

# Release Notes - Platform 2.0.0 Alpha

This version of OpenMRS Platform is a prerelease and not considered worthy for production use. Its function is to give users an idea of what to expect in the upcoming major release (Platform 2.0.0) and help discover any possible obscure new bugs.

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## What's New

OpenMRS Platform 2.0.0 Alpha is the first pre-release for testing, leading up to an eventual release of Platform 2.0 in early 2016.

### Platform 2.0: The New Era

The Platform 2.0 release will mark a new era for OpenMRS.

Fundamentally, **Platform 2.0 will be the first version of OpenMRS that truly embraces its role as a Platform: the base installation does not include a user interface, and you can only interact with it through web services.** This will enable OpenMRS Platform to serve as a true back-end service, and a foundation upon which people can innovate with modern web application frameworks.

Simultaneously, we are also cleaning up our Java APIs by removing all the deprecated methods that have built up over the last decade of OpenMRS releases, and modernizing by running on Java 8, and upgrading libraries like Spring and Hibernate.

These are fundamental changes, not all of which are backwards-compatible, and we are marking the occasion by increasing the major version of the Platform for the first time in OpenMRS's history.

You can [download](#) Platform 2.0.0 Alpha to try/test it

## New Features

(See below for the complete list in the [change log](#) section)

- Migrated LegacyUI to the **LegacyUI module**.
- Added support for **Java 8**, **Spring 4.1.4**, **Hibernate 4.3.9**
- Moved **Allergy API** into OpenMRS core.
- Removed deprecated methods from core API

## What this means?

- To use LegacyUI with Platform 2.0.0 Alpha, you have to [install the LegacyUI module](#). Neither of Platform 2.0.0 Alpha Standalone, Sourceforge distro or openmrs-core github projects come bundled with it
- If your module uses any deprecated API methods from OpenMRS 1.x, appropriate changes may be required to run it on Platform 2.x
- If your module builds with Java 6 or Java 7 or uses Hibernate 3.x, it might be a good idea to check it's compatibility with Platform 2.x. A number of modules have already been [ported to work with Platform 2.x](#).

A huge thanks to the 67 people that contributed code to this release: Aashna GargAkshika Wijesundara, Alexei Grigoriev, Alexis Duque, Arkadiusz Koodziejewski, Bhavana Ramasayam, Chethan A, Clifton McIntosh, Daniel Kayiwa, Darius Jazayeri, Dave Lahn, David Churcher, Filip Biedrzycki, Gaurav Narula, Geoffrey Wasilwa, Harsha Kumara, Imran Tatriev, Ivange Larry, Jakub Buczynski, Jakub Kondrat, Judy Gichoya, Julius Duic, Kishore Yekkanti, Kristopher Schmidt, MA Corrales, Manika Maheshwari, Mark Goodrich, Michael Downey, Michael Hofer, Michael Souza, Mihir Khatwani, Mikko Suniala, Nicholas Folk, nilmadab mondal, Pawe Muchowski, Priya Samuel, Radosaw Puzdrowski, Rafal Korytkowski, Robert Day, Roman Zayats, Ryan Crichton, Sam Dale, Sandeep Raparathi, Sashrika Waidyarathna, Satwik Reddy, Sebastian Theis, Sergey Morozov, Sharon Varghese, Shubham Rai, sravanthi narahariseti, Tanay Abhra, Tharunya Pati, Thilo Beckmann, Thomas Van Doren, tobias

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Not to mention all the people that contributed in countless other ways to support this release and be a great part of the shaping of this release: pbiondich, mdowney,

## Community Input

We welcome any user to [download](#) OpenMRS Platform 2.0.0 Alpha and try it out, give us feedback, and potentially bug reports on this release. We especially ask current users try this version out on their own database and with their custom modules.

Even if you don't have time to do any thorough testing, we'd really appreciate it if you can upgrade a copy of your database to the 2.x data model, and report on any errors than may occur in the upgrade script.

