

# 1.7.07 Release Notes

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i2b2 1.7.07 Release Notes

## i2b2 Release 1.7.07

**Release Date:** January 15, 2016

## Installation Notes

- This release note applies to you if you are **upgrading to 1.7.07** from an earlier version of i2b2.
- If you are installing 1.7.07 from a computer running the i2b2 Workbench, ensure that the workbench and all eclipse applications are closed prior to installing this release.
- If you are installing a new instance of i2b2 we recommend you refer to the installation documentation found on the i2b2 community wiki. This documentation will guide you through the entire installation process.

## SHRINE Approval



*SHRINE Release 1.20.1* has been tested with *i2b2 1.7.07 Release* and has been **approved** by the

SHRINE Team

## Upgrade Notes

i2b2 Release 1.7.07 contains changes to the following software components:

- i2b2 Community Plugins
- i2b2 Data
- i2b2 Server
- i2b2 Web Client

## Third Party Software Changes

No changes to third party software are included in release 1.7.07

## Change Summary - i2b2 Core Software - Release 1.7.07

### Improvements

- [CORE-118] - Increase number of queries that can be run in the "lifetime" of the database
- [CORE-187] - Split the observation\_fact\_demo\_insert\_data script into smaller scripts
- [CORE-194] - Split the icd10\_icd9\_diagnoses\_insert\_data script into smaller scripts
- [CORE-201] - Update i2b2 demo data scripts to support Microsoft SQL Server 2012

### Bug Fixes

- [CORE-182] - Wrong datatype defined for some date fields in PostgreSQL create script(s)
- [CORE-199] - PM Cell is not sending admin role unless a project is associated to the user
- [CORE-202] - Some concepts in concept\_dimension have synonym name
- [CORE-203] - Restore requirement to look at M\_APPLIED\_PATH when retrieving modifier info from the Ontology Cell
- [CORE-204] - Duplicate data in GitHub repo i2b2-data

## Change Summary - i2b2 Web Client Software - Release 1.7.07

### Improvements

- [WEBCLIENT-143] - Add .HideBreak() & .getXNodeValNoKids() methods to webclient/js-i2b2/hive/hive\_helper.js
- [WEBCLIENT-144] - Concepts with a line break in their name are not displaying correctly in the Timeline
- [WEBCLIENT-145] - Add reference for jquery-1.11.1.min.js in /webclient/default.htm
- [WEBCLIENT-146] - New drop down that will display the list of plugins
- [WEBCLIENT-155] - Add 'Delete Temporal Relationship' option to the define order of events screen
- [WEBCLIENT-163] - Excluding a panel will now display 'NOT' in front of each item
- [WEBCLIENT-168] - Add the ability to expand the Query Status view
- [WEBCLIENT-172] - Add 'Close' button to new Plugins Menu
- [WEBCLIENT-173] - Right-Click "Display" menu to load Previous Query

### New Features

- [WEBCLIENT-162] - Item Level Date Constraints
- [WEBCLIENT-164] - New i2b2 Web Client Plugin Installer
- [WEBCLIENT-166] - Printable Query Report Feature

- [WEBCLIENT-167] - Plugin installer configurable parameter in i2b2\_config\_data.js

## Bug Fixes

- [WEBCLIENT-75] - Cannot delete event from temporal query once added in the webclient
- [WEBCLIENT-100] - Bar graph overlaps number of patients when large patient set is displayed
- [WEBCLIENT-102] - Print Query doesn't display name if printing a previous query
- [WEBCLIENT-118] - Announcements do not display correctly in Internet Explorer
- [WEBCLIENT-122] - Clicking on Login button with missing or invalid username/password is not displaying the right error message
- [WEBCLIENT-125] - Wrong icon appears when dragging previous temporal query to Workplace View
- [WEBCLIENT-127] - Breakdowns for obfuscated results are not displaying the obfuscation indicator ( $\pm 3$ ) in Graph Results
- [WEBCLIENT-130] - Change Password link show to accounts logged in via AD
- [WEBCLIENT-132] - Demographics (1 patient set) plugin
- [WEBCLIENT-135] - Some metadata terms with special characters will not run in the query tool
- [WEBCLIENT-136] - Date Constraints lost in webclient when executing a query created in workbench
- [WEBCLIENT-138] - Timeline bugs
- [WEBCLIENT-139] - Find - Search by Names for non-existent term does not return a message
- [WEBCLIENT-142] - "Missing resource" error is being logged because prevQuery.jpg file is missing from /images/
- [WEBCLIENT-147] - previous query run results tab displaying obfuscated indicator as '0 $\pm$ 3' for counts <3
- [WEBCLIENT-149] - Query rerun is failing when run as query-in-query
- [WEBCLIENT-150] - Find - After Searching, the disappearing "Searching..." text logic is incorrect
- [WEBCLIENT-151] - New events in temporal query not populating existing temporal relationships
- [WEBCLIENT-152] - Creating multiple New Events without expanding Define Order of Events dropdown is broken
- [WEBCLIENT-153] - Previous Queries with special characters do not run in Query Tool
- [WEBCLIENT-158] - Minor typos in the webclient
- [WEBCLIENT-176] - Blank Page opens in new tab when opening the i2b2 Plugin Gallery

## Change Summary - i2b2 Community Plugins - Release 1.7.07

### Improvements

- [PLUGINS-12] - Export XLS: Add field to define delimiter when exporting data to .csv file

### New Features

- [PLUGINS-15] - Set up production repositories for all plugins

### Bug Fixes

- [PLUGINS-6] - Export XLS: Data does not appear in exported files
- [PLUGINS-7] - CARE-Concept: Data does not appear in the exported files
- [PLUGINS-8] - CARE-Observation: Data does not appear in the exported files
- [PLUGINS-10] - CARE-Concept plugin doesn't display marital statuses
- [PLUGINS-11] - CARE-Observation: Marital Statuses are not displaying
- [PLUGINS-16] - Fix issue with double quotes in the manifests for several plugins

## i2b2 Release 1.7.06

**Release Date:** August 12, 2015

### Installation Notes

- This release note applies to you if you are **upgrading to 1.7.06** from an earlier version of i2b2.
- If you are installing 1.7.06 from a computer running the i2b2 Workbench, ensure that the workbench and all eclipse applications are closed prior to installing this release.
- If you are installing a new instance of i2b2 we recommend you refer to the installation documentation found on the i2b2 community wiki. This documentation will guide you through the entire installation process.

