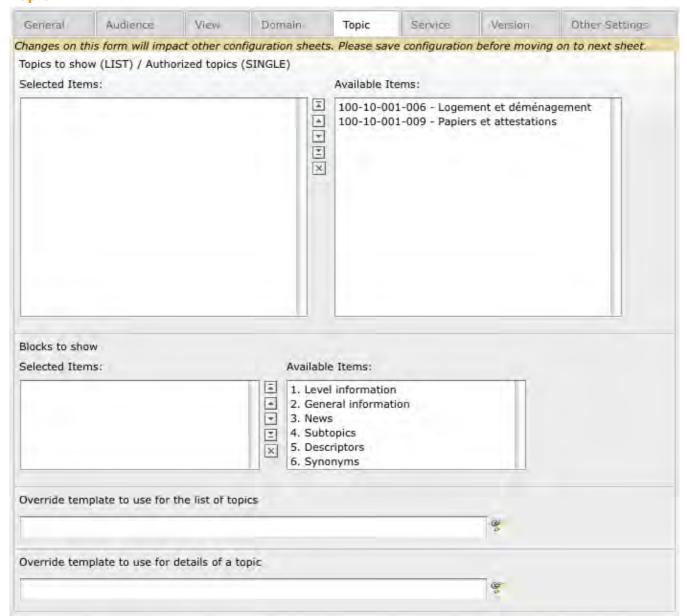
Domain



Blocks to show: This section is used when showing the details of a single domain. It allows us to trim down the amount of information or to split them among multiple copies of the plugin on a detail page.

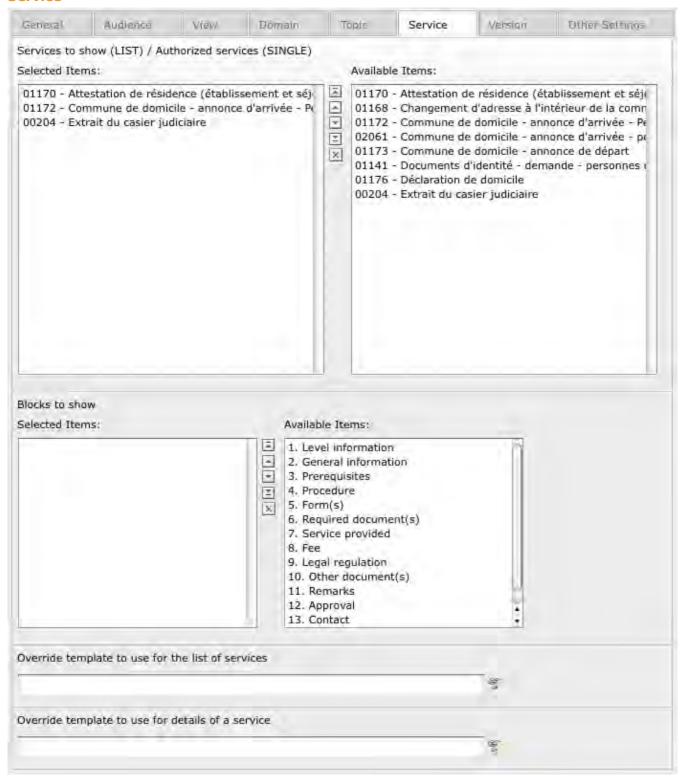


Topic





Service





Version

| General | Audience | View | Domain | Topic | Service | Version | Other Settings |
|---------------|--------------------|---------------|-----------------|----------------|------------------|-------------------|-------------------------|
| dvanced co | nfiguration of ser | vice versions | to be used. Be | ware: invalid | configuration is | s likely to yield | empty services. |
| Force service | ce versions | | | | | | |
| Service ID | Default version | Version to | use Description | on | | | |
| 01170 | 13430 | | Attestation | de résidence | e (établissemen | t et séjour) | |
| 01172 | 13434 | | Commune | de domicile - | annonce d'arri | vée - Personne | s de nationalité suisse |
| | 11781 | | Extrait du | casier judicia | ira | | |

Domain Model

This section describes the eGov API domain model. The domain model may be accessed directly when using Fluid-based templates. If instead you use marker-based templates, only partial access to the domain model will be possible and you probably will have to implement one of the available hooks (see Hooks section in Developer Manual, page 33) for more complex scenarios.

We only describe domain model for the eGov API levels (audience, view, domain, topic, service). Attributes for the blocks of information which are typically used for the details view of an entity should be analyzed with Fluid template examples or by looking at the classes within directory Classes/Domain/Model/Blocks/ (e.g., using http://api.causal.ch/egovapi/).

Audience (tx egovapi domain model audience)

| Property: | Туре: |
|----------------------|--------------------------------|
| id | integer |
| author | string |
| creationDate | integer (timestamp) |
| lastModificationDate | integer (timestamp) |
| name | string |
| views | tx_egovapi_domain_model_view[] |

View (tx_egovapi_domain_model_view)

| Property: | Туре: |
|----------------------|----------------------------------|
| id | integer |
| author | string |
| creationDate | integer (timestamp) |
| lastModificationDate | integer (timestamp) |
| name | string |
| domains | tx_egovapi_domain_model_domain[] |
| audience | tx_egovapi_domain_model_audience |

Additional template values:

hasParent (boolean): set to TRUE if parent view may be shown on same page, otherwise FALSE.

Domain (tx egovapi domain model domain)

| Property: | Туре: |
|--------------|---------------------|
| id | integer |
| author | string |
| creationDate | integer (timestamp) |





| Property: | Туре: |
|----------------------|--|
| lastModificationDate | integer (timestamp) |
| name | string |
| description | string |
| isParent | boolean |
| versionId | integer |
| versionName | string |
| communityId | string |
| release | integer |
| remarks | string |
| status | string |
| generalInformation | tx_egovapi_domain_model_block_generalInformation |
| news | tx_egovapi_domain_model_block_news |
| subdomains | tx_egovapi_domain_model_block_subdomains |
| descriptor | tx_egovapi_domain_model_block_descriptor |
| synonym | tx_egovapi_domain_model_block_synonym |
| topics | tx_egovapi_domain_model_topic[] |
| view | tx_egovapi_domain_model_view |

Additional template values:

- hasParent (boolean): set to TRUE if parent view may be shown on same page, otherwise FALSE.
- showLevelInformation (boolean): set to TRUE if level information block may be shown, otherwise FALSE.
- **showGeneralInformation** (boolean): set to TRUE if general information block may be shown, otherwise FALSE.
- **showNews** (boolean): set to TRUE if news block may be shown, otherwise FALSE.
- showSubdomains (boolean): set to TRUE if subdomains block may be shown, otherwise FALSE.
- **showDescriptor** (boolean): set to TRUE if descriptor block may be shown, otherwise FALSE.
- **showSynonym** (boolean): set to TRUE if synonym block may be shown, otherwise FALSE.

