



Informatica® Data Archive
6.4.4

Application Retirement for Healthcare Accelerator Reference

© Copyright Informatica LLC 2003, 2018

This software and documentation contain proprietary information of Informatica LLC and are provided under a license agreement containing restrictions on use and disclosure and are also protected by copyright law. Reverse engineering of the software is prohibited. No part of this document may be reproduced or transmitted in any form, by any means (electronic, photocopying, recording or otherwise) without prior consent of Informatica LLC. This Software may be protected by U.S. and/or international Patents and other Patents Pending.

Use, duplication, or disclosure of the Software by the U.S. Government is subject to the restrictions set forth in the applicable software license agreement and as provided in DFARS 227.7202-1(a) and 227.7702-3(a) (1995), DFARS 252.227-7013(1)(ii) (OCT 1988), FAR 12.212(a) (1995), FAR 52.227-19, or FAR 52.227-14 (ALT III), as applicable.

The information in this product or documentation is subject to change without notice. If you find any problems in this product or documentation, please report them to us in writing.

Informatica, Informatica Platform, Informatica Data Services, PowerCenter, PowerCenterRT, PowerCenter Connect, PowerCenter Data Analyzer, PowerExchange, PowerMart, Metadata Manager, Informatica Data Quality, Informatica Data Explorer, Informatica B2B Data Transformation, Informatica B2B Data Exchange Informatica On Demand, Informatica Identity Resolution, Informatica Application Information Lifecycle Management, Informatica Complex Event Processing, Ultra Messaging, Informatica Master Data Management, and Live Data Map are trademarks or registered trademarks of Informatica LLC in the United States and in jurisdictions throughout the world. All other company and product names may be trade names or trademarks of their respective owners.

Portions of this software and/or documentation are subject to copyright held by third parties, including without limitation: Copyright DataDirect Technologies. All rights reserved. Copyright © Sun Microsystems. All rights reserved. Copyright © RSA Security Inc. All Rights Reserved. Copyright © Ordinal Technology Corp. All rights reserved. Copyright © Aandacht c.v. All rights reserved. Copyright Genivia, Inc. All rights reserved. Copyright Isomorphic Software. All rights reserved. Copyright © Meta Integration Technology, Inc. All rights reserved. Copyright © Intalio. All rights reserved. Copyright © Oracle. All rights reserved. Copyright © Adobe Systems Incorporated. All rights reserved. Copyright © DataArt, Inc. All rights reserved. Copyright © ComponentSource. All rights reserved. Copyright © Microsoft Corporation. All rights reserved. Copyright © Rogue Wave Software, Inc. All rights reserved. Copyright © Teradata Corporation. All rights reserved. Copyright © Yahoo! Inc. All rights reserved. Copyright © Glyph & Cog, LLC. All rights reserved. Copyright © Thinkmap, Inc. All rights reserved. Copyright © Clearpace Software Limited. All rights reserved. Copyright © Information Builders, Inc. All rights reserved. Copyright © OSS Nokalva, Inc. All rights reserved. Copyright Edifecs, Inc. All rights reserved. Copyright Cleo Communications, Inc. All rights reserved. Copyright © International Organization for Standardization 1986. All rights reserved. Copyright © ej-technologies GmbH. All rights reserved. Copyright © Jaspersoft Corporation. All rights reserved. Copyright © International Business Machines Corporation. All rights reserved. Copyright © yWorks GmbH. All rights reserved. Copyright © Lucent Technologies. All rights reserved. Copyright © University of Toronto. All rights reserved. Copyright © Daniel Veillard. All rights reserved. Copyright © Unicode, Inc. Copyright IBM Corp. All rights reserved. Copyright © MicroQuill Software Publishing, Inc. All rights reserved. Copyright © PassMark Software Pty Ltd. All rights reserved. Copyright © LogiXML, Inc. All rights reserved. Copyright © 2003-2010 Lorenzi Davide, All rights reserved. Copyright © Red Hat, Inc. All rights reserved. Copyright © The Board of Trustees of the Leland Stanford Junior University. All rights reserved. Copyright © EMC Corporation. All rights reserved. Copyright © Flexera Software. All rights reserved. Copyright © Jinfonet Software. All rights reserved. Copyright © Apple Inc. All rights reserved. Copyright © Telerik Inc. All rights reserved. Copyright © BEA Systems. All rights reserved. Copyright © PDFlib GmbH. All rights reserved. Copyright © Orientation in Objects GmbH. All rights reserved. Copyright © Tanuki Software, Ltd. All rights reserved. Copyright © Ricebridge. All rights reserved. Copyright © Sencha, Inc. All rights reserved. Copyright © Scalable Systems, Inc. All rights reserved. Copyright © jqWidgets. All rights reserved. Copyright © Tableau Software, Inc. All rights reserved. Copyright © MaxMind, Inc. All Rights Reserved. Copyright © TMate Software s.r.o. All rights reserved. Copyright © MapR Technologies Inc. All rights reserved. Copyright © Amazon Corporate LLC. All rights reserved. Copyright © Highsoft. All rights reserved. Copyright © Python Software Foundation. All rights reserved. Copyright © BeOpen.com. All rights reserved. Copyright © CNRI. All rights reserved.

This product includes software developed by the Apache Software Foundation (<http://www.apache.org/>), and/or other software which is licensed under various versions of the Apache License (the "License"). You may obtain a copy of these Licenses at <http://www.apache.org/licenses/>. Unless required by applicable law or agreed to in writing, software distributed under these Licenses is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the Licenses for the specific language governing permissions and limitations under the Licenses.

This product includes software which was developed by Mozilla (<http://www.mozilla.org/>), software copyright The JBoss Group, LLC, all rights reserved; software copyright © 1999-2006 by Bruno Lowagie and Paulo Soares and other software which is licensed under various versions of the GNU Lesser General Public License Agreement, which may be found at <http://www.gnu.org/licenses/lgpl.html>. The materials are provided free of charge by Informatica, "as-is", without warranty of any kind, either express or implied, including but not limited to the implied warranties of merchantability and fitness for a particular purpose.

The product includes ACE(TM) and TAO(TM) software copyrighted by Douglas C. Schmidt and his research group at Washington University, University of California, Irvine, and Vanderbilt University, Copyright (©) 1993-2006, all rights reserved.

This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (copyright The OpenSSL Project. All Rights Reserved) and redistribution of this software is subject to terms available at <http://www.openssl.org> and <http://www.openssl.org/source/license.html>.

This product includes Curl software which is Copyright 1996-2013, Daniel Stenberg, <daniel@haxx.se>. All Rights Reserved. Permissions and limitations regarding this software are subject to terms available at <http://curl.haxx.se/docs/copyright.html>. Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

The product includes software copyright 2001-2005 (©) MetaStuff, Ltd. All Rights Reserved. Permissions and limitations regarding this software are subject to terms available at <http://www.dom4j.org/license.html>.

The product includes software copyright © 2004-2007, The Dojo Foundation. All Rights Reserved. Permissions and limitations regarding this software are subject to terms available at <http://dojotoolkit.org/license>.

This product includes ICU software which is copyright International Business Machines Corporation and others. All rights reserved. Permissions and limitations regarding this software are subject to terms available at <http://source.icu-project.org/repos/icu/icu/trunk/license.html>.

This product includes software copyright © 1996-2006 Per Bothner. All rights reserved. Your right to use such materials is set forth in the license which may be found at <http://www.gnu.org/software/kawa/Software-License.html>.

This product includes OSSP UUID software which is Copyright © 2002 Ralf S. Engelschall, Copyright © 2002 The OSSP Project Copyright © 2002 Cable & Wireless Deutschland. Permissions and limitations regarding this software are subject to terms available at <http://www.opensource.org/licenses/mit-license.php>.

This product includes software developed by Boost (<http://www.boost.org/>) or under the Boost software license. Permissions and limitations regarding this software are subject to terms available at http://www.boost.org/LICENSE_1_0.txt.

This product includes software copyright © 1997-2007 University of Cambridge. Permissions and limitations regarding this software are subject to terms available at <http://www.pcre.org/license.txt>.

This product includes software copyright © 2007 The Eclipse Foundation. All Rights Reserved. Permissions and limitations regarding this software are subject to terms available at <http://www.eclipse.org/org/documents/epl-v10.php> and at <http://www.eclipse.org/org/documents/edl-v10.php>.

This product includes software licensed under the terms at <http://www.tcl.tk/software/tcltk/license.html>, <http://www.bosrup.com/web/overlib/?License>, <http://www.stlport.org/doc/license.html>, <http://asm.ow2.org/license.html>, <http://www.cryptix.org/LICENSE.TXT>, <http://hsqldb.org/web/hsqldbLicense.html>, <http://httpunit.sourceforge.net/doc/license.html>, <http://jung.sourceforge.net/license.txt>, http://www.gzip.org/zlib/zlib_license.html, <http://www.openldap.org/software/release/license.html>, <http://www.libssh2.org>, <http://slf4j.org/license.html>, <http://www.sente.ch/software/OpenSourceLicense.html>, <http://fusesource.com/downloads/license-agreements/fuse-message-broker-v-5-3-license-agreement>, <http://antlr.org/license.html>, <http://aopalliance.sourceforge.net/>, <http://www.bouncycastle.org/licence.html>, <http://www.jgraph.com/jgraphdownload.html>, <http://www.jcraft.com/jsch/LICENSE.txt>, http://jotm.objectweb.org/bsd_license.html, <http://www.w3.org/Consortium/Legal/2002/copyright-software-20021231>, <http://www.slf4j.org/license.html>, <http://nanoxml.sourceforge.net/orig/copyright.html>, <http://www.json.org/license.html>, <http://forge.ow2.org/projects/javaservice/>, <http://www.postgresql.org/about/licence.html>, <http://www.sqlite.org/copyright.html>, <http://www.tcl.tk/software/tcltk/license.html>, <http://www.jaxen.org/faq.html>, <http://www.jdom.org/docs/faq.html>, <http://www.slf4j.org/license.html>, <http://www.iodbc.org/dataspace/iodbc/wiki/IODBC/License>, <http://www.keplerproject.org/md5/license.html>, <http://www.toedter.com/en/jcalendar/license.html>, <http://www.edankert.com/bounce/index.html>, <http://www.net-snmp.org/about/license.html>, <http://www.openmdx.org/#FAQ>, http://www.php.net/license/3_01.txt, <http://srp.stanford.edu/license.txt>, <http://www.schneider.com/blowfish.html>, <http://www.jmock.org/license.html>, <http://xsom.java.net>, <http://benalman.com/about/license/>, <https://github.com/CreateJS/EaselJS/blob/master/src/easeljs/display/Bitmap.js>, <http://www.h2database.com/html/license.html#summary>, <http://jsoncpp.sourceforge.net/LICENSE>, <http://jdbc.postgresql.org/license.html>, <http://protobuf.googlecode.com/svn/trunk/src/google/protobuf/descriptor.proto>, <https://github.com/rantav/hector/blob/master/LICENSE>, <http://web.mit.edu/Kerberos/krb5-current/doc/mitK5license.html>, <http://jibx.sourceforge.net/jibx-license.html>, <https://github.com/lyokato/libgeohash/blob/master/LICENSE>, <https://github.com/hjiang/jsonxx/blob/master/LICENSE>, <https://code.google.com/p/lz4/>, <https://github.com/jedisct1/libsodium/blob/master/LICENSE>, <http://one-jar.sourceforge.net/index.php?page=documents&file=license>, <https://github.com/EsotericSoftware/kryo/blob/master/license.txt>, <http://www.scala-lang.org/license.html>, <https://github.com/tinkerpop/blueprints/blob/master/LICENSE.txt>, <http://gee.cs.oswego.edu/dl/classes/EDU/oswego/cs/dl/util/concurrent/intro.html>, <https://aws.amazon.com/ssl/>, <https://github.com/twbs/bootstrap/blob/master/LICENSE>, <https://sourceforge.net/p/xmlunit/code/HEAD/tree/trunk/LICENSE.txt>, <https://github.com/documentcloud/underscore-contrib/blob/master/LICENSE>, and <https://github.com/apache/hbase/blob/master/LICENSE.txt>.

This product includes software licensed under the Academic Free License (<http://www.opensource.org/licenses/afl-3.0.php>), the Common Development and Distribution License (<http://www.opensource.org/licenses/cddl1.php>), the Common Public License (<http://www.opensource.org/licenses/cpl1.0.php>), the Sun Binary Code License Agreement Supplemental License Terms, the BSD License (<http://www.opensource.org/licenses/bsd-license.php>), the new BSD License (<http://opensource.org/licenses/BSD-3-Clause>), the MIT License (<http://www.opensource.org/licenses/mit-license.php>), the Artistic License (<http://www.opensource.org/licenses/artistic-license-1.0>) and the Initial Developer's Public License Version 1.0 (<http://www.firebirdsql.org/en/initial-developer-s-public-license-version-1-0/>).

This product includes software copyright © 2003-2006 Joe Walnes, 2006-2007 XStream Committers. All rights reserved. Permissions and limitations regarding this software are subject to terms available at <http://xstream.codehaus.org/license.html>. This product includes software developed by the Indiana University Extreme! Lab. For further information please visit <http://www.extreme.indiana.edu/>.

This product includes software Copyright (c) 2013 Frank Balluffi and Markus Moeller. All rights reserved. Permissions and limitations regarding this software are subject to terms of the MIT license.

See patents at <https://www.informatica.com/legal/patents.html>.