### Upgrade Notes

i2b2 Release 1.7.06 contains changes to the following software components:

- i2b2 Server
- i2b2 Web Client
- i2b2 Workbench

### Third Party Software Changes

No changes to third party software are included in release 1.7.06

## Change Summary - i2b2 Core Software - Release 1.7.06

### Bug Fixes

- [CORE-149] - JDBC calls to interrupted threads throw sqlexceptions - Queries do not leave medium queue

- [\[CORE-165\]](#) - Timeline filter not working if database is SQL Server
- [\[CORE-180\]](#) - SHRINE queries will not run once i2b2 is updated to 1.7.05

## Documentation Updates

- [\[CORE-179\]](#) - Difference between documentation and table concept\_dimension

## Change Summary - i2b2 Web Client Software - Release 1.7.06

### Bug Fixes

- [\[WEBCLIENT-110\]](#) - Temporal queries do not print unless a population is defined
- [\[WEBCLIENT-115\]](#) - IE Compatibility tag missing end tag and not within the header
- [\[WEBCLIENT-116\]](#) - Graph Results display as "undefined" for obfuscated users
- [\[WEBCLIENT-117\]](#) - Query Tool displays behind Query Status and Graph Results tabs
- [\[WEBCLIENT-120\]](#) - Print query does not work in Internet Explorer for Previous Temporal Queries
- [\[WEBCLIENT-121\]](#) - Previous temporal queries do not run in Internet Explorer
- [\[WEBCLIENT-123\]](#) - Order of events not maintained when running a previous temporal query
- [\[WEBCLIENT-124\]](#) - Clear in Query Tool does not clear correctly for Temporal Queries
- [\[WEBCLIENT-126\]](#) - Only able to view the first two events when previous temporal query is added to the query tool

## i2b2 Release 1.7.05

**Release Date:** May 6, 2015

## Installation Notes

- This release note applies to you if you are **upgrading to 1.7.05** from an earlier version of i2b2.
- If you are installing 1.7.05 from a computer running the i2b2 Workbench, ensure that the workbench and all eclipse applications are closed prior to installing this release.
- If you are installing a new instance of i2b2 we recommend you refer to the installation documentation found on the i2b2 community wiki. This documentation will guide you through the entire installation process.

## Upgrade Notes

i2b2 Release 1.7.05 contains changes to the following software components:

- Database Scripts
- i2b2 Server
- i2b2 Web Client
- i2b2 Workbench

## Third Party Software Changes

No changes to third party software are included in release 1.7.05

## Change Summary - i2b2 Core Software - Release 1.7.05

### Bug Fixes

- [CORE-149] - JDBC calls to interrupted threads throw SQLExceptions
- [CORE-156] - PM may not send the correct cell information when multiple projects and cells defined
- [CORE-158] - JBoss server log contains password information when debug is turned on
- [CORE-159] - Inconsistency in JBoss711Final and Install documentation
- [CORE-166] - Hard coded references to I2B2DEMODATA in CRC install files
- [CORE-167] - Metadata data install error
- [CORE-169] - SHRINE Previous Queries: Path displays in Query Tool instead of item name
- [CORE-174] - concept\_dimension.concept\_cd is nullable in postgresql implementation
- [CORE-177] - Workbench may be using the wrong cell data when multiple projects and cells defined

## Change Summary - i2b2 Web Client Software - Release 1.7.05

### New Features

- [WEBCLIENT-78] - Ability to refresh in PQ and workplace
- [WEBCLIENT-80] - New view: Find Previous Queries
- [WEBCLIENT-89] - New Graph Results view to display patient breakdowns in a graph

### Improvements

- [WEBCLIENT-85] - Display error message to user in Find for previous queries
- [WEBCLIENT-86] - Indicator needed to inform users the system is searching when doing a Find
- [WEBCLIENT-88] - Category names in Find (Previous Queries) can be misleading
- [WEBCLIENT-103] - Add text wrapping capabilities to the i2b2 Web Client

## Bug Fixes

- [WEBCLIENT-73] - Wrong name displays when renaming a previous query in Workplace
- [WEBCLIENT-76] - Update the I.E. Emulation that is defined in the Web Client <meta> tag
- [WEBCLIENT-81] - Not able to select item from pop-up menu in Previous Queries
- [WEBCLIENT-83] - Need message to say no results found
- [WEBCLIENT-84] - Not able to search Previous Queries if "Any Categories" is selected
- [WEBCLIENT-90] - Query Results not cleared when clear query in Query Tool
- [WEBCLIENT-91] - Items are not staying with the pointer when dragged to another i2b2 view (Firefox only)
- [WEBCLIENT-92] - Refresh icon needs to be updated to one with transparent background
- [WEBCLIENT-93] - Update the message that appears to users in Graph Results if using I.E. 7 or 8
- [WEBCLIENT-94] - ONT - Containers Draggable by Default
- [WEBCLIENT-95] - Help is not displaying in the Web Client
- [WEBCLIENT-97] - Selecting temporal constraint selection "Same encounter" is not changing selection at the individual group level
- [WEBCLIENT-99] - Find view is not resizing properly
- [WEBCLIENT-101] - Date picker calendar does not close unless you choose a date
- [WEBCLIENT-105] - Previous Queries appear to be missing value constraints when dropped in Query Tool
- [WEBCLIENT-106] - Observation details are missing when viewed in Timeline
- [WEBCLIENT-107] - Graph Results panel temporarily attached to bottom of Show Query Status panel
- [WEBCLIENT-108] - Value constraint window doesn't open in I.E. 11
- [WEBCLIENT-109] - Web Client may be using the wrong cell data when multiple projects and cells defined
- [WEBCLIENT-112] - Find Terms: Search by Code does not display results returned

