# Purpose

This release note covers the changes to Carrier servers to fix ESR mentioned in below table

| ESR | Description | PTC TS # (if any) |
| --- | --- | --- |
| 26584 | Add URL links to the BOM Viewables for CCD ECNs. |  |
| 24226 | Add Drawing Number IBA to WTPart |  |
| 21153 | ECN1057273 is hung up – Workflow Publish PreProduction |  |
| 24784 | Publishing of PreProduction Drawings |  |

# Revision History

Document revision history is controlled by <http://windchill.carrier.utc.com>/Windchill (Carrier’s production server).

Production server & PDS site URL’s of the RN’s should be listed over here

# Change History

| Date | Revision | Technician | Description of change and a link to affected section |
| --- | --- | --- | --- |
| 12/20/12 | -.1 | Paul Sweet | Initial release |
| 1/16/13 | -.4 | Paul Sweet | Added Drawing Number IBA to WTPart and wc.xconf additions |
| 1/23/13 | -.5 | Paul Sweet | Added RLCS ECN workflow |
| 1/26/13 | -.6 | Paul Sweet | Added addition ESR 21153 and 24784 |

# Issue Summary

Add URL links to the PDF BOM Viewable to allow quick and easy access to components and drawings that define the structure.

# Deployment Status

Below table contains current status of these changes, this tables will be updated by Infrastructure Team

|  |  |  |  |
| --- | --- | --- | --- |
| **Servers** | **Development** | **Staging** | **Production** |
| **Deployed by** |  |  |  |
| **Deployed Date** |  |  |  |
| **Validated by** |  |  |  |
| **Validated date** |  |  |  |

# Check List

Below are the lists of items that need to be verified before scheduling deployment on test and production server.

|  |  |  |  |
| --- | --- | --- | --- |
| **Check-list** | **Development** | **Staging** | **Production** |
| **Files updated to SVN** |  |  |  |
| **Included manual recovery steps** |  |  |  |
| **Included validation Steps** |  |  |  |
| **Validation Confirmation from User** |  |  |  |
| **Database Export required** |  |  |  |
| **LDAP Export required?** |  |  |  |
| **Windchill codebase Backup?** |  |  |  |
| **Selected Files Backup** |  |  |  |
| **Change Control** |  |  |  |
| **Windchill Start/Stop required?** |  |  |  |

# Steps to Reproduce

N/A

# Resolution

Below are the different steps involved during deployment.

## Specify the SVN Location

All modified/updated files downloaded from: [WC10\_DEV](https://sspsvn.ptc.com/view_Carrier/PDSOptimization/branches/WC10_DEV/)

## List of all OOTB & Custom files modified to resolve this issue

Below are the lists of files that are modified to resolve this ESR. If completed Windchill codebase backup is not requested then these files need to be manually backup before deploying updated files

| **File Name** |
| --- |
| **/apps/ptc/Windchill/src/ext/carrier/wc/reports/PartBOMReportHelper.java** |
| **/apps/ptc/Windchill/src/ext/carrier/wc/reports/PartBOMReportProcessor.java** |
| **/apps/ptc/Windchill/src/ext/carrier/wc/reports/RepresentableHelper.java** |
| **/apps/ptc/Windchill/src/ext/carrier/wc/reports/entity/PartStructureBean.java** |
| **/apps/ptc/Windchill/codebase/ext/carrier/wc/wc.xconf** |
| **/apps/ptc/Windchill/loadFiles/ext/carrier/common/typedef/WT PART/\*** |

## List of all new file/files added to resolve this issue

Below are the lists of files that are added to resolve this ESR.

