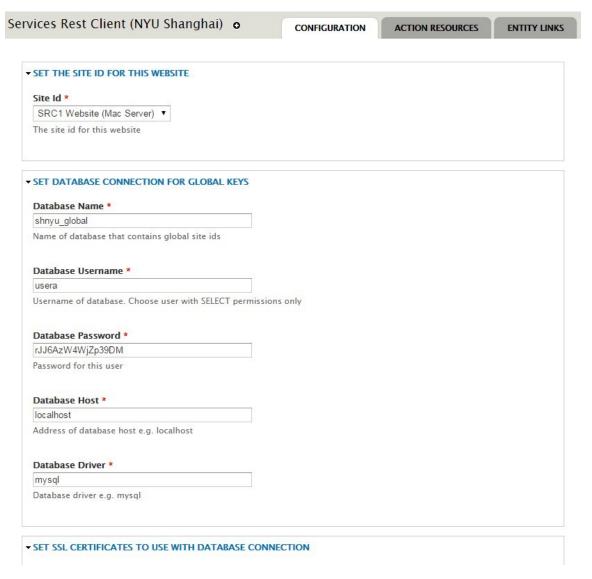
# **Druapl7 Custom Module - Services Rest Client (For Portal Data Synchronization)**

This custom module was developed for New York University. It provides distributed client/server REST content sharing across 2 or more Drupal websites (works in collaboration with services, services entity modules)

### 1. Configuration

Works with remote database to setup global sites key for use by all portal websites (supports SSL connection to database)



### 2. Share Content

By creating action resources that define which node types to share, you can choose which types of content to push to other portal sites. For example, filter content by their content type and term references. Turn action resources "on" and "off" on the fly for more control on data sync



Now creating, editing or deleting content that match the resource criteria will be translated to other portal site



Or creating or updating a vocabulary and defining it in an action resource will push the vocabulary content to the other portal site

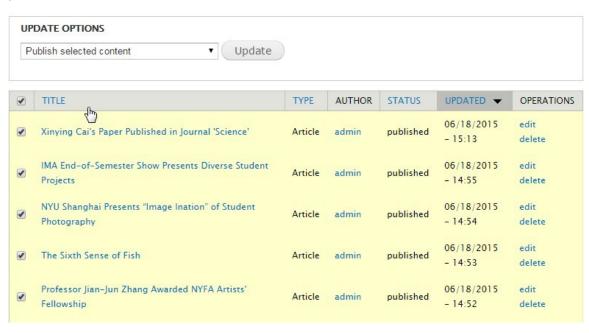


Examples of content type that can be pushed

- Files: txt, pdf, doc, docx, ppt, zip, rar, mp4, mov
- Nodes
- Vocabularies, terms
- Nodes with reference to vocabularies and terms

### 3. Data Migration: Bulk migrate data to other portal site on the fly

Accumulate content on one site and when you're ready bulk push them to another portal site



- · Xinying Cai's Paper Published in Journal 'Science' created on src2
- IMA End-of-Semester Show Presents Diverse Student Projects created on src2
- NYU Shanghai Presents "Image Ination" of Student Photography created on src2
- · The Sixth Sense of Fish created on src2
- Professor Jian–Jun Zhang Awarded NYFA Artists' Fellowship created on src2
- NYU Shanghai Cafeteria Undergoes Menu Transformation created on src2
- NYU Shanghai Launches Student Gift Design Competition created on src2
- Undergraduate Research Accepted to Prestigious Conference created on src2
- · NYU Shanghai to Launch First-Ever Festival of the Arts created on src2
- NYU Shanghai Develops New Method of Teleporting Macroscopic Objects created on src2

The same content appear on other portal site, with the actual content data stored in its own local database



## 4. Amazon S3 File Storage

Pushed content files may be stored on Amazon S3. However, portal site pulling content will only store and reference files natively within its server instance



# NYU Shanghai Presents "Image Ination" of Student Photography



img 480px × 203px 2014, NYU Shanghai's first floor exhibition room was transformed into the "Image Ination" gallery, where art professors Barbara Edelstein and Jian-Jun Zhang joined their students in showcasing an array of photography works.

