

iWay

Omni-HealthData™ Release Notes

Version 3.11

Active Technologies, EDA, EDA/SQL, FIDEL, FOCUS, Information Builders, the Information Builders logo, iWay, iWay Software, Parlay, PC/FOCUS, RStat, Table Talk, Web390, WebFOCUS, WebFOCUS Active Technologies, and WebFOCUS Magnify are registered trademarks, and DataMigrator and Hyperstage are trademarks of Information Builders, Inc.

Adobe, the Adobe logo, Acrobat, Adobe Reader, Flash, Adobe Flash Builder, Flex, and PostScript are either registered trademarks or trademarks of Adobe Systems Incorporated in the United States and/or other countries.

Due to the nature of this material, this document refers to numerous hardware and software products by their trademarks. In most, if not all cases, these designations are claimed as trademarks or registered trademarks by their respective companies. It is not this publisher's intent to use any of these names generically. The reader is therefore cautioned to investigate all claimed trademark rights before using any of these names other than to refer to the product described.

Copyright © 2020, by Information Builders, Inc. and iWay Software. All rights reserved. Patent Pending. This manual, or parts thereof, may not be reproduced in any form without the written permission of Information Builders, Inc.

Contents

1. Omni-HealthData™ Version 3.11	5
New Features	6
Installation and Upgrade Enhancements.....	6
Operation and Monitoring Enhancements.....	7
Performance and Throughput Enhancements.....	10
Installation Considerations	11
UTF-8 Character Support.....	12
Known Issue	12
Related Technical Content	12
Customer Support	13
2. Omni-HealthData™ Version 3.11 Cumulative Patch #1	15
Key Features and Fixes	15
Completing the Patch Installation	17
Customer Support	19
3. Patch Feature Details	21
Ramp Quality Gate	21
Enable Quality Gate Runtime Configuration.....	23
Blocked Work Order Status	23
Batch Split	25
Configurable Options for Better MPP Support	25
Customer Support	26
A. Resolved Cases	27
Resolved Cases for Version 3.11 Cumulative Patch #1	27
Resolved Cases for Version 3.11	28

Omni-HealthData™ Version 3.11

Information Builders is excited to introduce Omni-HealthData™ version 3.11, the most flexible and performant version to date of its comprehensive healthcare data management platform.

Information Builders healthcare applications allow provider and payer organizations to acquire, manage, and analyze their information more effectively using business intelligence, analytics, data integration, data quality, and master data management technologies. While the underlying architecture is the same, Omni-HealthData™ is offered in two editions, the Payer Edition and the Provider Edition, in order to address the consumption nuances of each space.

In the shift to value-based healthcare, **Omni-HealthData™ Payer Edition** enables health insurers to get a 360-degree view of every member. Payers can onboard clinical data from hospitals, doctors, and community care organizations, and unify it with claims and operational data from internal sources, while optimizing the consistency, completeness, and accuracy of that information, making it available to stakeholders a more consumable manner.

Omni-HealthData™ Provider Edition is an information management solution that gives providers a 360-degree view of patients, providers, payers, workforce, facilities, and other critical healthcare domains. This single application simplifies complex data integration, promotes data quality, and facilitates ongoing data governance to ensure sustainability. Providers can then analyze diagnoses, treatments, and outcomes across the entire healthcare continuum.

In this chapter:

- ☐ [New Features](#)
 - ☐ [Installation Considerations](#)
 - ☐ [Known Issue](#)
 - ☐ [Related Technical Content](#)
 - ☐ [Customer Support](#)
-

New Features

The main focus of Omni-HealthData™ version 3.11 is to make major advancements in the overall user experience from both an installation and operations perspective, while improving both the speed and flexibility of processing throughput from on-ramps to the consumption layer.

These Omni-HealthData™ version 3.11 new features are categorized below.

Installation and Upgrade Enhancements

The following are installation and upgrade enhancements:

- ❑ **More Streamlined Installation and Startup.** Formerly separate Omni-HealthData Server and Governance Console installations have been combined into one installation to reduce the volume of manual steps, and streamline the installation process.

Omni-HealthData Governance Console services have been implemented as a Managed Service in the Omni Console, making startup as easy as a click of a button.

For more details, see the *Omni-HealthData™ Installer User's Guide*.

- ❑ **Additional Bundle Deployment Options.** In addition to the *Update Bundle* functionality in prior releases, the following options have been added:

- ❑ **Update Data Model.** Enables you to upgrade the model without affecting the already deployed Data Quality Plans, making it easier to implement data model changes provided in subsequent releases of Omni-HealthData™.