| **File Name** |
| --- |
| **/apps/ptc/Windchill/codebase/netmarkets/jsp/ext/carrier/wc/querydoc/queryDocument.jsp** |
| **/apps/ptc/Windchill/codebase/netmarkets/jsp/ext/carrier/wc/querydoc/error.jsp** |
| **/apps/ptc/Windchill/codebase/netmarkets/jsp/ext/carrier/wc/queryDrawing/queryDrawing.jsp** |
| **/apps/ptc/Windchill/codebase/netmarkets/jsp/ext/carrier/wc/ queryDrawing /error.jsp** |
| **/apps/ptc/Windchill/codebase/netmarkets/jsp/ext/carrier/wc/queryDrawing/queryLatestReleasedDrawing.jsp** |
| **/apps/ptc/Windchill/codebase/netmarkets/jsp/ext/carrier/wc/ queryECN /error.jsp** |
| **/apps/ptc/Windchill/codebase/netmarkets/jsp/ext/carrier/wc/ queryECN /queryECN.jsp** |
| **/apps/ptc/Windchill/codebase/netmarkets/jsp/ext/carrier/wc/ querypart/queryLatestReleasePart.jsp** |
| **/apps/ptc/Windchill/loadFiles/ext/carrier/common/oirs/CarrierCCDChangeNoticeOIR\_ESR26584.xml** |
| **/apps/ptc/Windchill/loadFiles/ext/carrier/wc/lifecycles/CarrierCCDChangeNoticeLifecycle\_ESR26584.xml** |
| **/apps/ptc/Windchill/loadFiles/ext/carrier/wc/workflows/CarrierCCDChangeNoticeProcess\_ESR26584\_01.xml** |
| **/apps/ptc/Windchill/loadFiles/ext/carrier/wc/workflows/CarrierCCDChangeNoticeProcess\_ESR26584\_02.xml** |
| **/apps/ptc/Windchill/loadFiles/ext/carrier/wc/workflows/CarrierRLCSChangeNoticeProcess\_ESR26584\_01.xml** |
| **/apps/ptc/Windchill/loadFiles/ext/carrier/wc/workflows/CarrierRLCSChangeNoticeProcess\_ESR26584\_02.xml** |
| **/apps/ptc/Windchill/loadFiles/ext/carrier/wc/workflows/CarrierChangeActivityWorkflow\_ESR26584\_01.xml** |
| **/apps/ptc/Windchill/loadFiles/ext/carrier/wc/workflows/ CarrierChangeActivityWorkflow\_ESR26584\_02.xml** |
| **/apps/ptc/Windchill/src/ext/carrier/wc/workflow/CarrierWorkflowHelper2.java** |
| **/apps/ptc/Windchill/src/ext/carrier/wc/workflow/CarrierWorkflowHelperBSS2.java** |
| **/apps/ptc/Windchill/src/ext/carrier/wc/workflow/CarrierWorkflowHelperCCD2.java** |
| **/apps/ptc/Windchill/src/ext/carrier/wc/workflow/CarrierWorkflowHelperCTD2.java** |
| **/apps/ptc/Windchill/src/ext/carrier/wc/workflow/CarrierWorkflowHelperRLCS2.java** |
| **/apps/ptc/Windchill/src/ext/carrier/wc/workflow/CarrierWorkflowHelperSpringer2.java** |
| **/apps/ptc/Windchill/codebase/ext/carrier/wc/wc\_ESR26584.xconf** |
| **/apps/ptc/Windchill/loadFiles/ext/carrier/common/typedef/Carrier\_AddDrawingNumber\_ESR26584.xml** |
| **/apps/ptc/Windchill/loadFiles/ext/carrier/common/typedef/WT PART\_ESR26584/\*** |

## Manual changes before deploying changes

1. Backup the following files:

/apps/ptc/Windchill/codebase/ext/carrier/wc/reports/ PartBOMReportHelper.class

/apps/ptc/Windchill/codebase/ext/carrier/wc/reports/PartBOMReportProcessor.class

/apps/ptc/Windchill/codebase/ext/carrier/wc/reports/ RepresentableHelper.class

/apps/ptc/Windchill/codebase/ext/carrier/wc/reports/entity/PartStructureBean.class

