

iWay

Omni-Patient™ Release Notes

Version 2.5.x

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Release Notes for Omni-Patient™ Version 2.5.x

This document provides release information for Omni-Patient™ Version 2.5.x. It is intended for all levels of users, including system integrators and administrators.

In this chapter:

- ❑ [About Omni-Patient™ Version 2.5.x](#)
 - ❑ [Omni-Patient™ Server](#)
 - ❑ [Omni-Patient™ Management Central](#)
 - ❑ [Omni-Patient™ HealthViews](#)
 - ❑ [Customer Support](#)
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About Omni-Patient™ Version 2.5.x

Omni-Patient™ Version 2.5.x release notes address the following components:

- ❑ Omni-Patient™ Server. For more information, see [Omni-Patient™ Server](#) on page 5.
- ❑ Omni-Patient™ Management Central (OPMC). For more information, see [Omni-Patient™ Management Central](#) on page 13.
- ❑ Omni-Patient™ HealthViews. For more information, see [Omni-Patient™ HealthViews](#) on page 18.

These release notes also include information on contacting Customer Support Services. For more information, see [Customer Support](#) on page 19.

Omni-Patient™ Server

This section provides release notes that are applicable for Omni-Patient™ Server in Version 2.5.x.

For more information on installing and using Omni-Patient™ Server, see the following documentation:

- ❑ [Omni-Patient™ Server Installation and Configuration Guide](#)
- ❑ [Omni-Patient™ Server User's Guide](#)

Known Issues and Considerations

This section describes any known issues and considerations for Omni-Patient™ Server in Version 2.5.x.

- ❑ For more information on upgrading to the 2.5.1.5 release, see [SourceCodeMap Migration Procedure](#) on page 8.

New Features and Updates

This section lists and describes new features and updates for Omni-Patient™ Server in Version 2.5.x.

Version 2.5.0

- ❑ Extended the content for the library of SourceCodeMaps.
- ❑ Updates for the latest HLI-provided SourceCodeSets and SourceCodeMaps.
- ❑ SQL Server support for Relational On-Ramp FASTPATH/DIFFERENTIAL.
- ❑ Enhancement of db.upgrade to respect database column length increases.
- ❑ Allow Relational On-Ramp tables to be designated in their own tablespace.
- ❑ Several bug fixes to improve processing and deployment.

Version 2.5.1

- ❑ Extended the content for the library of SourceCodeMaps, including an NDC to RXNorm translation for producing PQRS metrics.
- ❑ Updates for latest HLI-provided SourceCodeSets and SourceCodeMaps.
- ❑ Separation of PharmacyPrescriptionOrderEvent into the following subjects:
 - ❑ PharmacyPrescriptionOrderEvent
 - ❑ PharmacyDispenseEvent
 - ❑ MedicationAdministerEvent
 - ❑ VaccinationAdministerEvent
- ❑ Separated FamilyHistory as a distinct subject from DiagnosisEvent.

- ❑ Created ProviderPractice and PracticeFacility as mastered subjects to replace the use of Organization for more explicitly depicting the PracticeFacility relationship to the ProviderPractice and the Provider.
- ❑ Updated the ProviderPracticeSpecialty to show the relationship of the Provider to the ProviderPractice and PracticeFacility.
- ❑ Addressed a bug in sourceCode processing that was created when changing from a *merge* policy to a *replace* policy, and back again for a given subject.
- ❑ Addressed an error condition when uncleansed data is persisted during processing of system-generated hard or soft-delete operations.
 - ❑ The fix ensures that system-generated records processed with an “INACTIVE” or “DELETE” OmniStatus, are processed with a “replace” policy, eliminating the possibility of error conditions caused by potentially persisting uncleansed data.
- ❑ Implemented several configuration properties for optimizing the processing of large incremental loads.
- ❑ Several additional bug fixes to improve processing and deployment.

