

# **ECR**

## **Rhapsody Configuration**

 **ECR**

Locker

| <b>Summary</b>  |             |
|---|-------------|
| Sub-folders (5)   |             |
| <b>Locker Contents</b>  |             |
|   | <b>Page</b> |
|  01_eCRZip_Unzip.....  | Folder 2    |
|  02_ECR_Load.....      | Folder 52   |
|  03_ECR_MIF.....       | Folder 89   |
|  04_ECR_Validate.....  | Folder 157  |
|  05_ECR_Retention..... | Folder 172  |

# 01\_eCRZip\_Unzip

Full Path /ECR/01\_eCRZip\_Unzip

Folder

| Summary   |                   |
|---|-------------------|
| Communication Points (18)   |                   |
| Routes (5)  |                   |
| Folder Contents   |                   |
| Page  |                   |
|  ECR Publish.....                      | Dynamic Router 3  |
|  eCR subscribe.....                    | Dynamic Router 4  |
|  ECR_0_Receiving.....                  | Route 5           |
|  ECR_1_RouteDown.....                  | Route 10          |
|  eCR_1_Timeout.....                    | Sink 18           |
|  eCR_1_UnZip Sink.....                 | Sink 19           |
|  ECR_2_MoveToFolder.....               | Route 20          |
|  ECR_3_Unzip.....                      | Route 23          |
|  ECR_4_Preprocessing.....              | Route 30          |
|  In_eCRFolder.....                     | Dynamic Router 38 |
|  In_FromRouteDown.....                 | Directory 39      |
|  In_PreProcess.....                    | Dynamic Router 40 |
|  In_RouteDown.....                   | Dynamic Router 41 |
|  In_Unzip.....                       | Dynamic Router 42 |
|  out dyn To Out Generic Publish..... | Dynamic Router 43 |
|  out_eCRFolder.....                  | Dynamic Router 44 |
|  out_Preprocess.....                 | Dynamic Router 45 |
|  out_RouteDown.....                  | Dynamic Router 46 |
|  Out_ToRouteDownDir.....             | Directory 47      |
|  out_Unzip.....                      | Dynamic Router 48 |
|  TestInputDirectory.....             | Directory 49      |
|  toArchive2 publish.....             | Dynamic Router 50 |
|  ViaEmailPublish.....                | Dynamic Router 51 |



# ECR Publish

**Dynamic Router (Output Mode)**

Communication Point

| Configuration Properties |                               |
|--------------------------|-------------------------------|
| Delivery Mode            | Always Use Static Destination |
| Static Destination       | @ECR                          |
| Index Message Properties | false                         |
| Used on Routes           | Page                          |
| ECR_4_Preprocessing..... | Route 30                      |

**Details**

| Retries                     |   |
|-----------------------------|---|
| Retry Type                  | Linear                                    |
| Number of Retries           | 5   |
| Retries before Notification | 5   |
| Retry Delay (ms)            | 5000                                      |
| Properties                  |   |
| Idle Timeout (ms)           | 0   |
| Number of Connections       | 1   |
| Startup State               | Startup Last (only if previously running) |
| Continue Routing Enabled    | False                                     |



# eCR subscribe

## Dynamic Router (Input Mode)

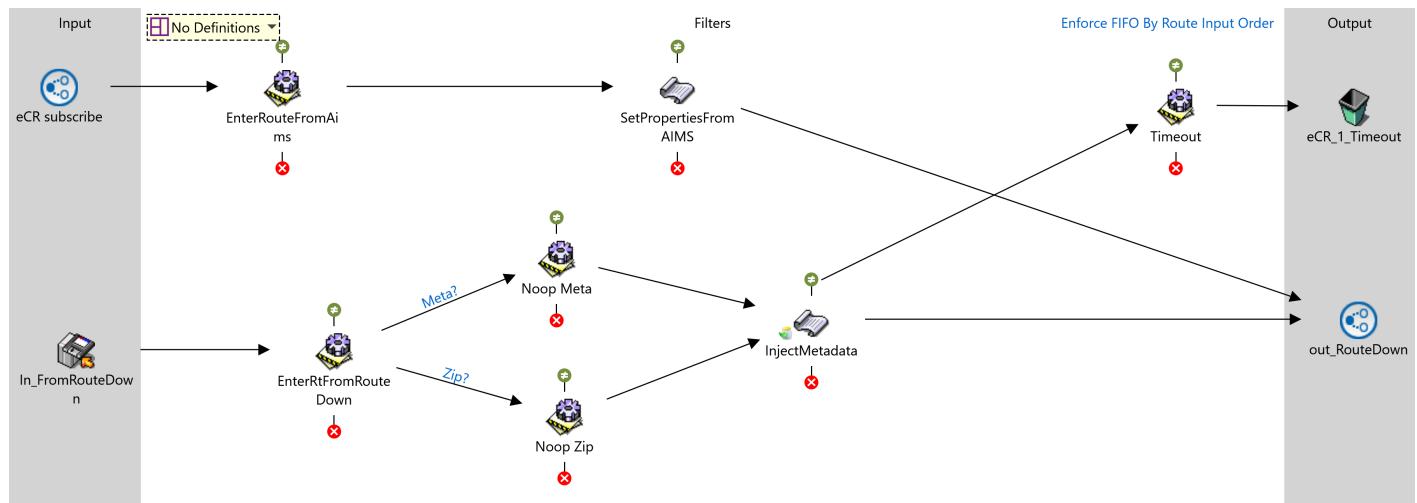
Communication Point

| Configuration Properties |         |
|--------------------------|---------|
| Used on Routes           | Page    |
| ECR_0_Receiving.....     | Route 5 |

## Details

| Retries                     |  |
|-----------------------------|--|
| Retry Type                  | Linear                                     |
| Number of Retries           | 5  |
| Retries before Notification | 5  |
| Retry Delay (ms)            | 5000                                       |
| Properties                  |  |
| Idle Timeout (ms)           | 0  |
| Number of Connections       | 1  |
| Startup State               | Startup First (only if previously running) |
| Input Message Encoding      | Unknown / Not Set                          |

# ECR\_0\_Receiving



## Notes

Author: Priya

Desc: Here are the steps involved in this route:

This route processes the ECR files entering through AIMS and files that were routed down from another env (Ex: Prod to OB). When routedDown properties are set for downstream to handle. Both files from AIMS, and routed down files reach ECR\_1\_Routedown comm point.

| Inputs                  | Page              |
|-------------------------|-------------------|
| ⌚ eCR subscribe.....    | Dynamic Router 4  |
| 📁 In_FromRouteDown..... | Directory 39      |
| Outputs                 | Page              |
| ⌚ eCR_1_Timeout.....    | Sink 18           |
| ⌚ out_RouteDown.....    | Dynamic Router 46 |

## Filters

| Name                         | Page           |
|------------------------------|----------------|
| ⌚ EnterRouteFromAims.....    | No-operation 7 |
| ⌚ EnterRtFromRouteDown.....  | No-operation 8 |
| ↪ InjectMetadata.....        | JavaScript 7   |
| ⌚ Noop Meta.....             | No-operation 9 |
| ⌚ Noop Zip.....              | No-operation 9 |
| ↪ SetPropertiesFromAIMS..... | JavaScript 7   |
| ⌚ Timeout.....               | No-operation 8 |

## Details

| General  |        |
|----------|--------|
| Priority | Normal |

| General                     |   |
|-----------------------------|---|
| Startup State               | Startup Second (only if previously running) |
| FIFO Mode                   | Enforce FIFO By Route Input Order           |
| Stop route on error message | False                                       |



## EnterRouteFromAims

Filter

**No-operation**

On ECR\_0\_Receiving route

**Destinations**

| Name   | Page                         |
|--|------------------------------|
|  SetPropertiesFromAIMS..... | JavaScript <a href="#">7</a> |



## SetPropertiesFromAIMS

Filter

**JavaScript**

On ECR\_0\_Receiving route

| Javascript   |
|--|
| <pre>/* Single input message case */ // Create the output message var next = output.append(input[0]);  next.setProperty('RouteDownFile', 'False');  var ffn = next.getProperty('FullFilename');  //Remove WA_PROD/WA_TEST from FullFilename if(ffn.indexOf( '\\\\' ) &gt;= 0) {     var tokens = ffn.split( '\\\\' );     next.setProperty( 'FullFilename',tokens[1]); }  //Set baseFilename var ffn = next.getProperty('FullFilename'); if(ffn.indexOf( '.' ) &gt;= 0) {     var bfn = ffn.substring(0, ffn.lastIndexOf("."));     next.setProperty( 'BaseFilename',bfn); }</pre> |

**Destinations**

| Name   | Page                              |
|--|-----------------------------------|
|  out_RouteDown..... | Dynamic Router <a href="#">46</a> |



## InjectMetadata

Filter

**JavaScript**

On ECR\_0\_Receiving route

| <b>Javascript</b>   |  |
|---|--|
| <pre>// this is why we set the metadata file to index 0 explicitly; loop can just start at 1 and we // can target the metadata property. var sender =''; sender = input[0].text; //Comes from Metadata  for (var i = 1; i &lt; input.length; i++) //ZipFile {     var next = output.append( input[i] );     if(i == 1)     {         next.setProperty('RouteDownFile', 'True');         var obj = JSON.parse(sender);         next.setProperty( 'AIMSPlatformFilename', next.getProperty( 'FullFilename' ) );         next.setProperty( 'AIMSPlatformSender', sender );         next.setProperty( 'mmd_actualsenderid', obj.sender );         next.setProperty( 'mmd_actualsendername', obj.senderName );         next.setProperty( 'mmd_actualdocumenttype', 'eCRZIP' );     } }</pre> |  |

| <b>Message Collector: Input Collation</b> |  |
|---|--|
| Collection Order                          | [ECR_0_Receiving/e06921e2-7fc8-4276-b737-fef8af5d04a7,ECR_0_Receiving /cb0b4037-437f-4208-b548-c360b20139f8] |
| Match Property                            | BaseFilename   |
| Message Set Timeout                       | 30   |
| Timeout Units                             | Seconds  |
| Timeout Destination                       | No-Match Connector   |

## Destinations

| Name                 | Page              |
|----------------------|-------------------|
| ⌚ out_RouteDown..... | Dynamic Router 46 |
| Error Connector      | Page              |
| ⌚ Timeout.....       | No-operation 8    |

|  |               |
|--|---------------|
|  <b>Timeout</b> | <b>Filter</b> |
| <b>No-operation</b>  |               |
| On ECR_0_Receiving route   |               |

## Destinations

| Name                 | Page    |
|----------------------|---------|
| 📦 eCR_1_Timeout..... | Sink 18 |

|   |               |
|---|---------------|
|  <b>EnterRtFromRouteDown</b> | <b>Filter</b> |
| <b>No-operation</b>   |               |

On ECR\_0\_Receiving route

## Destinations

| Name                                 | Page           |
|--------------------------------------|----------------|
| Output Condition: Meta?              |                |
| Suffix contains 'meta' ignoring case |                |
| Noop Meta.....                       | No-operation 9 |
| Output Condition: Zip?               |                |
| Suffix contains 'zip' ignoring case  |                |
| Noop Zip.....                        | No-operation 9 |

## Noop Zip

Filter

**No-operation**

On ECR\_0\_Receiving route

## Destinations

| Name                | Page         |
|---------------------|--------------|
| InjectMetadata..... | JavaScript 7 |

## Noop Meta

Filter

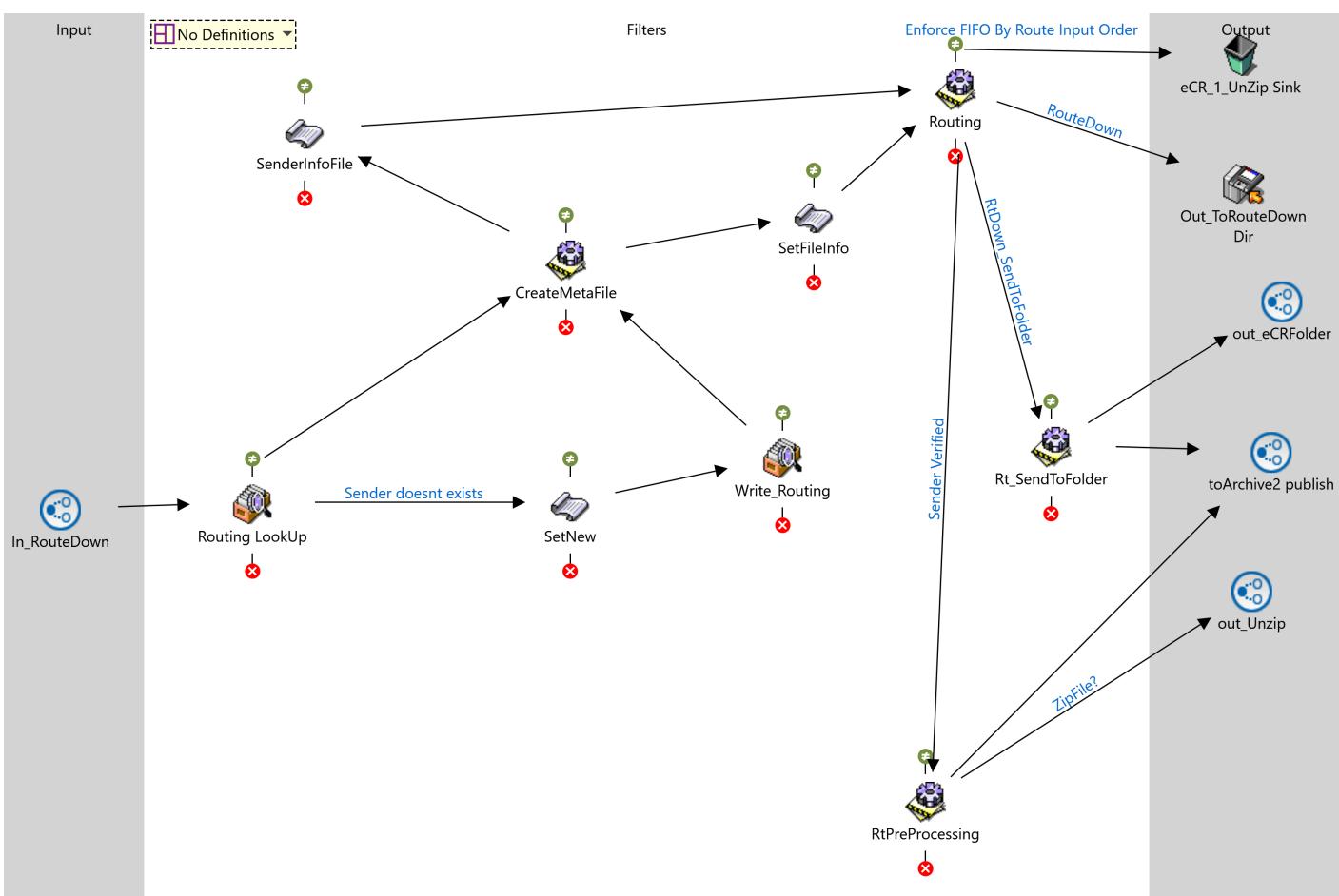
**No-operation**

On ECR\_0\_Receiving route

## Destinations

| Name                | Page         |
|---------------------|--------------|
| InjectMetadata..... | JavaScript 7 |

# ECR\_1\_RouteDown



## Notes

Author: Priya

Desc: Here are the steps involved in this route:

Routed down files check whether sender already exists.

1. If sender doesn't exist, properties are set and written in routing table.
  - a. If files comes from Prod, new files are routed down to OB.
  - b. If files comes from OB and if files are routed down from prod to OB, new files are sent to folder in OB.
  - c. If files comes from OB and if test files are received ib OB from AIMS, new files are sent to folder in QA.
  - d. If files comes from QA and if files are routed down from OB to QA, new files are sent to folder in QA.
2. If route string is set to downstream env or if route string is same as current env but comes from WA\_TEST, those files are routed down. (Ex: PROD -> OB, OB -> QA)
3. If routestring is set to EICR\_FOLDER, send to folder directory
4. If route string is same as current\_env and Sender is not a test file, then it is sent for further processing.

| Inputs                  | Page              |
|-------------------------|-------------------|
| ⌚ In_RouteDown.....     | Dynamic Router 41 |
| Outputs                 | Page              |
| 📦 eCR_1_UnZip Sink..... | Sink 19           |

| Outputs                 |                | Page |
|-------------------------|----------------|------|
| Out_ToRouteDownDir..... | Directory      | 47   |
| out_eCRFolder.....      | Dynamic Router | 44   |
| toArchive2 publish..... | Dynamic Router | 50   |
| out_Unzip.....          | Dynamic Router | 48   |

## Filters

| Name                 |                 | Page |
|----------------------|-----------------|------|
| CreateMetaFile.....  | No-operation    | 16   |
| Routing.....         | No-operation    | 15   |
| Routing_LookUp.....  | Database LookUp | 13   |
| Rt_SendToFolder..... | No-operation    | 16   |
| RtPreProcessing..... | No-operation    | 12   |
| SenderInfoFile.....  | JavaScript      | 16   |
| SetFileInfo.....     | JavaScript      | 15   |
| SetNew.....          | JavaScript      | 14   |
| Write_Routing.....   | Database LookUp | 12   |

## Details

| General                     |   |
|-----------------------------|---|
| Priority                    | Normal                                      |
| Startup State               | Startup Second (only if previously running) |
| FIFO Mode                   | Enforce FIFO By Route Input Order           |
| Stop route on error message | False                                       |

 **RtPreProcessing**

Filter

**No-operation**

On ECR\_1\_RouteDown route

**Destinations**

| Name  | Page              |
|---|-------------------|
| Output Condition: ZipFile?  |                   |
| Suffix contains 'zip' ignoring case   |                   |
|  out_Unzip.....          | Dynamic Router 48 |
|  toArchive2 publish..... | Dynamic Router 50 |

 **Write\_Routing**

Filter

**Database LookUp**

On ECR\_1\_RouteDown route

| Configuration Properties |                       |
|--------------------------|-----------------------|
| Maximum Concurrency      | 0                     |
| Database                 | Manual setting        |
| Configuration File       | Database LookUp 2.xml |
| Message Type             | Plain text            |
| Definition               |                       |
| Query Timeout            |                       |
| Deadlock Retry Attempts  | 5                     |
| Deadlock Retry Delay     | 100                   |
| Socket Timeout           | 0                     |

**Configuration File: Database LookUp 2.xml**

```

<config xmlns:ide="http://www.orionhealth.com/Rhapsody/IDE" xmlns:user="http://www.orionhe
alth.com/Rhapsody/IDE/UserData" version="6" ide:version="6.9.1.78122" ide:idcCompatibleVersion
="3.0" ide:schemaName="dbo" ide:connectionName="RHAP_DB">
  <driver>net.sourceforge.jtds.jdbc.Driver</driver>
  <url>${RHAP_URL}</url>
  <username />
  <password />
  <binaryEncoding>base64</binaryEncoding>
  <statement name="New Statement" ide:type="executeSql" ide:allowCompoundStatements="true">
    <sql>begin transaction
IF ((select count(*) as CountSender from dbo.Routing where OHPId = $mmd_actualselectorid and Doc
umentType=$mmd_actualdocumenttype) = 0)
BEGIN
  INSERT into Routing
  ([OHPid],[DocumentType],[RouteType],[RouteString],[Setup],[Downconvert]
  ,[RouteType251],[RouteString251],[RouteType231],[RouteString231],[NOTES],[created])
  VALUES
  ($mmd_actualselectorid,$mmd_actualdocumenttype,$RouteType,$RouteString,$Setup,'NO'
  ,'-','-','-','-',$mmd_actualselectordate,GETDATE())
END
  

```

**Configuration File: Database LookUp 2.xml**

```
commit transaction</sql>
</statement>
</config>
```

**Destinations**

| Name                | Page            |
|---------------------|-----------------|
| CreateMetaFile..... | No-operation 16 |

**Routing LookUp**

Filter

**Database LookUp**

On ECR\_1\_RouteDown route

| Configuration Properties |                     |
|--------------------------|---------------------|
| Maximum Concurrency      | 0                   |
| Database                 | Manual setting      |
| Configuration File       | Database LookUp.xml |
| Message Type             | Plain text          |
| Definition               |                     |
| Query Timeout            |                     |
| Deadlock Retry Attempts  | 5                   |
| Deadlock Retry Delay     | 100                 |
| Socket Timeout           | 0                   |

**Configuration File: Database LookUp.xml**

```
<config xmlns:ide="http://www.orionhealth.com/Rhapsody/IDE" xmlns:user="http://www.orionhe
alh.com/Rhapsody/IDE/UserData" version="6" ide:version="6.9.1.78122" ide:idcCompatibleVersion
="3.0" ide:schemaName="dbo" ide:connectionName="RHAP DB">
  <driver>net.sourceforge.jtds.jdbc.Driver</driver>
  <url>${RHAP_URL}</url>
  <username />
  <password />
  <binaryEncoding>base64</binaryEncoding>
  <statement name="New Statement" ide:type="executeSql" ide:allowCompoundStatements="true">
    <sql>SET TRANSACTION ISOLATION LEVEL READ COMMITTED
begin transaction
IF ((select count(*) as CountSender from dbo.Routing where OHPId = $mmd_actualsenderid and Doc
umentType=$mmd_actualdocumenttype) &gt;= 1)
BEGIN
  SELECT top 1 RouteString, Setup, Created, Updated, Count(*) as CountSender
  FROM dbo.Routing
  where OHPId = $mmd_actualsenderid and DocumentType=$mmd_actualdocumenttype
  GROUP BY RouteString,Setup, Created, Updated
  ORDER BY Created, Updated
END
ELSE BEGIN
  SELECT 'NoResult','NO', GETDATE(),GETDATE(),0 as CountSender <!--FROM dbo.Routing-->
END
commit transaction</sql>
<substituteColumn name="CountSender">$CountSender</substituteColumn>
```

**Configuration File: Database LookUp.xml**

```

<substituteColumn name="RouteString">$RouteString</substituteColumn>
<substituteColumn name="Setup">$Setup</substituteColumn>
</statement>
</config>
```

**Destinations**

| Name                                   | Page                            |
|--|---------------------------------|
| Output Condition: Sender doesnt exists |                                 |
| CountSender = '0'                      |                                 |
| SetNew.....                            | JavaScript <a href="#">14</a>   |
| Error Connector                        | Page                            |
| CreateMetaFile.....                    | No-operation <a href="#">16</a> |

 **SetNew**

Filter

**JavaScript**

On ECR\_1\_RouteDown route

**Javascript**

```

/* Single input message case */
// Create the output message
var next = output.append(input[0]);
var envVar = '';

var env = (getVariable('eICR_dataEnv')).toUpperCase();
if(env== 'PROD')
{
    envVar = 'OB'; //testing purpose
}
else if(env == 'OB' && next.getProperty('RouteDownFile').toUpperCase() == 'TRUE') //File
    routed from Prod to OB
{
    envVar = 'eICR_Folder';
    next.setProperty("SenderFirstTimeReceived",'True');
}
else if(env == 'OB' && next.getProperty('RouteDownFile').toUpperCase() == 'FALSE') //Test File
    received in OB from AIMS
{
    envVar = 'QA';
}
else if(env == 'QA' && next.getProperty('RouteDownFile').toUpperCase() == 'TRUE') //Test File
    routed from OB to QA
{
    envVar = 'eICR_Folder';
    next.setProperty("SenderFirstTimeReceived",'True');
}

next.setProperty( "RouteType" , 'ROUTE' );
next.setProperty( "RouteString" , envVar );
next.setProperty( "Setup" , 'YES' );
```

## Javascript

### Destinations

| Name               | Page               |
|--------------------|--------------------|
| Write_Routing..... | Database LookUp 12 |

## Routing

### No-operation

On ECR\_1\_RouteDown route

Filter

### Destinations

| Name   | Page            |
|--|-----------------|
| <b>Output Condition: RouteDown</b>   |                 |
| ((input.getProperty("Setup") == "YES") && (input.getProperty("RouteString") == getVariable ('eICR_dataEnv_RouteDown')))    ((input.getProperty("Setup") == "YES") && (input.getProperty("RouteString") == getVariable ('eICR_dataEnv')) && (input.getProperty('SenderIdentity') == 'WA_TEST')) |                 |
| Out_ToRouteDownDir.....  | Directory 47    |
| <b>Output Condition: RtDown_SendToFolder</b>   |                 |
| RouteString = 'eICR_Folder' ignoring case  |                 |
| AND  |                 |
| Setup = 'YES' ignoring case  |                 |
| Rt_SendToFolder.....   | No-operation 16 |
| <b>Output Condition: Sender Verified</b>   |                 |
| ((input.getProperty("Setup") == "YES") && (input.getProperty("RouteString") == getVariable ('eICR_dataEnv')) && (input.getProperty('SenderIdentity') != 'WA_TEST'))  |                 |
| RtPreProcessing.....   | No-operation 12 |
| <b>Error Connector</b>   |                 |
| eCR_1_UnZip Sink.....  | Sink 19         |

## SetFileInfo

### JavaScript

On ECR\_1\_RouteDown route

Filter

## Javascript

```
var next = output.append(input[0]);
next.setProperty("Suffix", "zip");
```

**Javascript**

```
var senderIdentity = next.getProperty("SenderIdentity");
if (senderIdentity==null) {
  senderIdentity="False";
  next.setProperty("SenderIdentity",senderIdentity);
}
```

**Destinations**

| Name   | Page                            |
|--|---------------------------------|
|  Routing..... | No-operation <a href="#">15</a> |

 **CreateMetaFile**

Filter

**No-operation**

On ECR\_1\_RouteDown route

**Destinations**

| Name  | Page                          |
|---|-------------------------------|
|  SenderInfoFile..... | JavaScript <a href="#">16</a> |
|  SetFileInfo.....    | JavaScript <a href="#">15</a> |

 **Rt\_SendToFolder**

Filter

**No-operation**

On ECR\_1\_RouteDown route

**Destinations**

| Name  | Page                              |
|---|-----------------------------------|
|  out_eCRFolder.....      | Dynamic Router <a href="#">44</a> |
|  toArchive2 publish..... | Dynamic Router <a href="#">50</a> |

 **SenderInfoFile**

Filter

**JavaScript**

On ECR\_1\_RouteDown route

**Javascript**

```
var next = output.append(input[0]);

var metadata = next.getProperty( 'AIMSPlatformSender' );
next.text = metadata;
next.setProperty( 'Suffix', 'meta' );
next.setProperty( 'FullFilename', next.getProperty('BaseFilename')+". "+next.getProperty( 'Suffix') );

var senderIdentity = next.getProperty("SenderIdentity");
```

**Javascript**

```
if (senderIdentity==null) {  
    senderIdentity="False";  
    next.setProperty("SenderId",senderIdentity);  
}
```

**Destinations**

| Name   | Page                            |
|--|---------------------------------|
|  Routing..... | No-operation <a href="#">15</a> |



## eCR\_1\_Timeout

Sink (Output Mode)

## Communication Point

| Used on Routes           | Page     |
|--------------------------|----------|
| ECR_0_Receiving.....     | Route 5  |
| ECR_3_Unzip.....         | Route 23 |
| ECR_4_Preprocessing..... | Route 30 |

### Details

| Retries                     |  |
|-----------------------------|--|
| Retry Type                  | Linear                                     |
| Number of Retries           | 5  |
| Retries before Notification | 5  |
| Retry Delay (ms)            | 5000                                       |
| Properties                  |  |
| Idle Timeout (ms)           | 0  |
| Number of Connections       | 1  |
| Startup State               | Startup First (only if previously running) |
| Continue Routing Enabled    | False                                      |



# eCR\_1\_UnZip Sink

## Sink (Output Mode)

Communication Point

| Used on Routes           | Page                     |
|--------------------------|--------------------------|
| ECR_1_RouteDown.....     | Route <a href="#">10</a> |
| ECR_4_Preprocessing..... | Route <a href="#">30</a> |

## Details

| Retries                     |  |
|-----------------------------|--|
| Retry Type                  | Linear                                     |
| Number of Retries           | 5  |
| Retries before Notification | 5  |
| Retry Delay (ms)            | 5000                                       |
| Properties                  |  |
| Idle Timeout (ms)           | 0  |
| Number of Connections       | 1  |
| Startup State               | Startup First (only if previously running) |
| Continue Routing Enabled    | False                                      |

## ECR\_2\_MoveToFolder



### Notes

Author: Priya

Desc: Here are the steps involved in this route:

Files are sent to new folder for validation in the route down env.

| Inputs  | Page                              |
|---|-----------------------------------|
|  In_eCRFolder.....                   | Dynamic Router <a href="#">38</a> |
| Outputs   | Page                              |
|  out dyn To Out Generic Publish..... | Dynamic Router <a href="#">43</a> |
|  ViaEmailPublish.....                | Dynamic Router <a href="#">51</a> |

## Filters

| Name   | Page                            |
|--|---------------------------------|
|  EnterRoute.....        | No-operation <a href="#">22</a> |
|  Merge.....             | No-operation <a href="#">22</a> |
|  SetFolder_ZipFile..... | JavaScript <a href="#">21</a>   |

## Details

| General                     |  |
|-----------------------------|--|
| Priority                    | Normal                                     |
| Startup State               | Startup Third (only if previously running) |
| FIFO Mode                   | Enforce FIFO By Route Input Order          |
| Stop route on error message | False                                      |



## SetFolder\_ZipFile

Filter

**JavaScript**

On ECR\_2\_MoveToFolder route

**Javascript**

```

for (var i = 0; i < input.length; i++) {
    var next = output.append(input[i]);

    var basefilename = next.getProperty("BaseFilename");
    var sender = next.getProperty("mmd_actualsenderid") + "_" + next.getProperty("mmd_actualsendername");

    var senderFirstTimeReceived = next.getProperty("SenderFirstTimeReceived");
    if (senderFirstTimeReceived==null) {
        senderFirstTimeReceived="False";
        next.setProperty("SenderFirstTimeReceived",senderFirstTimeReceived);
    }

    var now = new Date();
    var yr = (now.getFullYear()).toString();
    var mo = now.getMonth()+1; //Month offset
    var dt = now.getDate();
    var hr = now.getHours();
    var min = now.getMinutes();
    var msg_date;

    if(mo < 10) {
        mo = mo.toString();
        mo = "0"+mo; //pad if only 1 digit
        msg_date = yr+mo;
    } else {
        mo = mo.toString();
        msg_date = yr+mo;
    }

    if(dt < 10) {
        dt = dt.toString();
        dt = "0"+dt; //pad if only 1 digit
        msg_date = msg_date+ dt;
    } else {
        dt = dt.toString();
        msg_date = msg_date+dt;
    }

    if(hr < 10) {
        hr = hr.toString();
        hr = "_0"+hr;
        msg_date = msg_date+ hr; //pad if only 1 digit
    } else {
        hr = hr.toString();
        msg_date = msg_date+_+hr;
    }

    if(min < 10) {
        min = min.toString();
        min = "_0"+min;
        msg_date = msg_date+min; } //pad if only 1 digit
    } else {
        min = min.toString();
        msg_date = msg_date+_+min;
    }
}

```

**Javascript**

```

next.setProperty("MSG_DATE",msg_date);

var sfn = "eCR/NewSender/" + sender + "/" + yr + "/" + mo + "/" + dt + "/" + basefilename;
next.setProperty("BaseFilename",sfn);

var rhap_env = getVariable("eICR_dataEnv");
var msg = "File: " + getVariable('Folder_BASE') + '/' + next.getProperty("BaseFilename") +
".." + next.getProperty("Suffix") + " has been received\n\n";

var email_from = getVariable("Email_system_name");
next.setProperty("email_from",getVariable('eICR_newFile_FromEmail'));
next.setProperty("email_server", "relay.doh.wa.gov");
next.setProperty("email_to", getVariable('eICR_NewFile_sendEmail'));
next.setProperty("email_subject", "eCR: New sender Received - " + rhap_env + " " + yr);
next.setProperty("email_body", msg);
}

```

**Destinations**

| Name   | Page                            |
|--|---------------------------------|
|  Merge..... | No-operation <a href="#">22</a> |

 **EnterRoute**

Filter

**No-operation**

On ECR\_2\_MoveToFolder route

**Destinations**

| Name   | Page                          |
|--|-------------------------------|
|  SetFolder_ZipFile..... | JavaScript <a href="#">21</a> |

 **Merge**

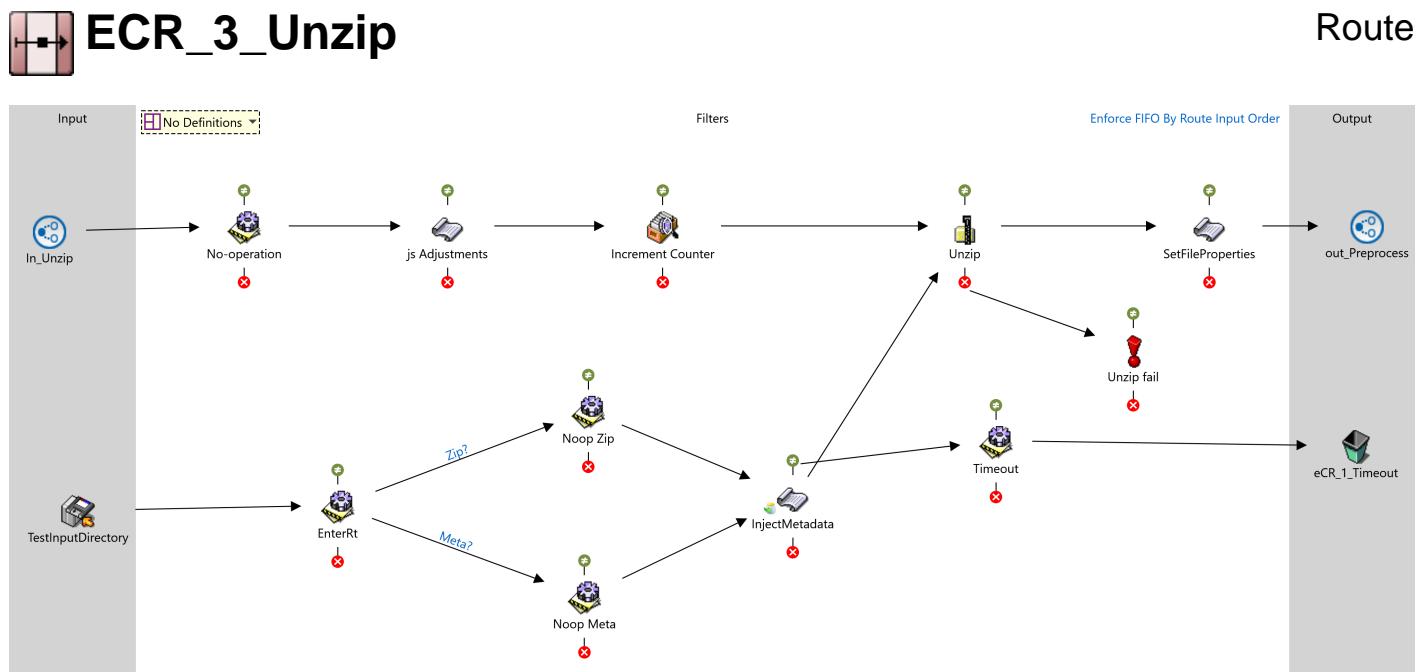
Filter

**No-operation**

On ECR\_2\_MoveToFolder route

**Destinations**

| Name  | Page                              |
|---|-----------------------------------|
|  out dyn To Out Generic Publish..... | Dynamic Router <a href="#">43</a> |
| Output Condition: First time Sender?  |                                   |
| SenderFirstTimeReceived = 'TRUE' ignoring case  |                                   |
| AND   |                                   |
| Suffix contains 'ZIP' ignoring case   |                                   |
|  ViaEmailPublish.....                | Dynamic Router <a href="#">51</a> |



### Notes

Author: Priya

Desc: Here are the steps involved in this route:

ECR files Preprocessing starts here. Files are unzipped and sent to ECR preprocessing.