## i2b2 Release 1.7.04

**Release Date:** November 13, 2014

## Installation Notes

- This release note applies to you if you are **upgrading to 1.7.04** from an earlier version of i2b2.
- If you are installing 1.7.04 from a computer running the i2b2 Workbench, ensure that the workbench and all eclipse applications are closed prior to installing this release.
- If you are installing a new instance of i2b2 we recommend you refer to the installation documentation found on the i2b2 community wiki. This documentation will guide you through the entire installation process.

## Upgrade Notes

i2b2 Release 1.7.04 contains changes to the following software components:

- Database Scripts
- i2b2 Server
- i2b2 Web Client
- i2b2 Workbench

## Third Party Software Changes

No changes to third party software are included in release 1.7.04

## Change Summary - i2b2 Core Software - Release 1.7.04

### Improvements

- [CORE-134] - Improve appearance of tooltips in Ontology Views
- [CORE-136] - Jump to terms does not display modifiers
- [CORE-142] - Add ability to add metadata.xml to a modifier from within Edit Terms view
- [CORE-144] - Add ability to expand inactive folders to view its children

### Bug Fixes

- [CORE-61] - The crc\_loader (triggered via a web service) does not correctly load data into the patient dimension
- [CORE-65] - Ontology term sorting order is case sensitive (should be case insensitive)
- [CORE-106] - The tooltip boxes don't always close in the Timeline view
- [CORE-107] - Duplicate concept appears multiple times in Timeline view
- [CORE-108] - Times in the tooltips are not always updated
- [CORE-109] - The contrast of the different bars of color in the timeline needs to be higher.
- [CORE-110] - Full concept not displayed when hovering over it in the timeline
- [CORE-112] - Remove hard coded link from the workbench code
- [CORE-113] - Browser spelled incorrectly in error message returned
- [CORE-114] - Date of birth column is displaying the date and time
- [CORE-115] - Can't edit value constraints in timeline view
- [CORE-130] - SQL stored procedure not inserting required data into PROJECT\_ID
- [CORE-131] - FRC Error - Unable to get 'destdir' from File Repository Cell
- [CORE-132] - commons-dbcp.jar and commons-pool.jar are not present in i2b2 WEB-INF/lib directory
- [CORE-139] - DEMO Data: Alkaline Phosphatase (ALP) lab tests are missing from Navigate Terms view
- [CORE-145] - Users with LDS access can view de-identified data (i.e. reports)
- [CORE-148] - Values no longer visible in timeline view
- [CORE-150] - Left and Right arrows in previous queries not working correctly
- [CORE-152] - Wrong approval displays when selecting an approval to edit in the Admin Tool
- [CORE-153] - Only the first item in each section of a project request appears in the Admin Tool



- [CORE-155] - Base code doesn't display in the Edit Term Wizard

## Change Summary - i2b2 Web Client Software - Release 1.7.04

### Improvements

- [WEBCLIENT-67] - Add ability to expand inactive items to view its dependents / children

### Bug Fixes

- [WEBCLIENT-13] - Data & admin roles specified in Project Request plug-in are listed 'undefined' in admin detail view
- [WEBCLIENT-50] - New Events for temporal queries are mislabeled after using 'Clear'
- [WEBCLIENT-64] - Can't drop previous temporal query into query tool if span of time defined in query
- [WEBCLIENT-65] - Date constraint not available for Groups over Group3
- [WEBCLIENT-72] - Synonyms issue in 1.7.04 release

## i2b2 Release 1.7.03a

**Release Date:** August 28, 2014

### Installation Notes

- This release note applies to you if you are **upgrading to 1.7.03a** from an earlier version of i2b2.
- If you are installing 1.7.03a from a computer running the i2b2 Workbench, ensure that the workbench and all eclipse applications are closed prior to installing this release.
- If you are installing a new instance of i2b2 we recommend you refer to the installation documentation found on the i2b2 community wiki. This documentation will guide you through the entire installation process.

### Upgrade Notes

i2b2 Release 1.7.03a contains changes to the following software components:

- i2b2 Web Client

## Third Party Software Changes

No changes to third party software are included in release 1.7.03a

## Change Summary - i2b2 Web Client Software - Release 1.7.03a

### Bug Fixes

- [WEBCLIENT-68] - Panel timing on anchoring observations can be changed to treat independently or same encounter
- [WEBCLIENT-69] - Print Query is only including the information for the first group / panel
- [WEBCLIENT-70] - The concept associated with a modifier is not printing when you print the query

## i2b2 Release 1.7.03

**Release Date:** To Be Determined

### Installation Notes

- This release note applies to you if you are **upgrading to 1.7.03** from an earlier version of i2b2.
- If you are installing 1.7.03 from a computer running the i2b2 Workbench, ensure that the workbench and all eclipse applications are closed prior to installing this release.
- If you are installing a new instance of i2b2 we recommend you refer to the installation documentation found on the i2b2 community wiki. This documentation will guide you through the entire installation process.