/apps/ptc/Windchill/src/ext/carrier/wc/reports/ PartBOMReportHelper.java

/apps/ptc/Windchill/src/ext/carrier/wc/reports/ PartBOMReportProcessor.java

/apps/ptc/Windchill/src/ext/carrier/wc/reports/ RepresentableHelper.java

/apps/ptc/Windchill/src/ext/carrier/wc/reports/entity/PartStructureBean.java

1. Rename /apps/ptc/Windchill/loadFiles/ext/carrier/common/typedef/WT Part directory with date stamp similar to:

/apps/ptc/Windchill/loadFiles/ext/carrier/common/typedef/WT Part20130116

1. Copy /apps/ptc/Windchill/codebase/ext/carrier/wc/wc.xconf to a file with date stamp similar to:

/apps/ptc/Windchill/codebase/ext/carrier/wc/wc.xconf.20130116

## Deployment procedure

1. Download the files mentioned above to their corresponding folders.
2. Run the following commands from a Windchill shell

javac /apps/ptc/Windchill/src/ext/carrier/wc/reports/PartBOMReportHelper.java

javac /apps/ptc/Windchill/src/ext/carrier/wc/reports/PartBOMReportProcessor.java

javac /apps/ptc/Windchill/src/ext/carrier/wc/reports/RepresentabletHelper.java

javac /apps/ptc/Windchill/src/ext/carrier/wc/reports/entity/PartStructureBean.java

javac /apps/ptc/Windchill/src/ext/carrier/wc/workflow/CarrierWorkflowHelper2.java

javac /apps/ptc/Windchill/src/ext/carrier/wc/workflow/CarrierWorkflowHelperBSS2.java

javac /apps/ptc/Windchill/src/ext/carrier/wc/workflow/CarrierWorkflowHelperCCD2.java

javac /apps/ptc/Windchill/src/ext/carrier/wc/workflow/CarrierWorkflowHelperCTD2.java

javac /apps/ptc/Windchill/src/ext/carrier/wc/workflow/CarrierWorkflowHelperRLCS2.java

javac /apps/ptc/Windchill/src/ext/carrier/wc/workflow/CarrierWorkflowHelperSpringer2.java

mv /apps/ptc/Windchill/src/ext/carrier/wc/reports/PartBOMReportHelper.class /apps/ptc/Windchill/codebase/ext/carrier/wc/reports/ PartBOMReportHelper.class

cp /apps/ptc/Windchill/src/ext/carrier/wc/reports/PartBOMReportProcessor.class /apps/ptc/Windchill/codebase/ext/carrier/wc/reports/PartBOMReportProcessor.class

mv /apps/ptc/Windchill/src/ext/carrier/wc/reports/RepresentabletHelper.class /apps/ptc/Windchill/codebase/ext/carrier/wc/reports/RepresentabletHelper.class

mv /apps/ptc/Windchill/src/ext/carrier/wc/reports/entity/PartStructureBean.class /apps/ptc/Windchill/codebase/ext/carrier/wc/reports/entity/PartStructureBean.class

mv /apps/ptc/Windchill/src/ext/carrier/wc/workflow/CarrierWorkflowHelper2.class /apps/ptc/Windchill/codebase/ext/carrier/wc/workflow/CarrierWorkflowHelper2.class

mv /apps/ptc/Windchill/src/ext/carrier/wc/workflow/CarrierWorkflowHelperBSS2.class /apps/ptc/Windchill/codebase/ext/carrier/wc/workflow/CarrierWorkflowHelperBSS2.class

mv /apps/ptc/Windchill/src/ext/carrier/wc/workflow/CarrierWorkflowHelperCCD2.class /apps/ptc/Windchill/codebase/ext/carrier/wc/workflow/CarrierWorkflowHelperCCD2.class

mv /apps/ptc/Windchill/src/ext/carrier/wc/workflow/CarrierWorkflowHelperCTD2.class /apps/ptc/Windchill/codebase/ext/carrier/wc/workflow/CarrierWorkflowHelperCTD2.class

mv /apps/ptc/Windchill/src/ext/carrier/wc/workflow/CarrierWorkflowHelperRLCS2.class /apps/ptc/Windchill/codebase/ext/carrier/wc/workflow/CarrierWorkflowHelperRLCS2.class

mv /apps/ptc/Windchill/src/ext/carrier/wc/workflow/CarrierWorkflowHelperSpringer2.class /apps/ptc/Windchill/codebase/ext/carrier/wc/workflow/CarrierWorkflowHelperSpringer2.class

