



RESOURCE AND PATIENT MANAGEMENT SYSTEM

# **IHS Lab Reporting System**

(LR)

**Install Guide (AUR)**

Version 5.2 Patch 1056  
October 2024

Office of Information Technology  
Division of Information Technology

# Table of Contents

<b>1.0</b>	<b>Release Notes</b> .....	<b>1</b>
<b>2.0</b>	<b>Installation Notes</b> .....	<b>2</b>
2.1	Contents of Distribution .....	2
2.2	Required Resources .....	2
<b>3.0</b>	<b>BLRAM Ensemble Patch Installation</b> .....	<b>3</b>
3.1	Stop BLRAM<RPMS> Namespace Production .....	3
3.2	Import the BLRAM Patch .....	5
3.3	Restart the Production .....	8
<b>4.0</b>	<b>Sample Installations</b> .....	<b>10</b>
4.1	Sample RPMS KIDS Install .....	10
	<b>Glossary</b> .....	<b>15</b>
	<b>Acronym List</b> .....	<b>16</b>
	<b>Contact Information</b> .....	<b>17</b>

## Revision History

Version	Date	Author	Section	Page Number	Summary of Change
1.0	August 2024	Skip Squires	All	All	Initial version
1.1	August 2024	Skip Squires	All	All	Accessibility update; renamed to Install Guide

## 1.0 Release Notes

The Lab Reporting System v5.2 p1056 is designed to update the logic released in the p1055 used to identify and report on resulted microbiology lab tests and antibiotic medication administered and recorded in the Indian Health Service (IHS) Resource and Patient Management System (RPMS) and exported to files on a monthly schedule. Once these results are identified and summarized, the application will generate files consisting of a series of Health Level Seven (HL7) messages in a format that can be submitted to the National Health and Safety Network (NHSN) per the AUR Antimicrobial Reporting specifications.

A second component of the application is an Ensemble production that will generate ARO microbiology lab detail reports, ARO summary reports and AUP summary reports into an export directory for these HL7/XML files. The sites can then upload them to NSHN.

This document consists of installation instructions for the LR v5.2 p1056 national release.

**Important:** Read this entire document prior to attempting any installation.

## 2.0 Installation Notes

**Prefix:** LR

**Current Version:** 5.2

**Current Patch:** 1056

## 2.1 Contents of Distribution

Table 2-1: Distributed files and descriptions

File	Description
lr__0520.56k	RPMS KIDS
BLRAM_LR_v5_2_p1056.xml	Ensemble Production Installation File
lr__0520.56i.pdf	Installation Guide

## 2.2 Required Resources

- LR v5.2 through p1055
- Healthshare 2017.2 (or later) or IRIS 2022.1.3 (or later)

## 3.0 BLRAM Ensemble Patch Installation

This installation process assumes that your site had previously installed the LR v5.2 p1056 and your site has a BLRAM<RPMS> Production established. For example, if your site's production namespace is ABCD, then the BLRAMABCD production is the target of this update.

### 3.1 Stop BLRAM<RPMS> Namespace Production

1. Log on to the **System Management Portal**.

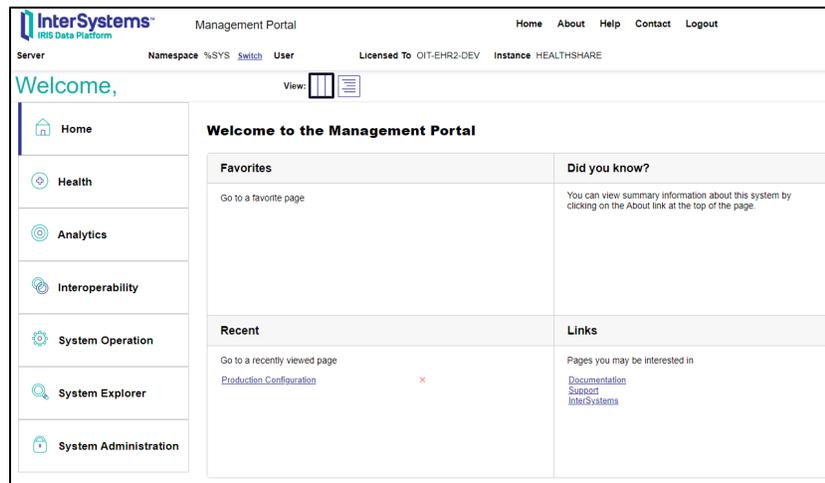


Figure 3-1: System Management Portal

2. If the Namespace: isn't the BLRAM<RPMS> Namespace created as described above in LR v5.2 p1055, select **Switch** and choose the BLRAM<RPMS> from the list provided.