### Upgrade Notes

i2b2 Release 1.7.03 contains changes to the following software components:

- i2b2 Server
- i2b2 Web Client

## Third Party Software Changes

No changes to third party software are included in release 1.7.03

## Change Summary - i2b2 Core Software - Version 1.7.03

### Bug Fixes

- [\[CORE-143\]](#) - Do not require M\_APPLIED\_PATH when retrieving modifier information from the Ontology Cell

### Improvements

- [\[CORE-135\]](#) - Edit tool to file C\_PATH and C\_SYMBOL when adding new item
- [\[CORE-141\]](#) - Remove carriage returns / line feeds from metadaxml when filing a term in Edit Terms view

## Change Summary - i2b2 Web Client Software - Release 1.7.03

### Bug Fixes

- [\[WEBCLIENT-63\]](#) - Temporal Queries: Wrong description is displaying in the list of constraints for "On or After"
- [\[WEBCLIENT-66\]](#) - Wrong operator sent for some temporal relationships

## Improvement / New Feature Details

### Edit tool to file C\_PATH and C\_SYMBOL when adding new item

JIRA ISSUES: [\[CORE-135\]](#)

In the i2b2 metadata table there are two columns (C\_PATH and C\_SYMBOL) that are used exclusively by the Ontology Mapping tool. Prior to release 1.7.03 these columns were not populated when you added a new term via the Edit Terms view. This situation has been rectified in that these columns will now be populated with the appropriate data when creating a new container, folder, term, or modifier from within the Edit Terms view.

### Edit Tool view: Line feeds removed from Metadaxml

JIRA ISSUES: [\[CORE-141\]](#)

In the Edit Terms view users can create terms that have values associated to them. These values are stored in the C\_METADATA column in the custom metadata table. Prior to release 1.7.03 when you created or edited a term with values in the Edit Tool view, the metadata was stored in the table with carriage returns / line feeds. This change improves the way the metadaxml is filed into the table by removing all line feeds from the data before filing it into the C\_METADATA column.

# i2b2 Release 1.7.02

**Release Date:** July 1, 2014

## Installation Notes

- This release note applies to you if you are **upgrading to 1.7.02** from an earlier version of i2b2.
- If you are installing 1.7.02 from a computer running the i2b2 Workbench, ensure that the workbench and all eclipse applications are closed prior to installing this release.
- If you are installing a new instance of i2b2 we recommend you refer to the installation documentation found on the i2b2 community wiki. This documentation will guide you through the entire installation process.

## Upgrade Notes

i2b2 Release 1.7.02 contains changes to the following software components:

- Database Scripts
- i2b2 Server
- i2b2 Web Client
- i2b2 Workbench

## Third Party Software Changes

No changes to third party software are included in release 1.7.02

## Change Summary - i2b2 Core Software - Version 1.7.02

### Improvements

- [CORE-95] - Password Management Enhancement
- [CORE-123] - Update demo patient MRNs and sites

### Bug Fixes

- [CORE-26] - "Your account does not have access to any i2b2 projects" in admin webclient

- [CORE-36] - Attempt to add a new CEL via the admin webclient fails
- [CORE-80] - Date restrict on non obs\_fact values not added to generated SQL
- [CORE-86] - Ontology contains bad XML
- [CORE-91] - PostgreSQL: Error executing CRC stored procedure CREATE\_TEMP\_PROVIDER\_TABLE
- [CORE-92] - Wrong user name entered in PM's datasource file for PostgreSQL and SQL Server examples
- [CORE-93] - compare integer with varchar
- [CORE-94] - Wrong built SQL statement causing SQLSyntaxErrorException at GetPDOFromInputList request
- [CORE-97] - User and cell configuration (data) in the Admin module does not display in some browsers
- [CORE-98] - Patient breakdown result types are not working when querying a PostgreSQL database
- [CORE-99] - Cell data changes made in i2b2 Admin are not saved
- [CORE-100] - Error executing CRC stored procedure CREATE\_TEMP\_PROVIDER\_TABLE (PostgreSQL)
- [CORE-101] - Error occurs when expanding an Encounter set in Previous Queries
- [CORE-102] - PM datasource file has the wrong username listed in the example
- [CORE-103] - Error returned from the CRC when running a query with result type of Encounter set
- [CORE-116] - On Amazon Demo site, the Visit Detail AGE does not work
- [CORE-120] - Change Password displaying in Managers Tool View
- [CORE-125] - Query using concepts from the clinical trials folder always returns zero patients

## Change Summary - i2b2 Web Client Software - Release 1.7.02

### Improvements

- [WEBCLIENT-56] - Password Management Enhancement

### Bug Fixes

- [WEBCLIENT-27] - Wrong icon appears when dragging folder to Workplace View
- [WEBCLIENT-43] - ontology cell concept navigation "Show Synonymous Terms" checkbox inconsistency
- [WEBCLIENT-46] - Renaming shared folders doesn't work in the webclient
- [WEBCLIENT-47] - "Delete Concept" in I2B2 web app deletes the first occurrence of the concept, not the one selected
- [WEBCLIENT-51] - Only 1 temporal relationship sent in xml even though multiple are defined
- [WEBCLIENT-52] - Modifier folders/containers don't work with i2b2 v1.7 and PostgreSQL
- [WEBCLIENT-54] - When an item in the Term Navigator has more than a certain number of elements underneath, the arithmetic in the 'Need more items' dialog box is incorrect
- [WEBCLIENT-55] - With error in data source the client runs on forever
- [WEBCLIENT-58] - Operators do not default correctly when adding a temporal relationship
- [WEBCLIENT-59] - Print Query not working in Chrome browser

### Tasks

- [WEBCLIENT-61] - Disable changing passwords on the demo site

## Improvement / New Feature Details

### Password Management

JIRA ISSUES: [CORE-95] and [WEBCLIENT-56]

In release 1.7.02, i2b2 users are now able to change their password from within the i2b2 Web Client and Workbench. Previously to this release, users did not have the ability to change their own password. They would have to notify their administrator who would have to change it for them in the i2b2 administration module. This new feature adds a layer of security in that the user can manage their own password and not have the added risk of other users (i.e. the admin) knowing their password.

