GE Healthcare

Centricity® EMR 9.8.6

Release Notes

Contents

Who should read these release notes?

This document describes the changes in the release and how to install it.

Before installing the release, read these release notes carefully and ensure that you have a verified backup.

!!! **Important!** The installation process for this release has changed from previous service packs. This release is a full upgrade, allowing you to upgrade directly from EMR v9.5.x, v9.6.x, or 9.8.x. The upgrade process is different depending on your software version and platform.

If you are the System Administrator...

You will install this release and run any additional scripts that are necessary. You must be an experienced network administrator with the following:

- Ability to execute SQL queries
- Familiarity with Oracle files, programs, data structures, and transaction architecture
- Supervisor/administrative privileges on your network file server

If you are the EMR Manager...

You must determine how the changes in this release affect your functionality, setup, and workflows. Contact Centricity Services at 888.436.8491 if you have questions.

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What's new in EMR 9.8.6?

The following items are new in this release:

■ Fixed an issue where some orders were not being generated with unique numbers. SPR 52803

■ Configuration changes applied to handle Out of Memory error from Inquiry module. SPR 58110

■ The Immunization Management form now produces a text translation in the chart note. SPR 58276

■ Fixed an issue where Immunization form does not display or translate preloaded values. SPR 58295

■ Problem search in custom lists and quick search now includes results where the term is contained as a word anywhere in the description as long as it is a word by itself and not a suffix. SPR 59517

■ The Immunization Migration tool now evaluates additional values in determining whether an immunization Was Given. A separate post-processing SQL script is available to clean up Undetermined vaccines if you already migrated data. The script can also be customized to look for values unique to your site. SPR 59613

■ Clicking the Phone Note icon to start a phone note opens one form. SPR 59738

■ After using the Medication Administration form the Medications tab no longer includes duplicates. SPR 59816

■ Fixed an issue where CCDAs generated allow invalid values for ethnicity codes. SPR 60001

■ Corrected a coding error that permitted random values to fill AD, NDC, VIS, and EXP fields if no observation value existed for those HDIDs. While this problem no longer occurs in this version of the tool, there is no fix for incorrect data migrated with an earlier version. SPR 60298

■ Enhanced *Administered Date* calculation. The tool first checks to see if a valid 'AD' value exists. If so, that date is used. If not, it parses the main observation value for a date, and uses that if found. Otherwise, it uses the obsdate of the main observation. SPR 60322

■ Significantly improved performance is expected with a change to the tool design that eliminates the need for the DM_MIGRATION_OBS_MIGRATED table to back up migrated rows from the OBS table. Previously tool performance was degraded and consumed more I/O resources than necessary, especially when running with parallel threads. SPR 60339

■ Common Event Model configuration parameters are now editable in the JMX console. SPR 60397

■ Changes to the Common Event Model default parameters for stability and performance enhancements. SPR 60398

■ Fixed an issue where vaccines for Reason Not Given or Adverse Reactions are not migrating. SPR 60494

■ Registries created in LinkLogic now show on the Registry tab. SPR 60561

- Stability fix. SPR 60570

- Only active medications are displayed in the update medications dialog. Removing a medication no longer causes a duplicate listing. SPR 60588

- Uncoded medications are no longer counted for CPOE measure calculations. SPR 60600

- TOC documents now inherit the confidentiality settings of the parent document. SPR 60614

- The Immunization Migration Wizard now correctly ignores time information in the adverse reaction field. SPR 60621

- Upgrading from a previous version of EMR 9.8.x on a UNIX platform completes successfully, SPR 60636

- The "Copy Oracle DVD" dialog no longer displays if the Oracle contents exist in the staging directory being upgraded. SPR 60651

- All vaccines entered on the Immunization Management form now appear on the text of the chart document. SPR 60657

- The vaccine group RSV-MAb has been added to the Immunization Management form. SPR 60661

- Changed the behavior of the GET_MUActivity_Log data symbol so that printing must always finish before the log is retrieved. SPR 60664

- The Data Migration tool now migrates "pneuped (Prevnar unspecified)" to CVX-152. SPR 60665

- On the Immunization Management form, administering Proquad now indicates that Varicella, Measles, Mumps, and Rubella have been administered. SPR 60669

- All vaccines entered on the Immunization Management form now appear on the document view. SPR 60678

- Vaccine groups on the Immunization Management form now appear on the text translation. SPR 60679