- ❑ **Update Data Quality Plans.** Enables you to upgrade the Data Quality plans without affecting the already deployed Data Model, making it easier to deploy incremental customer-specific Data Quality plan changes.

For more details, see the *Omni Console User's Guide* or Omni Console Help.

- ❑ **New Deployment History Option.** Enables you to see your prior Deployment History at a glance, with the following new features available for each Deployment.
- ❑ **Current Deployment.** Enables you to download the currently Deployed Data Model and Data Quality Plans as a Deployment Bundle, for ease of propagation to other environments.
- ❑ **Deployment Bundle.** Enables you to download the Bundle that was used to affect a specific *Update Bundle*, *Update Data Model*, or *Update Data Quality Plans* operation.

For more details, see the *Omni Console User's Guide* or Omni Console Help.

- ❑ **Subject Model Updates.** The following Subjects were either added or enhanced:

New Subjects

- ❑ ADTEvent
- ❑ MammogramEvent

Updated Subjects

- ❑ **PayerClaim.** Addition of multiple data elements in PayerClaim to cover more data elements of the HIPAA 837 transaction.
- ❑ **MemberEligibility.** Addition of TailoredPlanEligibilityCode and ManagedCareStatusCode.
- ❑ **Patient/PatientMaster.** Addition of the TribalCitizenship code list.

Note: Patient Merge Rules will need to be updated to define the handling for this new code list, if desired.

- ❑ **Member/MemberMaster.** Addition of the TribalCitizenship code list.

Note: Member Merge Rules will need to be updated to define the handling for this new code list, if desired.

- ❑ **AHRQQualityIndicatorToolOutput.** AHRQComorbidityClassification sub-collection added.

- ❑ **Custom Subject Extension.** The flexible and extensive OHD Data Model is constructed with industry standards such as FHIR, HL-7, CCD, and HIPAA, as well as interoperability with ERP, EHR, and other internal systems in mind. While it covers most usage scenarios, there can be customer-specific data elements that are important to a given customer implementation that may not carry to other customers. The Custom Subject Extension feature enables you to extend the OHD Data Model with additional data elements that will be preserved even during subsequent product-driven Subject Model updates.

For more details, see the *How to Add a Custom Subject Extension* topic in the *Omni-HealthData™ Integration Services User's Guide*.

Operation and Monitoring Enhancements

The following are operation and monitoring enhancements:

- ❑ **Data Quality Pre-Checks.** Helps protect the integrator from introducing downstream processing failures through simple data integration validations, such as:
 - ❑ Trimming leading and trailing characters <= 0x20 from data elements that participate in the construction of <subject>_id columns.

- ❑ Replacing ":" or embedded whitespace characters in data elements that participate in the construction of <subject>_id columns.
- ❑ In addition to the existing null check, ensuring that the batch_id on os_ramp_control is not an empty string.
- ❑ **Improved System Menu Organization.** Enables the operational user to more easily obtain detailed processing feedback through the console.
 - ❑ Organization of the *System Logs* by Managed Service for ease of navigation.
 - ❑ Introducing the new *System Messages* and *System Codes* sections, which provide detailed INFO, WARN, or ERROR messages about events that occur during processing.

For more details, see the *Omni Console User's Guide* or *Omni Console Help*.

- ❑ **New Operations Menu.** Provides diagnostic and system information about the inner workings of the Omni-HealthData™ environment and its applications.
 - ❑ **System Information.** Provides basic information about the host disk space, memory, database connections, and JVM.
 - ❑ **Dependency Manifests.** Provides a detailed list of all Java dependencies that are packaged with Omni-HealthData™.
 - ❑ **System Diagnostics.** Enables you to generate and download a diagnostic zip to share with the product support team.
 - ❑ **Threads.** Provides a detailed list of threads related to the target JVM for a selected Managed Service.
 - ❑ **Network.** Provides an overview of the network interfaces (real or virtual) for the host. The information is gathered using a native system command, such as ifconfig (Linux), or ipconfig (Windows).
 - ❑ **Remediation Summary.** Provides the status of Remediation Tickets, residing in the omni_remediation_ticket table.
 - ❑ **Database Activity.** This tab provides a quick glance at the ten slowest, and the ten most recent queries that are currently running, for debugging purposes.
 - ❑ **Certificate.** Provides detailed information about the TLS/SSL certificate used to secure HTTPS connections across the Omni-HealthData™ system.

For more details, see the *Omni Console User's Guide* or *Omni Console Help*.

- ❑ **New Data Purge.** During the course of on-going incremental processing, instances, masters, and their children can be marked for *soft-delete* from the system. This feature enables you to schedule the automatic physical deletion of stale *soft-deleted* records from the system on a configurable interval.

