



PTC ILM Interoperable Release Management User Guide



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Last Updated: May 2023

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Learning about PTC ILM Release Management

Positive Train Control Interoperable Lifecycle Management (PTC ILM) is a platform that enables the railroad industry to manage the Interoperable Configuration Items (ICIs) and Interoperable Coordinated Deployment Items (ICDIs) that comprise the interoperable aspects of PTC throughout their lifecycle.

Important: Refer to the [PTC ILM Getting Started Guide](#) for more introductory information about PTC ILM, including an overview, information about user roles, and login instructions.

PTC ILM Interoperable Release Management is an application module within the PTC ILM application that enables users to view and manage PTC Interoperable System Releases, ensuring that industry-wide standards for ICIs are followed.

Note: You must have one of the following roles to use PTC ILM Interoperable Release Management.

- **Standard User**
Standard User access is read only.
- **Railroad Release Manager**
Railroad Release Managers can create copies of an input draft and view PTC Interoperable System Releases.
- **Interoperable Release Manager**
Interoperable Release Managers can initiate and update new PTC Interoperable System Releases and enter approvals for PTC Interoperable System Releases. Users with this role have access to all menus.
- **Railroad PTC ILM System Administrator**
Railroad PTC ILM System Administrators have access to all menus.

Overview

Interoperable Release Management is the process by which an Interoperable Release Manager defines the permissible versions of ICIs that are included in a PTC Interoperable System Release and sets the deployment date range (compliance date and retirement date). The release begins in *Draft* status and is advanced to *Approved* status once the release is approved. When an approved release reaches its compliance date, the release can be updated to *Active* status. Once an active release reaches its retirement date, PTC ILM prompts the Interoperable Release Manager to set the release to *Retired* status or modify the retirement date.

An Interoperable Configuration Item (ICI) is a PTC artifact that has been defined to be managed at an industry level to support PTC interoperability. Refer to the [PTC ILM Interoperable Configuration Management User Guide](#) for information about working with ICIs.

An Interoperable Change Request (ICR) is the electronic entity used to facilitate the approval of a new permissible version or the mandatory decommissioning of a PTC artifact that will be used in

interoperable service. An Interoperable Deployment Request (IDR) is a request to deploy a permissible ICI version to your railroad. Refer to the [PTC ILM Interoperable Change Management User Guide](#) for information about working with ICRs and IDRs.

When you select the Interoperable Release Management icon from the ILM Application Suite page as described in the [PTC ILM Getting Started Guide](#), the Interoperable Release Management application module opens and displays the Release Management Dashboard page.

This document describes how to use the PTC ILM Interoperable Release Management application module in the following sections:

- “[Working with the Release Management Dashboard](#)” on page 3
- “[Creating a New Interoperable Release Plan](#)” on page 6
- “[Viewing Release Information](#)” on page 7
- “[Editing a Release](#)” on page 12
- “[Copying a Release](#)” on page 20
- “[Obtaining Release Input](#)” on page 21
- “[Comparing Release Versions](#)” on page 25
- “[Viewing Release Activity](#)” on page 26

Accessing the Railinc Customer Success Center

The Railinc Customer Success Center (CSC) provides reliable, timely, and high-level support for Railinc customers. Representatives are available to answer calls and respond to emails from 7:00 a.m. to 7:00 p.m. Eastern time, Monday through Friday, and provide on-call support via pager for all other hours to ensure support 24 hours a day, 7 days a week. Contact us toll-free by phone at 877-RAILINC (1-877-724-5462) or send an email directly to csc@railinc.com.

Working with the Release Management Dashboard

The PTC ILM Release Management Dashboard page (see [Exhibit 1](#)) is displayed when you select the Interoperable Release Management icon from the ILM Application Suite page.

Exhibit 1. The Release Management Dashboard Page

Version	Status	Compliance Date	Retirement Date	Last Modified	Modified By
30.0-Draft10.input	Draft	05/01/2023	07/31/2023	04/24/2023 15:07:50	
29.0.17.1	Approved	04/01/2023	06/30/2023	04/13/2023 13:24:01	
28.0.28.0	Active	02/01/2023	05/01/2023	05/04/2023 10:21:08	
27.0.45.2	Retired	02/21/2023	02/01/2023	02/23/2023 15:43:49	
12.0-Draft7	Draft	04/17/2023		04/17/2023 12:56:44	
11.0-Draft10	Draft			04/03/2023 09:30:47	

The Release Management Dashboard lists the latest version of each release and displays a grid containing the following columns of information for each release:

Version	The version of the release.
Status	The status of the release (Draft, Approved, Active, or Retired).
Compliance Date	The date by which the release must be implemented.
Retirement Date	The date on which the release is scheduled to be retired (this date must be after the compliance date).
Last Modified	The date and time when the release was last modified.
Modified By	The user who last modified the release.

Note: You can select the **Revision History** toggle at the top right of the grid to view all archived releases.

You can [sort](#), [filter](#) and [export](#) the information displayed in the grid.

In addition to showing the above columns of information, the Release Management Dashboard contains the following buttons, which provide access to additional functionality (your access depends on your role):

- Create Release Plan – enables you to create a release (see “[Creating a New Interoperable Release Plan](#)” on page 6).

