Release Testing - 1.10.0

- Testing Blocker Tickets
- Testing Plan
    - Prepare installation (build from source)
    - Sanity Builds
    - New Installation Tests
        - UI Tests
        - API Tests (reference: VIVO APIs)
        - Unload/Load Tests
    - Upgrade Tests
    - Vagrant Tests
    - Performance Tests

Testers may either put their results directly in this wiki page, or in the testing Google spreadsheet.

Testing Blocker Tickets

None

Testing Plan

Prepare installation (build from source)

```
    git clone https://github.com/vivo-project/Vitro.git Vitro
git clone https://github.com/vivo-project/VIVO.git VIVO


cd Vitro
git checkout rel-1.10.0-RC-1

cd ../VIVO
git checkout rel-1.10.0-RC-1


cp ./installer/example-settings.xml local-settings.xml
# Update local-settings.xml with appropriate `vivo-dir` and `tomcat-dir`
```

Sanity Builds

Command	Platform	Tested by	Success?	Notes
mvn clean install -s local-settings.xml	Linux	Andrew Woods Ralph O'Flinn Kitio Fofack	✓	Built from source
mvn clean install -s local-settings.xml	Mac Mac	Mike Conlon Benjamin Gross	✓ blocked URL	Built from source
mvn clean install -s local-settings.xml	Mac Linux Mac	Mike Conlon Kitio Fofack Benjamin Gross	✓ blocked URL	Built from distribution
mvn clean install -s local-settings.xml	Windows	Ralph O'Flinn	blocked URL	Built from source

New Installation Tests

1. Prepare installation, see above
2. Empty MySQL database

```
      mysql -u root -p
mysql> drop database vitrodb
mysql> CREATE DATABASE vitrodb CHARACTER SET utf8;
mysql> GRANT ALL ON vitrodb.* TO 'vitrodbUsername'@'localhost' IDENTIFIED BY 'vitrodbPassword';
```

3. Remove application data

```
      rm -rf ${VIVO_HOME}/tdbModels/*
rm -rf ${VIVO_HOME}/solr/data/*
```

4. Start Tomcat

```
      sudo service tomcat8 restart
```

UI Tests

	Test	Platform	Tested by	Success?	Notes
1	Smoke tests do not produce error (warning about email server is OK)	Mac Linux Windows Win/Lnx	Mike Conlon Andrew Woods Huda Khan Ralph O'Flinn	✓ ✓ blocked URL blocked URL	
2	Home page displays correctly	Mac Linux Win/Lnx	Mike Conlon Andrew Woods Ralph O'Flinn	✓ ✓ blocked URL	Wait for indexing, refresh.
3	Log in as admin	Mac Linux Win/Lnx	Mike Conlon Andrew Woods Ralph O'Flinn	✓ ✓ blocked URL	
4	Site Admin page displays correctly	Mac Linux Win/Lnx	Mike Conlon Andrew Woods Ralph O'Flinn	✓ ✓ blocked URL	Shows startup status warning re email
5	Each function on site admin display correctly	Mac Win/Lnx	Mike Conlon Andrew Woods Ralph O'Flinn	✓ ✓ blocked URL	All 24 links (including Data Input Pull down) display normally. Ontology list All looks good
6	Site Admin - Add Individual of this class: Faculty Member (People) Project (Activities) Course (Courses) Academic Article (Research) Presentation (Events) Academic Department (Organizations) Populated Place (Locations)	Mac Linux Win/Lnx	Mike Conlon Kitio Fofack Ralph O'Flinn	✓ blocked URL blocked URL	Works as designed
7	Check required fields in creating classes	Mac	Mike Conlon	✓	Not sure what this test is? VIVO only requires labels as individuals are created.