For more details, see the *Purging Inactive Data* topic in the *Omni-HealthData™ Operation and Management User's Guide*.

- ❑ **New Reset Environment Option.** This new drop-down option on the Deployment screen, enables you to re-initialize all tables in your environment at the click of a button for ease of reload during development or test.

- ❑ **Model and System Tables.** Truncates all application tables, allowing you to start fresh in a Development or Test environment, as if you had just deployed your bundle for the first time.

- ❑ **Model Tables.** This option truncates all model-related tables, and leaves system tables intact.

For more details, see the *Omni Console User's Guide* or Omni Console Help.

- ❑ **New Reset Subject Option.** Mirroring the functionality of the *Model Tables* option of *Reset Environment*, the *Reset Subject* button on the Deployment screen provides more granular control for you to reset a single subject at the click of a button, purging ramp, source, instance, history, and master tables, as appropriate just for the selected subject.

For more details, see the *Omni Console User's Guide* or Omni Console Help.

- ❑ **New Subject Workflow Management.** This fine-grained processing control option on the Deployment screen enables you to suspend certain work order items, such as Match, Merge, Remediation, CDC publishing, or History, while iterating during early development phases. It additionally enables you to choose whether mastering occurs sequentially or in parallel, as further outlined in [Performance and Throughput Enhancements](#) on page 10.

For more details, see the *Omni Console User's Guide* or Omni Console Help.

- ❑ **New Dispatcher and Debug Toggles for Work Orders.** Enables you to Pause the dispatcher to temporarily suspend processing or enable single-step Debug processing to occur. During Debug processing, the system pauses after each Work Order Item in Development or Test to identify any data-related processing anomalies that may occur.

For more details, see the *Omni Console User's Guide* or Omni Console Help.

- ❑ **Expanded Omni-Gen Services.** Omni-HealthData™ is designed with a micro-services approach and enables many of its functions to be accessible through APIs. This enables other applications to seamlessly integrate with Omni-HealthData™ services using the industry standard approach.

For more information, see the *Omni-HealthData™ API Services Reference Guide*.

- ❑ **Section 508 Accessibility Improvements.** Upgraded underlying third-party software components, supporting Section 508 Accessibility improvements in the Omni-HealthData Governance Console.

Performance and Throughput Enhancements

The following are performance and throughput enhancements:

- ❑ **Expanded On-Ramp Processing Options.** In order to meet tighter processing windows for large volumes of data, several new processing options have been added that optimize the configuration of `os_ramp_control`:

- ❑ **`batch_type = INSERT_ONLY`.** Omni processing is optimized to skip internal Change Data Capture processes to facilitate large initial loads, assuming direct inserts.

- ❑ **`data_transfer_mode = NATIVE_SQL`.** A performance optimization that shifts internal processing to the Database Server for significantly large batches.

Note: In version 3.11, the *Native SQL* processing option is only supported with Microsoft SQL Server and PostgreSQL.

- ❑ **`change_detection = IGNORE`.** Standard work order processing is performance-optimized to skip steps of the Work Order when the parent and child records of the instance have not been changed.

This option forces the Omni-HealthData Server to bypass this optimization, and is generally used as a recovery step in the event that an error occurs during processing of a given batch.

It ensures that all instances in the ramp batch propagate to instance and quality operations, even if they have not changed.

Important: For key updates on using the new *os_ramp_control* options, while converting from the older, deprecated *os_ramp_control* options, see the *Omni-HealthData™ Integration Services User's Guide*.

- ❑ **New Parallel Processing Option for Non-Mastered Subjects.** In version 3.1, the Omni-HealthData™ dispatcher service was gated at processing no more than one Work Order for each Subject at a time. This was essential for Mastered Subject workflows, and was similarly adopted for non-Mastered Subjects.

Version 3.11 introduces the ability to process the same Subject from several different sources in parallel by working in concert with partitioning schemes on your DBMS. This feature significantly reduces cycle time for users with multiple sources by distributing the load for larger transactional subjects.

For more information on setting up parallel processing options, see the *Omni-HealthData™ Operation and Management User's Guide*.

- ❑ **New Parallel Processing Option for Mastered Subjects.** By decoupling Mastering processes from Ramp to Instance processing, and allowing you to make a minor configuration setting to execute groups of mastered instances in parallel, overall processing time can be further reduced. Instead of one call to the matching engine for each Work Order, you can now execute the Mastered Instances from multiple sources in parallel, and make a single call to the Matching engine when all are complete.