Topic (tx_egovapi_domain_model_topic)

| Property: | Туре: |
|----------------------|--|
| id | integer |
| author | string |
| creationDate | integer (timestamp) |
| lastModificationDate | integer (timestamp) |
| name | string |
| description | string |
| isParent | boolean |
| versionId | integer |
| versionName | string |
| communityId | string |
| release | integer |
| remarks | string |
| status | string |
| generalInformation | tx_egovapi_domain_model_block_generalInformation |
| news | tx_egovapi_domain_model_block_news |
| subtopics | tx_egovapi_domain_model_block_subtopics |

| Property: | Туре: |
|------------|--|
| descriptor | tx_egovapi_domain_model_block_descriptor |
| synonym | tx_egovapi_domain_model_block_synonym |
| services | tx_egovapi_domain_model_service[] |
| domain | tx_egovapi_domain_model_domain |

Additional template values:

- hasParent (boolean): set to TRUE if parent view may be shown on same page, otherwise FALSE.
- **showLevelInformation** (boolean): set to TRUE if level information block may be shown, otherwise FALSE.
- **showGeneralInformation** (boolean): set to TRUE if general information block may be shown, otherwise FALSE.
- **showNews** (boolean): set to TRUE if news block may be shown, otherwise FALSE.
- **showSubtopics** (boolean): set to TRUE if subtopics block may be shown, otherwise FALSE.
- **showDescriptor** (boolean): set to TRUE if descriptor block may be shown, otherwise FALSE.
- **showSynonym** (boolean): set to TRUE if synonym block may be shown, otherwise FALSE.

Service (tx_egovapi_domain_model_service)

| Property: | Туре: |
|----------------------|--|
| id | integer |
| author | string |
| creationDate | integer (timestamp) |
| lastModificationDate | integer (timestamp) |
| name | string |
| description | string |
| versionId | integer |
| versionName | string |
| communityId | string |
| release | integer |
| comments | string |
| provider | string |
| customer | string |
| type | string |
| action | string |
| status | string |
| generalInformation | tx_egovapi_domain_model_block_generalInformation |
| prerequisites | tx_egovapi_domain_model_block_prerequisites |
| procedure | tx_egovapi_domain_model_block_procedure |
| forms | tx_egovapi_domain_model_block_forms |
| documentsRequired | tx_egovapi_domain_model_block_documentsRequired |
| serviceProvided | tx_egovapi_domain_model_block_serviceProvided |
| fee | tx_egovapi_domain_model_block_fee |
| legalRegulation | tx_egovapi_domain_model_block_legalRegulation |
| documentsOther | tx_egovapi_domain_model_block_documentsOther |
| remarks | tx_egovapi_domain_model_block_remarks |
| approval | tx_egovapi_domain_model_block_approval |
| contact | tx_egovapi_domain_model_block_contact |
| topic | tx_egovapi_domain_model_topic |

Additional template values:

- hasParent (boolean): set to TRUE if parent view may be shown on same page, otherwise FALSE.
- **showLevelInformation** (boolean): set to TRUE if level information block may be shown, otherwise FALSE.
- showGeneralInformation (boolean): set to TRUE if general information block may be shown, otherwise FALSE.
- showPrerequisites (boolean): set to TRUE if prerequisites block may be shown, otherwise FALSE.
- showProcedure (boolean): set to TRUE if procedure block may be shown, otherwise FALSE.
- **showForms** (boolean): set to TRUE if forms block may be shown, otherwise FALSE.
- showDocumentsRequired (boolean): set to TRUE if documents required block may be shown, otherwise FALSE.
- showServiceProvided (boolean): set to TRUE if service provided block may be shown, otherwise FALSE.
- **showFee** (boolean): set to TRUE if fee block may be shown, otherwise FALSE.
- showLegalRegulation (boolean): set to TRUE if legal regulation block may be shown, otherwise FALSE.
- showDocumentsOther (boolean): set to TRUE if documents other block may be shown, otherwise FALSE.
- **showRemarks** (boolean): set to TRUE if remarks block may be shown, otherwise FALSE.
- **showApproval** (boolean): set to TRUE if approval block may be shown, otherwise FALSE.
- **showContact** (boolean): set to TRUE if contact block may be shown, otherwise FALSE.
- showBackToList (boolean): set to TRUE if back to list block may be shown, otherwise FALSE.

Service (tx_egovapi_domain_model_block_contact)

| Property: | Туре: |
|--------------|--------|
| department | string |
| office | string |
| address | string |
| postalCase | string |
| postalCode | string |
| locality | string |
| person | string |
| phone | string |
| fax | string |
| email | string |
| publicKey | string |
| logo | string |
| banner | string |
| openingHours | string |

Available markers and subparts

When using marker-based templates, domain model attributes are available as ###{ENTITY} {ATTRIBUTE}###. The full list of available markers is as follows:

Audience

Markers

- AUDIENCE ID
- AUDIENCE_NAME
- AUDIENCE_AUTHOR

- EXT: eGov API egovapi
 - AUDIENCE_CREATION_DATE (formatted as dd.mm.yyyy)
 - AUDIENCE_LAST_MODIFICATION_DATE (formatted as dd.mm.yyyy)

Subparts

- AUDIENCE_LINK_VIEWS
- AUDIENCE_LINK_DETAIL

View

Markers

- VIEW_ID
- VIEW_NAME
- VIEW_AUTHOR
- VIEW_CREATION_DATE (formatted as dd.mm.yyyy)
- VIEW_LAST_MODIFICATION_DATE (formatted as dd.mm.yyyy)