DISCLAIMER: Informatica LLC provides this documentation "as is" without warranty of any kind, either express or implied, including, but not limited to, the implied warranties of noninfringement, merchantability, or use for a particular purpose. Informatica LLC does not warrant that this software or documentation is error free. The information provided in this software or documentation may include technical inaccuracies or typographical errors. The information in this software and documentation is subject to change at any time without notice.

NOTICES

This Informatica product (the "Software") includes certain drivers (the "DataDirect Drivers") from DataDirect Technologies, an operating company of Progress Software Corporation ("DataDirect") which are subject to the following terms and conditions:

1. THE DATADIRECT DRIVERS ARE PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT.
2. IN NO EVENT WILL DATADIRECT OR ITS THIRD PARTY SUPPLIERS BE LIABLE TO THE END-USER CUSTOMER FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, CONSEQUENTIAL OR OTHER DAMAGES ARISING OUT OF THE USE OF THE ODBC DRIVERS, WHETHER OR NOT INFORMED OF THE POSSIBILITIES OF DAMAGES IN ADVANCE. THESE LIMITATIONS APPLY TO ALL CAUSES OF ACTION, INCLUDING, WITHOUT LIMITATION, BREACH OF CONTRACT, BREACH OF WARRANTY, NEGLIGENCE, STRICT LIABILITY, MISREPRESENTATION AND OTHER TORTS.

Publication Date: 2018-07-20

Table of Contents

Preface	6
Informatica Resources.	6
Informatica Network.	6
Informatica Knowledge Base.	6
Informatica Documentation.	6
Informatica Product Availability Matrixes.	7
Informatica Velocity.	7
Informatica Marketplace.	7
Informatica Global Customer Support.	7
 Chapter 1: Introduction to the Application Retirement for Healthcare Accelerator.....	8
Introduction to the Application Retirement for Healthcare Accelerator Overview.	8
Materialized Views and View Definitions.	8
Patient Archive.	9
Application Retirement for Healthcare Accelerator Process.	9
 Chapter 2: Materialized Views and View Definitions.....	10
Materialized Views and View Definitions Overview.	10
Materialized Views and View Definitions Process.	11
Materialized View Definitions.	12
Materialized Views.	12
Define Materialized Views through the Enterprise Data Manager.	12
Reviewing Materialized View Definitions.	13
Changing Materialized View Definitions.	13
Running the Create Materialized Views Standalone Job.	13
Define Materialized Views through the Healthcare Metadata Portal.	14
Prerequisites.	14
Healthcare Views and Reports User Interface.	14
Defining a Materialized View.	15
Editing a Materialized View.	16
Refresh Materialized Views.	17
Running the Refresh Materialized Views Standalone Job.	18
 Chapter 3: Accelerator Configuration.....	19
Accelerator Configuration Overview.	19
Patient Archive Reports Configuration.	19
System-Defined Roles.	20
Data Vault Access Roles.	20
Accounts Receivable Burndown Configuration.	21

Configuration Process.	21
Configure Patient Archive Reports.	21
Step 1. Creating a Patient Archives User.	22
Step 2. Creating a Data Vault Access Role.	22
Step 3. Assigning the Data Vault Access Role to a Reports Entity.	23
Step 4. Assigning Roles to a User.	23
Configure Accounts Receivable Burndown.	24
Assigning the Accounts Receivable Reports to the Accounts Receivable Burndown Entity.	24
CSV Data File Formatting for Accounts Receivable Burndown.	24
Copying the Accounts Receivable Burndown Entity.	26
Release of Information Configuration.	26
Prerequisites.	26
Release of Information Process.	26
Step 1. Identify the Columns for the Index Data File.	27
Step 2. Generate the Release of Information Index Data.	27
Step 3. Create the Metadata File.	28
Step 4. Run the Release of Information Index Record Standalone Job.	29
Step 5. Assign the Healthcare Information Management User Role.	29
Known Limitations.	30
Chapter 4: Accounts Receivable and Claim Reports.	31
Accounts Receivable and Claim Reports Overview.	31
Accounts Receivable Report Types.	32
Running Accounts Receivable Reports.	33
Payment Processing.	34
Adding a Patient-Submitted Payment to a Patient Account.	34
Adding a Payment Submitted by an Insurance Provider or Plan to a Patient Account.	36
Adding Multiple Payments to Patient Accounts.	39
Claim Reports.	39
Running Claim Reports.	40
Chapter 5: Patient Information Reports.	41
Patient Information Reports Overview.	41
Patient Information Report Types.	41
Running a Patient Information Report.	43
Release of Information Form.	45
Submitting the Release of Information Form.	46

Preface

The *Informatica Application Retirement for Healthcare Accelerator Reference* is written for system administrators who are responsible for configuring and setting up the application retirement for healthcare accelerator. This guide is also written for users who run patient reports through the patient archive. This guide assumes you have knowledge of the healthcare applications you have retired, Data Vault, and Data Archive.

Informatica Resources

Informatica Network

Informatica Network hosts Informatica Global Customer Support, the Informatica Knowledge Base, and other product resources. To access Informatica Network, visit <https://network.informatica.com>.

As a member, you can:

- Access all of your Informatica resources in one place.
- Search the Knowledge Base for product resources, including documentation, FAQs, and best practices.
- View product availability information.
- Review your support cases.
- Find your local Informatica User Group Network and collaborate with your peers.

Informatica Knowledge Base

Use the Informatica Knowledge Base to search Informatica Network for product resources such as documentation, how-to articles, best practices, and PAMs.

To access the Knowledge Base, visit <https://kb.informatica.com>. If you have questions, comments, or ideas about the Knowledge Base, contact the Informatica Knowledge Base team at KB_Feedback@informatica.com.

Informatica Documentation

To get the latest documentation for your product, browse the Informatica Knowledge Base at https://kb.informatica.com/_layouts/ProductDocumentation/Page/ProductDocumentSearch.aspx.

If you have questions, comments, or ideas about this documentation, contact the Informatica Documentation team through email at infa_documentation@informatica.com.

Informatica Product Availability Matrixes

Product Availability Matrixes (PAMs) indicate the versions of operating systems, databases, and other types of data sources and targets that a product release supports. If you are an Informatica Network member, you can access PAMs at

<https://network.informatica.com/community/informatica-network/product-availability-matrices>.

Informatica Velocity

Informatica Velocity is a collection of tips and best practices developed by Informatica Professional Services. Developed from the real-world experience of hundreds of data management projects, Informatica Velocity represents the collective knowledge of our consultants who have worked with organizations from around the world to plan, develop, deploy, and maintain successful data management solutions.

If you are an Informatica Network member, you can access Informatica Velocity resources at <http://velocity.informatica.com>.

If you have questions, comments, or ideas about Informatica Velocity, contact Informatica Professional Services at ips@informatica.com.

Informatica Marketplace

The Informatica Marketplace is a forum where you can find solutions that augment, extend, or enhance your Informatica implementations. By leveraging any of the hundreds of solutions from Informatica developers and partners, you can improve your productivity and speed up time to implementation on your projects. You can access Informatica Marketplace at <https://marketplace.informatica.com>.

Informatica Global Customer Support

You can contact a Global Support Center by telephone or through Online Support on Informatica Network.

To find your local Informatica Global Customer Support telephone number, visit the Informatica website at the following link:

<http://www.informatica.com/us/services-and-training/support-services/global-support-centers>.

If you are an Informatica Network member, you can use Online Support at <http://network.informatica.com>.

CHAPTER 1

Introduction to the Application Retirement for Healthcare Accelerator

This chapter includes the following topics:

- [Introduction to the Application Retirement for Healthcare Accelerator Overview, 8](#)
- [Materialized Views and View Definitions, 8](#)
- [Patient Archive, 9](#)
- [Application Retirement for Healthcare Accelerator Process, 9](#)

Introduction to the Application Retirement for Healthcare Accelerator Overview

After an organization retires a healthcare application to the Data Vault, they can use the Application Retirement for Healthcare accelerator to retain access to the application data. Data Archive users can run reports on the retired data through the Patient Archive in the Data Archive user interface. Users can also add a payment to a patient account through the Patient Archive.

The accelerator installs metadata for patient information reports that return information such as test results, allergies, physician notes, lab results, and pharmaceutical orders. Healthcare professionals can search by patient name and other criteria to view patient information reports.

The accelerator also installs metadata for claim reports and accounts receivable reports. A patient or an insurance provider might submit a payment after the patient account data has been retired to the Data Vault. In this case, employees who handle billing can add the payment to the patient account. After they add the payment to the patient account, they can run accurate accounts receivable reports through the Patient Archive.

Materialized Views and View Definitions

Before a Data Archive user can run a patient archive report, a Data Archive administrator or Informatica implementation consultant must create materialized views in the Data Vault. When a Data Archive user runs a

patient archive report, the Data Visualization server queries the materialized views in the Data Vault to return the report information.

To create materialized views, map the retired application tables to the materialized view definitions in the Enterprise Data Manager. Then run the create materialized views standalone job to create the views in the Data Vault.

Patient Archive

Data Archive users can run Patient Archive reports or add a payment to a patient account through the Patient Archives in the Data Archive user interface.

Data Archive users can access the Patient Archives through the Data Visualization menu in Data Archive. Users can run multiple patient information reports, in addition to claim reports and accounts receivable reports, in the Patient Archives. Users can also add a payment to a patient account with the payment functions within the Patient Archives.

Application Retirement for Healthcare Accelerator Process

To use the Application Retirement for Healthcare accelerator, a Data Archive administrator must perform the following tasks:

1. Perform the prerequisite tasks for installation and install the accelerator. For more information about accelerator installation, see the *Informatica Data Archive Installation Guide*.
2. Retire the healthcare application. When you retire an application, you import metadata from the source database, create retirement entities, and create and run the retirement project. For more information about application retirement, see the *Retiring an Application to Data Vault With On-Premise Data Archive H2L*.
3. Review and if required, change the materialized view definitions that the accelerator installer imports into the Enterprise Data Manager.
4. To create the materialized views in the Data Vault, run the create materialized views standalone job in the Data Archive user interface.
5. Create a Patient Archives user. Alternatively, select an existing Data Archive user or users that you want to give Patient Archive access to.
6. Create a Data Vault access role for the Patient Archives.
7. Assign the access role to the entity or entities that contain the views used to create Patient Archive reports.
8. Assign the access role and the required system-defined roles to the Patient Archives user or users.
9. Assign the Accounts Receivable Burndown entity to the accounts receivable reports.

After an administrator has completed configuration, Data Archive users can access the Patient Archives to run reports or add a payment to a patient account.

CHAPTER 2

Materialized Views and View Definitions

This chapter includes the following topics:

- [Materialized Views and View Definitions Overview, 10](#)
- [Materialized Views and View Definitions Process, 11](#)
- [Materialized View Definitions, 12](#)
- [Materialized Views, 12](#)
- [Define Materialized Views through the Enterprise Data Manager, 12](#)
- [Define Materialized Views through the Healthcare Metadata Portal, 14](#)
- [Refresh Materialized Views, 17](#)

Materialized Views and View Definitions Overview

The Patient Archive queries materialized views in the Data Vault to return information for Patient Archive reports. Before a Data Archive user can run Patient Archive reports, you must create materialized views that map to the retired application tables in the Data Vault. If a user updates a patient account to add a payment through the Patient Archives, you must also refresh the materialized views to run accurate accounts receivable reports.

Materialized views are database objects in the Data Vault that contain the results of an SQL query. When a Data Archive user runs a Patient Archive report, the Data Visualization server queries the materialized view to return the report information. Because the Data Visualization server queries the materialized view and not the underlying table in the Data Vault, the server returns report information in real-time.

Materialized views are defined by SQL statements called view definitions. When you install the accelerator, the installer imports the view definitions into the Enterprise Data Manager where you can view and change the definitions. You can also view and edit the materialized view definitions in Data Archive. Each view definition corresponds to multiple application tables in the Data Vault.

Before a Data Archive user can run Patient Archive reports, you can review the view definitions in the Enterprise Data Manager. Change the view definitions to correspond to the retired tables in the Data Vault. After you have made any required changes to the view definitions, run the create materialized views standalone job in Data Archive. The create materialized views standalone job creates the materialized views in the Data Vault.

Alternatively, you can view and edit the materialized view definitions directly from the **Data Visualization > Healthcare Metadata** menu in Data Archive. When you work with the materialized views in Data Archive, you

can edit and validate the views without opening the Enterprise Data Manager, and you can create the views in Data Vault without running the create materialized views standalone job.

If a Data Archive user adds a payment to a patient account through the Patient Archives, you must refresh the materialized views before users can run accurate accounts receivable reports. To refresh the materialized views, run the refresh materialized views standalone job in Data Archive.

Materialized Views and View Definitions Process

Before users access the Patient Archive to run reports, review the materialized view definitions in either the Enterprise Data Manager or in Data Archive. If required, change the view definitions to match the retired tables. If you have edited the view definitions in the Enterprise Data Manager, run the create materialized views standalone job to create and validate the materialized views.

To define materialized views through the Enterprise Data Manager, perform the following tasks:

1. In the Enterprise Data Manager, review the view definitions imported by the accelerator installer.
2. Change the view definitions to match the retired application tables in the Data Vault.
3. In the Data Archive user interface, run the create materialized views standalone job.
4. If a user adds a payment to a patient account, run the refresh materialized views job to refresh the views. If you do not refresh the materialized views, users cannot run accurate accounts receivable reports.

Alternatively, you can view, edit, and validate the materialized view definitions directly from the Data Archive user interface. To access the materialized views in the Data Archive, you must login as a user with the healthcare metadata administrator role. The healthcare metadata administrator role is not granted to any user by default, including AMADMIN. The role must be assigned by an administrator.