8	Check menu entries (Home, People, Organizations, Events, Capability Map)	Mac Linux Win/Lnx	Mike Conlon Kitio Fofack Ralph O'Flinn	✓ ✓ blocked URL	Works as designed.
9	Check Person display (logged out, logged in)	Mac Linux Win/Lnx	Mike Conlon Kitio Fofack Ralph O'Flinn	✓ ✓ blocked URL	Works as designed.
10	Add values to all Person attributes	Mac	Mike Conlon	✓	All is a heavy lift. 64 attributes accessible from the person page, some of which lead to entities (publications, positions, etc)) each with their own attributes. Recommended: Add photo, overview, URL, research areas, position. Each exercises different functionality.
11	Add research areas using vocabulary services	Mac	Mike Conlon Benjamin Gross	Unable to complete	UMLS service requires registration key. See Release Notes. Unclear where this key would go. Other services respond as expected. r UMLS Link configuration. Unable to locate Jira server for this macro. It may be due to Application
12	Check tabs on Person display (overview, publications, contact, etc.)	Mac Linux Win/Lnx	Mike Conlon Kitio Fofack Ralph O'Flinn	✓ ✓ blocked URL	
13	Add new publication to person (check required fields)	Mac Linux Win/Lnx	Mike Conlon Kitio Fofack Ralph O'Flinn	✓ ✓ blocked URL	Works as designed.
14	Check publication sparkline	Mac	Mike Conlon Benjamin Gross	blocked URL blocked URL	Works as designed. ~~^^ confirmed. This may have been broken for awhile. The link doesn't work on Scholars@Duke either.~~ Was I going crazy? It works.
15	Check manage publications (hide / show publications)	Mac Linux	Mike Conlon Kitio Fofack	✓ ✓	Works as designed. (I don't think I'd ever tried this. Works well.)
16	Check Publication view	Mac Linux Win/Lnx	Mike Conlon Kitio Fofack Ralph O'Flinn	✓ ✓ blocked URL	Works as designed.
17	Check AltMetric badge (e.g. doi: 10.1038/nrmicro2331)	Mac Win/Lnx	Mike Conlon Ralph O'Flinn	✓ blocked URL	Poor UI experience. I copied in the link, which copied in the HTML tagging, which led to showing the HTML tagging in the display. The edit form is open ended HTML, should be plain text. Should indicate what form of DOI is expected , or should accept with or without http:// without without "doi".
18	Add author(s) to publication	Mac Linux Win/Lnx	Mike Conlon Kitio Fofack Ralph O'Flinn	✓ ✓ blocked URL	Works as designed.
19	Check Person has co-author network	Mac Linux Win/Lnx	Mike Conlon Kitio Fofack Ralph O'Flinn	✓ ✓ blocked URL	Works as designed.
20	Check co-author network display	Mac Linux Win/Lnx	Mike Conlon Kitio Fofack Ralph O'Flinn	✓ ✓ blocked URL	Works as designed
21	Add grants to Person	Mac Linux Win/Lnx	Mike Conlon Kitio Fofack Ralph O'Flinn	✓ ✓ ✓	Works as designed
22	Add co-investigators to grants	Mac Linux Win/Lnx	Mike Conlon Kitio Fofack Ralph O'Flinn	✓ ✓ blocked URL	Works as designed
23	Check Person has co-investigator network	Mac Linux Win/Lnx	Mike Conlon Kitio Fofack Ralph O'Flinn	✓ ✓ blocked URL	Works as designed