Version 2.5.1.5

- ❑ Performance improvement in SourceCodeMap loads.
- ❑ Fix for SourceCodeMap duplicate error (IRN: 170112061).
- ❑ Removal of remediation tickets being generated for each transaction that uses an invalid SourceCode.
- ❑ Model Changes:
 - ❑ Inclusion of JobRequisition Subject in the Worker Domain.
 - ❑ Ability to capture Patient address information at the time of the Encounter.
 - ❑ Addition of Organization and ProviderPractice references on the Charge to identify the ProviderPractice a Provider was working for with respect to a Charge
 - ❑ Addition of Organization and ProviderPractice references on the EventProvider to identify the ProviderPractice a Provider was working for with respect to all Clinical Events.
 - ❑ Fix for use of ExtendedAttribute in on-ramp for TransferEvent and Encounter during FastPath load.

- ☐ Longer field length for `ids_override_match`.
- ☐ Fixed field lengths for the following:
 - ☐ `source_code.source_code`
 - ☐ `hist_source_code.source_code`
 - ☐ `source_code_map.code_map_name`
 - ☐ `source_code_relation.source_code_map_name`
 - ☐ `hist_source_code_relation.code_map_name`
- ☐ Updates for latest HLI-provided `SourceCodeSets` and `SourceCodeMaps`.
- ☐ Fix for RxNorm Codes that were missing a TTY reference.
- ☐ HealthViews:
 - ☐ Accommodations for the model changes indicated above.

Feature Overview

This section provides a feature overview for Omni-Patient™ Version 2.5.x.

SourceCodeMap Migration Procedure

1. Create a back up of the existing `source_code_relation` table.
2. Install Omni-Patient 2.5.1.4 and run the following:
`omni db.upgrade`
3. Run the SQL that follows, which replaces all records in the `source_code_relation` table with ones with differently formulated id columns.
4. Install any Source Code Map updates (packaged with 2.5.1.4 or later type 2 updates). See the IDS zip file for model changes.


```

CREATE TABLE source_code_relation_temp
(
  id character varying(255) NOT NULL,
  source_code_map_name character varying(50),
  source_code_map_id character varying(255),
  linked_map_id character varying(255),
  base_code character varying(255),
  related_code character varying(255),
  related_group character varying(255),
  preference_order integer,
  description character varying(255),
  start_date timestamp without time zone,
  end_date timestamp without time zone,
  transaction_id character varying(255),
  version bigint,
  source_name character varying(255) NOT NULL,
  source_instance_id character varying(255) NOT NULL,
  source_instance_id_name character varying(255),
  status character varying(255),
  status_reason character varying(255),
  source_status_code character varying(255),
  source_created_date timestamp without time zone,
  source_created_by character varying(50),
  source_modified_date timestamp without time zone,
  source_modified_by character varying(255),
  omni_created_date timestamp without time zone,
  omni_modified_date timestamp without time zone,
  CONSTRAINT pk_source_code_relation_temp PRIMARY KEY (id)
)

INSERT INTO source_code_relation_temp(
  id, source_code_map_name, source_code_map_id, linked_map_id,
  base_code, related_code,
  related_group, preference_order, description, start_date,
  end_date,
  transaction_id, version, source_name, source_instance_id,
  source_instance_id_name,
  status, status_reason, source_status_code, source_created_date,
  source_created_by, source_modified_date, source_modified_by,
  omni_created_date, omni_modified_date)

  (SELECT

  CONCAT('SourceCodeRelation:',source_name,':',source_code_map_name,'|',
    substring(base_code,12),':',
    substring(related_code,12),':',
    related_group,':',
    to_char(start_date,'YYYYMMDD'),':',
    preference_order
  ),