Before you can access the Healthcare Metadata portal in Data Archive to edit or validate the materialized views, you must first create at least one materialized view through the Enterprise Data Manager and run the create materialized views standalone job. After you create at least one materialized view by running the standalone job, you can select **Healthcare Metadata** under the **Data Visualization** menu to access the views.

To define materialized views through Data Archive, perform the following tasks:

1. Assign the healthcare metadata administrator role to the user who wants to access the materialized views in Data Archive.
2. Create at least one materialized view manually in the Enterprise Data Manager, using the process outlined above. The Healthcare Metadata portal will not work unless you create at least one of the views using the create materialized view standalone job for a given healthcare archive folder.
3. Launch the Patient Archives and select the retired application folder that contains the tables that you want to create views on. When you select the folder for the first time, Data Archive copies the seed reports to the appropriate application folder.
4. In the Data Archive user interface, click **Data Visualization > Healthcare Metadata**. You can then view and edit the views for each healthcare report. You do not have to run the create materialized view standalone job to create and validate the views.

The **Healthcare Views and Reports** interface lists only healthcare applications that are active in the Patient Archive.

Materialized View Definitions

The materialized view definitions map to the retired tables in the Data Vault. Before you create the materialized views, you might need to change the view definitions to match the tables.

The materialized views are defined by SQL statements called view definitions. The accelerator installer imports the predefined view definitions into the Enterprise Data Manager.

The view definitions are designed to map to common healthcare application tables. Each view definition joins multiple retired tables.

If the view definitions do not accurately map to the retired tables, the view might not be valid. Incorrectly mapped views might also cause inaccurate information to appear in the Patient Archive reports. To ensure that the views are valid, you might need to change the view definitions to map to the retired tables. For example, you might need to change the name of a table or a column in a view definition to match the retired table. You can also add or delete columns in a view definition. If you add or delete a column in a view definition, you must also modify the corresponding report with Informatica Data Visualization Designer. For more information on Data Visualization Designer, see the *Informatica Data Visualization Designer User Guide*. If you change any column alias names in the view definition, the view is no longer valid.

Changing or creating a view definition is a manual process that requires functional knowledge of the retired tables. If you are unsure whether or not you need to change view definitions, contact an Informatica implementation consultant.

Materialized Views

The Data Visualization server queries materialized views in the Data Vault to return information for Patient Archive reports. To create the views, run the create materialized views standalone job.

Materialized views are database objects that contain the results of an SQL query. When a user runs a Patient Archive report, the Data Visualization server queries the materialized views and not the underlying tables.

The underlying SQL query in the report joins multiple materialized views. Because the Data Visualization server queries the views and not the tables in the Data Vault, the server can return report information in real-time.

Materialized views do not support Data Archive compliance features. You cannot apply legal hold, retention, data browse, or data purge functionality to materialized views.

Define Materialized Views through the Enterprise Data Manager

To define and create materialized views through the Enterprise Data Manager, first review the view definitions. If required, change the views to map to the retired tables. Then run the create materialized views standalone job in Data Archive.

To run the job, you must know the Data Vault archive folder where you retired the application data. You must also know the name of the schema that you retired. If you retired multiple schemas, run the job for each schema.

For more information about running standalone jobs, see the *Informatica Data Archive User Guide*.

Reviewing Materialized View Definitions

Review the materialized view definitions before you create the views.

1. In the Enterprise Data Manager, click **View > Constraints**.
2. Double-click the healthcare accelerator and expand the accelerator version.
3. To review each view definition, expand the virtual view schema and click on the individual views. You can review the view definition SQL text on the **General Information** tab. You can also review the columns included in the view on the **Columns** tab.

Changing Materialized View Definitions

If required, change the views to map to the retired application tables.

1. In the Enterprise Data Manager, click **View > Constraints**.
2. Double-click the healthcare accelerator and expand the accelerator version.
3. In the virtual view schema, click the materialized view that you want to change.
4. In the **SQL Text** box, edit the SQL text that defines the view.
5. Click **File > Save**.

Running the Create Materialized Views Standalone Job

To run the create materialized views standalone job, select the job from the standalone programs list. Then define the job parameters and schedule the job.

1. In the Data Archive user interface, click **Jobs > Schedule a Job**.
2. Select **Standalone Programs** and click **Add Item**.
The **Select Definitions** window appears with a list of all available jobs.
3. Select the **Create Materialized Views** job and click **Select**.
4. Define the following job parameters:

Parameter	Description
Destination Repository	The archive folder in the Data Vault where you retired the application data. Click the list of values button and select from the available folders.
Schema Name	Name of the retired schema.

5. Schedule the job to run immediately or on a certain day and time.
6. Enter an email address to receive notification when the job completes, terminates, or returns an error.
7. Click **Schedule**.

Define Materialized Views through the Healthcare Metadata Portal

To define materialized views through the Healthcare Metadata portal in Data Archive, first complete the prerequisites. Then you can access the materialized view information through the **Data Visualization > Healthcare Metadata** menu.

Prerequisites

Before you can view, create, or edit materialized views in Data Archive, complete the prerequisites. You must assign the healthcare metadata administrator role to the user who wants to access the materialized view data. You must also create at least one materialized view through the Enterprise Data Manager and run the create materialized view standalone job. Then, launch the Patient Archives and select the retired application folder to copy the seed reports.

The **Healthcare Views and Reports** page works only with the materialized views shipped as part of the Application Retirement for Healthcare accelerator. The **Healthcare Views and Reports** page does not list any custom views or reports.

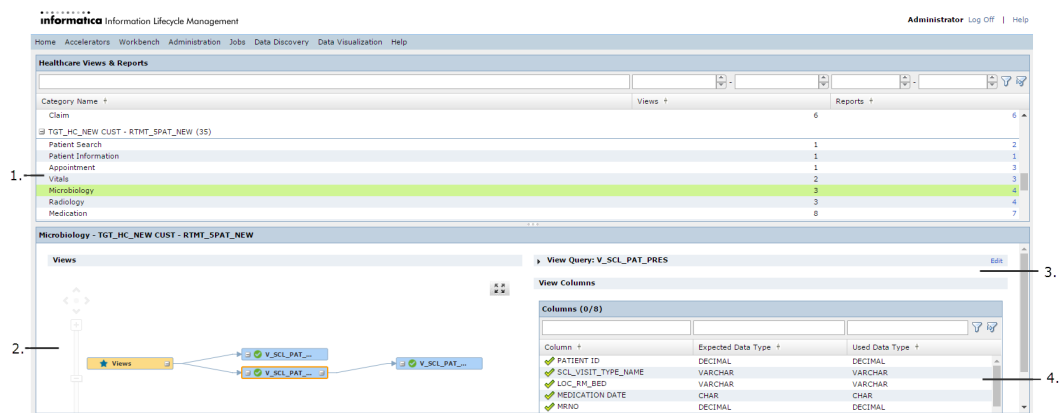
1. In Data Archive, click **Administration > Manage Roles** and assign the healthcare metadata administrator role to the user who wants to access the materialized view data.
2. Follow the process outlined above to create at least one materialized view manually. Edit the view definitions in the Enterprise Data Manager and run the create materialized view standalone job.
3. In Data Archive, click **Data Visualization > Patient Archives** to launch the Patient Archives.
4. Select the retired application folder to copy the seed reports.
5. Close the **Patient Archives** window.
6. Under **Healthcare Views and Reports**, select the retired application folder and click any report underneath the folder to see the views associated with the report. Select any view to view or edit the view query.

Healthcare Views and Reports User Interface

You can view, edit, create, and validate the materialized views through the **Healthcare Views and Reports** user interface.

To access **Healthcare Views and Reports**, click **Data Visualization > Healthcare Metadata**.

The following image shows the **Healthcare Views and Reports** window:

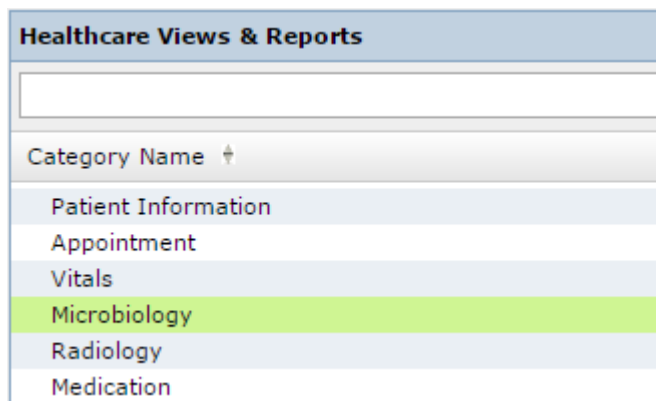


1. List of Patient Information reports within the selected folder. Select a report to see a graphical representation of the associated views.
2. Graphical representation of the materialized views associated with the selected report, in addition to their relationships to each other. Views that have already been created in Data Vault appear with a green checkmark and views that have not been created appear with a grey checkmark. Views that have been created with errors appear with a yellow exclamation point. Views that have been saved as a draft appear with draft icon. Select the view to review the query used to create the view.
3. The view query. Click the arrow next to "View Query" to expand the window, see the entire query, and create or edit the view.
4. Table of the columns included in the view, in addition to their data type and expected data type.

Defining a Materialized View

To define a materialized view and then create it in Data Vault, select a report and then an associated view. Expand the query window and modify the view text.

1. In the **Healthcare Views and Reports** table, select the report associated with the view that you want to create.



2. In the graphical representation of the views associated with the report, select the view that you want to define and create in Data Vault.
3. On the right side of the page, click the arrow next to the name of the view to expand the query.

► **View Query: V_SCL_PAT_MIBL**

4. Click **Edit**.
5. Edit the text of the query in the window.
6. Click **Create**. You can also save the query as a draft.

When you create the query, Data Archive runs a validation on the query. For example, if the query contains a table that does not exist in Data Vault, you receive an error message that contains the name of the table that does not exist in Data Vault. You can modify the query based on the validation and then try to create the table again.

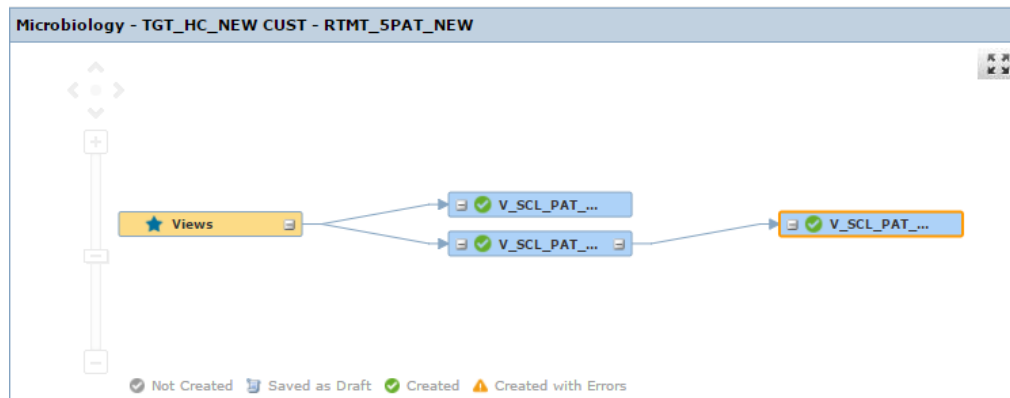
Editing a Materialized View

To edit a materialized view, select a report and then an associated view. Expand the query window and modify the view text.

1. In the **Healthcare Views and Reports** table, select the report associated with the view that you want to edit.

Healthcare Views & Reports	
Category Name	
Patient Information	
Appointment	
Vitals	
Microbiology	
Radiology	
Medication	

2. In the graphical representation of the views associated with the report, select the view that you want to create in Data Vault.



- On the right side of the page, click the arrow next to the name of the view to expand the query.

View Query: V_SCL_PAT_MIBL [Edit](#)

```
CREATE MATERIALIZED VIEW V_SCL_PAT_MIBL AS
SELECT
V_SCL_PAT_PRES.MRNo,
V_SCL_PAT_PRES.Loc_Rm_Bed,
V_SCL_PAT_PRES.DX,
V_SCL_PAT_PRES."Medication Date",
V_SCL_PAT_PRES."Patient ID",
T_SCL_PATIENT_MICROBIO.Scl_MB_Test_Procedure AS "Procedure",
T_SCL_MICROBIO_TESTS.Scl_MB_Test_Name || ':' || IFNULL(T_SCL_PATIENT_MICROBIO.Scl_MB_Result, ' ') AS Result,
T_SCL_MICROBIO_TESTS.Scl_MB_Test_Name AS "Test Name",
CHAR(T_SCL_PATIENT_MICROBIO.Scl_Record_Date,'mm/dd/yyyy') AS "Record Date",
T_SCL_PATIENT_MICROBIO_DETAILS.Scl_MB_Value AS "MB Value",
T_SCL_MICROBIO_ITEMS.Scl_MB_Item_Name AS "Item Name",
T_SCL_CD_MICROBIO_RANGE.Scl_Range_BGColor AS "Range BgColor",
T_SCL_CD_MICROBIO_RANGE.Scl_Range_Value AS "Range Value",
CASE T_SCL_CD_MICROBIO_RANGE.Scl_Range_Value
WHEN 2.0 THEN 'R'
WHEN 4.0 THEN 'I'
```

- Click **Edit**.
- The **Edit View Query** window appears.
- Edit the text of the query in the window.
- Click **Modify**.