1. From a Windchill shell, run the following commands to load the workflows:

windchill wt.load.LoadFromFile -d /apps/ptc/Windchill/loadFiles/ext/carrier/wc/workflows/CarrierChangeActvityWorkflow\_ESR26584\_01.xml –u carrierorgadmin –p ptc -CONT\_PATH \”/wt.inf.container.OrgContainer=Carrier\”

windchill wt.load.LoadFromFile -d /apps/ptc/Windchill/loadFiles/ext/carrier/wc/workflows/CarrierCCDChangeNoticeProcess\_ESR26584\_01.xml –u carrierorgadmin –p ptc -CONT\_PATH \”/wt.inf.container.OrgContainer=Carrier\”

windchill wt.load.LoadFromFile -d /apps/ptc/Windchill/loadFiles/ext/carrier/wc/workflows/CarrierRLCSChangeNoticeProcess\_ESR26584\_01.xml –u carrierorgadmin –p ptc -CONT\_PATH \”/wt.inf.container.OrgContainer=Carrier\”

1. From a Windchill shell, run the following command to load the CCD Change Notice lifecycle:

windchill wt.load.LoadFromFile -d /apps/ptc/Windchill/loadFiles/ext/carrier/wc/lifecycles/CarrierCCDChangeNoticeLifecycle\_ESR26584.xml –u carrierorgadmin –p ptc -CONT\_PATH \”/wt.inf.container.OrgContainer=Carrier\”

1. From a Windchill shell, run the following command to load the CCD ECN OIR

windchill wt.load.LoadFromFile -d /apps/ptc/Windchill/loadFiles/ext/carrier/common/oirs/CarrierCCDChangeNoticeOIR\_ESR26584.xml –u carrierorgadmin –p ptc -CONT\_PATH \”/wt.inf.container.OrgContainer=Carrier\”

1. Append the contents of /apps/ptc/Windchill/codebase/ext/carrier/wc/wc\_ESR26584.xconf to/apps/ptc/Windchill/codebase/ext/carrier/wc/wc.xconf. Run the following command from a Windchill shell:

xconfmanager -p

1. From a Windchill shell, run the following command to load the Drawing Number iba:

windchill wt.load.loadFromFile -d /apps/ptc/Windchill/loadFiles/ext/carrier/common/typedef/Carrier\_AddDrawingNumber\_ESR26584.xml -u wcadmin -p wcadmin

1. From a Windchill shell, run the following command to update the WTPart:

windchill wt.load.LoadFromFile -d /apps/ptc/Windchill/loadFiles/ext/carrier/common/typedef/WTPart\_ESR26584\_0.xml –u carrierorgadmin –p ptc -CONT\_PATH \”/wt.inf.container.OrgContainer=Carrier\”

windchill wt.load.LoadFromFile -d /apps/ptc/Windchill/loadFiles/ext/carrier/common/typedef/WTPart\_ESR26584\_1.xml –u carrierorgadmin –p ptc -CONT\_PATH \”/wt.inf.container.OrgContainer=Carrier\”

windchill wt.load.LoadFromFile -d /apps/ptc/Windchill/loadFiles/ext/carrier/common/typedef/WTPart\_ESR26584\_2.xml –u carrierorgadmin –p ptc -CONT\_PATH \”/wt.inf.container.OrgContainer=Carrier\”

windchill wt.load.LoadFromFile -d /apps/ptc/Windchill/loadFiles/ext/carrier/common/typedef/WTPart\_ESR26584\_3.xml –u carrierorgadmin –p ptc -CONT\_PATH \”/wt.inf.container.OrgContainer=Carrier\”

