

Minutes of the HTTP REST TAPE API meeting (25th of February 2022)

Goal of the meeting

- .well-known mechanism
- ARCHIVEINFO CERN's point of view

Discussions

.well-known mechanism

We have discussed and agreed that the .well-known endpoint will contain the following:

```
GET  
https://eosctaatlasis.cern.ch:8443/.well-known/wlcg-tape-rest-api  
{  
    "sitename": "cern-prod-tape-atlas",  
    "description": "This is the CERN tape REST API endpoint for EOSC  
CTA ATLAS",  
    "endpoints": [  
        {  
            "uri": "https://eosctaatlasis.cern.ch:8443/tape-rest-api/v1",  
            "version": "v1",  
            "metadata": {  
                //Implementation specific fields, for version 1 it's a  
free object  
            }  
        }  
    ]  
}
```

Field name	Description
sitename	The REST API identifier that will have to be used for the targeted metadata.
description	Human readable description about the REST API endpoint
endpoints	Contains all the available tape REST API endpoints. There will be one endpoint object per version of the REST API

uri	The URI that has to be used in order to call the tape REST API.
metadata	Free field that any storage provider can fill with what they would like

From the .well-known content, the client may submit files for staging by doing:

```
POST https://eosctaatalas.cern.ch:8443/tape-rest-api/v1/stage
{
  "files": [
    {
      "path": "/test/test.txt",
      "targetedMetadata": {
        "cern-prod-tape-atlas": { //sitename
          "activity": "atlasdaq"
        }
      }
    }
  ]
}
```

ARCHIVEINFO CERN's point of view

What we had proposed during the meeting of the 18th of February for the ARCHIVEINFO message was:

```
[
  {
    "path": "/test/file.txt",
    "locality": "DISK, TAPE, DISK_AND_TAPE, NONE",
    "error": "No archive route has been set"
  }
]
```

The concern was about the case where files do not exist. What is the locality of the files that do not exist?

We decided to not return the locality object if the file does not exist. This will give:

```
[
  {
    "path": "/test/file.txt",
    "error": "File does not exist or is not accessible to you"
  }
]
```

New stage cancel semantics

After some discussion, the semantic of the stage cancellation was revised.

New semantic: Indicates that the client has no interest in the file, the server may cancel the staging and the server may release the disk copy.

The client cancels and forgets about the file.

After cancelling, the client does not need to call `release`.

Next steps

Cedric will update the reference document and circulate it to dCache and StoRM. There is no other tape REST API meeting planned.

If a stakeholder would like to organize a new meeting, has questions or remarks, they can contact everybody via the wlcg-tape-rest-api-discussions@cern.ch mailing list.