Refresh Materialized Views

To run accurate accounts receivable reports through the Patient Archives, refresh the materialized views after a Patient Archives user adds a payment to a patient account.

Users can add a payment to a patient account within the Patient Archives. Users might need to add a payment to a patient account if they receive a payment from a patient or an insurance provider after you have retired the healthcare application.

After a user adds a payment to a patient account, you must refresh the materialized views before users can see the updated balance on accounts receivable reports. To refresh the materialized views, run the refresh materialized views standalone job.

You can schedule the refresh materialized views job to run on a periodic schedule that you choose. If you schedule the job to run periodically, you do not have to manually run the job each time that a Data Archive

user posts a payment. Do not schedule the job to run during business hours, because some reports might not be accessible while the job runs.

For more information about running standalone jobs, see the *Informatica Data Archive User Guide*.

Running the Refresh Materialized Views Standalone Job

To run the refresh materialized views job, select the job from the standalone programs list. Then define the job parameters and schedule the job.

1. In the Data Archive user interface, click **Jobs > Schedule a Job**.
2. Select **Standalone Programs** and click **Add Item**.
The **Select Definitions** window appears with a list of all available jobs.
3. Select the **Refresh Materialized Views** job and click **Select**.
4. Define the following job parameters:

Parameter	Description
Destination Repository	Archive folder in the Data Vault where you retired the application data. Click the list of values button and select from the available folders.
Schema	Name of the retired schema.
Entity	Name of the entity that contains the view or views you want to refresh. By default, the entity that contains accounts receivable views is called Healthcare Refresh Materialized View AR Entity. This field is optional.
Refresh All Views	Determines whether to refresh all of the materialized views. If you do not know the entity or name of the view you need to refresh, click the list of values button and select Yes . If you select No , you must provide the entity or the name of the view you want to refresh.
View	Name of view you want to refresh. This view maps to accounts receivable tables in the retired application. Click the list of values button and select the view. This field is optional.

5. Schedule the job to run immediately or on a certain day and time.
6. Enter an email address to receive notification when the job completes, terminates, or returns an error.
7. Click **Schedule**.

CHAPTER 3

Accelerator Configuration

This chapter includes the following topics:

- [Accelerator Configuration Overview, 19](#)
- [Patient Archive Reports Configuration, 19](#)
- [Accounts Receivable Burndown Configuration, 21](#)
- [Configuration Process, 21](#)
- [Configure Patient Archive Reports, 21](#)
- [Configure Accounts Receivable Burndown, 24](#)
- [Copying the Accounts Receivable Burndown Entity, 26](#)
- [Release of Information Configuration, 26](#)
- [Prerequisites, 26](#)
- [Release of Information Process, 26](#)

Accelerator Configuration Overview

Before Data Archive users can access the Patient Archives to run reports or add a payment to a patient account, as a Data Archive Administrator you must complete the following configuration tasks:

- **Configure Patient Archive reports.** Before a Data Archive user/users can access the Patient Archives and run reports, you must assign them certain system-defined roles in addition to a Data Vault access role. You must also assign the access role to the entity or entities that contain the materialized views used to create the reports.
- **Configure Accounts Receivable Burndown.** The accelerator installs a pre-built Accounts Receivable Burndown entity in the Enterprise Data Manager. Before you can add multiple payments to patient accounts with the Accounts Receivable Burndown function, you must assign the entity to the accounts receivable reports. Assigning the entity to the reports allows users to run accounts receivable reports that reflect updated balances.

Patient Archive Reports Configuration

Before a Data Archive user can access the Patient Archives, you must assign the required system-defined roles to the user. You can create a user or multiple users specifically to access the Patient Archives.

Alternatively, you can assign the required system-defined roles to an existing Data Archive user. You must also create and assign a Data Vault access role to both the user and the required report entities.

For more information about users, system-defined roles, and access roles, see the *Informatica Data Archive Administrator Guide*.

System-Defined Roles

To access the Patient Archives and perform different tasks, users must have at least two system-defined roles.

The Patient Archive reports are types of Data Visualization reports. To use Data Visualization reports, every user that accesses the Patient Archives must have one or both of the following system-defined roles for Data Visualization:

Report Designer

Allows the user to create, run, copy, and delete Patient Archive reports.

Report Viewer

Allows the user to run, print, and export Patient Archive reports.

In addition to a Data Visualization role, every user that accesses the Patient Archives must have the Healthcare Portal User role. Users that post payments to a patient account must have the Healthcare Account Admin role.

The following list describes the Healthcare Portal User and Healthcare Account Admin roles:

Healthcare Account Admin

Allows the user to add a payment to a patient account. Users with this role can add payments to a patient account through the Payments area, the Accounts Receivable Burndown area, and through Accounts Receivable reports. If a user without this role tries to add a payment to a patient account, the Update for AR Burndown job will fail.

Healthcare Portal User

Allows the user to access the Patient Archives. Users without this role cannot see the Patient Archives tab within the Data Visualization menu in the Data Archive user interface.

Data Archive updates role assignments according to the value of the user cache timeout parameter in the Data Archive system profile. The default value of this parameter is five minutes. If a role assignment has not updated after five minutes, review the user cache timeout parameter in the system profile. For more information about the Data Archive system profile, see the *Informatica Data Archive Administrator Guide*.

Data Vault Access Roles

Create a Data Vault access role. Then assign it to both the Patient Archives user and the entity or entities that contain the views used to create the Patient Archive reports.

Data Vault access roles determine which Patient Archive reports that a user can view. After you create an access role, you assign the role to a user. You also assign the role to the entity or entities that contain the specific materialized views used in the reports that the user wants to run. Users can run or manage a report only if they have the same access role as the entity used to create the report.

The entities that contain the materialized views used to create Patient Archive reports are predefined and imported by the accelerator installer during installation. After you create the access role and assign it to a user, assign the role to one or more of the following entities in the Enterprise Data Manager:

Healthcare_Account_Reports_Entity

Contains the views required to run accounts receivable and claim reports.

Healthcare_Patient_Reports_Entity

Contains the views required to run patient information reports.

Healthcare_All_Reports_Entity

Contains the views required to run all Patient Archive reports, including accounts receivable, claim, and patient information reports.

Accounts Receivable Burndown Configuration

Before you or another Data Archive user can add a payment to a patient account, you must configure the Accounts Receivable Burndown function.

To configure Accounts Receivable Burndown, assign the accounts receivable reports to the Accounts Receivable Burndown entity in the Enterprise Data Manager. Then, review how to format the CSV data file that you must create and upload during the AR Burndown job.

Configuration Process

To configure the accelerator, perform the following tasks:

Configure Patient Archive reports.

1. Optionally, create a user to log in to the Patient Archives.
2. Create a Data Vault access role for the Patient Archives.
3. Assign the access role to the required reports entity or entities.
4. Assign the access role and required system-defined roles to the Patient Archives user.

Configure Accounts Receivable Burndown.

1. Assign the Accounts Receivable Burndown entity to the accounts receivable reports.
2. Review the guidelines for creating the CSV data file.

Configure Patient Archive Reports

To configure Patient Archive reports, assign the required system-defined roles to a new Data Archive user or an existing Data Archive user. After you designate or create a Patient Archives user, create a Data Vault access role and assign the access role to both the user and the entity or entities used to create the Patient Archive reports. Then assign the required system-defined roles to the user.

Step 1. Creating a Patient Archives User

When you create a user, you provide properties for contact and login information.

1. Click **Administration > Manage Users**.

2. Click **New User**.

The **New User** page appears.

3. Enter the following user properties:

Field	Description
Full Name	First and last name of user. Full name can consist of letters, spaces, apostrophes ('), and dashes (-).
Email	The user receives notifications at this email address.
Department	Name of the department or organization of the user. This can consist of letters, spaces, apostrophes ('), and dashes (-).
Login ID	Login ID for the user account. The login ID can include letters and numbers.
Password	Password for the user account. The password can include a maximum of 40 characters. The password cannot contain the following characters: ! / = \$ & @ " ' ` ,
Valid from	Start date of the user account validity period.
Valid until	End date of the user account validity period.
Login is (Enabled / Disabled / Locked)	User account status.
Must change password at next login	If enabled, forces the user to choose a new password at the next login.
Password never expires	Overrides the global setting to prompt for password change after a specified period.

4. Click **Save**.

Step 2. Creating a Data Vault Access Role

When you create a Data Vault access role, you define the name, description, and a period of time that the role is valid.

1. Click **Administration > Manage Roles**.

2. Click **New Role**.

3. Enter the following Data Vault access role properties:

Property	Description
Role Name	Unique name for the role. Note that after you create the role, you cannot edit the role name. You cannot use the following special characters in the role name: < >
Description	Description of the role.
Valid From	Start date of the period of time that the role is valid.
Valid Until	End date of the period of time that the role is valid. The date is optional. By default, roles do not have an end date unless you specify one. Roles without an end date are valid indefinitely.

4. Click **Save**.

Step 3. Assigning the Data Vault Access Role to a Reports Entity

After you create the access role, assign it to the entity or entities that contain the materialized views used to create the Patient Archive reports.

1. Click **Administration > Manage Roles**.
2. Click **Assign Role to Entity**.
3. Choose the Patient Archives report entity that you want to assign the access role to.
4. Click **Add Role**.
If the entity has role assignments, a list of the assigned roles appears.
5. Click **Add Role**.
A new line appears in the list of roles.
6. Select the Data Vault access role that you created and enter the validity dates of the role assignment.
7. Click **Save**.

Step 4. Assigning Roles to a User

Assign both the access role that you created and the system-defined roles for healthcare to the user who will access the Patient Archives.

1. Click **Administration > Manage Users**.
A list of users appears.
2. Click **Edit** next to the healthcare user that you created, or the user that you want to assign Patient Archive privileges.
The user details appear.
3. Click **Add Role**.
A new line appears in the list of roles.
4. Select the access role that you created and enter the validity dates of the role assignment.
5. Click **Add Role**.
A new line appears in the list of roles.
6. Select either the Report Viewer or Report Designer role and enter the validity dates of the role assignment.

If you want the user to have both the Report Viewer and Report Designer roles, repeat the step and select the other role.

7. Click **Add Role**.

A new line appears in the list of roles.

8. Select the Healthcare Portal User role.

If the user needs the ability to add a payment to a patient account, repeat the step and assign the Healthcare Account Admin role to the user.

9. Click **Save**.

Configure Accounts Receivable Burndown

To configure Accounts Receivable Burndown, assign the accounts receivable reports to the Accounts Receivable Burndown entity. Then review how to format the CSV data file for bulk uploads.

Assigning the Accounts Receivable Reports to the Accounts Receivable Burndown Entity

In the Data Archive user interface, assign the accounts receivable reports to the Accounts Receivable Burndown entity.

1. Click **Administration > Manage AR Report & Entity Association**.

The **Manage Accelerator Reports** page appears.

2. Click **Assign Report to Entity**.

The **Assign Report to Entity** page appears.

3. To select a value for each field, click the **List of Values** button next to each of the following entity properties:

Property	Description
Application Version	Version of the accelerator that you installed.
Application Module	Healthcare accelerator application module.
Entity Name	Healthcare AR entity.

4. Click **Assign Report**.

A new row appears in the Assign Report table.

5. Click the **List of Values** button next to the Accelerator Type field and select **Healthcare**.

6. Click the **List of Values** button next to the Report Name field and select **Add Payment**.

7. Click **Save**.

CSV Data File Formatting for Accounts Receivable Burndown

To add multiple payments to one or more patient accounts at the same time, Data Archive users can submit a CSV data file. The data file triggers the update for AR Burndown standalone job, which updates the patient

payment information in the Data Vault. Users must format the CSV file to match the default columns of the AR Burndown entity interim table.

The Accounts Receivable Burndown function gives users the ability to upload a CSV file that contains information about multiple payments. When a user submits the data file, it triggers the update for AR Burndown standalone job. The job first runs multiple validation steps, including a check to verify if the user who submitted the data file has the Healthcare Account Admin system-defined role. If validation is successful, the job reads the CSV data file and generates a BCP file and a metadata file in the staging location. Then the job calls a JSP that updates the patient payment information table in the Data Vault with the new payment information.

In order for the update for AR Burndown job to correctly generate the BCP file, the user must format the CSV data file in a specific way. The order of the default columns present in the Accounts Receivable Burndown entity interim table must match the order of entries in the CSV file.