For more information on setting up parallel processing options, see the *Omni-HealthData™ Operation and Management User's Guide*.

- ❑ **Server Population of the Hashkeys.** Since numeric keys are required for some database technologies that host the HealthViews, Omni-HealthData™ previously relied on a HealthViews function to generate a hash key for every Subject and Child in the model. To improve the overall efficiency of this operation, the Omni-HealthData server will now inherently create the *_id_hk used by HealthViews in a consistent manner for each implementation. This new feature improves the day-to-day processing time of the HealthViews (particularly for larger implementations), and reduces the overall complexity of installation.

Important: During bundle deployment of version 3.11, a one-time script will execute to update all of the _hsh columns throughout the implementation.

Installation Considerations

- ❑ For information on installing a new instance of Omni-HealthData™ version 3.11, see the *Omni-HealthData™ Installer User's Guide*.
- ❑ For information on upgrading an existing Omni-HealthData™ version 3.1.x implementation to Omni-HealthData™ version 3.11, see the *Omni-HealthData™ Upgrade Guide*.

UTF-8 Character Support

This section describes a configuration update you can make during the installation or after the installation (by modifying your database settings in the Omni Console) to enable the usage of UTF-8 characters in Omni-HealthData™ version 3.11.

By default, the installation uses the following JDBC URL format when configuring SQL Server 2016:

```
jdbc:sqlserver://  
hostname:port;datasource=db_name;sendStringParametersAsUnicode=false
```

To enable UTF-8 character support in your Omni-HealthData™ environment, modify the JDBC URL to either of the following:

```
jdbc:sqlserver://  
hostname:port;datasource=db_name;sendStringParametersAsUnicode=true
```

or

```
jdbc:sqlserver://  
hostname:port;datasource=db_name;useUnicode=true;characterEncoding=UTF-8
```

Known Issue

The Native SQL processing option is only supported with Microsoft SQL Server and PostgreSQL.

Related Technical Content

You can learn more about Omni-HealthData™ version 3.11, and view the latest technical content from the [iWay and Omni Information Center](#).

- ☐ [Omni-HealthData™ Installer User's Guide](#)
- ☐ [Omni-HealthData™ Upgrade Guide](#)
- ☐ [Omni Console User's Guide](#)
- ☐ [Omni-HealthData™ Integration Services User's Guide](#)
- ☐ [Omni-HealthData™ Operation and Management User's Guide](#)
- ☐ [Omni-HealthData™ Governance Console User's Guide](#)
- ☐ [Omni-HealthData™ HealthViews User's Guide](#)
- ☐ [Omni-HealthData™ API Services Reference Guide](#)

Customer Support

Do you have questions about Omni-HealthData™?

Join the Focal Point community. Focal Point is our online developer center and more than a message board. It is an interactive network of more than 3,000 developers from almost every profession and industry, collaborating on solutions and sharing tips and techniques, <http://forums.informationbuilders.com/eve/forums>.

You can also access support services electronically, 24 hours a day, with InfoResponse Online. InfoResponse Online is accessible through <https://techsupport.informationbuilders.com>. You can connect to the tracking system and known-problem database at the Information Builders support center. Registered users can open, update, and view the status of cases in the tracking system and read descriptions of reported software issues. New users can register immediately for this service. The technical support section also provides usage techniques, diagnostic tips, and answers to frequently asked questions.

Call Information Builders Customer Support Services (CSS) at (800) 736-6130 or (212) 736-6130. Customer Support Consultants are available Monday through Friday between 8:00A.M. and 8:00P.M. EST to address all your questions. Information Builders consultants can also give you general guidance regarding product capabilities and documentation. Be prepared to provide your six-digit site code (xxxx.xx) when you call.



Chapter 2

Omni-HealthData™ Version 3.11 Cumulative Patch #1

An Omni-HealthData patch is a software deliverable used to apply a specific set of fixes to an existing Omni-HealthData installation. It is an executable .jar file and/or business content which, when run, replace selected components on the target installation. The replaced components are backed up by the patch installation and can be restored by uninstalling the patch.

Omni-HealthData patches are constructed to include content from all prior cumulative patches. This means that you can simply install the most current patch to obtain not only the newly resolved issues, but also any fixes from all prior patches against the Omni-HealthData Release 3.11 certified version of the software.

There may be additional bundle-related steps that must be taken in order to adequately upgrade your environment. These will be outlined in [Completing the Patch Installation](#) on page 17.

The issues addressed by the current patch can be reviewed in [Resolved Cases](#) on page 27.