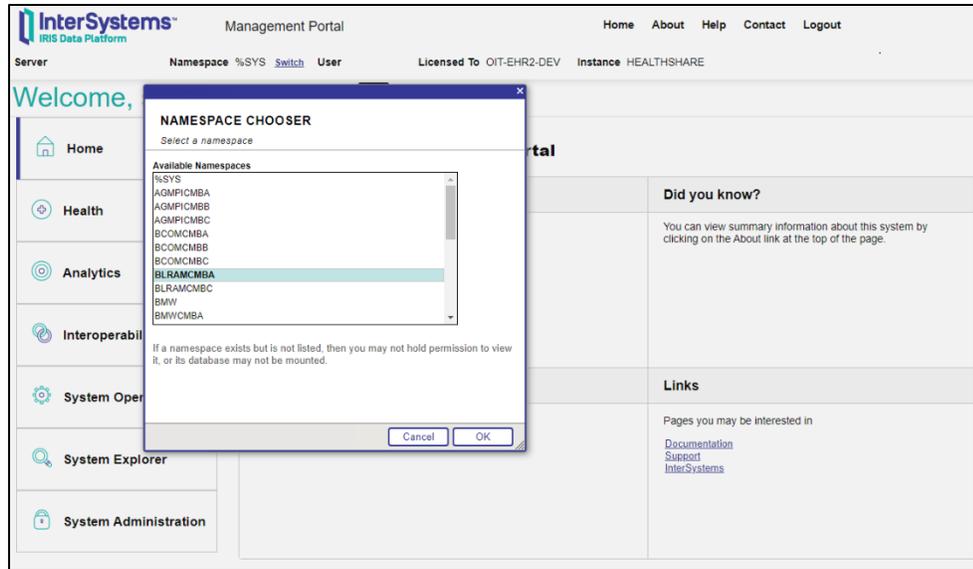


Figure 3-2: Namespace Chooser

3. Go to the **Production** configuration page.
4. Select **Interoperability | Configure | Production**

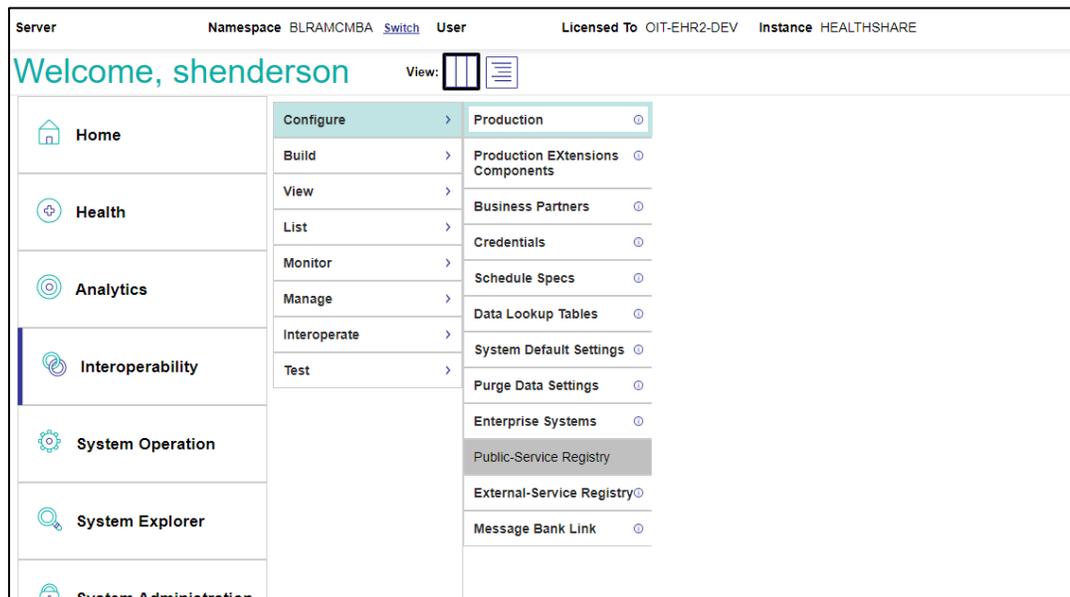


Figure 3-3: Selecting the Production

5. Select **Stop** production.

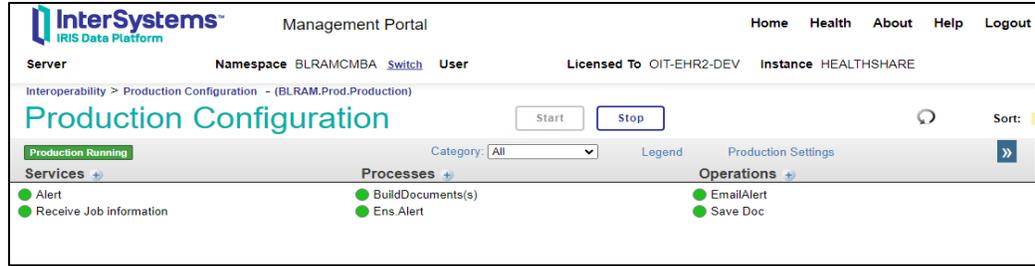


Figure 3-4: Stopping the Production

### 3.2 Import the BLRAM Patch

This section describes the import of the changes to the production with LR v5.2 p1056.