## Manual changes after deployment

1. NA

# Validation

1. Create a new CCD ECN with a single Change Activity, select Fast Track, in the CCD Super Fast Track product.
2. Create new WTParts, 4 WTParts adding 3 of the parts as components of the first with quantities for one. Associate EPM Drawings to each WTPart.
3. Edit the CA and add the 4 parts to the resulting objects table. Once added, complete the Complete Change Notice task.
4. On the Review Change Notice task, go to the details page of the WTPart where the structure was added.
5. Open the BOM Viewable.
   1. The ECN number should be a URL that takes you to the details page of the ECN.
   2. The Parent Number should be a URL that takes you to the details page of the specific revision of the parent part shown on the bill.
   3. The Parent Drawing Number should take you to the details page of the specific revision of the drawing shown on the bill.
   4. The component parts and drawings, the revision of the parts and drawings should be included on the BOM viewable.
   5. The component parts URL should take you to the details page of the specific revision of the component shown on the bill.
   6. The component drawing URL should take you to the details page of the specific revision of the drawing shown on the bill.
6. Complete the Review Change Notice task. On the ECN, complete the Audit Change Notice task selecting Complete.
7. Once the Submit to Production task is present, go to the details page of the parent part.
8. Open the viewable. The URL links defined above should be included in the PDF with the exception of:
   1. The component parts and drawing, the viewable doesn’t include the revisions
   2. The component part URL will always take you to the latest released (PreProduction, Production, Service, Obsolete) version of the part.
   3. The component drawing URL will always take you to the latest released version of the drawing.
9. On the details page of the parent WTPart, go to the Representations / Annotations, you may have to create a new tab to get to them. You should see 3 representations:
   1. One named “CA Review”
   2. One named “As Released”
   3. One named “Latest Released” which is the default viewable

# Steps to Restore (On Failure/if Needed)

1. Go to Organization 🡪 Carrier 🡪 Object Initialization Rule Administration. Delete the Carrier CCD Change Notice rule.
2. Go to Organization 🡪 Carrier 🡪 Life Cycle Template Administration. Delete the Carrier CCD Change Notice Life Cycle
3. From a Windchill shell, run the following commands to load the workflows:

windchill wt.load.LoadFromFile -d /apps/ptc/Windchill/loadFiles/ext/carrier/wc/workflows/CarrierChangeActvityWorkflow\_ESR26584\_02.xml –u carrierorgadmin –p ptc -CONT\_PATH \”/wt.inf.container.OrgContainer=Carrier\”

windchill wt.load.LoadFromFile -d /apps/ptc/Windchill/loadFiles/ext/carrier/wc/workflows/CarrierCCDChangeNoticeProcess\_ESR26584\_02.xml –u carrierorgadmin –p ptc -CONT\_PATH \”/wt.inf.container.OrgContainer=Carrier\”

windchill wt.load.LoadFromFile -d /apps/ptc/Windchill/loadFiles/ext/carrier/wc/workflows/CarrierRLCSChangeNoticeProcess\_ESR26584\_02.xml –u carrierorgadmin –p ptc -CONT\_PATH \”/wt.inf.container.OrgContainer=Carrier\”

1. Restore the original source and class files:

/apps/ptc/Windchill/codebase/ext/carrier/wc/reports/ PartBOMReportHelper.class

/apps/ptc/Windchill/codebase/ext/carrier/wc/reports/PartBOMReportProcessor.class

/apps/ptc/Windchill/codebase/ext/carrier/wc/reports/ RepresentableHelper.class

/apps/ptc/Windchill/codebase/ext/carrier/wc/reports/entity/PartStructureBean.class

/apps/ptc/Windchill/src/ext/carrier/wc/reports/ PartBOMReportHelper.java

/apps/ptc/Windchill/src/ext/carrier/wc/reports/PartBOMReportProcessor.java

/apps/ptc/Windchill/src/ext/carrier/wc/reports/ RepresentableHelper.java

/apps/ptc/Windchill/src/ext/carrier/wc/reports/entity/PartStructureBean.java

1. Restore the original wc.xconf file and run the following command from a Windchill shell:

xconfmanager - p

1. Delete /apps/ptc/Windchill/loadFiles/ext/carrier/common/typedef/WT PART directory and restore the original /apps/ptc/Windchill/loadFiles/ext/carrier/common/typedef/WT PART directory. Go to the Type and attribute manager, edit the WTPart and delete the Drawing Number attribute.

# Issues encounter during deployments (If any)

Details of any issues faced during deployment should be captured over here.

# Server Administration procedures

The detailed steps of different server administration procedures are captured and available in Production server administration document available at PDS Site (link) and Carrier site (link).This includes procedures on taking different component backups, stopping and starting different components, steps to clear caches and server restore procedures.

# Contacts

Details of all the contacts who are involved in different phases of deployments will be listed over here.