Test files can be sent from this folder, through a file directory.

| Inputs                    | Page              |
|---------------------------|-------------------|
| ⌚ In_Unzip.....           | Dynamic Router 42 |
| 📁 TestInputDirectory..... | Directory 49      |
| Outputs                   | Page              |
| ⌚ out_Preprocess.....     | Dynamic Router 45 |
| 📁 eCR_1_Timeout.....      | Sink 18           |

### Filters

| Name                     | Page               |
|--------------------------|--------------------|
| 🎲 EnterRt.....           | No-operation 27    |
| 🎲 Increment Counter..... | Database LookUp 27 |
| 🎲 InjectMetadata.....    | JavaScript 28      |
| 🎲 js Adjustments.....    | JavaScript 29      |
| 🎲 No-operation.....      | No-operation 26    |
| 🎲 Noop Meta.....         | No-operation 27    |
| 🎲 Noop Zip.....          | No-operation 25    |
| 🎲 SetFileProperties..... | JavaScript 25      |
| 🎲 Timeout.....           | No-operation 26    |
| ZIP Unzip.....           | Zip / Unzip 26     |

| Name              | Page                           |
|-------------------|--------------------------------|
| ⚠ Unzip fail..... | Error Queue <a href="#">29</a> |

## Details

| General                     |   |
|-----------------------------|---|
| Priority                    | Normal                                      |
| Startup State               | Startup Fourth (only if previously running) |
| FIFO Mode                   | Enforce FIFO By Route Input Order           |
| Stop route on error message | False                                       |

## SetFileProperties

Filter

### JavaScript

On ECR\_3\_Unzip route

#### Javascript

```

for ( var i = 0; i < input.length; i++ ) {

    var next = output.append( input[i] );
    var bfn = next.getProperty('BaseFilename');
    var ffn = next.getProperty('FullFilename');

    next.setProperty( 'ZipFullName', ffn );
    next.setProperty( 'ZipBaseName', bfn );
    next.setProperty( 'ZipSfx', next.getProperty( 'Suffix' ));

    var zipBfn = next.getProperty('ZipBaseFilename');
    var zipSfx = next.getProperty( 'ZipSuffix');
    var zipFfn = next.getProperty('ZipFullFilename');

    // want to convert "eICR.html" to "1.2.840.114350.1.13.296.3.7.8.688883.186069_20211101180952
    _CDA_eICR.html" to help group messages together
    next.setProperty( 'BaseFilename', ( bfn + '_' + zipBfn ) );
    next.setProperty( 'FullFilename', ( bfn + '_' + zipFfn ) );
    next.setProperty( 'Suffix', zipSfx );

    var zbn = next.getProperty( 'ZipBaseName' ) || ''; // if coming from a .zip file then we
    could stuff output into a directory by its file name to keep files together
    var bfn = next.getProperty( "BaseFilename" );
    var sfx = next.getProperty( "Suffix" ) || ".NONE";
    var Folder_BASE = getVariable("Folder_BASE");

    var dt = new Date();
    // example = eICR/2021/10/04/html
    var relPath = "file://" + Folder_BASE + "/eCR" + "/" + dt.getFullYear() + "/" + ("0" + (dt.getMonth()
    ()+1)).slice(-2) + "/" + ("0" + (dt.getDate())).slice(-2) + "/" + sfx.replace( '.', '' ).toLowerCase();
    relPath=relPath.replace("\xml","/html")
    relPath=relPath.replace("\meta","/html")
    //log.debug ("relpath:"+relPath);
    next.setProperty( "externalHTMLLink", relPath + "/" + zbn+_CDA_eICR.html" );
}

}

```

## Destinations

| Name  | Page                              |
|---|-----------------------------------|
|  out_Preprocess..... | Dynamic Router <a href="#">45</a> |

## Noop Zip

No-operation

Filter

On ECR\_3\_Unzip route

## Destinations

| Name                | Page                          |
|---------------------|-------------------------------|
| InjectMetadata..... | JavaScript <a href="#">28</a> |



## Unzip

### Zip / Unzip

On ECR\_3\_Unzip route

Filter

| Configuration Properties  |                           |
|---------------------------|---------------------------|
| Mode                      | Unzip                     |
| On Non-zip File Receipt   | Send to error connector   |
| On Empty Zip File Receipt | Send to error connector   |
| Filename Encoding         | Default platform encoding |

## Destinations

| Name                   | Page                           |
|------------------------|--------------------------------|
| SetFileProperties..... | JavaScript <a href="#">25</a>  |
| Error Connector        | Page                           |
| Unzip fail.....        | Error Queue <a href="#">29</a> |



## No-operation

### No-operation

On ECR\_3\_Unzip route

Filter

## Destinations

| Name                | Page                          |
|---------------------|-------------------------------|
| js Adjustments..... | JavaScript <a href="#">29</a> |



## Timeout

### No-operation

On ECR\_3\_Unzip route

Filter

## Destinations

| Name               | Page                    |
|--------------------|-------------------------|
| eCR_1_Timeout..... | Sink <a href="#">18</a> |

## Noop Meta

**No-operation**

On ECR\_3\_Unzip route

Filter

### Destinations

| Name                | Page          |
|---------------------|---------------|
| InjectMetadata..... | JavaScript 28 |

## EnterRt

**No-operation**

On ECR\_3\_Unzip route

Filter

### Destinations

| Name                                 | Page            |
|--------------------------------------|-----------------|
| Output Condition: Meta?              |                 |
| Suffix contains 'meta' ignoring case |                 |
| Noop Meta.....                       | No-operation 27 |
| Output Condition: Zip?               |                 |
| Suffix contains 'zip' ignoring case  |                 |
| Noop Zip.....                        | No-operation 25 |

## Increment Counter

Filter

**Database LookUp**

On ECR\_3\_Unzip route

| Configuration Properties  |                     |
|---|---------------------|
| Maximum Concurrency   | 0                   |
| Database  | Manual setting      |
| Configuration File  | Database_LookUp.xml |
| Message Type  | Plain text          |
| Definition  |                     |
| Query Timeout   | 0                   |
| Deadlock Retry Attempts   | 5                   |
| Deadlock Retry Delay  | 100                 |
| Socket Timeout  | 0                   |
| Configuration File: Database LookUp.xml   |                     |
| <config xmlns:ide="http://www.orionhealth.com/Rhapsody/IDE" xmlns:user="http://www.orionhealth.com/Rhapsody/IDE/UserData" version="6" ide:version="6.4.0.66863" ide:idcCompatibleVersion="3.0" ide:connectionName="Rhapsody"> |                     |

**Configuration File: Database LookUp.xml**

```

<driver>net.sourceforge.jtds.jdbc.Driver</driver>
<url>${RHAP_URL}</url>
<username />
<password />
<binaryEncoding>base64</binaryEncoding>
<statement name="Call Stored Proc" ide:type="executeSql" ide:allowCompoundStatements="true">
  <sql>EXEC [Tracking].[IncrementCounter]
$mmdd_actualsendername, <!--// partner-->
$mmdd_actualdocumenttype <!--// document type--></sql>
</statement>
</config>
```

**Destinations**

| Name        | Page               |
|-------------|--------------------|
| Zip / Unzip | <a href="#">26</a> |

 **InjectMetadata**  
**JavaScript**  
 On ECR\_3\_Unzip route
**Filter****Javascript**

```

// this is why we set the metadata file to index 0 explicitly; loop can just start at 1 and we
// can target the metadata property.
var sender = '';
sender = input[0].text; //Comes from Metadata

for (var i = 1; i < input.length; i++) //ZipFile
{
  var next = output.append( input[i] );
  if(i == 1)
  {
    var obj = JSON.parse(sender);
    next.setProperty( 'AIMSPlatformFilename', next.getProperty( 'FullFilename' ) );
    next.setProperty( 'AIMSPlatformSender', sender );
    next.setProperty( 'mmd_actualsenderid', obj.sender );
    next.setProperty( 'mmd_actualsendername', obj.senderName );
    next.setProperty( 'mmd_actualdocumenttype', 'eCRZIP' );
  }
}
```

**Message Collector: Input Collation**

|                     |   |
|---------------------|---|
| Collection Order    | [ECR_3_Unzip/5d6ca3e3-2a78-4522-b146-0d8952540114,ECR_3_Unzip/4c6bcf47-5067-4527-bd0c-ec12ddf6c2e2] |
| Match Property      | BaseFilename  |
| Message Set Timeout | 30  |
| Timeout Units       | Seconds   |
| Timeout Destination | No-Match Connector  |

## Destinations

| Name                   | Page                            |
|------------------------|---------------------------------|
| Unzip.....             | Zip / Unzip <a href="#">26</a>  |
| <b>Error Connector</b> | <b>Page</b>                     |
| Timeout.....           | No-operation <a href="#">26</a> |

## Unzip fail

Filter

### Error Queue

On ECR\_3\_Unzip route

#### Configuration Properties

|               |                        |
|---------------|------------------------|
| Error Message | Sent from error filter |
|---------------|------------------------|

## js Adjustments

Filter

### JavaScript

On ECR\_3\_Unzip route

#### Javascript

```

var next = output.append( input[0] );

var fullFileName = next.getProperty( 'FullFilename' ); // in case we need to parse file name
to determine document type
var fileName = next.getProperty( 'BaseFilename' );
var suffix = next.getProperty( 'Suffix' );

if ( suffix.indexOf( '.' ) > -1 ) {
suffix = suffix.replace( '.', '' ); // remove leading period so it doesn't get doubled-up by
concatenation later
}

next.setProperty( 'OriginalFilename', fullFileName );

// remove "(#)" (zero to many digits)
fileName = fileName.replace( /\((\d*)\)/ig, '' );
fullFileName = fullFileName.replace( /\((\d*)\)/ig, '' );

// save back to properties so we only have to do this once
next.setProperty( 'BaseFilename', fileName );
next.setProperty( 'FullFilename', fullFileName );

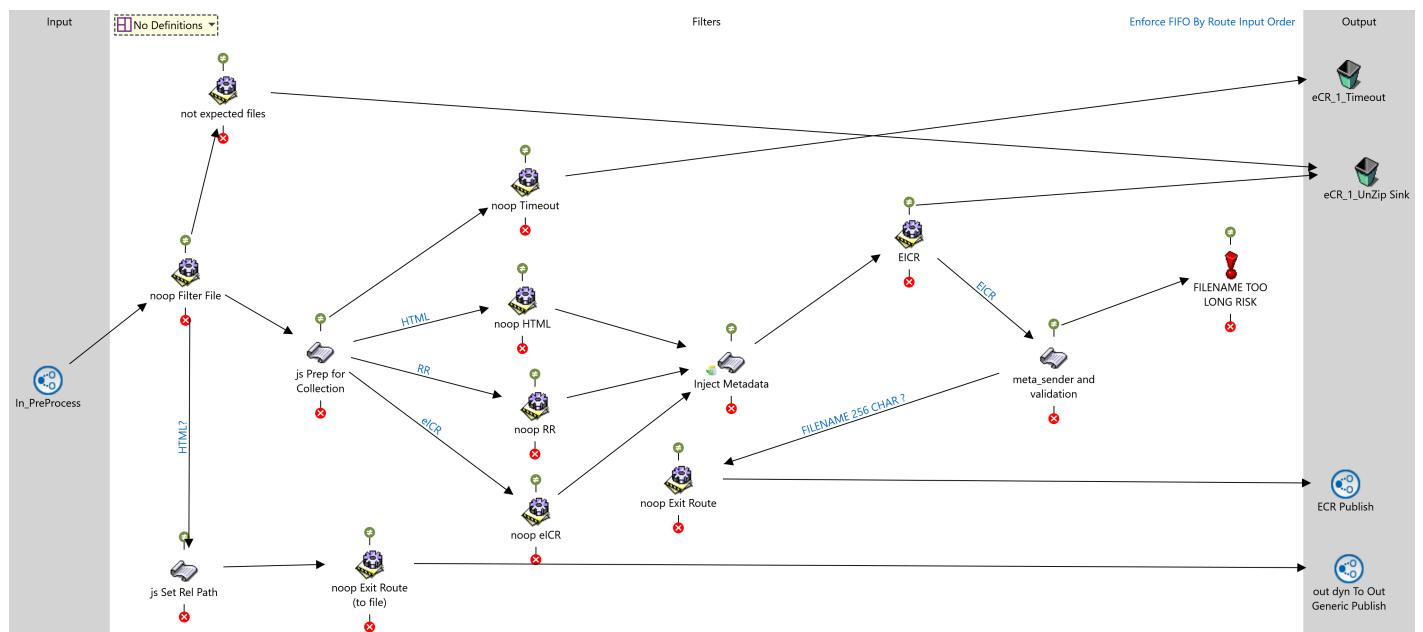
```

## Destinations

| Name                   | Page                               |
|------------------------|------------------------------------|
| Increment Counter..... | Database LookUp <a href="#">27</a> |

# ECR\_4\_Preprocessing

Route



## Notes

Author: Priya

Desc: Here are the steps involved in this route:

Unzipped files are processed in this route. Metadata property is set and sent for ECR processing.

| Inputs                                | Page              |
|---------------------------------------|-------------------|
| ⌚ In_PreProcess.....                  | Dynamic Router 40 |
| Outputs                               | Page              |
| 📦 eCR_1_Timeout.....                  | Sink 18           |
| 📦 eCR_1_UnZip Sink.....               | Sink 19           |
| ⌚ ECR Publish.....                    | Dynamic Router 3  |
| ⌚ out dyn To Out Generic Publish..... | Dynamic Router 43 |

## Filters

| Name                              | Page            |
|-----------------------------------|-----------------|
| ⌚ EICR.....                       | No-operation 34 |
| ❗ FILENAME TOO LONG RISK.....     | Error Queue 33  |
| ⚡ Inject Metadata.....            | JavaScript 35   |
| ⚡ js Prep for Collection.....     | JavaScript 32   |
| ⚡ js Set Rel Path.....            | JavaScript 36   |
| ⚡ meta_sender and validation..... | JavaScript 34   |
| ⌚ noop elCR.....                  | No-operation 34 |
| ⌚ noop Exit Route.....            | No-operation 33 |

| Name                           |              | Page               |
|--------------------------------|--------------|--------------------|
| noop Exit Route (to file)..... | No-operation | <a href="#">32</a> |
| noop Filter File.....          | No-operation | <a href="#">37</a> |
| noop HTML.....                 | No-operation | <a href="#">37</a> |
| noop RR.....                   | No-operation | <a href="#">34</a> |
| noop Timeout.....              | No-operation | <a href="#">36</a> |
| not expected files.....        | No-operation | <a href="#">32</a> |

## Details

| General                     |   |
|-----------------------------|---|
| Priority                    | Normal                                      |
| Startup State               | Startup Fourth (only if previously running) |
| FIFO Mode                   | Enforce FIFO By Route Input Order           |
| Stop route on error message | False                                       |

## noop Exit Route (to file)

Filter

**No-operation**

On ECR\_4\_Preprocessing route

**Destinations**

| Name  | Page                              |
|---|-----------------------------------|
|  out dyn To Out Generic Publish..... | Dynamic Router <a href="#">43</a> |

## not expected files

Filter

**No-operation**

On ECR\_4\_Preprocessing route

**Destinations**

| Name  | Page                    |
|---|-------------------------|
|  eCR_1_UnZip Sink..... | Sink <a href="#">19</a> |

## js Prep for Collection

Filter

**JavaScript**

On ECR\_4\_Preprocessing route

**Javascript**

```
//
// only expecting 2 files because .html files have already been diverted
//

var idx = 0; // won't necessarily process files in the correct order so can't rely on the loop
var

for ( var i = 0; i < input.length; i++ ) {

    var next = output.append( input[i] );

    var zfn = next.getProperty( 'ZipFullName' );
    var sfx = next.getProperty( 'Suffix' );

    // promote doc type to explicit property so we can make decisions. have to do this (again)
    after unzipping to pull
    // the right info from each individual file.
    var ffnUpper = next.getProperty( 'FullFilename' ).toUpperCase();
    //log.debug("FfnUpper: "+ffnUpper);
    var documentType = 'NULL';

    if ( ffnUpper.indexOf( '_RR.XML' ) > -1 )
    {
        var documentType = 'RR';
    }
    else if ( ffnUpper.indexOf( '_EICR.XML' ) > -1 )
    {
```

**Javascript**

```

var documentType = 'EICR';
}
else if ( ffnUpper.indexOf( '_EICR.HTML' ) > -1 )
{
  var documentType = 'HTML';
}
else
{
  var documentType = 'NULL';
}
next.setProperty( 'DocumentType', documentType );
}

```

**Destinations**

| Name  | Page                            |
|---|---------------------------------|
| Output Condition: eICR  |                                 |
| DocumentoType = 'EICR' ignoring case  |                                 |
|  noop eICR.....      | No-operation <a href="#">34</a> |
| Output Condition: HTML  |                                 |
| DocumentoType = 'HTML' ignoring case  |                                 |
|  noop HTML.....     | No-operation <a href="#">37</a> |
| Output Condition: RR  |                                 |
| DocumentoType = 'RR' ignoring case  |                                 |
|  noop RR.....      | No-operation <a href="#">34</a> |
| Error Connector   |                                 |
|  noop Timeout..... | No-operation <a href="#">36</a> |

 **noop Exit Route**

Filter

**No-operation**

On ECR\_4\_Preprocessing route

**Destinations**

| Name   | Page                             |
|--|----------------------------------|
|  ECR Publish..... | Dynamic Router <a href="#">3</a> |

 **FILENAME TOO LONG RISK**

Filter

**Error Queue**

On ECR\_4\_Preprocessing route

| Configuration Properties |                        |
|--------------------------|------------------------|
| Error Message            | Sent from error filter |



## noop RR

### No-operation

On ECR\_4\_Preprocessing route

Filter

## Destinations

| Name                 | Page          |
|----------------------|---------------|
| Inject Metadata..... | JavaScript 35 |



## EICR

### No-operation

On ECR\_4\_Preprocessing route

Filter

## Destinations

| Name                            | Page          |
|---------------------------------|---------------|
| Output Condition: EICR          |               |
| DocumentType = 'EICR'           |               |
| meta_sender and validation..... | JavaScript 34 |
| Error Connector                 | Page          |
| eCR_1_UnZip Sink.....           | Sink 19       |



## noop eICR

### No-operation

On ECR\_4\_Preprocessing route

Filter

## Destinations

| Name                 | Page          |
|----------------------|---------------|
| Inject Metadata..... | JavaScript 35 |



## meta\_sender and validation

JavaScript

Filter

On ECR\_4\_Preprocessing route

### JavaScript

```
/* Single input message case */
var next = output.append(input[0]);

var AIMSPlatformSender=next.getProperty("AIMSPlatformSender");
var BaseFilename=next.getProperty("BaseFilename")
var Folder_BASE=getVariable("Folder_BASE");

const obj = JSON.parse(AIMSPlatformSender);
next.setProperty("meta_sender", obj.sender);

var ValidationFilename= Folder_BASE +"ecrProcess_out_validations/" +BaseFilename+".AIMS.Base.validation.HTML"
if (ValidationFilename.length > 240)
{
  next.setProperty("FILENAMETOOLONG", "TRUE");
}
else
{
  next.setProperty("FILENAMETOOLONG", "FALSE");
}

// ValidationFilename = \\doh\app\Rhapsody\Dev\Data\Confidential\Rhapsody_DEV\ + "eCRProcess_out_validations" + meta_sender +"/"+ BaseFIlename +"1.2.840.114350.1.13.66.3.7.8.688883_htm
l truncation_CDA_eICR.xml.AIMS.Base.validation(1).HTML
```

## Destinations

| Name                                  | Page                            |
|---------------------------------------|---------------------------------|
| Output Condition: FILENAME 256 CHAR ? |                                 |
| FILENAMETOOLONG = 'FALSE'             |                                 |
| noop Exit Route.....                  | No-operation <a href="#">33</a> |
| Error Connector                       | <a href="#">Page</a>            |
| ❗ FILENAME TOO LONG RISK.....         | Error Queue <a href="#">33</a>  |

## Inject Metadata

### JavaScript

On ECR\_4\_Preprocessing route

Filter

### JavaScript

```
for (var i = 0; i < input.length; i++) {

  var next = output.append( input[i] );
  if (i == 0) next.setProperty("docRawHTML",input[2].text);
  if (i == 0) next.setProperty("docRawRRText",input[1].text);
  if (i == 0)
}
```

**Javascript**

```

next.setProperty("docRawText",next.text);
next.setProperty("eCRBodyEncoding",next.getProperty("rhapsody:BodyEncoding"));
}
}

```

**Message Collector: Input Collation**

|                     |  |
|---------------------|--|
| Collection Order    | [ECR_4_Preprocessing/96e9e921-f4d0-4e8a-8429-75bd14176b67,ECR_4_Preprocessing/4ee8c979-87fa-47db-b721-e87b5229b81f,ECR_4_Preprocessing/fd0a1053-8007-4dcc-9d27-2175836f7bdc] |
| Match Property      | \$ZipBaseName  |
| Message Set Timeout | 15   |
| Timeout Units       | Seconds  |
| Timeout Destination | No-Match Connector   |

**Destinations**

| Name  | Page                            |
|---|---------------------------------|
|  EICR..... | No-operation <a href="#">34</a> |

 **noop Timeout**

Filter

**No-operation**

On ECR\_4\_Preprocessing route

**Destinations**

| Name   | Page                    |
|--|-------------------------|
|  eCR_1_Timeout..... | Sink <a href="#">18</a> |

 **js Set Rel Path**

Filter

**JavaScript**

On ECR\_4\_Preprocessing route

**Javascript**

```

var next = output.append(input[0]);

var zbn = next.getProperty('ZipBaseName') || ''; // if coming from a .zip file then we could
stuff output into a directory by its file name to keep files together
var bfn = next.getProperty("BaseFilename");
var sfx = next.getProperty("Suffix") || ".NONE";

var dt = new Date();

// example = eICR/2021/10/04/html
var relPath = "eCR" + "/" + dt.getFullYear() + "/" + ("0"+(dt.getMonth()+1)).slice(-2) + "/" +
("0"+(dt.getDate())).slice(-2) + "/" + sfx.replace( '.', '' ).toLowerCase();

```

**Javascript**

```
next.setProperty( "BaseFilename", (relPath + "/" + bfn) );
next.setProperty( "__RelativePath", relPath );
```

**Destinations**

| Name   | Page                            |
|--|---------------------------------|
|  noop Exit Route (to file)..... | No-operation <a href="#">32</a> |

 **noop Filter File**

Filter

**No-operation**

On ECR\_4\_Preprocessing route

**Destinations**

| Name  | Page                            |
|---|---------------------------------|
|  js Prep for Collection..... | JavaScript <a href="#">32</a>   |
| <b>Output Condition: HTML?</b>  |                                 |
| Suffix ends with 'HTML' ignoring case   |                                 |
|  js Set Rel Path.....       | JavaScript <a href="#">36</a>   |
| Error Connector   | Page                            |
|  not expected files.....   | No-operation <a href="#">32</a> |

 **noop HTML**

Filter

**No-operation**

On ECR\_4\_Preprocessing route

**Destinations**

| Name   | Page                          |
|--|-------------------------------|
|  Inject Metadata..... | JavaScript <a href="#">35</a> |

 **In\_eCRFolder**
**Dynamic Router (Input Mode)**

Communication Point

| Configuration Properties |          |
|--------------------------|----------|
| Used on Routes           | Page     |
| ECR_2_MoveToFolder.....  | Route 20 |

**Details**

| Retries                     |  |
|-----------------------------|--|
| Retry Type                  | Linear                                     |
| Number of Retries           | 5  |
| Retries before Notification | 5  |
| Retry Delay (ms)            | 5000                                       |
| Properties                  |  |
| Idle Timeout (ms)           | 0  |
| Number of Connections       | 1  |
| Startup State               | Startup First (only if previously running) |
| Input Message Encoding      | Unknown / Not Set                          |



## In\_FromRouteDown

Directory (Input Mode)

Communication Point

| Configuration Properties   |  |
|--|--|
| Input Directory  | \$Folder_eCR\Route_Input = "\doh\app\Rhapsody\PROD\Data\eCR\Route_Input" |
| Input Control File Mode  | false  |
| Pattern Type   | Wildcards  |
| Pattern  | *  |
| Exclude Pattern Type   | Wildcards  |
| Exclude Pattern  |  |
| Input Order  | None   |
| Refresh Rate   | 5000   |
| Receive Rate   | 0  |
| Move Input Files   | false  |
| Zip File Debatch Mode  | false  |
| Debatch Mode   | false  |
| Maximum File Size (MB)   | 0  |
| Include Empty Files  | false  |
| Used on Routes   |  |
|  ECR_0_Receiving..... | Route 5  |

## Details

| Retries                     |  |
|-----------------------------|--|
| Retry Type                  | Linear                                     |
| Number of Retries           | 5  |
| Retries before Notification | 5  |
| Retry Delay (ms)            | 5000                                       |
| Properties                  |  |
| Idle Timeout (ms)           | 0  |
| Number of Connections       | 1  |
| Startup State               | Startup First (only if previously running) |
| Input Message Encoding      | Unknown / Not Set                          |



# In\_PreProcess

## Dynamic Router (Input Mode)

Communication Point

| Configuration Properties |               |
|--------------------------|---------------|
| Target Name              | eCRPreprocess |
| Unique Target Name       | false         |
| Used on Routes           | Page          |
| ECR_4_Preprocessing..... | Route 30      |

## Details

| Retries                     |  |
|-----------------------------|--|
| Retry Type                  | Linear                                     |
| Number of Retries           | 5  |
| Retries before Notification | 5  |
| Retry Delay (ms)            | 5000                                       |
| Properties                  |  |
| Idle Timeout (ms)           | 0  |
| Number of Connections       | 1  |
| Startup State               | Startup First (only if previously running) |
| Input Message Encoding      | Unknown / Not Set                          |



# In\_RouteDown

## Dynamic Router (Input Mode)

Communication Point

| Configuration Properties |               |
|--------------------------|---------------|
| Target Name              | @eCRRouteDown |
| Unique Target Name       | true          |
| Used on Routes           | Page          |
| ECR_1_RouteDown.....     | Route 10      |

## Details

| Retries                     |  |
|-----------------------------|--|
| Retry Type                  | Linear                                     |
| Number of Retries           | 5  |
| Retries before Notification | 5  |
| Retry Delay (ms)            | 5000                                       |
| Properties                  |  |
| Idle Timeout (ms)           | 0  |
| Number of Connections       | 1  |
| Startup State               | Startup First (only if previously running) |
| Input Message Encoding      | Unknown / Not Set                          |

**In\_Unzip****Dynamic Router (Input Mode)****Communication Point**

| Configuration Properties |                          |
|--------------------------|--------------------------|
| Target Name              | @eCRZipPreprocessing     |
| Unique Target Name       | true                     |
| Used on Routes           |                          |
| ECR_3_Unzip.....         | Route <a href="#">23</a> |

**Details**

| Retries                     |  |
|-----------------------------|--|
| Retry Type                  | Linear                                     |
| Number of Retries           | 5  |
| Retries before Notification | 5  |
| Retry Delay (ms)            | 5000                                       |
| Properties                  |  |
| Idle Timeout (ms)           | 0  |
| Number of Connections       | 1  |
| Startup State               | Startup First (only if previously running) |
| Input Message Encoding      | Unknown / Not Set                          |



# out dyn To Out Generic Publish

## Dynamic Router (Output Mode)

Communication Point

| Configuration Properties                      |                               |
|---|-------------------------------|
| Delivery Mode                                 | Always Use Static Destination |
| Static Destination                            | @toOUT_Generic                |
| Index Message Properties                      | false                         |
| Used on Routes                                | Page                          |
| [+] <a href="#">ECR_2_MoveToFolder</a> .....  | Route 20                      |
| [+] <a href="#">ECR_4_Preprocessing</a> ..... | Route 30                      |

## Details

| Retries                     |  |
|-----------------------------|--|
| Retry Type                  | Linear                                     |
| Number of Retries           | 5  |
| Retries before Notification | 5  |
| Retry Delay (ms)            | 5000                                       |
| Properties                  |  |
| Idle Timeout (ms)           | 0  |
| Number of Connections       | 1  |
| Startup State               | Startup First (only if previously running) |
| Continue Routing Enabled    | False                                      |



## out\_eCRFolder

Dynamic Router (Output Mode)

Communication Point

| Configuration Properties   |                               |
|--|-------------------------------|
| Delivery Mode  | Always Use Static Destination |
| Static Destination   | @eCRFolder                    |
| Index Message Properties   | false                         |
| Used on Routes   |                               |
|  ECR_1_RouteDown..... | Route <a href="#">10</a>      |

## Details

| Retries                     |  |
|-----------------------------|--|
| Retry Type                  | Linear                                     |
| Number of Retries           | 5  |
| Retries before Notification | 5  |
| Retry Delay (ms)            | 5000                                       |
| Properties                  |  |
| Idle Timeout (ms)           | 0  |
| Number of Connections       | 1  |
| Startup State               | Startup First (only if previously running) |
| Continue Routing Enabled    | False                                      |



# out\_Preprocess

**Dynamic Router (Output Mode)**

Communication Point

| Configuration Properties |                               |
|--------------------------|-------------------------------|
| Delivery Mode            | Always Use Static Destination |
| Static Destination       | @eCRPreprocess                |
| Index Message Properties | false                         |
| Used on Routes           | Page                          |
| ECR_3_Unzip.....         | Route 23                      |

**Details**

| Retries                     |  |
|-----------------------------|--|
| Retry Type                  | Linear                                     |
| Number of Retries           | 5  |
| Retries before Notification | 5  |
| Retry Delay (ms)            | 5000                                       |
| Properties                  |  |
| Idle Timeout (ms)           | 0  |
| Number of Connections       | 1  |
| Startup State               | Startup First (only if previously running) |
| Continue Routing Enabled    | False                                      |



# out\_RouteDown

**Dynamic Router (Output Mode)**

Communication Point

| Configuration Properties |                               |
|--------------------------|-------------------------------|
| Delivery Mode            | Always Use Static Destination |
| Static Destination       | @eCRRouteDown                 |
| Index Message Properties | false                         |
| Used on Routes           | Page                          |
| ECR_0_Receiving.....     | Route 5                       |

**Details**

| Retries                     |  |
|-----------------------------|--|
| Retry Type                  | Linear                                     |
| Number of Retries           | 5  |
| Retries before Notification | 5  |
| Retry Delay (ms)            | 5000                                       |
| Properties                  |  |
| Idle Timeout (ms)           | 0  |
| Number of Connections       | 1  |
| Startup State               | Startup First (only if previously running) |
| Continue Routing Enabled    | False                                      |



## Out\_ToRouteDownDir

Directory (Output Mode)

Communication Point

| Configuration Properties   |  |
|--|--|
| Output Directory   | \$(Folder_eCR_RouteDown)\Route_Input = "\\\doh\app\Rhapsody\QA\Data\_OB\eCR\Route_Input" |
| Output Control File Mode   | Disabled   |
| Base Filename  | \$BaseFilename   |
| Suffix   | \$Suffix   |
| Append Date/Time   | false  |
| Overwrite Files  | false  |
| Output temporary file to   | .temp directory  |
| Batch Mode   | false  |
| Used on Routes   |  |
|  ECR_1_RouteDown..... | Route 10   |

## Details

| Retries                     |  |
|-----------------------------|--|
| Retry Type                  | Linear                                     |
| Number of Retries           | 5  |
| Retries before Notification | 5  |
| Retry Delay (ms)            | 5000                                       |
| Properties                  |  |
| Idle Timeout (ms)           | 0  |
| Number of Connections       | 1  |
| Startup State               | Startup First (only if previously running) |
| Continue Routing Enabled    | False                                      |



## out\_Unzip

Dynamic Router (Output Mode)

Communication Point

| Configuration Properties |                               |
|--------------------------|-------------------------------|
| Delivery Mode            | Always Use Static Destination |
| Static Destination       | @eCRZipPreprocessing          |
| Index Message Properties | false                         |
| Used on Routes           | Page                          |
| ECR_1_RouteDown.....     | Route 10                      |

## Details

| Retries                     |  |
|-----------------------------|--|
| Retry Type                  | Linear                                     |
| Number of Retries           | 5  |
| Retries before Notification | 5  |
| Retry Delay (ms)            | 5000                                       |
| Properties                  |  |
| Idle Timeout (ms)           | 0  |
| Number of Connections       | 1  |
| Startup State               | Startup First (only if previously running) |
| Continue Routing Enabled    | False                                      |



## TestInputDirectory

Directory (Input Mode)

Communication Point

| Configuration Properties   |  |
|--|--|
| Input Directory  | \$(Folder_eCR)\Preprocess_test = "\\\doh\app\Rhapsody\PROD\Data\eCR\Preprocess_test" |
| Input Control File Mode  | false  |
| Pattern Type   | Wildcards  |
| Pattern  |  |
| Exclude Pattern Type   | Wildcards  |
| Exclude Pattern  |  |
| Input Order  | None   |
| Refresh Rate   |  |
| Receive Rate   |  |
| Move Input Files   | false  |
| Zip File Debatch Mode  | false  |
| Debatch Mode   | false  |
| Maximum File Size (MB)   |  |
| Include Empty Files  | false  |
| Used on Routes   |  |
|  ECR_3_Unzip..... | Route 23   |

## Details

| Retries                     |  |
|-----------------------------|--|
| Retry Type                  | Linear                                     |
| Number of Retries           | 5  |
| Retries before Notification | 5  |
| Retry Delay (ms)            | 5000                                       |
| Properties                  |  |
| Idle Timeout (ms)           | 0  |
| Number of Connections       | 1  |
| Startup State               | Startup First (only if previously running) |
| Input Message Encoding      | Unknown / Not Set                          |



## toArchive2 publish

### Dynamic Router (Output Mode)

Communication Point

| Configuration Properties |                               |
|--------------------------|-------------------------------|
| Delivery Mode            | Always Use Static Destination |
| Static Destination       | @toARCHIVE2                   |
| Index Message Properties | false                         |
| Used on Routes           | Page                          |
| [+] ECR_1_RouteDown..... | Route <a href="#">10</a>      |

## Details

| Retries                     |  |
|-----------------------------|--|
| Retry Type                  | Linear                                     |
| Number of Retries           | 5  |
| Retries before Notification | 5  |
| Retry Delay (ms)            | 5000                                       |
| Properties                  |  |
| Idle Timeout (ms)           | 0  |
| Number of Connections       | 1  |
| Startup State               | Startup First (only if previously running) |
| Continue Routing Enabled    | False                                      |



# ViaEmailPublish

## Dynamic Router (Output Mode)

Communication Point

| Configuration Properties |                               |
|--------------------------|-------------------------------|
| Delivery Mode            | Always Use Static Destination |
| Static Destination       | @viaEMAIL                     |
| Index Message Properties | false                         |
| Used on Routes           | Page                          |
| ECR_2_MoveToFolder.....  | Route 20                      |

## Details

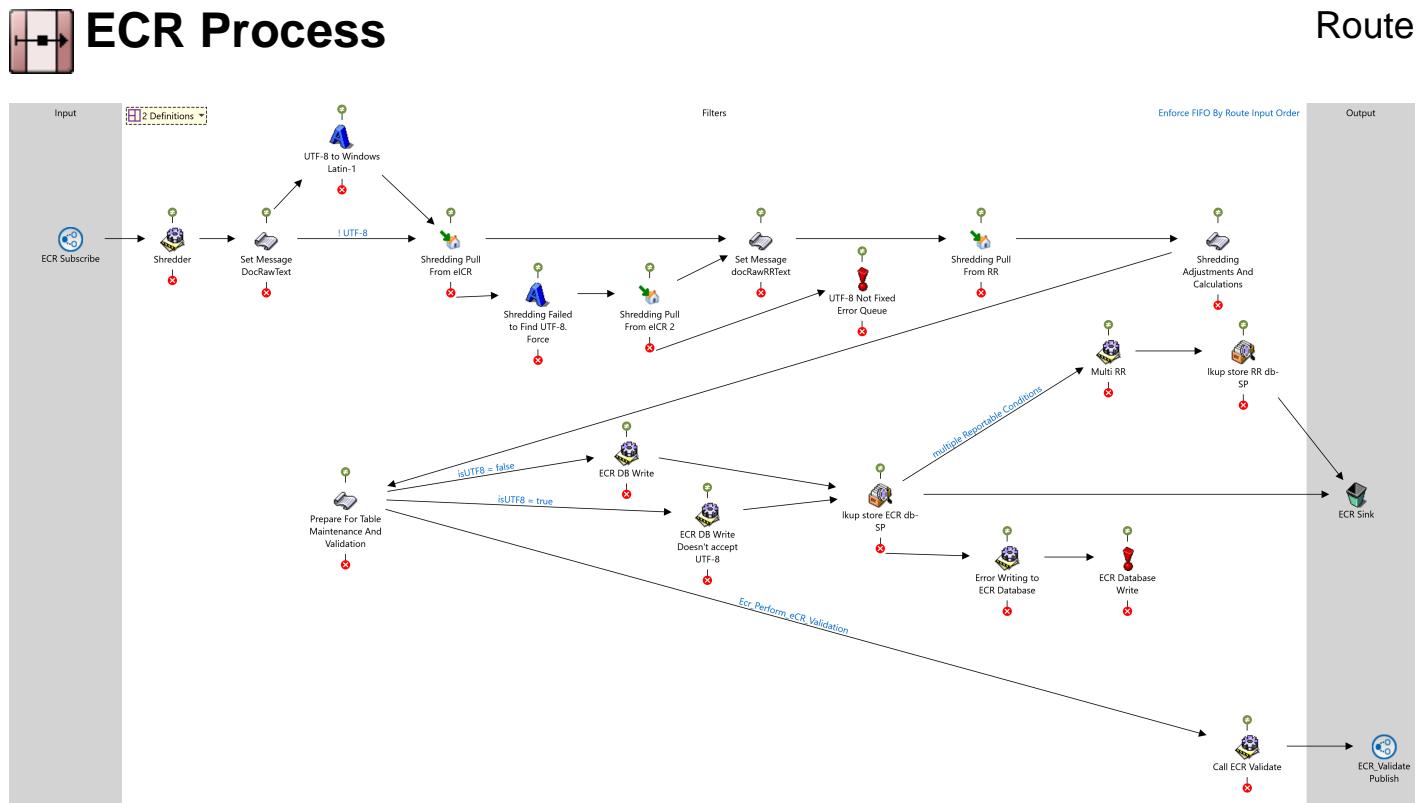
| Retries                     |  |
|-----------------------------|--|
| Retry Type                  | Linear                                     |
| Number of Retries           | 5  |
| Retries before Notification | 5  |
| Retry Delay (ms)            | 5000                                       |
| Properties                  |  |
| Idle Timeout (ms)           | 0  |
| Number of Connections       | 1  |
| Startup State               | Startup First (only if previously running) |
| Continue Routing Enabled    | False                                      |

# 02\_ECR\_Load

Full Path /ECR/02\_ECR\_Load

Folder

| Summary                    |      |                |      |
|----------------------------|------|----------------|------|
| Communication Points (4)   |      |                |      |
| Route (1)                  |      |                |      |
| Folder Contents            |      |                |      |
| Icon                       | Name | Type           | Page |
| ECR Process.....           |      | Route          | 53   |
| ECR Sink.....              |      | Sink           | 85   |
| ECR Subscribe.....         |      | Dynamic Router | 86   |
| ECR_Validate Publish.....  |      | Dynamic Router | 87   |
| toOUT_Generic publish..... |      | Dynamic Router | 88   |



| Inputs                    | Page              |
|---------------------------|-------------------|
| ECR Subscribe.....        | Dynamic Router 86 |
| Outputs                   | Page              |
| ECR Sink.....             | Sink 85           |
| ECR_Validate Publish..... | Dynamic Router 87 |

## Filters

| Name  | Page               |
|---|--------------------|
| Call ECR Validate.....                            | No-operation 67    |
| ECR Database Write.....                           | Error Queue 71     |
| ECR DB Write.....                                 | No-operation 71    |
| ECR DB Write Doesn't accept UTF-8.....            | No-operation 71    |
| Error Writing to ECR Database.....                | No-operation 66    |
| Ikup store ECR db-SP.....                         | Database LookUp 63 |
| Ikup store RR db-SP.....                          | Database LookUp 68 |
| Multi RR.....                                     | No-operation 71    |
| Prepare For Table Maintenance And Validation..... | JavaScript 69      |
| Set Message docRawRRText.....                     | JavaScript 68      |
| Set Message DocRawText.....                       | JavaScript 67      |
| Shredder.....                                     | No-operation 67    |
| Shredding Adjustments And Calculations.....       | JavaScript 72      |

| Name   |                               | Page |
|--|-------------------------------|------|
| ⚠ Shredding Failed to Find UTF-8. Force..... | Character Encoding Translator | 70   |
| ⚡ Shredding Pull From eICR.....              | Property Population           | 55   |
| ⚡ Shredding Pull From eICR 2.....            | Property Population           | 75   |
| ⚡ Shredding Pull From RR.....                | Property Population           | 74   |
| ❗ UTF-8 Not Fixed Error Queue.....           | Error Queue                   | 70   |
| ⚠ UTF-8 to Windows Latin-1.....              | Character Encoding Translator | 66   |

