Uploading and Saving Networks

Last updated: September 27th, 2017

There are several ways to upload a network to NDEx: users can upload directly from Cytoscape, can use a programmatic approach or simply upload a file through the web user interface. This guide describes how to load a network to NDEx using the web user interface.

IMPORTANT NOTE: The screenshots in all our user manuals are for training purposes and might be different from the actual screen output you will obtain when working on the current NDEx version deployed to our public server.

Uploading Networks

- At this time, the NDEx web UI only allows the upload of networks in CX format.
- In your MyAccount page, Click the Upload Networks option.

CONDEX About Docs API	Report Bug	Contact Us	Cite NDEx	Networks -	NDEx Networks	Q	Ne	etwork	MyAccount	Sign Out
	Networks	Groups	Tasks & Notification	S						
C ST					No networks to display					
New User										
newuser										
I'm a noob!										
Actions:										
Upload Networks										
Create Group										
Edit Account -										

• Select the file to upload by using the Choose file button in the upper left corner

Groups - NDEx Gr	roups		٩	Network MyAccour	nt •
Select files Choose File No file chosen	My Network Files to Upload Gueue length: 1 Name	Size	Progress Status	Actions	
First select network files for uploading in SIF, XBEL, or XGMML format	large_corpus_unzip.xbel	81.03 MB		O Upload O Cancel	
Then upload the files - they will be temporarily stored on NDEx for processing	Queue progress:				
Each uploaded file is assigned a network loading task, displayed at the bottom of this page	O Upload all O Cancel all				
The status of each file will update as NDEx processes it					
	My Network Loading Tasks on NDFy				

- Click on the green Upload button to begin the process.
- Alternatively, select multiple files and upload them at once by clicking Upload all.

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		My Network Loading Tasks on NDEx								

- Once the process is complete, a new task will be created. The task is a pending action that the NDEx system will resolve.
- You can view a network loading task at the bottom of the screen.

	Gr	oups 🕶	NDEx G	roups							٩	Network	MyAccount	t -
Select file Choose File No	-	n		Queue leng		Files	s to Upload							
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• You can also view the status of a task in the Tasks & Notifications tab of your 'My Account" page.

SNDEX About Docs API	Report Bug Contact Us Cite NDEx	Networks NDEx Networks	Q	Network MyAccount
	Networks Groups Tasks & Notifications	Delete All		
New User	PROCESS_UPLOADED_NETWORK network_renamed_from_KAM_xgmml complete	d T	•	
I'm a noob!				
Actions:				
Upload Networks				
Create Group				
Edit Account -				

• The status will change during the upload process. When the task is done, you will see the status change to completed. At this point, the network will be in the system and appear at the top of the list in the Networks tab of your "My Account" page.

Saving a Subnetwork

- A subnetwork (or neighborhood) is the result of a specific query on a larger network. In this example, we select the BEL Small Corpus Document and run a query for "akt1": the system will return a subnetwork consisting of 79 nodes and 79 edges related to the term akt1.
- The query result can be saved as a new network using the Save Query Result function (red arrow).

BEL Framework Small Corpu	s	Que	ery Result		
Document		node	s: 79 edges: 79		
Nodes: 1598 Edges: 2174					
Description: Approximately 2000 hand curated statements drawn from 57 PubMeds	complex(p(HGNC:SKP2));				
Reference:	cat(p(HGNC:BAD))	p(HC act(p(HGNC:PAWR))	GNC:BAWWR, pm16#01(P0/b)GNC:BAWR)) kin(p(H	(GNC:PDPK1))	
Version: 1.2		aci(p(HGNC.PAWR))			
PUBLIC		kin(p(HGNC:AK	T1))		C BADK
Read Only	a(SCHEM:LY-2	94002)	Nn(p(HGNC:GSKARDONCCDKN1A)		IC MAPK
		ex(p(HGNC:AKT), p(HGNC:C)		KT1, pmod(P, S, 473))	
Your Access Privileges: Admin Other Admins: None BEL Namespaces: Not Archived	act(p(PFH:14-3-3 Family	y)) bel directly increases tloc (p(PF	REBBP)) p(HGNCA) H <mark>E</mark> DXO Family), MESHCLCell Nucle agy Sel: directly in <u>cr</u> eases deg (p(PFH:F	eus, MESHCL:Cytoplas	m)
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Other Admins: None BEL Namespaces: Not Archived Actions: Edit Network Profile Export Network Manage Access	act(p(PFH:14-3-3Family) loc (p(PFH:FOXO Family), MESH Back To Original Network Back To Original Network	y) beidirectlyncreases tioc(p(PF C_Cytoplasm,)d	 Object 	eus, MESHCL:Cytoplas OXO Family))	Cardiovascula
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• The new network is now visible at the top of the list in the on the user's "My Account" page.