The following image shows interim table columns of the Accounts Receivable Burndown entity in the Enterprise Data Manager:

Order	Name	Type	Length	PK	Select clause
1	Sql_Patient_Id	Numeric		<input checked="" type="checkbox"/>	T_SQL_PATIENT_PAYMENT.Sql_Patient_Id
2	Sql_Pk_In	Numeric		<input checked="" type="checkbox"/>	T_SQL_PATIENT_PAYMENT.Sql_Pk_In
3	Sql_Patient_Billing_Id	Number		<input checked="" type="checkbox"/>	T_SQL_PATIENT_PAYMENT.Sql_Patient_Billing_Id
4	Sql_Payment_Mode	Varchar	50	<input checked="" type="checkbox"/>	T_SQL_PATIENT_PAYMENT.Sql_Payment_Mode
5	Sql_Payer_Id	Number	50	<input checked="" type="checkbox"/>	T_SQL_PATIENT_PAYMENT.Sql_Payer_Id
6	Sql_Payment_Type	Varchar	50	<input checked="" type="checkbox"/>	T_SQL_PATIENT_PAYMENT.Sql_Payment_Type
7	Sql_Amount	Number		<input checked="" type="checkbox"/>	T_SQL_PATIENT_PAYMENT.Sql_Amount
8	Sql_Pay_Date	Datetime		<input checked="" type="checkbox"/>	T_SQL_PATIENT_PAYMENT.Sql_Pay_Date
9	Sql_Received_By_Emp_Id	Number		<input checked="" type="checkbox"/>	T_SQL_PATIENT_PAYMENT.Sql_Received_By_Emp_Id
10	Sql_Payment_Status	Varchar	20	<input checked="" type="checkbox"/>	T_SQL_PATIENT_PAYMENT.Sql_Payment_Status
11	Sql_Payment_Description	Varchar	100	<input checked="" type="checkbox"/>	T_SQL_PATIENT_PAYMENT.Sql_Payment_Description
12	Sql_Payment_Code	Varchar	10	<input checked="" type="checkbox"/>	T_SQL_PATIENT_PAYMENT.Sql_Payment_Code
13	Sql_Payment_By	Varchar	20	<input checked="" type="checkbox"/>	T_SQL_PATIENT_PAYMENT.Sql_Payment_By
14	Sql_Payment_Write_Off	Number		<input checked="" type="checkbox"/>	T_SQL_PATIENT_PAYMENT.Sql_Payment_Write_Off
15	Sql_Charge_Id	Number		<input checked="" type="checkbox"/>	T_SQL_PATIENT_PAYMENT.Sql_Charge_Id
16	Sql_Status_Id	Number		<input checked="" type="checkbox"/>	T_SQL_PATIENT_PAYMENT.Sql_Status_Id
17	Sql_Status_Reason_Id	Number		<input checked="" type="checkbox"/>	T_SQL_PATIENT_PAYMENT.Sql_Status_Reason_Id
18	Sql_Allowed	Number		<input checked="" type="checkbox"/>	T_SQL_PATIENT_PAYMENT.Sql_Allowed
19	Sql_Contract_Adj	Number		<input checked="" type="checkbox"/>	T_SQL_PATIENT_PAYMENT.Sql_Contract_Adj
20	Sql_Second_Adj	Number		<input checked="" type="checkbox"/>	T_SQL_PATIENT_PAYMENT.Sql_Second_Adj
21	Sql_Deductible	Number		<input checked="" type="checkbox"/>	T_SQL_PATIENT_PAYMENT.Sql_Deductible
22	Sql_Coinurance	Number		<input checked="" type="checkbox"/>	T_SQL_PATIENT_PAYMENT.Sql_Coinurance
23	Sql_Copay	Number		<input checked="" type="checkbox"/>	T_SQL_PATIENT_PAYMENT.Sql_Copay
24	Sql_Note	Varchar	100	<input checked="" type="checkbox"/>	T_SQL_PATIENT_PAYMENT.Sql_Note
25	Sql_Trans_Type_Id	Number		<input checked="" type="checkbox"/>	T_SQL_PATIENT_PAYMENT.Sql_Trans_Type_Id
26	Sql_Contract_Adj_Reason	Varchar	100	<input checked="" type="checkbox"/>	T_SQL_PATIENT_PAYMENT.Sql_Contract_Adj_Reason
27	Sql_Second_Adj_Reason	Varchar	100	<input checked="" type="checkbox"/>	T_SQL_PATIENT_PAYMENT.Sql_Second_Adj_Reason

Each entry in the CSV file must be separated by a comma. Any mismatch in column order between the CSV file and the interim table might result in incorrect BCP file generation when the user submits the file.

If the column is marked as a primary key, the user does not have to enter a value for that column in the CSV file. Columns marked as primary keys in the Enterprise Data Manager must be numeric columns.

The information for each payment must be entered on a single line in the CSV file. There is no specific limit to the number of payments that users can submit in one CSV file. However, the maximum size of a single CSV file is 100 KB. If the size of the file exceeds 100 KB, users must split the data unto multiple CSV files before they can submit the files.

The following images shows an example of a CSV file with values for each of the default columns in an Accounts Receivable Burndown entity interim table:

```

2013081,1,Cheque,16,Part,25,12/15/2014,8,Païd,Païd,10081,Insurance,52,2,1,1,100,100,0,0,0,0,Bill,1
  
```

Copying the Accounts Receivable Burndown Entity

You can copy the Accounts Receivable Burndown entity from one schema to another.

When you copy the AR Burndown entity from one schema to another, perform the following tasks:

1. Copy the AR Burndown entity to the new schema.
2. Remove the table from the entity, as well as the interim tables and tables tabs.
3. Right-click the entity and select **Insert Table** from the respective schema.
4. Add the table in the interim tables and tables tabs, with the insert statement as "1=1" and delete statement as "1=0."
5. Save the entity and run the AR Burndown job.

Release of Information Configuration

The release of information form allows a Patient Archives user to request specific patient information reports bundled together in a .zip file and available for download in .pdf format. A user might download these reports for a patient or client who wants a record of their medical history. Or, a user might download these reports to send to another clinic or facility at the request of the patient or client.

Before a Patient Archives user can submit a release of information form, you must generate an index data file, create a metadata file, and load these files to Data Vault with a standalone job. This process is required because the release of information job must search across multiple archive folders (retired applications) at once to find all of the reports for a specific patient. After you have completed these steps, users can then submit the release of information form and specify which patient information reports that they want to export.

Users must have the Healthcare Information Management User role to submit the release of information form. Verify that this role is assigned to users who must submit the release of information form.

Prerequisites

Before you configure the release of information form, verify that the following pre-requisites are complete:

1. You have successfully retired the healthcare application data to the Data Vault.
2. In the Patient Archives, you have already successfully run patient information reports for each retired application.

Release of Information Process

To configure the release of information form, complete the following tasks:

1. Identify the columns for the index data file.
2. Generate the release of information index data.

3. Create the metadata file.
4. Run the Release of Information Index Record standalone job.
5. Assign the Healthcare Information Management User role.

Step 1. Identify the Columns for the Index Data File

Identify the columns that must be included in the index data file.

- Identify the columns that need to part of the index data file. These columns must include all of the required columns provided in Step 3. After you identify the searchable column list, determine how these columns can be extracted from the different healthcare applications. Various healthcare applications have the index column information available differently. You must determine the corresponding tables and columns from the application.

Step 2. Generate the Release of Information Index Data

To generate the reports for the release of information request, you must first generate index data to run a search for the patient across multiple archive folders. Index data is generated using the application data retired to Data Vault.

1. Write a query to generate the index data. The following sample queries use the common Informatica data model.
 - If a single character is used as a column separator, see the following sample query which uses "#" as the column separator. Change the path of the staging location in the following query.

```
set schema dbo; .export { SELECT T_SCL_INPATIENT_ADDS.Scl_MR_No AS MRNo,
T_SCL_PATIENT_ACCOUNT.Scl_First_Name AS FirstName,
T_SCL_PATIENT_ACCOUNT.Scl_Middle_Name AS MiddleName,
T_SCL_PATIENT_ACCOUNT.Scl_Last_Name As LastName, INT((today() -
date(T_SCL_PATIENT_ACCOUNT.Scl_Dob))/365.25) AS
Age,T_SCL_PATIENT_ACCOUNT.Scl_Gender AS
Gender,CHAR(DATE(T_SCL_PATIENT_ACCOUNT.Scl_Dob),'mm/dd/yyyy') AS "Date of Birth",
T_SCL_PATIENT_ACCOUNT.Scl_Email AS Email, T_SCL_PATIENT_ADDRESS.Scl_Phone1 AS
Phone1, T_SCL_PATIENT_ACCOUNT.Scl_Marital_Status As MaritalStatus, 'EMRSYSTEM1',
LEFT(T_SCL_PATIENT_ACCOUNT.Scl_SSN, 4) || 'XX-XXXX' AS SSN,
T_SCL_PATIENT_ADDRESS.Scl_Zip AS ZipCode FROM T_SCL_PATIENT_ACCOUNT INNER JOIN
T_SCL_INPATIENT_ADDS ON T_SCL_PATIENT_ACCOUNT.Scl_Patient_Id =
T_SCL_INPATIENT_ADDS.Scl_Patient_Id INNER JOIN T_SCL_PATIENT_ADDRESS ON
T_SCL_PATIENT_ADDRESS.Scl_Patient_Id = T_SCL_PATIENT_ACCOUNT.Scl_Patient_Id }
into 'D:\rahu1\Rahul_Installation\ILM_6.4.3\ILM_NEW\EMRSYSTEM1.csv' escape
'\ ' '#' '\x0A' '; .exit;
```

- If multiple characters are required as column separators, see the following sample query which uses "%@" as the column separator. You can change the separator if required. Change the path of the staging location in the following query.

```
set schema dbo; .export { SELECT char(T_SCL_INPATIENT_ADDS.Scl_MR_No) || '%@%'
|| IFNULL(T_SCL_PATIENT_ACCOUNT.Scl_First_Name,'') || '%@%' ||
IFNULL(T_SCL_PATIENT_ACCOUNT.Scl_Middle_Name,'') || '%@%' ||
IFNULL(T_SCL_PATIENT_ACCOUNT.Scl_Last_Name,'') || '%@%' || char(INT((today() -
date(T_SCL_PATIENT_ACCOUNT.Scl_Dob))/365.25)) || '%@%' ||
IFNULL(T_SCL_PATIENT_ACCOUNT.Scl_Gender,'') || '%@%' ||
CHAR(DATE(T_SCL_PATIENT_ACCOUNT.Scl_Dob),'mm/dd/yyyy') || '%@%' ||
IFNULL(T_SCL_PATIENT_ACCOUNT.Scl_Email,'') || '%@%' ||
IFNULL(T_SCL_PATIENT_ADDRESS.Scl_Phone1,'') || '%@%' ||
IFNULL(T_SCL_PATIENT_ACCOUNT.Scl_Marital_Status,'') || '%@%' || 'EMRSYSTEM1' ||
'%@%' || LEFT(T_SCL_PATIENT_ACCOUNT.Scl_SSN, 4) || 'XX-XXXX' || '%@%' ||
IFNULL(T_SCL_PATIENT_ADDRESS.Scl_Zip,'') FROM T_SCL_PATIENT_ACCOUNT INNER JOIN
T_SCL_INPATIENT_ADDS ON T_SCL_PATIENT_ACCOUNT.Scl_Patient_Id =
T_SCL_INPATIENT_ADDS.Scl_Patient_Id INNER JOIN T_SCL_PATIENT_ADDRESS ON
```

```
T_SCL_PATIENT_ADDRESS.Scl_Patient_Id = T_SCL_PATIENT_ACCOUNT.Scl_Patient_Id) into
'D:\rahul\Rahul_Installation\ILM_6.4.3\ILM_NEW\EMRSYSTEM1.csv' CSV; .exit;
```

- a. In the SQL query, use the schema name on which you have retired the application. In the preceding example, the schema name is "dbo," but this can differ based on the schema chosen for application retirement.
 - b. Change the SQL to fetch the tables that must be part of the index table. In the preceding example, the required information comes from the tables T_SCL_PATIENT_ACCOUNT, T_SCL_INPATIENT_ADDS and T_SCL_PATIENT_ADDRESS. Change the query to fetch the data from the table specific to the application.
 - c. Modify the query to replace "EMRSYSTEM1" with the name of the target archive folder where you retired the healthcare application.
2. To run the modified SQL, connect to Data Vault. Open the command prompt and go to the Data Vault installation directory.
 3. Run `ssaenv.bat` or `ssaenv.sh` to set the environment path.
 4. To load the index data to a .CSV index file, run the following command:

```
ssasql <CONNECTION_NAME> <DB_NAME> dba/dba < ExportSql.sql
```

In the command above, replace "ExportSql.sql" with the path of the SQL file that you modified to be specific to the application.
 5. The command generates a .csv index file at the location (full path) specified in the SQL. You can see a sample .csv index file here: `ILM_INSTALLATION/optional/EMR_DOCUMENT/ EMRSYSTEM.csv`

Step 3. Create the Metadata File

This file contains metadata about the schema and tables to be created in the Data Vault. The columns in the metadata file must be in the same order as the .csv file. See a sample metadata file here:

`ILM_INSTALLATION/optional/EMR_DOCUMENT/EMR_METADATA.XML`

1. Using the sample metadata file as a template, create a metadata file. When you create the metadata file, adhere to the following rules:
 - Do not change the column APP_NAME. APP_NAME is used to create the schema in Data Vault.
 - Do not change the column TABLE NAME. A table will be created with this name in Data Vault.
 - The release of information form uses some of the columns to search on the index data. Do not change the column name or column data type for the columns mentioned below. You can change the column order, but it must match with the index data file column order. The searchable columns are:
 - MRNO
 - First Name
 - Middle Name
 - Last Name
 - DOB
 - Email
 - Phone
 - SSN
 - Zipcode
2. If required, you can add more columns to the index data and metadata files. These columns are not searchable, but can be viewed in the search results page.
3. Change the column separator that you used in the index data file.

After the index data files for all applications and the metadata file (which is the same for all applications) are complete, load the index data and metadata to Data Vault with the release of information index record standalone job.

Step 4. Run the Release of Information Index Record Standalone Job

The release of information index record standalone job loads the index data and metadata file to the Data Vault.

The archive folder where the index data will be created must already exist.

1. From the Data Archive user interface, click **Jobs > Schedule a Job**.
2. Select the **Release of Information Index Record** standalone job.
3. Verify that all data files are available on the staging location of the target repository used for loading the index data.
4. Enter the job parameters:
 - Metadata file: absolute path of the metadata file that you created. Must be accessible to the ILM application server.
 - Target archive store: the target connection on which you want to load the index data.
 - Purge after load: if set to true, the index data file is deleted after load.
5. To run the job, click **Schedule**.