```

```

        source_code_map_name, source_code_map_id, source_code_map_id, base_code,
related_code,
        related_group, preference_order, description, start_date, end_date,
        transaction_id, version, source_name,
        CONCAT(source_code_map_name,'|',
        substring(base_code,12),':',
        substring(related_code,12),':',
        related_group,':',
        to_char(start_date,'YYYYMMDD'),':',
        preference_order
        ),
        source_instance_id_name,
        status, status_reason, source_status_code, source_created_date,
        source_created_by, source_modified_date, source_modified_by,
        omni_created_date, omni_modified_date

FROM source_code_relation);

truncate source_code_relation;

INSERT INTO source_code_relation(
        id, source_code_map_name, source_code_map_id, linked_map_id,
base_code, related_code,
        related_group, preference_order, description, start_date,
end_date,
        transaction_id, version, source_name, source_instance_id,
source_instance_id_name,
        status, status_reason, source_status_code, source_created_date,
        source_created_by, source_modified_date, source_modified_by,
        omni_created_date, omni_modified_date)

        (SELECT

        id, source_code_map_name, source_code_map_id, linked_map_id,
base_code, related_code,
        related_group, preference_order, description, start_date,
end_date,
        transaction_id, version, source_name, source_instance_id,
source_instance_id_name,
        status, status_reason, source_status_code, source_created_date,
        source_created_by, source_modified_date, source_modified_by,
        omni_created_date, omni_modified_date

        FROM source_code_relation_temp);

```

PharmacyPrescriptionOrderEvent Separation Into Multiple Subjects

The key processes business processes for tracking Medications and Vaccinations are as follows:

- ☐ Order
- ☐ Dispense

- ☐ Administration
 - ☐ Medication Administration
 - ☐ Vaccination Administration

Each of these processes was tracked previously in the various groups contained within the PharmacyPrescriptionOrderEvent. The movement to more explicit subjects helps to simplify the integration and consumption processes. The model changes being introduced in this release to support the more explicit subjects are based on the FHIR/HL7 V3 model, which suggests the use of the MedicationOrder, MedicationDispense, MedicationAdministration, and Immunization resources. The changes are summarized in the following table:

Business Process	Former Subject/Group	New Subject
Order	PharmacyPrescriptionOrderEvent. Requested	PharmacyPrescriptionOrderEvent
Dispense	PharmacyPrescriptionOrderEvent. Dispensed	PharmacyDispenseEvent
Medication Administration	PharmacyPrescriptionOrderEvent. PharmacyPrescriptionFulfillment	MedicationAdministerEvent
Vaccine Administration	PharmacyPrescriptionOrderEvent. VaccinationFulfillment	VaccineAdministerEvent

FamilyHistory Separation From DiagnosisEvent

In prior implementations, Diagnoses tied to FamilyHistory were distinguished from other diagnoses related to the patient's care, using the CCDCategoryCode of 10157-6 in a DiagnosisEvent. The movement of these diagnoses to a more explicit subject helps to simplify the integration and consumption processes. The model changes being introduced in this release to support this explicit subject is based on the FHIR/HL7-V3 model, which suggests the use of the FamilyMemberHistory resource.

ProviderPractice and PracticeFacility Separation From Organization

The FHIR/HL7-V3 model suggests the use of the Organization and Practitioner model for communicating information about the relationship between Providers, their Practice(s), and the Facilities at which they perform services. The more general Organization model allows for the designation of Addresses, but was not as robust for storing additional metadata required for analytics, such as links to the Facility and Organizational hierarchies.

Therefore, the ProviderPractice and PracticeFacility subjects are being introduced to help simplify the integration, mastering, and consumption processes. In addition, the Provider model has been amended to account for these new objects in the ProviderPracticeSpecialty. The changes are summarized in the following table.

Business Entity	Former Subject/Group	New Subject
Provider Practice	Organization [type="Practice"]	ProviderPractice
Provider Practice Location	Organization.Address	PracticeFacility
Provider relationship to Provider Practice Location	Provider.Person.PersonRelation [type="Practice"]	Provider.ProviderSpecialty. ProviderPracticeSpecialty

Optimizing Configuration Parameters for Large Incrementals

iWay Omni products use EclipseLink (<http://www.eclipse.org/eclipselink>) for Java persistence services. EclipseLink has many settings that may be useful for site-specific customizations or tuning.