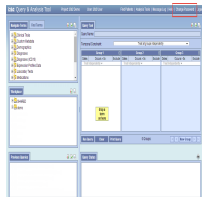


#### Important

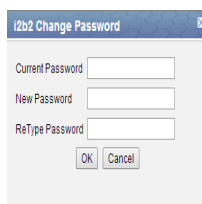
If a user is setup to log into the i2b2 using either Active Directory or LDAP authentication methods then they will **not** be able to change their password from within the i2b2 Web Client or Workbench. If they need to change their password they will need to contact their site administrator and follow the protocols established at their institution.

***This feature is only available for those users that log in with the standard i2b2 Authentication method.***

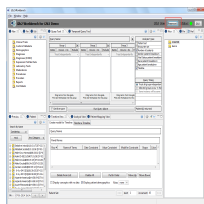
In the i2b2 Web Client, a new option called **Change Password** now appears in the Web Client's toolbar.



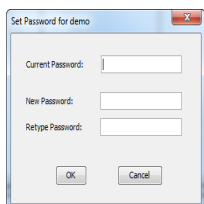
Clicking on **Change Password** will open the **i2b2 Change Password** window.



In the i2b2 Workbench, a new button labeled **Password** has been added to the i2b2 desktop title bar.



Clicking on **Password** will open the **Set Password window**.



The functionality to change your password is the same regardless of whether you access the change password window from within the i2b2 Web Client or the workbench. There are basically three steps:

1. Enter your **current password**.
2. Enter a **new password** for your user.
3. **Retype** your password.

Once you do the above three steps and click on **OK** the system will verify you entered your "current" password correctly and the password you entered at the *New Password* and *Retype Password* fields match. Provided everything is correct your new password will be saved.



#### Note

Once you change your password you will need to log out of the Web Client or Workbench and log back in using your new password.

## i2b2 Release 1.7.01

**Release Date:** February 4, 2014

## Installation Notes

- This release note applies to you if you are **upgrading to 1.7.01** from an earlier version of i2b2.
- If you are installing 1.7.01 from a computer running the i2b2 Workbench, ensure that the workbench and all eclipse applications are closed prior to installing this release.
- If you are installing a new instance of i2b2 we recommend you refer to the installation documentation found on the i2b2 community wiki. This documentation will guide you through the entire installation process.

## Upgrade Notes

i2b2 Release 1.7.01 contains changes to the following software components:

- Database Scripts
- i2b2 Server
- i2b2 Web Client

## Third Party Software Changes

No changes to third party software are included in release 1.7.01

## Change Summary - i2b2 Core Software - Version 1.7.01

### Improvements

- [CORE-88] - Confusing error message logged for non-Oracle users

### Bug Fixes

- [CORE-83] - Trying to build and compile i2b2 Server on Fedora Core 20 with Wildfly 8.0.0
- [CORE-85] - Fresh install fails on PM Module and admin screen
- [CORE-87] - Installation process needs to put database drivers in i2b2.war/WEB-INF/lib
- Data Install: The stored procedures for PostgreSQL for the CRC Loader was enhanced and optimized.
- Server Install: JDBC Drivers not copied correctly. When installing i2b2 server-common, the JDBC drivers were not copied into the i2b2.war/WEB-INF/lib directory.
- CRC-Loader: Importing Visit Dimension Data. When using the CRC Loader, some primary key data such as inout\_cd, location\_cd, length\_of\_visit, etc, was not being imported correctly.

### Documentation

- [CORE-58] - Workbench 1.6 and default install
- [CORE-77] - I2B2 installation Guide fixes
- [CORE-90] - Install Documentation: Wrong schema configurations documented for a PostgreSQL database



# Change Summary - i2b2 Web Client Software - Release 1.7.01

## Bug Fixes

- [WEBCLIENT-48] - Web client gets into non-functional state
- Clicking on the Clear button does not return the Query Tool to the default settings. When a temporal query is created, and a user clicks on the clear button to start a new query, the Temporal Constraint is changed to "Define sequence of events" and it should default to "Treat all groups independently."
- Date constraints not being stored with the previous query. When a date constraint was defined on a query the previous query would not maintain the constraint when you would use it to run another query.

## i2b2 Release 1.7

**Release Date:** December 20, 2013

## Installation Notes

- This release note applies to you if you are **upgrading to 1.7** from an earlier version of i2b2.
- If you are installing 1.7 from a computer running the i2b2 Workbench, ensure that the workbench and all eclipse applications are closed prior to installing this release.
- If you are installing a new instance of i2b2 we recommend you refer to the installation documentation found on the i2b2 community wiki. This documentation will guide you through the entire installation process.

## Upgrade Notes

i2b2 Release 1.7 contains changes to the following software components:

- Database Scripts
- i2b2 Server
- i2b2 Web Client
- i2b2 Workbench

## Third Party Software Changes

In release 1.7 the **i2b2 Server** has been updated to use the following versions of third party software.

1. JBoss has been upgraded to 7.1.1

2. Apache Ant has been upgraded to 1.8.2
3. Apache Axis2 has been upgraded to 1.6.2



#### Warning

Only the i2b2 Server was upgraded to use the above versions of JBoss, Ant, and Axis2. The i2b2 Workbench will continue to use the previous versions. As a result, the source codes for the server and the workbench client have different plug-ins for the commons.