The release of information index record job loads all the index data files available in the staging location to the Data Vault. The metadata and index files must be accessible to the server.

Step 5. Assign the Healthcare Information Management User Role

Assign the Healthcare Information Management User role to the login users who will access the Release of Information form.

A system-defined role called "Healthcare Information Management User" is available in Data Archive. Users that do not have this role cannot access the **Release of Information** link located under the **Data Visualization** menu. The Healthcare Information Management User role is assigned by default to the Administrator (amadmin) user. If a user has only the Healthcare Information Management User role, then after login the user is directed to the Release of Information search page by default.

If a user has any additional roles in the system, the landing page opens according to those roles. You can navigate to the Release of Information search form by clicking **Data Visualization > Release of Information**.

1. To assign the role, click **Administration > Manage Users**.
A list of users appears.
2. Click **Edit** next to the user that you want to assign the role to.
The user details appear.
3. Click **Add Role**.
Another line appears in the list of roles.
4. Select the Healthcare Information Management User Role and enter the validity dates of the role assignment.

5. Click **Save**.

In addition to this role, the user must have access to the retired healthcare application.

For information on submitting the Release of Information form, see the chapter *Patient Information Reports*.

Known Limitations

The following known limitations exist for the release of information form:

1. You cannot change the APP_NAME and TABLE NAME columns, or the searchable column metadata in the provided metadata XML file. If you create a new metadata XML file, you must use the same information provided in the sample metadata file.
2. If the archive folder (which contains the reports to be run for an application) does not exist on the server when an export job is submitted, the Release of Information job fails. There is no error message displayed when you click on the Release of Information hyperlink. A blank report will open when you click the link.
3. There are no validations on the patient search fields. You can provide any input because the application data is unknown.
4. On AIX environments, Front Page (the Jasper report generated to show export information) labels are not displayed.

CHAPTER 4

Accounts Receivable and Claim Reports

This chapter includes the following topics:

- [Accounts Receivable and Claim Reports Overview, 31](#)
- [Accounts Receivable Report Types, 32](#)
- [Running Accounts Receivable Reports, 33](#)
- [Payment Processing, 34](#)
- [Claim Reports, 39](#)
- [Running Claim Reports, 40](#)

Accounts Receivable and Claim Reports Overview

Data Archive users assigned to the Healthcare_Account_Reports entity or the Healthcare_All_Reports entity can run accounts receivable reports in the Accounts Receivable area of the Patient Archives. In addition, users with the Healthcare Account Admin role can add a payment to a patient account. If you are unsure whether or not you have the correct role to run a report or submit a payment, contact a Data Archive Administrator.

Accounts receivable reports contain information about money owed to an organization by patients or insurance providers. You can view the accounts receivable reports in different forms, including a summary report, an analysis report, and a details report.

If a patient or an insurance provider submits a payment, you can add the payment information to the patient account. This ensures that the accounts receivable reports reflect accurate balances. If a patient submits a payment themselves, you can add the payment to their account in the Payments area. Or, to add more than one payment at a time, you can submit a data file through the Accounts Receivable Burndown function that contains information about multiple payments to multiple patient accounts. You can also post payments submitted by an insurance provider or company through the Accounts Receivable Details report.

Claim reports contain information about health insurance claims, such as the claim status, the insurance provider, and the insurance policy number. You can search for an individual claim to view the claim details, or you can generate a list of all claims within a specified time period.

Accounts receivable reports and claim reports are types of Data Visualization reports. For more information about Data Visualization reports, see the *Informatica Data Archive User Guide*.

Accounts Receivable Report Types

You can run the following types of accounts receivable reports:

Accounts Receivable Summary

The accounts receivable summary report summarizes the unpaid balances of all patients combined and all insurance providers combined. The report is organized by how many days the invoices are past due.

The following image shows an example of the accounts receivable summary report:



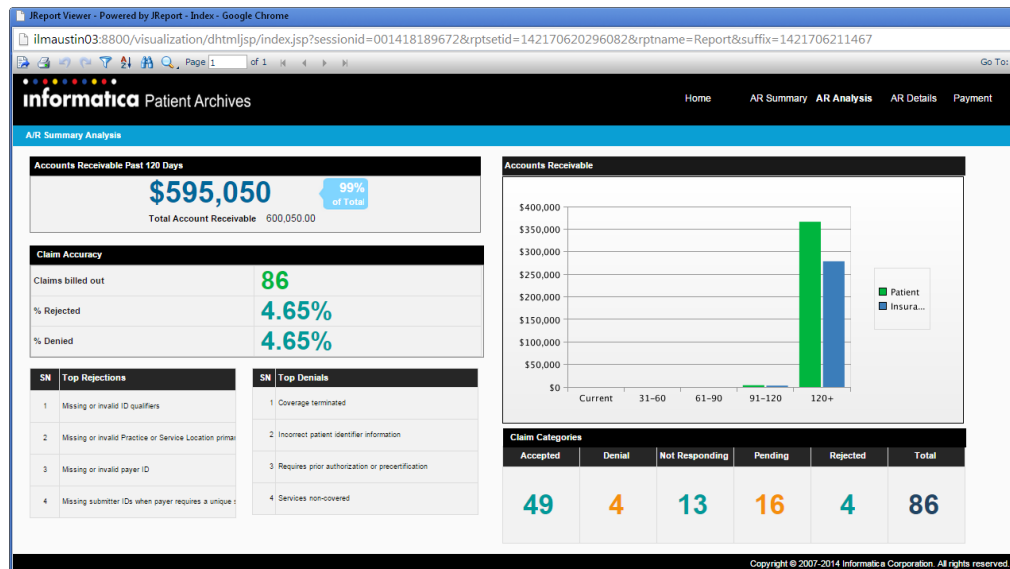
Unbilled Charges	Type	Current	31-60	61-90	91-120	120+	Total Outstanding
\$38,200.00	Patient	\$0.00	\$0.00	\$0.00	\$4,000.00	\$365,200.00	\$409,400.00
\$10,500.00	Insurance	\$0.00	\$0.00	\$0.00	\$0.00	\$144,400.00	\$154,900.00
\$48,700.00	Grand Total	\$0.00	\$0.00	\$0.00	\$4,000.00	\$510,600.00	\$563,300.00
8.65%	Total %	0%	0%	0%	0.71%	90.64%	100%

To view a summary of outstanding balances by individual patients or insurance providers, click the **Patient** or **Insurance** links in the Type column of the report.

Accounts Receivable Analysis

The accounts receivable analysis report contains information about the total outstanding accounts receivable amount. It also contains summary information about the number of claims billed, the percentage of claims rejected or denied, and the reasons for rejection or denial.

The following image shows an example of the accounts receivable analysis report:



Accounts Receivable Details

The accounts receivable details report contains detailed accounts receivable information that you can generate by insurance provider, insurance plan, or patient. The report contains details such as the claim ID, procedure code, patient payment, adjustment and copay amounts, and total charges.

The following image shows an example of the accounts receivable details report, generated by insurance provider:

Report Viewer - Powered by iReport - Index - Google Chrome

ilmaustin03:8800/visualization/dhtmljsp/index.jsp?sessionId=001418189672&rptsetid=142170653686790&rptname=Report

<

Each row in the table represents an invoice associated with the selected insurance provider. To print an invoice, click the **Printer** button. If an insurance provider or company submits a payment for a patient account, you can click the **Add** button to apply the payment to the patient account through the associated invoice.

Running Accounts Receivable Reports

To run an accounts receivable report, select the type of report that you want to run. Optionally, apply filters or hide columns in the report before you run it.

If you use the Google Chrome browser, you must disable the pop-up blocker before you run a report.

1. In the Data Archive user interface, click **Data Visualization > Patient Archives**.

You might receive a prompt to select the archive folder where the healthcare application was retired. If you do not know the name of the application archive folder, contact a Data Archive administrator. If you do know the name of the archive folder, select it and click **OK**.

The **Patient Archives** landing page appears.

2. Click the **Accounts Receivable** icon.

The **Accounts Receivable** page appears.

3. To select which report you want to run, click one of the accounts receivable report icons.
4. Optionally, select report filters such as insurance provider or clinic location to filter the report information by certain criteria.
5. Optionally, select the check box next to any column that you do not want to appear on the report.
6. To run the report, click **Apply**.
7. Optionally, print or export the report by clicking the **Print** or **Export** buttons at the top of the report.

Payment Processing

If a patient or an insurance provider submits a payment, you can add the payment to the patient's account in the accounts receivable area of the Patient Archives. Add a payment to a patient account so that you can run accounts receivable reports with accurate outstanding balances.

If a patient submits a payment themselves, you can add the single payment to the patient account in the Payments area. When you add a single payment to a patient account, you search for the patient by name and then enter details related to the payment, such as the payment amount and date.

You can also add a single payment from an insurance provider or company to a patient account. To process a payment from an insurance company or provider, run the Accounts Receivable Details report and add the payment through the report.

You can also add multiple payments for one or more patient accounts at the same time with the Accounts Receivable Burndown function. To submit multiple payments at the same time, you must create a CSV data file that contains the payment details. Use a text editor such as Notepad to create and save the file as a CSV file. You must format the file in a specific way and then submit the file for Data Archive to process. If you are unsure how to format the CSV data file, contact a Data Archive Administrator.

When you submit multiple payments in a CSV data file, Data Archive runs a standalone job that updates the patient account information to reflect the new account balance. Before the new balance appears in any accounts receivable reports, you or a Data Archive administrator must run the refresh materialized views standalone job. The accounts receivable reports generate the report information based on the materialized views. For more information about the refresh materialized views standalone job, see the chapter *Materialized Views and View Definitions* or contact a Data Archive administrator.

Adding a Patient-Submitted Payment to a Patient Account

To add a single patient-submitted payment to a patient account, select the appropriate transaction and then enter the payment details.

1. Click **Data Visualization > Patient Archives**.

You might receive a prompt to select the archive folder where the healthcare application was retired. If you do not know the name of the application archive folder, contact a Data Archive administrator. If you do know the name of the archive folder, select it and click **OK**.

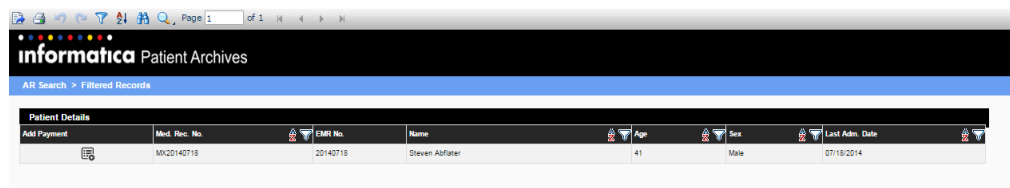
The **Patient Archives** landing page appears.

2. Click the **Payments** icon.

The **Patient Search** page appears.

3. Enter all or part of the patient's name and click **Apply**. The search function is not case-sensitive.

The **Filtered Records** page appears.



4. Find the correct patient in the list of records and click the **Add Payment** button next to the patient's medical record number.

If your search returns multiple results, you can filter the results by medical record number, age, or other criteria to help you find the correct patient.

The **Service Associated** page appears.

Claim ID - Service Date	ProCode	Charge Description	Payment ID	Charge Amount	Balance	Paid
50 07/19/2014	26	Professional Component	47	11,000.00	1,000.00	10,000.00
51 07/19/2014	26	Professional Component	47	11,000.00	1,000.00	10,000.00
52 07/21/2014	26	Professional Component	48	11,000.00	1,000.00	10,000.00
53 07/19/2014	26	Professional Component	48	11,000.00	1,000.00	10,000.00
	78	Return to the Operating Room for a Related Procedure During the Postoperative Period	198	12,000.00	4,000.00	8,000.00
	78	Return to the Operating Room for a Related Procedure During the Postoperative Period	198	12,000.00	4,000.00	8,000.00
	78	Return to the Operating Room for a Related Procedure During the Postoperative Period	198	12,000.00	4,000.00	8,000.00
	26	Professional Component	47	11,000.00	1,000.00	10,000.00
	26	Professional Component	48	11,000.00	1,000.00	10,000.00
	78	Return to the Operating Room for a Related Procedure During the Postoperative Period	198	12,000.00	4,000.00	8,000.00

- To select the charge that you want to apply the payment to, click the **Charge Description** link.

The **Transaction** page appears.

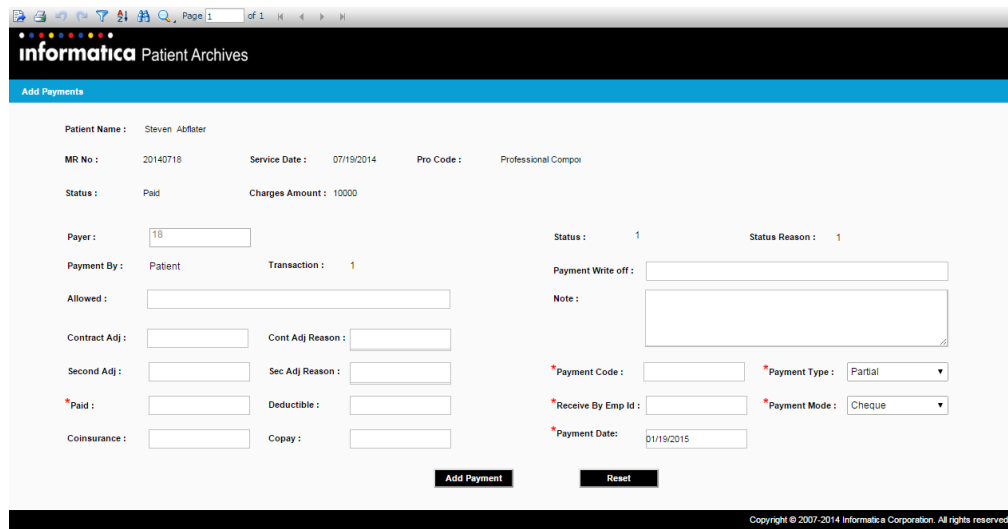
Transaction	Date & Time	Description	Amount	Total Balance
Billed	07/21/2014 12:00:00 AM	Bill	\$10,000.00	\$1,000.00
Billed	07/21/2014 12:00:00 AM	Bill	\$10,000.00	\$1,000.00

- To select the transaction that you want to apply the payment to, click the **Transaction** link next to the correct transaction.