1. Go back to the **HS Management Portal** home page.

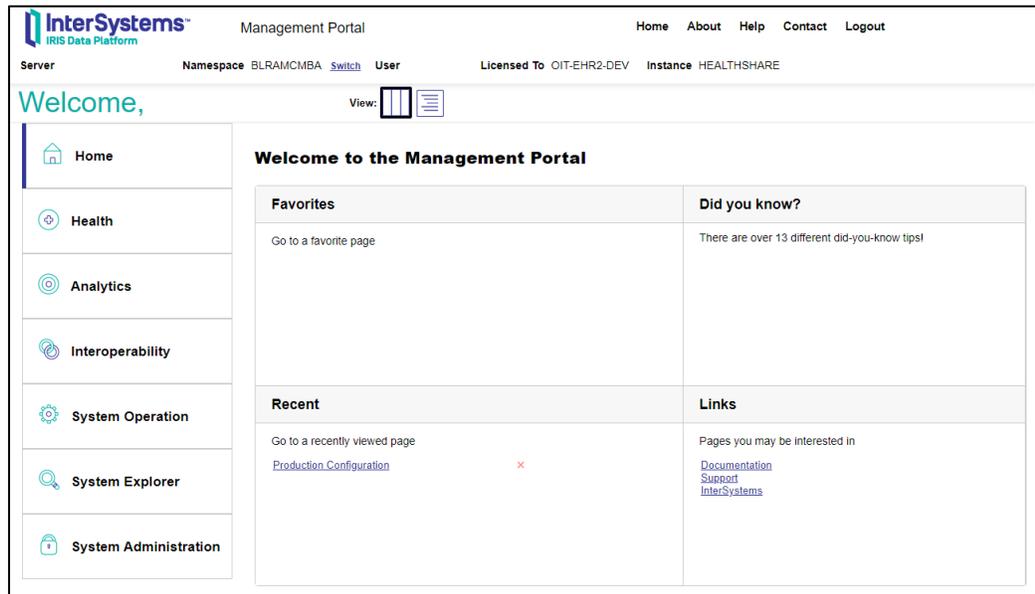


Figure 3-5: HealthShare Management Portal Home Page

2. Select **System Explorer | Classes**.

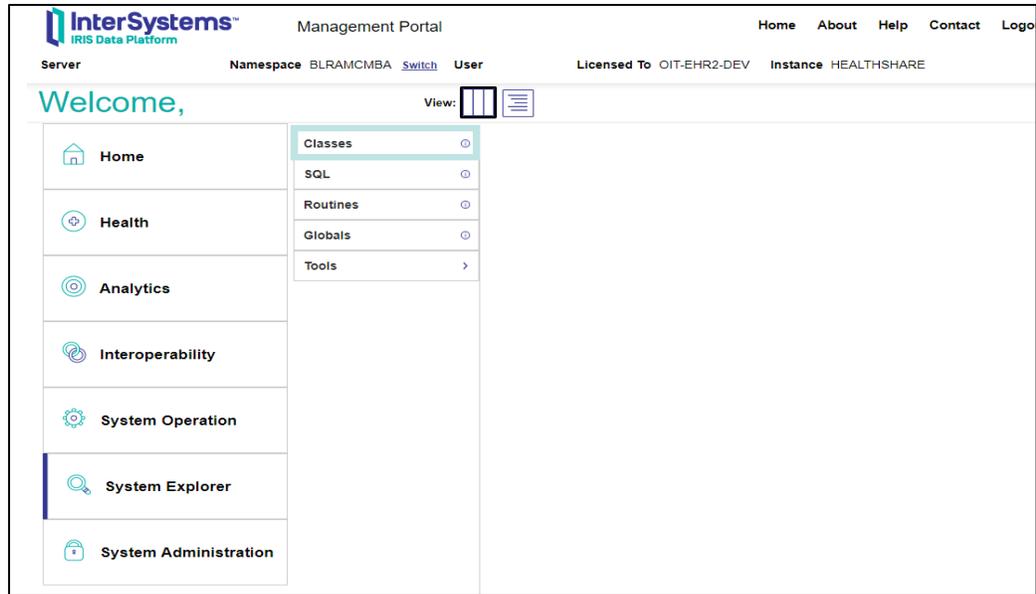


Figure 3-6: System Explorer-Classes

3. Select **Import**.

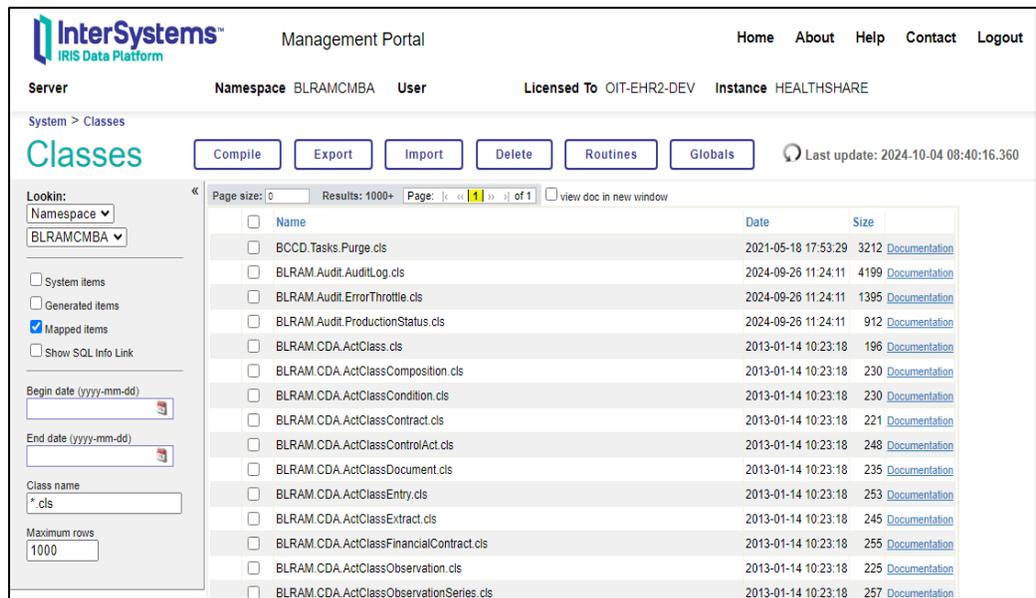


Figure 3-7: Click Import

4. Select classes to import to the BLRAM<RPMS> namespace.

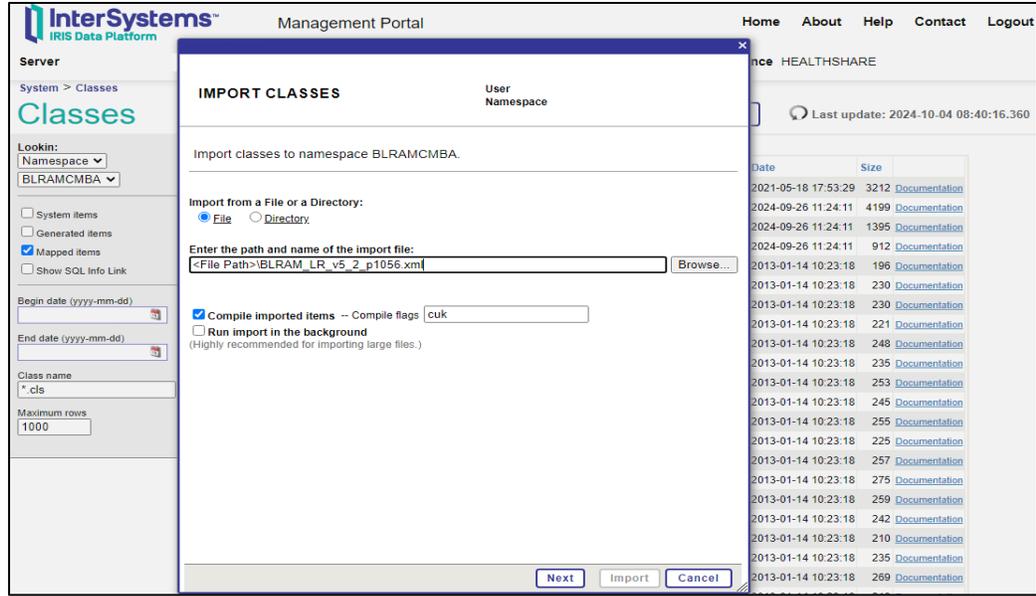


Figure 3-8: Import Classes Dialog