If a new bug is found, send an email to one of the [mailing lists](#) or [create a new JIRA ticket](#) (click upper right icon) Signup for an [?OpenMRS ID](#)

We request module owners to verify their module works with Platform 2.0.0 Alpha. A number of modules have already been ported. Please follow the instructions mentioned in [RA-954](#)

We request the implementers to try out Platform 2.0.0- Alpha with the latest RefApp release in a staging environment. It would be great to know about features that are missing or need to be introduced in the upcoming releases.

We do *not* recommend using this in a production environment!

## Download

- [Download](#) Platform 2.0.0 Alpha
- [Download Standalone](#) for Platform 2.0.0 Alpha

## Bundled Modules

These modules are bundled with the 2.0.0-alpha openmrs.war download. They will be started automatically.

- [webservices.rest 2.13](#)
- [FHIR 1.0](#) (currently not on [modules.openmrs.org](#))  
Additionally, [LegacyUI Module 0.1](#) can be installed to use the LegacyUI

## Milestones

For Platform 2.0.0 alpha, we have focused largely on the following features

- [TRUNK-4550](#) Allow OpenMRS to build and run on JDK 8
- [TRUNK-4584](#) Upgrade to Sprint 4.x
- [TRUNK-4364](#) Upgrade to Hibernate 4
- [TRUNK-4747](#) Move Allergies API into the core platform
- [TRUNK-4772](#) Remove Deprecated methods
- [Migration of LegacyUI to the module](#)

## Changelog

### Database

- Updating layout.address.format global property
- Removing dashboard.regimen.standardRegimens global property
- Encrypting the users.secret\_answer column
- Temporarily removing foreign key constraint from person\_attribute\_type.edit\_privilege column
- Temporarily removing foreign key constraint from role\_privilege.privilege column
- Increasing the size of the privilege column in the privilege table
- Adding foreign key constraint to person\_attribute\_type.edit\_privilege column
- Increasing the size of the privilege column in the role\_privilege table
- Adding foreign key constraint to role\_privilege.privilege column

- Adding foreign key on patient\_identifier.patient\_id column
- Add changed\_by column to encounter\_type table
- Add date\_changed column to encounter\_type table
- Create allergy table
- Create allergy\_reaction table
- Add allergy\_status field to the patient table
- Custom changeset to migrate allergies from old to new tables
- Removing the active\_list\_problem table (active\_list feature removed)
- Removing the active\_list\_allergy table (active\_list feature removed)
- Removing the active\_list table (active\_list feature removed)
- Removing the active\_list\_type table (active\_list feature removed)
- Add drug\_non\_coded column to drug\_order table
- Adding address columns (7-15) to person\_address and location

