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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 been 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:

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

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

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

or

```java
jdbc:sqlserver://
hostname:port;databasename=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

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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:
    
Key Features and Fixes

- 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 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

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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 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.

<table>
<thead>
<tr>
<th>Reason</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SUBJECT_RUNNING</td>
<td>Another work order with the same subject is running.</td>
</tr>
</tbody>
</table>
The following image shows an example of a blocked work order with the SUBJECT_RUNNING explanation.
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)
```

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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.

<table>
<thead>
<tr>
<th>IRN Number</th>
<th>Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>200129039</td>
<td>OmniController service terminated with service error.</td>
</tr>
<tr>
<td>200103076</td>
<td>Console issue when stopping DQ services.</td>
</tr>
<tr>
<td>191213093</td>
<td>Match fails with one error.</td>
</tr>
<tr>
<td>191007038</td>
<td>Master inactivate step never finishes.</td>
</tr>
<tr>
<td>200320064</td>
<td>Configurable parameters for creating distributions and &quot;with&quot; storage options on Greenplum tables.</td>
</tr>
<tr>
<td>200401012</td>
<td>Configurable parameter suppressing index creation on Greenplum tables.</td>
</tr>
<tr>
<td>190530063</td>
<td>Performance with large OHD tables.</td>
</tr>
</tbody>
</table>
## Resolved Cases for Version 3.11

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

<table>
<thead>
<tr>
<th>IRN Number</th>
<th>Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>180209030</td>
<td>NFR Omni-HealthData™: HLI and Valueset Codes zip file improvements and loading.</td>
</tr>
<tr>
<td>190107103</td>
<td>Work orders created/running without batch ID - A blank ramp control.</td>
</tr>
<tr>
<td>181030093</td>
<td>Capture cumulative Ramp Quality errors and warnings in System messages.</td>
</tr>
<tr>
<td>180209017</td>
<td>NFR Omni-HealthData™: Provide a configurable option in the Console for mastering.</td>
</tr>
<tr>
<td>181212031</td>
<td>AutoClose failed with JDBC exception: Too many parameters.</td>
</tr>
<tr>
<td>190110090</td>
<td>Console unable to display work order - lost connectivity, out of memory on controller.</td>
</tr>
<tr>
<td>181024149</td>
<td>Restarting a work order that failed to update txn ID in ramp to source.</td>
</tr>
<tr>
<td>180409027</td>
<td>Handling Source Codes that are not trimmed.</td>
</tr>
<tr>
<td>181127143</td>
<td>Issue in Omni Mapping documentation.</td>
</tr>
<tr>
<td>190206135</td>
<td>Match tickets not closing when instance data is corrected.</td>
</tr>
<tr>
<td>181031073</td>
<td>Reprocess subject fails in cleansing with no instances.</td>
</tr>
<tr>
<td>180819007</td>
<td>Non-trimmed SIDs cause mastering errors and failed work orders.</td>
</tr>
<tr>
<td>190307030</td>
<td>Security scan causes Java heap.</td>
</tr>
<tr>
<td>190107107</td>
<td>NFR Omni-HealthData™: Create a feature that removes inactive records.</td>
</tr>
<tr>
<td>190205017</td>
<td>Greenplum bundle fails - ERROR: PRIMARY KEY and DISTRIBUTED RANDOMLY are incompatible.</td>
</tr>
<tr>
<td>IRN Number</td>
<td>Summary</td>
</tr>
<tr>
<td>------------</td>
<td>---------</td>
</tr>
<tr>
<td>18113055</td>
<td>Frequent connection getting closed failing the work orders.</td>
</tr>
<tr>
<td>19101019</td>
<td>Turn off features that are not used in Omni-HealthData™.</td>
</tr>
<tr>
<td>18103077</td>
<td>Email alerts for work orders.</td>
</tr>
</tbody>
</table>
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Version 3.11