24	Check co-investigator network display	Mac Linux Win/Lnx	Mike Conlon Kitio Fofack Ralph O'Flinn	✓ ✓ blocked URL	Works as designed
25	Load Sample Data	Mac Linux	Mike Conlon Kitio Fofack	✓ ✓	sample-data.n3 loaded from https://github.com/vivo-project/sample-data/blob/master/sample-data.n3
26	Check Capability Map	Mac Linux	Mike Conlon Kitio Fofack	✓ ✓	Works as designed. Need more sample data with more concepts for more extensive tests.
27	Check Map of Science	Mac Win/Lnx	Mike Conlon Benjamin Gross Ralph O'Flinn	Unable to complete	Testing requires google maps key configured in runtime.properties. Works. Info popups work but top two are buggy, want to disappear quickly and link in popup is impossible to click. Also seeing different numbers in CSV export for Disciplines vs what is shown in table on page. Subdiscipline csv export numbers look okay.
28	Check Temporal Graph	Mac Linux	Mike Conlon Kitio Fofack Ralph O'Flinn	✓ ✓ blocked URL	Works as designed
29	Search for "Derrida"	Mac Linux	Mike Conlon Kitio Fofack Ralph O'Flinn	✓ ✓ blocked URL	Works as designed
30	Check index page	Mac Linux Win/Lnx	Mike Conlon Kitio Fofack Ralph O'Flinn	✓ ✓ blocked URL	Works as designed
31	Create self editor login associated with profile	Mac	Mike Conlon Ralph O'Flinn	✓ blocked URL	Works as designed. Updated documentation to describe how this is done. See Creating and Managing User Accounts#AssociatingUserAccountswithProfilePages
32	Log in as self editor. Verify can edit self, cannot edit others.	Mac	Mike Conlon Ralph O'Flinn	✓blocked URL	Works as designed.
33	Add and confirm an ORCiD	Mac	Mike Conlon	Unable to complete	ORCiD API configuration requires clientId and clientPassword and public VIVO. See Activating the ORCID integration
34	Create editor and assign proxy editing	Mac Windows	Mike Conlon Huda Khan Ralph O'Flinn	blocked URL blocked URL blocked URL	Works as designed. Created user account with editor role and assigned proxy editing. Also switched to self-editor role.
35	Log in as proxy editor. Verify can edit proxied profile, cannot edit others.	Mac Windows	Mike Conlon Huda Khan Ralph O'Flinn	✓ blocked URL blocked URL	works as designed. When logged in as self-editor designated as a proxy editor, I can only edit the proxied profile and not a different profile. When logged in as editor (i.e. the editor role which is different from self-editor), I can edit the proxied profile but also other profiles. Works as it should.
36	Check TPF endpoint	Mac Windows	Mike Conlon Huda Khan Ralph O'Flinn	blocked URL blocked URL blocked URL	Works as designed. 45,279 triples with VIVO data, sample data, and some manually entered test data. Design needs work. /tpf/core displayed triples and enabled triple pattern matching by subject,predicate, or object. (43,173 triples in total)
37	Run a SPARQL query	Mac Windows	Mike Conlon Huda Khan Ralph O'Flinn	✗ Test failed blocked URL blocked URL	Chrome: Screen appeared to be showing all prefixes, then flashed and was replaced by screen showing just five prefixes. Query ran fine, but prefixes should appear in the default SPARQL query window. See SPARQL Prefixes missing 2018-06-03 14.50.25.png May be user error – perhaps caching this screen? I removed all cache and retried, but behavior remained. Note from Benjamin Gross: Re: Above... I'm not sure what the mechanism for caching is, but I think that's what is happening. I got all the normal prefixes the first time as expected. Safari: works as designed On Windows, tested in Firefox with same query as in screenshot above: "PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#> SELECT ?s ?o WHERE {?s rdfs:subClassOf ?o .}" and items were returned. In Chrome, ran default query that shows up when you first to the Sparql query page (if you haven't been there in that browser) and that also ran successfully.

API Tests (reference: VIVO APIs)

	Test	Platform	Tested by	Success?	Notes

1	Linked Open Data	Linux	Andrew Woods
			
			Ralph O'Flinn
				blocked URL	# From Site Admin: Create a new `Faculty Member` (Add individual)
					** Record the new URI: http://localhost:8080/vivo/individual/n1323
					# Verify `individual` endpoint:
					
					`curl http://localhost:8080/vivo/individual/n1323/n1323.ttl`
					`curl http://localhost:8080/vivo/individual/n1323/n1323.n3`
					`curl http://localhost:8080/vivo/individual/n1323 -L -H "Accept: text/turtle"`
					
					for windows using cURL for Windows 7.46

	ListRDF	Linux	Andrew Woods Ralph O'Flinn	blocked URL	curl http://localhost:8080/vivo/listrdf -d 'vclass=http://vivoweb.org/ontology/core#Continent' for windows using cURL for Windows 7.46 (doesn't want the single quote) curl http://localhost:8080/vivo/listrdf -d vclass=http://vivoweb.org/ontology/core#Continent
3	Triple Pattern Fragments http://localhost:8080/vivo/tpf/core http://localhost:8080/vivo/tpf curl http://localhost:8080/vivo/tpf/core	Linux	Andrew Woods		# Verify browsing: http://localhost:8080/vivo/tpf/core http://localhost:8080/vivo/tpf # Verify direct access: curl http://localhost:8080/vivo/tpf/core?subject=http://localhost:8080/vivo/individual/n1323

4	SPARQL Query API	Linux	Andrew Woods		Enabled service
					
					Executed several queries (both root and site-admin):
					
					`curl -i localhost:8080/vivo/api/sparqlQuery -d email=us -d password=pw -d query='SELECT ?s ?p ?o WHERE {<http://localhost:8080/vivo/individual/n1323> ?p ?o} LIMIT 20'`
					
					`curl -i localhost:8080/vivo/api/sparqlQuery -d email=us -d password=pw -d query='DESCRIBE <http://dbpedia.org/resource/Connecticut>' -H 'Accept: text/n3'`

5	SPARQL Update API	Linux	Andrew Woods		Success with examples on: SPARQL Update API
6	Search Indexing API	Linux	Andrew Woods		Service returns success status, with "Received 1 URIs."
7	Data Distribution API	Linux	Andrew Woods		dating the pom.xml (Unable to locate Jira server for this macro. It may be due to Application Link configuration.) Followed directions here: https://cul-it.github.io/vivo-data-distribution-api/install_vivo_1_10.html
8	Direct2Experts API	Linux Mac	Andrew Woods Mike Conlon	blocked URL	No documentation Direct2Experts API Done writing. Review here:

Unload/Load Tests

	Test	Platform	Tested by	Success?	Notes

1	Load data using the Harvester	Linux	Andrew Woods	Build failed	Builds failed
					`$ mvn clean install`
					`$ Tests run: 97, Failures: 0, Errors: 25, Skipped: 0`
					`[INFO] ------------------------------------------------------------------------`
					`[INFO] BUILD FAILURE`
					`[INFO] ------------------------------------------------------------------------`
					`[INFO] Total time: 03:09 min`
					`[INFO] Finished at: 2018-06-29T14:24:13-04:00`
					`[INFO] Final Memory: 49M/444M`
					
					`$ mvn clean install -DskipTests`
					`$ Caused by: java.io.FileNotFoundException: Data source not found : /home/awoods/programming/java/apps/vivo/VIVO-Harvester/build/dependency`
					`at org.vafer.jdeb.maven.Data.produce(Data.java:98)`
					`at org.vafer.jdeb.Processor.buildData(Processor.java:515)`
					`at org.vafer.jdeb.Processor.createDeb(Processor.java:128)`
					`... 24 more`
					`[INFO] ------------------------------------------------------------------------`
					`[INFO] BUILD FAILURE`
					`[INFO] ------------------------------------------------------------------------`
					`[INFO] Total time: 12.195 s`
					`[INFO] Finished at: 2018-06-29T14:25:54-04:00`
					`[INFO] Final Memory: 51M/471M`

2	Unload using jena2tools -e (using jena3tools -e Andrew Woods)	Windows | Linux	Ralph O'Flinn Andrew Woods	blocked URL	
3	Load using jena3tools -i	Windows | Linux	Ralph O'Flinn Andrew Woods	blocked URL	
4	Load sample data to a named graph	Windows | Linux	Ralph O'Flinn	blocked URL	
5	Remove sample data named graph	Windows | Linux	Ralph O'Flinn	blocked URL	

Upgrade Tests

1. Install previous release
2. Prepare installation per instructions above for previous release
3. Start Tomcat - check that smoke test passes
4. Stop Tomcat
5. Export data with jena2tools

```
java -jar jena2tools.jar -e -d /usr/local/vivo/home
```

6. Empty MySQL

```
      mysql -u root -p
mysql> drop database vitrodb;
mysql> CREATE DATABASE vitrodb CHARACTER SET utf8;
mysql> GRANT ALL ON vitrodb.* TO 'vitrodbUsername'@'localhost' IDENTIFIED BY 'vitrodbPassword';
```

7. Remove application data

```
      rm -rf ${VIVO_DIR}/tdbModels/*
rm -rf ${VIVO_DIR}/solr/data/*
```

8. Import data with jena3tools

```
      java -jar jena3tools.jar -i -d /usr/local/vivo/home
```

9. Start Tomcat
10. Verify application per `UI Tests` above

Test	Platform	Tested by	Success?	Notes
All UI Tests	Windows | Linux	Ralph O'Flinn	blocked URL	
All API Tests	Windows | Linux	Ralph O'Flinn	In Progress	
All Unload/Load tests	Windows | Linux	Ralph O'Flinn	blocked URL	(except Harvester)
All performance tests				

Vagrant Tests

1. Clone VIVO Vagrant

```
      git clone https://github.com/vivo-community/vivo-vagrant.git
```

2. Checkout release candidate

```
      cd vivo-vagrant
git checkout rel-1.10.0-RC-1
```

3. Load local or sample data
4. Verify application per `UI Tests` above

Test	Platform	Tested by	Success?	Notes
All UI Tests	Linux | Mac | Windows			
All API Tests				
All Unload/Load Tests		blocked URL	blocked URL	
All performance tests				

Performance Tests

Performance tests should compare run times for a 1.9.3 vs a 1.10 on same hardware, same data.
Timing collection may be facilitated by enabling The Developer Panel.

	Test	Platform	Tested by	Success?	Notes
1	Compare firsttime starttime time	Linux | Mac | Windows			
2	Compare performance data load time				

3	Compare profile display time				
4	Compare SPARQL query time				
5	Compare Search Index rebuild time				
6	Compare Inferencer rebuild time				
7	Compare jenatools export time				
8	Compare jenatooools import time				
9	Compare Data Distribution API response time				