How to contribute to ScienceMesh

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Various areas

API/Protocol Design

Documentation Website

Software Development

CI/CD

Monitoring/Insights
Everything happens on Github

sciencemesh
https://github.com/sciencemesh

https://github.com/sciencemesh

CS3 Organization
https://github.com/cs3org

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How to contribute?

1 – FORK

2 – PULL REQUEST

3 – DISCUSS & REVIEW

4 – MERGE
CS3 APIs – From proto to prod

AuthenticateRequest

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Label</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>opaque</td>
<td>cs3.types.v1beta1.Opaque</td>
<td>OPTIONAL</td>
<td>Opaque information.</td>
</tr>
<tr>
<td>type</td>
<td>string</td>
<td>REQUIRED</td>
<td>The type of authentication to use.</td>
</tr>
<tr>
<td>client_id</td>
<td>string</td>
<td>OPTIONAL</td>
<td>The id of the client. For basic authentication with username and password, both client_id and client_secret are expected to be filled. For example, for OIDC only a token is necessary.</td>
</tr>
<tr>
<td>client_secret</td>
<td>string</td>
<td>OPTIONAL</td>
<td>The secret of the client.</td>
</tr>
</tbody>
</table>

```
AuthenticatingRequest {
  opaque: &typespb.Opaque{
    Map: map[string]*typespb.OpaqueEntry{
      "Upload-Length": {
        Decoder: "plain",
        Value: []byte(strconv.FormatInt(md.Size(), 10)),
      },
    },
  },
}
```

Protocol Documentation

Table of Contents

cs3/gateway/v1beta1/gateway_api.proto 99
AuthenticateRequest
AuthenticateResponse
GetQuotaRequest
InitiateFileDownloadResponse
InitiateFileUploadResponse
ListAuthProvidersResponse
ListRecycleRequest
ListRecycleStreamRequest
OpenFileInAppProviderRequest
PurgeRecycleRequest
WhoAmIRequest
WhoAmIResponse
OpenFileInAppProviderRequest.ViewMode
GatewayAPI

cs3/gateway/v1beta1/resources.proto 100
#17. Remove duplicate IsInGroup method from user provider (#102)

ishank011 pushed 8a19a7f6 to master

00:17 • 24 days ago

build-and-publish — clone 00:04

1 Initialized empty Git repository in /drone/src/.git/
2 + git fetch origin +refs/heads/master:
3 From https://github.com/cs3org/cs3apis
4  * branch            master  -> FETCH_HEAD
5  * [new branch]      master  -> origin/master
6 + git checkout 8a19a7f60664d8c3f80b4e4634f8b30562e16abc -b master
7 Already on 'master'
CS3 APIs available in major languages

- cs3org/python-cs3apis
- cs3org/js-cs3apis
- cs3org/go-cs3apis
And in major package repositories (Go, Pypi, NPM)

---

Netherworld's Pretend Minibar

1 packages found

Sort Packages
Optimal
Popularity
Quality

@cs3org/cs3apis
JavaScript bindings for the CS3APIs to connect Storage and Application Providers

@alfageme
published 0.0.6 • 24 days ago

---

Results for “cs3apis”

Search help

1 – 10 of 36 results

github.com/cs3org/go-cs3apis/cs3/identity/user/v1beta1
Inter-Operability Platform

What is the IOP?

ScienceMesh is the Federated Science Cloud Mesh that connects existing and heterogenous sites in a transparent way. It is very important to ensure inter-operability that the sites are able to talk to each other independently of the technology stack. For such reason, the IOP is a component to be deployed in each site to ensure compatibility across sites and being able to join the mesh.

How deploy the IOP?
The IOP contains multiple components packaged into a K8S chart for easy deployment
What is Reva?

Reva

- Go server, ideal for systems engineering
- Multi-protocol: GRPC, HTTP, add your own (WebSockets, FTP, …)
- Implements various APIs: CS3APIS, OCM, WebDAV, OIDC, …
- Process management done as NGINX (kill, reload, …) to ensure prod safety
- No-nonsense config: `revad --config --pid /var/run/revad.pid`
- Modules to extend GRPC services: storages, auth mechanisms, …
- Modules to extend HTTP services
- Service discovery, clustering, … left to other technologies (K8s, etcd, …)
- Keep it minimal and simple
Reva – Documentation and Forum

Documentation / Configuration / Packages / auth / manager / oидc

oidc
Configuration for the oidc service

struct: config

insecure bool false
Whether to skip certificate checks when sending requests. [Ref]

https://reva/link

https://reva/link
https://gitter.im/cs3org/REVA
1. License check – ensure software remains open
2. Security vulnerability check
3. Run unit tests and linters
v1.5.1

Changelog for Reva v1.5.1 (2021-01-19)

The following sections list the changes in rea v1.5.1 relevant to rea users. The changes are ordered by importance.

Summary

- Fix #1401: Use the user in request for deciding the layout for non-home DAV requests
- Fix #1413: Re-include the 'git' dir in the Docker images to pass the version tag
- Fix #1399: Fix ocis trash-bin purge
- Enh #1397: Bump the Copyright date to 2021
- Enh #1398: Support site authorization status in Mentix
- Enh #1393: Allow setting favorites, mtime and a temporary etag
- Enh #1403: Support remote cloud gathering metrics

4. Enforce changelog to avoid surprises when upgrading
5. We store daily commit releases
6. Docker images are created daily
Major areas for improvement, want to help?

- Documentation and how-to tutorials
- Package distribution using native package managers (RPM, APT, Snapcraft, Flatpack, …)
- Runtime plugins
- More testing (unit, end to end)
- Benchmarking (stress tests, …)

https://gitter.im/sciencemesh
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