Server edu.harvard.i2b2.server-common

Client edu.harvard.i2b2.common

## Change Summary - i2b2 Core Software - Release 1.7

### Improvements

- Find Terms: New feature called "Jump to Term in Tree"
- Previous Query: Filter list by user
- Previous Query: Search Previous Queries View
- Previous Query: Page through previous queries by date
- Database: PROJECT\_ID Column added to PATIENT\_MAPPING and ENCOUNTER\_MAPPING tables (support for new IM cell)
- Demo Data: Updated PATIENT\_MAPPING table to support the new IM cell.

### New Features

- Temporal Queries (New Temporal Query Tool View)
- Identity Management Cell (IM)
- Identity Management Tables
- Managers Tool View
- OpenEMPI Support
- Patient Mapping View
- Patient Sets View
- PostgreSQL Database Support
- Workplace Find View

### Bug Fixes

- [\[CORE-5\]](#) - CRC build from source deposits i2b2Common-core.jar in wrong directory

- [\[CORE-70\]](#) - I2b2 compilation of CRC Cell fails
- [\[CORE-74\]](#) - Typo in i2b2\_config\_data.js of admin interface
- [\[CORE-81\]](#) - No PATIENT\_NUM in OBSERVATION\_FACT\_PK (conflict with documentation)

## Documentation

- Architecture, design and messaging documents for the new Identity Management (IM) Cell.
- Design documentation for the new Temporal Query Tool plug-in.
- User guide for the new Temporal Query view.
- Documentation for the new views (Patient Set, Patient Mapping, Managers Tool, and Find in Workplace).
- [\[CORE-8\]](#) - Suggestions for improvements to installation documents
- [\[CORE-75\]](#) - CRC\_Design.pdf page numbers are broken, all page numbers are set to 1 of 1, 2 of 2, etc. instead of 1 of xx
- [\[CORE-78\]](#) - Errors in I2B2 Hive Installation Guide v 1.7.0

## Tasks

- [\[CORE-45\]](#) - Establish CRCLoader project (eclipse) from exiting ant build file failed

# Change Summary - i2b2 Web Client Software - Release 1.7

## New Features

- Temporal Queries (Modification made to existing Query Tool)

## Documentation

- [\[WEBCLIENT-40\]](#) - Webclient: documentation should state that php and curl are prerequisites for the webclient

## Improvement / New Feature Details

### Temporal Queries

The **temporal query** is a new type of query introduced in release 1.7. There are two components to these queries that make them a little more complex than the type of queries available prior to 1.7 (classic i2b2 queries).

The first component to these queries is the list of events defined by the user.

The second component is the relationship between the events. This relationship is referred to a Temporal Relationship, which is best described as how the different events relate in regards to the time in which the event(s) occurred.

Users can also define a patient or event population in which they wish to run the temporal query against. This step is optional and is not required in order to run the temporal query.

The process in which temporal queries are defined is slightly different in the i2b2 Web Client and the i2b2 Workbench. In the i2b2 Web Client the existing Query Tool view has been modified to accommodate Temporal Queries while a new view called Temporal Query Tool view has been created for the i2b2 Workbench.

The new Temporal Query Tool view and the modifications to the existing Query Tool view extend the query functionalities provided by the classic Query Tool view.


It is important to note that while the manner in which users setup a temporal query is different in each of the clients the overall functionality is the same.

The following two sections will describe how to run Temporal Queries in the i2b2 Web Client and the i2b2 Workbench.

## i2b2 Web Client: Temporal Queries

In the i2b2 Web Client there are five basic steps in defining a *temporal query* in the **Query Tool view**.

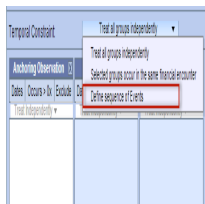
- 1. Change *Temporal Constraint* to **Define sequence of Events**.
- 2. Define *Population in which events occur* (optional step).
- 3. Define Events
- 4. *Define order of events* (temporal relationships)
- 5. Run the query

**Note**

For detailed information about creating Temporal Queries please see the Temporal Query help file located on-line from within the i2b2 Web Client.

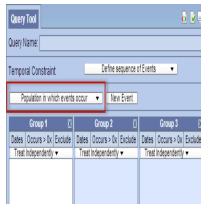
### Step 1: Change Temporal Constraint

The first step is to change the Temporal Constraint to *Define sequence of Events*.



### Step 2: Define Population in which events occur

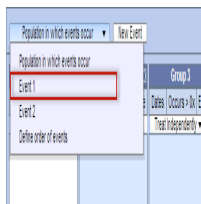
Once you have changed the Temporal constraint to be *Define sequence of Events* a new **Page selection box** will appear below the Temporal Constraint section. The default page will be **Population in which events occur**. It is on this page you will define your population requirements.



### Step 3: Define Events

The events are the first component of a temporal query. There are no restrictions on the number of events you wish to define. The only requirement is that you have to define at least two events.

To define the events simply click on the *Page selection box* and select **Event 1** from the drop-down list.



The groups and constraints for the events work in the same manner as they did for a traditional i2b2 query. Simply drag the items you want to include in Event 1 to the appropriate groups.

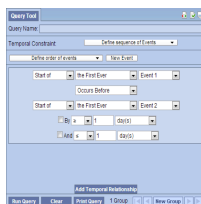
Once you have added your items to the groups you can click on the *Page selection box* and select **Event 2** from the drop-down list. This will change the page to display the groups for Event 2.

If you need to add a third event you can click on the **New Event button** located next to the *Page selection box*.

### Step 4: Define Order of Events (Temporal Relationship)

As stated earlier the second component of a temporal query is the relationship between the events (temporal relationship). In the i2b2 Web Client this is done on the **Define order of events page**, which is accessed by clicking on the *Page selection box* and selecting **Define order of events** from the drop-down list.

