



REFEDS Workpackage 4-13

MET 2 Requirements

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Abstract:

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1. Background

In 2012, REFEDS commissioned Yaco Sistemas to work on a Metadata Explorer Tool as per the requirements defined in the REFEDS MET Requirements document:

https://refeds.terena.org/images/d/df/REFEDS-MET-REQUIREMENTSv_2.pdf.

This work has now been completed and the following deliverables are available:

- MET demo site: <http://beta.terena-met.yaco.es/>.
- MET code is available on Github: <https://github.com/Yaco-Sistemas/met>.
- MET documentation is available at: <http://beta.terena-met.yaco.es/doc/>.

REFEDS is now calling for proposals to develop MET phase 2 from organisations and individuals within our community. It is expected that work on MET phase 2 will take place between June and September 2013. Parties interested in bidding for this work should follow the process set out in sections 5 and 6 below.

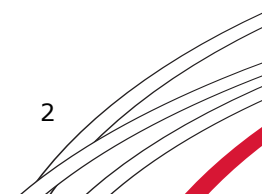
2. Scope:

Phase one of the development work focused on providing basic functionality to get an idea of the look and feel of such a tool and how it might interact with federations and interfederations. The requested features from Phase one are listed in Annex 1 to this document, along with details on how far these features have been achieved.

Phase two should take the initial MET development and take it to the stage where it can become a usable tool for the REFEDS community. This phase should implement all of the features noted in feature requests below. Additional suggestions from potential developers are welcome.

3. Feature Requests:

- Ensure that metadata for federations automatically refreshes. Where refresh fails, send an alert to contact@refeds.org.
- Enable federated sign-on for the tool.
- Where entities appear in multiple federations, show a count column with the number of federations displayed as a figure.
- Allow tables to be sortable by column heading.
- Enhance the 'most federated' list to enable click through to a longer list of entities.
- Display MDUI DisplayName where available for entities.
- Enhanced editable fields for federations enabling federations to tag the following things:
 - Type of federation (hub and spoke / mesh);
 - Link to fee schedule for federations;
 - Other information?
- Make use of visual graphics for each display screen, similar to that seen in the Eduserv Metadata Explorer. This should show changes over time as well current data.
- Enable a comments field for each entity, with an automated alert to



contact@refeds.org when comments are added.

- An "I'd like this entity..." button on each entity page that links to a form with options such as 'in federation x' or 'in edugain'.

4. Features Parked for Phase 3:

- Possibility of metadata validation in conjunction with Federation Labs or REEP.
- Enable a pop-up box to display the full metadata from a given entity.

5. Proposal Requirements:

Parties interested in undertaking this work should submit a short proposal to contact@refeds.org by 30 May 2013. The proposal should:

- Be no more than 5 A4 pages in length.
- Include a full budget breakdown.
- Include a brief CV of the individual(s) involved.
- Describe how the proposal will build on the existing MET work, highlighting and explaining any deviations from the current structure.
- Commit to delivering code in accordance with the REFEDS Participant Agreement: https://refeds.org/about_agreement.html.
- Commit to delivering documentation in accordance with the REFEDS Participant Agreement: https://refeds.org/about_agreement.html.

6. Process:

This requirements document will be made available to the REFEDS Community and wider groups on 02 May 2013. Interested parties will have four weeks in which to submit a proposal, and are encouraged to discuss potential bids with the REFEDS Coordinators via contact@refeds.org. Proposals should be submitted to contact@refeds.org by no later than midday on 30 May 2013 (CET).

The REFEDS Steering Committee will consider the bids in conjunction with the REFEDS Coordinators. The successful bidder will be informed no later than 2 weeks after the submission date.

7. Reference Implementations:

Various tools have been developed that deliver MET-like features in beta demonstrations. The following tools should be examined to help inform the development work:

- SAML Metadata Viewer: <http://wayf.aco.net/smev/>.
- Eduserv Metadata Explorer: <http://wayf.labs.eduserv.org.uk/metadata-explorer/>.
- Edugain Metadata Validator: <https://www.edugain.org/Metadata/>.
- TERENA Federation Service Catalogue: <http://www.terena.org/~schofield/servicecatalogue/>.



Annex 1: Initial Feature Requests for MET Phase 1

These were the original feature requests for MET. Focus for this stage of development should be the feature requests in section 3 of this document. This is for background information only.

1. Current prototypes should be developed with a focus on graphic visualization of the data (partially achieved).
2. The following features should be developed:
 - What services does each federation offer? (achieved)
 - How many offer service X? (partially achieved)
 - Does federation A participate in eduGAIN? If yes, how which services of federation A are available via eduGAIN? (partially achieved)
 - Show the services of Federation A for which a fee is needed (not achieved)
 - Does federation A have richer metadata about entity than federation B? (not achieved)
 - Does federation A charge IdPs? Charges SPs? Charges both? (not achieved)
 - What technology does Entity A use? (shibboleth, simpleSAMLphp etc.)

Annex 2: Use Cases from Initial Requirements Gathering

REFEDS Use Cases:

- A tool to support news / blog pieces. By getting a view of the amalgamated federation metadata, it is possible to pick out highlight news like the total number of entities in federations, most connected services, rate of adoption of MDUI information etc.
- To replace the current manual update of federation information on the wiki and the website.
- To support the efforts of REF1 within the REFEDS workplan, particularly in relation to Service Provider relationships through contact information.
- To identify non-standard practises in terms of metadata generation that may impact interfederation.
- Monitoring changes in federation use and shape over time.

Other Use Cases:

- EGI.eu want to know how many IdPs are in use and whether they overlapped with those that use IGTF issued Grid certificates (so that they could encourage TCS eScience rather than country Grid CAs).
- An emerging federation is interested in adoption and wants to know "What do people connect to their ID federations?"
- eduGAIN wants to "prove" how eduGain can add value to IdPs and SPs of participating federations.