In this chapter:

- ☐ [Key Features and Fixes](#)
 - ☐ [Completing the Patch Installation](#)
 - ☐ [Customer Support](#)
-

Key Features and Fixes

This topic lists and describes updated features and fixes provided by this patch.

- ☐ **COVID-19 Reference Data Updates.** New ICD-10 updates, as well as pre-release SNOMED CT and LOINC® codes.

For further information and guidance on coding practices, see the following:

- ☐ The American Medical Association (AMA) website for guidance on updating your CPT® codesets and appropriate COVID-19 coding guidelines:

<https://www.ama-assn.org/practice-management/cpt/covid-19-coding-and-guidance>

- ❑ The Centers for Disease Control and Prevention (CDC) website for COVID-19 coding guidelines:
<https://www.cdc.gov/nchs/icd/icd10cm.htm>
- ❑ The Centers for Medicare and Medicaid Services (CMS) website for COVID-19 for HCPCS coding guidelines:
<https://www.cms.gov>
- ❑ The Public Health Information Network Vocabulary Access and Distribution System (PHIN VADS):
<https://phinvads.cdc.gov/vads/SearchVocab.action>
- ❑ The LOINC® website:
<https://loinc.org/sars-coronavirus-2/>
- ❑ SNOMED CT Coronavirus Content:
<https://confluence.ihtsdotools.org/display/snomed/SNOMED%2BCT%2BCoronavirus%2BContent>

- ❑ **Enhanced Ramp Quality Gate.** The Ramp Quality Gate is a new service that allows the operations user to optionally capture and eliminate common data integration issues before they are loaded on the platform. This feature is now enabled for both JPA and NATIVE_SQL DataTransferModes.

For more information on the Ramp Quality Gate, see [Patch Feature Details](#) on page 21.

- ❑ **New Blocked Work Order Status.** The console now provides more information explaining why a work order that is ready to process may be blocked from execution, making it is easier to troubleshoot.

For more information on Blocked Work Order Status, see [Patch Feature Details](#) on page 21.

- ❑ **New Batch Split.** This new processing option allows the user to obtain more regular feedback to the Omni Console when large batches are running in DataTransferMode = NATIVE_SQL, rather than waiting for the entire operation to complete.

For more information on Batch Split, see [Patch Feature Details](#) on page 21.

- ❑ **New Configurable options for better MPP support.** These configurable options allow for index suppression, as well as storage option and distribution specification.

Note: These options are currently only available on Greenplum® data.

For more information on the new configurable options for MPP support, see [Patch Feature Details](#) on page 21.

❑ **Several Model Upgrades.** The following model changes have been added to the deployment bundle, associated with this cumulative patch:

- ❑ **Device.** New subject based on the FHIR Release 3 resources for Device & Device Component.
- ❑ **MemberEligibility.** Added a sub-collection that captures information on managed care entities assigned to a member for a given eligibility.
- ❑ **PatientFallEvent and PatientFallRiskAssessmentEvent.** Minor update to apply standard clinical event data elements.

These changes may be applied by using the Update Data Model option on the Deployment screen of the Omni Console.

- ❑ Other Minor Bug fixes that improve performance and/or user experience.

Completing the Patch Installation

The following topics describe the prerequisites and post-installation activities for installing the Cumulative Patch #1. It also describes how to uninstall the patch.

Procedure: How to Apply Patch Installation Prerequisites

This section describes prerequisite steps before applying the Cumulative Patch #1.

1. Download the Cumulative Patch #1 (omnigen-patch-patch-3.11-cumulative.88.jar) from the Information Builders Technical Support Center at:

<https://techsupport.informationbuilders.com>

2. Ensure no work orders are currently running, and then stop all services and the controller.

For more information, see *How to Stop All Services and the Controller* in the *Omni-HealthData Upgrade Guide*.

3. Backup the *omnigen* home directory.

For more information, see *How to Backup the Omnigen Home Directory* in the *Omni-HealthData Upgrade Guide*.

4. Backup Omni-HealthData databases.

For more information, see *How to Backup Omni-HealthData Databases* in the *Omni-HealthData Upgrade Guide*.

Procedure: How to Install Cumulative Patch #1

To install the Cumulative Patch #1, execute the following command in the directory where you downloaded *omnihealthdata-patch-3.11-cumulative.88.jar*, and follow the prompts:

```
java -jar omnigen-patch-patch-3.11-cumulative.88.jar
```

Procedure: How to Uninstall the Patch

To uninstall the Cumulative Patch #1, execute the following command in the local directory where the patch jar exists, and follow the prompts:

```
java -jar omnigen-patch-patch-3.11-cumulative.88.jar uninstall
```

Procedure: How to Perform Post-Installation Activities

This section describes how to complete post-installation activities for the patch.