The **Details** page appears.

- From the menus, select the transaction type, the status, and the status reason.
- Click **Apply**.

The **Add Payments** page appears.



9. Enter the required payment details.
10. Click **Add Payment**.
A dialog box appears to tell you that you will be redirected to the **Monitor Jobs** page, where you can monitor the status of the job that updates the patient account information.
11. Click **OK**.
For more information about monitoring jobs, see the *Informatica Data Archive User Guide*.

Adding a Payment Submitted by an Insurance Provider or Plan to a Patient Account

To add a payment submitted by an insurance provider or plan to a patient account, run the Accounts Receivable Details report and find the correct invoice.

1. Click **Data Visualization > Patient Archives**.
You might receive a prompt to select the archive folder where the healthcare application was retired. If you do not know the name of the application archive folder, contact a Data Archive administrator. If you do know the name of the archive folder, select it and click **OK**.
The Patient Archives landing page appears.
2. Click the **A/R Details** icon.
The **A/R Insurance** page appears.
3. To select the type of payment, click the button next to **Provider** or **Insurance**.
4. Optionally, select filters to limit the number of patient records the search returns.
5. Optionally, select the check box next to any columns that you want to hide on the report.

The **Transaction** page appears.

9. In the Transaction column, click the **Billed** or **Adjustment** link.

The **Details** page appears.

The screenshot shows the 'Transaction > Details' page in the Informatica Patient Archives system. The page header includes the Informatica logo and 'Patient Archives'. Below the header, there is a breadcrumb trail: 'Add Payment / Service Associated > Transaction > Details'. The main content area displays patient information: Patient Name: John M Smith, MR No: 2013081, Service Date: 09/30/2013, Pro Code: Return to the Oper, Charge Amount: 12000, Balance: 0. Below this, it shows 'Paid: 12000', 'Date & Time: 08/01/2013 12:00:00', 'Amount: 12000', and 'Trans Balance: 0'. The payer is listed as 'BlueShield of Northeastern New York - Gold Standard-26-OFF'. There are dropdown menus for 'Payment By: Insurance', 'Status: None', 'Transaction: Billed', and 'Status Reason: None'. An 'Apply' button is at the bottom right.

10. Optionally, select a status and status reason from the menus and click **Apply**.

The **Add Payments** page appears.

The screenshot shows the 'Add Payments' page in the Informatica Patient Archives system. The page header includes the Informatica logo and 'Patient Archives'. Below the header, there is a breadcrumb trail: 'Add Payments'. The main content area displays patient information: Patient Name: John M Smith, MR No: 2013081, Service Date: 09/30/2013, Pro Code: Return to the Oper, Status: Paid, Charges Amount: 12000. There are input fields for 'Payer: 3', 'Status: 1', and 'Status Reason: 1'. There are also fields for 'Payment Write off:', 'Note:', 'Contract Adj:', 'Cont Adj Reason:', 'Second Adj:', 'Sec Adj Reason:', '*Paid:', 'Deductible:', 'Coinsurance:', 'Copay:', '*Payment Code:', '*Payment Type: Partial', '*Receive By Emp Id:', '*Payment Mode: Cheque', and '*Payment Date: 01/28/2015'. There are 'Add Payment' and 'Reset' buttons at the bottom right.

11. Enter the required payment information and click **Add Payment**.

A dialog box appears to tell you that you will be redirected to the Monitor Jobs page, where you can monitor the status of the job that updates the patient account information.

12. Click **OK**.

For more information about monitoring jobs, see the *Informatica Data Archive User Guide*.

Adding Multiple Payments to Patient Accounts

To add multiple payments to one or more patient accounts, submit a CSV data file that contains the payment information. You must correctly format the file for the update to complete successfully. If you are unsure how to format the CSV data file, contact a Data Archive Administrator.

1. **Note:** You cannot use the Microsoft Internet Explorer browser to submit the CSV data file.

Click **Data Visualization > Patient Archives**.

You might receive a prompt to select the archive folder where the healthcare application was retired. If you do not know the name of the application archive folder, contact a Data Archive administrator. If you do know the name of the archive folder, select it and click **OK**.

The Patient Archives landing page appears.

2. Click the **A/R Burndown** icon.

The **Bulk Upload** page appears.

3. Click **Upload** and select the CSV file that you created.

4. Click **Submit**.

The job submits the CSV file for processing and opens the **Monitor Jobs** page, where you can monitor the job status.

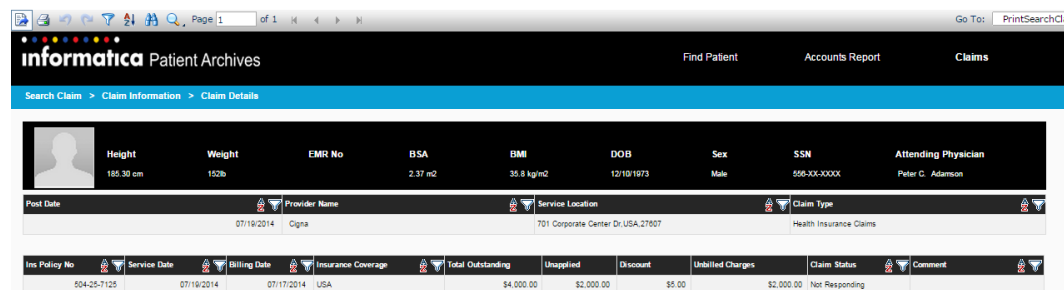
Claim Reports

You can search by patient name to view an individual claim report, or you can generate a list of all claim reports within a specified time period.

Claim reports contain information about an insurance claim, which is a request asking an insurance company for a payment. Each claim report contains details about an individual claim, such as the insurance provider and policy number, the claim status, and the service date.

You can view a claim report by searching for the patient name. When you search for the patient, you can optionally include the claim status as a part of the search criteria. If you include the claim status in the search criteria, the search returns only claims with a certain status. You can also export or print the report.

The following image shows an example of a claim report:



informatica Patient Archives									
Find Patient Accounts Report Claims									
Search Claim > Claim Information > Claim Details									
	Height	Weight	EMR No	BSA	BMI	DOB	Sex	SSN	Attending Physician
	165.30 cm	152lb		2.37 m2	35.8 kg/m2	12/19/1973	Male	550-XX-XXXX	Peter C. Adamson
Post Date	Provider Name		Service Location		Claim Type				
07/19/2014	Cigna		701 Corporate Center Dr. USA, 27007		Health Insurance Claims				
Ins Policy No	Service Date	Billing Date	Insurance Coverage	Total Outstanding	Unapplied	Discount	Unbilled Charges	Claim Status	Comment
504-25-7125	07/19/2014	07/17/2014	USA	\$4,000.00	\$2,000.00	\$5.00	\$2,000.00	Not Responding	

You can also generate a report that lists all of the claims in the system within a specified time period. You can include the provider name, patient name, claim type, or claim status in your search criteria so that the search returns certain claims. You cannot view the individual claims in the report, only the basic details provided in the list, so this report is suitable for printing.

The following image shows an example of a report with multiple claims listed within a specified time period:

informatica Patient Archives

Print Claim > Print Claim Information

Post Date	Provider Name	Serv Location	Patient Name	Claim Type	Policy No	Serv Date	Bill Date	Coverage	Outstd	Unsuppld	Discount	Unbltd	Status	Comments
01/08/2014	Independent Health	511 Farber Lakes Dr, USA, 14221	Arnold, Vlechers	Health Insurance Claims	813-31-6901	01/01/2014	11/25/2013	USA	\$850.00	\$2,200.00	\$5.00	\$850.00	Pending	
12/01/2014	Independent Health	511 Farber Lakes Dr, USA, 14221	Arnold, Vlechers	Health Insurance Claims	805-26-1239	11/24/2014	11/25/2013	USA	\$850.00	\$2,200.00	\$5.00	\$850.00	Not Responding	
12/02/2014	Independent Health	511 Farber Lakes Dr, USA, 14221	Arnold, Vlechers	Health Insurance Claims	805-26-1239	11/24/2014	11/25/2013	USA	\$850.00	\$2,200.00	\$5.00	\$850.00	Pending	Coding and Billing Malpractices Leading to Medical Audits
12/03/2014	Independent Health	511 Farber Lakes Dr, USA, 14221	Arnold, Vlechers	Health Insurance Claims	805-26-1239	11/24/2014	11/25/2013	USA	\$850.00	\$2,200.00	\$5.00	\$850.00	Accepted	
10/07/2013	BlueShield of Northeastern New York	2001 N Bogus Basin Rd, USA, 83702	John M Smith	Health Insurance Claims	415-63-6300	09/30/2013	03/29/2014	USA	\$0.00	\$0.00	\$5.00	\$0.00	Accepted	
07/03/2014	Coventry Health Care of North Carolina	10415 One Norman Blvd, USA, 28031	Jonathan Parker	Health Insurance Claims	415-63-5432	06/26/2014	04/28/2014	USA	\$20,000.00	\$0.00	\$5.00	\$0.00	Not Responding	
07/04/2014	Coventry Health Care of North Carolina	10415 One Norman Blvd, USA, 28031	Jonathan Parker	Health Insurance Claims	415-63-5432	06/26/2014	04/28/2014	USA	\$20,000.00	\$0.00	\$5.00	\$0.00	Pending	Coding and Billing Malpractices Leading to Medical Audits

Copyright © 2007-2014 Informatica Corporation. All rights reserved.

Running Claim Reports

To run a claim report, choose the type of report that you want to run and search by either the patient name or a specified time period.

1. Click **Data Visualization > Patient Archives**.

You might receive a prompt to select the archive folder where the healthcare application was retired. If you do not know the name of the application archive folder, contact a Data Archive administrator. If you do know the name of the archive folder, select it and click **OK**.

The **Patient Archives** landing page appears.

2. Click the **Claims** icon.

The **Search Claim** page appears.

3. Choose the type of claim report that you want to run.

- To run an individual claim report, enter the patient name in the Patient Name field. Optionally, select a claim status from the menu. Then click **Apply**.
- To run a claim report that lists all of the claims within a specified time period, select the **Print Claim** tab. On the **Print Claim** page, enter the dates of the claim search window. Optionally, select one or more search filters from the menu. Click **Apply**.

4. Optionally, print or export the report by clicking the **Print** or **Export** buttons at the top of the report.

CHAPTER 5

Patient Information Reports

This chapter includes the following topics:

- [Patient Information Reports Overview, 41](#)
- [Patient Information Report Types, 41](#)
- [Running a Patient Information Report, 43](#)
- [Release of Information Form, 45](#)
- [Submitting the Release of Information Form, 46](#)

Patient Information Reports Overview

Patient information reports contain medical information about a patient, such as lab results, allergies, and pharmaceutical orders. To run a patient information report, access the Patient Archives in the Data Visualization portal.

You can view a patient information report by searching for the patient's name. Or, you can search by other criteria, such as the medical record number or the patient date of birth. After you find the patient that you want to run a report on, select the type of report that you want to run. Each report type might contain multiple reports listed by the date that the patient received medical attention.

After you run the report, you can print or export the report in multiple file formats.

Patient Information Report Types

You can run multiple types of patient information reports.

The following table describes the types of patient information reports that you can run:

Report Name	Description
Vitals	Contains information about vital signs, such as blood pressure, respirations, and pulse.
Microbiology	Contains information about microbiology, such as culture tests and results.
Radiology	Contains information about radiology, such as CT exams and images.

Report Name	Description
Medication	Contains information about prescribed medications, such as medicine name and prescribed dose.
Orders	Contains information about drug orders, such as the order details and provider.
Blood Bank	Contains information about blood tests and transfusions.
Charges	Contains information about charges to a patient account, including the charge description, code, and amount.
Payment	Contains information about payments made to a patient account, including a description, code, and status.
Physician Note	Contains information about physician notes, such as event reports and discharge summaries.
Nursing Note	Contains information about nursing notes, such as changes in condition or discharge assessments.
Intake Output	Contains information about intakes and output, such as oral fluid intake.
Clinical Doc	Contains information about clinical documents, such as diagnosis history and immunization history.
Pathology	Contains information about pathology test results and ranges.
Plan of Care	Contains information about the physician's plan of care for the patient, including details and instructions.
Patient Alert	Contains information about patient alerts, such as a description of the alert and alert status.
Emergency Contact	Contains information about the patient's emergency contacts, such as their name and phone number.
Document	Contains information about medical record documents, including the document text and comments.
Transcription Doc	Contains information about transcription documents, including details and remarks.
Allergy	Contains information about allergies, including the allergy name, reaction, and severity.
Immunization	Contains information about immunizations, including the vaccine name and date administered.
Lab Result	Contains information about lab results, including the lab test name, values, and remarks.
ADT	Contains information about when and where the patient has been admitted, discharged, or transferred.
List of Problems	Contains information about noted problems, including the problem details, resolution, and comments.