Students used a myriad of tools learned over the course of the semester, creating compositions that detailed photographic juxtapositions, an implicit attention to textures, simplicity, symbolism, poetry, and even the combination of video and audio to evoke a fuller sensory experience.

Student Cynthia Chau's photo installation, Looking Up, gave thought to "light as the subject of the picture itself" and featured a hanging photograph of a "1920s-styled stained glass chandelier" photographed in Shanghai's Peace Hotel, interacting with its audience by casting light around them



# 5. Link Data with another Portal Site: Use with existing same data on other portal site

If you have content that already exists on other portal sites, you can choose to link them to your current site, so that changes in one will update on the other. The system will smart match potential content to link as defined in the action resource.

Pick and choose individual pieces of content to link. The first 5 columns on the left display content for current portal site. The other 5 columns for content on other portal site.

Once the contents are linked, editing them on the current site will update those changes on the other site

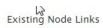


Potential matching data with src2 according to the resource criteria

	ID	TITLE	TYPE	CREATED	STATUS	REMOTE ID	REMOTE TITLE	REMOTE TYPE	REMOTE CREATED	REMOTE STATUS
0	8	NYU Shanghai Global Academic Fellows Present Winter Fellowship Projects	article	18/Jun/2015	1	3	NYU Shanghai Global Academic Fellows Present Winter Fellowship Projects	article	17/Jun/2015	1
	9	Celebrate Pi Day with Math Society	article	18/Jun/2015	1	6	Celebrate Pi Day with Math Society	article	18/Jun/2015	1
	10	Spotlight Artist: Jian- Jun Zhang's Upcoming Solo Exhibitions	article	18/Jun/2015	1	7	Spotlight Artist: Jian-Jun Zhang's Upcoming Solo Exhibitions	article	18/Jun/2015	1
	11	NYU Shanghai Develops New Method of Teleporting Macroscopic Objects	article	18/Jun/2015	1	8	NYU Shanghai Develops New Method of Teleporting Macroscopic Objects	article	18/Jun/2015	1
	20	NYU Shanghai to Launch First–Ever Festival of the Arts	article	18/Jun/2015	1	12	NYU Shanghai to Launch First-Ever Festival of the Arts	article	18/Jun/2015	1
	21	Undergraduate Research Accepted to Prestigious Conference	article	18/Jun/2015	1	13	Undergraduate Research Accepted to Prestigious Conference	article	18/Jun/2015	1

# 6. View existing Data Links with other Portal Sites

See list of content that are linked to other portal sites



	CLIENT NID	SERVICE NID	SERVICE SITE ID
ı	4	4	src2
2	6	3	src2
3	7	5	src2
1	9	6	src2
5	25	17	src2
5	30	24	src2

#### **How to Use**

Decide each portal site for push and pull content. Configure action resources in admin UI. Once this is setup, you can the edit content and changes will be made on other portal sites

#### Push vocabulary term data

- 1. Login portal site 1, using provided test account
- 2. Go to admin > structure > Tags. Add a new term, and save
- 3. Login portal site 2, using provided test account
- 4. Go to admin > structure > Tags. View list terms confirm term has been pulled successfully

## Push content with matching term references

- 1. Login portal site 1, using provided test account
- 2. Go to admin > content > add content. Select "Article"
- 3. Insert some data such as text, images, video, files etc.
- 4. Under section "Article Type Terms" select "News"
- 5. Under section "Article Tag Terms" select "Campus Life"
- 6. An article created with steps 4 and 5 above will match an action resource already created
- 7. Save the article
- 8. Login portal site 2, using provided test account
- 9. Go to admin > content
- 10. Select the content piece that you just created on porta site 1. Confirm that the content has been pulled successfully