1. Configure cell properties

In i2b2 1.7.12, the cell properties have been moved to the database, in a table called hive_cell_params installed as part of the Hivedata. These must be manually modified in the database by a SQL editor. Most installations require only a few changes. The most commonly modified parameters are documented below and a list of all configurable parameters is at the end of this page.

- Agg Service Account Password (important!)
- Cell URLs
- File Repository Cell Properties
  - 13.4.3.3 Patient in Project Property
  - 13.4.3.4 Other EMPI Service Properties
- Ontology Cell Properties (uncommon)
- Appendix: All parameters
  - Release 1.8.2 DataExpert parameters

Agg Service Account Password (important!)

When setting up the i2b2 to work in your environment we **highly recommend you change the default password for the AGG_SERVICE_ACCOUNT** and restart WildFly.

The AGG_SERVICE_ACCOUNT is an i2b2 user account used to run aggregate-counting queries in i2b2. These parameters should reflect the account name and password. We recommend changing the password.

datatype_cd	param_name_cd	value
T	edu.harvard.i2b2.crc.pm.serviceaccount.password	demouser

T	edu.harvard.i2b2.crc.pm.serviceaccount.user	AGG_SERVICE_ACCOUNT

It is also possible to change this password manually:

1. Login using the AGG_SERVICE_ACCOUNT account on the webclient and in the top right select change password
2. Update the hive_cell_param on using the following, where {password} is the password from step 1

```
update hive_cell_params set value='{password}' where param_name_cd='edu.harvard.i2b2.crc.pm
.serviceaccount.password';
```

3. Restart i2b2

Cell URLs

Multiple servers

If your cells are installed on different servers (e.g., Project Management is on a different server than the Ontology cell), you will need to make this change because the hostnames cannot be autodetected.

https

If your Wildfly is set up to use https, you will also need to specify the full URL as shown below.

Each cell must communicate with other cells. To facilitate this, the cell URL properties allow each cell to know the URL of the other cells. Generally these do not need to be configured, because the hostname and port are automatically determined by the server and the rest of the URL is required to remain as written. If you do want to manually specify the hostname and port, change the data type to a T and append this to the text value. (Data type U is automatically resolved into a URL.)

For example,

datatype_cd	param_name_cd	value
U	edu.harvard.i2b2.crc.delegate.ontology.url	/i2b2/services/OntologyService

could become

datatype_cd	param_name_cd	value
T	edu.harvard.i2b2.crc.delegate.ontology.url	http://localhost:9090/i2b2/services/OntologyService

Important

When you edit a **.url** property with the location of a cell it is ***extremely important*** that you only add/edit the first portion - i.e. **Protocol** (e.g., *https://*) **hostname** (e.g., *localhost*) and the **port** (e.g., *9090*). The remainder of the URL is required as it is written and should not be changed.

File Repository Cell Properties

13.4.3.3 Patient in Project Property

When a *get* request is sent to the IM cell it has the capability to verify whether or not a patient is part of the project requesting the patient data. By default the property is set to ***true***, if you do not wish to check the project then you can set it to ***false***.

13.4.3.4 Other EMPI Service Properties

The Identity Management (IM) Cell can be configured to work with a third party EMPI service such as OpenEMPI. To do this you will need to create the service to the other system and then update the im.properties file with the appropriate information.

Ontology Cell Properties (uncommon)

This uncommon change allows backward compatibility with i2b2 release 1.3.

datatype_cd	param_name_cd	value
T	ontology.terminal.delimiter	true

Value	Description
true	A backslash will be added automatically to the metadata **fullpath name** if it does not already exist.
false	This setting will not add a backslash to the fullpath name and will provide true backward compatibility with release 1.3

Appendix: All parameters

Below is a table of all configurable cell parameters and their default values. Data Type is T for text values, and U for URL values. URL values will automatically have *protocol://hostname:port/* appended to the value, which is detected by the server. (For example, *http://localhost:9090/*)