Subparts

- VIEW_LINK_DOMAINS
- VIEW_LINK_DETAIL
- HAS_PARENT
- VIEW_LINK_AUDIENCES
- VIEW_LINK_AUDIENCE

Domain

Markers

- DOMAIN_ID
- DOMAIN_NAME
- DOMAIN_DESCRIPTION
- DOMAIN_IS_PARENT
- DOMAIN_VERSION_ID
- DOMAIN_VERSION_NAME
- DOMAIN_COMMUNITY_ID
- DOMAIN RELEASE
- DOMAIN_REMARKS
- DOMAIN_STATUS
- DOMAIN_AUTHOR
- DOMAIN_CREATION_DATE (formatted as dd.mm.yyyy)
- DOMAIN_LAST_MODIFICATION_DATE (formatted as dd.mm.yyyy)
- DOMAIN_GENERAL_INFORMATION
- DOMAIN_NEWS
- DOMAIN_SUBDOMAINS
- DOMAIN_DESCRIPTION
- DOMAIN_SYNONYM

Subparts

DOMAIN_LINK_TOPICS



- DOMAIN_LINK_DETAIL
- HAS_PARENT
- DOMAIN_LINK_VIEWS
- DOMAIN_LINK_VIEW
- SHOW_LEVEL_INFORMATION
- SHOW_GENERAL_INFORMATION
- SHOW_NEWS
- SHOW_SUBDOMAINS
- SHOW_DESCRIPTOR
- SHOW_SYNONYM

Topic

Markers

- TOPIC_ID
- TOPIC_NAME
- TOPIC_DESCRIPTION
- TOPIC_IS_PARENT
- TOPIC_VERSION_ID
- TOPIC_VERSION_NAME
- TOPIC_COMMUNITY_ID
- TOPIC_RELEASE
- TOPIC_REMARKS
- TOPIC_STATUS
- TOPIC_AUTHOR
- TOPIC_CREATION_DATE (formatted as dd.mm.yyyy)
- TOPIC_LAST_MODIFICATION_DATE (formatted as dd.mm.yyyy)
- TOPIC_GENERAL_INFORMATION
- TOPIC_NEWS
- TOPIC_SUBTOPICS
- TOPIC_DESCRIPTOR
- TOPIC_SYNONYM

Subparts

- TOPIC_LINK_SERVICES
- TOPIC_LINK_DETAIL
- HAS_PARENT
- TOPIC_LINK_DOMAINS
- TOPIC_LINK_DOMAIN
- SHOW_LEVEL_INFORMATION
- SHOW_GENERAL_INFORMATION
- SHOW_NEWS
- SHOW_SUBTOPICS





- SHOW_DESCRIPTOR
- SHOW_SYNONYM

Service

Markers

- SERVICE_ID
- SERVICE_NAME
- SERVICE_DESCRIPTION
- SERVICE_VERSION_ID
- SERVICE_VERSION_NAME
- SERVICE_COMMUNITY_ID
- SERVICE_RELEASE
- SERVICE_COMMENTS
- SERVICE_PROVIDER
- SERVICE_CUSTOMER
- SERVICE_TYPE
- SERVICE_ACTION
- SERVICE_STATUS
- SERVICE_AUTHOR
- SERVICE_CREATION_DATE (formatted as dd.mm.yyyy)
- SERVICE_LAST_MODIFICATION_DATE (formatted as dd.mm.yyyy)
- SERVICE_GENERAL_INFORMATION
- SERVICE_PREREQUISITES
- SERVICE_PROCEDURE
- SERVICE_FORMS
- SERVICE_DOCUMENTS_REQUIRED
- SERVICE_SERVICE_PROVIDED
- SERVICE_FEE
- SERVICE_LEGAL_REGULATION
- SERVICE_DOCUMENTS_OTHER
- SERVICE_REMARKS
- SERVICE_APPROVAL
- SERVICE_CONTACT
- SERVICE_CONTACT_DEPARTMENT
- SERVICE_CONTACT_OFFICE
- SERVICE_CONTACT_ADDRESS
- SERVICE_CONTACT_PO_BOX
- SERVICE_CONTACT_POSTAL_CODE
- SERVICE_CONTACT_LOCALITY
- SERVICE_CONTACT_PERSON
- SERVICE_CONTACT_PHONE



- SERVICE_CONTACT_FAX
- SERVICE_CONTACT_EMAIL
- SERVICE_CONTACT_EMAIL_LINK
- SERVICE_CONTACT_PUBLIC_KEY
- SERVICE_CONTACT_LOGO
- SERVICE_CONTACT_BANNER
- SERVICE_CONTACT_OPENING_HOURS
- VCARD_URL

Subparts

- SERVICE_LINK_DETAIL
- HAS_PARENT
- SERVICE_LINK_TOPICS
- SERVICE_LINK_TOPIC
- ${\sf SERVICE_LINK_SERVICES}$
- SHOW_LEVEL_INFORMATION
- SHOW_GENERAL_INFORMATION
- SHOW_PREREQUISITES
- SHOW_PROCEDURE
- SHOW_FORMS
- SHOW_DOCUMENTS_REQUIRED
- SHOW_SERVICE_PROVIDED
- SHOW_FEE
- SHOW_LEGAL_REGULATION
- SHOW_DOCUMENTS_OTHER
- SHOW_REMARKS
- SHOW_APPROVAL
- SHOW_CONTACT
- SHOW_BACK_TO_LIST

Administration

This chapter describes how to manage the extension from a superuser point of view.

Installing the extension

There are a few steps necessary to install the eGov API extension. If you have installed other extensions in the past, you will run into little new here.

Install the extension from Extension Manager

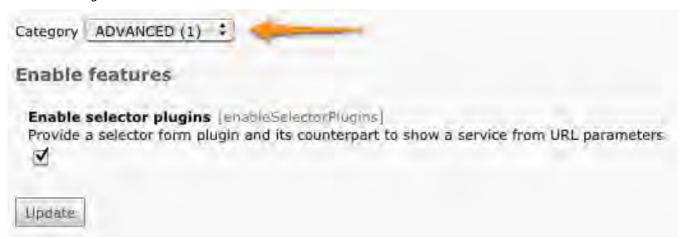
The eGov API extension can ben installed through the typical TYPO3 installation process using the Extension Manager.

During the installation process, you may be invited to install additional suggested extensions that interact with the eGov API extension. These are alls imply suggestions and can safely be ignored if you choose.

