


Drupal7 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)

Services Rest Client (NYU Shanghai) 

CONFIGURATIONACTION RESOURCESENTITY LINKS

▼ SET THE SITE ID FOR THIS WEBSITE

Site Id *

SRC1 Website (Mac Server) ▼

The site id for this website

▼ SET DATABASE CONNECTION FOR GLOBAL KEYS

Database Name *

shnyu_global

Name of database that contains global site ids

Database Username *

usera

Username of database. Choose user with SELECT permissions only

Database Password *

rJJ6AzW4WjZp39DM

Password for this user

Database Host *

localhost

Address of database host e.g. localhost

Database Driver *

mysql


Database driver e.g. mysql

▼ SET SSL CERTIFICATES TO USE WITH DATABASE CONNECTION


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

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Services Rest Client (NYU Shanghai) 

CONFIGURATION ACTION RESOURCES ENTITY LINKS

	TARGET SITE ID	SERVICE END POINT URL	RESOURCE NAME	TARGET ENTITY TYPE	TARGET RESOURCE TYPE	STATUS	EDIT	LINK RESOURCES 
1	src2	http://web.shanghai.nyu.edu/src2/rest/	Article (+Article Type Term=News+Article Tag=Campus Life) - SRC2	node	article	Inactive	edit	Link Entities
2	src2	http://web.shanghai.nyu.edu/src2/rest/	Tags Vocabulary - SRC2	taxonomy_vocabulary	tags	Active	edit	Link Entities
3	src2	http://web.shanghai.nyu.edu/src2/rest/	Article Type Vocabulary - SRC2	taxonomy_vocabulary	article_type	Active	edit	Link Entities

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

Xinying Cai's Paper Published in Journal 'Science' created on src2

 Article *Xinying Cai's Paper Published in Journal 'Science'* has been updated.

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[View](#) [Edit](#)

Submitted by [admin](#) on Thu, 06/18/2015 - 15:12

Xinying Cai's co-authored paper "Neural Correlates of Strategic Reasoning during Competitive Game" was published online in Science Magazine on September 18. This paper identified the dorsal medi


Navigation

- [Add content](#)

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

Home » Administration » Structure

Article Type" updated on src2

 Updated vocabulary *Article Type*.

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

UPDATE OPTIONS

Publish selected content ▼ Update

<input checked="" type="checkbox"/>	TITLE	TYPE	AUTHOR	STATUS	UPDATED ▼	OPERATIONS
<input checked="" type="checkbox"/>	Xinying Cai's Paper Published in Journal 'Science'	Article	admin	published	06/18/2015 - 15:13	edit delete
<input checked="" type="checkbox"/>	IMA End-of-Semester Show Presents Diverse Student Projects	Article	admin	published	06/18/2015 - 14:55	edit delete
<input checked="" type="checkbox"/>	NYU Shanghai Presents "Image Ination" of Student Photography	Article	admin	published	06/18/2015 - 14:54	edit delete
<input checked="" type="checkbox"/>	The Sixth Sense of Fish	Article	admin	published	06/18/2015 - 14:53	edit delete
<input checked="" type="checkbox"/>	Professor Jian-Jun Zhang Awarded NYFA Artists' Fellowship	Article	admin	published	06/18/2015 - 14:52	edit delete

- 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


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

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Link Resource 


Link Data With src2

Potential matching data with src2 according to the resource criteria

<input type="checkbox"/>	ID	TITLE	TYPE	CREATED	STATUS	REMOTE ID	REMOTE TITLE	REMOTE TYPE	REMOTE CREATED	REMOTE STATUS
<input type="checkbox"/>	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
<input type="checkbox"/>	9	Celebrate Pi Day with Math Society	article	18/Jun/2015	1	6	Celebrate Pi Day with Math Society	article	18/Jun/2015	1
<input type="checkbox"/>	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
<input type="checkbox"/>	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
<input type="checkbox"/>	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
<input type="checkbox"/>	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

Existing  Node Links

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