## Details

| General                     |   |
|-----------------------------|---|
| Priority                    | Normal                                      |
| Startup State               | Startup Second (only if previously running) |
| FIFO Mode                   | Enforce FIFO By Route Input Order           |
| Stop route on error message | False                                       |

## Content Extraction

| Property Name                      | Messages         | Field Paths                |
|------------------------------------|------------------|----------------------------|
| <b>CDA.xsd</b>                     |                  |                            |
| documentID                         | ClinicalDocument | /ClinicalDocument/id/@root |
| <b>simplifiedXML_eICR_V1.2.xsd</b> |                  |                            |



# Shredding Pull From eICR

Filter

**Property Population**

On ECR Process route

| Configuration Properties  |                            |   |
|---------------------------|----------------------------|---|
| Literal->Property Mapping |                            |   |
| Definition File           | CDA.xsd                    |   |
| Field->Property Mapping   | <b>Property</b>            | <b>Source Field</b>   |
|                           | social_history             | /ClinicalDocument/component/structuredBody/component/section[templatelId/@root="2.16.840.1.113883.10.20.22.2.17"]/entry   |
|                           | history_of_present_illness | /ClinicalDocument/component/structuredBody/component/section[templatelId/@root="1.3.6.1.4.1.19376.15.3.1.3.4"]/entry      |
|                           | plan_of_treatment          | /ClinicalDocument/component/structuredBody/component/section[templatelId/@root="2.16.840.1.113883.10.20.22.2.10"]/entry   |
|                           | encounters                 | /ClinicalDocument/component/structuredBody/component/section[templatelId/@root="2.16.840.1.113883.10.20.22.2.22.1"]/entry |
|                           | reason_for_visit           | /ClinicalDocument/component/structuredBody/component/section[templatelId/@root="2.16.840.1.113883.10.20.22.2.12"]/entry   |
|                           | immunizations              | /ClinicalDocument/component/structuredBody/component/section[templatelId/@root="2.16.840.1.113883.10.20.22.2.22.1"]/entry |
|                           | medications                | /ClinicalDocument/component/structuredBody/component/section[templatelId/@root="2.16.840.1.113883.10.20.22.2.38"]/entry   |
|                           | results                    | /ClinicalDocument/component/structuredBody/component/section[templatelId/@root="2.16.840.1.113883.10.20.22.2.3.1"]/entry  |
|                           | problems                   | /ClinicalDocument/component/structuredBody/component/section[templatelId/@root="2.16.840.1.113883.10.20.22.2.5.1"]/entry  |
|                           | patient_street_address_2   | /ClinicalDocument/recordTarget[1]/patientRole/addr[1]/streetAddressLine[2]  |
|                           | provider_facility_name     | /ClinicalDocument/componentOf/encounteringEncounter/responsibleParty/assignedEntity/representedOrganization/name          |
|                           | provider_facility_address  | /ClinicalDocument/componentOf/encounteringEncounter/responsible   |

| Configuration Properties |                            |   |
|--------------------------|----------------------------|---|
|                          | Property                   | Source Field  |
|                          |                            | Party/assignedEntity/representedOrganization/addr/streetAddressLine[1]  |
|                          | provider_facility_city     | /ClinicalDocument/componentOf/enccompassingEncounter/responsible Party/assignedEntity/representedOrganization/addr/city         |
|                          | provider_facility_state    | /ClinicalDocument/componentOf/enccompassingEncounter/responsible Party/assignedEntity/representedOrganization/addr/state        |
|                          | provider_facility_zip_code | /ClinicalDocument/componentOf/enccompassingEncounter/responsible Party/assignedEntity/representedOrganization/addr/postalCode   |
|                          | provider_facility_country  | /ClinicalDocument/componentOf/enccompassingEncounter/responsible Party/assignedEntity/representedOrganization/addr/country      |
|                          | provider_first_name        | /ClinicalDocument/componentOf/enccompassingEncounter/responsible Party/assignedEntity/assignedPerson/name/given[1]              |
|                          | provider_last_name         | /ClinicalDocument/componentOf/enccompassingEncounter/responsible Party/assignedEntity/assignedPerson/name/family                |
|                          | provider_id                | /ClinicalDocument/componentOf/enccompassingEncounter/responsible Party/assignedEntity/id/@extension                             |
|                          | provider_id_root           | /ClinicalDocument/componentOf/enccompassingEncounter/responsible Party/assignedEntity/id/@root                                  |
|                          | provider_phone             | /ClinicalDocument/componentOf/enccompassingEncounter/responsible Party/assignedEntity/telecom[contains(@value,"tel")]/@value    |
|                          | provider_fax               | /ClinicalDocument/componentOf/enccompassingEncounter/responsible Party/assignedEntity/telecom[contains(@value,"fax")]/@value    |
|                          | provider_email             | /ClinicalDocument/componentOf/enccompassingEncounter/responsible Party/assignedEntity/telecom[contains(@value,"mailto")]/@value |
|                          | provider_address           | /ClinicalDocument/componentOf/enccompassingEncounter/responsibleParty/assignedEntity/addr/streetAddressLine[1]                  |
|                          | provider_city              | /ClinicalDocument/componentOf/enccompassingEncounter/responsible Party/assignedEntity/addr/city                                 |

| Configuration Properties |                       |  |
|--------------------------|-----------------------|--|
|                          | Property              | Source Field   |
|                          | provider_state        | /ClinicalDocument/componentOf/enc/ompassingEncounter/responsibleParty/assignedEntity/addr/state  |
|                          | provider_zip_code     | /ClinicalDocument/componentOf/enc/ompassingEncounter/responsibleParty/assignedEntity/addr/postalCode   |
|                          | provider_country      | /ClinicalDocument/componentOf/enc/ompassingEncounter/responsibleParty/assignedEntity/addr/country  |
|                          | facility_org_id       | /ClinicalDocument/componentOf/enc/ompassingEncounter/location/healthCareFacility/id/@root  |
|                          | facility_org_type     | /ClinicalDocument/componentOf/enc/ompassingEncounter/location/healthCareFacility/code/@displayName   |
|                          | facility_org_phone    | /ClinicalDocument/componentOf/enc/ompassingEncounter/location/healthCareFacility/serviceProviderOrganization/telecom[contains(@value,"tel")]/@value    |
|                          | facility_org_fax      | /ClinicalDocument/componentOf/enc/ompassingEncounter/location/healthCareFacility/serviceProviderOrganization/telecom[contains(@value,"fax")]/@value    |
|                          | facility_org_email    | /ClinicalDocument/componentOf/enc/ompassingEncounter/location/healthCareFacility/serviceProviderOrganization/telecom[contains(@value,"mailto")]/@value |
|                          | facility_org_address  | /ClinicalDocument/componentOf/enc/ompassingEncounter/location/healthCareFacility/serviceProviderOrganization/addr/streetAddressLine[1]                 |
|                          | facility_org_city     | /ClinicalDocument/componentOf/enc/ompassingEncounter/location/healthCareFacility/serviceProviderOrganization/addr/city                                 |
|                          | facility_org_state    | /ClinicalDocument/componentOf/enc/ompassingEncounter/location/healthCareFacility/serviceProviderOrganization/addr/state                                |
|                          | facility_org_zip_code | /ClinicalDocument/componentOf/enc/ompassingEncounter/location/healthCareFacility/serviceProviderOrganization/addr/postalCode                           |
|                          | facility_org_county   | /ClinicalDocument/componentOf/enc/ompassingEncounter/location/healthCareFacility/serviceProviderOrganization/addr/count                                |

| Configuration Properties |                              |   |
|--------------------------|------------------------------|---|
|                          | Property                     | Source Field  |
|                          | facility_location_address    | /ClinicalDocument/componentOf/encompassingEncounter/location/healthCareFacility/location/addr/streetAddressLine[1]                            |
|                          | facility_location_city       | /ClinicalDocument/componentOf/encompassingEncounter/location/healthCareFacility/location/addr/city  |
|                          | facility_location_state      | /ClinicalDocument/componentOf/encompassingEncounter/location/healthCareFacility/location/addr/state   |
|                          | facility_location_zip_code   | /ClinicalDocument/componentOf/encompassingEncounter/location/healthCareFacility/location/addr/postalCode                                      |
|                          | facility_location_county     | /ClinicalDocument/componentOf/encompassingEncounter/location/healthCareFacility/location/addr/county  |
|                          | encounter_type               | /ClinicalDocument/componentOf/encompassingEncounter/code/@displayName   |
|                          | encounter_date_low           | /ClinicalDocument/componentOf/encompassingEncounter/effectiveTime/low/@value  |
|                          | encounter_date_high          | /ClinicalDocument/componentOf/encompassingEncounter/effectiveTime/high/@value   |
|                          | guardian_type                | /ClinicalDocument/recordTarget[1]/patientRole/patient/guardian[1]/code/@displayName   |
|                          | guardian_first_name          | /ClinicalDocument/recordTarget[1]/patientRole/patient/guardian[1]/guardianPerson/name/given[1]  |
|                          | guardian_phone               | /ClinicalDocument/recordTarget[1]/patientRole/patient/guardian[1]/telecom [substring(@value, 1, 4)="tel:"][[1]]/@value                        |
|                          | guardian_email               | /ClinicalDocument/recordTarget[1]/patientRole/patient/guardian[1]/telecom [substring(@value, 1, 7)="mailto:"][[1]]/@value                     |
|                          | emergency_contact_last_name  | /ClinicalDocument/participant[@type Code="IND"]/associatedEntity[@class Code="ECON"][[1]]/associatedPerson/name/family                        |
|                          | emergency_contact_first_name | /ClinicalDocument/participant[@type Code="IND"]/associatedEntity[@class Code="ECON"][[1]]/associatedPerson/name/given[1]                      |
|                          | emergency_contact_phone      | /ClinicalDocument/participant[@type Code="IND"]/associatedEntity[@class Code="ECON"][[1]]/telecom[substring(@value, 1, 4)="tel:"][[1]]/@value |

| Configuration Properties |  |  |
|--------------------------|--|--|
|                          | Property                                   | Source Field   |
|                          | emergency_contact_email                    | /ClinicalDocument/participant[@type Code="IND"]/associatedEntity[@class Code="ECON"][[1]/telecom[substring (@value, 1, 7)="mailto:"]]1]/@value |
|                          | patient_religious_affiliation              | /ClinicalDocument/recordTarget[1]/ patientRole/patient/religiousAffiliation Code/@displayName  |
|                          | patient_religious_affiliation_code         | /ClinicalDocument/recordTarget[1]/ patientRole/patient/religiousAffiliation Code/@code   |
|                          | patient_religious_affiliation_code _system | /ClinicalDocument/recordTarget[1]/ patientRole/patient/religiousAffiliation Code/@codeSystem   |
|                          | custodian_org_id                           | /ClinicalDocument/custodian[1]/ass ignedCustodian/representedCustodian Organization/id/@extension  |
|                          | custodian_org_id_root                      | /ClinicalDocument/custodian[1]/ass ignedCustodian/representedCustodian Organization/id/@root   |
|                          | custodian_org_street_address               | /ClinicalDocument/custodian[1]/ass ignedCustodian/representedCustodian Organization/addr/streetAddressLine                                     |
|                          | custodian_org_city                         | /ClinicalDocument/custodian[1]/ass ignedCustodian/representedCustodian Organization/addr/city  |
|                          | custodian_org_county                       | /ClinicalDocument/custodian[1]/ass ignedCustodian/representedCustodian Organization/addr/count   |
|                          | custodian_org_state                        | /ClinicalDocument/custodian[1]/ass ignedCustodian/representedCustodian Organization/addr/state   |
|                          | custodian_org_zip_code                     | /ClinicalDocument/custodian[1]/ass ignedCustodian/representedCustodian Organization/addr/postalCode  |
|                          | custodian_org_country                      | /ClinicalDocument/custodian[1]/ass ignedCustodian/representedCustodian Organization/addr/country   |
|                          | patient_sex_assigned_at_birth              | //observation[templateId/@root="2.16 .840.1.113883.10.20.22.4.200"]/value/ @displayName  |
|                          | patient_gender_identity                    | //observation[templateId/@root="2.16 .840.1.113883.10.20.34.3.45"]/value/ @displayName   |
|                          | patient_marital_status                     | /ClinicalDocument/recordTarget[1]/pat ientRole/patient/maritalStatusCode/ @displayName   |
|                          | patient_address_type                       | /ClinicalDocument/recordTarget[1]/pat ientRole/addr[1]/@use  |
|                          | patient_language                           | /ClinicalDocument/recordTarget[1]/pat ientRole/patient/languageCommunic  |

| Configuration Properties |                               |   |
|--------------------------|-------------------------------|---|
|                          | Property                      | Source Field  |
|                          |                               | action[preferenceInd[@value="true"]][1]/languageCode/@displayName   |
|                          | patient_language_code_system  | /ClinicalDocument/recordTarget[1]/patientRole/patient/languageCommunication[preferenceInd[@value="true"]][1]/languageCode/@codeSystem |
|                          | author_org_country            | /ClinicalDocument/author[1]/assignedAuthor/representedOrganization/addr/country   |
|                          | author_org_zip_code           | /ClinicalDocument/author[1]/assignedAuthor/representedOrganization/addr/postalCode  |
|                          | author_org_state              | /ClinicalDocument/author[1]/assignedAuthor/representedOrganization/addr/state   |
|                          | author_org_county             | /ClinicalDocument/author[1]/assignedAuthor/representedOrganization/addr/county  |
|                          | author_org_city               | /ClinicalDocument/author[1]/assignedAuthor/representedOrganization/addr/city  |
|                          | author_org_street_address     | /ClinicalDocument/author[1]/assignedAuthor/representedOrganization/addr/streetAddressLine[1]  |
|                          | author_country                | /ClinicalDocument/author[1]/assignedAuthor/addr/country   |
|                          | author_zip_code               | /ClinicalDocument/author[1]/assignedAuthor/addr/postalCode  |
|                          | author_state                  | /ClinicalDocument/author[1]/assignedAuthor/addr/state   |
|                          | author_county                 | /ClinicalDocument/author[1]/assignedAuthor/addr/county  |
|                          | author_city                   | /ClinicalDocument/author[1]/assignedAuthor/addr/city  |
|                          | author_street_address         | /ClinicalDocument/author[1]/assignedAuthor/addr/streetAddressLine[1]  |
|                          | author_first_name             | /ClinicalDocument/author[1]/assignedAuthor/assignedPerson/name/given[1]   |
|                          | author_id_root                | /ClinicalDocument/author[1]/assignedAuthor/id/@root   |
|                          | author_id                     | /ClinicalDocument/author[1]/assignedAuthor/id/@extension  |
|                          | patient_deceased_indicator    | /ClinicalDocument/recordTarget/patientRole/patient/deceasedInd/@value   |
|                          | patient_ethnicity_code_system | /ClinicalDocument/recordTarget[1]/patientRole/patient/ethnicGroupCode[1]/@codeSystem  |

| Configuration Properties |                            |   |
|--------------------------|----------------------------|---|
|                          | Property                   | Source Field  |
|                          | patient_ethnicity          | /ClinicalDocument/recordTarget[1]/patientRole/patient/ethnicGroupCode[1]/@displayName   |
|                          | patient_ethnicity_code     | /ClinicalDocument/recordTarget[1]/patientRole/patient/ethnicGroupCode[1]/@code  |
|                          | patient_cell_number        | /ClinicalDocument/recordTarget[1]/patientRole/telecom[@use="MC"][1]/@value  |
|                          | patient_race_code          | /ClinicalDocument/recordTarget[1]/patientRole/patient/raceCode[1]/@code   |
|                          | patient_race_code_system   | /ClinicalDocument/recordTarget[1]/patientRole/patient/raceCode[1]/@codeSystem   |
|                          | patient_race               | /ClinicalDocument/recordTarget[1]/patientRole/patient/raceCode[1]/@displayName  |
|                          | patient_language_code      | /ClinicalDocument/recordTarget[1]/patientRole/patient/languageCommunication[preferenceInd[@value="true"]][1]/languageCode/@code |
|                          | SimplifierVersion          | /xmlMessage/simplifiedVersion   |
|                          | doc_id_root                | /ClinicalDocument/id/@root  |
|                          | set_id_assigning_authority | /ClinicalDocument/setId/@assigningAuthorityName   |
|                          | set_id_extension           | /ClinicalDocument/setId/@extension  |
|                          | encounter_version          | /ClinicalDocument/versionNumber/@value  |
|                          | author_family_name         | /ClinicalDocument/author[1]/assignedAuthor/assignedPerson/name/family   |
|                          | author_software_name       | /ClinicalDocument/author/assignedAuthor/assignedAuthoringDevice[1]/softwareName   |
|                          | custodian_org_name         | /ClinicalDocument/custodian[1]/assignedCustodian/representedCustodianOrganization/name  |
|                          | patient_id_authority       | /ClinicalDocument/recordTarget[1]/patientRole/id[1]/@root   |
|                          | patient_id                 | /ClinicalDocument/recordTarget[1]/patientRole/id[1]/@extension  |
|                          | patient_first_name         | /ClinicalDocument/recordTarget[1]/patientRole/patient/name[1]/given[1]  |
|                          | patient_middle_name        | /ClinicalDocument/recordTarget[1]/patientRole/patient/name[1]/given[2]  |
|                          | patient_family_name        | /ClinicalDocument/recordTarget[1]/patientRole/patient/name[1]/family  |

| Configuration Properties |                                     |   |
|--------------------------|-------------------------------------|---|
|                          | Property                            | Source Field  |
|                          | patient_administrative_gender       | /ClinicalDocument/recordTarget[1]/patientRole/patient/administrativeGenderCode/@displayName                       |
|                          | patient_street_address_1            | /ClinicalDocument/recordTarget[1]/patientRole/addr[1]/streetAddressLine[1]  |
|                          | patient_city                        | /ClinicalDocument/recordTarget[1]/patientRole/addr[1]/city  |
|                          | patient_state                       | /ClinicalDocument/recordTarget[1]/patientRole/addr[1]/state   |
|                          | patient_zip_code                    | /ClinicalDocument/recordTarget[1]/patientRole/addr[1]/postalCode  |
|                          | patient_county                      | /ClinicalDocument/recordTarget[1]/patientRole/addr[1]/county[1]   |
|                          | patient_country                     | /ClinicalDocument/recordTarget[1]/patientRole/addr[1]/country   |
|                          | patient_address_useable_period_high | /ClinicalDocument/recordTarget[1]/patientRole/addr[1]/useablePeriod/high/@value                                   |
|                          | patient_address_useable_period_low  | /ClinicalDocument/recordTarget[1]/patientRole/addr[1]/useablePeriod/low/@value                                    |
|                          | patient_home_number                 | /ClinicalDocument/recordTarget[1]/patientRole/telecom[@use="HP"][[1]/@value                                       |
|                          | patient_email                       | /ClinicalDocument/recordTarget[1]/patientRole/telecom[contains(@value,"mailto")][1]/@value                        |
|                          | guardian_last_name                  | /ClinicalDocument/recordTarget[1]/patientRole/patient/guardian[1]/guardianPerson/name/family                      |
|                          | encounter_id                        | /ClinicalDocument/componentOf/enccompassingEncounter/id/@extension  |
|                          | facility_location_name              | /ClinicalDocument/componentOf/enccompassingEncounter/location/healthCareFacility/location/name                    |
|                          | facility_org_name                   | /ClinicalDocument/componentOf/enccompassingEncounter/location/healthCareFacility/serviceProviderOrganization/name |
|                          | patient_date_of_birth               | /ClinicalDocument/recordTarget[1]/patientRole/patient/birthTime/@value  |
|                          | doc_effective_time                  | /ClinicalDocument/effectiveTime/@value  |
|                          | patient_date_of_death               | /ClinicalDocument/recordTarget[1]/patientRole/patient/deceasedTime/@value   |
|                          | rr_manual_initiation                | /ClinicalDocument/documentationOf/serviceEvent/code[@code="PHC1464"]/@displayName                                 |

| Configuration Properties |                              |                                 |
|--------------------------|------------------------------|---------------------------------|
|                          | Property                     | Source Field                    |
| On Field Missing         | doc_id_extension             | /ClinicalDocument/id/@extension |
|                          | Continue processing on route |                                 |

## Destinations

| Name                                       | Page                             |
|--|----------------------------------|
| Set Message docRawRRText.....              | JavaScript 68                    |
| Error Connector                            | Page                             |
| Shredding Failed to Find UTF-8. Force..... | Character Encoding Translator 70 |

## Ikup store ECR db-SP

Filter

### Database LookUp

On ECR Process route

| Configuration Properties |                           |
|--------------------------|---------------------------|
| Maximum Concurrency      | 0                         |
| Database                 | Manual setting            |
| Configuration File       | ECR Table Maintenance.xml |
| Message Type             | Plain text                |
| Definition               |                           |
| Query Timeout            |                           |
| Deadlock Retry Attempts  | 5                         |
| Deadlock Retry Delay     | 100                       |
| Socket Timeout           | 0                         |

### Configuration File: ECR Table Maintenance.xml

```

<config xmlns:ide="http://www.orionhealth.com/Rhapsody/IDE" xmlns:user="http://www.orionhealth.com/Rhapsody/IDE/UserData" version="6" ide:version="6.9.1.78122" ide:idCompatibleVersion="3.0" ide:connectionName="eICR database">
  <driver>net.sourceforge.jtds.jdbc.Driver</driver>
  <url>${dbConn_eICR}</url>
  <username />
  <password />
  <convertNullFields />
  <binaryEncoding>base64</binaryEncoding>
  <statement name="upsert ECR Tables" ide:type="executeStoredProcedure" ide:allowCompoundStatements="false">
    <procedure>{
      CALL upsert_eCR_tables(
        $patient_id_authority
        , $patient_id
        , $doc_id_root
        , $doc_id_extension
        , $patient_date_of_birth
        , $patient_first_name
        , $patient_family_name
        , $facility_org_name
    }
  
```

**Configuration File: ECR Table Maintenance.xml**

```
,$facility_location_name
,$docRawText
,$docSimplifierText
,$docRawRRTText
,$docRawHTMLText
,$externalHTMLLink
,$SimplifierVersion
,$upsertedBy
,$doc_effective_time
,$meta_sender
,$filename
,$patient_middle_name
,$set_id_extension
,$set_id_assigning_authority
,$rrr_condition_code
,$rrr_display_name
,$rrr_manual_initiation
,$patient_administrative_gender
,$patient_street_address_1
,$patient_street_address_2
,$patient_city
,$patient_county
,$patient_state
,$patient_zip_code
,$patient_country
,$patient_address_useable_period_low
,$patient_address_useable_period_high
,$patient_home_number
,$patient_email
,$patient_deceased_indicator
,$patient_date_of_death
,$guardian_last_name
,$encounter_id
,$encounter_version
,$patient_race_code
,$patient_race
,$patient_race_code_system
,$patient_ethnicity_code
,$patient_ethnicity
,$patient_ethnicity_code_system
,$patient_language_code
,$patient_language
,$patient_language_code_system
,$author_id
,$author_id_root
,$author_family_name
,$author_first_name
,$author_software_name
,$author_street_address
,$author_city
,$author_county
,$author_state
,$author_zip_code
,$author_country
,$author_org_street_address
,$author_org_city
,$author_org_county
,$author_org_state
```

**Configuration File: ECR Table Maintenance.xml**

```
,$author_org_zip_code  
,$author_org_country  
,$custodian_org_id  
,$custodian_org_id_root  
,$custodian_org_name  
,$custodian_org_street_address  
,$custodian_org_city  
,$custodian_org_county  
,$custodian_org_state  
,$custodian_org_zip_code  
,$custodian_org_country  
,$patient_sex_assigned_at_birth  
,$patient_gender_identity  
,$patient_religious_affiliation  
,$patient_marital_status  
,$patient_address_type  
,$patient_cell_number  
,$guardian_type  
,$guardian_first_name  
,$guardian_phone  
,$guardian_email  
,$emergency_contact_last_name  
,$emergency_contact_first_name  
,$emergency_contact_phone  
,$emergency_contact_email  
,$encounter_type  
,$encounter_date_low  
,$encounter_date_high  
,$facility_location_address  
,$facility_location_city  
,$facility_location_state  
,$facility_location_zip_code  
,$facility_location_county  
,$facility_org_id  
,$facility_org_type  
,$facility_org_phone  
,$facility_org_fax  
,$facility_org_email  
,$facility_org_address  
,$facility_org_city  
,$facility_org_state  
,$facility_org_zip_code  
,$facility_org_county  
,$provider_first_name  
,$provider_last_name  
,$provider_id  
,$provider_id_root  
,$provider_phone  
,$provider_fax  
,$provider_email  
,$provider_address  
,$provider_city  
,$provider_state  
,$provider_zip_code  
,$provider_country  
,$provider_facility_name  
,$provider_facility_address  
,$provider_facility_city
```

**Configuration File: ECR Table Maintenance.xml**

```

,$provider_facility_state
,$provider_facility_zip_code
,$provider_facility_country
,$patient_religious_affiliation_code_system
,$patient_religious_affiliation_code

)

}
</statement>
</config>
```

**Destinations**

| Name   | Page                            |
|--|---------------------------------|
| ECR Sink.....                                    | Sink <a href="#">85</a>         |
| Output Condition: multiple Reportable Conditions |                                 |
| all_condition_codes contains ','                 |                                 |
| Multi RR.....                                    |                                 |
| <b>Error Connector</b>                           |                                 |
| Error Writing to ECR Database.....               | No-operation <a href="#">71</a> |
| Error Writing to ECR Database.....               |                                 |
| On ECR Process route                             |                                 |

 **Error Writing to ECR Database**

Filter

**No-operation**

On ECR Process route

**Destinations**

| Name                    | Page                           |
|-------------------------|--------------------------------|
| ECR Database Write..... | Error Queue <a href="#">71</a> |

 **UTF-8 to Windows Latin-1**

Filter

**Character Encoding Translator**

On ECR Process route

**Configuration Properties**

|                           |  |
|---------------------------|--|
| Input Character Encoding  | 8-bit Unicode Transformation Format : UTF8 |
| Output Character Encoding | Windows Latin-1 : Cp1252                   |
| Character Mapping File    |  |

**Destinations**

| Name                          | Page                                   |
|-------------------------------|--|
| Shredding Pull From eICR..... | Property Population <a href="#">55</a> |

## Set Message DocRawText

Filter

**JavaScript**

On ECR Process route

**Javascript**

```
/* Single input message case */
// Create the output message
var next = output.append(input[0]);
var docRawText=next.getProperty( "docRawText" );
next.text=docRawText;
```

**Destinations**

| Name  | Page   |
|---|--|
| Output Condition: ! UTF-8   |  |
| eCRBodyEncoding does not exist  |  |
| OR  |  |
| eCRBodyEncoding != 'UTF-8'  |  |
| AND   |  |
| eCRBodyEncoding exists  |  |
|  Shredding Pull From eICR..... | Property Population <a href="#">55</a>           |
| <b>Error Connector</b>  | <b>Page</b>                                      |
|  UTF-8 to Windows Latin-1..... | Character Encoding Translator <a href="#">66</a> |

## Call ECR Validate

Filter

**No-operation**

On ECR Process route

**Destinations**

| Name  | Page                              |
|---|-----------------------------------|
|  ECR_Validate Publish..... | Dynamic Router <a href="#">87</a> |

## Shredder

Filter

**No-operation**

On ECR Process route

**Destinations**

| Name  | Page                          |
|---|-------------------------------|
|  Set Message DocRawText..... | JavaScript <a href="#">67</a> |



## Set Message docRawRRText

Filter

**JavaScript**

On ECR Process route

**Javascript**

```
/* Single input message case */
// Create the output message
var next = output.append(input[0]);
var docRawRRText=next.getProperty("docRawRRText");
next.text=docRawRRText;
```

**Destinations**

| Name  | Page                                   |
|---|--|
|  Shredding Pull From RR..... | Property Population <a href="#">74</a> |



## Look up store RR db-SP

Filter

**Database LookUp**

On ECR Process route

| Configuration Properties |                           |
|--------------------------|---------------------------|
| Maximum Concurrency      | 0                         |
| Database                 | Manual setting            |
| Configuration File       | ECR Table Maintenance.xml |
| Message Type             | Plain text                |
| Definition               |                           |
| Query Timeout            |                           |
| Deadlock Retry Attempts  | 5                         |
| Deadlock Retry Delay     | 100                       |
| Socket Timeout           | 0                         |

**Configuration File: ECR Table Maintenance.xml**

```
<config xmlns:ide="http://www.orionhealth.com/Rhapsody/IDE" xmlns:user="http://www.orionhealth.com/Rhapsody/IDE/UserData" version="6" ide:version="6.9.1.78122" ide:idcCompatibleVersion="3.0" ide:connectionName="eICR database">
  <driver>net.sourceforge.jtds.jdbc.Driver</driver>
  <url>$({dbConn_eICR})</url>
  <username />
  <password />
  <convertNullFields />
  <binaryEncoding>base64</binaryEncoding>
  <statement name="Upsert RR Conditions" ide:type="executeStoredProcedure" ide:allowCompoundStatements="false">
    <procedure>{
      CALL upsert_RR_conditions(
        $patient_id_authority
        , $patient_id
        , $doc_id_root
        , $doc_id_extension
      );
    }</procedure>
  </statement>
</config>
```

**Configuration File: ECR Table Maintenance.xml**

```

    ,$upsertedBy
    ,$all_condition_codes
)
}

}
</statement>
</config>
```

**Destinations**

| Name          | Page    |
|---------------|---------|
| ECR Sink..... | Sink 85 |

 **Prepare For Table Maintenance And Validation**

Filter

**JavaScript**

On ECR Process route

**Javascript**

```

/* Single input message case */
// Create the output message
var next = output.append(input[0]);

var eCRBodyEncoding=next.getProperty("eCRBodyEncoding");
var Ecr_Perform_Ecr_Validation=getVariable("Ecr_Perform_Ecr_Validation");
next.setProperty("Ecr_Perform_Ecr_Validation",Ecr_Perform_Ecr_Validation);

// save off OriginalRR to the originalrr variable
// OriginalRR set to docRawRRTText earlier
//next.setProperty("docRawRRTText",next.getProperty("OriginalRR"));
//docRawText set earlier in the process to have a value of docRawText rather than OriginalRR
// bring in the originalxml as the message
//next.text=next.getProperty("OriginaLEICR");
next.text=next.getProperty("docRawText");
next.setProperty("DefinitionName", "CDA.xsd");

var isUTF8;

log.info("Get UTF-8 existence :" +next.text.indexOf('<?xml version="1.0" encoding="UTF-8"?>'));
if (next.text.indexOf('<?xml version="1.0" encoding="UTF-8"?>') != -1)
{
  isUTF8 = true;
}
else
{
  if (eCRBodyEncoding == "UTF-8")
  {
    isUTF8 = true;
  }
}
```

**Javascript**

```

else
{
  isUTF8 = false;
}

next.setProperty("isUTF8", isUTF8);

//next.setProperty("docRawText",next.text);

//docRawText set earlier in the process to have a value of docRawText rather than OriginalRR
//next.setProperty("docRawText",next.text);

```

**Destinations**

| Name   | Page            |
|--|-----------------|
| Output Condition: Ecr_Perform_eCR_Validation |                 |
| Ecr_Perform_Ecr_Validation = 'TRUE'          |                 |
| Call ECR Validate.....                       | No-operation 67 |
| Output Condition: isUTF8 = false             |                 |
| isUTF8 = 'false'                             |                 |
| ECR DB Write.....                            | No-operation 71 |
| Output Condition: isUTF8 = true              |                 |
| isUTF8 = 'true'                              |                 |
| ECR DB Write Doesn't accept UTF-8.....       | No-operation 71 |

## A Shredding Failed to Find UTF-8. Force Character Encoding Translator

Filter

On ECR Process route

| Configuration Properties  |  |
|---------------------------|--|
| Input Character Encoding  | 8-bit Unicode Transformation Format : UTF8 |
| Output Character Encoding | Windows Latin-1 : Cp1252                   |
| Character Mapping File    |  |

**Destinations**

| Name                            | Page                   |
|---------------------------------|------------------------|
| Shredding Pull From eICR 2..... | Property Population 75 |

## ! UTF-8 Not Fixed Error Queue

Filter

**Error Queue**

On ECR Process route

| Configuration Properties |                        |
|--------------------------|------------------------|
| Error Message            | Sent from error filter |

 **ECR Database Write**

Filter

**Error Queue**

On ECR Process route

| Configuration Properties |                        |
|--------------------------|------------------------|
| Error Message            | Sent from error filter |

 **ECR DB Write**

Filter

**No-operation**

On ECR Process route

**Destinations**

| Name  | Page                               |
|---|------------------------------------|
|  lkup store ECR db-SP..... | Database LookUp <a href="#">63</a> |

 **ECR DB Write Doesn't accept UTF-8**

Filter

**No-operation**

On ECR Process route

**Destinations**

| Name  | Page                               |
|---|------------------------------------|
|  lkup store ECR db-SP..... | Database LookUp <a href="#">63</a> |

 **Multi RR**

Filter

**No-operation**

On ECR Process route

**Destinations**

| Name   | Page                               |
|--|------------------------------------|
|  lkup store RR db-SP..... | Database LookUp <a href="#">68</a> |

# Shredding Adjustments And Calculations

Filter



JavaScript

On ECR Process route

**Javascript**

```

/* Single input message case */
var next = output.append(input[0]);

var meta_sender=next.getProperty("meta_sender");
var patient_id_authority=next.getProperty("patient_id_authority");
var patient_id=next.getProperty("patient_id");
//var patient_name_middle=next.getProperty("patient_name_middle");
var patient_family_name=next.getProperty("patient_family_name");
var patient_first_name=next.getProperty("patient_first_name");
var doc_id=next.getProperty("doc_id");
var patient_date_of_birth=next.getProperty("patient_date_of_birth");
var encounter_id=next.getProperty("encounter_id");
var SimplifierVersion=next.getProperty("SimplifierVersion");
var filename=next.getProperty("AIMSPlatformFilename");
var doc_id_extension=next.getProperty("doc_id_extension");
var rr_condition_code=next.getProperty("rr_condition_code");
var patient_home_phone=next.getProperty("patient_home_phone");
var all_condition_codes=next.getProperty("all_condition_codes");
var patient_race_code_system=next.getProperty("patient_race_code_system");

// message body is now raw RR. if we want to keep simplifier text then we can use message
Content property - Lorenzo
//var docSimplifierText=next.text;
var docSimplifierText = next.getProperty("messageContent");
next.setProperty("docSimplifierText",docSimplifierText);

next.setProperty("upsertedBy", "ECR Process Route");

// get raw xml sections - Lorenzo (attempted but not completed 12/23/22)
//var docRawText = XML(next.getProperty("docRawText"));
//next.setProperty("problems",docRawText.getField("/ClinicalDocument/component/structuredBody/
component/section[templateId/@root='2.16.840.1.113883.10.20.22.2.5.1']/entry"));

// calculated values

// Phase 1
if ( all_condition_codes != null)
{
  if ( all_condition_codes.indexOf("840539006") != -1)
  {
    next.setProperty("rr_condition_code","840539006");
    next.setProperty("rr_display_name","Disease caused by severe acute respiratory syndrome cor
onavirus 2 (disorder)");
  }
}
// TBD

//var Patient_Phone_Number=patient_home_phone;
//next.setProperty("patient_home_phone",Patient_Phone_Number);

if ( filename.length >= 149 )

```

**Javascript**

```

{
  var AdjustedFilename=filename.substr(0,144)+"TRUNC";
  filename=AdjustedFilename;
}

next.setProperty("filename",filename);

if ( doc_id_extension == null )
{
  next.setProperty("doc_id_extension", "nullFlavor_UNK");
}

if ( patient_id_authority == null )
{
  next.setProperty("patient_id_authority", "nullFlavor_UNK");
}

if ( patient_id == null )
{
  next.setProperty("patient_id", "nullFlavor_UNK")
}

/*
if ( doc_id != null )
{
  next.setProperty("ecr_doc_id",doc_id);
}
*/
// needs clarification

if (encounter_id == null )
{
  next.setProperty("encounter_id", "nullFlavor_UNK")
}

if (SimplifierVersion == null )
{
  next.setProperty("SimplifierVersion", "nullFlavor_UNK")
}

if ( patient_date_of_birth == null )
{
  next.setProperty("patient_date_of_birth", "19000101")
}

//if ( patient_name_middle == null )
//{
//  next.setProperty("patient_name_middle", "N/A")
//}

if ( patient_first_name == null )

```

**Javascript**

```
{
  next.setProperty("patient_first_name", "nullFlavor_UNK");
}
if ( patient_family_name == null )
{
  next.setProperty("patient_family_name", "nullFlavor_UNK");
}
if ( patient_race_code_system == null )
{
  next.setProperty("patient_race_code_system", "nullFlavor_UNK");
}

/*
if ( doc_id == null )
{
  next.setProperty("ecr_docID", "nullFlavor_UNK");
}
*/
if ( rr_condition_code == null )
{
  next.setProperty("rr_condition_code", "nullFlavor_UNK");
}
```

**Destinations**

| Name  | Page          |
|---|---------------|
| ✉ Prepare For Table Maintenance And Validation..... | JavaScript 69 |