The page will display as follows:



### Step 5: Run Query

In the Web Client running a query works the same regardless of whether or not it is a Temporal Query or a traditional i2b2 query. By clicking on the **Run Query button**, the i2b2 client will send the request to the i2b2 server which will run the query as defined.

## i2b2 Workbench: New Temporal Query Tool View

In the i2b2 Workbench there are three pages or steps in defining and running a *temporal query* in the new **Temporal Query Tool view**.

1. Page 1: Define Population
2. Page 2: Define Temporal Relationships
3. Page 3: Review and Submit Query

## i2b2 Workbench: New Temporal Query Tool View

### Define Date Constraints and Exclusions in Temporal Query Tool View

#### Defining the Date Constraints

#### Exclude Panel

Each page as well as defining constraints is further defined in the next few sections.

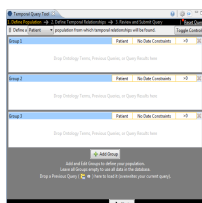


#### Note

For detailed information about using the Temporal Query Tool view, please see the help file for this view which is available on-line from within the i2b2 Workbench.

### Page 1: Define Population

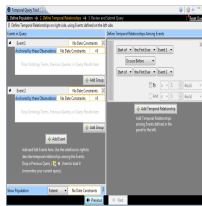
On this page you will define your population requirements.



## Page 2: Define Temporal Relationships

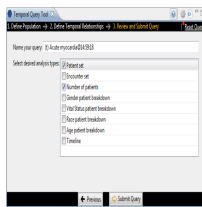
As stated earlier there are two components to a **temporal query**; (1) List of events and (2) the relationship between the events.

The second page is where you will define both the events and their relationship.



## Page 3: Review and Submit

On this page the name of the query will default and if you wish to rename it you can do so at this point. Whatever is entered here will be the name given to the query when it is run. In addition you can select the Analysis Types that you want when running the query.



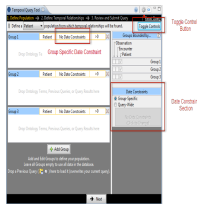
## Defining Date Constraints and Exclusions in Temporal Query Tool View

There are some minor differences in terminology or layout that needs to be noted in this release note.

## Defining the Date Constraints

In the classic Query Tool view you can only define date constraints on the group / panel level. In the new Temporal Query Tool view you can now define a date constraint on either the query or group levels. If you define it on the query level it will default the same date constraint for all the groups and the date constraint on the panel level will not be available for selection.

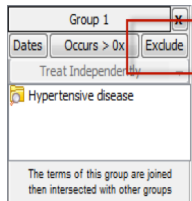
If you want to define it on the panel level select **Group-Specific**. Go to the group you wish to define the constraint and click on the column that displays *No Date Constraints*.



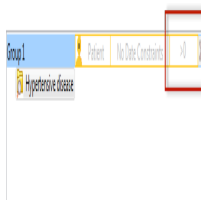
## Exclude Panel

The ability to exclude all items in a group does exist in the new Temporal Query Tool view. However, the method in which it is defined differs between the classic Query Tool view and the Temporal Query Tool view.

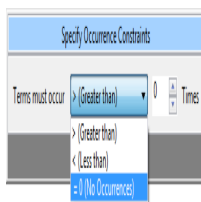
In the existing **Query Tool view ("Classic")** the exclusion constraint was defined by clicking on the button labeled *Exclude*.



In the **Temporal Query Tool view (New)** the exclusion constraint was rolled into the window for defining the Occurrence constraint.



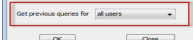
The *Specify Occurrence Constraints* windows will open when you click on the box that displays the occurrence constraint. To set the exclusion constraint you need to select " $= 0$  (No Occurrences)" from the drop-down list.



The above option is equivalent to the *Exclude* feature in the classic Query Tool view.

## Previous Query: Filter list by user



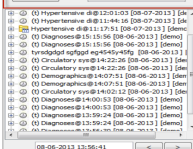


In i2b2 only managers are allowed to view queries for another user, therefore this feature is only available to those users who have the role of **MANAGER** defined for the project. If a user does not have the manager role then this field will be inactive and unavailable for selection.

**Previous Query: Search Previous Queries View**

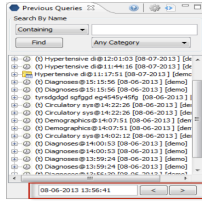
In release 1.7 the ability to search the Previous Queries view has been added. The functionality is very similar to *Find Terms* view except it will search the *Previous Queries* view instead of *Navigate Terms* view. Users can search any of the three levels:


1. Previous Query (name)
2. Previous Query Result
3. Patient




### Previous Query: Page through previous queries by date

Users can now retrieve the next or previous grouping of previous queries by the date in which the query was created.



The *Previous button*  will retrieve the group of previous queries that occur **prior** to the date displayed in the date / time field.

The *Next button*  will retrieve the group of previous queries that occur **after** the date displayed in the date / time field.

## Identity Management Cell (IM)

A new cell called the Identity Management (IM) Cell was developed in release 1.7. This new cell contains Protected Health Information (PHI), which can be used to identify patients. The IM cell is used to manage this PHI in a manner consistent with the HIPAA privacy rule. The patient data will be available only as a HIPAA defined "Limited Data Set" to most of the hive.

The full functionality of the IM cell will be developed in stages. The initial framework and key services are released as part of the 1.7 release. Some of the key features being released in 1.7 are:

1. New tables to store identifiers from different sites, and patients that are included in a project.
2. Audit controls are implemented that are in compliance with the HIPAA privacy rules.
3. Services developed to set and validated an AES key for encrypting and decrypting patient MRNs in the IM cell.
4. Unencrypted patient identifiers sent in the PDO can be processed through the IM cell to retrieve all site IDs for the patient and project.