00	N	etworks Groups Tasks & Notifications							
		Network Name	Format ~	Nodes ~	Edges ~	Visibility ~	Owned:	Last Modified	
NDEx Tutorials		BEL Framework Small Corpus Document Simple Query Terms = akt1 at	BEL	79	79	PRIVATE	ndextuto	Feb 28, 2016	~
ndextutorials		BEL Framework Small Corpus Document	BEL	1598	2174	PUBLIC	ndextuto	Feb 28, 2016	
http://www.ndexbio.org		Metabolism of RNA	SIF	361	4344	PUBLIC	ndextuto	Feb 27, 2016	
This account is for trai ning and demo purposes o		Metabolism of proteins	SIF	2380	11724	PUBLIC	ndextuto	Feb 27, 2016	
nly and its content migh		Metabolism	SIF	4231	17253	PUBLIC	ndextuto	Feb 27, 2016	
t be outdated.		Biosynthesis of sterols	BIOPAX	267	382	PUBLIC	ndextuto	Feb 26, 2016	
		Hox_NVC4 - CX format	Unknown	32	33	PUBLIC	ndextuto	Feb 26, 2016	
Actions:		Calmodulin induced events	SIF	11	27	PUBLIC	ndextuto	Feb 26, 2016	
Upload Networks		BEL Framework Small Corpus Document	BEL	37	37	PUBLIC	ndextuto	Feb 26, 2016	
opidad networks		Hox_NVC4	XGMML	32	33	PUBLIC	ndextuto	Feb 26, 2016	

Editing the Network Profile

• As an admin of the new network you just saved, the signed-in user can modify the network profile information. To do so, click the new subnetwork you just saved and select the "Edit Network Profile" function.

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Docum Terms : Nodes: 79 E PRIVATE Read Onl Created: Fel UUID: ebe87	Ŷ	ery, 1							kana Sara Tangkan Sara Sara Sara				
Other Admir													
Actions:	etwork Profile		Network Te		Depth: 1-	step 💌	Run Query				A	dvanced Quer	Y
Exp	ort Network		Subject	10000 r.1040		Predicate	~	Object		Citations	~ (Cardiovascul	a
Man	age Access												
Archive 8	BEL Namespaces		path(MESHD:A	therosclerosis)		positiveCorre	lation	bp(GO:lipid	l oxidation)	1	1	Arteries	
Dele	ete Network		path(MESHD:A	therosclerosis)		positiveCorre	lation	bp(GO:prot	ein oxidation)	1	/	Arteries	1
			a(CHEBI:L-argi	inine)		decreases		path(MESH	D:Atherosclerosis)	1			

- Besides changing the network name, adding a description, a publication reference and a version number, you can also control the visibility and accessibility of a network that you administrate.
- By default, your new subnetwork will be **PRIVATE**: this means you are the only one who can see it and the network will not be displayed when any other user runs a search.
- You can change the visibility to **PUBLIC** if you want the network to be readable by anyone, even anonymous users (users that are not logged in to an NDEx account.)

NDEX About Docs API Report Bug	Contact Us Cite N	Networks -	NDEx Networks	Q				
	Edit Network Pr	ofile						
BEL Framework Small Corpus Document: Simple Query, Terms = akt1 at Depth 1	Name	NEW AKT1 network						
Nodes: 79 Edges: 79		HET ART HELION						
PRIVATE	Description	H3 H4 H5 H6 P p	e B I ⊻ Ø ≡ ≐					
Created: Feb 28, 2016 UUID: ebe87873-de7c-11e5-a839-06832d634f41		This <u>subnetwork</u> was o Corpus Document for "a	btained by querying the Small ikt1" at a depth of 1	E				
Your Access Privileges: Admin Other Admins: None BEL Namespaces: Not Archived								
Actions:	Reference			*			Advanced C	Query
Edit Network Profile				E				
Export Network						Citations ~	Cardiovas	scula
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Archive BEL Namespaces						1	Arteries	-
Delete Network	Version	1.0				1	Arteries	
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