 **Shredding Pull From RR** Filter  
**Property Population**  
 On ECR Process route

| Configuration Properties  |                 |   |
|---------------------------|-----------------|---|
| Literal->Property Mapping |                 |   |
| Definition File           |                 | CDA.xsd   |
| Field->Property Mapping   | Property        | Source Field  |
|                           | rr_display_name | /ClinicalDocument/component/structuredBody/component[section/templateId/@root="2.16.840.1.113883.10.20.15.2.2.2"]/section/entry[organizer/templateId/@root="2.16.840.1.113883.10.20.15.2.3.34"]/organizer/component[observation[entryRelationship/organizer/participant/participantRole/id/@extension="wa"]/value/@displayName][1]/observation[entryRelationship/organizer/participant/participantRole/id/@extension="wa"]/value/@displayName |

| Configuration Properties |                              |  |
|--------------------------|------------------------------|--|
|                          | Property                     | Source Field   |
|                          | rr_condition_code            | /ClinicalDocument/component/structuredBody/component[section/templatelId/@root="2.16.840.1.113883.10.20.15.2.2.2"]/section/entry[organizer/templateId/@root="2.16.840.1.113883.10.20.15.2.3.34"]/organizer/component/observation[entryRelationship/organizer/participant/participantRole/id/@extension="wa"]/value/@code][1]/observation[entryRelationship/organizer/participant/participantRole/id/@extension="wa"]/value/@code |
|                          | all_condition_codes          | /ClinicalDocument/component/structuredBody/component[section/templatelId/@root="2.16.840.1.113883.10.20.15.2.2.2"]/section/entry[organizer/templateId/@root="2.16.840.1.113883.10.20.15.2.3.34"]/organizer/component/observation[entryRelationship/organizer/participant/participantRole/id/@extension="wa"]/value/@code   |
|                          | all_rr_displayNames          | /ClinicalDocument/component/structuredBody/component[section/templatelId/@root="2.16.840.1.113883.10.20.15.2.2.2"]/section/entry[organizer/templateId/@root="2.16.840.1.113883.10.20.15.2.3.34"]/organizer/component/observation[entryRelationship/organizer/participant/participantRole/id/@extension="wa"]/value/@displayName  |
| On Field Missing         | Continue processing on route |  |

## Destinations

| Name  | Page                          |
|---|-------------------------------|
| 🔗 Shredding Adjustments And Calculations..... | JavaScript <a href="#">72</a> |

## 👉 Shredding Pull From eICR 2 Filter

**Property Population**  
On ECR Process route

| Configuration Properties  |         |
|---------------------------|---------|
| Literal->Property Mapping |         |
| Definition File           | CDA.xsd |

| Configuration Properties |                            |  |
|--------------------------|----------------------------|--|
| Field->Property Mapping  | Property                   | Source Field   |
|                          | social_history             | /ClinicalDocument/component/structuredBody/component/section[tempId/@root="2.16.840.1.113883.10.20.22.2.17"]/entry                     |
|                          | history_of_present_illness | /ClinicalDocument/component/structuredBody/component/section[tempId/@root="1.3.6.1.4.1.19376.15.3.1.3.4"]/entry                        |
|                          | plan_of_treatment          | /ClinicalDocument/component/structuredBody/component/section[tempId/@root="2.16.840.1.113883.10.20.22.2.10"]/entry                     |
|                          | encounters                 | /ClinicalDocument/component/structuredBody/component/section[tempId/@root="2.16.840.1.113883.10.20.22.2.22.1"]/entry                   |
|                          | reason_for_visit           | /ClinicalDocument/component/structuredBody/component/section[tempId/@root="2.16.840.1.113883.10.20.22.2.12"]/entry                     |
|                          | immunizations              | /ClinicalDocument/component/structuredBody/component/section[tempId/@root="2.16.840.1.113883.10.20.22.2.2"]/entry                      |
|                          | medications                | /ClinicalDocument/component/structuredBody/component/section[tempId/@root="2.16.840.1.113883.10.20.22.2.38"]/entry                     |
|                          | results                    | /ClinicalDocument/component/structuredBody/component/section[tempId/@root="2.16.840.1.113883.10.20.22.2.3.1"]/entry                    |
|                          | problems                   | /ClinicalDocument/component/structuredBody/component/section[tempId/@root="2.16.840.1.113883.10.20.22.2.5.1"]/entry                    |
|                          | patient_street_address_2   | /ClinicalDocument/recordTarget[1]/patientRole/addr[1]/streetAddressLine[2]   |
|                          | provider_facility_name     | /ClinicalDocument/componentOf/enccompassingEncounter/responsibleParty/assignedEntity/representedOrganization/name                      |
|                          | provider_facility_address  | /ClinicalDocument/componentOf/enccompassingEncounter/responsibleParty/assignedEntity/representedOrganization/addr/streetAddressLine[1] |
|                          | provider_facility_city     | /ClinicalDocument/componentOf/enccompassingEncounter/responsibleParty/assignedEntity/representedOrganization/addr/city                 |

| Configuration Properties |                            |  |
|--------------------------|----------------------------|--|
|                          | Property                   | Source Field   |
|                          | provider_facility_state    | /ClinicalDocument/componentOf/enc encompassingEncounter/responsible Party/assignedEntity/representedOrganization/addr/state          |
|                          | provider_facility_zip_code | /ClinicalDocument/componentOf/enc encompassingEncounter/responsible Party/assignedEntity/representedOrganization/addr/postalCode     |
|                          | provider_facility_country  | /ClinicalDocument/componentOf/enc encompassingEncounter/responsible Party/assignedEntity/representedOrganization/addr/country        |
|                          | provider_first_name        | /ClinicalDocument/componentOf/enc encompassingEncounter/responsible Party/assignedEntity/assignedPerson/name/given[1]                |
|                          | provider_last_name         | /ClinicalDocument/componentOf/enc encompassingEncounter/responsible Party/assignedEntity/assignedPerson/name/family                  |
|                          | provider_id                | /ClinicalDocument/componentOf/enc encompassingEncounter/responsible Party/assignedEntity/id/@extension                               |
|                          | provider_id_root           | /ClinicalDocument/componentOf/enc encompassingEncounter/responsible Party/assignedEntity/id/@root                                    |
|                          | provider_phone             | /ClinicalDocument/componentOf/enc encompassingEncounter/responsible Party/assignedEntity/telecom[contains (@value, "tel")]/@value    |
|                          | provider_fax               | /ClinicalDocument/componentOf/enc encompassingEncounter/responsible Party/assignedEntity/telecom[contains (@value, "fax")]/@value    |
|                          | provider_email             | /ClinicalDocument/componentOf/enc encompassingEncounter/responsible Party/assignedEntity/telecom[contains (@value, "mailto")]/@value |
|                          | provider_address           | /ClinicalDocument/componentOf/enc encompassingEncounter/responsibleParty/assignedEntity/addr/streetAddressLine[1]                    |
|                          | provider_city              | /ClinicalDocument/componentOf/enc encompassingEncounter/responsible Party/assignedEntity/addr/city                                   |
|                          | provider_state             | /ClinicalDocument/componentOf/enc encompassingEncounter/responsible Party/assignedEntity/addr/state                                  |
|                          | provider_zip_code          | /ClinicalDocument/componentOf/enc encompassingEncounter/responsible Party/assignedEntity/addr/postalCode                             |

| Configuration Properties |                           |   |
|--------------------------|---------------------------|---|
|                          | Property                  | Source Field  |
|                          | provider_country          | /ClinicalDocument/componentOf/enc encompassingEncounter/responsible Party/assignedEntity/addr/country   |
|                          | facility_org_id           | /ClinicalDocument/componentOf/enc encompassingEncounter/location/healthCareFacility/id/@root  |
|                          | facility_org_type         | /ClinicalDocument/componentOf/enc encompassingEncounter/location/healthCareFacility/code/@displayName   |
|                          | facility_org_phone        | /ClinicalDocument/componentOf/enc encompassingEncounter/location/healthCareFacility/serviceProviderOrganization/telecom[contains(@value,"tel")]/@value    |
|                          | facility_org_fax          | /ClinicalDocument/componentOf/enc encompassingEncounter/location/healthCareFacility/serviceProviderOrganization/telecom[contains(@value,"fax")]/@value    |
|                          | facility_org_email        | /ClinicalDocument/componentOf/enc encompassingEncounter/location/healthCareFacility/serviceProviderOrganization/telecom[contains(@value,"mailto")]/@value |
|                          | facility_org_address      | /ClinicalDocument/componentOf/enc encompassingEncounter/location/healthCareFacility/serviceProviderOrganization/addr/streetAddressLine[1]                 |
|                          | facility_org_city         | /ClinicalDocument/componentOf/enc encompassingEncounter/location/healthCareFacility/serviceProviderOrganization/addr/city                                 |
|                          | facility_org_state        | /ClinicalDocument/componentOf/enc encompassingEncounter/location/healthCareFacility/serviceProviderOrganization/addr/state                                |
|                          | facility_org_zip_code     | /ClinicalDocument/componentOf/enc encompassingEncounter/location/healthCareFacility/serviceProviderOrganization/addr/postalCode                           |
|                          | facility_org_county       | /ClinicalDocument/componentOf/enc encompassingEncounter/location/healthCareFacility/serviceProviderOrganization/addr/county                               |
|                          | facility_location_address | /ClinicalDocument/componentOf/enc encompassingEncounter/location/healthCareFacility/location/addr/streetAddressLine[1]                                    |
|                          | facility_location_city    | /ClinicalDocument/componentOf/enc encompassingEncounter/location/healthCareFacility/location/addr/city  |

| Configuration Properties |                               |  |
|--------------------------|-------------------------------|--|
|                          | Property                      | Source Field   |
|                          | facility_location_state       | /ClinicalDocument/componentOf/enc encompassingEncounter/location/healthCareFacility/location/addr/state  |
|                          | facility_location_zip_code    | /ClinicalDocument/componentOf/enc encompassingEncounter/location/healthCareFacility/location/addr/postalCode                                     |
|                          | facility_location_county      | /ClinicalDocument/componentOf/enc encompassingEncounter/location/healthCareFacility/location/addr/county   |
|                          | encounter_type                | /ClinicalDocument/componentOf/enc encompassingEncounter/code/@displayName  |
|                          | encounter_date_low            | /ClinicalDocument/componentOf/enc encompassingEncounter/effectiveTime/low/@value   |
|                          | encounter_date_high           | /ClinicalDocument/componentOf/enc encompassingEncounter/effectiveTime/high/@value  |
|                          | guardian_type                 | /ClinicalDocument/recordTarget[1]/patientRole/patient/guardian[1]/code/@displayName  |
|                          | guardian_first_name           | /ClinicalDocument/recordTarget[1]/patientRole/patient/guardian[1]/guardianPerson/name/given[1]   |
|                          | guardian_phone                | /ClinicalDocument/recordTarget[1]/patientRole/patient/guardian[1]/telecom[substring(@value, 1, 4)="tel:"][[1]]/@value                            |
|                          | guardian_email                | /ClinicalDocument/recordTarget[1]/patientRole/patient/guardian[1]/telecom[substring(@value, 1, 7)="mailto:"][[1]]/@value                         |
|                          | emergency_contact_last_name   | /ClinicalDocument/participant[@type Code="IND"]/associatedEntity[@class Code="ECON"][[1]]/associatedPerson/name/family                           |
|                          | emergency_contact_first_name  | /ClinicalDocument/participant[@type Code="IND"]/associatedEntity[@class Code="ECON"][[1]]/associatedPerson/name/given[1]                         |
|                          | emergency_contact_phone       | /ClinicalDocument/participant[@type Code="IND"]/associatedEntity[@class Code="ECON"][[1]]/telecom[substring(@value, 1, 4)="tel:"][[1]]/@value    |
|                          | emergency_contact_email       | /ClinicalDocument/participant[@type Code="IND"]/associatedEntity[@class Code="ECON"][[1]]/telecom[substring(@value, 1, 7)="mailto:"][[1]]/@value |
|                          | patient_religious_affiliation | /ClinicalDocument/recordTarget[1]/patientRole/patient/religiousAffiliationCode/@displayName  |

| Configuration Properties |   |  |
|--------------------------|---|--|
|                          | Property                                  | Source Field   |
|                          | patient_religious_affiliation_code        | /ClinicalDocument/recordTarget[1]/patientRole/patient/religiousAffiliationCode/@code   |
|                          | patient_religious_affiliation_code_system | /ClinicalDocument/recordTarget[1]/patientRole/patient/religiousAffiliationCode/@codeSystem   |
|                          | custodian_org_id                          | /ClinicalDocument/custodian[1]/assignedCustodian/representedCustodianOrganization/id/@extension  |
|                          | custodian_org_id_root                     | /ClinicalDocument/custodian[1]/assignedCustodian/representedCustodianOrganization/id/@root   |
|                          | custodian_org_street_address              | /ClinicalDocument/custodian[1]/assignedCustodian/representedCustodianOrganization/addr/streetAddressLine                               |
|                          | custodian_org_city                        | /ClinicalDocument/custodian[1]/assignedCustodian/representedCustodianOrganization/addr/city  |
|                          | custodian_org_county                      | /ClinicalDocument/custodian[1]/assignedCustodian/representedCustodianOrganization/addr/country   |
|                          | custodian_org_state                       | /ClinicalDocument/custodian[1]/assignedCustodian/representedCustodianOrganization/addr/state   |
|                          | custodian_org_zip_code                    | /ClinicalDocument/custodian[1]/assignedCustodian/representedCustodianOrganization/addr/postalCode                                      |
|                          | custodian_org_country                     | /ClinicalDocument/custodian[1]/assignedCustodian/representedCustodianOrganization/addr/country   |
|                          | patient_sex_assigned_at_birth             | //observation[templateId/@root="2.16.840.1.113883.10.20.22.4.200"]/value/@displayName  |
|                          | patient_gender_identity                   | //observation[templateId/@root="2.16.840.1.113883.10.20.34.3.45"]/value/@displayName   |
|                          | patient_marital_status                    | /ClinicalDocument/recordTarget[1]/patientRole/patient/maritalStatusCode/@displayName   |
|                          | patient_address_type                      | /ClinicalDocument/recordTarget[1]/patientRole/addr[1]/@use   |
|                          | patient_language                          | /ClinicalDocument/recordTarget[1]/patientRole/patient/languageCommunication[preferenceInd[@value="true"]][1]/languageCode/@displayName |
|                          | patient_language_code_system              | /ClinicalDocument/recordTarget[1]/patientRole/patient/languageCommunication[preferenceInd[@value="true"]][1]/languageCode/@codeSystem  |

| Configuration Properties |                               |   |
|--------------------------|-------------------------------|---|
|                          | Property                      | Source Field  |
|                          | author_org_country            | /ClinicalDocument/author[1]/assigned Author/representedOrganization/addr /country             |
|                          | author_org_zip_code           | /ClinicalDocument/author[1]/assigned Author/representedOrganization/addr/postalCode           |
|                          | author_org_state              | /ClinicalDocument/author[1]/assigned Author/representedOrganization/addr/state                |
|                          | author_org_county             | /ClinicalDocument/author[1]/assigned Author/representedOrganization/addr/country              |
|                          | author_org_city               | /ClinicalDocument/author[1]/assigned Author/representedOrganization/addr/city                 |
|                          | author_org_street_address     | /ClinicalDocument/author[1]/assigned Author/representedOrganization/addr/streetAddressLine[1] |
|                          | author_country                | /ClinicalDocument/author[1]/assigned Author/addr/country                                      |
|                          | author_zip_code               | /ClinicalDocument/author[1]/assigned Author/addr/postalCode                                   |
|                          | author_state                  | /ClinicalDocument/author[1]/assigned Author/addr/state  |
|                          | author_county                 | /ClinicalDocument/author[1]/assigned Author/addr/country                                      |
|                          | author_city                   | /ClinicalDocument/author[1]/assigned Author/addr/city   |
|                          | author_street_address         | /ClinicalDocument/author[1]/assigned Author/addr/streetAddressLine[1]                         |
|                          | author_first_name             | /ClinicalDocument/author[1]/assigned Author/assignedPerson/name/given[1]                      |
|                          | author_id_root                | /ClinicalDocument/author[1]/assigned Author/id/@root  |
|                          | author_id                     | /ClinicalDocument/author[1]/assigned Author/id/@extension                                     |
|                          | patient_deceased_indicator    | /ClinicalDocument/recordTarget/patientRole/patient/deceasedInd/@value                         |
|                          | patient_ethnicity_code_system | /ClinicalDocument/recordTarget[1]/patientRole/patient/ethnicGroupCode[1]/@codeSystem          |
|                          | patient_ethnicity             | /ClinicalDocument/recordTarget[1]/patientRole/patient/ethnicGroupCode[1]/@displayName         |
|                          | patient_ethnicity_code        | /ClinicalDocument/recordTarget[1]/patientRole/patient/ethnicGroupCode[1]/@code                |

| Configuration Properties |                               |   |
|--------------------------|-------------------------------|---|
|                          | Property                      | Source Field  |
|                          | patient_cell_number           | /ClinicalDocument/recordTarget[1]/patientRole/telecom[@use="MC"][1]/@value  |
|                          | patient_race_code             | /ClinicalDocument/recordTarget[1]/patientRole/patient/raceCode[1]/@code   |
|                          | patient_race_code_system      | /ClinicalDocument/recordTarget[1]/patientRole/patient/raceCode[1]/@codeSystem   |
|                          | patient_race                  | /ClinicalDocument/recordTarget[1]/patientRole/patient/raceCode[1]/@displayName  |
|                          | patient_language_code         | /ClinicalDocument/recordTarget[1]/patientRole/patient/languageCommunication[preferenceInd[@value="true"]][1]/languageCode/@code |
|                          | SimplifierVersion             | /xmlMessage/simplifiedVersion   |
|                          | doc_id_root                   | /ClinicalDocument/id/@root  |
|                          | set_id_assigning_authority    | /ClinicalDocument/setId/@assigningAuthorityName   |
|                          | set_id_extension              | /ClinicalDocument/setId/@extension  |
|                          | encounter_version             | /ClinicalDocument/versionNumber/@value  |
|                          | author_family_name            | /ClinicalDocument/author[1]/assignedAuthor/assignedPerson/name/family   |
|                          | author_software_name          | /ClinicalDocument/author/assignedAuthor/assignedAuthoringDevice[1]/softwareName   |
|                          | custodian_org_name            | /ClinicalDocument/custodian[1]/assignedCustodian/representedCustodianOrganization/name  |
|                          | patient_id_authority          | /ClinicalDocument/recordTarget[1]/patientRole/id[1]/@root   |
|                          | patient_id                    | /ClinicalDocument/recordTarget[1]/patientRole/id[1]/@extension  |
|                          | patient_first_name            | /ClinicalDocument/recordTarget[1]/patientRole/patient/name[1]/given[1]  |
|                          | patient_middle_name           | /ClinicalDocument/recordTarget[1]/patientRole/patient/name[1]/given[2]  |
|                          | patient_family_name           | /ClinicalDocument/recordTarget[1]/patientRole/patient/name[1]/family  |
|                          | patient_administrative_gender | /ClinicalDocument/recordTarget[1]/patientRole/patient/administrativeGenderCode/@displayName                                     |
|                          | patient_street_address_1      | /ClinicalDocument/recordTarget[1]/patientRole/addr[1]/streetAddressLine[1]  |
|                          | patient_city                  | /ClinicalDocument/recordTarget[1]/patientRole/addr[1]/city  |

| Configuration Properties |                                     |   |
|--------------------------|-------------------------------------|---|
|                          | Property                            | Source Field  |
|                          | patient_state                       | /ClinicalDocument/recordTarget[1]/patientRole/addr[1]/state   |
|                          | patient_zip_code                    | /ClinicalDocument/recordTarget[1]/patientRole/addr[1]/postalCode  |
|                          | patient_county                      | /ClinicalDocument/recordTarget[1]/patientRole/addr[1]/county[1]   |
|                          | patient_country                     | /ClinicalDocument/recordTarget[1]/patientRole/addr[1]/country   |
|                          | patient_address_useable_period_high | /ClinicalDocument/recordTarget[1]/patientRole/addr[1]/useablePeriod/high/@value                                   |
|                          | patient_address_useable_period_low  | /ClinicalDocument/recordTarget[1]/patientRole/addr[1]/useablePeriod/low/@value                                    |
|                          | patient_home_number                 | /ClinicalDocument/recordTarget[1]/patientRole/telecom[@use="HP"][[1]/@value                                       |
|                          | patient_email                       | /ClinicalDocument/recordTarget[1]/patientRole/telecom[contains(@value , "mailto")][1]/@value                      |
|                          | guardian_last_name                  | /ClinicalDocument/recordTarget[1]/patientRole/patient/guardian[1]/guardianPerson/name/family                      |
|                          | encounter_id                        | /ClinicalDocument/componentOf/enccompassingEncounter/id/@extension  |
|                          | facility_location_name              | /ClinicalDocument/componentOf/enccompassingEncounter/location/healthCareFacility/location/name                    |
|                          | facility_org_name                   | /ClinicalDocument/componentOf/enccompassingEncounter/location/healthCareFacility/serviceProviderOrganization/name |
|                          | patient_date_of_birth               | /ClinicalDocument/recordTarget[1]/patientRole/patient/birthTime/@value  |
|                          | doc_effective_time                  | /ClinicalDocument/effectiveTime/@value  |
|                          | patient_date_of_death               | /ClinicalDocument/recordTarget[1]/patientRole/patient/deceasedTime/@value   |
|                          | rr_manual_initiation                | /ClinicalDocument/documentationOf/serviceEvent/code[@code="PHC1464"]/@displayName                                 |
|                          | doc_id_extension                    | /ClinicalDocument/id/@extension   |
| On Field Missing         | Continue processing on route        |   |

## Destinations

| Name                            | Page          |
|---------------------------------|---------------|
| 👉 Set Message docRawRRText..... | JavaScript 68 |

| Error Connector                    | Page                           |
|------------------------------------|--------------------------------|
| ⚠ UTF-8 Not Fixed Error Queue..... | Error Queue <a href="#">70</a> |



# ECR Sink

## Sink (Output Mode)

### Communication Point

| Used on Routes    | Page                      |
|-------------------|---------------------------|
| ECR Process.....  | Route <a href="#">53</a>  |
| ECR Validate..... | Route <a href="#">158</a> |

### Details

| Retries                     |  |
|-----------------------------|--|
| Retry Type                  | Linear                                     |
| Number of Retries           | 5  |
| Retries before Notification | 5  |
| Retry Delay (ms)            | 5000                                       |
| Properties                  |  |
| Idle Timeout (ms)           | 0  |
| Number of Connections       | 1  |
| Startup State               | Startup First (only if previously running) |
| Continue Routing Enabled    | False                                      |



# ECR Subscribe

## Dynamic Router (Input Mode)

Communication Point

| Configuration Properties |          |
|--------------------------|----------|
| Used on Routes           | Page     |
| ECR Process.....         | Route 53 |

## Details

| Retries                     |  |
|-----------------------------|--|
| Retry Type                  | Linear                                     |
| Number of Retries           | 5  |
| Retries before Notification | 5  |
| Retry Delay (ms)            | 5000                                       |
| Properties                  |  |
| Idle Timeout (ms)           | 0  |
| Number of Connections       | 1  |
| Startup State               | Startup First (only if previously running) |
| Input Message Encoding      | Unknown / Not Set                          |



# ECR\_Validate Publish

## Dynamic Router (Output Mode)

Communication Point

| Configuration Properties |                               |
|--------------------------|-------------------------------|
| Delivery Mode            | Always Use Static Destination |
| Static Destination       | @ECRValidate                  |
| Index Message Properties | false                         |
| Used on Routes           | Page                          |
| ECR Process.....         | Route 53                      |

## Details

| Retries                     |   |
|-----------------------------|---|
| Retry Type                  | Linear                                    |
| Number of Retries           | 5   |
| Retries before Notification | 5   |
| Retry Delay (ms)            | 5000                                      |
| Properties                  |   |
| Idle Timeout (ms)           | 0   |
| Number of Connections       | 1   |
| Startup State               | Startup Last (only if previously running) |
| Continue Routing Enabled    | False                                     |



# toOUT\_Generic publish

## Dynamic Router (Output Mode)

Communication Point

| Configuration Properties  |                               |
|---|-------------------------------|
| Delivery Mode   | Always Use Static Destination |
| Static Destination  | @toOUT_Generic                |
| Index Message Properties  | false                         |
| Used on Routes  |                               |
|  ECR Validate..... | Route <a href="#">158</a>     |

## Details

| Retries                     |  |
|-----------------------------|--|
| Retry Type                  | Linear                                     |
| Number of Retries           | 5  |
| Retries before Notification | 5  |
| Retry Delay (ms)            | 5000                                       |
| Properties                  |  |
| Idle Timeout (ms)           | 0  |
| Number of Connections       | 1  |
| Startup State               | Startup First (only if previously running) |
| Continue Routing Enabled    | False                                      |

# 03\_ECR\_MIF

Full Path /ECR/03\_ECR\_MIF

Folder

| Summary  |                            |
|--|----------------------------|
| Communication Points (16)  |                            |
| Routes (5)   |                            |
| Folder Contents  |                            |
|  | Page                       |
|  ECR Event.....                     | HTTP Client 90             |
|  ECR Event Publish.....             | Dynamic Router 92          |
|  ECR Event Subscribe.....           | Dynamic Router 93          |
|  ECR Geocode.....                   | SOAP Web Service Client 94 |
|  ECR MIF Publish.....               | Dynamic Router 95          |
|  ECR MIF Subscribe.....             | Dynamic Router 96          |
|  ECR Person.....                    | HTTP Client 97             |
|  ECR Race Language.....             | HTTP Client 99             |
|  ECR Race Language Publish.....     | Dynamic Router 101         |
|  ECR Race Language Subscribe.....   | Dynamic Router 102         |
|  ECR To Out Generic Publish.....    | Dynamic Router 103         |
|  ECR_0_Person Lookup.....           | Route 104                  |
|  ECR_1_Event Lookup.....          | Route 111                  |
|  ECR_2_Race Language Lookup.....  | Route 116                  |
|  ECR_3_XML To MIF.....            | Route 124                  |
|  ECR_MIF Status.....              | Route 147                  |
|  eCRDBRepollTableRead.....        | Database 150               |
|  eCRDBTableRead.....              | Database 152               |
|  Sink.....                        | Sink 154                   |
|  Update MIF Status Publish.....   | Dynamic Router 155         |
|  Update MIF Status Subscribe..... | Dynamic Router 156         |



# ECR Event

HTTP Client (Out->In Mode)

Communication Point

**Notes**

Successful calls to the API require that an addition request header in added to the SOAP call.

Content-Type application/json

| Configuration Properties  |                           |                     |
|---|---------------------------|---------------------|
| URL   | \$DriveLookupUrl          |                     |
| HTTP Method   | POST                      |                     |
| Request Headers   | <b>Request Header</b>     | <b>Value</b>        |
|   | Content-Type              | application/json    |
| Follow Redirects  | false                     |                     |
| Use HTTPS   | false                     |                     |
| HTTP Authentication Username  |                           |                     |
| Protocol Support  | Standard HTTP only        |                     |
| Read Timeout (ms)   | 10000                     |                     |
| Connect Timeout (ms)  | 60000                     |                     |
| Proxy Type  | System                    |                     |
| Refresh Rate  | 5000                      |                     |
| Set If-Modified-Since Header  | false                     |                     |
| Response Headers  |                           |                     |
| Message Content   | Message Body              |                     |
| Content Type  |                           |                     |
| Content Encoding  |                           |                     |
| Definition File   |                           |                     |
| Additional Request Headers  |                           |                     |
| Request Parameters  |                           |                     |
| On 4xx Error Response   | Treat as message error    |                     |
| On 5xx Error Response   | Mark as connection failed |                     |
| Dynamic Connection Failed Action  | Treat as message error    |                     |
| Copy headers  | false                     |                     |
| Used on Routes  |                           | Page                |
|  ECR_1_Event Lookup..... | .....Route                | <a href="#">111</a> |

## Details

| Retries                     |        |
|-----------------------------|--------|
| Retry Type                  | Linear |
| Number of Retries           | 5      |
| Retries before Notification | 5      |
| Retry Delay (ms)            | 5000   |

| <b>Properties</b>      |  |
|------------------------|--|
| Idle Timeout (ms)      | 0  |
| Number of Connections  | 1  |
| Startup State          | Startup Third (only if previously running) |
| Input Message Encoding | UTF-8                                      |
| Response Timeout (ms)  | 60000                                      |
| Retry Count            | Infinite                                   |
| Fail Action            | Treat as error                             |
| <b>Schedule</b>        |  |
| Start at 0 5 0 * * ?   | BOD  |
| Stop at 0 15 6 * * ?   | before restart                             |
| Start at 0 45 6 * * ?  | after restart                              |
| Stop at 0 55 23 * * ?  | EOD  |



# ECR Event Publish

## Dynamic Router (Output Mode)

Communication Point

| Configuration Properties |                               |
|--------------------------|-------------------------------|
| Delivery Mode            | Always Use Static Destination |
| Static Destination       | @ECR_Event                    |
| Index Message Properties | false                         |
| Used on Routes           | Page                          |
| ECR_0_Person Lookup..... | Route <a href="#">104</a>     |

## Details

| Retries                     |   |
|-----------------------------|---|
| Retry Type                  | Linear                                      |
| Number of Retries           | 5   |
| Retries before Notification | 5   |
| Retry Delay (ms)            | 5000  |
| Properties                  |   |
| Idle Timeout (ms)           | 0   |
| Number of Connections       | 1   |
| Startup State               | Startup Second (only if previously running) |
| Continue Routing Enabled    | False                                       |



# ECR Event Subscribe

## Dynamic Router (Input Mode)

Communication Point

| Configuration Properties |           |
|--------------------------|-----------|
| Used on Routes           | Page      |
| ECR_1_Event Lookup.....  | Route 111 |

## Details

| Retries                     |  |
|-----------------------------|--|
| Retry Type                  | Linear                                     |
| Number of Retries           | 5  |
| Retries before Notification | 5  |
| Retry Delay (ms)            | 5000                                       |
| Properties                  |  |
| Idle Timeout (ms)           | 0  |
| Number of Connections       | 1  |
| Startup State               | Startup Third (only if previously running) |
| Input Message Encoding      | Unknown / Not Set                          |



# ECR Geocode

SOAP Web Service Client (Out-&gt;In Mode)

Communication Point

| Configuration Properties                |  |
|---|--|
| Endpoint URL                            | http://giswebt/acgeo/service.asmx              |
| Server Authentication                   | Use certificate authorities for authentication |
| Service Certificate                     |  |
| Client Key                              |  |
| HTTPS client certificate authentication | Disabled                                       |
| SOAP Binding                            | SOAP 1.2                                       |
| WS-Addressing                           | Enabled  |
| SSL Protocol                            | TLSv1.2  |
| SSL Cipher Suite                        | FIPS cipher suites (AES-128, AES-256)          |
| Definition                              |  |
| Custom SOAP Header                      |  |
| Connection Timeout (ms)                 | 60000  |
| Proxy Enabled                           | Disabled                                       |
| Proxy Hostname                          |  |
| Proxy Port                              | 0  |
| Proxy Username                          |  |
| Security Binding                        | No security binding                            |
| Authentication Mode                     | No authentication                              |
| Used on Routes                          |  |
| ECR_3_ XML To MIF.....                  | Route 124                                      |

## Details

| Retries                     |   |
|-----------------------------|---|
| Retry Type                  | Linear                                    |
| Number of Retries           | 5   |
| Retries before Notification | 5   |
| Retry Delay (ms)            | 5000                                      |
| Properties                  |   |
| Idle Timeout (ms)           | 0   |
| Number of Connections       | 1   |
| Startup State               | Startup Last (only if previously running) |
| Input Message Encoding      | Unknown / Not Set                         |
| Response Timeout (ms)       | 60000                                     |
| Retry Count                 | Infinite                                  |
| Fail Action                 | Treat as error                            |



# ECR MIF Publish

## Dynamic Router (Output Mode)

Communication Point

| Configuration Properties        |                               |
|---------------------------------|-------------------------------|
| Delivery Mode                   | Always Use Static Destination |
| Static Destination              | @ECR_MIF                      |
| Index Message Properties        | false                         |
| Used on Routes                  | Page                          |
| ECR_2_Race Language Lookup..... | Route <a href="#">116</a>     |

## Details

| Retries                     |   |
|-----------------------------|---|
| Retry Type                  | Linear                                    |
| Number of Retries           | 5   |
| Retries before Notification | 5   |
| Retry Delay (ms)            | 5000                                      |
| Properties                  |   |
| Idle Timeout (ms)           | 0   |
| Number of Connections       | 1   |
| Startup State               | Startup Last (only if previously running) |
| Continue Routing Enabled    | False                                     |



# ECR\_MIF Subscribe

## Dynamic Router (Input Mode)

Communication Point

| Configuration Properties |           |
|--------------------------|-----------|
| Used on Routes           | Page      |
| ECR_3_ XML To MIF.....   | Route 124 |

## Details

| Retries                     |   |
|-----------------------------|---|
| Retry Type                  | Linear                                    |
| Number of Retries           | 5   |
| Retries before Notification | 5   |
| Retry Delay (ms)            | 5000                                      |
| Properties                  |   |
| Idle Timeout (ms)           | 0   |
| Number of Connections       | 1   |
| Startup State               | Startup Last (only if previously running) |
| Input Message Encoding      | Unknown / Not Set                         |



# ECR Person

HTTP Client (Out->In Mode)

Communication Point

| Notes  |  |
|--|--|
| Successful calls to the API require that an addition request header in added to the SOAP call. |  |
| Content-Type application/json  |  |

| Configuration Properties   |                           |              |
|--|---------------------------|--------------|
| URL  | \$DriveLookupUrl          |              |
| HTTP Method  | <b>Request Header</b>     | POST         |
| Request Headers  |                           | Content-Type |
| Follow Redirects   | false                     |              |
| Use HTTPS  | false                     |              |
| HTTP Authentication Username   |                           |              |
| Protocol Support   | Standard HTTP only        |              |
| Read Timeout (ms)  | 10000                     |              |
| Connect Timeout (ms)   | 60000                     |              |
| Proxy Type   | System                    |              |
| Refresh Rate   | 5000                      |              |
| Set If-Modified-Since Header   | false                     |              |
| Response Headers   |                           |              |
| Message Content  | Message Body              |              |
| Content Type   |                           |              |
| Content Encoding   |                           |              |
| Definition File  |                           |              |
| Additional Request Headers   |                           |              |
| Request Parameters   |                           |              |
| On 4xx Error Response  | Treat as message error    |              |
| On 5xx Error Response  | Mark as connection failed |              |
| Dynamic Connection Failed Action   | Treat as message error    |              |
| Copy headers   | false                     |              |
| Used on Routes   |                           | Page         |
|  ECR_0_Person Lookup..... | .....                     | Route 104    |

## Details

| Retries                     |        |
|-----------------------------|--------|
| Retry Type                  | Linear |
| Number of Retries           | 5      |
| Retries before Notification | 5      |
| Retry Delay (ms)            | 5000   |

| <b>Properties</b>      |  |
|------------------------|--|
| Idle Timeout (ms)      | 0  |
| Number of Connections  | 1  |
| Startup State          | Startup First (only if previously running) |
| Input Message Encoding | UTF-8                                      |
| Response Timeout (ms)  | 60000                                      |
| Retry Count            | Infinite                                   |
| Fail Action            | Treat as error                             |
| <b>Schedule</b>        |  |
| Start at 0 5 0 * * ?   | BOD  |
| Stop at 0 15 6 * * ?   | before restart                             |
| Start at 0 45 6 * * ?  | after restart                              |
| Stop at 0 55 23 * * ?  | EOD  |



# ECR Race Language

HTTP Client (Out->In Mode)

Communication Point

| Notes  |
|--|
| Successful calls to the API require that an addition request header in added to the SOAP call. |
| Content-Type application/json  |

| Configuration Properties  |                           |                           |
|---|---------------------------|---------------------------|
| URL   | \$RaceLanguageAPIUrl      |                           |
| HTTP Method   | Request Headers           | POST                      |
| Content-Type  |                           | application/json          |
| Follow Redirects  | false                     |                           |
| Use HTTPS   | false                     |                           |
| HTTP Authentication Username  |                           |                           |
| Protocol Support  | Standard HTTP only        |                           |
| Read Timeout (ms)   | 10000                     |                           |
| Connect Timeout (ms)  | 60000                     |                           |
| Proxy Type  | System                    |                           |
| Refresh Rate  | 5000                      |                           |
| Set If-Modified-Since Header  | false                     |                           |
| Response Headers  |                           |                           |
| Message Content   | Message Body              |                           |
| Content Type  |                           |                           |
| Content Encoding  |                           |                           |
| Definition File   |                           |                           |
| Additional Request Headers  |                           |                           |
| Request Parameters  |                           |                           |
| On 4xx Error Response   | Treat as message error    |                           |
| On 5xx Error Response   | Mark as connection failed |                           |
| Dynamic Connection Failed Action  | Treat as message error    |                           |
| Copy headers  | false                     |                           |
| Used on Routes  |                           | Page                      |
|  ECR_2_Race Language Lookup..... |                           | Route <a href="#">116</a> |

## Details

| Retries                     |        |
|-----------------------------|--------|
| Retry Type                  | Linear |
| Number of Retries           | 5      |
| Retries before Notification | 5      |
| Retry Delay (ms)            | 5000   |

| Properties             |   |
|------------------------|---|
| Idle Timeout (ms)      | 0   |
| Number of Connections  | 1   |
| Startup State          | Startup Fourth (only if previously running) |
| Input Message Encoding | UTF-8                                       |
| Response Timeout (ms)  | 60000                                       |
| Retry Count            | Infinite                                    |
| Fail Action            | Treat as error                              |



# ECR Race Language Publish

## Dynamic Router (Output Mode)

Communication Point

| Configuration Properties |                               |
|--------------------------|-------------------------------|
| Delivery Mode            | Always Use Static Destination |
| Static Destination       | @ECR_RaceLanguage             |
| Index Message Properties | false                         |
| Used on Routes           |                               |
| ECR_0_Person Lookup..... | Route <a href="#">104</a>     |
| ECR_1_Event Lookup.....  | Route <a href="#">111</a>     |

## Details

| Retries                     |   |
|-----------------------------|---|
| Retry Type                  | Linear                                      |
| Number of Retries           | 5   |
| Retries before Notification | 5   |
| Retry Delay (ms)            | 5000  |
| Properties                  |   |
| Idle Timeout (ms)           | 0   |
| Number of Connections       | 1   |
| Startup State               | Startup Fourth (only if previously running) |
| Continue Routing Enabled    | False                                       |



# ECR Race Language Subscribe

## Dynamic Router (Input Mode)

Communication Point

| Configuration Properties        |           |
|---------------------------------|-----------|
| Used on Routes                  | Page      |
| ECR_2_Race Language Lookup..... | Route 116 |

## Details

| Retries                     |   |
|-----------------------------|---|
| Retry Type                  | Linear                                      |
| Number of Retries           | 5   |
| Retries before Notification | 5   |
| Retry Delay (ms)            | 5000  |
| Properties                  |   |
| Idle Timeout (ms)           | 0   |
| Number of Connections       | 1   |
| Startup State               | Startup Fourth (only if previously running) |
| Input Message Encoding      | Unknown / Not Set                           |



# ECR To Out Generic Publish

## Dynamic Router (Output Mode)

Communication Point

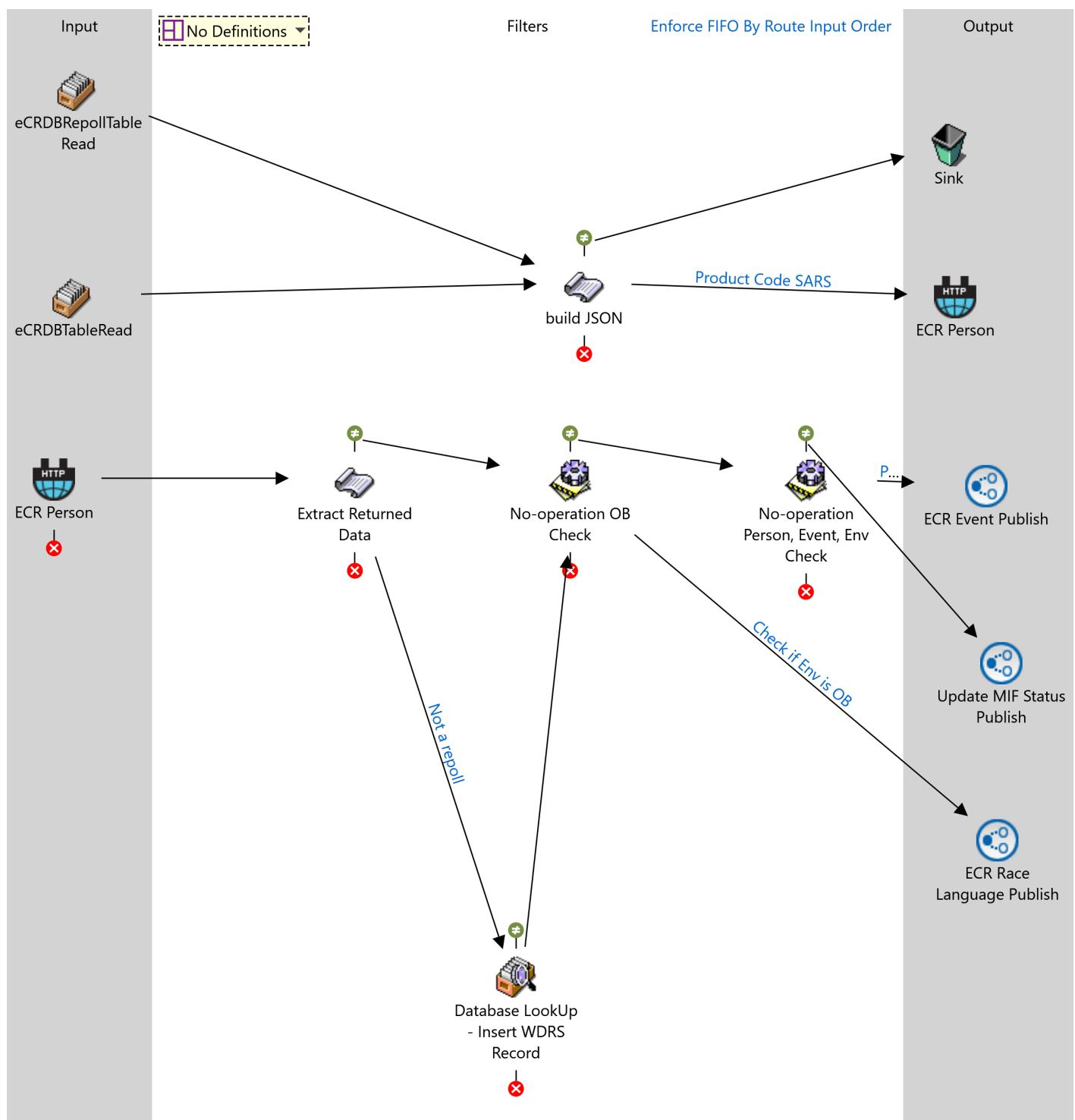
| Configuration Properties  |                               |
|---|-------------------------------|
| Delivery Mode   | Always Use Static Destination |
| Static Destination  | @toOUT_Generic                |
| Index Message Properties  | false                         |
| Used on Routes  | Page                          |
|  ECR_MIF Status..... | Route <a href="#">147</a>     |

## Details

| Retries                     |   |
|-----------------------------|---|
| Retry Type                  | Linear                                    |
| Number of Retries           | 5   |
| Retries before Notification | 5   |
| Retry Delay (ms)            | 5000                                      |
| Properties                  |   |
| Idle Timeout (ms)           | 0   |
| Number of Connections       | 1   |
| Startup State               | Startup Last (only if previously running) |
| Continue Routing Enabled    | False                                     |

## ECR\_0\_Person Lookup

Route



### Notes

Author: JK

Desc: Here are the steps involved in this route:

**Notes**

ECR Table Read:

ECR records read from the ECR tables

Records are sent to the ECR Person lookup if the product code criterion is matched

Data is tracked in a WDRS table which is inserted the first time a record comes in the route.