Data Type	Parameter	Value
T	queryprocessor.jndi.queryinfolocal	ejb.querytool.QueryInfoLocal
T	queryprocessor.jndi.querymanagerlocal	ejb.querytool.QueryManagerLocal
T	queryprocessor.jndi.querymanagerremote	ejb.querytool.QueryManager
T	applicationName	Ontology Cell
T	applicationName	CRC Cell
T	applicationVersion	1.7
T	applicationVersion	1.7
T	edu.harvard.i2b2.crc.analysis.queue.large.jobcheck.timemills	60000
T	edu.harvard.i2b2.crc.analysis.queue.large.maxjobcount	1
T	edu.harvard.i2b2.crc.analysis.queue.large.timeoutmills	43200000
T	edu.harvard.i2b2.crc.analysis.queue.medium.jobcheck.timemills	60000
T	edu.harvard.i2b2.crc.analysis.queue.medium.maxjobcount	4
T	edu.harvard.i2b2.crc.analysis.queue.medium.timeoutmills	3000

T	edu.harvard.i2b2.crc.delegate.ontology.operation.getchildren	/getChildren
T	edu.harvard.i2b2.crc.delegate.ontology.operation.getmodifierinfo	/getModifierInfo
T	edu.harvard.i2b2.crc.delegate.ontology.operation.getterminfo	/getTermInfo
U	edu.harvard.i2b2.crc.delegate.ontology.url	/services/OntologyService
T	edu.harvard.i2b2.crc.i2b2SocketServer	7070
T	edu.harvard.i2b2.crc.jms.large.timeoutsec	43200
T	edu.harvard.i2b2.crc.jms.medium.timeoutsec	14400
T	edu.harvard.i2b2.crc.jms.small.timeoutsec	180
T	edu.harvard.i2b2.crc.lockout.setfinderquery.count	7
T	edu.harvard.i2b2.crc.lockout.setfinderquery.day	30
T	edu.harvard.i2b2.crc.lockout.setfinderquery.zero.count	-1
T	edu.harvard.i2b2.crc.pdo.paging.inputlist.minpercent	20
T	edu.harvard.i2b2.crc.pdo.paging.inputlist.minsize	1
T	edu.harvard.i2b2.crc.pdo.paging.iteration	100
T	edu.harvard.i2b2.crc.pdo.paging.method	SUBDIVIDE_INPUT_METHOD
T	edu.harvard.i2b2.crc.pdo.paging.observation.size	7500
T	edu.harvard.i2b2.crc.pdo.request.timeoutmills	600000
T	edu.harvard.i2b2.crc.pm.serviceaccount.password	demouser
T	edu.harvard.i2b2.crc.pm.serviceaccount.user	AGG_SERVICE_ACCOUNT
T	edu.harvard.i2b2.crc.setfinder.querygenerator.version	1.7
T	edu.harvard.i2b2.crc.setfinderquery.obfuscation.breakdowncount.sigma	1.6
T	edu.harvard.i2b2.crc.setfinderquery.obfuscation.count.sigma	1.323
T	edu.harvard.i2b2.crc.setfinderquery.obfuscation.minimum.value	3