## Bugs (after OpenMRS Platform 1.11.5)

- [TRUNK-4779](#) Cache reflection info for calls in RequiredDataAdvice
- [TRUNK-4752](#) User password should be validated before changing it
- [TRUNK-4746](#) Default error handlers should display the appropriate error message
- [TRUNK-4745](#) UpdateFilter should not depend on InitializationFilter being initialized before it
- [TRUNK-4741](#) Corrected message\_es properties file for spanish
- [TRUNK-4737](#) Remove liquibase changeset that doesn't belong
- [TRUNK-4731](#) Task throws and Exception error when stopping a related module
- [TRUNK-4729](#) EncounterType is missing changedBy and dateChanged fields
- [TRUNK-4725](#) ContextWithModuleTest inconsistent failure
- [TRUNK-4724](#) BeanCreationException during spring application context refresh should stop loading of the application
- [TRUNK-4721](#) Performance issue with version of H2 that we are using
- [TRUNK-4711](#) Clean up javadocs
- [TRUNK-4703](#) jetty-maven-plugin invalid configuration
- [TRUNK-4692](#) Performance improvement in LocationService getLocationsHavingAllTags
- [TRUNK-4691](#) Concept and ConceptService.saveConcept should automatically set the value of "is\_set"
- [TRUNK-4690](#) Orders.orderer column cannot be set to NOT NULL until after user to provider migration occurs
- [TRUNK-4687](#) NonUniqueObjectException when modifying a concept
- [TRUNK-4683](#) [TRUNK-4630](#) fix still have issue
- [TRUNK-4675](#) Italian Create Patient Label displayed in English
- [TRUNK-4672](#) Correctness - int value cast to float and then passed to Math.round
- [TRUNK-4669](#) Blank Concept Information Page
- [TRUNK-4660](#) Administration page does not display
- [TRUNK-4658](#) Correctness - Possible null pointer dereference in method on exception path
- [TRUNK-4657](#) Method may fail to clean up stream or resource on checked exception
- [TRUNK-4654](#) Performance - Method invokes inefficient Number constructor; use static valueOf instead
- [TRUNK-4653](#) Dodgy - Dead store to local variable
- [TRUNK-4652](#) Correctness - Method call passes null for nonnull parameter
- [TRUNK-4650](#) Multithreaded correctness - Static DateFormat
- [TRUNK-4646](#) Support compressed requests
- [TRUNK-4645](#) Thread.run() and Runnable.run() should not be called directly
- [TRUNK-4644](#) Correctness - Possible null pointer dereference
- [TRUNK-4643](#) Performance - Method concatenates strings using + in a loop
- [TRUNK-4640](#) Throwable.printStackTrace(...) should never be called
- [TRUNK-4635](#) Cancel button doesn't allow to exit Creating New Concept Page
- [TRUNK-4634](#) Dodgy - Write to static field from instance method
- [TRUNK-4633](#) Correctness - Invocation of toString on an array
- [TRUNK-4632](#) Dodgy - Redundant nullcheck of value known to be non-null
- [TRUNK-4630](#) System default locale not in allowed\_locales, causes AdminService error
- [TRUNK-4627](#) Use StringUtils.isEmpty(stringObject) instead of (stringObject == null || stringObject.equals(""))
- [TRUNK-4622](#) Correct surefire exclude test
- [TRUNK-4618](#) Fix class loading performance issues
- [TRUNK-4617](#) patient\_identifier.patient\_id is missing foreign key to patient
- [TRUNK-4615](#) Bad practice - Method may fail to close database resource
- [TRUNK-4614](#) Multithreaded correctness - Call to static DateFormat
- [TRUNK-4613](#) Eliminate critical issues reported by Sonar
- [TRUNK-4612](#) Correctness - Call to equals() comparing different types
- [TRUNK-4611](#) Multithreaded correctness - Incorrect lazy initialization of static field
- [TRUNK-4605](#) OrderEntryIntegrationTest fails due to timing of discontinued order
- [TRUNK-4603](#) Exception when running SchedulerFormControllerTest under Java 8 (onSubmit\_shouldNotRescheduleATaskThatIsNotCurrentlyScheduled) [TRUNK-4597](#) Exception when running WebModuleUtilTest under Java 8
- [TRUNK-4596](#) Exception when running PortletTagTest under java 8
- [TRUNK-4595](#) Exception When Running ExtensionUtilTest under Java 8
- [TRUNK-4594](#) DownloadDictionaryServletTest Fails under Java 8
- [TRUNK-4593](#) DownloadDictionaryServletTest Fails under Java 8
- [TRUNK-4592](#) PatientDashboardGraphControllerTest Fails under Java 8
- [TRUNK-4590](#) Exception when Executing Test with Java 8
- [TRUNK-4587](#) Warning During Compilation - HttpClient