If the person is found and the environment is QA or PROD, the record continues to the next route

If the person is not found, the database status is updated

If the person is not found and the environment is OB, the process continues with the race/language route

Repoll ECR Table Read:

On a scheduled basis, ECR messages will be repolled

Messages are repolled if they have a Person Not found or Repoll Person Not found status

| Inputs                         | Page               |
|--------------------------------|--------------------|
| eCRDBRepollTableRead.....      | Database 150       |
| eCRDBTableRead.....            | Database 152       |
| ECR Person.....                | HTTP Client 97     |
| Outputs                        | Page               |
| Sink.....                      | Sink 154           |
| ECR Person.....                | HTTP Client 97     |
| ECR Event Publish.....         | Dynamic Router 92  |
| Update MIF Status Publish..... | Dynamic Router 155 |
| ECR Race Language Publish..... | Dynamic Router 101 |

**Filters**

| Name                                       | Page                |
|--|---------------------|
| build JSON.....                            | JavaScript 108      |
| Database LookUp - Insert WDRS Record.....  | Database LookUp 107 |
| Extract Returned Data.....                 | JavaScript 106      |
| No-operation OB Check.....                 | No-operation 106    |
| No-operation Person, Event, Env Check..... | No-operation 106    |

**Details**

| General                     |   |
|-----------------------------|---|
| Priority                    | Normal                                      |
| Startup State               | Startup Second (only if previously running) |
| FIFO Mode                   | Enforce FIFO By Route Input Order           |
| Stop route on error message | False                                       |

## No-operation OB Check

Filter

**No-operation**

On ECR\_0\_Person Lookup route

**Destinations**

| Name   | Page                               |
|--|------------------------------------|
| Output Condition: Check if Env is OB   |                                    |
| getVariable('ENV') == 'OB'    getVariable('eICR_dataEnv') == 'OB'  |                                    |
|  ECR Race Language Publish.....             | Dynamic Router <a href="#">101</a> |
| Error Connector  | Page                               |
|  No-operation Person, Event, Env Check..... | No-operation <a href="#">106</a>   |

## No-operation Person, Event, Env Check

Filter

**No-operation**

On ECR\_0\_Person Lookup route

**Destinations**

| Name  | Page                               |
|---|------------------------------------|
| Output Condition: Person Match, EventID Exists, Env QA or PROD  |                                    |
| input.getProperty("PersonMatched") == "Y" && input.getProperty("99_ExternalID") && ((getVariable('ENV') == 'QA'    getVariable('ENV') == 'PROD')    (getVariable('eICR_dataEnv') == 'QA'    getVariable('eICR_dataEnv') == 'PROD')) |                                    |
|  ECR Event Publish.....  | Dynamic Router <a href="#">92</a>  |
| Error Connector   | Page                               |
|  Update MIF Status Publish.....  | Dynamic Router <a href="#">155</a> |

## Extract Returned Data

Filter

**JavaScript**

On ECR\_0\_Person Lookup route

| Javascript   |
|--|
| <pre>var next = output.append(input[0]);  // Parse JSON response var obj = JSON.parse(next.text);  next.setProperty("RESP", next.text);  var PersonMatched = "Y"; if(typeof(obj.External_ID) == "object") { PersonMatched = "N"; } next.setProperty("PersonMatched", PersonMatched); // map to (Y   N) if(PersonMatched == "Y" &amp;&amp; obj.External_ID) {</pre> |

**Javascript**

```

// store the responses
next.setProperty("PersonDate", obj.RequestDateTime);
next.setProperty("PersonSuccess", obj.Success);
next.setProperty("PersonFailureMsg", obj.FailureMessage);
next.setProperty("PersonQuerySuccess", obj.QuerySuccess);
next.setProperty("99_ExternalID", obj.External_ID);

}else{
  next.setProperty("ecrMifStatus", "Person not found");
}

/*
{"NAME":null,"unique":1,"firstName":"Charlette","lastName":"Norman","birthDate":"7/5/1968 12:00:00 AM",
"taxId":null,"productcode1":"","eventid1":null,"productcode2":null,"eventid2":null,"productcode3":null,
"eventid3":null,"productcode4":null,"eventid4":null,"productcode5":null,"eventid5":null,"HEPA":null,"HEPBD":null,
"HEPC":null,"HEPE":null,"HEPX":null,"External_ID":"PTFGUEYMLCRT","UNID":3245650462,"AltBirthDateCount":0,
"AltSSNCount":0,"AltBirthDate": "", "AltSSN": "", "GenderCount":0,"Gender":1,
"PHONE":[{"Phone": "(360) 485-6367","PhoneDateFrom":null,"Type":null,"SourceOfInfo":null}],
"PhoneCount":1,"IDENTIFIER":[{"PersonalIDEffectiveDate": "", "PersonIDNumber": "103465646","SourceOfInfo": "elr","Type": "u"}, {"PersonalIDEffectiveDate": "", "PersonIDNumber": "01720812200","SourceOfInfo": "elr","Type": "pi"}],
"IDENTIFIERCount":2,"Address1": "3725 Wesley Dr NW","Address2": "", "City": "Olympia", "State": "WA", "County": "Thurston County",
"Country": "USA", "ZIP": "98502", "RequestDateTime": "05/09/2022 6:04:21.786", "Success": true, "FailureCode": 0, "FailureMessage": "", "QuerySuccess": 1}
*/

```

**Destinations**

| Name   | Page                                |
|--|-------------------------------------|
| Output Condition: Not a repoll<br>repolleCR does not exist |                                     |
| Database LookUp - Insert WDRS Record.....                  | Database LookUp <a href="#">107</a> |
| Error Connector  | Page                                |
| No-operation OB Check.....                                 | No-operation <a href="#">106</a>    |

**Database LookUp - Insert WDRS Record**

Filter

**Database LookUp**

On ECR\_0\_Person Lookup route

| Configuration Properties |  |
|--------------------------|--|
| Maximum Concurrency      | 0  |
| Database                 | Manual setting                           |
| Configuration File       | Database LookUp - Insert WDRS Record.xml |

| Configuration Properties |            |
|--------------------------|------------|
| Message Type             | Plain text |
| Definition               |            |
| Query Timeout            |            |
| Deadlock Retry Attempts  | 5          |
| Deadlock Retry Delay     | 100        |
| Socket Timeout           | 0          |

| Configuration File: Database LookUp - Insert WDRS Record.xml  |
|---|
| <pre>&lt;config xmlns:ide="http://www.orionhealth.com/Rhapsody/IDE" xmlns:user="http://www.orionhealth.com/Rhapsody/IDE/UserData" version="6" ide:version="6.9.1.78122" ide:idCompatibleVersion="3.0" ide:connectionName="eICR database"&gt;     &lt;driver&gt;net.sourceforge.jtds.jdbc.Driver&lt;/driver&gt;     &lt;url&gt;\$({dbConn_eICR})&lt;/url&gt;     &lt;username /&gt;     &lt;password /&gt;     &lt;binaryEncoding&gt;base64&lt;/binaryEncoding&gt;     &lt;statement name="INSERT INTO [eICR].[dbo].[eCR_WDRSTemporal]" ide:type="executeSql" ide:allowCompoundStatements="true"&gt;         &lt;sql&gt;INSERT INTO [eICR].[dbo].[eCR_WDRSTemporal] (doc_id_root,doc_id_extension,patient_id, patient_id_authority,rr_condition_code,recordNumber, created_by, created_date)  SELECT \$doc_id_root, \$doc_id_extension, \$patient_id, \$patient_id_authority, \$conditionCode, \$recordNumber, 'ECR MIF Route', GETDATE()  WHERE NOT EXISTS (select * from [eCR_WDRSTemporal] where doc_id_root = \$doc_id_root and doc_id_extension = \$doc_id_extension and patient_id = \$patient_id and patient_id_authority = \$patient_id_authority and rr_condition_code = \$conditionCode and recordNumber = \$recordNumber )&lt;/sql&gt;     &lt;/statement&gt; &lt;/config&gt;</pre> |

## Destinations

| Name                       | Page                             |
|----------------------------|----------------------------------|
| No-operation OB Check..... | No-operation <a href="#">106</a> |

## build JSON

### JavaScript

On ECR\_0\_Person Lookup route

Filter

| Javascript   |
|--|
| <pre>/* Single input message case */ // Create the output message var next = output.append(input[0]); var message = next.text;</pre> |

**Javascript**

```

next.setProperty("MessageBody", message); // Database row

// Set properties for ecr and rr lookup later
next.setProperty("patient_id_authority", next.getField('/message/SELECT_eCR/patient_id_authority'));
next.setProperty("patient_id", next.getField('/message/SELECT_eCR/patient_id'));
next.setProperty("doc_id_root", next.getField('/message/SELECT_eCR/doc_id_root'));
next.setProperty("doc_id_extension", next.getField('/message/SELECT_eCR/doc_id_extension'));
next.setProperty("recordNumber", next.getField('/message/SELECT_eCR/RecordNumber'));

// Check if repoll scenario and set variable to be added to MIF status route
if(next.getProperty("rhapsody:InputCommunicationPoint").indexOf("Repoll") != -1){
  next.setProperty("repollECR", true);
}

//get properties for JSON
var firstName      = next.getField('/message/SELECT_eCR/patient_first_name');
var lastName       = next.getField('/message/SELECT_eCR/patient_family_name');
var birthDate      = next.getField('/message/SELECT_eCR/patient_date_of_birth');
var conditionCode  = next.getField('/message/SELECT_eCR/rr_condition_code');
var doc_effective_time = next.getField('/message/SELECT_eCR/doc_effective_time');
next.setProperty("conditionCode", conditionCode);
next.setProperty("doc_effective_time", doc_effective_time);

// Map condition to product for lookup
var productCode = lookup("ECR_ConditionCode_to_ProductCode", "condition_code", conditionCode);

var product_code = '';
if(productCode)
  product_code = productCode.product_code;

next.setProperty("product_code", product_code);

next.setProperty("DriveLookupUrl", getVariable("DriveRootUrl") + "/Person/GetPerson15" );

// Build lookup JSON
var JSON = '{"NAME":"GetPerson15","firstName":"' + firstName + '","lastName":"' + lastName + '"';
JSON += ',"birthDate":"' + birthDate + '"';
JSON += ',"productcode":"' + product_code + '"';
JSON += '}';

// replace message body with call data
next.text = JSON;

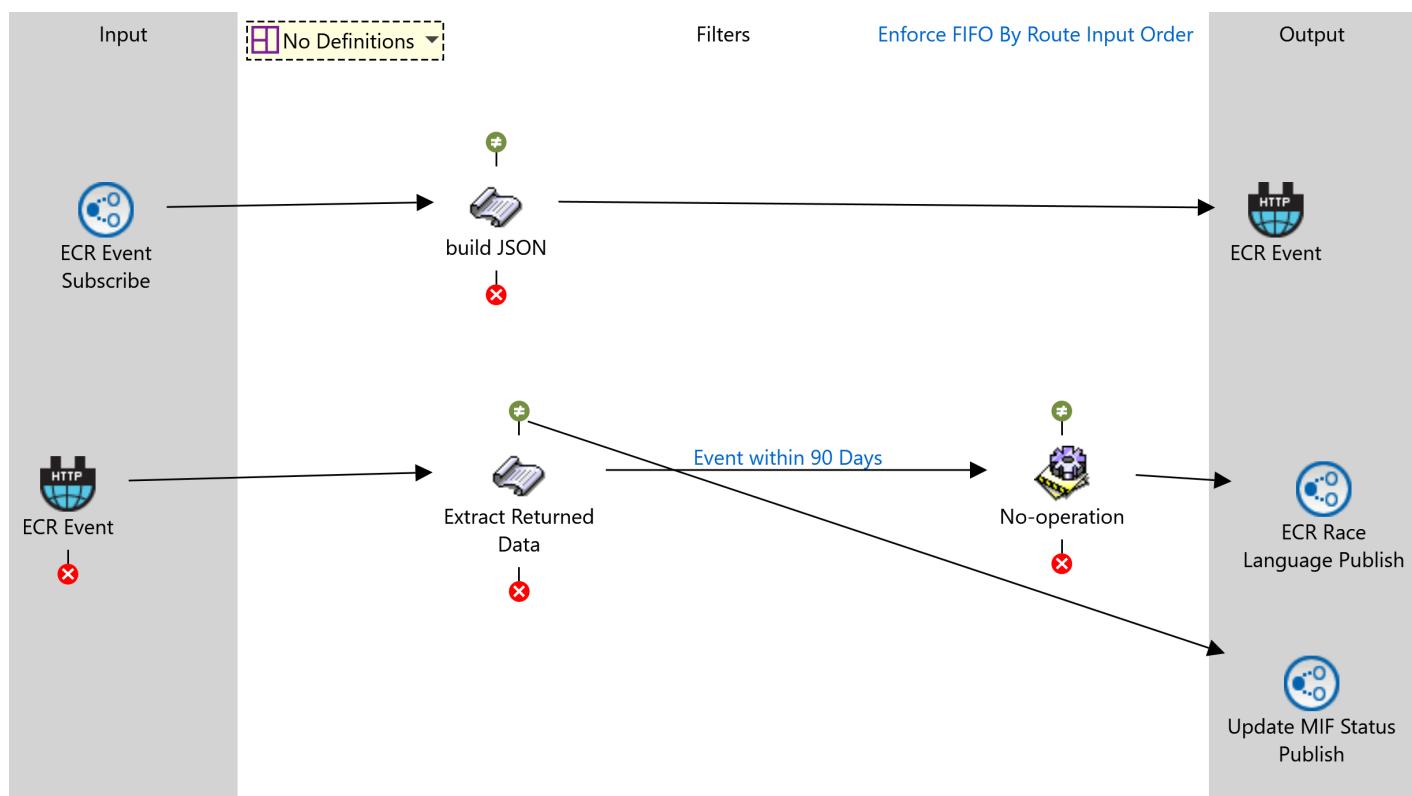
```

**Destinations**

| Name                                | Page |
|-------------------------------------|------|
| Output Condition: Product Code SARS |      |
| product_code = 'SARS'               |      |

| Name  | Page                           |
|---|--------------------------------|
|  ECR Person..... | HTTP Client <a href="#">97</a> |
| Error Connector   | Page                           |
|  Sink.....       | Sink <a href="#">154</a>       |

# ECR\_1\_Event Lookup



## Notes

Author: JK

Desc: Here are the steps involved in this route:

ECR event lookup is called

If the event is within the last 90 days between document and collect time the message continues

If not, the database status is updated and message discarded

| Inputs                         | Page               |
|--------------------------------|--------------------|
| ECR Event Subscribe.....       | Dynamic Router 93  |
| ECR Event.....                 | HTTP Client 90     |
| Outputs                        | Page               |
| ECR Event.....                 | HTTP Client 90     |
| ECR Race Language Publish..... | Dynamic Router 101 |
| Update MIF Status Publish..... | Dynamic Router 155 |

## Filters

| Name                       | Page             |
|----------------------------|------------------|
| build JSON.....            | JavaScript 113   |
| Extract Returned Data..... | JavaScript 113   |
| No-operation.....          | No-operation 113 |

## Details

| General                     |   |
|-----------------------------|---|
| Priority                    | Normal                                      |
| Startup State               | Startup Fourth (only if previously running) |
| FIFO Mode                   | Enforce FIFO By Route Input Order           |
| Stop route on error message | False                                       |

## build JSON

Filter

**JavaScript**

On ECR\_1\_Event Lookup route

**Javascript**

```
/* Single input message case */
// Create the output message
var next = output.append(input[0]);
var message = next.text;
next.setProperty("MessageBody", message); // Database row

next.setProperty("DriveLookupUrl", getVariable("DriveRootUrl") + "/api/GetECREvent" );

// Build lookup JSON
var JSON = '{"NAME": "getECREvent"}';

JSON += ", \"External_ID\": '" + next.getProperty("99_ExternalID") + "' ";
JSON += ", \"productcode\": '" + next.getProperty("product_code") + "' ";
JSON += "}";

// replace message body with call data
next.text = JSON;
```

**Destinations**

| Name   | Page           |
|--|----------------|
|  ECR Event..... | HTTP Client 90 |

## No-operation

Filter

**No-operation**

On ECR\_1\_Event Lookup route

**Destinations**

| Name   | Page               |
|--|--------------------|
|  ECR Race Language Publish..... | Dynamic Router 101 |

## Extract Returned Data

Filter

**JavaScript**

On ECR\_1\_Event Lookup route

**Javascript**

```
var next = output.append(input[0]);

// Parse JSON response
var obj = JSON.parse(next.text);
```

**Javascript**

```

next.setProperty( "RESP" , next.text );

// store the responses
next.setProperty( "EventCreationDate" , obj.EventCreationDate );
next.setProperty( "EventStatus" , obj.EventStatus );
next.setProperty( "Event_ID" , obj.Event_ID );

var specCollectDate = obj.SpecimenCollectionDate;

if(specCollectDate){
    // Convert SpecimenCollectionDate to LocalDate format which is YYYY-MM-DD
    formatter = java.time.format.DateTimeFormatter.ofPattern("MM/dd/yyyy");
    specCollectDate = java.time.LocalDate.parse(obj.SpecimenCollectionDate,formatter)
}

// Change to using doc_effective_time per Claudette 2/21/23. Commenting out current date/time
// in case needed in the future.
//var nowMinus90 = java.time.LocalDate.now();
//nowMinus90 = nowMinus90.minusDays(90);

//20220125124110-0800
var docEffectiveTime = next.getProperty("doc_effective_time").substring(0,8);
formatter = java.time.format.DateTimeFormatter.ofPattern("yyyyMMdd");
var docEffectiveTimeMinus90 = java.time.LocalDate.parse(docEffectiveTime,formatter).minusDays(90);

// Compare dates
if(specCollectDate)
{
    if(specCollectDate > docEffectiveTimeMinus90){

    }
    else{
        next.setProperty("ecrMifStatus","ECR Event too old");

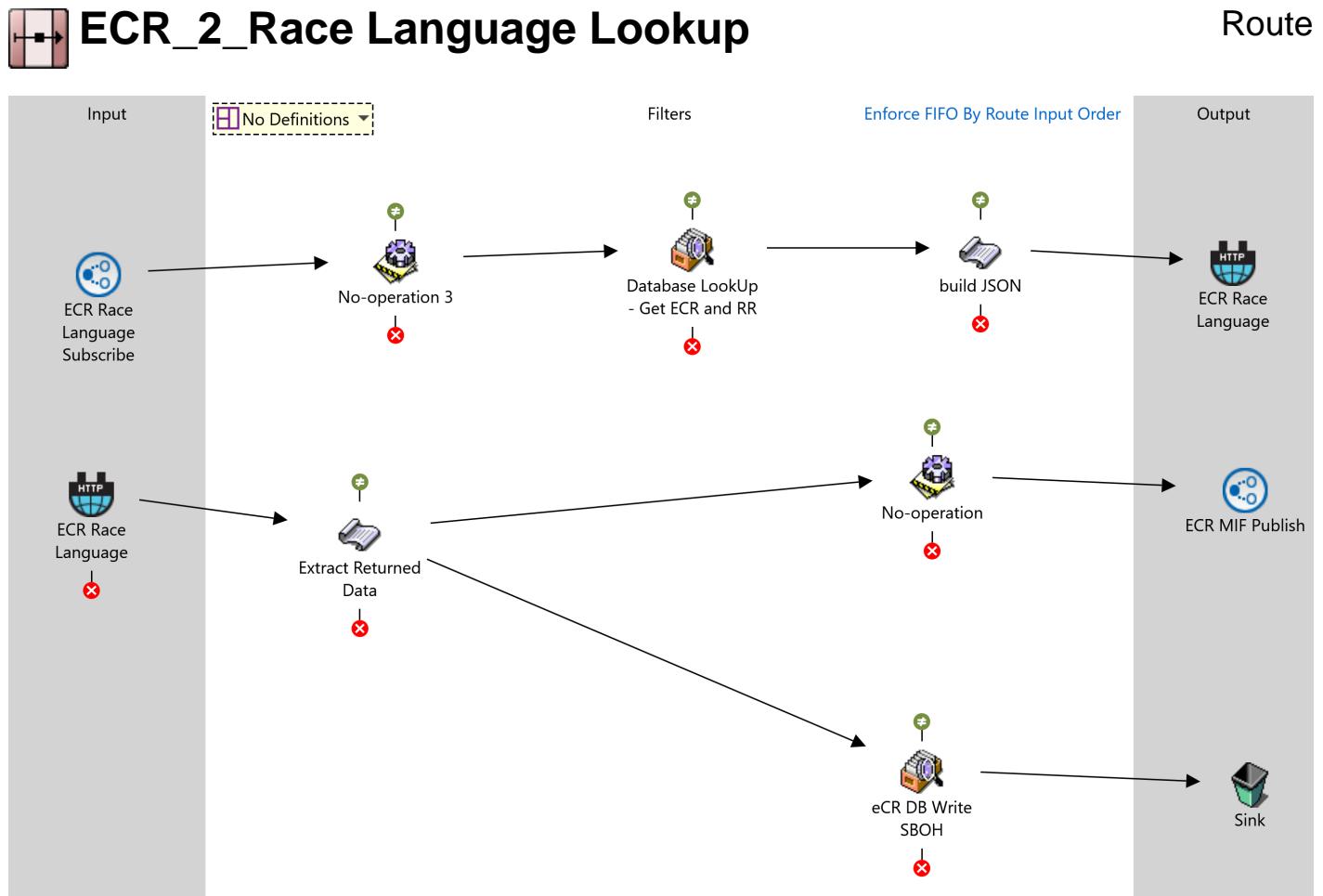
    }
}
else{
    next.setProperty("ecrMifStatus","Positive SARS lab not found");
}

/*
{"NAME":null,"Event_ID":"eCR_KING","EventCreationDate":"6/1/2022 9:44:43 AM","EventStatus":"Open","EventCreatedBy":"{ LOGIN_NAME = claudette.mcintosh }","SpecimenCollectionDate":"","Never_Match":true,"Death_Date": "", "RequestDateTime": "09/20/2022 14:17:31.298", "Success":true,"FailureCode":0,"FailureMessage": "", "QuerySuccess":1}
*/

```

## Destinations

| Name                                   | Page                               |
|--|------------------------------------|
| Output Condition: Event within 90 Days |                                    |
| ecrMifStatus does not exist            |                                    |
| No-operation.....                      | No-operation <a href="#">113</a>   |
| Error Connector                        | Page                               |
| Update MIF Status Publish.....         | Dynamic Router <a href="#">155</a> |

**Notes**

Author: JK

Desc: Here are the steps involved in this route:

Database lookup is done to grab the raw ECR and RR

Race and language API is called

The race and language API return values are stored as properties for future use

The SBOH tables are updated with the API returned results

| Inputs                           | Page               |
|----------------------------------|--------------------|
| ECR Race Language Subscribe..... | Dynamic Router 102 |
| ECR Race Language.....           | HTTP Client 99     |
| Outputs                          | Page               |
| ECR Race Language.....           | HTTP Client 99     |
| ECR MIF Publish.....             | Dynamic Router 95  |
| Sink.....                        | Sink 154           |

**Filters**

| Name            | Page           |
|-----------------|----------------|
| build JSON..... | JavaScript 118 |

| Name                                  |                 | Page |
|---------------------------------------|-----------------|------|
| Database LookUp - Get ECR and RR..... | Database LookUp | 120  |
| eCR DB Write SBOH.....                | Database LookUp | 122  |
| Extract Returned Data.....            | JavaScript      | 121  |
| No-operation.....                     | No-operation    | 121  |
| No-operation 3.....                   | No-operation    | 123  |

## Details

| General                     |   |
|-----------------------------|---|
| Priority                    | Normal                                      |
| Startup State               | Startup Fourth (only if previously running) |
| FIFO Mode                   | Enforce FIFO By Route Input Order           |
| Stop route on error message | False                                       |

 **build JSON**

Filter

**JavaScript**

On ECR\_2\_Race Language Lookup route

**Javascript**

```

/* Single input message case */
// Create the output message
var next = output.append(input[0]);

// Grab xml input messags
next.xml = XML(next.getProperty( "ECR_XML" ) );

next.setProperty("RaceLanguageAPIUrl", getVariable("RaceLanguageAPIRootUrl")+ "/RaceLanguageAPI
/RaceLanguage/" );
next.setProperty("ReligionCode", next.getField("/ClinicalDocument/recordTarget[1]/patientRole/
patient/religiousAffiliationCode/@code" ) );
next.setProperty("RaceCode", next.getField("/ClinicalDocument/recordTarget[1]/patientRole/pat
ient/raceCode[0]/@code" ) ;

var raceRepeat = next.getRepeatCount( "/ClinicalDocument/recordTarget[1]/patientRole/patient/
raceCode" )

var raceLangJSON = '';

for (var i = 1; i <= raceRepeat; i++) {
  if(i > 1){
    raceLangJSON += ',{';
  }
  else{
    raceLangJSON = '"races": [ {';
  }

  raceCode = next.getField("/ClinicalDocument/recordTarget[1]/patientRole/patient/raceCode[ "+i
+" ]/@code" );

  if(!raceCode){
    raceCode = next.getField("/ClinicalDocument/recordTarget[1]/patientRole/patient/raceCode[ "+i
+" ]/nullFlavor" );
  }

  raceLangJSON += '"conceptCode":"' + '""' + raceCode + '""';
  raceLangJSON += ',"codingSystem":"' + '""' + next.getField("/ClinicalDocument/recordTarget[1]/
patientRole/patient/raceCode["+i+"]/@codeSystem" ) + '""';
  raceLangJSON += ',"description":"' + '""' + next.getField("/ClinicalDocument/recordTarget[1]/
patientRole/patient/raceCode["+i+"]/@displayName" ) + '""';
  raceLangJSON += '}';
}

if(raceLangJSON != ''){
  raceLangJSON += '] ';
}

var languageRepeat = next.getRepeatCount( "/ClinicalDocument/recordTarget[1]/patientRole/patient/
languageCommunication[languageCode[@code!='']]//languageCode" )
var languageRepeatTrue = next.getRepeatCount( "/ClinicalDocument/recordTarget[1]/patientRole/pat
ient/languageCommunication[preferenceInd[@value='true']]//languageCode" )

```

**Javascript**

```

var languageNullFlavorRepeat = next.getRepeatCount("/ClinicalDocument/recordTarget[1]/patientRole/patient/languageCommunication/languageCode")

var language = '';
if(languageRepeatTrue > 0){
  for (var i = 1; i <= languageRepeat; i++) {
    language = next.getField("/ClinicalDocument/recordTarget[1]/patientRole/patient/languageCommunication[preferenceInd[@value='true']]["+i+"]languageCode/@code");
  }
  if(language){
    if(raceLangJSON != ''){
      raceLangJSON += ', "languages": [ {';
    }else{
      raceLangJSON = '"languages": [ {';
    }
    raceLangJSON += '"conceptCode":"' + '""' + language + '""';
    raceLangJSON += '} ]';
    break;
  }
}
else if(languageRepeat > 0){
  language = next.getField("/ClinicalDocument/recordTarget[1]/patientRole/patient/languageCommunication/languageCode/@code");

  if(language){
    if(raceLangJSON != ''){
      raceLangJSON += ', "languages": [ {';
    }else{
      raceLangJSON = '"languages": [ {';
    }
    raceLangJSON += '"conceptCode":"' + '""' + language + '""';
    raceLangJSON += '} ]';
  }
}
else if(languageNullFlavorRepeat > 0){
  language = next.getField("/ClinicalDocument/recordTarget[1]/patientRole/patient/languageCommunication/languageCode/@nullFlavor");

  if(language){
    if(raceLangJSON != ''){
      raceLangJSON += ', "languages": [ {';
    }else{
      raceLangJSON = '"languages": [ {';
    }
    raceLangJSON += '"conceptCode":"' + '""' + language + '""';
    raceLangJSON += '} ]';
  }
}

// Build lookup JSON
var JSON = '{ ' + raceLangJSON
JSON += " }";

```

**Javascript**

```
// replace message body with call data
next.text = JSON;
```

**Destinations**

| Name   | Page           |
|--|----------------|
|  ECR Race Language..... | HTTP Client 99 |

 **Database LookUp - Get ECR and RR**

Filter

**Database LookUp**

On ECR\_2\_Race Language Lookup route

| Configuration Properties |                     |
|--------------------------|---------------------|
| Maximum Concurrency      | 0                   |
| Database                 | Manual setting      |
| Configuration File       | Database LookUp.xml |
| Message Type             | Plain text          |
| Definition               |                     |
| Query Timeout            | 0                   |
| Deadlock Retry Attempts  | 5                   |
| Deadlock Retry Delay     | 100                 |
| Socket Timeout           | 0                   |

**Configuration File: Database LookUp.xml**

```
<config xmlns:ide="http://www.orionhealth.com/Rhapsody/IDE" xmlns:user="http://www.orionhealth.com/Rhapsody/IDE/UserData" version="6" ide:version="6.9.1.78122" ide:idCompatibleVersion="3.0" ide:connectionName="eICR database">
  <driver>net.sourceforge.jtds.jdbc.Driver</driver>
  <url>${dbConn_eICR}</url>
  <username />
  <password />
  <binaryEncoding>base64</binaryEncoding>
  <statement name="New Statement" ide:type="executeSql" ide:allowCompoundStatements="true">
    <sql>SELECT
      [docRawXML],
      [docRawRRXML]

    FROM [eICR].[dbo].[eCR_eCRXML]

    WHERE
      [patient_id_authority] = $patient_id_authority AND
      [patient_id]      = $patient_id AND
      [doc_id_root]       = $doc_id_root AND
      [doc_id_extension]     = $doc_id_extension</sql>
      <substituteColumn name="docRawXML">$ECR_XML</substituteColumn>
      <substituteColumn name="docRawRRXML">$RR_XML</substituteColumn>
    </statement>
  </config>
```

## Destinations

| Name            | Page                           |
|-----------------|--------------------------------|
| build JSON..... | JavaScript <a href="#">118</a> |

 **No-operation** Filter

**No-operation**  
On ECR\_2\_Race Language Lookup route

## Destinations

| Name                 | Page                              |
|----------------------|-----------------------------------|
| ECR MIF Publish..... | Dynamic Router <a href="#">95</a> |

 **Extract Returned Data** Filter

**JavaScript**  
On ECR\_2\_Race Language Lookup route

| Javascript   |
|--|
| <pre> var next = output.append(input[0]);  if(next.text){      // Parse JSON response     var obj = JSON.parse(next.text);      next.setProperty("SbohRaceLanguageResponse", next.text);      // store the responses     if(obj.races[0]){         next.setProperty("RaceConceptCode", obj.races[0].conceptCode);         next.setProperty("RaceDescription", obj.races[0].description);         next.setProperty("RaceCodingSystem", obj.races[0].codingSystem);      }      if(obj.languages[0]){         next.setProperty("LanguageConceptCode", obj.languages[0].conceptCode);         next.setProperty("LanguageDescription", obj.languages[0].description);         next.setProperty("LanguageCodingSystem", obj.languages[0].codingSystem);     }      /*     {         "languages": [             {                 "conceptCode": "eng",                 "description": "null",                 "codingSystem": "null"             }         ]     } } </pre> |

**Javascript**

```

],
"races": [
{
    "conceptCode": "2106-3",
    "description": "CDC Race and Ethnicity",
    "codingSystem": "2.16.840.1.113883.6.238"
}
]

*/
}

```

**Destinations**

| Name                   |                 | Page                |
|------------------------|-----------------|---------------------|
| eCR DB Write SBOH..... | Database LookUp | <a href="#">122</a> |
| No-operation.....      | No-operation    | <a href="#">121</a> |

**eCR DB Write SBOH**

Filter

**Database LookUp**

On ECR\_2\_Race Language Lookup route

| Configuration Properties |                       |
|--------------------------|-----------------------|
| Maximum Concurrency      | 0                     |
| Database                 | Manual setting        |
| Configuration File       | eCR DB Write SBOH.xml |
| Message Type             | Plain text            |
| Definition               |                       |
| Query Timeout            |                       |
| Deadlock Retry Attempts  | 5                     |
| Deadlock Retry Delay     | 100                   |
| Socket Timeout           | 0                     |

**Configuration File: eCR DB Write SBOH.xml**

```

<config xmlns:ide="http://www.orionhealth.com/Rhapsody/IDE" xmlns:user="http://www.orionhealth.com/Rhapsody/IDE/UserData" version="6" ide:version="6.9.1.78122" ide:idcCompatibleVersion="3.0" ide:connectionName="eICR database">
<driver>net.sourceforge.jtds.jdbc.Driver</driver>
<url>$({dbConn_eICR})</url>
<username />
<password />
<binaryEncoding>base64</binaryEncoding>
<statement name="New Statement" ide:type="executeSql" ide:allowCompoundStatements="true">
<sql>UPDATE [eICR].[dbo].[eCR_eCRTemporal]

SET
patient_sboh_race=$RaceDescription,
patient_sboh_race_code=$RaceConceptCode,
```

**Configuration File: eCR DB Write SBOH.xml**

```

patient_sboh_race_code_system=$RaceCodingSystem,
patient_sboh_language_code=$LanguageConceptCode,
patient_sboh_language=$LanguageDescription,
patient_sboh_language_code_system=$LanguageCodingSystem

WHERE
  patient_id_authority=$patient_id_authority and
  patient_id=$patient_id and
  doc_id_root=$doc_id_root and
  doc_id_extension=$doc_id_extension</sql>
</statement>
</config>
```

**Destinations**

| Name  | Page                     |
|---|--------------------------|
|  Sink..... | Sink <a href="#">154</a> |

 **No-operation 3**

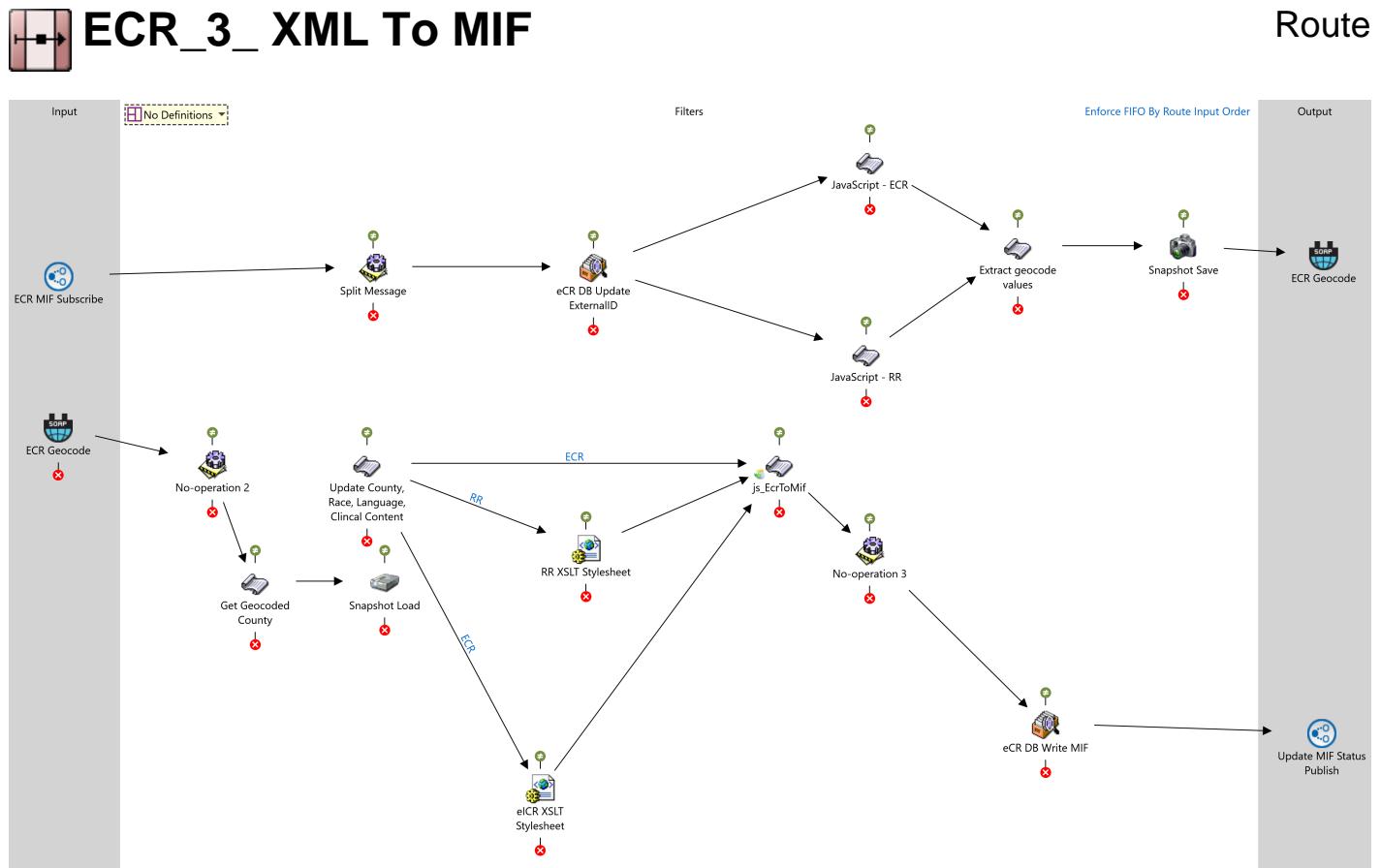
Filter

**No-operation**

On ECR\_2\_Race Language Lookup route

**Destinations**

| Name  | Page                                |
|---|-------------------------------------|
|  Database LookUp - Get ECR and RR..... | Database LookUp <a href="#">120</a> |



### Notes

Author: JK

Desc: Here are the steps involved in this route:

Database updated with WDRS External ID

Messages are split to the ECR and RR each get Geocoded

Geocode web service is called to get the county

The county is updated in the ECR and RR

Race, language are updated in the ECR and RR

The clinical content is removed from the ECR and a custom clinical section is added

Stylesheet is applied to both the ECR and RR

The ECR MIF is built with question package fields added along with the base64 encoded ECR. The RR is not included in the MIF

If the message is for the OB environment and the patient was not found, additional attributes are added to the PartyDefinition

The ECR destination folder path, file name, and file suffix are added as variables.