5. Select **Next**. Ensure all classes are selected.

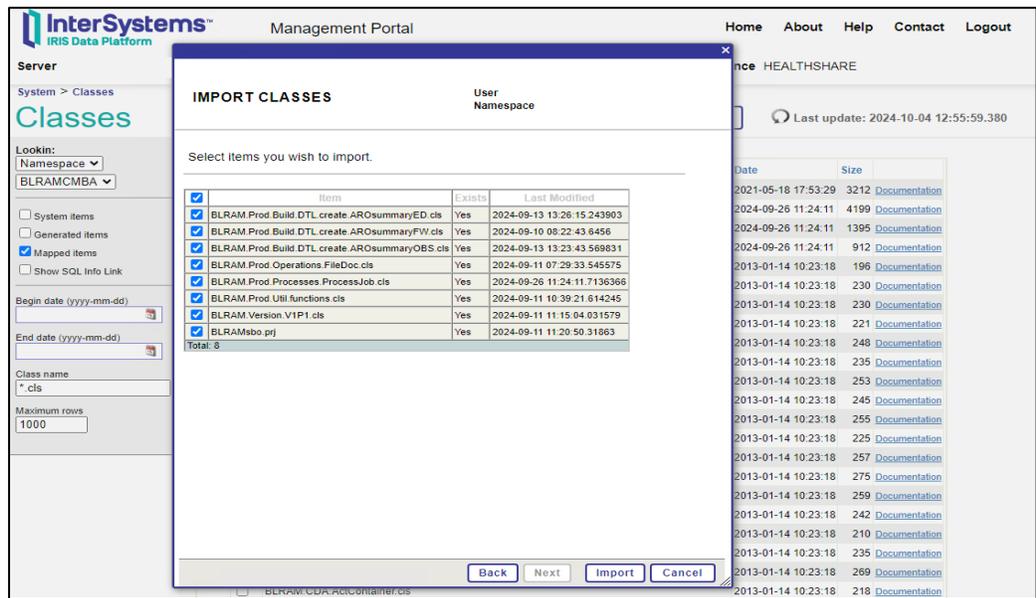


Figure 3-9: Show selected classes for import

6. Select **Import**.
7. Ensure that the load finished successfully and select **Done**.

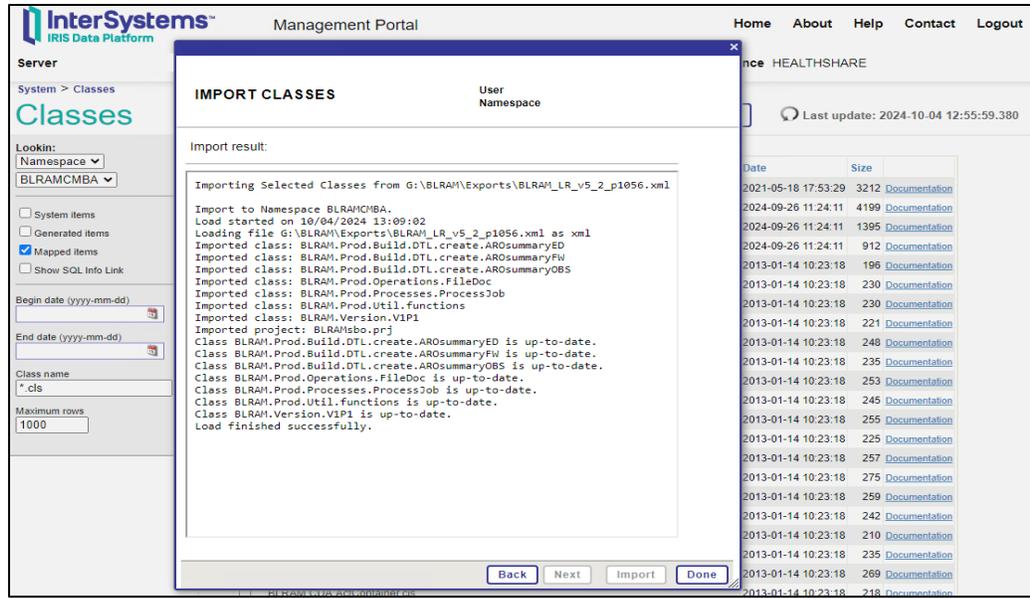


Figure 3-10: Import Classes-Import result

### 3.3 Restart the Production

1. Go back to the **HS Management Portal** home page.

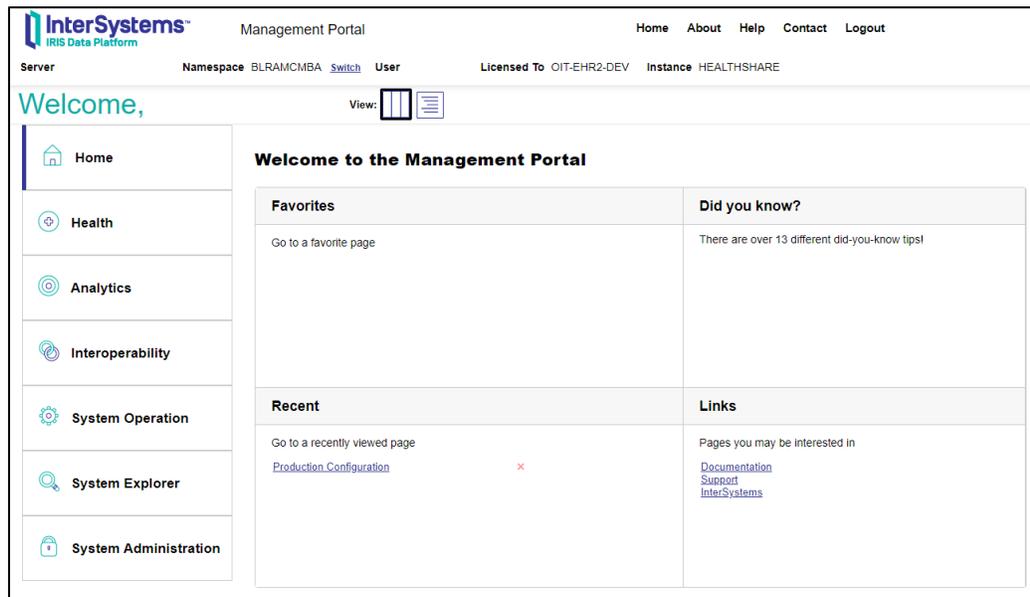


Figure 3-11: HealthShare Management Portal Home Page