Report Name	Description
Nursing Assessment	Contains information about nursing assessments, including the assessment date and details.
MRA	Contains information about medication administered, including the medication name and the date and time it was administered.
Pharmacy Order	Contains information about pharmacy orders, including the prescribing physician, order date, order details, and drug name.
Intervention	Contains information about interventions, including the physician name, intervention name and type, and intervention questions.

Running a Patient Information Report

To run a patient report, search for an individual patient and select the type of report that you want to run.

1. In the Data Archive user interface, click **Data Visualization > Patient Archives**.

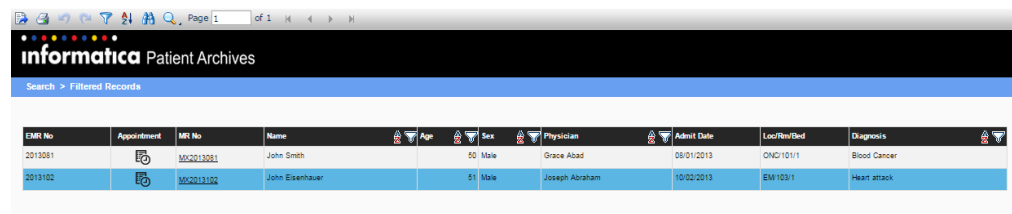
You might receive a prompt to select the archive folder where the healthcare application was retired. If you do not know the name of the application archive folder, contact the Data Archive administrator. If you do know the name of the archive folder, select it and click **OK**.

2. Click the **Patient Search** icon.

The **Search** page appears.

3. Enter all or part of a name in the Patient Search field and click **Apply**. Alternatively, click **Advanced Search** to search by other criteria such as patient date of birth and medical record number.

The **Filtered Records** page appears.



EMR No	Appointment	MR No	Name	Age	Sex	Physician	Admit Date	Loc/Room/Bed	Diagnosis
2013081		M00013081	John Smith	50	Male	Grace Abadi	08/01/2013	ONC1011	Blood Cancer
2013102		M00013100	John Eisenhower	51	Male	Joseph Abraham	10/02/2013	EM1031	Heart attack

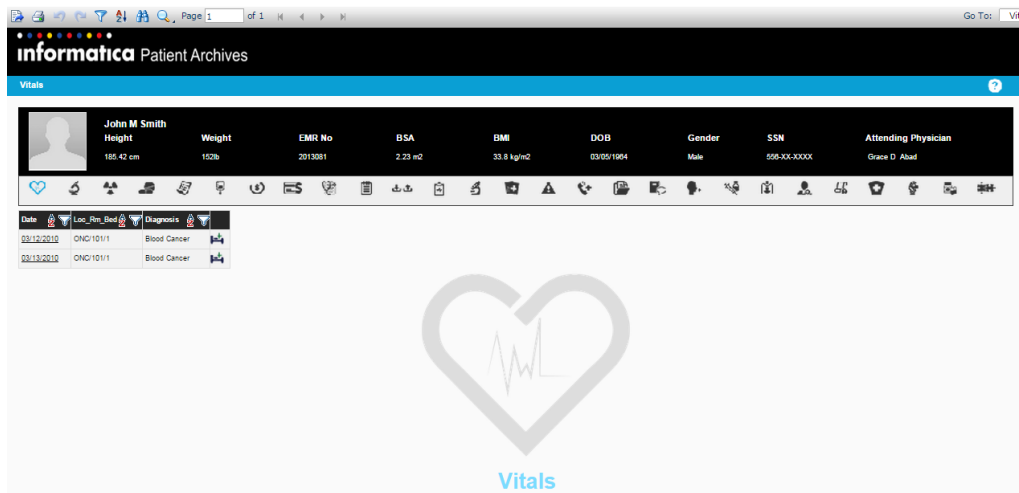
4. From the list of search results, click the **MR No** link next to the patient's name.

The **Patient Information** page appears.

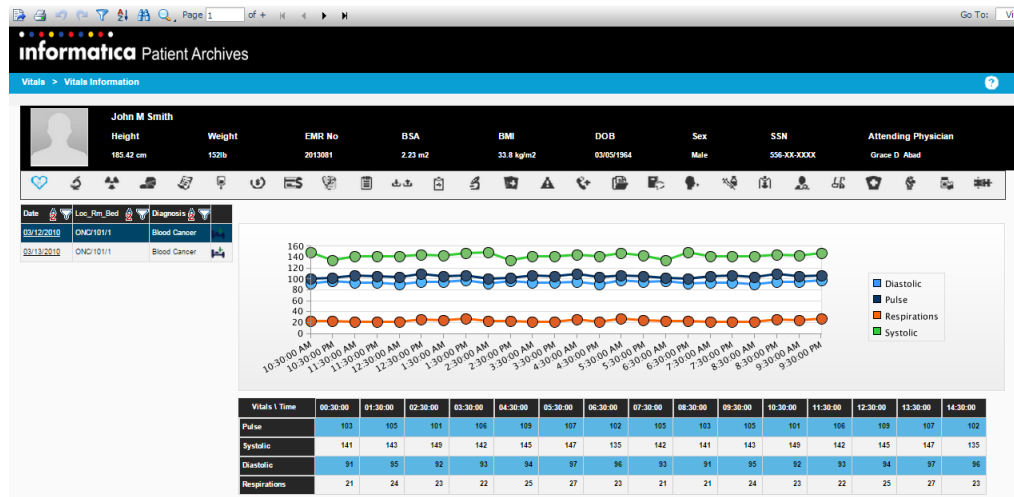


- To view a report type, click a report icon at the top of the page. For example, to view all Vitals reports for a patient, click the **Vitals** icon.

The report landing page appears.



6. To select an individual report, click the link in the Date column.
The report opens in another window.



To export or print the report, click the **Export** or **Print** icons at the top of the window.

Release of Information Form

The release of information form allows you to request specific patient information reports bundled together in a .zip file and available for download in .pdf format.

You might download these reports for a patient or client who wants a record of their medical history. Or, you might download these reports to send to another clinic or facility at the request of the patient or client.

You can access the Release of Information form from the **Data Visualization** menu in Data Archive. Before you can access the form, you must have the Healthcare Information Management User role assigned to your login username. You must also have access to the retired healthcare application. To acquire this access, contact your administrator.

Submitting the Release of Information Form

The landing page for the release of information form is a **Patient Search** page. From this page you can enter search parameters, such as the name of the patient, their date of birth, or their medical record number. The search spans all retired healthcare systems to find all of the patient information reports for a specific person.

1. Enter at least one search criteria on the search page and then click **Submit**.

The form is titled "Patient Search" and contains several input fields arranged in a grid. The fields are: First Name, Middle Name, Last Name, Date of Birth (MM/DD/YYYY), Medical Record Number, Phone Number, Email, Zipcode, and SSN. A "Search" button is located at the bottom right of the form.

The search results page lists all of the records matching the search criteria across all of the applications for which indexed data is available. For each search result, you have the option to either view the patient information reports, or submit the release of information form.

The screenshot shows the "Patient Search" results page. At the top, it says "Found 6 records." Below this is a table with the following columns: MRNO, FIRST NAME, MIDDLE NAME, LAST NAME, AGE, GENDER, DOB, EMAIL, PHONE, MARITAL S., EMR, SSN, ZIPCODE, REPORT, and ROI. The table contains 6 rows of patient data.

MRNO	FIRST NAME	MIDDLE NAME	LAST NAME	AGE	GENDER	DOB	EMAIL	PHONE	MARITAL S.	EMR	SSN	ZIPCODE	REPORT	ROI
20150501	John	M	Smith	50	Male	3/5/1964 0:00	john.smith07@	3093972927	Married	Meditech-TX	367-25-234	85705	Report	ROI
20150601	Jennifer	NULL	Davis	32	Female	5/10/1983 3:00	jenniferdavis@	6395134470	Married	Meditech-TX	376-34-280	98104	Report	ROI
20150601	Jennifer	NULL	Davis	32	Female	5/10/1983 3:00	jenniferdavis@	6395134470	Married	Meditech-CA	376-34-280	98104	-	-
20150601	Jennifer	NULL	Davis	32	Female	5/10/1983 3:00	jenniferdavis@	6395134470	Married	Cerner-HQ	376-34-280	98104	-	-
20150501	John	M	Smith	50	Male	10/27/1990 1:00	john.smith07@	3093972927	Married	Meditech-CA	367-25-234	85705	-	-
20150501	John	M	Smith	50	Male	10/27/1990 1:00	john.smith07@	3093972927	Married	Cerner-HQ	367-25-234	85705	-	-

2. To view the patient information reports, click the **Report** link in the **Report** column of the search results. Clicking this link opens the **Patient Information** home page in the Patient Archives, where you can view all available patient information reports for the selected patient.
3. To open the release of information input form and select the reports that you want to export in bundled .pdf format, click the **ROI** link in the **ROI** column of the search results. Clicking this link opens the release of information input form.

Note: The **ROI** and **Report** hyperlinks are not available in the search results for applications on which you do not have permissions. If you do not have access to specific application, the search results display empty table cells under the ROI and Report columns for that particular application.

The table shows patient records with columns for SSN, ZIPCODE, REPORT, and ROI. The first row shows a patient with SSN 367-25-234 and ZIPCODE 85705, with links to "Report" and "ROI". The second and third rows show the same patient with dashes in the REPORT and ROI columns, indicating no permissions.

SSN	ZIPCODE	REPORT	ROI
367-25-234	85705	Report	ROI
367-25-234	85705	-	-
367-25-234	85705	-	-

4. Input the required parameters for the Release of Information form: date from, date to, requested by, and reason for request.
5. Select the check box next to each report that you want to export to a downloadable .zip file.

- Click **Submit**.

Release Of Information Form

EMR System: Meditech-TX
Patient Name: John Smith
Email: john.smith07@gmail.com
Phone: 3093972927

Created By: AMADMIN
Date: 7/11/2016

Encounter Date From* (MM/DD/YYYY)
07/12/2016

Date To* (MM/DD/YYYY)
07/15/2016

Requested By*
John Smith

Reason for Request*
New doctor's office

☐ Reports to Include (* Select at least one report)

☒ Vitals
☐ BloodBank
☐ Intake Output
☒ Patient Alert
☒ Lab Result
☐ Intervention

☐ Microbiology
☐ Charges
☐ Document
☒ Emergency Contact
☐ Admit-Discharge-Transfer
☐ List of Problem

☐ Radiology
☐ Payment
☐ Clinical Document
☐ Transcription Document
☐ Nursing Assessment

☒ Medication
☒ Physician Note
☐ Pathology
☐ Allergy
☐ Medication Admin Record

☐ Orders
☐ Nursing Note
☒ Plan Of Care
☒ Immunization
☐ Pharmacy Order

Submit Cancel

After you submit the release of information form, Data Archive schedules an export job. You can see the status of the job on the **Requests** page.

- To access the **Requests** page, click the Requests icon in the upper-right corner of the search results.



CODE	REPORT	ROI
705	Report	ROI
104	Report	ROI
104	-	-

By default, the **Requests** page shows export jobs run by the current logged in user only. If you need to see export jobs run by other users, you can change the page filters.

- To see all jobs run by all users, click the **X** icon next to your user name at the top of the page.

The export jobs are listed on the **Requests** page based on the filter criteria. Each export job has one link to download the exported reports, which are in .zip file format.

9. To download the .zip file, click the **View Exported Data** link in the **View Exported Data** column. Only users with the Healthcare Information Management User role and access to a specific application can see the download link. The download link is not visible if the report has expired.

Status	Start Date	Completion Date	View Exported Data
Completed	6/20/2016 3:46:05 PM	6/20/2016 3:46:35 PM	View Exported Data
Completed	6/20/2016 3:40:54 PM	6/20/2016 3:41:24 PM	View Exported Data
Completed	6/20/2016 3:31:05 PM	6/20/2016 3:32:47 PM	View Exported Data
Completed	6/16/2016 2:00:35 PM	6/16/2016 2:00:36 PM	-
Completed	6/16/2016 1:52:37 PM	6/16/2016 1:52:39 PM	-
Completed	6/16/2016 11:50:50 A..	6/16/2016 11:51:37 A..	-
Completed	6/16/2016 11:50:49 A..	6/16/2016 11:51:37 A..	-
Completed	6/16/2016 11:50:49 A..	6/16/2016 11:51:37 A..	-
Completed	6/15/2016 4:21:15 PM	6/15/2016 4:34:44 PM	-

The exported reports are available for a fixed number of days (default is two). You can configure this time period in the system properties.

10. To change the report expiration dates, click **Administration > System Profile**. If you do not have access to the **Administration** menu, contact your administrator.
11. Click the **Data Discovery Portal** tab and then change the value of the **Export Report Expiration Days** field. The **View Exported Data** link will be disabled on the **Requests** page when the reports expire.

[Home](#)
[Accelerators](#)
[Workbench](#)
[Administration](#)
[Jobs](#)
[Data Discovery](#)
[Data Visualization](#)
[Help](#)

Configuration Settings

General

Profiling and Discovery

Data Discovery Portal

Design Object Repository

Security

Data Visualization

Date Format for Search Results

Date Format for Search Criteria

Default Maximum Number of Records in Results

Export Report Expiration Days