Note: If you plan to use Fluid as template engine, then you must install that system extension before installing the eGov API extension. The minimum required version of this system extension is 1.3.0 meaning it requires TYPO3 4.5 or above as Fluid template within the eGov API extension are using the FLUIDTEMPLATE content object which was introduced with TYPO3 4.5.

If you use TYPO3 4.5 or below, you have to create the two proposed caching tables (cf_egovapi and cf_egovapi_tags). These tables (not needed anymore with TYPO3 4.6 and above) are being used by the TYPO3 caching framework if you choose to use a database backend (see below).

Since version 1.2.0 a selector pluqin has been added, allowing you to show a form aimed at dynamically generating parametrized URIs, for non-TYPO3 websites willing to integrate e-government web service anyway. It has to be activated in **Extension Manager:**



Configure data caching

In order to prevent unnecessary traffic with the eGov servers hosting the web service, data caching should be configured. The extension makes use of TYPO3 caching framework. If you are using TYPO3 prior to 4.6, you have to activate the caching framework using either the Install Tool or by editing file typo3conf/localconf.php and adding following line:

```
$TYPO3 CONF VARS['SYS']['useCachingFramework'] = 1;
```

Activating caching framework will ensure that the same information is not retrieved twice during a single request. However, once the request is over, the cache is flushed as it internally uses a TransientMemoryBackend.

In order to cache data for a longer period of time, you should provide a caching configuration for the eGov API extension. A typical configuration to cache data in the database is:

```
$TYPO3 CONF VARS['SYS']['caching']['cacheConfigurations']['egovapi'] = array(
....'frontend' => 't3lib cache frontend VariableFrontend', // Should not be needed for TYPO3 4.5 and
above
    'backend' => 't3lib_cache_backend_DbBackend',
    'options' => array(
        'cacheTable' => 'cf egovapi',
        'tagsTable' => 'cf_egovapi_tags',
```

Important note: The "cacheTable" and "tagsTable" parts are not relevant anymore if you use TYPO3 4.6 and above as the caching framework uses it own table structure (creation of the corresponding tables when installing the eGov API extension is thus useless as well). See the corresponding task on Forge if you want to learn more.

Beware: In TYPO3 4.6 and above, the "clear all cache" will flush the eGov API cache too, as expected after all. This is a



good reason to make sure you do not clear all cache unless you really have to do so as it will severely impact the web service performances.

Please refer to the TYPO3 documentation for further configuration options.

Configure advanced data caching

Since web service version 2, the eGov API extension can take advantage of an operation returning recently updated services. This lets you configuring an unlimited cache lifetime (see chapter Configuration, page 25) and invalidate cache entry as they are updated. This is done by regularly running (e.g., every 1-2 days) scheduler task "Latest changes in eGov API" for all communities you are retrieving data for.

Configure RealURL

If you are using RealURL, the good news is that the eGov API extension comes with a configuration for RealURL.

If your configuration is automatically generated (you have a typo3conf/realurl autoconf.php file), delete it. It will be recreated by RealURL the next time you render your page and will integrate our postVarSets configuration.

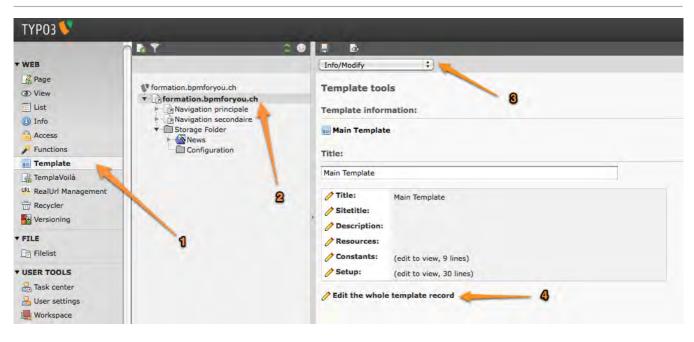
If you manually tweaked the configuration (you have a typo3conf/realurl_conf.php file), here is the configuration we suggest:

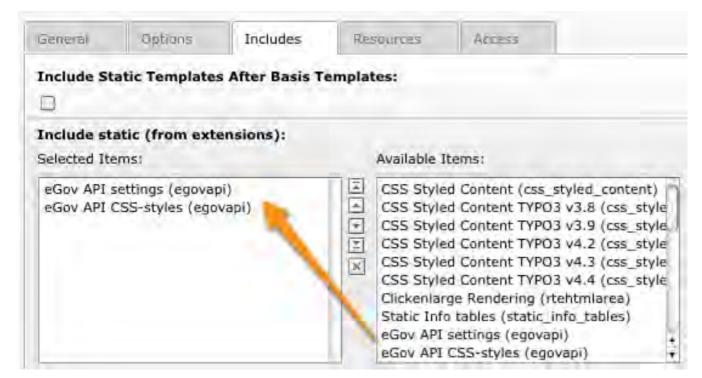
```
'postVarSets' => array(
    ' DEFAULT' => array(
        'audience' => array(
           array(
               'GETvar' => 'tx_egovapi_pi1[audience]',
        view' => array(
           array(
               'GETvar' => 'tx egovapi_pi1[view]',
           ),
        .
'domain' => array(
            array(
               'GETvar' => 'tx egovapi_pi1[domain]',
           ),
        'topic' => array(
           array(
               'GETvar' => 'tx egovapi pi1[topic]',
           ),
        'service' => array(
           array(
               'GETvar' => 'tx egovapi pi1[service]',
            ),
        action' => array(
           arrav(
               'GETvar' => 'tx_egovapi_pi1[action]',
        'mode' => array(
           array(
               'GETvar' => 'tx egovapi pi1[mode]',
       ),
   ),
```

TypoScript configuration

In order for this extension to be usable, make sure to include at least the static template "settings" from the eGov API extension. To do that, click on Web > Template in the left frame and then select the root page of the website. You template will show up. Then click on link "Edit the whole template record", open tab "Includes" and add static template from extension egovapi.

You are presented with two items in the list of available items. One is "eGov API settings (egovapi)", the other is "eGov API CSS-styles (egovapi)". You should at least add the settings. The CSS styles may serve as example for styling the extension's output and should even be omitted if you want to use your own CSS.





Save changes to your templates and close this form. Then open the Constant Editor from the dropdown menu and update global configuration to fit your needs:





There are many other options such as the language of the web service which should typically be related to the value of config.language in your setup.