A copy of the ECR is sent to the Common route for file output

A copy of the ECR is written to the database along with other ECR attributes

The MIF status is updated in the database.

| Inputs  | Page |
|---|------|
| ECR MIF Subscribe..... Dynamic Router         | 96   |
| ECR Geocode..... SOAP Web Service Client      | 94   |
| Outputs                                       | Page |
| ECR Geocode..... SOAP Web Service Client      | 94   |
| Update MIF Status Publish..... Dynamic Router | 155  |

## Filters

| Name   |                 | Page |
|--|-----------------|------|
| eCR DB Update ExternalID.....                        | Database LookUp | 135  |
| eCR DB Write MIF.....                                | Database LookUp | 134  |
| eICR XSLT Stylesheet.....                            | XSLT Stylesheet | 126  |
| Extract geocode values.....                          | JavaScript      | 133  |
| Get Geocoded County.....                             | JavaScript      | 136  |
| JavaScript - ECR.....                                | JavaScript      | 126  |
| JavaScript - RR.....                                 | JavaScript      | 128  |
| js_EcrToMif.....                                     | JavaScript      | 136  |
| No-operation 2.....                                  | No-operation    | 132  |
| No-operation 3.....                                  | No-operation    | 126  |
| RR XSLT Stylesheet.....                              | XSLT Stylesheet | 126  |
| Snapshot Load.....                                   | Snapshot Load   | 134  |
| Snapshot Save.....                                   | Snapshot Save   | 132  |
| Split Message.....                                   | No-operation    | 135  |
| Update County, Race, Language, Clinical Content..... | JavaScript      | 128  |

## Details

| General                     |   |
|-----------------------------|---|
| Priority                    | Normal                                    |
| Startup State               | Startup Last (only if previously running) |
| FIFO Mode                   | Enforce FIFO By Route Input Order         |
| Stop route on error message | False                                     |



## eICR XSLT Stylesheet

### XSLT Stylesheet

On ECR\_3 XML To MIF route

Filter

| Configuration Properties |                    |
|--------------------------|--------------------|
| Maximum Concurrency      | 0                  |
| XSLT File                | CDAR2_eCR_eICR.xsl |
| Input EDI Definition     |                    |
| Output EDI Definition    |                    |

## Destinations

| Name   | Page                           |
|--|--------------------------------|
|  js_EcrToMif..... | JavaScript <a href="#">136</a> |



## RR XSLT Stylesheet

### XSLT Stylesheet

On ECR\_3 XML To MIF route

Filter

| Configuration Properties |   |
|--------------------------|---|
| Maximum Concurrency      | 0   |
| XSLT File                | CDAR2_IG_PHCR_R2_RR_D1_2017DEC_STYLESHEET.xsl |
| Input EDI Definition     |   |
| Output EDI Definition    |   |

## Destinations

| Name   | Page                           |
|--|--------------------------------|
|  js_EcrToMif..... | JavaScript <a href="#">136</a> |



## No-operation 3

### No-operation

On ECR\_3 XML To MIF route

Filter

## Destinations

| Name  | Page                                |
|---|-------------------------------------|
|  eCR DB Write MIF..... | Database LookUp <a href="#">134</a> |



## JavaScript - ECR

### JavaScript

Filter

## On ECR\_3\_ XML To MIF route

## Javascript

```

// Create the output message
var next = output.append(input[0]);

// Grab xml input messags
next.xml = XML(next.getProperty("RR_XML"));

next.setProperty("RR_DisplayName",next.getField("/ClinicalDocument/component/structuredBody/comp
ponent[section/templateId/@root='2.16.840.1.113883.10.20.15.2.2.2']/section/entry[organizer/tem
plateId/@root='2.16.840.1.113883.10.20.15.2.3.34']/organizer/component[observation[entryRela
tionship/organizer/participant/participantRole/id/@extension='wa']/value/@code='840539006'][1]
]/observation[entryRelationship/organizer/participant/participantRole/id/@extension='wa']/value
[@code='840539006']/@displayName"));

// Loop to get each determination seperate them by item tags
var RR_Determination = '';
var determinationRepeat = next.getRepeatCount("/ClinicalDocument/component/structuredBody/com
ponent[section/templateId/@root='2.16.840.1.113883.10.20.15.2.2.2']/section/entry[organizer
/templateId/@root='2.16.840.1.113883.10.20.15.2.3.34']/organizer/component[observation[entry
Relationship/organizer/participant/participantRole/id/@extension='wa']/value/@code='840539006
'][1]/observation[entryRelationship/organizer/participant/participantRole/id/@extension='wa
']/entryRelationship[organizer/participant/participantRole/id/@extension='wa']/organizer[par
ticipant/participantRole/id/@extension='wa']/component[observation/templateId/@root='2.16.840
.1.113883.10.20.15.2.3.19']/observation[templateId/@root='2.16.840.1.113883.10.20.15.2.3.19
']/entryRelationship[observation/templateId/@root='2.16.840.1.113883.10.20.15.2.3.27']/observat
ion[templateId/@root='2.16.840.1.113883.10.20.15.2.3.27'])");

for (var i = 1; i <= determinationRepeat; i++) {

    RR_Determination += next.getField("/ClinicalDocument/component/structuredBody/component[sec
tion/templateId/@root='2.16.840.1.113883.10.20.15.2.2.2']/section/entry[organizer/templateId/
@root='2.16.840.1.113883.10.20.15.2.3.34']/organizer/component[observation[entryRelationship/
organizer/participant/participantRole/id/@extension='wa']/value/@code='840539006'][1]/observa
tion[entryRelationship/organizer/participant/participantRole/id/@extension='wa']/entryRelation
ship[organizer/participant/participantRole/id/@extension='wa']/organizer[participant/partici
partRole/id/@extension='wa']/component[observation/templateId/@root='2.16.840.1.113883.10.20.15
.2.3.19']/observation[templateId/@root='2.16.840.1.113883.10.20.15.2.3.19']/entryRelationship
[observation/templateId/@root='2.16.840.1.113883.10.20.15.2.3.27']/observation[templateId/@root
='2.16.840.1.113883.10.20.15.2.3.27']["+i+"]]/value") + "|";
}

next.setProperty("RR_Determination",RR_Determination);

/* Comment out per Claudette 2/7/2023
next.setProperty("RR_Determination_Reasons",next.getField("/ClinicalDocument/component/struc
turedBody/component[section/templateId/@root='2.16.840.1.113883.10.20.15.2.2.2']/section/
entry[organizer/templateId/@root='2.16.840.1.113883.10.20.15.2.3.34']/organizer/component[ob
servation[entryRelationship/organizer/participant/participantRole/id/@extension='wa']/value/
@code='840539006'][1]/observation[entryRelationship/organizer/participant/participantRole/id/
@extension='wa']/entryRelationship[organizer/participant/participantRole/id/@extension='wa']/or
ganizer[participant/participantRole/id/@extension='wa']/component[observation/templateId/
@root='2.16.840.1.113883.10.20.15.2.3.19']/observation[templateId/@root='2.16.840.1.113883.10
.20.15.2.3.19']/entryRelationship[observation/templateId/@root='2.16.840.1.113883.10.20.15.2.3
.26']/observation[templateId/@root='2.16.840.1.113883.10.20.15.2.3.26']/value"));
*/
next.xml = XML(next.getProperty("ECR XML"));

```

**Javascript**

```
next.setProperty( "RR_XML" ,null );
```

**Destinations**

| Name                        | Page                           |
|-----------------------------|--------------------------------|
| Extract geocode values..... | JavaScript <a href="#">133</a> |

 **JavaScript - RR**

Filter

**JavaScript**

On ECR\_3\_ XML To MIF route

**Javascript**

```
// Create the output message
var next = output.append(input[0]);

// Grab xml input messags
next.xml = XML(next.getProperty( "RR_XML" ) );
next.setProperty( "ECR_XML" ,null );
```

**Destinations**

| Name                        | Page                           |
|-----------------------------|--------------------------------|
| Extract geocode values..... | JavaScript <a href="#">133</a> |

 **Update County, Race, Language, Clinical Content**

Filter

**JavaScript**

On ECR\_3\_ XML To MIF route

**Javascript**

```
// Create the output message
var next = output.append(input[0]);

var caseid;
var county = next.getProperty("GeocodedCounty");

// If the county is available update
if(county){

    // Update xml with geocoded county
    // Commenting out for now, will be used later per WADOH029
    //next.setField("/ClinicalDocument/recordTarget/patientRole/addr[1]/county",county)

}
```

**Javascript**

```

// Lookup race description using code AlaskaNative
var lookupTable = getLookupTable("RaceSBOH_AlaskaNative");
var columnObj = new ColumnValue("ConceptCode", next.getProperty("RaceCode") );
var raceDescription = lookupTable.lookup(columnObj, "Description");
if(raceDescription){
    // Update xml
    next.setField("/ClinicalDocument/recordTarget[1]/patientRole/patient/raceCode[1]/@code", "1735
-0")
    next.setField("/ClinicalDocument/recordTarget[1]/patientRole/patient/raceCode[1]/@displayName
", "Alaska Native")
    next.setField("/ClinicalDocument/recordTarget[1]/patientRole/patient/raceCode[1]/@codeSystem
", "CDCREC")

}
else{

    // Lookup race description using code AmericanIndian
    lookupTable = getLookupTable("RaceSBOH_AmericanIndian");
    columnObj = new ColumnValue("ConceptCode", next.getProperty("RaceCode") );
    raceDescription = lookupTable.lookup(columnObj, "Description");
    if(raceDescription){
        // Update xml
        next.setField("/ClinicalDocument/recordTarget[1]/patientRole/patient/raceCode[1]/@code", "1004
-1")
        next.setField("/ClinicalDocument/recordTarget[1]/patientRole/patient/raceCode[1]/@displayName
", "American Indian")
        next.setField("/ClinicalDocument/recordTarget[1]/patientRole/patient/raceCode[1]/@codeSystem
", "CDCREC")

    }
}

// If race was not already updated, attempt to update with API returned value
if(!raceDescription){
    var sbohRace = next.getProperty("SbohRaceLanguageResponse");
    // Parse JSON
    var obj = JSON.parse(sbohRace);
    if(obj){
        for(var i = 1; i <= next.getRepeatCount("/ClinicalDocument/recordTarget[1]/patientRole/pat
ient/raceCode"); i++){
            if(obj.races[i-1].description != "null")
                next.setField("/ClinicalDocument/recordTarget[1]/patientRole/patient/raceCode["+i+"]/@dis
playName", obj.races[i-1].description)
            else
                next.setField("/ClinicalDocument/recordTarget[1]/patientRole/patient/raceCode["+i+"]/@dis
playName", obj.races[i-1].conceptCode)
        }
    }
}

// Lookup language description using code
var lookupTable = getLookupTable("LanguageCodeSystem");
var languageConceptCode = next.getProperty("LanguageConceptCode")
var columnObj = new ColumnValue("Code", languageConceptCode );
var languageDescription = lookupTable.lookup(columnObj, "Description");

```

**Javascript**

```

/* Remove language description per Claudette 2/8/2023
if(languageDescription){
  // Update xml
  next.setField("/ClinicalDocument/recordTarget[1]/patientRole/patient/languageCommunication[prefe
renceInd[@value='true']]//languageCode/@displayName",languageDescription)
  next.setProperty("LanguageDescription",languageDescription);
} */

// Update first code and remove second language if there is one
var language = next.getProperty( "LanguageConceptCode" );
var languageRepeat = next.getRepeatCount( "/ClinicalDocument/recordTarget[1]/patientRole/patient
/languageCommunication[languageCode[@code!='']]//languageCode" )
var languageRepeatTrue = next.getRepeatCount( "/ClinicalDocument/recordTarget[1]/patientRole/pat
ient/languageCommunication[preferenceInd[@value='true']]//languageCode" )
var languageNullCount = next.getRepeatCount( "/ClinicalDocument/recordTarget[1]/patientRole/pat
ient/languageCommunication/languageCode@nullFlavor" )

if(languageRepeatTrue > 0 && language != null){
  next.setField("/ClinicalDocument/recordTarget[1]/patientRole/patient/languageCommunication[1]/
languageCode/@code",language)
  next.setField("/ClinicalDocument/recordTarget[1]/patientRole/patient/languageCommunication[1]/
preferenceInd/@value",'true')
  // Loop for all languages after the first to remove
  while(next.getRepeatCount( "/ClinicalDocument/recordTarget[1]/patientRole/patient/languageComm
unication" ) > 1){
    next.setField("/ClinicalDocument/recordTarget[1]/patientRole/patient/languageCommunication[2]
",null);
  }
}
else if(languageNullCount > 0 && languageConceptCode != null){

  next.setField("/ClinicalDocument/recordTarget[1]/patientRole/patient/languageCommunication/lan
guageCode/@code",languageConceptCode)
  next.setField("/ClinicalDocument/recordTarget[1]/patientRole/patient/languageCommunication/pre
ferenceInd/@value","true")

  // Loop for all languages after the first to remove
  while(next.getRepeatCount( "/ClinicalDocument/recordTarget[1]/patientRole/patient/languageComm
unication" ) > 1){
    next.setField("/ClinicalDocument/recordTarget[1]/patientRole/patient/languageCommunication[2]
",null);
  }
}

// Lookup language description using code
var lookupTable = getLookupTable("ReligiousAffiliationCodeSystem");
var columnObj = new ColumnValue("Code", next.getProperty("ReligionCode") );
var religionDescription = lookupTable.lookup(columnObj, "Description");
if(religionDescription){
  // Update xml
  next.setField("/ClinicalDocument/recordTarget[1]/patientRole/patient/religiousAffiliationCode/
@displayName",religionDescription)
  next.setProperty("ReligionDescription",religionDescription);
}

if(!caseid){

```

**Javascript**

```

// Use default case id
next.setProperty("caseid","eCR_ERR");
}else{
  next.setProperty("caseid",caseid.CASEID);
}

// If we have the ECR, remove the conditons and add RR content
if(next.getProperty("ECR_XML")){
next.setField("/ClinicalDocument/component/structuredBody",null);

next.setField("/ClinicalDocument/component/structuredBody/component/section/templateId/@ext
ension","2017-04-01")
next.setField("/ClinicalDocument/component/structuredBody/component/section/templateId/@root
","2.16.840.1.113883.10.20.15.2.2.2")

next.setField("/ClinicalDocument/component/structuredBody/component/section/code/@code","55112
-7")
next.setField("/ClinicalDocument/component/structuredBody/component/section/code/@codeSystem
","2.16.840.1.113883.6.1")
next.setField("/ClinicalDocument/component/structuredBody/component/section/code/@codeSystem
Name","LOINC")
next.setField("/ClinicalDocument/component/structuredBody/component/section/title","Reporta
bility Response")

next.setField("/ClinicalDocument/component/structuredBody/component/section/text/list[1]/@list
Type","ordered")
next.setField("/ClinicalDocument/component/structuredBody/component/section/text/list[1]/cap
tion",next.getProperty("RR_DisplayName"))

next.setField("/ClinicalDocument/component/structuredBody/component/section/text/paragraph
","Determination of reportability rule(s):")

var rrDetermination = next.getProperty("RR_Determination").split(" | ");
for(i = 0; i < rrDetermination.length; i++){
  if(rrDetermination[i])
    next.setField("/ClinicalDocument/component/structuredBody/component/section/text/list[2]/item
["++(i+1)+"]",rrDetermination[i])
}

/* Remove reasons per Claudette 2/7/2023
next.setField("/ClinicalDocument/component/structuredBody/component/section/text/paragraph[4
]","Determination of reportability reason(s):")

next.setField("/ClinicalDocument/component/structuredBody/component/section/text/paragraph[5
]",next.getProperty("RR_Determination_Reasons"))
*/
}

}

```

**Javascript****Destinations**

| Name  | Page                                |
|---|-------------------------------------|
| Output Condition: ECR   |                                     |
| ECR_XML exists  |                                     |
|  eICR XSLT Stylesheet..... | XSLT Stylesheet <a href="#">126</a> |
| Output Condition: ECR   |                                     |
| ECR_XML exists  |                                     |
|  js_EcrToMif.....          | JavaScript <a href="#">136</a>      |
| Output Condition: RR  |                                     |
| RR_XML exists   |                                     |
|  RR XSLT Stylesheet..... | XSLT Stylesheet <a href="#">126</a> |

 **Snapshot Save**

Filter

**Snapshot Save**

On ECR\_3\_ XML To MIF route

**Destinations**

| Name   | Page                                       |
|--|--|
|  ECR Geocode..... | SOAP Web Service Client <a href="#">94</a> |

 **No-operation 2**

Filter

**No-operation**

On ECR\_3\_ XML To MIF route

**Destinations**

| Name   | Page                           |
|--|--------------------------------|
|  Get Geocoded County..... | JavaScript <a href="#">136</a> |

# Extract geocode values

Filter

## JavaScript

On ECR\_3\_XML To MIF route

### Javascript

```
// Get the fields needed to query the Geocoding service
// for the county

// Create the output message
var next = output.append(input[0]);

// Grab xml input messags
var eicr_xml = input[0];

var postalCode, streetAddressLine, city, state;

// Get the fields from the XML
postalCode = eicr_xml.getField("/ClinicalDocument/recordTarget/patientRole/addr[1]/postalCode")
streetAddressLine = eicr_xml.getField("/ClinicalDocument/recordTarget/patientRole/addr[1]/streetAddressLine")
city = eicr_xml.getField("/ClinicalDocument/recordTarget/patientRole/addr[1]/city")
state = eicr_xml.getField("/ClinicalDocument/recordTarget/patientRole/addr[1]/state")

// If the address is empty or the state no WA, use provider address
if(!streetAddressLine || ( (state) && state !='WA')){
  postalCode = eicr_xml.getField("/ClinicalDocument/componentOf/encompassingEncounter/responsibleParty/assignedEntity/representedOrganization/addr/postalCode");
  streetAddressLine = eicr_xml.getField("/ClinicalDocument/componentOf/encompassingEncounter/responsibleParty/assignedEntity/representedOrganization/addr/streetAddressLine");
  city = eicr_xml.getField("/ClinicalDocument/componentOf/encompassingEncounter/responsibleParty/assignedEntity/representedOrganization/addr/city");
  state = eicr_xml.getField("/ClinicalDocument/componentOf/encompassingEncounter/responsibleParty/assignedEntity/representedOrganization/addr/state");
}

// Populate fields needed for geocode as properties
next.setProperty("postalCode", postalCode);
next.setProperty("streetAddressLine", streetAddressLine);
next.setProperty("city", city);
next.setProperty("state", state);

// Keep original input message as a property as the gecode gets called
//next.setProperty("XmlInput", input[0].text);
```

## Destinations

| Name   | Page                              |
|--|-----------------------------------|
|  Snapshot Save..... | Snapshot Save <a href="#">132</a> |



## Snapshot Load

Filter

**Snapshot Load**

On ECR\_3\_XML To MIF route

**Configuration Properties**

|                                     |      |
|-------------------------------------|------|
| Fail on Processing Error            | true |
| Fail on Missing Snapshot Properties | true |

**Destinations**

| Name   | Page                           |
|--|--------------------------------|
| Update County, Race, Language, Clinical Content..... | JavaScript <a href="#">128</a> |



## eCR DB Write MIF

Filter

**Database LookUp**

On ECR\_3\_XML To MIF route

**Configuration Properties**

|                         |                      |
|-------------------------|----------------------|
| Maximum Concurrency     | 0                    |
| Database                | Manual setting       |
| Configuration File      | eCR DB Write MIF.xml |
| Message Type            | Plain text           |
| Definition              |                      |
| Query Timeout           |                      |
| Deadlock Retry Attempts | 5                    |
| Deadlock Retry Delay    | 100                  |
| Socket Timeout          | 0                    |

**Configuration File: eCR DB Write MIF.xml**

```

<config xmlns:ide="http://www.orionhealth.com/Rhapsody/IDE" xmlns:user="http://www.orionhealth.com/Rhapsody/IDE/UserData" version="6" ide:version="6.9.1.78122" ide:idCompatibleVersion="3.0" ide:connectionName="eICR database">
  <driver>net.sourceforge.jtds.jdbc.Driver</driver>
  <url>$({dbConn_eICR})</url>
  <username />
  <password />
  <binaryEncoding>base64</binaryEncoding>
  <statement name="New Statement" ide:type="executeSql" ide:allowCompoundStatements="true">
    <sql>UPDATE [eICR].[dbo].[eCR_WDRSTemporal]
      SET
        mif_rawXML = $messageContent,
        mif_delivered_by='ECR MIF Route',
        mif_delivered_date=GETDATE(),
        wdrs_event_id = $Event_ID,
        wdrs_external_id = $99_ExternalID,
        wdrs_product_code = $product_code,
        mif_id = $htmlFilename
    </sql>
  </statement>
</config>

```

**Configuration File: eCR DB Write MIF.xml**

```

WHERE
patient_id_authority=$patient_id_authority and
patient_id=$patient_id and
doc_id_root=$doc_id_root and
doc_id_extension=$doc_id_extension and
rr_condition_code=$conditionCode</sql>
</statement>
</config>
```

**Destinations**

| Name                           | Page                               |
|--------------------------------|------------------------------------|
| Update MIF Status Publish..... | Dynamic Router <a href="#">155</a> |

**Split Message**

Filter

**No-operation**

On ECR\_3\_XML To MIF route

**Destinations**

| Name                          | Page                                |
|-------------------------------|-------------------------------------|
| eCR DB Update ExternalID..... | Database LookUp <a href="#">135</a> |

**eCR DB Update ExternalID**

Filter

**Database LookUp**

On ECR\_3\_XML To MIF route

**Configuration Properties**

|                         |                              |
|-------------------------|------------------------------|
| Maximum Concurrency     | 0                            |
| Database                | Manual setting               |
| Configuration File      | eCR DB Update ExternalID.xml |
| Message Type            | Plain text                   |
| Definition              |                              |
| Query Timeout           |                              |
| Deadlock Retry Attempts | 5                            |
| Deadlock Retry Delay    | 100                          |
| Socket Timeout          | 0                            |

**Configuration File: eCR DB Update ExternalID.xml**

```

<config xmlns:ide="http://www.orionhealth.com/Rhapsody/IDE" xmlns:user="http://www.orionhealth
.com/Rhapsody/IDE/UserData" version="6" ide:version="6.9.1.78122" ide:idcCompatibleVersion
="3.0" ide:connectionName="eICR database">
<driver>net.sourceforge.jtds.jdbc.Driver</driver>
<url>${dbConn_eICR}</url>
<username />
<password />
<binaryEncoding>base64</binaryEncoding>
```

**Configuration File: eCR DB Update ExternalID.xml**

```

<statement name="New Statement" ide:type="executeSql" ide:allowCompoundStatements="true">
  <sql>UPDATE [eICR].[dbo].[eCR_PatientTemporal]

  SET
    wdrs_external_id = $99_ExternalID,
    wdrs_external_id_updated_date = GETDATE()

  WHERE
    patient_id=$patient_id and
    patient_id_authority=$patient_id_authority</sql>
  </statement>
</config>
```

**Destinations**

| Name                    | Page                           |
|-------------------------|--------------------------------|
| 👉 JavaScript - ECR..... | JavaScript <a href="#">126</a> |
| 👉 JavaScript - RR.....  | JavaScript <a href="#">128</a> |

 **Get Geocoded County**

Filter

**JavaScript**

On ECR\_3\_XML To MIF route

**Javascript**

```

// Create the output message
var next = output.append(input[0]);

//Get county from the geocode output
var geocode_output = input[0];
var county = geocode_output.getField("/GetgeocodedaddressResponse/GetgeocodedaddressResult/ac
_county")

// If the county is available set property
if(county)
  next.setProperty("GeocodedCounty",county);
```

**Destinations**

| Name                 | Page                              |
|----------------------|-----------------------------------|
| 👉 Snapshot Load..... | Snapshot Load <a href="#">134</a> |

 **js\_EcrToMif**

Filter

**JavaScript**

On ECR\_3\_XML To MIF route

**Notes**

Author: TH

**Notes**

Desc: Uses Javascript shared library to parse through RR.xml file and set appropriate party definition and contact definition field in MIF format. Attaches the eICR.html as an attachment. This filter uses a message collector to merge the files.

**Support Notes**

Caused by: org.mozilla.javascript.EcmaError: TypeError: Cannot call method "getProperty" of undefined  
(Set\_HtmlAttachmentDefinition#1)

Check the Message Events for a message collector time-out; sent to FILTER message on js\_RckmsToMif filter.

Query the archive database using the reporting:data\_source and reporting:date\_source\_id values.

SELECT \* from archive.message

where data\_source = 'PHINMS'

and data\_source\_id = 'abc123';

3. If the database does not show both a RR.xml and eICR.html message\_type, open and issue in daily reporting that the .html files were not included in the zip file from APHL and supply the above query.

**Javascript**

```
// Create output message
var next = output.append(input[0]);

// Get each of the input messages needed to create MIF
var eicr_xml = input[0];
var eicr_html = input[1];
var rr_html = input[2];

// Grab properties needed to populate the html file name on the MIF
var lastName = eicr_xml.getField("/ClinicalDocument/recordTarget[1]/patientRole/patient/name[1]/family")
var firstName = eicr_xml.getField("/ClinicalDocument/recordTarget[1]/patientRole/patient/name[1]/given[1]")
var dob = eicr_xml.getField("/ClinicalDocument/recordTarget[1]/patientRole/patient/birthTime/@value")
var effectiveTime = eicr_xml.getField("/ClinicalDocument/effectiveTime/@value").split(' ')
[0]; // Date is 20211130120611-0800. Parse to 20211130120611
var version = eicr_xml.getField("/ClinicalDocument/versionNumber/@value")
var county = eicr_xml.getField("/ClinicalDocument/recordTarget[1]/patientRole/addr[1]/county")
var externalID = ''
if(next.getProperty("99_ExternalID")){
    externalID = next.getProperty("99_ExternalID");

var productCode = next.getProperty("product_code");
var eventID = next.getProperty("99_eventid1");

var ECR RECEIVED_DATE = eicr_xml.getField("/ClinicalDocument/effectiveTime/@value")
var ECR_EXTERNAL_ID = externalID;
var ECR_PATIENT_ID = eicr_xml.getField("/ClinicalDocument/recordTarget[1]/patientRole/id/@extension")
var ECR_PATIENT_FIRST_NAME = firstName;
var ECR_PATIENT_MIDDLE_NAME = eicr_xml.getField("/ClinicalDocument/recordTarget[1]/patientRole/patient/name[1]/given[2]")
var ECR_PATIENT_LAST_NAME = lastName;
var ECR_DEATH_DATE = eicr_xml.getField("/ClinicalDocument/recordTarget[1]/patientRole/patient/deceasedTime/@value")
var ECR_BIRTH_DATE = dob
var ECR_PATIENT_AGE = calcAge(dob)
var ECR_ADMIN_GENDER = eicr_xml.getField("/ClinicalDocument/recordTarget[1]/patientRole/patient/administrativeGenderCode/@displayName")
```

**Javascript**

```

var ECR_SEX_AT_BIRTH = eicr_xml.getField("/ClinicalDocument/component/structuredBody/component[section[templateId/@root='2.16.840.1.113883.10.20.22.2.17']/entry[observation/templateId/@root='2.16.840.1.113883.10.20.22.4.200']]//section[entry/observation/templateId/@root='2.16.840.1.113883.10.20.22.4.200']/entry[observation/templateId/@root='2.16.840.1.113883.10.20.22.4.200']/observation/value/@displayName");
var ECR_GENDER_IDENTITY = eicr_xml.getField("//observation/templateId/@root='2.16.840.1.113883.10.20.34.3.45']/value/@displayName")

// Grabe the race(s)
var ECR_RACE = "";
var sbohRace = next.getProperty("SbohRaceLanguageResponse");
// Parse JSON
var obj = JSON.parse(sbohRace);
var i = 0;
if(obj){
    while(obj.races[i]){
        if(obj.races[i].description != "null")
            ECR_RACE += obj.races[i].description + ",";
        else
            ECR_RACE += obj.races[i].conceptCode + ",";
        i++;
    }
}
// Remove trailing comma
if(ECR_RACE)
    ECR_RACE = ECR_RACE.substring(0,ECR_RACE.length-1)

var ECR_ETHNICITY = eicr_xml.getField("/ClinicalDocument/recordTarget[1]/patientRole/patient/ethnicGroupCode/@displayName")
var ECR_PREFERRED_LANGUAGE = eicr_xml.getField("/ClinicalDocument/recordTarget[1]/patientRole/patient/languageCommunication[preferenceInd[@value='true']][1]/languageCode/@code")

if(!ECR_PREFERRED_LANGUAGE){
    ECR_PREFERRED_LANGUAGE = eicr_xml.getField("/ClinicalDocument/recordTarget[1]/patientRole/patient/languageCommunication[1]/languageCode/@code")
}

var ECR_MARITAL_STATUS = eicr_xml.getField("/ClinicalDocument/recordTarget[1]/patientRole/patient/maritalStatusCode/@displayName")
//var ECR_RELIGION = next.getProperty("ReligionDescription");//eicr_xml.getField("/ClinicalDocument/recordTarget[1]/patientRole/patient/religiousAffiliationCode/@displayName")
var ECR_PATIENT_HOME_NUMBER = Translate_Phone(eicr_xml.getField("/ClinicalDocument/recordTarget[1]/patientRole/telecom[@use='HP'][1]/@value"))
var ECR_PATIENT_CELL_NUMBER = Translate_Phone(eicr_xml.getField("/ClinicalDocument/recordTarget[1]/patientRole/telecom[@use='MC'][1]/@value"))
var ECR_PATIENT_EMAIL = Parse_Email(eicr_xml.getField("/ClinicalDocument/recordTarget[1]/patientRole/telecom/@value"))
var ECR_ADDRESS_TYPE = eicr_xml.getField("/ClinicalDocument/recordTarget[1]/patientRole/addr[1]/@use")
var ECR_ADDRESS_ONE = eicr_xml.getField("/ClinicalDocument/recordTarget[1]/patientRole/addr[1]/streetAddressLine[1]")
var ECR_ADDRESS_TWO = eicr_xml.getField("/ClinicalDocument/recordTarget[1]/patientRole/addr[1]/streetAddressLine[2]")
var ECR_PATIENT_CITY = eicr_xml.getField("/ClinicalDocument/recordTarget[1]/patientRole/addr[1]/city")
var ECR_PATIENT_STATE = eicr_xml.getField("/ClinicalDocument/recordTarget[1]/patientRole/addr[1]/state")

```

**Javascript**

```

var ECR_PATIENT_POSTAL = eicr_xml.getField("/ClinicalDocument/recordTarget[1]/patientRole/addr[1]/postalCode")
var ECR_PATIENT_COUNTY = county;

// Patient Emergency Contact

// Removed per Claudette 4/12/2023
//var ECR_EMERGENCY_CONTACT_TYPE = eicr_xml.getField("/ClinicalDocument/participant[@typeCode='IND']/associatedEntity[@classCode='ECON'][1]/@classCode")

var ECR_EMERGENCY_CONTACT_LNAME = eicr_xml.getField("/ClinicalDocument/participant[@typeCode='IND']/associatedEntity[@classCode='ECON'][1]/associatedPerson/name/family")
var ECR_EMERGENCY_CONTACT_FNAME = eicr_xml.getField("/ClinicalDocument/participant[@typeCode='IND']/associatedEntity[@classCode='ECON'][1]/associatedPerson/name/given[1]")
var ECR_EMERGENCY_CONTACT_NAME = null

if(ECR_EMERGENCY_CONTACT_LNAME && ECR_EMERGENCY_CONTACT_FNAME)
    ECR_EMERGENCY_CONTACT_NAME = ECR_EMERGENCY_CONTACT_LNAME + ", " + ECR_EMERGENCY_CONTACT_FNAME

var ECR_EMERGENCY_CONTACT_PHONE = Translate_Phone(eicr_xml.getField("/ClinicalDocument/participant[@typeCode='IND']/associatedEntity[@classCode='ECON'][1]/telecom[substring(@value, 1, 4)= 'tel:'][1]/@value"))
var ECR_EMERGENCY_CONTACT_EMAIL = eicr_xml.getField("/ClinicalDocument/participant[@typeCode='IND']/associatedEntity[@classCode='ECON'][1]/telecom[substring(@value, 1, 7)= 'mailto:'][1]/@value")

// Encounter Facility Information
var ECR_FACILITY_NAME = eicr_xml.getField("/ClinicalDocument/componentOf/encompassingEncounter/location/healthCareFacility/serviceProviderOrganization/name")
var ECR_FACILITY_ID = eicr_xml.getField("/ClinicalDocument/componentOf/encompassingEncounter/location/healthCareFacility/id/@root") + ", " + eicr_xml.getField("/ClinicalDocument/componentOf/encompassingEncounter/location/healthCareFacility/id/@extension")
var ECR_FACILITY_TYPE = eicr_xml.getField("/ClinicalDocument/componentOf/encompassingEncounter/location/healthCareFacility/code/@displayName")
var ECR_FACILITY_PHONE = Translate_Phone(eicr_xml.getField("/ClinicalDocument/componentOf/encompassingEncounter/location/healthCareFacility/serviceProviderOrganization/telecom[contains(@value,'tel')]/@value"))
var ECR_FACILITY_FAX = Translate_Fax(eicr_xml.getField("/ClinicalDocument/componentOf/encompassingEncounter/location/healthCareFacility/serviceProviderOrganization/telecom[contains(@value,'fax')]/@value"))
var ECR_FACILITY_EMAIL = eicr_xml.getField("/ClinicalDocument/componentOf/encompassingEncounter/location/healthCareFacility/serviceProviderOrganization/telecom[contains(@value,'mailto')]/@value")
var ECR_FACILITY_ADDRESS_ONE = eicr_xml.getField("/ClinicalDocument/componentOf/encompassingEncounter/location/healthCareFacility/serviceProviderOrganization/addr[1]/streetAddressLine[1]")
var ECR_FACILITY_ADDRESS_TWO = eicr_xml.getField("/ClinicalDocument/componentOf/encompassingEncounter/location/healthCareFacility/serviceProviderOrganization/addr[1]/streetAddressLine[2]")
var ECR_FACILITY_CITY = eicr_xml.getField("/ClinicalDocument/componentOf/encompassingEncounter/location/healthCareFacility/serviceProviderOrganization/addr[1]/city")
var ECR_FACILITY_COUNTY = eicr_xml.getField("/ClinicalDocument/componentOf/encompassingEncounter/location/healthCareFacility/serviceProviderOrganization/addr[1]/county")
var ECR_FACILITY_STATE = eicr_xml.getField("/ClinicalDocument/componentOf/encompassingEncounter/location/healthCareFacility/serviceProviderOrganization/addr[1]/state")
var ECR_FACILITY_POSTAL = eicr_xml.getField("/ClinicalDocument/componentOf/encompassingEncounter/location/healthCareFacility/serviceProviderOrganization/addr[1]/postalCode")