1. Enter the following URL in your browser to access the Omni Console:

```
https://yourhost.yourdomain.com:9500
```

For example:

```
https://omnihealthdata.ibi.com:9500
```

Note: You cannot use *localhost* in the URL.

2. Log on using the following credentials:

☐ **Username:** ibi

☐ **Password:** ibi

3. Navigate to the Deployment section of the Omni Console.
4. Deploy the new Data Model that is included with Omni-HealthData™ version 3.11 Cumulative Patch #1 by selecting *Update Data Model* from the Deploy Bundle drop-down list.
5. Browse to the location of the updated deployment bundle file (*omni-healthdata-bundle-3.11.*.zip*), which is located in the following directory:

On Windows platforms:

```
C:\data\omni\product\omnihealthdata\omnigen\OmniGenData\OmniHealthData  
\omni-healthdata-bundle-3.11.*.zip
```

On Linux platforms:

```
/data/omni/product/omnihealthdata/omnigen/OmniGenData/OmniHealthData/  
omni-healthdata-bundle-3.11.*.zip
```

Customer Support

Do you have questions about Omni-HealthData™?

Join the Focal Point community. Focal Point is our online developer center and more than a message board. It is an interactive network of more than 3,000 developers from almost every profession and industry, collaborating on solutions and sharing tips and techniques, <http://forums.informationbuilders.com/eve/forums>.

You can also access support services electronically, 24 hours a day, with InfoResponse Online. InfoResponse Online is accessible through <https://techsupport.informationbuilders.com>. You can connect to the tracking system and known-problem database at the Information Builders support center. Registered users can open, update, and view the status of cases in the tracking system and read descriptions of reported software issues. New users can register immediately for this service. The technical support section also provides usage techniques, diagnostic tips, and answers to frequently asked questions.

Call Information Builders Customer Support Services (CSS) at (800) 736-6130 or (212) 736-6130. Customer Support Consultants are available Monday through Friday between 8:00A.M. and 8:00P.M. EST to address all your questions. Information Builders consultants can also give you general guidance regarding product capabilities and documentation. Be prepared to provide your six-digit site code (xxxx.xx) when you call.

Patch Feature Details

This topic provides more detailed explanations on new or updated features applied by Omni-HealthData™ Version 3.11 Cumulative Patches.

In this chapter:

- ☐ [Ramp Quality Gate](#)
 - ☐ [Blocked Work Order Status](#)
 - ☐ [Batch Split](#)
 - ☐ [Configurable Options for Better MPP Support](#)
 - ☐ [Customer Support](#)
-

Ramp Quality Gate

Introduced: Patch #1

Updated:

The Ramp Quality Gate is a new service that creates a QUALITY_GATE work order, flagging erroneous records in a ramp batch, so they are not included in Omni-HealthData work order processing.

A new column, rec_quality, on the *_r tables captures either an error or a warning status, as detected by the Quality Gate.

The runRampQualityGate service requires the following three parameters, all of which are required:

- ☐ batchId - Ramp batch to process.
- ☐ sourceName - Source within the batch.
- ☐ subject - Name of the Subject.

The following image shows an example of the parameters for Ramp Quality Gate.

PUT

/api/v1/server/runRampQualityGate

Run Ramp Quality Gate

Run quality gate for the ramp batch.

Parameters

Name	Description
batchId * required string (query)	Ramp batch to process. <div>batchId - Ramp batch to process.</div>
sourceName * required string (query)	Source within the batch. <div>sourceName - Source within the batch.</div>
subject * required string (query)	Name of the subject. <div>subject - Name of the subject.</div>

Execute

Responses

Response content type

The QUALITY_GATE work order that results from calling the run RampQualityGate service performs the following operations:

- ☐ Scans all ramp tables of a subject.
- ☐ Generates system warnings for all columns that require trimming of whitespace characters.
- ☐ Generates system errors for columns that contain embedded white spaces or a colon (:).
- ☐ Updates the rec_quality column on the ramp record, with the following values as appropriate:
 - ☐ If the record generated system errors, rec_quality = 'E'.
 - ☐ If the record generated system warnings, rec_quality = 'W'.

The measures of the QUALITY_GATE work order show three values:

- ☐ Number of the records scanned (Processed).
- ☐ Number of the records that did not generate a system error (Results).

This includes corrected warnings and "clean" records.
- ☐ Number of the records that generated a system error (Errors).

When the work order completes, click the *System Messages* menu item on the work order to see the warnings and errors.