If you are running a recent version of TYPO3 (≥ 4.5.0), you definitively should use Fluid as rendering engine. This requires system extension fluid to be loaded. Using Fluid will highly ease the way you prepare your templates and will let you have full control over the way web service data are rendered.

Selector Form Plugin

If you activated the selector form plugin within the Extension Manager, you will see an additional plugin available in the new content element wizard:





The selector form plugin requires a dedicated static TypoScript, the "eGov API selector settings" and possibly the default CSS styles, as for the main plugin. Make sure to properly configure constant plugin.tx_egovapi.targets.single.service with the UID of the page containing the main plugin.

The plugin is shipped with a standard jQuery-based javascript using AJAX queries to refresh the form. A custom demo version has been integrated on http://fr.causal.ch/realisations/api-e-government/demo/.

Beware: The main plugin should use settings "eGov API selector settings" too and not the default ones.

Generating Legacy Parametrized URL

You may want to use the selector form plugin to generate parametrized URL compatible with the legacy service handler on www.cyberadmin.ch. Below is a configuration example for generating such URLs.

```
plugin.tx_egovapi pi2.parametrizedUrl = TEXT
plugin.tx_egovapi_pi2.parametrizedUrl {
    typolink {
       parameter = http://www.cyberadmin.ch/eGovApi/
        parameter.wrap.cObject = COA
        parameter.wrap.cObject {
           1 = TEXT
            1.value = |
            10 = TEXT
            10.data = GP:language
            10.wrap = ?eCHlanguageID=|
            10.case = upper
            20 = TEXT
            20.data = GP:organization
            20.wrap = &eCHmunicipalityID=|
            30 = TEXT
            30.field = id
            30.wrap = &eCHserviceID=|
            40 = TEXT
            40.field = versionId
            40.wrap = &eCHserviceVersionID=|
            50 = TEXT
            50.data = GP:blocks
            50.wrap = &eCHserviceBlock=|
            60 = TEXT
            60.value = htmlpagecss
            60.wrap = &eCHapiFormat=|
            70 = TEXT
            70.value = utf-8
            70.wrap = &eCHapiEncode=|
```

RDF Rendering (Semantic Web)

Since egovapi version 2.0, in 2012, RDF output of the services has been introduced, allowing published services to be easily integrated to the semantic web as a source of open data.

For new installations, the RDF rendering engine is automatically activated because the associated database table tx_egovapi_rdf is known to be present as it is automatically created when installing the extension.

For existing installations, the RDF rendering engine should be manually activated by opening egovapi within the Extension Manager, creating any missing tables and making sure the corresponding checkbox is ticked in the Basic settings.

Beware: Do not forget to click the Update button to save the configuration!

In order for external semantic web crawlers to take advantage of the RDF output of the published services, a reference should be added to the HEAD part of website's homepage:

```
<link id="__ech-published_services" rel="alternate" type="text/rdf+n3" href="/?eID=egovapi_rdf" />
```

This may be easily done with such TypoScript configuration, typically within your master template:

```
page.headerData.999 = TEXT
page.headerData.999 {
    typolink {
       parameter = <your-homepage-page-id>
       additionalParams = &eID=egovapi rdf
       returnLast = url
    wrap = <link id=" ech-published services" rel="alternate" type="text/rdf+n3" href="|" />
```

Internals about the RDF rendering engine

Each time the main egovapi plugin (pi1) renders the SINGLE view of a service, it adds or refreshes an entry in the database table tx_egovapi_rdf. This table contains information on the corresponding service (id, version, ...) and a reference to the page URL it is published to.

In additional, a column stores the last time the service has been "seen" (that is, the main egovapi plugin generated the SINGLE view). This column allows obsolete entries to be automatically pruned after a grace period of 60 days.

What it means is that published services that are not accessed by someone at least once every 2 months or services that moved to another URL will automatically disappear from the generated RDF file.



Configuration
This chapter describes the TypoScript extension parameters.

plugin.tx_egovapi_pi1

Global parameters for the main extension.

| Property: | Data type: | Description: | Default: |
|------------------------------|--|--|--|
| wsdlVersion | string /stdWrap | Version of the web service to use (at the moment, either "1.0" or "2.0") | 2.0 |
| wsdl | string /stdWrap | URL of the eGov API SOAP entry point. | empty Dynamically set according to wsdlVersion |
| cacheLifetime | integer /stdWrap | Lifetime of the WSDL result calls, in seconds. Use 0 for unlimited cache lifetime. | 604800 (1 week) |
| eCHlanguageID | string /stdWrap | Language to use for the web service. Valid options are "de", "en", "fr", "it", "rm". | en |
| eCHcommunityID | string /stdWrap | Community ID. | |
| organizationID | integer /stdWrap | Organization ID. | |
| useFluid | boolean /stdWrap | If set to "1", Fluid templates will be used. Only available since TYPO3 4.5. | 0 |
| showRenderTime | boolean /stdWrap | If set to "1", time needed to generate plugin's output will be added after it as HTML comment. | 1 |
| stripTags | boolean /stdWrap | Deprecated: If set to "1", HTML tags from many web service information block will be stripped off. Beware: Eventually this flag will be removed and HTML tags will always be removed for those blocks that were determined as having to be plain text. | 1 |
| enableRdfRenderingEng ine | boolean /stdWrap | Override the global configuration setting for the RDF rendering engine. Might be useful to prevent publishing of draft versions of services. | not set inherit global configuration |
| rdfKeepParameters | string | Comma-separated list of GET parameters that should be kept when registering published services | uid, cHash and tx_egovapi_pi1 parameters |
| enableDebug | boolean /stdWrap | If set to "1", debug information will be output. | 0 |
| includeCHServices | boolean /stdWrap | If set to "1", services from swiss confederation will be included too (eCHcommunityID = 00-00). | 1 |
| dynamicConfig | boolean /stdWrap | Only makes sense in conjunction with Pi2 (selector form). If set to "1", configuration of this plugin will use arguments in the URL. See Pi2 static TS for more information. | 0 |
| displayLevels | comma-separated list of string /stdWrap | Authorized levels to be used by the plugin. | AUDIENCE, VIEW, DOMAIN, TOPIC, SERVICE |
| level | string /stdWrap | Static level to be used by the plugin. | |
| mode | string /stdWrap | Static display mode. Either LIST or SINGLE. Leave empty for automatic switch from LIST to SINGLE. | |
| audiences | comma-separated list of integer /stdWrap | Authorized list of audience IDs to be displayed. Leave empty for no restriction. | |
| views | comma-separated list of string /stdWrap | Authorized list of view IDs to be displayed. Leave empty for no restriction. | |
| domains | comma-separated list of string /stdWrap | Authorized list of domain IDs to be displayed. Leave empty for no restriction. | |
| topics | comma-separated list of string /stdWrap | Authorized list of topic IDs to be displayed. Leave empty for no restriction. | |