```

**Javascript**

```

// Provider Facility Information
var ECR_PROVIDER_FACILITY_NAME = eicr_xml.getField("/ClinicalDocument/componentOf/encompassingEncounter/responsibleParty/assignedEntity/representedOrganization/name")
var ECR_PROVIDER_FACILITY_ADDRESS_ONE = eicr_xml.getField("/ClinicalDocument/componentOf/enccompassingEncounter/responsibleParty/assignedEntity/representedOrganization/addr[1]/streetAddressLine[1]")
var ECR_PROVIDER_FACILITY_ADDRESS_TWO = eicr_xml.getField("/ClinicalDocument/componentOf/enccompassingEncounter/responsibleParty/assignedEntity/representedOrganization/addr[1]/streetAddressLine[2]")
var ECR_PROVIDER_FACILITY_CITY = eicr_xml.getField("/ClinicalDocument/componentOf/encompassingEncounter/responsibleParty/assignedEntity/representedOrganization/addr[1]/city")
var ECR_PROVIDER_FACILITY_COUNTY = eicr_xml.getField("/ClinicalDocument/componentOf/encompassingEncounter/responsibleParty/assignedEntity/representedOrganization/addr[1]/county")
var ECR_PROVIDER_FACILITY_STATE = eicr_xml.getField("/ClinicalDocument/componentOf/encompassingEncounter/responsibleParty/assignedEntity/representedOrganization/addr[1]/state")
var ECR_PROVIDER_FACILITY_POSTAL = eicr_xml.getField("/ClinicalDocument/componentOf/encompassingEncounter/responsibleParty/assignedEntity/representedOrganization/addr[1]/postalCode")

// Provider Information
var ECR_PROVIDER_ID = eicr_xml.getField("/ClinicalDocument/componentOf/encompassingEncounter/responsibleParty/assignedEntity/id/@root") + " " + eicr_xml.getField("/ClinicalDocument/componentOf/encompassingEncounter/responsibleParty/assignedEntity/id/@extension")
var ECR_PROVIDER_NAME = null
var ECR_PROVIDER_LAST_NAME = eicr_xml.getField("/ClinicalDocument/componentOf/encompassingEncounter/responsibleParty/assignedEntity/assignedPerson/name/family")
var ECR_PROVIDER_FIRST_NAME = eicr_xml.getField("/ClinicalDocument/componentOf/encompassingEncounter/responsibleParty/assignedEntity/assignedPerson/name/given[1]")

if(ECR_PROVIDER_LAST_NAME && ECR_PROVIDER_FIRST_NAME){
    ECR_PROVIDER_NAME = ECR_PROVIDER_LAST_NAME + ", " + ECR_PROVIDER_FIRST_NAME
}

var ECR_PROVIDER_PHONE = Translate_Phone(eicr_xml.getField("/ClinicalDocument/componentOf/encompassingEncounter/responsibleParty/assignedEntity/telecom[contains(@value,'tel')]/@value"))
var ECR_PROVIDER_FAX = Translate_Fax(eicr_xml.getField("/ClinicalDocument/componentOf/enccompassingEncounter/responsibleParty/assignedEntity/telecom[contains(@value,'fax')]/@value"))
var ECR_PROVIDER_EMAIL = Parse_Email(eicr_xml.getField("/ClinicalDocument/componentOf/enccompassingEncounter/responsibleParty/assignedEntity/telecom[contains(@value,'mailto')]/@value"))
var ECR_PROVIDER_ADDRESS_ONE = eicr_xml.getField("/ClinicalDocument/componentOf/encompassingEncounter/responsibleParty/assignedEntity/addr/streetAddressLine[1]")
var ECR_PROVIDER_ADDRESS_TWO = eicr_xml.getField("/ClinicalDocument/componentOf/encompassingEncounter/responsibleParty/assignedEntity/addr/streetAddressLine[2]")
var ECR_PROVIDER_CITY = eicr_xml.getField("/ClinicalDocument/componentOf/encompassingEncounter/responsibleParty/assignedEntity/addr/city")
var ECR_PROVIDER_COUNTY = eicr_xml.getField("/ClinicalDocument/componentOf/encompassingEncounter/responsibleParty/assignedEntity/addr/count")
var ECR_PROVIDER_STATE = eicr_xml.getField("/ClinicalDocument/componentOf/encompassingEncounter/responsibleParty/assignedEntity/addr/state")
var ECR_PROVIDER_POSTAL = eicr_xml.getField("/ClinicalDocument/componentOf/encompassingEncounter/responsibleParty/assignedEntity/addr/postalCode")

// Encounter Detail
var ECR_ENCOUNTER_TYPE = eicr_xml.getField("/ClinicalDocument/componentOf/enccompassingEncounter/code/@displayName")
var ECR_ENCOUNTER_DATE = eicr_xml.getField("/ClinicalDocument/componentOf/enccompassingEncounter/effectiveTime/low/@value")
var ECR_ENCOUNTER_ADMIT_DATE = eicr_xml.getField("/ClinicalDocument/componentOf/encompassingEncounter[code/@code='IMP']/effectiveTime/low/@value")

```

**Javascript**

```

var ECR_ENCOUNTER_DISCHARGE_DATE = eicr_xml.getField("/ClinicalDocument/componentOf/encompassingEncounter[code/@code='IMP']/effectiveTime/high/@value")

// Parent/Guardian Contact
var ECR_GUARDIAN_TYPE      = eicr_xml.getField("/ClinicalDocument/recordTarget/patientRole/patient/guardian/code/@displayName")
var ECR_GUARDIAN_LAST_NAME   = eicr_xml.getField("/ClinicalDocument/recordTarget/patientRole/patient/guardian/guardianPerson/name/family")
var ECR_GUARDIAN_FIRST_NAME  = eicr_xml.getField("/ClinicalDocument/recordTarget/patientRole/patient/guardian/guardianPerson/name/given")
var ECR_GUARDIAN_NAME       = null

if(ECR_GUARDIAN_LAST_NAME && ECR_GUARDIAN_FIRST_NAME){
  ECR_GUARDIAN_NAME = ECR_GUARDIAN_LAST_NAME + ", " + ECR_GUARDIAN_FIRST_NAME
}

var ECR_GUARDIAN_PHONE      = Translate_Phone(eicr_xml.getField("/ClinicalDocument/recordTarget/patientRole/patient/guardian/telecom[contains(@value,'tel')]/@value"))
var ECR_GUARDIAN_EMAIL       = Parse_Email(eicr_xml.getField("/ClinicalDocument/recordTarget/patientRole/patient/guardian/telecom[contains(@value,'mailto')]/@value"))

var ECR_PREGNANT    = ""
var ECR_EMPLOYED    = ""

var ECR_REPORT_RULE     = next.getProperty("RR_DisplayName");

if(next.getProperty("RR_Determination")){
  var rrDetermination = next.getProperty("RR_Determination").split("|");
  for(i = 0; i < rrDetermination.length; i++){
    if(rrDetermination[i])
      ECR_REPORT_RULE += " ;" + rrDetermination[i]
  }
}

var htmlfilename = lastName + "_" + firstName + "_" + dob + "_" + version + "_" + effectiveTime;
next.setProperty("htmlFilename",htmlfilename);

// Base 64 encode the ECR and RR htmls
var HtmlAttachmentDefinition = Set_HtmlAttachmentDefinition(eicr_html,htmlfilename + "_eICR.html");
var HtmlAttachmentDefinitionRR = Set_HtmlAttachmentDefinition(rr_html,htmlfilename + "_RR.html");

// Build MIF by adding each component needed
var ParticipantDefinition = <ParticipantDefinition></ParticipantDefinition>

if (HtmlAttachmentDefinition) {
  ParticipantDefinition.appendChild(HtmlAttachmentDefinition);
}
// Remove RR per Claudette 1/31/2023
if (HtmlAttachmentDefinitionRR) {
  //ParticipantDefinition.appendChild(HtmlAttachmentDefinitionRR);
}

// Populate party definition attributes to create an event in OB.
var PartyDefinition;
var partyDefEcrDeathDate;

```

**Javascript**

```

if(ECR_DEATH_DATE){
    partyDefEcrDeathDate = "Dead";
}
else{
    partyDefEcrDeathDate = "Alive";
}

if((getVariable("ENV") == "OB" || getVariable("eICR_dataEnv") == "OB") && !externalID){
    ECR_BIRTH_DATE = ECR_BIRTH_DATE.substring(0,4) + "-" + ECR_BIRTH_DATE.substring(4,6) + "-" +
    ECR_BIRTH_DATE.substring(6,8);
    if(ECR_ADMIN_GENDER)
        PartyDefinition = <PartyDefinition BirthDate={ECR_BIRTH_DATE} FirstName={ECR_PATIENT_FIRST_NAME} MiddleName='ecr' Gender={ECR_ADMIN_GENDER} LastName={ECR_PATIENT_LAST_NAME} Deidentified='false' LivingStatus={partyDefEcrDeathDate} ReferenceCategory='-1' Type='Case Party' Category='Person' ExternalID=''></PartyDefinition>;
    else
        PartyDefinition = <PartyDefinition BirthDate={ECR_BIRTH_DATE} FirstName={ECR_PATIENT_FIRST_NAME} MiddleName='ecr' LastName={ECR_PATIENT_LAST_NAME} Deidentified='false' LivingStatus={partyDefEcrDeathDate} ReferenceCategory='-1' Type='Case Party' Category='Person' ExternalID=''></PartyDefinition>;
    }
else{
    PartyDefinition = <PartyDefinition Category='Person' Deidentified='false' FirstName=' ' LastName=' ' ReferenceCategory='-1' Type='Case Party' ExternalID={externalID}></PartyDefinition>;
}

ParticipantDefinition.appendChild(PartyDefinition);

// Add QP, RiskDataDefinition
AddEcrQuestion(ParticipantDefinition, "ECR RECEIVED DATE", ECR RECEIVED DATE);

AddEcrQuestion(ParticipantDefinition, "ECR_ATTACHMENT_ID", htmlfilename + "_eICR.html");
// Remove per Claudette 7/18
//AddEcrQuestion(ParticipantDefinition, "ECR_RR_ATTACHMENT_ID", htmlfilename + "_RR.html");
AddEcrQuestion(ParticipantDefinition, "ECR_EXTERNAL_ID", ECR_EXTERNAL_ID);
AddEcrQuestion(ParticipantDefinition, "ECR_PATIENT_ID", ECR_PATIENT_ID);
AddEcrQuestion(ParticipantDefinition, "ECR_PATIENT_FIRST_NAME", ECR_PATIENT_FIRST_NAME);
AddEcrQuestion(ParticipantDefinition, "ECR_PATIENT_MIDDLE_NAME", ECR_PATIENT_MIDDLE_NAME);
AddEcrQuestion(ParticipantDefinition, "ECR_PATIENT_LAST_NAME", ECR_PATIENT_LAST_NAME);
AddEcrQuestion(ParticipantDefinition, "ECR_DEATH_DATE", ECR_DEATH_DATE);
AddEcrQuestion(ParticipantDefinition, "ECR_BIRTH_DATE", ECR_BIRTH_DATE);
AddEcrQuestion(ParticipantDefinition, "ECR_PATIENT_AGE", ECR_PATIENT_AGE);

// Only send to WDRS if present
if(ECR_ADMIN_GENDER)
    AddEcrQuestion(ParticipantDefinition, "ECR_ADMIN_GENDER", ECR_ADMIN_GENDER);
    AddEcrQuestion(ParticipantDefinition, "ECR_SEX_AT_BIRTH", ECR_SEX_AT_BIRTH);
    AddEcrQuestion(ParticipantDefinition, "ECR_GENDER_IDENTITY", ECR_GENDER_IDENTITY);
    AddEcrQuestion(ParticipantDefinition, "ECR_RACE", ECR_RACE);
    AddEcrQuestion(ParticipantDefinition, "ECR_ETHNICITY", ECR_ETHNICITY);
    AddEcrQuestion(ParticipantDefinition, "ECR_PREFERRED_LANGUAGE", ECR_PREFERRED_LANGUAGE);
    AddEcrQuestion(ParticipantDefinition, "ECR_MARITAL_STATUS", ECR_MARITAL_STATUS);
    AddEcrQuestion(ParticipantDefinition, "ECR_PATIENT_HOME_NUMBER", ECR_PATIENT_HOME_NUMBER);
    AddEcrQuestion(ParticipantDefinition, "ECR_PATIENT_CELL_NUMBER", ECR_PATIENT_CELL_NUMBER);
    AddEcrQuestion(ParticipantDefinition, "ECR_PATIENT_EMAIL", ECR_PATIENT_EMAIL);
    AddEcrQuestion(ParticipantDefinition, "ECR_ADDRESS_TYPE", ECR_ADDRESS_TYPE);
    AddEcrQuestion(ParticipantDefinition, "ECR_ADDRESS_ONE", ECR_ADDRESS_ONE);
    AddEcrQuestion(ParticipantDefinition, "ECR_ADDRESS_TWO", ECR_ADDRESS_TWO);
    AddEcrQuestion(ParticipantDefinition, "ECR_PATIENT_CITY", ECR_PATIENT_CITY);

```

**Javascript**

```

AddEcrQuestion(ParticipantDefinition, "ECR_PATIENT_STATE", ECR_PATIENT_STATE);
AddEcrQuestion(ParticipantDefinition, "ECR_PATIENT_POSTAL", ECR_PATIENT_POSTAL);
AddEcrQuestion(ParticipantDefinition, "ECR_PATIENT_COUNTY", ECR_PATIENT_COUNTY);
//AddEcrQuestion(ParticipantDefinition, "ECR_RELIGION", ECR_RELIGION);
AddEcrQuestion(ParticipantDefinition, "ECR_PREGNANT", ECR_PREGNANT);
AddEcrQuestion(ParticipantDefinition, "ECR_EMPLOYED", ECR_EMPLOYED);

// Patient Emergency Contact
// Removed per Claudette 4/12/2023
//AddEcrQuestion(ParticipantDefinition, "ECR_EMERGENCY_CONTACT_TYPE", ECR_EMERGENCY_CONTACT_TYPE)
AddEcrQuestion(ParticipantDefinition, "ECR_EMERGENCY_CONTACT_NAME", ECR_EMERGENCY_CONTACT_NAME)
AddEcrQuestion(ParticipantDefinition, "ECR_EMERGENCY_CONTACT_PHONE", ECR_EMERGENCY_CONTACT_PHONE)
AddEcrQuestion(ParticipantDefinition, "ECR_EMERGENCY_CONTACT_EMAIL", ECR_EMERGENCY_CONTACT_EMAIL)

// Encounter Facility Information
AddEcrQuestion(ParticipantDefinition, "ECR_FACILITY_NAME", ECR_FACILITY_NAME)
AddEcrQuestion(ParticipantDefinition, "ECR_FACILITY_ID", ECR_FACILITY_ID)
AddEcrQuestion(ParticipantDefinition, "ECR_FACILITY_TYPE", ECR_FACILITY_TYPE)
AddEcrQuestion(ParticipantDefinition, "ECR_FACILITY_PHONE", ECR_FACILITY_PHONE)
AddEcrQuestion(ParticipantDefinition, "ECR_FACILITY_FAX", ECR_FACILITY_FAX)
AddEcrQuestion(ParticipantDefinition, "ECR_FACILITY_EMAIL", ECR_FACILITY_EMAIL)
AddEcrQuestion(ParticipantDefinition, "ECR_FACILITY_ADDRESS_ONE", ECR_FACILITY_ADDRESS_ONE)
AddEcrQuestion(ParticipantDefinition, "ECR_FACILITY_ADDRESS_TWO", ECR_FACILITY_ADDRESS_TWO)
AddEcrQuestion(ParticipantDefinition, "ECR_FACILITY_CITY", ECR_FACILITY_CITY)
AddEcrQuestion(ParticipantDefinition, "ECR_FACILITY_COUNTY", ECR_FACILITY_COUNTY)
AddEcrQuestion(ParticipantDefinition, "ECR_FACILITY_STATE", ECR_FACILITY_STATE)
AddEcrQuestion(ParticipantDefinition, "ECR_FACILITY_POSTAL", ECR_FACILITY_POSTAL)

// Provider Facility Information
AddEcrQuestion(ParticipantDefinition, "ECR_PROVIDER_FACILITY_NAME", ECR_PROVIDER_FACILITY_NAME)
AddEcrQuestion(ParticipantDefinition, "ECR_PROVIDER_FACILITY_ADDRESS_ONE", ECR_PROVIDER_FACILITY_ADDRESS_ONE)
AddEcrQuestion(ParticipantDefinition, "ECR_PROVIDER_FACILITY_ADDRESS_TWO", ECR_PROVIDER_FACILITY_ADDRESS_TWO)
AddEcrQuestion(ParticipantDefinition, "ECR_PROVIDER_FACILITY_CITY", ECR_PROVIDER_FACILITY_CITY)
AddEcrQuestion(ParticipantDefinition, "ECR_PROVIDER_FACILITY_COUNTY", ECR_PROVIDER_FACILITY_COUNTY)
AddEcrQuestion(ParticipantDefinition, "ECR_PROVIDER_FACILITY_STATE", ECR_PROVIDER_FACILITY_STATE)
AddEcrQuestion(ParticipantDefinition, "ECR_PROVIDER_FACILITY_POSTAL", ECR_PROVIDER_FACILITY_POSTAL)

// Provider Information
AddEcrQuestion(ParticipantDefinition, "ECR_PROVIDER_ID", ECR_PROVIDER_ID)
AddEcrQuestion(ParticipantDefinition, "ECR_PROVIDER_NAME", ECR_PROVIDER_NAME)
AddEcrQuestion(ParticipantDefinition, "ECR_PROVIDER_PHONE", ECR_PROVIDER_PHONE)
AddEcrQuestion(ParticipantDefinition, "ECR_PROVIDER_FAX", ECR_PROVIDER_FAX)
AddEcrQuestion(ParticipantDefinition, "ECR_PROVIDER_EMAIL", ECR_PROVIDER_EMAIL)

AddEcrQuestion(ParticipantDefinition, "ECR_PROVIDER_ADDRESS_ONE", ECR_PROVIDER_ADDRESS_ONE)
AddEcrQuestion(ParticipantDefinition, "ECR_PROVIDER_ADDRESS_TWO", ECR_PROVIDER_ADDRESS_TWO)
AddEcrQuestion(ParticipantDefinition, "ECR_PROVIDER_CITY", ECR_PROVIDER_CITY)
AddEcrQuestion(ParticipantDefinition, "ECR_PROVIDER_COUNTY", ECR_PROVIDER_COUNTY)
AddEcrQuestion(ParticipantDefinition, "ECR_PROVIDER_STATE", ECR_PROVIDER_STATE)
AddEcrQuestion(ParticipantDefinition, "ECR_PROVIDER_POSTAL", ECR_PROVIDER_POSTAL)

```

**Javascript**

```

//Encounter Details
AddEcrQuestion(ParticipantDefinition, "ECR_ENCOUNTER_TYPE", ECR_ENCOUNTER_TYPE)
AddEcrQuestion(ParticipantDefinition, "ECR_ENCOUNTER_DATE", ECR_ENCOUNTER_DATE)
AddEcrQuestion(ParticipantDefinition, "ECR_ENCOUNTER_ADMIT_DATE", ECR_ENCOUNTER_ADMIT_DATE)
AddEcrQuestion(ParticipantDefinition, "ECR_ENCOUNTER_DISCHARGE_DATE", ECR_ENCOUNTER_DISCHARGE_DATE)

// Guardian
AddEcrQuestion(ParticipantDefinition, "ECR_GUARDIAN_TYPE", ECR_GUARDIAN_TYPE)
AddEcrQuestion(ParticipantDefinition, "ECR_GUARDIAN_NAME", ECR_GUARDIAN_NAME)
AddEcrQuestion(ParticipantDefinition, "ECR_GUARDIAN_PHONE", ECR_GUARDIAN_PHONE)
AddEcrQuestion(ParticipantDefinition, "ECR_GUARDIAN_EMAIL", ECR_GUARDIAN_EMAIL)

// RR Details
AddEcrQuestion(ParticipantDefinition, "ECR_REPORT_RULE", ECR_REPORT_RULE)

var caseid = next.getProperty("caseid");

var CaseDefinition;

/* Remove caseid
if(caseid){
    CaseDefinition = <CaseDefinition ProductCode ={productCode} CaseID={caseid}>{Participant
Definition}</CaseDefinition>;
}
else{
    CaseDefinition = <CaseDefinition ProductCode ={productCode}>{ParticipantDefinition}</CaseDefi
nation>;
}
*/
if(eventID){
    CaseDefinition = <CaseDefinition ProductCode ={productCode} CaseID={eventID}>{ParticipantDefi
nition}</CaseDefinition>;
}else{
    CaseDefinition = <CaseDefinition ProductCode ={productCode} CaseID=' '>{ParticipantDefinition
}</CaseDefinition>;
}

var env = < MavenIntegrationFormat >{CaseDefinition}</ MavenIntegrationFormat >;

// Add MIF to outout message
next.xml = env;

// Create file name
dateFormat = new java.text.SimpleDateFormat("yyyyMMddHHmmss");
date = new Date();

next.setProperty("BaseFilename", "/eCR/Mif_out/" + next.getProperty("recordNumber")+"_"+next.get
Property("doc_id_root")+"_"+next.getProperty("doc_id_extension")+"_"+dateFormat.format(date));
next.setProperty("Suffix", "xml");

next.setProperty("ecrMifStatus", "Sent to outbound directory");

// Function to base 64 encode an html payload.
function Set_HtmlAttachmentDefinition (eicr_html, htmlfilename) {

```

**Javascript**

```

var htmlBase64 = encodeBase64(eicr_html .text);
if (htmlBase64.length < 15340032) {
  return <AttachmentDefinition Name={htmlfilename} Status='Approved' Type='Other' SecurityLevel
="4" Description='HTML' Compressed='false' Content={htmlBase64}></AttachmentDefinition>;
}else{
  return <AttachmentDefinition Name={htmlfilename} Status='Approved' Type='Other' SecurityLevel
="4" Description='HTML - attachment too large' Compressed='false' Content=' '></AttachmentDefinition>;
}
}

function AddEcrQuestion (ParticipantDefinition, question, value) {
  if(value){
    ParticipantDefinition.appendChild(<RiskDataDefinition Iteration='0' QuestionID={question}
Value={value}></RiskDataDefinition>);
  }
  // Send NULL QP values if no incomin value per Lorenzo 4/20/23
  else{
    ParticipantDefinition.appendChild(<RiskDataDefinition Iteration='0' QuestionID={question}
Value='NULL'></RiskDataDefinition>);
  }
}

function calcAge(dateString) {

  var year = Number(dob.substr(0, 4));
  var month = Number(dob.substr(4, 2)) - 1;
  var day = Number(dob.substr(6, 2));
  var today = new Date();
  var age = today.getFullYear() - year;
  if (today.getMonth() < month || (today.getMonth() == month && today.getDate() < day)) {
    age--;
  }
  return age;
}

function Translate_Email (email) {
  if(email)
  return email.replace(/mailto:/, " ");
  else
  return email;
}

function Translate_Phone (phone) {
  if(phone)
  return phone.replace(/^tel:\+/, " ");
  else
  return phone;
}

function Translate_Fax (fax) {
  if(fax)
  return fax.replace(/^fax:\+/, " ");
  else
  return fax;
}

```

**Javascript**

```

function Parse_Email (field) {
  var result = {};
  var fieldArray = [];

  result.emails = "";
  if(field){ fieldArray = field.split(","); }
  for(var i=0;i<fieldArray.length;++i){
    if(fieldArray[i].match(/^mailto:/)){
      if("") == result.emails){
        result.emails = Translate_Email(fieldArray[i]);
      }else{
        result.emails += ", " + Translate_Email(fieldArray[i]);
      }
    }
  }
  return result.emails;
}

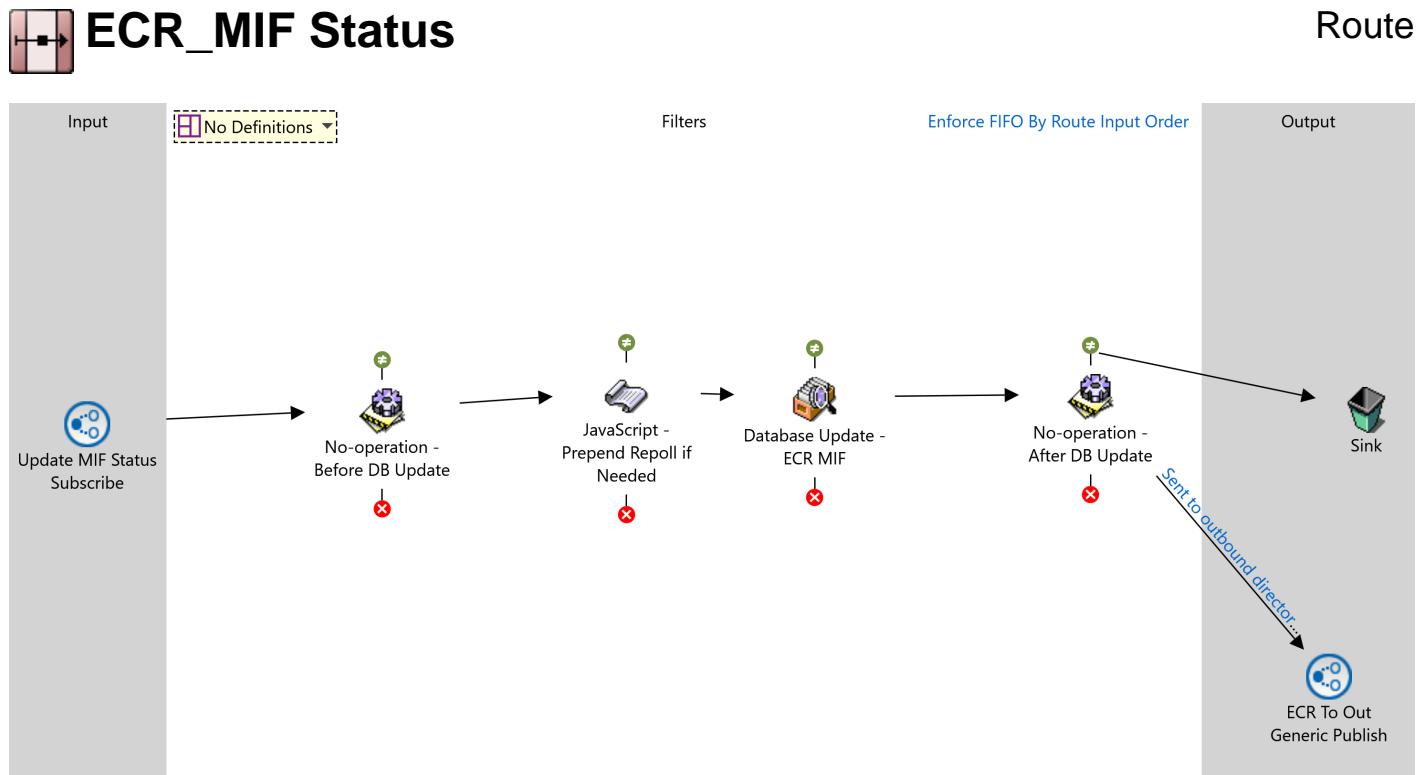
```

**Message Collector: Input Collation**

|                     |   |
|---------------------|---|
| Collection Order    | [ECR_3_XML To MIF/29cb9035-fe54-4a2e-8c44-50d2687dddeb, ECR_3_XML To MIF/019aa804-f2c0-46b4-83d3-eb29c2e0a235, ECR_3_XML To MIF/1f6acffb-45dd-4989-8527-ce5a7d9f9e6a] |
| Match Property      | docID   |
| Message Set Timeout | 3   |
| Timeout Units       | Minutes   |
| Timeout Destination | Process as Usual  |

**Destinations**

| Name                | Page                             |
|---------------------|----------------------------------|
| No-operation 3..... | No-operation <a href="#">126</a> |



### Notes

Author: JK

Desc: This is a shared route which will update the database with the MIF status

| Inputs                             | Page                               |
|------------------------------------|------------------------------------|
| ⌚ Update MIF Status Subscribe..... | Dynamic Router <a href="#">156</a> |
| Outputs                            | Page                               |
| 📦 Sink.....                        | Sink <a href="#">154</a>           |
| ⌚ ECR To Out Generic Publish.....  | Dynamic Router <a href="#">103</a> |

### Filters

| Name   | Page                                |
|--|-------------------------------------|
| ⌚ Database Update - ECR MIF.....                     | Database LookUp <a href="#">148</a> |
| scriptId: JavaScript - Prepend Repoll if Needed..... | JavaScript <a href="#">148</a>      |
| ⌚ No-operation - After DB Update.....                | No-operation <a href="#">148</a>    |
| ⌚ No-operation - Before DB Update.....               | No-operation <a href="#">148</a>    |

### Details

| General                     |   |
|-----------------------------|---|
| Priority                    | Normal                                    |
| Startup State               | Startup Last (only if previously running) |
| FIFO Mode                   | Enforce FIFO By Route Input Order         |
| Stop route on error message | False                                     |

## No-operation - After DB Update

Filter

**No-operation**

On ECR\_MIF Status route

**Destinations**

| Name  | Page                               |
|---|------------------------------------|
| Output Condition: Sent to outbound directory if ready   |                                    |
| ecrMifStatus contains 'Sent to outbound directory'  |                                    |
|  ECR To Out Generic Publish..... | Dynamic Router <a href="#">103</a> |
| Error Connector   | Page                               |
|  Sink.....                       | Sink <a href="#">154</a>           |

## JavaScript - Prepend Repoll if Needed

Filter

**JavaScript**

On ECR\_MIF Status route

| Javascript  |
|---|
| <pre>/* Single input message case */ // Create the output message var next = output.append(input[0]);  if(next.getProperty("repollECR")=="true"){   next.setProperty("ecrMifStatus", "Repoll " + next.getProperty("ecrMifStatus")); }</pre> |

**Destinations**

| Name   | Page                                |
|--|-------------------------------------|
|  Database Update - ECR MIF..... | Database LookUp <a href="#">148</a> |

## No-operation - Before DB Update

Filter

**No-operation**

On ECR\_MIF Status route

**Destinations**

| Name   | Page                           |
|--|--------------------------------|
|  JavaScript - Prepend Repoll if Needed..... | JavaScript <a href="#">148</a> |

## Database Update - ECR MIF

Filter

**Database LookUp**

On ECR\_MIF Status route

| Configuration Properties  |                             |
|---|-----------------------------|
| Maximum Concurrency   | 0                           |
| Database  | Manual setting              |
| Configuration File  | DatabaseUpdateMifStatus.xml |
| Message Type  | Plain text                  |
| Definition  |                             |
| Query Timeout   | 0                           |
| Deadlock Retry Attempts   | 5                           |
| Deadlock Retry Delay  | 100                         |
| Socket Timeout  | 0                           |
| Configuration File: DatabaseUpdateMifStatus.xml   |                             |
| <pre>&lt;config xmlns:ide="http://www.orionhealth.com/Rhapsody/IDE" xmlns:user="http://www.orionhealth.com/Rhapsody/IDE/UserData" version="6" ide:version="6.9.1.78122" ide:idcCompatibleVersion="3.0" ide:connectionName="eICR database"&gt;   &lt;driver&gt;net.sourceforge.jtds.jdbc.Driver&lt;/driver&gt;   &lt;url&gt;\$({dbConn_eICR})&lt;/url&gt;   &lt;username /&gt;   &lt;password /&gt;   &lt;autoCommit /&gt;   &lt;binaryEncoding&gt;base64&lt;/binaryEncoding&gt;   &lt;statement name="New Statement" ide:type="executeSql" ide:allowCompoundStatements="true"&gt;     &lt;sql&gt;UPDATE [eICR].[dbo].[eCR_WDRSTemporal]  SET processing_status = \$ecrMifStatus, UPDATED_BY='ECR MIF Route', UPDATED_DATE=GETDATE()  WHERE patient_id_authority=\$patient_id_authority and patient_id=\$patient_id and doc_id_root=\$doc_id_root and doc_id_extension=\$doc_id_extension and rr_condition_code=\$conditionCode&lt;/sql&gt;   &lt;/statement&gt; &lt;/config&gt;</pre> |                             |

## Destinations

| Name                                | Page                             |
|-------------------------------------|----------------------------------|
| No-operation - After DB Update..... | No-operation <a href="#">148</a> |



# eCRDBRepolITableRead

## Database (Input Mode)

## Communication Point

| Configuration Properties  |                       |
|---|-----------------------|
| Database  | Manual setting        |
| Configuration File  | eCR DB Repoll MIF.xml |
| Query Timeout   | 0                     |
| Socket Timeout  | 0                     |
| Message Body Column   |                       |
| Configuration File: eCR DB Repoll MIF.xml   |                       |
| <pre> &lt;config xmlns:ide="http://www.orionhealth.com/Rhapsody/IDE" xmlns:user="http://www.orionhealth.com/Rhapsody/IDE/UserData" version="6" ide:version="6.9.1.78122" ide:idCompatibleVersion="3.0" ide:connectionName="eICR database"&gt;     &lt;driver&gt;net.sourceforge.jtds.jdbc.Driver&lt;/driver&gt;     &lt;url&gt;\${dbConn_eICR}&lt;/url&gt;     &lt;username /&gt;     &lt;password /&gt;     &lt;refreshRate&gt;3600000&lt;/refreshRate&gt;     &lt;binaryEncoding&gt;base64&lt;/binaryEncoding&gt;     &lt;statement name="SELECT_eCR" ide:type="executeSql" ide:summary="SELECT_eCR" ide:allowCompoundStatements="true"&gt;         &lt;sql&gt;select top 1 ecr.RecordNumber,         ecr.patient_id_authority ,         ecr.patient_id,         ecr.doc_id_root,         ecr.doc_id_extension ,         ecr.patient_first_name,         ecr.patient_middle_name,         ecr.patient_family_name,         ecr.patient_date_of_birth,         ecr.rr_condition_code,         ecr.patient_administrative_gender,         ecr.patient_home_number,         ecr.patient_street_address,         ecr.patient_city,         ecr.patient_state,         ecr.patient_zip_code,         ecr.patient_county,         ecr.patient_country,         ecr.doc_effective_time,         ecr.created_date         FROM         ecr_eCRTemporal ecr         INNER JOIN [eCR_WDRSTemporal] wdrs on wdrs.patient_id_authority = ecr.patient_id_authority and             wdrs.patient_id = ecr.patient_id and             wdrs.doc_id_root = ecr.doc_id_root and             wdrs.doc_id_extension = ecr.doc_id_extension and             wdrs.rr_condition_code = ecr.rr_condition_code         WHERE             ecr.created_date &gt; dateadd(day, 0 - convert (int, \${eCRMIFRepollDays}), GETDATE()) and             &lt;!-- wdrs.processing_status in ('Person not found','Repoll Person not found')--&gt;             (wdrs.processing_status like '%not found%' or wdrs.processing_status like '%too old%')&lt;/sql&gt;     &lt;/statement&gt; &lt;/config&gt;</pre> |                       |

**Configuration File: eCR DB Repoll MIF.xml**

```
<statement name="UPDATE ecr_eCRTemporal" ide:type="executeSql" ide:allowCompoundStatements="true">
    <sql>UPDATE eCR_WDRSTemporal SET Processing_Status = 'Repolling'
WHERE patient_id_authority = @patient_id_authority and
patient_id = @patient_id and
doc_id_root = @doc_id_root and
doc_id_extension = @doc_id_extension and
rr_condition_code = @rr_condition_code</sql>
</statement>
</statement>
</config>
```

| Used on Routes   | Page                      |
|--|---------------------------|
|  ECR_0_Person Lookup..... | Route <a href="#">104</a> |

**Details**

| Retries                     |  |
|-----------------------------|--|
| Retry Type                  | Linear                                     |
| Number of Retries           | 5  |
| Retries before Notification | 5  |
| Retry Delay (ms)            | 5000                                       |
| Properties                  |  |
| Idle Timeout (ms)           | 0  |
| Number of Connections       | 1  |
| Startup State               | Startup First (only if previously running) |
| Input Message Encoding      | Unknown / Not Set                          |



# eCRDBTableRead

## Database (Input Mode)

## Communication Point

| Configuration Properties  |                   |
|---|-------------------|
| Database  | Manual setting    |
| Configuration File  | From_eCRTable.xml |
| Query Timeout   | 0                 |
| Socket Timeout  | 0                 |
| Message Body Column   |                   |
| Configuration File: From_eCRTable.xml   |                   |
| <pre>&lt;config xmlns:ide="http://www.orionhealth.com/Rhapsody/IDE" xmlns:user="http://www.orionhealth.com/Rhapsody/IDE/UserData" version="6" ide:version="6.9.1.78122" ide:idCompatibleVersion="3.0" ide:connectionName="eICR database"&gt;   &lt;driver&gt;net.sourceforge.jtds.jdbc.Driver&lt;/driver&gt;   &lt;url&gt;\${dbConn_eICR}&lt;/url&gt;   &lt;username /&gt;   &lt;password /&gt;   &lt;key&gt;RecordNumber&lt;/key&gt;   &lt;initialKeyValue&gt;1&lt;/initialKeyValue&gt;   &lt;refreshRate&gt;60000&lt;/refreshRate&gt;   &lt;convertNullFields /&gt;   &lt;binaryEncoding&gt;base64&lt;/binaryEncoding&gt;   &lt;statement name="SELECT_eCR" ide:type="executeSql" ide:summary="SELECT_eCR" ide:allowCompoundStatements="true"&gt;     &lt;sql&gt;select top 1 RecordNumber, patient_id_authority , patient_id, doc_id_root, doc_id_extension , patient_first_name, patient_middle_name, patient_family_name, patient_date_of_birth, rr_condition_code, patient_administrative_gender, patient_home_number, patient_street_address, patient_city, patient_state, patient_zip_code, patient_county, patient_country, doc_effective_time, created_date FROM eCR_eCRTemporal WHERE RecordNumber &amp;gt; @RecordNumber ORDER BY RecordNumber&lt;/sql&gt;   &lt;/statement&gt; &lt;/config&gt;</pre> |                   |

| Used on Routes           | Page      |
|--------------------------|-----------|
| ECR_0_Person Lookup..... | Route 104 |