- TRUNK-4586 Warning During Compilation - KeepAliveCache
- TRUNK-4582 Adding a coded answer to the concept causes ConstraintViolationException
- TRUNK-4580 When revising an order, the previous order should be stopped an instant before the new one starts
- TRUNK-4576 Concept Dictionary CSV download - looping issue causes incorrect output
- TRUNK-4574 Fix Integration test failure
- TRUNK-4573 Improve migration of concept name tags to types
- TRUNK-4569 Calculated autoexpire date should be one second earlier
- TRUNK-4561 Minor comments error in web.xml
- TRUNK-4545 Fix failing tests in EncounterServiceTest
- TRUNK-4542 Add new role doesn't work on branch master
- TRUNK-4534 The scripts on the long patient form get broken if a patient has more than 10 identifiers
- TRUNK-4531 Encounter Provider Names not shown for providers not linked to a person on patient dashboard visits tab
- TRUNK-4529 Prevent voiding a Person linked to Provider(s) and/or User(s) metadata
- TRUNK-4523 Person attributes are not being displayed when viewing a voided person
- TRUNK-4522 If JVM is 1.8, some tests do not pass.
- TRUNK-4520 Cannot add synonym to a concept and error message is not helpful
- TRUNK-4514 OpenMRS does not start if JVM is 1.8
- TRUNK-4509 Cannot edit concept description to empty
- TRUNK-4507 Translate more messages for the hindi locale
- TRUNK-4506 Heading of the admin page should use the localized message
- TRUNK-4500 Use of APIException not localized (mostly)
- TRUNK-4499 AddressTemplate should not display default when the changes are invalid
- TRUNK-4497 Hide or disable (option of selecting) a child role instead of throwing an error
- TRUNK-4495 Settings page returns 500
- TRUNK-4492 Remove the tribe field from the 'patient' table
- TRUNK-4482 Voided encounters shows in the current visit in patient header
- TRUNK-4481 Mapping concept proposal to synonym can create duplicate concept names
- TRUNK-4480 Patient search yields "No matching records found" when there are matching records
- TRUNK-4473 Form Resource (Long-Text) causes error with binary file upload
- TRUNK-4468 Error when viewing patient form for deleted patients
- TRUNK-4466 Schema design "Find Form Elements" box should be always be visible
- TRUNK-4463 dashboard.overview.showConcepts GP should either receiver spaces after/before each concept id or change the description to inform the user not to enter them
- TRUNK-4462 Change failed module's name from org.openmrs.module.xxx x-version to xxx x-version
- TRUNK-4459 HTML tags are shown on merge patient page
- TRUNK-4458 Default locale message is in English when you select the français locale
- TRUNK-4457 Make User.hasRole() case insensitive.
- TRUNK-4456 Add error checking to relationship future start/end dates on patient dashboard
- TRUNK-4454 Hide 'Show N entries' on the patient dashboard under encounters
- TRUNK-4429 Add check that default locale is amongst allowed locales list
- TRUNK-4419 Change Database1\_9\_7UpgradeTest to integration test
- TRUNK-4418 Fix random failure of ModuleActivatorTest
- TRUNK-4417 "equals(Object obj)" and "hashCode()" should be overridden in pairs
- TRUNK-4416 Throwable and Error classes should not be caught
- TRUNK-4406 Remove duplicate keys from message resource files
- TRUNK-4380 Location parent not displayed when location widget is "tree" view
- TRUNK-4354 Retired Location Attributes are shown when editing a Location or adding a new Location
- TRUNK-4350 OpenmrsClassLoader may chose wrong ModuleClassLoader when one module name is a substring of another module name and there is a period in the name
- TRUNK-4345 Non ASCII characters do not display correctly in spanish
- TRUNK-4338 Don't show the "Add Provider" link for users that don't have the "Manage Providers" privilege
- TRUNK-4337 Remove deprecated org.openmrs.reporting
- TRUNK-4331 GitHub openmrs-core repo missing CONTRIBUTING.md file
- TRUNK-4328 Datepicker requires two clicks for the year menu to remain visible
- TRUNK-4315 [Create Provider] Invalid validation for both empty Field and Both Filled Field
- TRUNK-4313 [RelationshipType] Error due to the Empty Description
- TRUNK-4307 Incomplete error message in implementation id form
- TRUNK-4301 Including voided patients in openmrs 1.11.x
- TRUNK-4297 [Add User] Invalid Error Message for Blank Password
- TRUNK-4285 Incorrect behavior of Person.getPersonName() and getPersonAddress() for a voided Person
- TRUNK-4267 AlertServiceImpl.notifySuperUsers throws exception for exceptions with short stack traces
- TRUNK-4261 Error while submitting empty form in the page: "openmrs/admin/concepts/conceptReferenceTerm.form"
- TRUNK-4260 Error while submitting empty form in the page: "openmrs/admin/concepts/conceptSource.form"
- TRUNK-4251 Patient dashboard issue when using french locale
- TRUNK-4208 Gender and Birth date should not be required for persons linked to providers or users
- TRUNK-4148 Providers are no longer listed by default
- TRUNK-4140 Substitute deprecated method call in HibernateContextDAO
- TRUNK-4131 Coded concept broken with Most Recent Observation on dashboard
- TRUNK-4109 Add method to retrieve Observations based on their accession Numbers
- TRUNK-4054 Add missing version to maven-javadoc-plugin