After evaluating the results of the QUALITY_GATE, the Operations user may either:

- ☐ Stop, and not process the batch due to the volume of errors.
- ☐ Go ahead and process the batch.
 - ☐ Any records with rec_quality = 'E' are ignored, and not processed.
 - ☐ Any records with rec_quality = 'W' are trimmed and processed.

Note: DataTransferMode = NATIVE_SQL only supports the trimming of spaces. If any other whitespace characters issue a warning, it is strongly recommended that the records be corrected at the source or integration layers before re-processing.

Regardless of their choice, Warnings and Errors should be investigated and corrected either at the source, or in the integration layer that feeds Omni-HealthData.

Enable Quality Gate Runtime Configuration

By setting the *Enable Quality Gate* configuration parameter in the Runtime Configuration screen, you can enable the RAMP_QUALITY_GATE as an implicit work order item for all Subjects.

Valid values for this parameter are:

- ☐ false - do not execute the RAMP_QUALITY_GATE work order item (default).
- ☐ true - execute the RAMP_QUALITY_GATE work order item.

Note: You will have to restart the Omni Server on the Managed Services screen for any parameter change to take effect.

Blocked Work Order Status

Introduced: Patch #1

Updated:

The Omni Console now provides more information explaining why a work order that is ready to process is blocked from execution on the Work Orders screen.

The possible blocked reasons are shown in the following table.

Reason	Description
SUBJECT_RUNNING	Another work order with the same subject is running.

SUBJECT_FAILED	Another work order with the same subject exists in FAILED state.
SUBJECT_PAUSED	Another work order with the same subject exists in PAUSED state.
SINGLETON_RUNNING	A work order defined as singleton is currently executing.
SINGLETON_WAITING	A work order defined as singleton is waiting for execution and appears before this work order in the queue.
MASTERING_PENDING	Work order cannot be executed until mastering is done on the subject.

The following image shows an example of a blocked work order with the SUBJECT_RUNNING explanation.

Source	Status	Result	Reason	Start Date▼
	BLOCKED		Another work order with the same subject exists in a FAILED state. TRANSATION ID = 450b9866-eac3-4648-95a4-50894761c3f5	
	BLOCKED		Another work order with the same subject exists in a FAILED state. TRANSATION ID = af6730ba-4be1-44e1-941b-96471f1d27d8	
TestSource	COMPLETE	FAIL	Exception during Cleansing processing : Not Found for URL http://mattc-OptiPlex-7020.ibi.com:9504/Customer/cleanse?process_id=450b9866-eac3-4648-95a4-50894761c3f5&server_address=mattc-OptiPlex-7020&server_port=9532	2020-01-14 02:53:17.786
TestSource	COMPLETE	IGNORE	Exception during Cleansing processing : Not Found for URL http://mattc-OptiPlex-7020.ibi.com:9504/Customer/cleanse?process_id=584e88ed-140c-487d-9d0d-e1742b1df695&server_address=mattc-OptiPlex-7020&server_port=9532	2020-01-14 02:50:37.389

Batch Split

Introduced: Patch #1

Updated:

The Batch Split feature allows for more optimized database resource usage and for the progress of the load to be visible to the user. If the set of instances in a work order is too large, resource constraints on the database can result in a batch processing slowness or failure.

The *Batch Split Size* setting in the Runtime Configurations section of the Omni Console, gives the Operations user the ability to control the size of the "chunks" that will be executed when processing with `DataTransferMode = NATIVE_SQL`.

By default, this value is set to -1 (no chunking). The user may update the setting to an appropriately-sized volume of rows for their DB configuration, balancing performance and feedback to the console. Depending on the size of the batch, it is generally recommended that you set this value somewhere between 100000-10000000 (although some configurations chunk in larger volumes) to optimize performance against more regular progress feedback to the console. A higher value will process faster, and a lower value will provide more regular feedback to the console.

Note: This option is only applicable for loads of non-mastered subjects, where the `DataTransferMode` is set to `NATIVE_SQL`. The batch must also be bound to a single source.

Configurable Options for Better MPP Support

Introduced: Patch #1

Updated:

For larger volume implementations, inclusion of a massively parallel processing (MPP) database can enhance the performance of your Omni-HealthData solution. Some new settings were added the Database Configuration tabs to support the configuration needs of an architecture that includes an MPP database.

☐ **Database Type.** This setting lets the controller know whether it is dealing with an MPP database during deployment.

Valid values are: *db2*, *mssql*, *oracle*, *postgresql*, or *greenplum*.

When implementing an MPP database, it is required to specify the database type so that tables are created appropriately. It is not required for other RDBMS.

