Ladies and Gentlemen,  
I am from Czech Technical University in Prague, Czech Republic. I am a representative of a group of people from different departments of our university. Namely Central Library and Computing and Information Centre.
In my speech I would like to continue on from a presentation my colleagues had at this forum two years ago in Helsinki. In 2014 my colleagues presented a technical and process solution of the interconnection of university repository on DSpace platform with other parts of the university information system.
The whole project of interconnection covered typical source systems like a study information system and a research information system. From which we fully automatically filled the target systems like the university repository and library system. The whole system cooperates with the identity management system. That ensures that each user is in every system identified by a personal number (cvutID). All this is possible thanks to the creation of the new RESTfull API for DSpace with the new possibility of a writing operation.

Since 2014 we have moved forward and adopted ORCID ID as another identifier of our scholars next to their personal number - cvutID. We became a member of ORCID and provided our scholars with the possibility of getting an ORCID ID directly from our identity management system. Thanks to this and the steps that we made before, the ORCID ID is automatically downloaded in every system of our university.
Of course during the implementation of ORCID several problems occurred. One of them was how to get the ORCID ID together with the personal number in DSpace. DSpace has an authority module which can assign to the internal DSpace identifier in UUID format only one external identifier. Which might be fine for people who only want to use it for the ORCID ID. But in our case we needed at least two identifiers – the ORCID ID and the personal number. Because only via the personal number can we secure the correct synchronization during the fully automated data transfers.
During the process of importing metadata to DSpace the author’s name used to be saved just as a string and it resulted in duplicities.
The new authority control allows for putting the name and ORCID ID together. But we changed it and put together name and personal ID. Then during the import it is possible to find out whether the author’s personal ID already exists in DSpace or not. UUID is then either assigned and the authority might eventually be updated, or newly created.
Our enhancement means the creation of another process which joins DSpace authority with ORCID ID. But it could be any other ID, e.g. ResearcherID, Scopus Author ID or even just a login name. This process works independently, no matter when the ID or authority was created. Therefore we extended RESTful API for DSpace, which we already modified before, with the functions that allow searching by IDs and storing data dependent on them.
And now it’s time for some pictures from DSpace. This slide shows how it looks if the author in the record has assigned ORCID ID. It is possible to click on the eye and you can get the full author’s record in DSpace.
Viewing authority record – full record

Musil, Tomáš

Information

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Authorities

<table>
<thead>
<tr>
<th>key</th>
<th>value</th>
</tr>
</thead>
<tbody>
<tr>
<td>orcid-id</td>
<td>0000-0003-4535-1595</td>
</tr>
<tr>
<td>cvit-id</td>
<td>308548</td>
</tr>
</tbody>
</table>

Items

<table>
<thead>
<tr>
<th>name</th>
<th>handle</th>
<th>role</th>
<th>community</th>
<th>collection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Návrh a realizace virtuální laboratoře pro výuku programovatelných hradobojních policy</td>
<td>1046.764366</td>
<td>author</td>
<td>katedra dělnické pedagogik</td>
<td>Bakalářské práce - 32151</td>
</tr>
<tr>
<td>Využití evolucičních technik při hledání parametrů dopravních systémů</td>
<td>1046.763924</td>
<td>referee</td>
<td>Ústav aplikované informatiky v dopravě</td>
<td>Bakalářské práce - 16114</td>
</tr>
</tbody>
</table>

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Generally most of the records are being imported to DSpace automatically from different parts of the university information system. In the case we will need to submit a new item in DSpace manually it is possible to look up the author in a new index.
It is possible to look up the author either by name or ORCID ID or personal number. The same look up box appears in case of editing a previously imported record.
Then you can see all other identifiers together with previous records and it is easier for you to assign the new item.
If you are interested in what I was talking about, here are links to get know more. The first one links to the previous presentation from Helsinki and the second one links to our enhancement of RESTful API at GitHub.

- OPEN REPOSITORIES 2014, Helsinki, Finland

- Source codes at GitHub
  https://github.com/ctu-developers/DSpace-REST-client
  https://github.com/ctu-developers/DSpace/tree/dspace-5.5-authority
Thank you very much for your attention, and if you have any questions you can contact us on these emails.