- TRUNK-3982 SchedulerUtil locks out openmrs user with false log in attempts.
- TRUNK-3968 Need to have option to void Person when the person is also a patient
- TRUNK-3951 NotTransactional not working correctly
- TRUNK-3938 JSESSIONID should be assigned after a user has been successfully authenticated
- TRUNK-3937 Stored XSS in Location Pages
- TRUNK-3935 Stored XSS via Custom Form Fields
- TRUNK-3912 Task does not turn off automatically when uninstalling the module associated with it
- TRUNK-3888 Arden patch for ArdenServiceImpl in core api to support concept names regardless of a specific language
- TRUNK-3876 HibernateSerializedObjectDAO.saveObject should set auditable fields before serializing
- TRUNK-3850 Program validator is inefficient when checking for duplicates
- TRUNK-3849 Move Address and Name layout support classes from web layer to api layer
- TRUNK-3840 Retired concepts aren't showed as retired when listed as set members
- TRUNK-3780 Searching for patient with patient name/new feature
- TRUNK-3771 "Select Multi" should only be enabled for coded datatype in Edit FormField
- TRUNK-3722 Add partial previous stacktrace to error handler.
- TRUNK-3709 Secret answer should be encrypted
- TRUNK-3705 getName(Locale locale, boolean exact) simply calls getName() if exact = false
- TRUNK-3654 ModuleUtil should not treat SNAPSHOT as 999.
- TRUNK-3625 Cannot view saved complex obs
- TRUNK-3569 When a patient identifier fails regex validation, it should display the pretty formatDescription if available
- TRUNK-3479 Concept Validator should ignore short names
- TRUNK-3465 AddPersonController needs to be refactored to not use instance fields
- TRUNK-3448 Locale with country does not work
- TRUNK-3413 Unable to delete scheduled tasks that refer to classes that are not available
- TRUNK-3077 Regimen Date Formats Change
- TRUNK-2967 Fix Performance tests
- TRUNK-2960 Non-blocking error message is logged after updating concept words task completes
- TRUNK-2894 Change all void references to delete in interface
- TRUNK-2717 Display a meaningful message when a scheduled task with no repeat interval fails to start
- TRUNK-2660 Validate field lengths of domain objects in management pages
- TRUNK-2224 Show appropriate notification message when void reason is empty when voiding a patient
- TRUNK-2107 Program management does not show workflows
- TRUNK-2003 InvalidPropertyException on long patient form when user adds new name or address or identifier
- TRUNK-227 Constraint error when recreating the Concept word index with concept\_names containing accented characters.