As of Omni-Patient™ Version 2.5.1, these settings may be specified for use by Omni by adding property files to the following directory:

[iway7/config/OmniGenServer/resource](#)

There is a separate property file for each of the three persistence units managed by Omni. These properties are listed and described in the following table.

Property File	Description
ramp.jpa.pu-name.properties	Default <i>omnigen-ramp.properties</i> for ramp tables.
model.jpa.pu-name.properties	Default <i>omni-patient.properties</i> for model tables.
opi.jpa.pu-name.properties	Default <i>omnigen-interface.properties</i> for interface tables.

An example would be the following property file:

[iway7/config/OmniGenServer/resource/omni-patient.properties](#)

This file contains:

```
eclipselink.session.customizer.JPQLParseCacheMaxSize=300
eclipselink.jdbc.batch-writing.size=1500
eclipselink.logging.level=FINE
```

The full list of EclipseLink properties can be found on the following website:

http://www.eclipse.org/eclipselink/documentation/2.4/jpa/extensions/persistenceproperties_ref.htm#CACDCCEG2

For settings to be applied and take effect, you must restart of the server. Tuning guidelines are being planned for a future release. Customer Support may also request certain setting changes in order to diagnose a particular issue.

Standard Code Updates

Information Builders has partnered with Wolters Kluwer, formerly known as Health Life International (HLI), to provide content set updates for industry standard codes, such as SNOMED-CT, ICD-9, and ICD-10, among others. On a release-by-release basis, Information Builders updates its library with the latest content updates from HLI and transforms them for use in the SourceCodeSet and SourceCode subjects.

Due to volume considerations, these codesets are not loaded into the system by default. All current SourceCodeSets are now delivered in the following directory of the deployment package:

[/ OmniGenServer/iway7/config/OmniGenServer/resource/OID](#)

The operations administrator is given the flexibility to determine which content sets are applicable to the current customer implementation. Once the appropriate files are chosen, they may be scheduled for loading through the file listener at the appropriate time during the incremental load process.

Omni-Patient™ Management Central

This section provides release notes that are applicable for Omni-Patient™ Management Central (OPMC) in Version 2.5.x.

For more information on installing and using OPMC, see the following documentation:

- ❑ *Omni-Patient™ Management Central Installation and Configuration Guide for Windows*
- ❑ *Omni-Patient™ Management Central Installation and Configuration Guide for Linux*
- ❑ *Omni-Patient™ Management Central User's Guide*

New Features and Updates

This section lists and describes new features and updates for OPMC in Version 2.5.x.

Version 2.5.0

- ❑ Changes to maintain compatibility with Omni-Patient Version 2.5.0.
- ❑ Implemented optional removal of clear text passwords for WS02 Admin, database connections, and SMTP server by enabling password encryption.
- ❑ Corrected two stage MCO operations including scenarios where a data steward resolves a ticket, the ticket is reassigned to a data supervisor, and the supervisor approves or rejects the remediation.
- ❑ Several minor bug fixes and correction to actions that previously resulted in sporadic *Error 500* occurrences.
- ❑ Other minor bug fixes.

Version 2.5.1

- ❑ International character support for double byte and UTF-8 formats in RemediationServices.
- ❑ Authorization policies improvement to accommodate complex assignment requirements.
- ❑ ReasonCode/ReasonDescription field protection throughout the ticket lifecycle for enhanced tracking.
- ❑ ActivityToday panel re-engineered to reflect the states dynamically for improved usability.
- ❑ Option to embed components within the WebFOCUS Portal.
- ❑ Usability enhancements for WS02 policies.
- ❑ MData performance enhancements.
- ❑ Customer fixes:
 - ❑ 160701047 - Option to embed components within the WebFOCUS Portal.
 - ❑ 160707085 - 400 Error handling enhancement.
 - ❑ 160628032 - Assigning and reassigning of cases for data steward.