2. Go to the **Production** configuration page.
3. Select **Interoperability | Configure | Production**

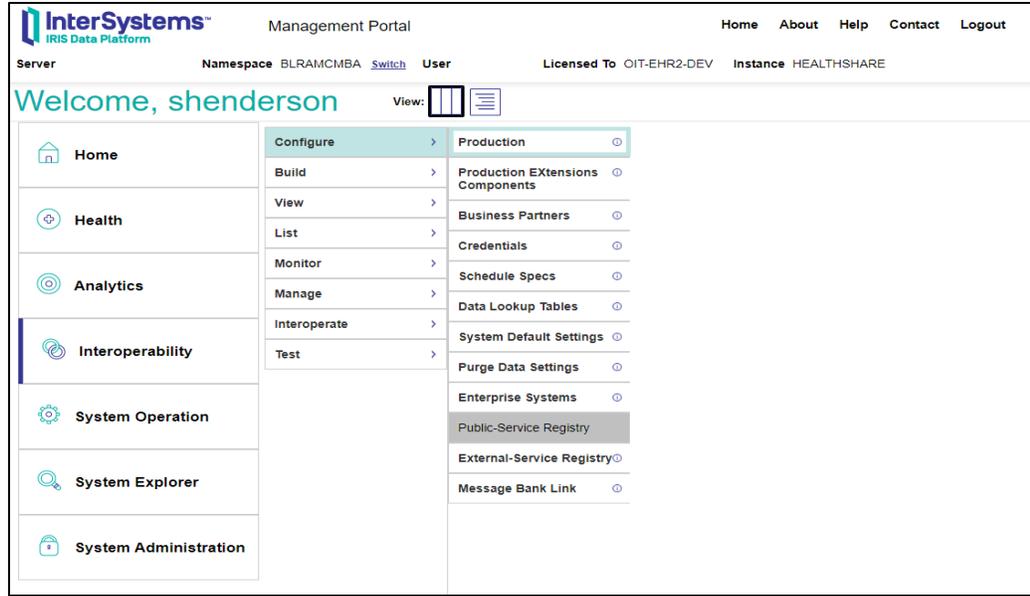


Figure 3-12: Select the Production

4. Select **Start** production.

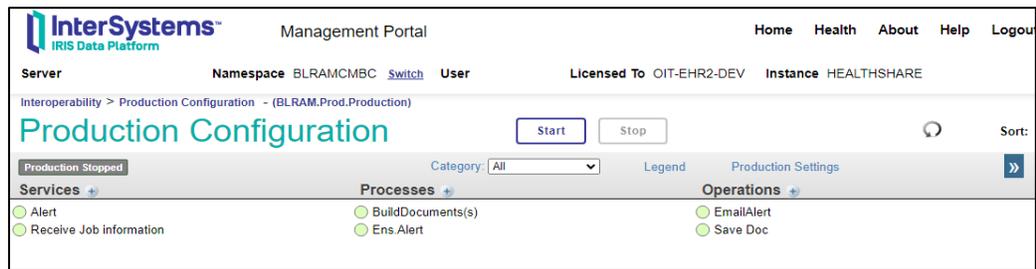


Figure 3-13: Start the Production

## 4.0 Sample Installations

### 4.1 Sample RPMS KIDS Install

NOTE: This example install was done on a development system, which is why the "was loaded" message appears.

Select OPTION NAME: XPD MAIN            Kernel Installation & Distribution System

NOTE: Due to the VA Patch's setting of data in various files, there will be "errors" reported during installation. These are not "errors" and can be safely ignored. They are caused by previous RPMS updates to the various LOINC files.

Select Kernel Installation & Distribution System <TEST ACCOUNT>  
Option: INSTALLation

- 1        Load a Distribution
- 2        Verify Checksums in Transport Global
- 3        Print Transport Global
- 4        Compare Transport Global to Current System
- 5        Backup a Transport Global
- 6        Install Package(s)
- Restart Install of Package(s)
- Unload a Distribution

Select Installation <TEST ACCOUNT> Option: 1 Load a Distribution  
Enter a Host File: G:\EXPORT\lr\_\_0520.56k

KIDS Distribution saved on Aug 09, 2024@10:35:54  
Comment: IHS Lab Patch LR\*5.2\*1056

This Distribution contains Transport Globals for the following Package(s):  
LR\*5.2\*1056  
LR\*5.2\*567  
Distribution OK!

Want to Continue with Load? YES//  
Loading Distribution...

