Indico Drupal Module

Indico Team, 2011

Indico Export API

Base URL

`http://indico.cern.ch/export/`

Features

- Simple and secure authentication mechanism (configurable);
  - API key for public events;
  - API key + signature for private events;
- Multi-format support (`JSON`, `XML`, `Atom`, `ICS`, `HTML`);
- Extensible - plugins can add their own extension points and formats;
- Format-agnostic request cache;
  - Uses Indico's abstract caching mechanism (text files / `memcached`).

Authentication

Public events - API key

- Each user has an API key;
- API key has same access privileges as user;
- API keys can be blocked.

Private events - API key + signature

- Each user has a secret key;
- `signature = hash(timestamp + parameters + secret)`
- Limited clock skew.

Documentation

`http://indico.cern.ch/ihelp/html/ExportAPI`

Example

Query

`http://indico.cern.ch/export/categ/1l2.json?from=today&to=2d&pretty=yes&apikey=3848e2b8-7dba-4e33-9728-e73c682838e4`

Result

```
{
"count": 7,
"additionalInfo": {
    "eventCategories": [
        ...
    ]
},
"_type": "HTTPAPIResult",
"complete": true,
"url": "https:\/\/indico.cern.ch\/export\/categ\/1l2.json?from=today&to=2d&pretty=yes&apikey=3848e2b8-7dba-4e33-9728-e73c682838
"ts": 1320162281,
"results": [
        ...
] }
```

Event

```
{
"category": "Working Groups and R&D projects",
"startDate": {
    "date": "2011-11-01",
    "tz": "Europe\/Zurich",
    "time": "16:00:00"
},
"_type": "Conference",
"endDate": {
    "date": "2011-11-01",
    "tz": "Europe\/Zurich",
    "time": "18:10:00"
},
"description": "",
"title": "ATLAS muon chambers R&D on micromegas ",
"url": "http:\/\/indico.cern.ch\/conferenceDisplay.py?confId=137850",
"categoryId": "1390",
"location": "CERN",
"_fossil": "conferenceMetadata",
"timezone": "Europe\/Zurich",
"type": "meeting",
"id": "137850",
"room": "Room B"
}
```

Drupal plugin

- Developed by Adrian Mönnich;
- Creates feeds out of events belonging to one or more categories;
- Supports API key and Indico's request signing protocol (private events);
- Creates two views for events:
    - Compact;
    - Detailed (description).

Demo

```
http://pcituds07.cern.ch/drupal
```

Conclusion

- We have built a tool that:
  - Allows to easily import events from Indico;
  - Provides a (unidirectional) "data bridge" between two different, complementary CMSs;
  - Transparently handles synchronization between the two systems;
  - Integrates seamlessly with the Drupal framework;
  - Represents an added value to CERN's web ecosystem;
  - Is the ultimate test case for our new HTTP frawework.

Questions?