T	edu.harvard.i2b2.crc.setfinderquery.skiptemptable.maxconcept	40
U	edu.harvard.i2b2.ontology.ws.crc.url	/services/QueryToolService
T	edu.harvard.i2b2.ontology.ws.fr.attachmentname	cid
T	edu.harvard.i2b2.ontology.ws.fr.filethreshold	4000
T	edu.harvard.i2b2.ontology.ws.fr.operation	urn:recvfileRequest
T	edu.harvard.i2b2.ontology.ws.fr.tempspace	/tmp
T	edu.harvard.i2b2.ontology.ws.fr.timeout	10000
U	edu.harvard.i2b2.ontology.ws.fr.url	/services/FRService/
T	I2B2_MESSAGE_ERROR_AUTHENTICATION_FAILURE	Authentication failure.
T	I2B2_MESSAGE_ERROR_INVALID_MESSAGE	Invalid message body
T	I2B2_MESSAGE_STATUS_COMPLETED	COMPLETED
T	I2B2_MESSAGE_STATUS_ERROR	ERROR
T	I2B2_MESSAGE_STATUS_FINISHED	FINISHED
T	I2B2_MESSAGE_STATUS_INCOMPLE	INCOMPLETE
T	I2B2_MESSAGE_STATUS_PROCESSING	PROCESSING
T	I2B2_MESSAGE_STATUS_QUEUED	QUEUED
T	ontology.terminal.delimiter	true
U	ontology.ws.pm.url	/services/PMService/getServices
T	queryprocessor.jndi.pdoquerylocal	ejb.querytool.PdoQueryLocal
T	queryprocessor.jndi.queryexecutormdblocal	ejb.querytool.QueryExecutorMDBLoc
T	queryprocessor.jndi.queryexecutormdbremote	ejb.querytool.QueryExecutorMDB
T	queryprocessor.jndi.querymasterlocal	ejb.querytool.QueryMasterLocal
T	queryprocessor.jndi.queryresultlocal	ejb.querytool.QueryResultLocal

T	queryprocessor.jndi.queryrunlocal	ejb.querytool.QueryRunLocal
T	queryprocessor.jndi.queue.connectionfactory	ConnectionFactory
T	queryprocessor.jndi.queue.executor_queue	queue/jms.querytool.QueryExecutor
T	queryprocessor.jndi.queue.response_queue	queue/jms.querytool.QueryResponse
T	queryprocessor.multifacttable	false
U	queryprocessor.ws.ontology.url	/services/OntologyService/getTermIn
U	queryprocessor.ws.pm.url	/services/PMService/getServices
U	workplace.ws.pm.url	/services/PMService/getServices
U	im.ws.pm.url	/services/PMService/getServices
T	im.checkPatientInProject	true
T	im.empi.service	none

Release 1.8.2 DataExpert parameters

Cell ID	Parameter Name	Example Value
CRC	edu.harvard.i2b2.crc.smtp.host	smtp.partners.org
CRC	edu.harvard.i2b2.crc.smtp.port	25
CRC	edu.harvard.i2b2.crc.smtp.ssl.enabled	FALSE
CRC	edu.harvard.i2b2.crc.smtp.auth	FALSE
CRC	edu.harvard.i2b2.crc.smtp.username	none

CRC	edu.harvard.i2b2.crc.smtp.password	none
CRC	edu.harvard.i2b2.crc.smtp.enabled	FALSE
CRC	edu.harvard.i2b2.crc.exportcsv.defaultescapecharacter	"
CRC	edu.harvard.i2b2.crc.exportcsv.maxfetchrows	-1
CRC	edu.harvard.i2b2.crc.exportcsv.defaultlineend	\n
CRC	edu.harvard.i2b2.crc.exportcsv.defaultseperator	\t
CRC	edu.harvard.i2b2.crc.exportcsv.resultfetchsize	50000
CRC	edu.harvard.i2b2.crc.exportcsv.filename	{{{PROJECT_ID}}}/{{{DATE_yyyyMMdd}}}_{{{FULL_

CRC	edu.harvard.i2b2.crc.exportcsv.defaultquotechar	"
CRC	edu.harvard.i2b2.crc.exportcsv.workfolder	/tmp/i2b2
CRC	edu.harvard.i2b2.crc.exportcsv.zipencryptmethod	none

Deprecated parameters in 1.7.12

Note for those upgrading that many parameters were deprecated in 1.7.12 and are not part of the new table: CRC loader properties (now sharing CRC properties), datasource lookups (now using hive db lookup table, configured by admin tool), application directory (no longer needed), ws.pm.bypass, ontology.ws.pm.webServiceMethod, ontology.pm.serviceaccount.user (was never used)