LR\*5.2\*1056  
LR\*5.2\*567

Use INSTALL NAME: LR\*5.2\*1056 to install this Distribution.

- 1        Load a Distribution
- 2        Verify Checksums in Transport Global
- 3        Print Transport Global
- 4        Compare Transport Global to Current System
- 5        Backup a Transport Global
- 6        Install Package(s)
- Restart Install of Package(s)
- Unload a Distribution

Select Installation <TEST ACCOUNT> Option: INSTALL Package(s)





could not be added to file 95.3.

Record with .01 value 30 and internal entry #30  
could not be added to file 95.3.

Record with .01 value 34 and internal entry #34  
could not be added to file 95.3.

Record with .01 value 38 and internal entry #38  
could not be added to file 95.3.

Record with .01 value 42 and internal entry #42  
could not be added to file 95.3.

Record with .01 value 46 and internal entry #46  
could not be added to file 95.3.

Record with .01 value 50 and internal entry #50  
could not be added to file 95.3.

Record with .01 value 54 and internal entry #54  
could not be added to file 95.3.

Record with .01 value 58 and internal entry #58  
could not be added to file 95.3.

Record with .01 value 62 and internal entry #62  
could not be added to file 95.3.

Record with .01 value 66 and internal entry #66  
could not be added to file 95.3.

Record with .01 value 70 and internal entry #70  
could not be added to file 95.3.

Record with .01 value 74 and internal entry #74  
could not be added to file 95.3.

Record with .01 value 78 and internal entry #78  
could not be added to file 95.3.

Record with .01 value 82 and internal entry #82  
could not be added to file 95.3.

Record with .01 value 86 and internal entry #86  
could not be added to file 95.3.

Record with .01 value 90 and internal entry #90  
could not be added to file 95.3.

Record with .01 value 94 and internal entry #94  
could not be added to file 95.3.

Record with .01 value 98 and internal entry #98  
could not be added to file 95.3.

Record with .01 value 102 and internal entry #102  
could not be added to file 95.3.

Record with .01 value 106 and internal entry #106  
could not be added to file 95.3.

Figure 4-1: Sample RPMS KIDS Install

All errors will not be included in the sample install display.

```
Running Post-Install Routine: POST^LR567

      *** Post install started ***

      Sending install completion alert to mail group G.LMI

*** Update of LOINC Files: 129.1 129.11 129.12 129.13 started ***
*** Update of LOINC Files: 129.1 129.11 129.12 129.13 completed ***

      *** Post install completed ***

Updating Routine file...

Updating KIDS files...

LR*5.2*567 Installed.
      Aug 09, 2024@10:53:22

NO Install Message sent

Install Completed
```

Figure 4-2: Sample Installation screen

## Glossary

### **Health Level 7**

An international standard messaging system for passing data from one site to another. The AU/AU exports format data from RPMS to the NHSN using HL7 messages.

### **Onboarding**

In order to attest to the CMS measure, the site will need to register with NHSN to indicate participation in the Patient Safety with the AUR module. The site will receive an NHSN assigned Facility OID to update in the AUR site parameters to allow the upload of the monthly files to NHSN.

## Acronym List

Acronym	Meaning
ARO	Antimicrobial Resistance Option
AUP	Antimicrobial Use
AUR	Antimicrobial Use and Resistance
CDA	Clinical Document Architecture
CDC	Centers for Disease Control and Prevention
DNS	Domain Name System
ELR	Electronic Lab Reporting
FTP	File Transfer Protocol
HAI	Healthcare Associated Infection
HHS	Health and Human Services
HL7	Health Level Seven
ICD	International Classification of Disease
IHS	Indian Health Service
IP	Internet Protocol
LOINC	Logical Observation Identifiers Names and Codes
NHSN	National Health and Safety Network
PCC	Patient Care Component
RPMS	Resource and Patient Management System
SFTP	Secure Shell File Transfer Protocol
SVAP	Standards Version Advancement Process

## Contact Information

If you have any questions or comments regarding this distribution, please contact the IHS IT Service Desk.

**Phone:** (888) 830-7280 (toll free)

**Web:** <https://www.ihs.gov/itsupport/>

**Email:** [itsupport@ihs.gov](mailto:itsupport@ihs.gov)