EXT: eGov API - egovapi

| Property: | Data type: | Description: | Default: |
|-----------|------------|---|----------|
| services | • | Authorized list of service IDs to be displayed. Leave empty for no restriction. | |

[tsref:plugin.tx_egovapi_pi1]

plugin.tx_egovapi_pi1.displayBlocks

Configuration of blocks of detailed information that may be shown.

| Property: | Data type: | Description: | Default: |
|-----------|---|---|---|
| domain | comma-separated list of string /stdWrap | List of domain blocks that may be shown. | LEVEL_INFORMATION, GENERAL_INFORMATION, NEWS, SUBDOMAINS, DESCRIPTOR, SYNONYM |
| topic | comma-separated list of string /stdWrap | List of topic blocks that may be shown. | LEVEL_INFORMATION, GENERAL_INFORMATION, NEWS, SUBTOPICS, DESCRIPTOR, SYNONYM |
| service | comma-separated list of string /stdWrap | List of service blocks that may be shown. | LEVEL_INFORMATION, GENERAL_INFORMATION, PREREQUISITES, PROCEDURE, FORMS, DOCUMENTS_REQUIRED, SERVICE_PROVIDED, FEE, LEGAL_REGULATION, DOCUMENTS_OTHER, REMARKS, APPROVAL, CONTACT |

[tsref:plugin.tx_egovapi_pi1.displayBlocks]

plugin.tx_egovapi_pi1.versions

Configuration of the versions of the services to be used.

| Property: | Data type: | Description: | Default: |
|-------------|------------------|---|----------|
| {serviceId} | integer /stdWrap | Version ID to use instead of the default version. | |

[tsref:plugin.tx_egovapi_pi1.versions]

plugin.tx_egovapi_pi1.targets

Configuration of page targets for links between levels or display modes.

| Property: | Data type: | Description: | Default: |
|--------------------|------------------|---|-----------------------|
| audience.listPid | integer /stdWrap | Page ID to redirect to when showing a list of audiences. | \$GLOBALS['TSFE']->id |
| audience.singlePid | integer /stdWrap | Page ID to redirect to when showing details of an audience. | \$GLOBALS['TSFE']->id |
| view.listPid | integer /stdWrap | PageID to redirect to when showing a list of views. | \$GLOBALS['TSFE']->id |
| view.singlePid | integer /stdWrap | PageID to redirect to when showing details of a view. | \$GLOBALS['TSFE']->id |
| domain.listPid | integer /stdWrap | PageID to redirect to when showing a list of domains. | \$GLOBALS['TSFE']->id |
| domain.singlePid | integer /stdWrap | PageID to redirect to when showing details of a domain. | \$GLOBALS['TSFE']->id |
| topic.listPid | integer /stdWrap | PageID to redirect to when showing a list of topics. | \$GLOBALS['TSFE']->id |
| topic.singlePid | integer /stdWrap | PageID to redirect to when showing details of a topic. | \$GLOBALS['TSFE']->id |
| service.listPid | integer /stdWrap | PageID to redirect to when showing a list of services. | \$GLOBALS['TSFE']->id |
| service.singlePid | integer /stdWrap | PageID to redirect to when showing details of a service. | \$GLOBALS['TSFE']->id |

[tsref:plugin.tx_egovapi_pi1.targets]

plugin.tx_egovapi_pi1.templates

Template configuration is split into two parts, one for Fluid-based templates, the other for marker-based templates.

Fluid-based templates

Please note that all properties below have full-fledge support of following FLUIDTEMPLATE content object properties:

- file (which is used as default property hereafter)
- layoutRootPath
- partialRootPath
- format
- variables

Read more on this on: http://forge.typo3.org/projects/typo3v4-mvc/wiki/FLUIDTEMPLATE_Content_Object

| Property: | Data type: | Description: | Default: |
|----------------------------|-----------------|---|---|
| list.audience.fluid.file | string /stdWrap | Template to use to render a list of audiences. | EXT:egovapi/Resources/Pri vate/Templates/Fluid/Audi ence/List.html |
| list.view.fluid.file | string /stdWrap | Template to use to render a list of views. | EXT:egovapi/Resources/Pri vate/Templates/Fluid/View /List.html |
| list.domain.fluid.file | string /stdWrap | Template to use to render a list of domains. | EXT:egovapi/Resources/Pri vate/Templates/Fluid/Dom ain/List.html |
| list.topic.fluid.file | string /stdWrap | Template to use to render a list of topics. | EXT:egovapi/Resources/Pri vate/Templates/Fluid/Topic /List.html |
| list.service.fluid.file | string /stdWrap | Template to use to render a list of services. | EXT:egovapi/Resources/Pri vate/Templates/Fluid/Servi ce/List.html |
| single.audience.fluid.file | string /stdWrap | Template to use to render details of an audience. | EXT:egovapi/Resources/Pri vate/Templates/Fluid/Audi ence/List.html |
| single.view.fluid.file | string /stdWrap | Template to use to render details of a view. | EXT:egovapi/Resources/Pri vate/Templates/Fluid/View /Single.html |
| single.domain.fluid.file | string /stdWrap | Template to use to render details of a domain. | EXT:egovapi/Resources/Pri vate/Templates/Fluid/Dom ain/Single.html |
| single.topic.fluid.file | string /stdWrap | Template to use to render details of a topic. | EXT:egovapi/Resources/Pri vate/Templates/Fluid/Topic /Single.html |
| single.service.fluid.file | string /stdWrap | Template to use to render details of a service. | EXT:egovapi/Resources/Pri vate/Templates/Fluid/Servi ce/Single.html |

[tsref:plugin.tx_egovapi_pi1.templates]