Note: The only current option for specifying an MPP database is *greenplum*. It is expected that configuration support for Amazon Redshift will be added in a subsequent release.

- ❑ **Create Table Suffix.** This setting allows the user to specify any database-specific clauses that can be appended to each CREATE TABLE statement during deployment. Consult your MPP database documentation for proper syntax.

For example, storage parameter designation in greenplum:

```
WITH (APPENDONLY=TRUE, ORIENTATION= COLUMN, COMPRESSTYPE= QUICKLZ,  
      OIDS=FALSE)
```

Customer Support

Do you have questions about Omni-HealthData™?

Join the Focal Point community. Focal Point is our online developer center and more than a message board. It is an interactive network of more than 3,000 developers from almost every profession and industry, collaborating on solutions and sharing tips and techniques, <http://forums.informationbuilders.com/eve/forums>.

You can also access support services electronically, 24 hours a day, with InfoResponse Online. InfoResponse Online is accessible through <https://techsupport.informationbuilders.com>. You can connect to the tracking system and known-problem database at the Information Builders support center. Registered users can open, update, and view the status of cases in the tracking system and read descriptions of reported software issues. New users can register immediately for this service. The technical support section also provides usage techniques, diagnostic tips, and answers to frequently asked questions.

Call Information Builders Customer Support Services (CSS) at (800) 736-6130 or (212) 736-6130. Customer Support Consultants are available Monday through Friday between 8:00A.M. and 8:00P.M. EST to address all your questions. Information Builders consultants can also give you general guidance regarding product capabilities and documentation. Be prepared to provide your six-digit site code (xxxx.xx) when you call.

Resolved Cases

The following appendix lists the features and InfoResponseLive cases (IRNs) that were resolved in Omni-HealthData™ version 3.11.

In this appendix:

- ☐ [Resolved Cases for Version 3.11 Cumulative Patch #1](#)
- ☐ [Resolved Cases for Version 3.11](#)

Resolved Cases for Version 3.11 Cumulative Patch #1

The following table lists the cases that were resolved in Version 3.11 Cumulative Patch #1.

IRN Number	Summary
200129039	OmniController service terminated with service error.
200103076	Console issue when stopping DQ services.
191213093	Match fails with one error.
191007038	Master inactivate step never finishes.
200320064	Configurable parameters for creating distributions and "with" storage options on Greenplum tables.
200401012	Configurable parameter suppressing index creation on Greenplum tables.
190530063	Performance with large OHD tables.

Resolved Cases for Version 3.11

The following table lists the cases that were resolved in Version 3.11.

IRN Number	Summary
180209030	NFR Omni-HealthData™: HLI and Valueset Codes zip file improvements and loading.
190107103	Work orders created/running without batch ID - A blank ramp control.
181030093	Capture cumulative Ramp Quality errors and warnings in System messages.
180209017	NFR Omni-HealthData™: Provide a configurable option in the Console for mastering.
181212031	AutoClose failed with JDBC exception: Too many parameters.
190110090	Console unable to display work order - lost connectivity, out of memory on controller.
181024149	Restarting a work order that failed to update txn ID in ramp to source.
180409027	Handling Source Codes that are not trimmed.
181127143	Issue in Omni Mapping documentation.
190206135	Match tickets not closing when instance data is corrected.
181031073	Reprocess subject fails in cleansing with no instances.
180819007	Non-trimmed SIDs cause mastering errors and failed work orders.
190307030	Security scan causes Java heap.
190107107	NFR Omni-HealthData™: Create a feature that removes inactive records.
190205017	Greenplum bundle fails - ERROR: PRIMARY KEY and DISTRIBUTED RANDOMLY are incompatible.

IRN Number	Summary
181113055	Frequent connection getting closed failing the work orders.
191010019	Turn off features that are not used in Omni-HealthData™.
181030077	Email alerts for work orders.



Feedback

Customer success is our top priority. Connect with us today!

Information Builders Technical Content Management team is comprised of many talented individuals who work together to design and deliver quality technical documentation products. Your feedback supports our ongoing efforts!

You can also preview new innovations to get an early look at new content products and services. Your participation helps us create great experiences for every customer.

To send us feedback or make a connection, contact Sarah Buccellato, Technical Editor, Technical Content Management at Sarah_Buccellato@ibi.com.

To request permission to repurpose copyrighted material, please contact Frances Gambino, Vice President, Technical Content Management at Frances_Gambino@ibi.com.



iWay

/ Omni-HealthData™ Release Notes

Version 3.11

DN3502204.0420

Information Builders, Inc.
Two Penn Plaza
New York, NY 10121-2898