Known Issues and Considerations

This section describes known issues and considerations for OPMC in Version 2.5.x.

Cleansing (When Adding a Comment to a Field)

Note: As released in RemediationService Version 1.3.0 - 0624.

When a user wants to add a comment on a specific (non-empty) field, the following workaround is required to prevent the replacement of data with empty values:

1. Select the field to which a comment is to be added.
2. Note the value of the attribute to which the comment is being added.
3. Enter (type) the comment.
4. Click the check mark.
5. In the edited column (now blank), enter the original value of the attribute on the Instance Record (the value noted in Step 2).
6. Click the check mark.
7. Click the drop-down, select *Resolve Direct*, and then click *Submit*.
8. Refresh the page.

The new comment and value are persisted and can be displayed.

Automatic Transfer of Roles in WS02 Administration

Note: This process should not be required and should not be performed under normal circumstances.

If the administrator adds a new user ID to the WS02 PRIMARY domain, and that user ID already exists in an LDAP domain, then all of the existing Roles of the LDAP user are automatically transferred and enabled to the PRIMARY/user ID profile. Before updating the new user ID, examine, confirm, and then edit the Roles (Authorizations) as required that you are about to grant to this duplicate user ID.

Upgrading From Omni-Patient™ Version 2.5.0 to Version 2.5.1

This section describes the process to upgrade from an existing installation of Omni-Patient™ Version 2.5.0 to Version 2.5.1.

From a high-level, upgrading Omni-Patient™ Version 2.5.0 to Version 2.5.1 requires the following steps, which are each described in more detail in this section.

1. Updating the WS02 Identity Server (IS) policies.
2. Replacing the workflow subdirectory.
3. Updating the WAR files.
4. Manually updating MData.

Step 1: Updating the WSO2 IS Policies

To update the WSO2 IS policies:

1. From Policy View, delete the following policies if they already exist:
 - ☐ Authorize-user-dashboards-policy
 - ☐ Authorize-user-reassignissue-policy
 - ☐ Authorize-user-usercanacceptassign-policy
 - ☐ Component-access-menuitem-policy
2. From Policy Administration, delete the following policies if they already exist:
 - ☐ Authorize-user-dashboards-policy
 - ☐ Authorize-user-reassignissue-policy
 - ☐ Authorize-user-usercanacceptassign-policy
 - ☐ Component-access-menuitem-policy
3. From Policy Administration:
 - a. Click *Add New Entitlement Policy*.
 - b. Click *Import Existing Policy*.
 - c. Import the following policies from the install folder:
 - ☐ Authorize-user-dashboards-policy
 - ☐ Authorize-user-reassignissue-policy
 - ☐ Authorize-user-usercanacceptassign-policy
 - ☐ Component-access-menuitem-policy
4. After importing the policies, click *Publish to My PDP* for each policy that was imported.
5. From Policy View, click *Enable* for each policy that was published to My PDP.
6. Stop and start the WSO2 IS server.

Step 2: Replacing the Workflow Subdirectory.

To replace the workflow subdirectory:

1. Open the *omnigen_home* directory.
2. Navigate to the \workflow subdirectory.

3. Rename the existing \workflow subdirectory (for example, \workflow_250).
4. Copy the new \workflow subdirectory from the Omni-Patient™ Version 2.5.1 installation.

Step 3: Updating the WAR Files.