Marker-based Template

| Property: | Data type: | Description: | Default: |
|------------------------|-----------------|--|--|
| list.audience.standard | string /stdWrap | Template to use to render a list of audiences. | EXT:egovapi/Resources/Pri vate/Templates/Standard/ Audience.html |
| list.view.standard | string /stdWrap | Template to use to render a list of views. | EXT:egovapi/Resources/Pri vate/Templates/Standard/ View.html |
| list.domain.standard | string /stdWrap | Template to use to render a list of domains. | EXT:egovapi/Resources/Pri vate/Templates/Standard/ Domain.html |
| list.topic.standard | string /stdWrap | Template to use to render a list of topics. | EXT:egovapi/Resources/Pri vate/Templates/Standard/ Topic.html |





| Property: | Data type: | Description: | Default: |
|------------------------------|-----------------|---|--|
| list.service.standard | string /stdWrap | Template to use to render a list of services. | EXT:egovapi/Resources/Pri vate/Templates/Standard/ Service.html |
| single.audience.standar d | string /stdWrap | Template to use to render details of an audience. | EXT:egovapi/Resources/Pri vate/Templates/Standard/ Audience.html |
| single.view.standard | string /stdWrap | Template to use to render details of a view. | EXT:egovapi/Resources/Pri vate/Templates/Standard/ View.html |
| single.domain.standard | string /stdWrap | Template to use to render details of a domain. | EXT:egovapi/Resources/Pri vate/Templates/Standard/ Domain.html |
| single.topic.standard | string /stdWrap | Template to use to render details of a topic. | EXT:egovapi/Resources/Pri vate/Templates/Standard/ Topic.html |
| single.service.standard | string /stdWrap | Template to use to render details of a service. | EXT:egovapi/Resources/Pri vate/Templates/Standard/ Service.html |

[tsref:plugin.tx_egovapi_pi1.templates]

plugin.tx_egovapi_pi2

Global parameters for the selector extension.

| Property: | Data type: | Description: | Default: |
|--------------------|------------------|---|--|
| wsdlVersion | string /stdWrap | Version of the web service to use (at the moment, either "1.0" or "2.0") | 2.0 |
| wsdl | string /stdWrap | URL of the eGov API SOAP entry point. | empty Dynamically set according to wsdlVersion |
| cacheLifetime | integer /stdWrap | Lifetime of the WSDL result calls, in seconds. Use 0 for unlimited cache lifetime. | 604800 (1 week) |
| enableDebug | boolean /stdWrap | If set to "1", debug information will be output. | 0 |
| includeCHServices | boolean /stdWrap | If set to "1", services from swiss confederation will be included too (eCHcommunityID = 00-00). | 1 |
| template | string /stdWrap | Template to use to render the selector form. | EXT:egovapi/Resources/Pri vate/Templates/Pi2/form.h tml |
| data.communities | string | List of communities, in CSV format. | EXT:egovapi/Resources/Pri vate/Data/communities.cs v |
| data.organizations | string | List of organizations, in CSV format. | EXT:egovapi/Resources/Pri vate/Data/organizations_g eo.csv |
| service | string /stdWrap | Selected service for generating the parametrized URL. | GP:service |
| version | string /stdWrap | Corresponding service's version for generating the parametrized URL. | GP:version |
| parametrizedUrl | cObject | Configuration of the parametrized URL. | see TypoScript |
| latitude | string /stdWrap | Latitude of the user. | GP:lat |
| longitude | string /stdWrap | Longitude of the user. | GP:Ing |
| coordinates | boolean /stdWrap | If set to "1", coordinates of the organizations will be sent back during AJAX requests. Requires a list of organizations where coordinates are present in columns 5 and 6. | 1 |
| showGoogleMap | boolean /stdWrap | If set to "1", a Google Map will be used to geolocalize the selected organization. Property "coordinates" should be set to "1" as well and "data.organizations" should point to a list of communities providing latitude/longitude for each and every organization. | 1 |

EXT: eGov API - egovapi

| Property: | Data type: | Description: | Default: |
|-----------------|-----------------|--|--|
| ajaxLoaderLarge | string /stdWrap | HTML snippet used to show a large AJAX loading animation | IMG tag using EXT:egovapi/Resources/Pu blic/Images/ajax-loader- large.gif |
| ajaxLoaderSmall | string /stdWrap | HTML snippet used to show a small AJAX loading animation | IMG tag using EXT:egovapi/Resources/Pu blic/Images/ajax-loader- small.gif |

[tsref:plugin.tx_egovapi_pi2]



Tutorial

This tutorial is best suited for day-to-day webmasters or editors having to integrate the eGov API within their website. It assumes an administrator already properly installed this extension (see chapter Administration, page 19). It is targeted at users and as such section "Plugin options" of chapter User manual (page 5) is part of the basic know-how the webmaster or editor should have to be able to use this extension.

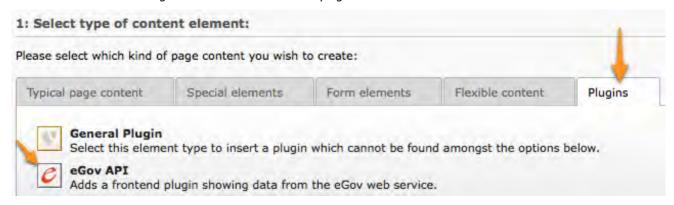
Use case

Description

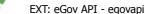
You would like to show the list of service domains available for the audience "Personne privée" (100) in some part of your website.