In addition to the above features, the i2b2 Workbench (eclipse client) has two new views that were created to support the new IM cell. These new views, called **Patient Mapping** and **Admin Tool** are further defined in the following two sections called *Patient Mapping View* and *Admin Tool View*.

## Managers Tool View

The **Managers Tool** view was developed in release 1.7 and works in conjunction with the IM Cell. It currently has two main functions.

1. Set and / or validate that the project key is defined in the IM Cell.
  - The project key is used by the IM cell to decrypt the patient id's that are encrypted.
  - The Set Key is used to define the key in the IM cell.
  - The Validate Key is used to verify the key is set.



### Important

If you are using the IM cell and your patient identifiers are encrypted the you need to set the Project key in the IM cell. It is important to note that if you restart your i2b2 server or in the case of the VM image restarting the virtual machine then you will need to re-enter the project key.

The project key for the i2b2 demo project is: **i2b2demodatakey1**

In the VM image you need to log into the i2b2 Workbench as the i2b2 Admin user.

User ID: i2b2

Password: demouser

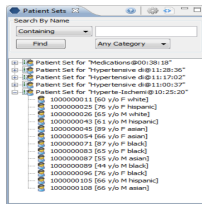
## 2. View the audit information.

- As part of the IM cell an audit table was created to track when a patient in the IM cell was accessed. This new view allows Project Managers or Administrators to run a report to see that audit information. The report can be run for a particular user, patient, or all audit information for the project you are logged into.

## Patient Sets View

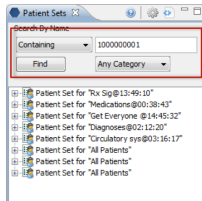
In release 1.7 a new view called **Patient Sets** was created. This new view will display a list of *Patient sets* that were created when a query was run. It is similar to the Previous Queries view except it only displays the patient sets and not the previous query or other result sets (i.e. Encounter sets, Number of patients, etc).

The patient sets can be expanded to display a list of patients.



Users can drag an entire patient set or a single patient to other views in the i2b2 Workbench.

Users can also perform a search in which they can search by the name of the patient set or for a list of patient sets that contain a specific patient.



## Workplace Find View

A new view called **Find in Workplace** was created in release 1.7. This view is very similar to the *Find Terms* view except it will search the *Workplace* view instead of the *Navigate Terms* view.

## Find Terms: New feature called "Jump to Term in Tree"

A new feature called **Jump to Term in Tree** has been added to the *Find Terms* view. Users can now easily jump directly to a term in the *Navigate Terms* view from the *Find Terms* view.

Once a term is found in the *Find Terms* view the user can click on the term using the *right mouse button* to display the pop-up menu. Selecting "Jump to Term in Tree" from the pop-up menu will bring the *Navigate Terms* view into focus and the hierarchical tree will automatically open to the location of the term selected in the *Find Terms* view.

## OpenEMPISupport

OpenEMPI is an open source Enterprise Master Patient Index (EMPI) which is developed and supported by another community. The i2b2 IM cell has been developed to allow communication with OpenEMPI for those sites that choose to use it as their patient repository.

For additional information on OpenEMPI please see their website by going to the following location: <https://openempi.kenai.com/>

## PostgreSQL Database Support

The ability to use a PostgreSQL database as an i2b2 database has been added to release 1.7. Both the create and insert data database scripts for PostgreSQL are included in this release.

## Data: New Tables created for the IM Cell

The following new tables were created as part of the new IM cell.

Table Name	Description
IM_MPI_DEMOGRAPHICS	Contains General demographic information for the patients.
IM_MPI_MAPPING	Maps the patient's <i>i2b2 number</i> and the <i>local MRN</i> .
IM_PROJECT_SITES	Contains information about the different sites (Source Systems).
IM_PROJECT_PATIENTS	Stores the patients that are part of a project(s).
IM_AUDIT	Stores the audit details of patients accessed in the IM cell. This includes; the user, site, and project requesting the access as well as the date in which it was accessed.

## Data: New Columns added to support IM cell

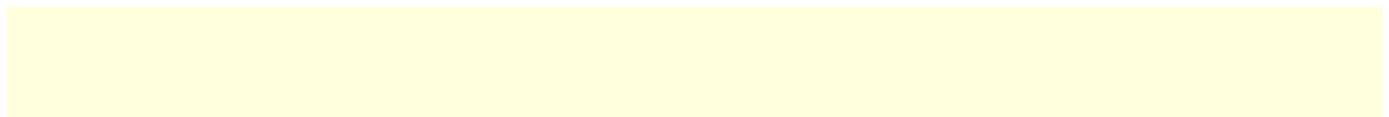
A new column called **Project\_ID** has been added to both the **PATIENT\_MAPPING** and **ENCOUNTER\_MAPPING** tables in the crc. The PROJECT\_ID was added to support the IM cell. It will allow sites to track which project a patient is part of.

## Data: Improved Patient Mapping Data

The **PATIENT\_MAPPING** table in the CRC has been updated to include the following:

- Mappings of existing patients to multiple site MRNs.
- Project IDs added to patients.

Demo data has been added to all of the new IM tables except the AUDIT table. This IM data was added to provide examples for using the new IM cell.



**Important**

The mapping information added to the CRC and IM tables is strictly for demonstration purposes and does NOT contain real patient information.

## New PostgreSQL Database Scripts

The i2b2 database scripts have been updated to include the table creation and data insert scripts for a PostgreSQL database.

## Licensing

The i2b2 source code is licensed under the i2b2 Software License 2.1. This includes but is not limited to all code in the edu.harvard.i2b2.\* package namespace.

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