## **New Features (after OpenMRS Platform 1.11.5)**

- TRUNK-4786 Add a Platform 2.0 is running page
- TRUNK-4780 Add a static home page to indicate that OpenMRS is running
- TRUNK-4761 Free Text Drug Orders
- TRUNK-4728 Enable batching of inserts and updates in the JDBC driver.
- TRUNK-4727 Adding new birthtime column in person table.
- TRUNK-4717 Rebuild search index when server is running
- TRUNK-4702 OrderService should allow you to save overlapping DrugOrders if the caller acknowledges that they are aware of the overlap
- TRUNK-4701 You should not be allowed to create a discontinue order by concept that ambiguously indicates stopping more than one active order
- TRUNK-4699 OrderService.saveOrder should only apply duplicate/overlap checking to DrugOrders
- TRUNK-4665 Add Russian translation of openmrs-core
- TRUNK-4638 Upgrade Jetty to 9.x
- TRUNK-4636 NameTemplate should provide a format method
- TRUNK-4626 There should be a way to disable validation logic for bulk data import or SHR use cases
- TRUNK-4584 Upgrade to spring 4.x
- TRUNK-4583 Upgrade to java 8
- TRUNK-4578 Ignore tests based on OpenMRS core version and modules
- TRUNK-4572 Provide UI to "Delete Forever" unused Concept Drugs
- TRUNK-4571 Get encounters by creation/modification date [Feature request]
- TRUNK-4537 Add a way to Delete a specific Provider forever
- TRUNK-4486 Display OpenMRS api version during the installation processes
- TRUNK-4485 Use Global Property to Specify how Provider Search behaves

- TRUNK-4474 Have a core global property for a concept representing Unknown
- TRUNK-4453 AuthenticatedUserTestHelper, for writing mock-based unit tests that require an authenticated user, but no other context
- TRUNK-4452 Getting concepts by mapping should be case-insensitive
- TRUNK-4447 Add ci config for sonar
- TRUNK-4445 Support custom DosingTypes
- TRUNK-4440 Allow implementations to control whether drug orders require formulation
- TRUNK-4438 Ability to start all modules in their correct order
- TRUNK-4415 Add sonar properties
- TRUNK-4411 Provider identifiers should not be required to be unique
- TRUNK-4385 Annotated BaseOpenmrs... classes
- TRUNK-4364 Upgrade to Hibernate 4
- TRUNK-4355 Create complex handler for storing and displaying video and audio files
- TRUNK-4240 Create a drop-down list handler for Location Attribute types
- TRUNK-4020 AddressTemplate should let a user specify required fields
- TRUNK-4015 Application data directory should include web app name
- TRUNK-3963 Visit validator should prevent or allow overlapping of visits depending on global property
- TRUNK-3871 Create UserService.saveUser(User user) method
- TRUNK-3629 Rewrite the Manage Program, Workflow, and State admin pages
- TRUNK-3386 Increase the privilege column size
- TRUNK-3372 Rename some of the API-level privileges
- TRUNK-3325 Add UI for managing drug ingredients
- TRUNK-3323 Move drug.route to order entry process
- TRUNK-3064 Create unit test for duplicate messages
- TRUNK-2999 Investigate replacing concept word with full text search
- TRUNK-2843 ORUR01Handler should support multiple providers per encounter
- TRUNK-2280 Refactor maximum length checking in the view layer
- TRUNK-2119 Improve Crash Reporting
- TRUNK-2039 Modify the Regimens tab to work with new order templating system
- TRUNK-2037 Determine the feasibility of transitioning from current Orders to new orders
- TRUNK-367 Create a German messages.properties translation file
- TRUNK-14 Remove RegimenSuggestion class

## Upcoming End of Release Notice

**OpenMRS 1.9 will reach end of life when Platform 2.0.0 is released.**

As of described in [Unsupported Releases \(EOL\)](#), OpenMRS can only support up to three released versions at a time (the current release and then two versions back). With the release of OpenMRS 2.0.0, support will no longer be provided by the core Development Team for OpenMRS 1.9.x and earlier. This announcement also serves as advance notice that support will end for OpenMRS Platform 1.10.x, concurrent with the release of Platform 2.1.0