- The Immunization Management history view now lists Measles, Mumps, and Rubella individually when an MMR is given. SPR 60680

- Growth chart data point tooltip popup now shows correctly in Internet Explorer 10. SPR 60711

- Fixed an issue where Immunization Migration Wizard generates undetermined vaccines. SPR 60726

- Fixed an issue where clicking Rx Refill would hang and crash the application. SPR 60843

- CVS documents now inherit the confidentiality settings of the parent document. SPR 60849

- Redesigned CVS layout so that it is easier to read. The header (patient information) is clearly separated from the rest of the CVS sections and content. SPR 60966, SPR 60967

- CVS preview now matches CVS printout. SPR 60969

Important Product Notifications

> **!!!** Administrators and Risk Managers should review these Important Product Notifications for details about critical product functionality fixes released in this version.

immun_getlist() is not showing immunization for Synagis CVX code 93

The MEL symbol immun_getlist() was not showing immunizations for CVX code 93 because the vaccine group was not entered in the Imm_VaccineGroupName table.

Resolution: The vaccine group RSV-MAb has been added to the Immunization Management form. SPR 60661

Immunization migration missing factory obs to be migrated

Some immunization obs terms were not included in initial migration.

Resolution: More vaccines from the factory obs kit are now included in the geimmunizationsmap.csv spreadsheet, including all vaccines explicitly used by the Immunization Management form. However, some vaccines are not in the spreadsheet and, if you use them, are not migrated. These vaccines can be added to the custom immunizationmap.csv file. Re-running the tool will add the missing vaccines. A list of obs terms from the factory kit that are not migrated is available upon request. SPR 60730

Incorrect HDIDs in geimmunizations spreadsheet

HDIDs for many vaccine attributes were missing or incorrect in the original spreadsheet.

Resolution: All HDIDs in the geimmunizationsmap.csv spreadsheet now correspond to observation terms from the vaccine group (1246) in the factory observations kit. All observation values are collected in reference to a migrated vaccine, including attributes such as Reason Not Given, Adverse Reaction, Administered Date, and so on. Previously, correct HDIDs for many vaccine attributes were missing in the original spreadsheet. If you already migrated production data, re-running the tool will pick up missed Adverse Reaction and Reason Not Given attributes, but other attributes are not recovered. SPR 59659, 60742

Known issues

Startit.sql file is overwritten during upgrade

When you upgrade EMR, the existing *startit.sql* file is overwritten. As a result, the sys and ml passwords need to be added back to the file. Otherwise, they will have to be entered each time the database is started.

Network training database is replaced during upgrade

When you upgrade EMR, the existing network training database is overwritten. If you have to restore any setup data, export the data as a clinical kit then import it into the training database once you complete the upgrade. See "Prepare and export the Network Training database" in the upgrade guide for your platform. SPR 60645

Customized CCC forms are overwritten during upgrade

When you upgrade EMR, the clinical content folders are overwritten. If you have customized content, you should backup your data and redeploy it after the update. SPR 60652

EMR Client may not upgrade automatically

If the EMR Client does not upgrade automatically:

1   Add a user account in the Administrator's group for the domain or local machine.

2   Right-click the EMR application and select "Run as administrator".

Issues with the New Problem window under Centricity Framework and Internet Explorer 10

Under Internet Explorer 10 and Centricity Framework, the New Problem window disappears when searching for a problem or flickers.

Workaround: There are three possible workarounds:

- Minimize the Internet Explorer window, then restore it.
- Switch to another application and then back to Internet Explorer.
- Use a different version of Internet Explorer.

SPR 60319, 60320

Forms do not display correctly when opened in the Centricity Framework.

Forms will not display correctly if the Centricity EMR install location (default location is C:\Program Files (x86)\Centricity EMR 9.8) is not added to the PATH environment variable. To modify the PATH environment variable:

1   Open Windows Explorer.

2   Right-click **Computer** and select **Properties**.

3   Click **Advanced System Settings**.

4   Click **Environment Variables...**.

5   Under **System variables**, select **Path**, and then click **Edit**.

6   Add the EMR installation location to the end, and then click **OK**.

SPR 60175

The JBoss configuration files are not replaced when upgrading from one service pack to another

Workaround: Uninstall the **JBoss Application Server** manually via the Windows Programs and Features control panel. SPR 59058

PDF reader must be closed prior to opening a new patient chart

If a PDF is already open, users are unable to close a PDF in a patient chart when switching to another patient. SPR 21375

Upgrade considerations

Knowledgebase version

Before you upgrade from Centricity EMR v9.8.x, be sure that you have the August Knowledgebase installed.