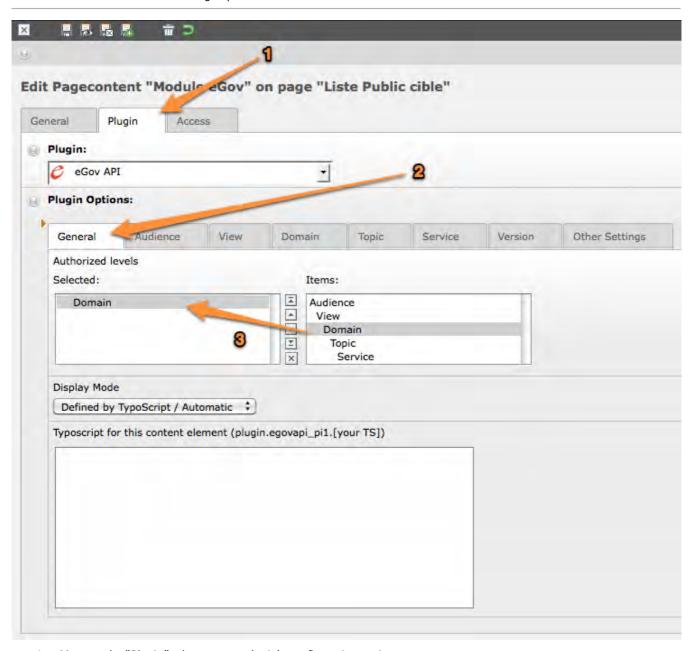
Step-by-step explanation

- 1. Open Web > Page module and navigate within your website to the page where you would like to add the eGov API
- 2. Click on icon to add a content element to your page
- 3. Move to section "Plugins" and select the eGov API plugin:



After having given a header to your content element as a best practice (possibly set its rendering Type to hidden), you should configure the eGov API plugin:

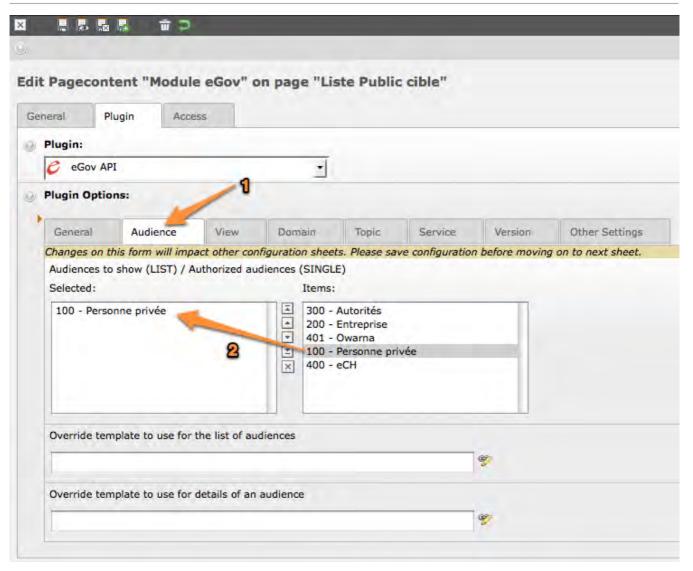




- 1. Move to the "Plugin" tab to access plugin's configuration options
- Select "General" option tab
- 3. Authorize level "Domain" to be shown. As this is the only selected level, it will be used as entry point for the plugin and will not allow navigation to other levels. If you need this, you may either add other authorized levels after the entry point level or configure redirect pages containing plugins for the other levels on "Other Settings" option tab.

Last step is to configure the plugin in order to only show the audience "Personne privée":





- 1. Select "Audience" option tab
- 2. Select audience "Personne privée".

That's it! If you show your page, you should have a list of domains related to the audience "Personne privée":

Domains

Vie privée (details)

Developer Manual

This chapter is really targeted at extension developers. Most TYPO3 integrators should never have the need to go that deep in order for them to configure the eGov API extension to fit their integration needs. If however you encounter some limitation you cannot solve using TypoScript configuration, you may want to read the following sections to learn how to take more control.

Hooks

Some hooks have been integrated into the eGov API extension. They are primarily targeted at letting you post-process the subparts and markers prior to the actual rendering process, when using marker-based templates or to post-process the AJAX returned data. Hooks have not been used for Fluid-based templates as you may achieve the same goal with TypoScript configuration or use of ViewHelpers.

Following hooks are available:

- Final post-processing: \$GLOBALS['TYPO3_CONF_VARS']['EXTCONF']['egovapi']['renderHook']
- Post-processing of audience subparts and markers: \$GLOBALS['TYPO3_CONF_VARS']['EXTCONF']['egovapi']['prepareAudienceHook']
- Post-processing of view subparts and markers: \$GLOBALS['TYPO3_CONF_VARS']['EXTCONF']['egovapi']['prepareViewHook']
- Post-processing of domain subparts and markers: \$GLOBALS['TYPO3_CONF_VARS']['EXTCONF']['egovapi']['prepareDomainHook']
- Post-processing of topic subparts and markers: \$GLOBALS['TYPO3_CONF_VARS']['EXTCONF']['egovapi']['prepareTopicHook']
- Post-processing of service subparts and markers: \$GLOBALS['TYPO3_CONF_VARS']['EXTCONF']['egovapi']['prepareServiceHook']
- Post-processing of AJAX returned data: \$GLOBALS['TYPO3_CONF_VARS']['EXTCONF']['egovapi']['ajaxHook']

API documentation

The latest API documentation may be manually generated using doxygen configuration file doc/doxygen.conf.

Alternatively, you may access it from http://api.causal.ch/egovapi/.

eGov web service

The eGov web service is documented by the corresponding WSDL.

When accessing this WSDL endpoint, XML schemas are defined as namespaces. The underlying XSD files may be retrieved by prefixing the namespace by http://ref.cyberadmin.ch/WS20/ServiceContract/. E.g., the schema of "dataCommonBlocks" may be accessed with http://ref.cyberadmin.ch/WS20/Service/Contract/MessageContract/DataContract/CommonBlocks.xsd.

Known problems

Please use the extension's bug tracker on Forge to report bugs: http://forge.typo3.org/projects/extension-egovapi/issues



Please use the extension's bug tracker on Forge to propose new features: http://forge.typo3.org/projects/extensionegovapi/issues

ChangeLog

The following is a very high level overview of the changes in this extension. For more details, see the ChangeLog file included with the extension or read it online.

| Version | Changes |
|---------|---|
| 2.0.0 | RDF output, semantic web integration |
| 1.5.0 | Added Google Map and loading mask support Localization files have been converted to XLIFF |
| 1.4.0 | Added support for both the existing web service and its upcoming new version Tested with TYPO3 4.6 |
| 1.3.0 | Added microformat markers (hCard) for the service's office Services are grouped by provider for the selector form plugin |
| 1.2.0 | Selector form plugin added |
| 1.1.0 | Completed German translation |
| 1.0.0 | Stable release Updated documentation with additional screenshots Updated templates with additional CSS classes |
| 0.9.0 | Further documentation |
| 0.8.0 | First release on TER |