## Details

| Retries                     |  |
|-----------------------------|--|
| Retry Type                  | Linear                                     |
| Number of Retries           | 5  |
| Retries before Notification | 5  |
| Retry Delay (ms)            | 5000                                       |
| Properties                  |  |
| Idle Timeout (ms)           | 0  |
| Number of Connections       | 1  |
| Startup State               | Startup First (only if previously running) |
| Input Message Encoding      | Unknown / Not Set                          |



# Sink

## Sink (Output Mode)

## Communication Point

| Used on Routes                  | Page                      |
|---------------------------------|---------------------------|
| ECR_0_Person Lookup.....        | Route <a href="#">104</a> |
| ECR_2_Race Language Lookup..... | Route <a href="#">116</a> |
| ECR_MIF Status.....             | Route <a href="#">147</a> |

## Details

| Retries                     |  |
|-----------------------------|--|
| Retry Type                  | Linear                                     |
| Number of Retries           | 5  |
| Retries before Notification | 5  |
| Retry Delay (ms)            | 5000                                       |
| Properties                  |  |
| Idle Timeout (ms)           | 0  |
| Number of Connections       | 1  |
| Startup State               | Startup First (only if previously running) |
| Continue Routing Enabled    | False                                      |



# Update MIF Status Publish

## Dynamic Router (Output Mode)

Communication Point

| Configuration Properties   |                               |
|--|-------------------------------|
| Delivery Mode  | Always Use Static Destination |
| Static Destination   | @MIF_Status                   |
| Index Message Properties   | false                         |
| Used on Routes   |                               |
|  ECR_0_Person Lookup..... | Route <a href="#">104</a>     |
|  ECR_1_Event Lookup.....  | Route <a href="#">111</a>     |
|  ECR_3_XML To MIF.....    | Route <a href="#">124</a>     |

## Details

| Retries                     |   |
|-----------------------------|---|
| Retry Type                  | Linear                                      |
| Number of Retries           | 5   |
| Retries before Notification | 5   |
| Retry Delay (ms)            | 5000  |
| Properties                  |   |
| Idle Timeout (ms)           | 0   |
| Number of Connections       | 1   |
| Startup State               | Startup Second (only if previously running) |
| Continue Routing Enabled    | False                                       |



# Update MIF Status Subscribe

## Dynamic Router (Input Mode)

Communication Point

| Configuration Properties  |                           |
|---|---------------------------|
| Used on Routes  | Page                      |
|  ECR_MIF Status..... | Route <a href="#">147</a> |

## Details

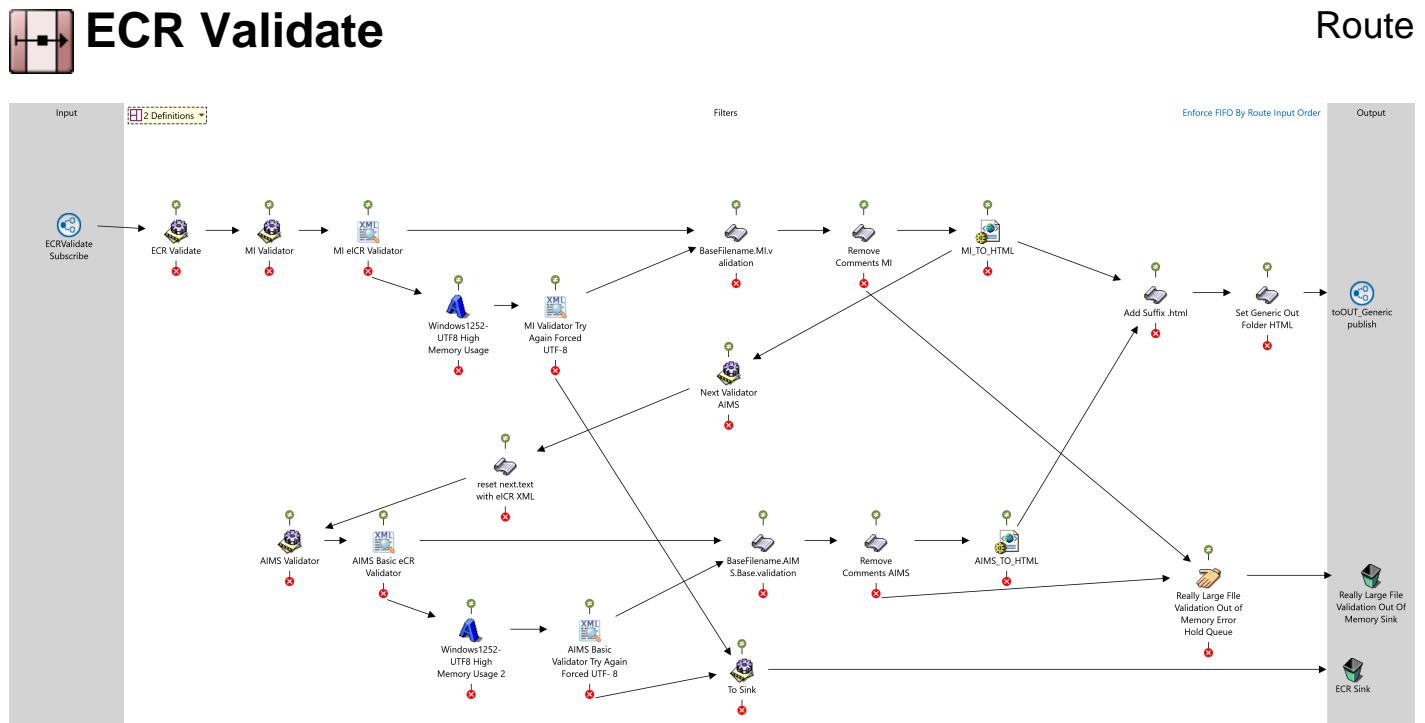
| Retries                     |   |
|-----------------------------|---|
| Retry Type                  | Linear                                    |
| Number of Retries           | 5   |
| Retries before Notification | 5   |
| Retry Delay (ms)            | 5000                                      |
| Properties                  |   |
| Idle Timeout (ms)           | 0   |
| Number of Connections       | 1   |
| Startup State               | Startup Last (only if previously running) |
| Input Message Encoding      | Unknown / Not Set                         |

# 04\_ECR\_Validate

Full Path /ECR/04\_ECR\_Validate

Folder

| <b>Summary</b>   |                    |
|--|--------------------|
| Communication Points (3)   |                    |
| Route (1)  |                    |
| <b>Folder Contents</b>   |                    |
|  | <b>Page</b>        |
|  ECR Validate.....                                    | Route 158          |
|  ECRValidate Subscribe.....                           | Dynamic Router 169 |
|  Really Large File Validation Out Of Memory Sink..... | Sink 170           |
|  toOUT_Generic publish.....                           | Dynamic Router 171 |



| Inputs   | Page                               |
|--|------------------------------------|
| <b>ECRValidate Subscribe</b> .....                           | Dynamic Router <a href="#">169</a> |
| Outputs  | Page                               |
| <b>toOUT_Generic publish</b> .....                           | Dynamic Router <a href="#">88</a>  |
| <b>Really Large File Validation Out Of Memory Sink</b> ..... | Sink <a href="#">170</a>           |
| <b>ECR Sink</b> .....  | Sink <a href="#">85</a>            |

## Filters

| Name   | Page                                |
|--|-------------------------------------|
| <b>Add Suffix .html</b> .....  | JavaScript <a href="#">162</a>      |
| <b>AIMS_TO_HTML</b> .....  | XSLT Stylesheet <a href="#">160</a> |
| <b>AIMS Basic eCR Validator</b> .....                                    | Schematron <a href="#">165</a>      |
| <b>AIMS Basic Validator Try Again Forced UTF- 8</b> .....                | Schematron <a href="#">165</a>      |
| <b>AIMS Validator</b> .....  | No-operation <a href="#">163</a>    |
| <b>BaseFilename.AIMS.Base.validation</b> .....                           | JavaScript <a href="#">161</a>      |
| <b>BaseFilename.MI.validation</b> .....                                  | JavaScript <a href="#">166</a>      |
| <b>ECR Validate</b> .....  | No-operation <a href="#">161</a>    |
| <b>MI_TO_HTML</b> .....  | XSLT Stylesheet <a href="#">164</a> |
| <b>MI eCR Validator</b> .....  | Schematron <a href="#">167</a>      |
| <b>MI Validator</b> .....  | No-operation <a href="#">165</a>    |
| <b>MI Validator Try Again Forced UTF-8</b> .....                         | Schematron <a href="#">163</a>      |
| <b>Next Validator AIMS</b> .....   | No-operation <a href="#">166</a>    |
| <b>Really Large Flle Validation Out of Memory Error Hold Queue</b> ..... | Hold Queue <a href="#">161</a>      |

| Name                                      | Page                              |
|---|-----------------------------------|
| Remove Comments AIMS.....                 | JavaScript 167                    |
| Remove Comments MI.....                   | JavaScript 160                    |
| reset next.text with eICR XML.....        | JavaScript 163                    |
| Set Generic Out Folder HTML.....          | JavaScript 164                    |
| To Sink.....                              | No-operation 163                  |
| Windows1252-UTF8 High Memory Usage.....   | Character Encoding Translator 162 |
| Windows1252-UTF8 High Memory Usage 2..... | Character Encoding Translator 160 |

## Details

| General                     |   |
|-----------------------------|---|
| Priority                    | Normal                                      |
| Startup State               | Startup Second (only if previously running) |
| FIFO Mode                   | Enforce FIFO By Route Input Order           |
| Stop route on error message | False                                       |

## Content Extraction

| Property Name                      | Messages         | Field Paths                |
|------------------------------------|------------------|----------------------------|
| <b>CDA.xsd</b>                     |                  |                            |
| documentID                         | ClinicalDocument | /ClinicalDocument/id/@root |
| <b>simplifiedXML_eICR_V1.2.xsd</b> |                  |                            |



## Windows1252-UTF8 High Memory Usage

Filter

2

### Character Encoding Translator

On ECR Validate route

| Configuration Properties  |  |
|---------------------------|--|
| Input Character Encoding  | Windows Latin-1 : Cp1252                   |
| Output Character Encoding | 8-bit Unicode Transformation Format : UTF8 |
| Character Mapping File    |  |

### Destinations

| Name  | Page                           |
|---|--------------------------------|
| AIMS Basic Validator Try Again Forced UTF- 8..... | Schematron <a href="#">165</a> |



## AIMS\_TO\_HTML

Filter

### XSLT Stylesheet

On ECR Validate route

| Configuration Properties |  |
|--------------------------|--|
| Maximum Concurrency      | 0  |
| XSLT File                | AIMS_Validation_Alтарум_WDECR_20230217.xsl |
| Input EDI Definition     |  |
| Output EDI Definition    |  |

### Destinations

| Name                  | Page                           |
|-----------------------|--------------------------------|
| Add Suffix .html..... | JavaScript <a href="#">162</a> |



## Remove Comments MI

Filter

### JavaScript

On ECR Validate route

| Javascript   |
|--|
| <pre>/* Single input message case */ // Create the output message var next = output.append(input[0]);  var next_text = next.text;  //var Adjusted_next_text = next_text.replace( "(?s)&lt;--.*?--&gt;" , " " );  var FOUND_Comment=next_text.indexOf("&lt;!--");</pre> |

**Javascript**

```
//log.info("FOUND_Comment: "+FOUND_Comment);

while (FOUND_Comment != -1 )
{
    FOUND_END=next_text.indexOf("-->") + 3;
    next_text=next_text.substring(0,FOUND_Comment)+next_text.substring(FOUND_END);
    FOUND_Comment=next_text.indexOf("<!--");
    //log.info("FOUND_Comment: "+FOUND_Comment);
}

next.text = next_text;
```

**Destinations**

| Name   | Page                |
|--|---------------------|
| MI_TO_HTML..... XSLT Stylesheet  | <a href="#">164</a> |
| <b>Error Connector</b>   | <b>Page</b>         |
| Really Large File Validation Out of Memory Error Hold Queue.....Hold Queue | <a href="#">161</a> |

**Really Large File Validation Out of Memory Error Hold Queue**

Filter

**Hold Queue**

On ECR Validate route

**Destinations**

| Name   | Page                |
|--|---------------------|
| Really Large File Validation Out Of Memory Sink.....Sink | <a href="#">170</a> |

**ECR Validate**

Filter

**No-operation**

On ECR Validate route

**Destinations**

| Name                           | Page                |
|--------------------------------|---------------------|
| MI Validator..... No-operation | <a href="#">165</a> |

**BaseFilename.AIMS.Base.validation**

Filter

**JavaScript**

On ECR Validate route

### Javascript

```
/* Single input message case */
var next = output.append(input[0]);
//var BaseFilename=next.getProperty("BaseFilename");
var FullFilename=next.getProperty("FullFilename");
var adjustedBaseFilename=FullFilename+".AIMS.Base.validation";
next.setProperty("BaseFilename",adjustedBaseFilename);
```

## Destinations

| Name                      | Page                           |
|---------------------------|--------------------------------|
| Remove Comments AIMS..... | JavaScript <a href="#">167</a> |

## Add Suffix .html

Filter

### JavaScript

On ECR Validate route

### Javascript

```
/* Single input message case */
var next = output.append(input[0]);
next.setProperty("Suffix", ".html");
```

## Destinations

| Name                             | Page                           |
|----------------------------------|--------------------------------|
| Set Generic Out Folder HTML..... | JavaScript <a href="#">164</a> |

## Windows1252-UTF8 High Memory Usage

Filter

### Character Encoding Translator

On ECR Validate route

### Configuration Properties

|                           |  |
|---------------------------|--|
| Input Character Encoding  | Windows Latin-1 : Cp1252                   |
| Output Character Encoding | 8-bit Unicode Transformation Format : UTF8 |
| Character Mapping File    |  |

## Destinations

| Name                                     | Page                           |
|--|--------------------------------|
| MI Validator Try Again Forced UTF-8..... | Schematron <a href="#">163</a> |

 **AIMS Validator**
**No-operation**

On ECR Validate route

Filter

**Destinations**

| Name  | Page                           |
|---|--------------------------------|
|  AIMS Basic eCR Validator..... | Schematron <a href="#">165</a> |

 **MI Validator Try Again Forced UTF-8**

Filter

**Schematron**

On ECR Validate route

| Configuration Properties            |  |
|-------------------------------------|--|
| Maximum Concurrency                 | 0  |
| Schematron Definition (Zip Archive) | Michigan_Schematron_Alтарум_WDECR_20200207.zip |
| On Validation Success               | Output SVRL Report                             |
| On Validation Failure               | Output SVRL report                             |
| Schematron Phase                    |  |

**Destinations**

| Name  | Page                             |
|---|----------------------------------|
|  BaseFilename.MI.validation..... | JavaScript <a href="#">166</a>   |
| Error Connector   | Page                             |
|  To Sink.....                    | No-operation <a href="#">163</a> |

 **To Sink**

Filter

**No-operation**

On ECR Validate route

**Destinations**

| Name  | Page                    |
|---|-------------------------|
|  ECR Sink..... | Sink <a href="#">85</a> |

 **reset next.text with elCR XML**

Filter

**JavaScript**

On ECR Validate route

| Javascript                      |
|---------------------------------|
| /* Single input message case */ |

**Javascript**

```
// Create the output message
var next = output.append(input[0]);
var docRawText=next.getProperty("docRawText");
next.text = docRawText;
```

**Destinations**

| Name  | Page                             |
|---|----------------------------------|
|  AIMS Validator..... | No-operation <a href="#">163</a> |

 **Set Generic Out Folder HTML**

Filter

**JavaScript**

On ECR Validate route

**Javascript**

```
for (var i = 0; i < input.length; i++) {
    var next = output.append(input[i]);

    var BaseFilename = next.getProperty("BaseFilename") || "unnamed";
    var eCRProcess='eCRProcess_out_validations'
    var meta_sender=next.getProperty("meta_sender");

    var AdjustedBaseFilename=eCRProcess+"/"+meta_sender+"/"+BaseFilename;
    next.setProperty("BaseFilename",AdjustedBaseFilename);

    next.setProperty("Suffix", "HTML");

}
```

**Destinations**

| Name   | Page                              |
|--|-----------------------------------|
|  toOUT_Generic publish..... | Dynamic Router <a href="#">88</a> |

 **MI\_TO\_HTML**

Filter

**XSLT Stylesheet**

On ECR Validate route

**Configuration Properties**

|                      |  |
|----------------------|--|
| Maximum Concurrency  | 0  |
| XSLT File            | MI_Validation_Alтарум_WDECR_20230217.xsl |
| Input EDI Definition |  |

**Configuration Properties**

Output EDI Definition

**Destinations**

| Name                     | Page                             |
|--------------------------|----------------------------------|
| Add Suffix .html.....    | JavaScript <a href="#">162</a>   |
| Next Validator AIMS..... | No-operation <a href="#">166</a> |

**MI Validator**

Filter

**No-operation**

On ECR Validate route

**Destinations**

| Name                   | Page                           |
|------------------------|--------------------------------|
| MI eICR Validator..... | Schematron <a href="#">167</a> |

**AIMS Basic Validator Try Again Forced  
UTF- 8**

Filter

**Schematron**

On ECR Validate route

**Configuration Properties**

|                                     |  |
|-------------------------------------|--|
| Maximum Concurrency                 | 0  |
| Schematron Definition (Zip Archive) | CDAR2_IG_PHCASERPT_R2_STU1.1_SCHEMATRON_Alтарум_WDECR_20230202.zip |
| On Validation Success               | Output SVRL Report   |
| On Validation Failure               | Output SVRL report   |
| Schematron Phase                    |  |

**Destinations**

| Name                                   | Page                             |
|--|----------------------------------|
| BaseFilename.AIMS.Base.validation..... | JavaScript <a href="#">161</a>   |
| <b>Error Connector</b>                 | <b>Page</b>                      |
| To Sink.....                           | No-operation <a href="#">163</a> |

**AIMS Basic eCR Validator**

Filter

**Schematron**

On ECR Validate route

| Configuration Properties            |  |
|-------------------------------------|--|
| Maximum Concurrency                 | 0  |
| Schematron Definition (Zip Archive) | CDAR2_IG_PHCASERPT_R2_STU1.1_SCHEMATRON_AltaRum_WDECR_20230202.zip |
| On Validation Success               | Output SVRL Report   |
| On Validation Failure               | Output SVRL report   |
| Schematron Phase                    |  |

## Destinations

| Name  | Page  |
|---|---|
| 🔗 BaseFilename.AIMS.Base.validation.....    | JavaScript <a href="#">161</a>                    |
| Error Connector                             | Page  |
| ⚠ Windows1252-UTF8 High Memory Usage 2..... | Character Encoding Translator <a href="#">160</a> |

## Next Validator AIMS Filter

### No-operation

On ECR Validate route

## Destinations

| Name                                 | Page                           |
|--------------------------------------|--------------------------------|
| 🔗 reset next.text with eICR XML..... | JavaScript <a href="#">163</a> |

## BaseFilename.MI.validation Filter

### JavaScript

On ECR Validate route

| Javascript  |  |
|---|--|
| <pre>/* Single input message case */ var next = output.append(input[0]); //var BaseFilename=next.getProperty("BaseFilename"); var FullFilename=next.getProperty("FullFilename"); var adjustedBaseFilename=FullFilename+".MI.validation"; next.setProperty("BaseFilename",adjustedBaseFilename);</pre> |  |

## Destinations

| Name                      | Page                           |
|---------------------------|--------------------------------|
| 🔗 Remove Comments MI..... | JavaScript <a href="#">160</a> |



# MI eICR Validator

## Schematron

On ECR Validate route

Filter

| Configuration Properties            |  |
|-------------------------------------|--|
| Maximum Concurrency                 | 0  |
| Schematron Definition (Zip Archive) | Michigan_Schematron_AltaRum_WDECR_20200207.zip |
| On Validation Success               | Output SVRL Report                             |
| On Validation Failure               | Output SVRL report                             |
| Schematron Phase                    |  |

## Destinations

| Name                                    | Page  |
|---|---|
| BaseFilename.MI.validation.....         | JavaScript <a href="#">166</a>                    |
| Error Connector                         | Page  |
| Windows1252-UTF8 High Memory Usage..... | Character Encoding Translator <a href="#">162</a> |



# Remove Comments AIMS

Filter

## JavaScript

On ECR Validate route

| Javascript  |  |
|---|--|
| <pre>/* Single input message case */ // Create the output message var next = output.append(input[0]);  var next_text = next.text;  //var Adjusted_next_text = next_text.replace( "(?s)&lt;!--.*?--&gt;" , " " );  var FOUND_Comment=next_text.indexOf( "&lt;!--" ); //log.info("FOUND_Comment: "+FOUND_Comment);  while (FOUND_Comment != -1 ) {     FOUND_END=next_text.indexOf("--&gt;") + 3;     next_text=next_text.substring(0,FOUND_Comment)+next_text.substring(FOUND_END);     FOUND_Comment=next_text.indexOf("&lt;!--");     //log.info("FOUND_Comment: "+FOUND_Comment); }  next.text = next_text;</pre> |  |

## Destinations

| Name              | Page                                |
|-------------------|-------------------------------------|
| AIMS_TO_HTML..... | XSLT Stylesheet <a href="#">160</a> |

| Error Connector  | Page                |
|--|---------------------|
| Really Large File Validation Out of Memory Error Hold Queue.....Hold Queue | <a href="#">161</a> |



# ECRValidate Subscribe

## Dynamic Router (Input Mode)

Communication Point

| Configuration Properties |           |
|--------------------------|-----------|
| Used on Routes           | Page      |
| ECR Validate.....        | Route 158 |

## Details

| Retries                     |  |
|-----------------------------|--|
| Retry Type                  | Linear                                     |
| Number of Retries           | 5  |
| Retries before Notification | 5  |
| Retry Delay (ms)            | 5000                                       |
| Properties                  |  |
| Idle Timeout (ms)           | 0  |
| Number of Connections       | 1  |
| Startup State               | Startup First (only if previously running) |
| Input Message Encoding      | Unknown / Not Set                          |



# Really Large File Validation Out Of Memory Sink

## Sink (Output Mode)

Communication Point

| Used on Routes    | Page      |
|-------------------|-----------|
| ECR Validate..... | Route 158 |

**Details**

| Retries                     |  |
|-----------------------------|--|
| Retry Type                  | Linear                                     |
| Number of Retries           | 5  |
| Retries before Notification | 5  |
| Retry Delay (ms)            | 5000                                       |
| Properties                  |  |
| Idle Timeout (ms)           | 0  |
| Number of Connections       | 1  |
| Startup State               | Startup First (only if previously running) |
| Continue Routing Enabled    | False                                      |



# toOUT\_Generic publish

## Dynamic Router (Output Mode)

Communication Point

| Configuration Properties |                               |
|--------------------------|-------------------------------|
| Delivery Mode            | Always Use Static Destination |
| Static Destination       | @toOUT_Generic                |
| Index Message Properties | false                         |

## Details

| Retries                     |        |
|-----------------------------|--------|
| Retry Type                  | Linear |
| Number of Retries           | 5      |
| Retries before Notification | 5      |
| Retry Delay (ms)            | 5000   |

| Properties               |  |
|--------------------------|--|
| Idle Timeout (ms)        | 0  |
| Number of Connections    | 1  |
| Startup State            | Startup First (only if previously running) |
| Continue Routing Enabled | False                                      |

# 📁 05\_ECR\_Retention

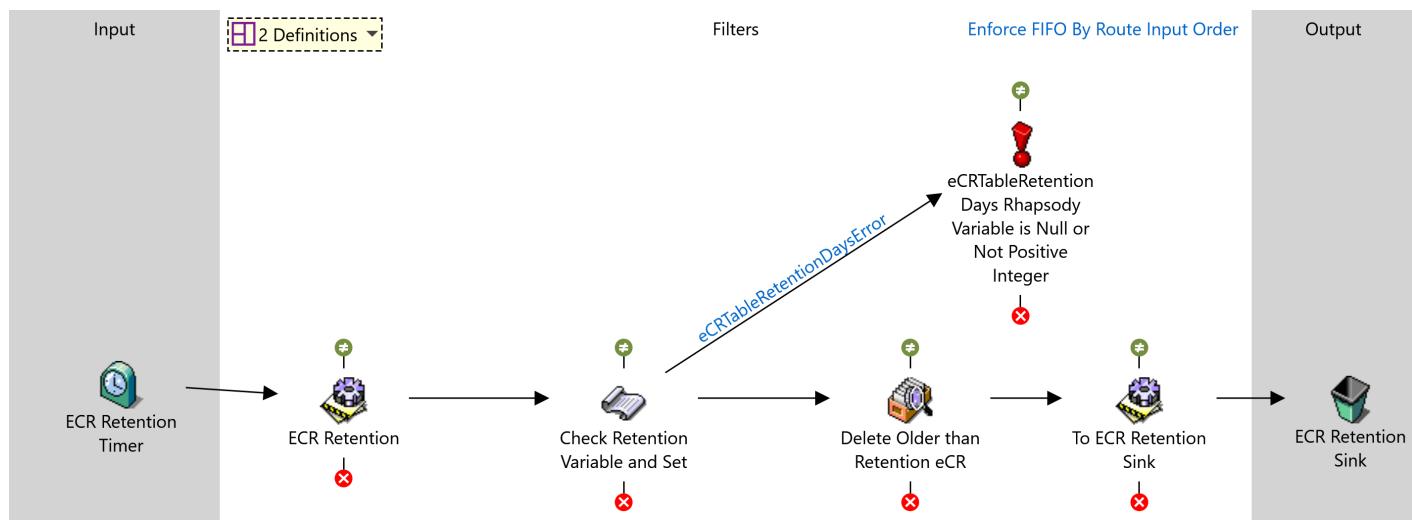
Full Path /ECR/05\_ECR\_Retention

Folder

| Summary                    |                           |
|----------------------------|---------------------------|
| Communication Points (2)   |                           |
| Route (1)                  |                           |
| Folder Contents            |                           |
| 📁 ECR Retention.....       | Route <a href="#">173</a> |
| 📦 ECR Retention Sink.....  | Sink <a href="#">177</a>  |
| ⌚ ECR Retention Timer..... | Timer <a href="#">178</a> |

# ECR Retention

Route



| Inputs                     | Page                      |
|----------------------------|---------------------------|
| ⌚ ECR Retention Timer..... | Timer <a href="#">178</a> |
| Outputs                    | Page                      |
| 📦 ECR Retention Sink.....  | Sink <a href="#">177</a>  |

## Filters

| Name   | Page                                |
|--|-------------------------------------|
| ⌚ Check Retention Variable and Set.....  | JavaScript <a href="#">175</a>      |
| 📦 Delete Older than Retention eCR.....   | Database LookUp <a href="#">174</a> |
| 📦 ECR Retention.....   | No-operation <a href="#">176</a>    |
| ❗ eCRTableRetentionDays Rhapsody Variable is Null or Not Positive Integer..... | Error Queue <a href="#">176</a>     |
| 📦 To ECR Retention Sink.....   | No-operation <a href="#">176</a>    |

## Details

| General                     |   |
|-----------------------------|---|
| Priority                    | Normal                                      |
| Startup State               | Startup Second (only if previously running) |
| FIFO Mode                   | Enforce FIFO By Route Input Order           |
| Stop route on error message | False                                       |

## Content Extraction

| Property Name                      | Messages         | Field Paths                |
|------------------------------------|------------------|----------------------------|
| <b>CDA.xsd</b>                     |                  |                            |
| documentID                         | ClinicalDocument | /ClinicalDocument/id/@root |
| <b>simplifiedXML_eICR_V1.2.xsd</b> |                  |                            |



# Delete Older than Retention eCR

Filter

**Database LookUp**

On ECR Retention route

| Configuration Properties  |                     |
|---|---------------------|
| Maximum Concurrency   | 0                   |
| Database  | Manual setting      |
| Configuration File  | Database LookUp.xml |
| Message Type  | Plain text          |
| Definition  |                     |
| Query Timeout   | 0                   |
| Deadlock Retry Attempts   | 5                   |
| Deadlock Retry Delay  | 100                 |
| Socket Timeout  | 0                   |
| Configuration File: Database LookUp.xml   |                     |
| <pre>&lt;config xmlns:ide="http://www.orionhealth.com/Rhapsody/IDE" xmlns:user="http://www.orionhealth.com/Rhapsody/IDE/UserData" version="6" ide:version="6.9.1.78122" ide:idCompatibleVersion="3.0" ide:connectionName="eICR database"&gt;   &lt;driver&gt;net.sourceforge.jtds.jdbc.Driver&lt;/driver&gt;   &lt;url&gt;\${dbConn_eICR}&lt;/url&gt;   &lt;username /&gt;   &lt;password /&gt;   &lt;convertNullFields /&gt;   &lt;binaryEncoding&gt;base64&lt;/binaryEncoding&gt;   &lt;statement name="Delete Older than Retention eCR_RRD displayName_eCRTemporal" ide:type="executeSql" ide:summary="Delete Older than Retention eCR_RRD displayName_eCRTemporal" ide:allowCompoundStatements="true"&gt;     &lt;sql&gt;delete from eCR_RRD displayName_eCRTemporal     where updated_date &lt; dateadd(day, 0 - convert (int, \$eCRTableRetentionDays), GETDATE())&lt;/sql&gt;   &lt;/statement&gt;   &lt;statement name="Delete Older than Retention eCR_eCRTemporal" ide:type="executeSql" ide:summary="Delete Older than eCR_eCRTemporal" ide:allowCompoundStatements="true"&gt;     &lt;sql&gt;delete from eCR_eCRTemporal     where updated_date &lt; dateadd(day, 0 - convert (int, \$eCRTableRetentionDays), GETDATE())&lt;/sql&gt;   &lt;/statement&gt;   &lt;statement name="Delete Older than Retention eCR_PatientTemporal" ide:type="executeSql" ide:summary="Delete Older than eCR_PatientTemporal" ide:allowCompoundStatements="true"&gt;     &lt;sql&gt;delete from eCR_PatientTemporal     where updated_date &lt; dateadd(day, 0 - convert (int, \$eCRTableRetentionDays), GETDATE())&lt;/sql&gt;   &lt;/statement&gt; &lt;/config&gt;</pre> |                     |

## Destinations

| Name   | Page             |
|--|------------------|
|  To ECR Retention Sink..... | No-operation 176 |

# Check Retention Variable and Set

Filter



JavaScript

On ECR Retention route

**Javascript**

```

/* Single input message case */
// Create the output message
var next = output.append(input[0]);

// from cole
// this could be reduced to
//line 1: var next = output.append(input[0]);
//line 2: next.setProperty( 'eCRTableRetention' , ( getVariable( 'eCRTableRetention' ) || 365 ) );
// if we're not interested in checking the validity of the retention value.

var eCRTableRetentionDays=getVariable("eCRTableRetentionDays");
if (eCRTableRetentionDays == null )
{
    // log.warn("eCRTableRetentionDays Rhapsody Variable "+eCRTableRetentionDays+" not non-null, using 365");
    next.setProperty("eCRTableRetentionDaysError", "NULL");
    next.setProperty("eCRTableRetentionDaysVariable", "null");
    eCRTableRetentionDays=547;
}
//log.debug("eCRTableRetentionDays "+eCRTableRetentionDays);

// check to see if the assigned retention in Environment Variable eCRTableRetentionDays is correctly specified as a number
// check to see if the assigned retention in Environment Variable eCRTableRetentionDays is correctly specified as an integer
var isRetentionNotANumber=isNaN(eCRTableRetentionDays);
var iseCRTTableRetentionDaysInteger = eCRTableRetentionDays % 1 === 0

if ( isRetentionNotANumber == false && eCRTableRetentionDays > 0 && iseCRTTableRetentionDays Integer )
{
    // happy path. no need to adjust the value of the retention timer for this processing run
    // It's not not a number -> it's a number
    // it's greater than zero
    //eCRTableRetentionDays=eCRTableRetentionDays;
    ;
}
else
{
    //log.warn("eCRTableRetentionDays Rhapsody Variable "+eCRTableRetentionDays+" not a number, using 547");
    next.setProperty("eCRTableRetentionDaysVariable",eCRTableRetentionDays);
    next.setProperty("eCRTableRetentionDaysError", "NotANumber");
    eCRTableRetentionDays=547;
}
next.setProperty("eCRTableRetentionDays",eCRTableRetentionDays);

```

## Destinations

| Name   | Page                |
|--|---------------------|
| Delete Older than Retention eCR.....   | Database LookUp 174 |
| Output Condition: eCRTableRetentionDaysError                                   |                     |
| eCRTableRetentionDaysError exists  |                     |
| ! eCRTableRetentionDays Rhapsody Variable is Null or Not Positive Integer..... | Error Queue 176     |

## ECR Retention

Filter

### No-operation

On ECR Retention route

## Destinations

| Name                                  | Page           |
|---------------------------------------|----------------|
| Check Retention Variable and Set..... | JavaScript 175 |

## To ECR Retention Sink

Filter

### No-operation

On ECR Retention route

## Destinations

| Name                    | Page     |
|-------------------------|----------|
| ECR Retention Sink..... | Sink 177 |

## ! eCRTableRetentionDays Rhapsody Variable is Null or Not Positive Integer

Filter

### Error Queue

On ECR Retention route

| Configuration Properties |                        |
|--------------------------|------------------------|
| Error Message            | Sent from error filter |



# ECR Retention Sink

## Sink (Output Mode)

Communication Point

| Used on Routes     | Page      |
|--------------------|-----------|
| ECR Retention..... | Route 173 |

**Details**

| Retries                     |  |
|-----------------------------|--|
| Retry Type                  | Linear                                     |
| Number of Retries           | 5  |
| Retries before Notification | 5  |
| Retry Delay (ms)            | 5000                                       |
| Properties                  |  |
| Idle Timeout (ms)           | 0  |
| Number of Connections       | 1  |
| Startup State               | Startup First (only if previously running) |
| Continue Routing Enabled    | False                                      |



# ECR Retention Timer

## Timer (Input Mode)

Communication Point

| Configuration Properties |                           |
|--------------------------|---------------------------|
| Body Template File       |                           |
| Refresh Rate             | 3600000                   |
| Used on Routes           |                           |
| ECR Retention.....       | Route <a href="#">173</a> |

## Details

| Retries                     |  |
|-----------------------------|--|
| Retry Type                  | Linear                                     |
| Number of Retries           | 5  |
| Retries before Notification | 5  |
| Retry Delay (ms)            | 5000                                       |
| Properties                  |  |
| Idle Timeout (ms)           | 0  |
| Number of Connections       | 1  |
| Startup State               | Startup First (only if previously running) |
| Input Message Encoding      | Unknown / Not Set                          |

# Default Notification Thresholds

| All Times  |   |
|--|---|
| High CPU Usage                                     | Warning: Time = 10, Alarm: Time = 20, CPU Usage = 79                |
| Custom Module Changed                              | Disabled  |
| Large Queue  | Warning: Threshold = 2500, Alarm: Threshold = 5000                  |
| Low JVM Memory                                     | Warning: Threshold = 128, Alarm: Threshold = 64, Time = 5           |
| Route Started                                      | Disabled  |
| Large Error Queue                                  | Warning: Message Count = 50, Alarm: Message Count = 200             |
| Communication Point Started                        | Disabled  |
| Long Idle Time                                     | Disabled  |
| Large Hold Queue                                   | Warning: Message Count = 50, Alarm: Message Count = 200             |
| Communication Point Stopped In Error               | Alarm   |
| Route Stopped In Error                             | Alarm   |
| Routes Stopped Due To Low Disk Space               | Alarm   |
| Unexpected Message Tracking Response               | Warning   |
| Unconnected Running Communication Point            | Disabled  |
| Message Time In Filter Exceeded                    | Warning: Time = 30, Alarm: Time = 40                                |
| Web Service Retrying                               | Warning   |
| Communication Points Stopped Due To Low Disk Space | Alarm   |
| Message Tracking Response Timeout                  | Disabled  |
| Slow Message Processing                            | Warning: Threshold = 2700, Alarm: Threshold = 3600, Time Period = 5 |
| Hold Queue Message                                 | Warning   |
| Web Service Connector Restarted                    | Disabled  |
| Rhapsody Starting                                  | Warning   |
| Configuration Changed                              | Disabled  |
| Large Queue  | Warning: Threshold = 2500, Alarm: Threshold = 5000                  |
| Error Queue Message                                | Warning   |
| Long Idle Time                                     | Disabled  |
| Low Data Directory Disk Space                      | Warning: Free Space = 10240, Alarm: Free Space = 6144               |
| Custom Library Changed                             | Disabled  |
| Long Idle Time                                     | Disabled  |
| Route Stopped                                      | Disabled  |
| Web Service Started                                | Disabled  |
| Large Communication Point Queue                    | Disabled  |
| Error Queue Message                                | Warning   |
| Backup Failed                                      | Alarm   |
| Message Potentially Stuck While Sending            | Warning: Time = 30, Alarm: Time = 40                                |
| High Working Memory                                | Warning: Threshold = 83, Alarm: Threshold = 90                      |
| Communication Point Started Out Of Schedule        | Disabled  |
| Large Route Queue                                  | Disabled  |

| <b>All Times</b>   |  |
|--|--|
| Communication Point Stopped                              | Disabled   |
| REST API call rejected due to too many incoming requests | Warning  |
| Long GC Pause  | Warning: Threshold = 10, Alarm: Threshold = 30   |
| SSL Certificate Expiry                                   | Warning: Days before certificate expires = 30, Alarm: Days before certificate expires = 14 |
| Messages in Failed Queue                                 | Warning: Time = 10, Alarm: Time = 60   |
| Upcoming Rhapsody License Expiry                         | Warning: Days Before Expiry = 14, Alarm: Days Before Expiry = 7                            |
| Low Install Directory Disk Space                         | Warning: Free Space = 5120, Alarm: Free Space = 3072                                       |
| Old Live Error Queue Messages                            | Warning  |