If you have a version of Centricity EMR prior to v9.8, you should wait until the September Knowledgebase is available before upgrading to v9.8.6.

Supported upgrade paths

Direct upgrade path supported from v9.5, v 9.6, or v9.8. If you are on an earlier version, you must upgrade to one of these versions first prior to upgrading to Centricity EMR 9.8.6.

Compatible client versions include

- **Remote Desktop Services/Citrix XenApp server**: Centricity EMR 9.8.6 and Centricity Practice Solution 12 client applications can be installed on the same server.

- **Standalone client workstation**: Centricity EMR 9.8.6 and Centricity Practice Solution 12 clients can be installed on the same workstation.

> **!!!** Install the Centricity EMR 9.8 client FIRST, then install the Centricity Practice Solution 12 (PM-only) client.

Supported platforms/software

See *Configuring Environments for Centricity Electronic Medical Record* for recommended software and hardware configurations to support Centricity EMR in a variety of computing environments.

Summary requirements include:

- **Database and general server operating system**: Microsoft® Windows Server 2012 SP1 Enterprise or Standard or Windows Server 2008 R2 64-bit SP1

- **Application Server (JBoss)**: JBoss v5.1 with 64-bit JVM

- **Data Exchange Server**: Microsoft Windows Server 2012 64-bit or Microsoft Windows Server 2008 R2 64-bit and supported Windows Client platforms for Data Transfer Station and Qvera Interface Engine (QIE).

- **Hyper-V**: Microsoft Hyper-V Server 2012 or Windows Server 2008 R2 64-bit

- **VMWare**: VMWare ESX 5.1, VMWare VMKernel (Linux)

- **Browser and Mobile Access**: Internet Explorer (IE) 9 or 10

- **Browser and Mobile Access device operating system**: iPhone iOS 6.x

- **Client operating systems**: Microsoft Windows 8 Professional (32-bit and 64-bit) or Microsoft Windows 7 Professional (32-bit and 64-bit SP1),

  > **!!!**   Microsoft Windows XP and Vista are no longer supported for the client. Internet Explorer v9 requires Microsoft Windows v7 or later.

- **Citrix® XenApp™ server**: XenApp 6.5 64-bit

- **Citrix XenApp client**: Online Client 12.1.44

- **Microsoft® Windows Remote Desktop Services (OS)**: Windows Server 2012 with RDP 8.0 or Windows 2008 Server R2 with RDP 7.1 or higher

- **Web browser**: Internet Explorer (IE) 9 or 10

- **Reports**: Crystal® Reports Professional XI R2 by SAP BusinessObjects

Support for interface engines

With this release, Qvera Interface Engine (QIE) is the preferred transport mechanism for Meaningful Use 2014 reporting. Qvera and GE offer and provide direct support for interfaces for all Meaningful Use messaging/reporting. Qvera and relevant interfaces are available directly from GE. Contact your sales representative for additional information.

If you are upgrading to this release and using an unsupported interface engine, contact Centricity Services for information about its compatibility with this release and for help transitioning your existing interfaces to Qvera.

Install the release

Follow the appropriate instructions for installing the application based on your current version:

- **Upgrade from v9.5.x or v9.6.x**: Detailed instructions for upgrading to Centricity EMR 9.8.6 from supported earlier versions are provided for your platform in your Centricity Documentation Library.

  - *Upgrading to Centricity Electronic Medical Record on Microsoft Windows Servers*
  - *Upgrading to Centricity Electronic Medical Record on UNIX Servers*

  > Download the complete documentation library from engage.gehealthcare.com/community/en/emr/documentation.
  >
  > Unzip to a folder on your system. When you open a document from the Centricity Document Library, you can click links to other guides to open them. Links do not work if you copy a PDF to a location outside the library folder.

- **Upgrade from v9.8.x**: If you are upgrading from another version of EMR 9.8.x, you will follow an abbreviated version of the full upgrade process. This process is detailed in the following guides, provided with this package:

  - *Upgrading Centricity EMR Service Packs on Microsoft Windows Servers*
  - *Upgrading Centricity EMR Service Packs on UNIX Servers*

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