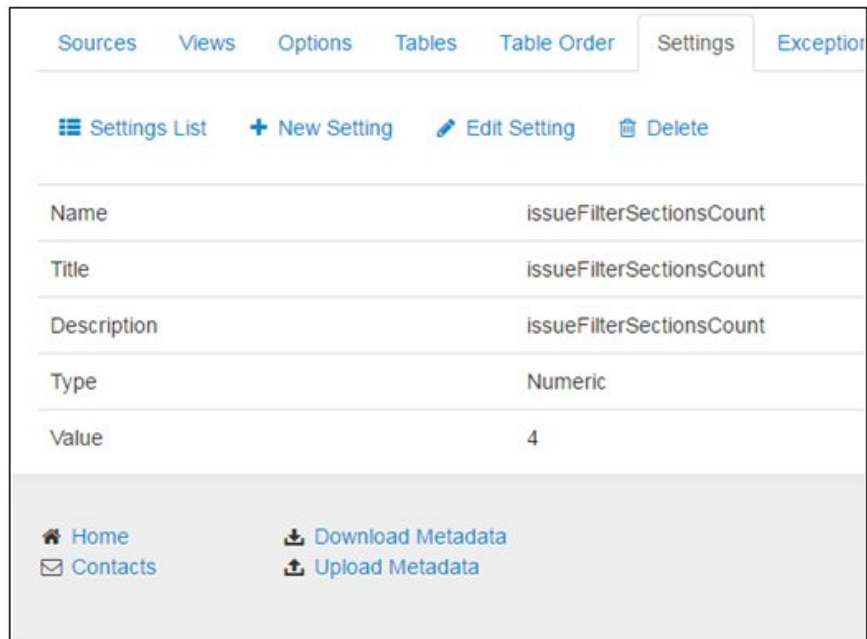
To update the WAR files:

1. Copy the new (2.5.1) version of the *opmc.war* file to the \webapps subdirectory.
2. Copy the new (2.5.1) version of the *RemediationService.war* file to the \webapps subdirectory.
3. Copy the new (2.5.1) version of the *OmniDomain.war* file to the \webapps subdirectory.

Step 4: Manually Updating MData.

To manually update MData:

1. Implement the attribute name correction (from *issueFiterSectionsCount* to *issueFilterSectionsCount*).
 - a. From the Administration section, click the *Settings* tab.
 - b. Navigate to the existing *issueFiterSectionsCount* attribute and delete this entry.
 - c. Configure a new entry for the *issueFilterSectionsCount* attribute, as shown in the following image.



2. Navigate to the *Wftickets* table and click *Edit*.
 - a. Navigate to *My Cases Filter View*.

Exclude the *id* field if it is currently included.

Exclude the *idUseAssignedr* field if it is currently included.
 - b. Navigate to *All Cases Filter View*.

Exclude the *id* field if it is currently included.
3. Navigate to the *Wfcases* table and click *Edit*.
 - a. Edit the *My Cases Filter View* and *All Cases Filter View* to include only the *currentState*, *caseType*, and *documentName* fields. In addition, the *idUser* field must also be included in the *All Cases Filter View*.

All other fields should be removed.

Omni-Patient™ HealthViews

This section provides release notes that are applicable for Omni-Patient™ HealthViews in Version 2.5.x.

For more information on installing and using Omni-Patient™ HealthViews, see the *Omni-Patient™ HealthViews User's Guide*.

New Objects

The following objects were added to Omni-Patient™ HealthViews (table / view):

- ❑ t_ahrq_qi_tool_input / v_ahrq_qi_tool_input
 - ❑ AHRQ QI tool input records.
- ❑ t_ahrq_qi_tool_output / v_ahrq_qi_tool_output
 - ❑ AHRQ QI tool output records.
- ❑ t_pharmacy_dispense_event / v_pharmacy_dispense_event
 - ❑ List of pharmacy dispense event records.
- ❑ t_vaccination_administration_event / v_vaccination_administration_event
 - ❑ List of vaccination administration event records.

- ❑ t_medication_administer_event / v_medication_administer_event
- ❑ List of mediation administration event records.

Modified Objects

The following object was modified in Omni-Patient™ HealthViews (table / view):

- ❑ t_observation_event / v_observation_event

Customer Support

Do you have questions about Omni-Patient™ Version 2.5.x?

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/toc.jsp>. 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.



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