- View – enables you to view detailed information about a release and, if you have the required permissions, advance a release to the next status (see “[Viewing Release Information](#)” on page 7).
- Edit – enables you to make changes to a release (see “[Editing a Release](#)” on page 12).
- Copy – enables you make a copy of a release (see “[Copying a Release](#)” on page 20).
- Advance to Input – locks the release in draft status and adds “.input” to the version name. Railroads can then create a copy of the input to provide their feedback. This button is only available to Interoperable Release Managers (see “[Obtaining Release Input](#)” on page 21).
- Compare – enables you to compare up to three release versions (see “[Comparing Release Versions](#)” on page 25).
- View Activity – enables you to view the history of release-related activity (see “[Viewing Release Activity](#)” on page 26).

Sorting and Filtering Release Information

Release information is displayed in a grid, which contains rows and columns of information.

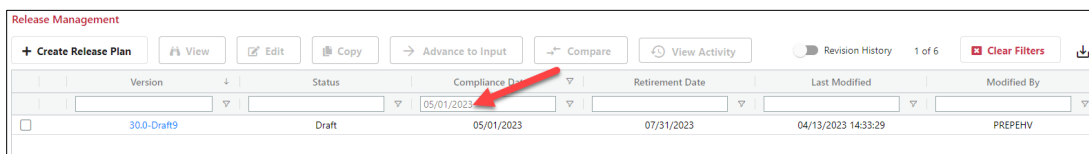
To see all the rows in the grid, use the vertical scroll bar. Use the horizontal scroll bar to view any columns of data that exceed the width of the viewable area.

You can sort the displayed information by column in ascending or descending order. Simply select the column heading for the column you want to sort. An arrow (↑ or ↓) is displayed next to the heading to indicate the sort order. Select the column heading again to switch the sort order.

You can filter the information displayed in the grid to only show rows containing information you need to see. Each column contains a filter field directly below the column heading.

To apply a filter to a column, type a word or phrase you want to see in a column’s filter field. The displayed release information is narrowed to only show rows that contain the filtered word or phrase. A filter icon (▼) is displayed in the column heading to remind you about the filter (see [Exhibit 2](#)).

Exhibit 2. The Release Management Dashboard Grid (showing a Column Filter entered)



The screenshot shows the Release Management Dashboard interface. At the top, there are buttons for '+ Create Release Plan', 'View', 'Edit', 'Copy', 'Advance to Input', 'Compare', and 'View Activity'. Below these buttons is a table with columns: Version, Status, Compliance Date, Retirement Date, Last Modified, and Modified By. The 'Compliance Date' column has a filter icon (▼) and a filter field containing '05/01/2023'. A red arrow points to this filter field. The table shows one row with the following data: Version: 30.0-Draft9, Status: Draft, Compliance Date: 05/01/2023, Retirement Date: 07/31/2023, Last Modified: 04/13/2023 14:33:29, Modified By: PREPEHV. There is a 'Clear Filters' button in the top right corner.

Version	Status	Compliance Date	Retirement Date	Last Modified	Modified By
30.0-Draft9	Draft	05/01/2023	07/31/2023	04/13/2023 14:33:29	PREPEHV

Tip! You can apply filters to multiple columns at once.

To remove filters, select the **Clear Filters** button or delete the characters from the filter field.

Note: Any changes that you make to the grid using sorting or filters are reflected if the data is exported.

Exporting Release Information

You can export the information displayed in the grid to a Comma Separated Value (CSV) file, which can then be opened in a spreadsheet application.

Once you have the information you want to export displayed in the grid, select the Export to CSV icon (📄) to download the grid contents to a CSV file (see [Exhibit 3](#)).

Exhibit 3. The Grid (Showing Data to be Exported)

Release Management

+ Create Release Plan

👁 View

✎ Edit

📄 Copy

➔ Advance to Input

⚖ Compare

🕒 View Activity

🕒 Revision History 3 of 6

🗑 Clear Filters

📄

	Version	Status	Compliance Date	Retirement Date	Last Modified	Modified By
<input type="checkbox"/>	30.0-Draft9	Draft	05/01/2023	07/31/2023	04/13/2023 14:33:29	PREPEHV
<input type="checkbox"/>	12.0-Draft1	Draft			04/14/2023 10:09:13	BSCXK02
<input type="checkbox"/>	11.0-Draft5	Draft			04/03/2023 09:30:47	PREPEHV

Note: Any changes that you make to the grid using sorting or filters are reflected in the export.

Once the results are exported to a CSV file, you can then view them in a spreadsheet application (see [Exhibit 4](#)).

Exhibit 4. Spreadsheet Application (Showing Exported Data)

	A	B	C	D	E	F	G
1		Version	Status	Compliance Date	Retirement Date	Last Modified	Modified By
2	N	30.0-Draft9	Draft	5/1/2023	7/31/2023	4/13/2023 14:33	PREPEHV
3	N	12.0-Draft1	Draft			4/14/2023 10:09	BSCXK02
4	N	11.0-Draft5	Draft			4/3/2023 9:30	PREPEHV

Creating a New Interoperable Release Plan

PTC ILM Interoperable Release Management enables Interoperable Release Managers to create new release plans (a list of ICIs and permissible versions that informs railroads about the requirements for compliance). To begin creating a new release plan, select the **Create Release Plan** button from the Dashboard. The Create Release Plan popup is displayed (see [Exhibit 5](#)).

Exhibit 5. Create Release Plan Popup

The screenshot shows a web-based form titled "Create Release Plan". Under the "General Information" tab, there are three input fields: "Major.Minor Version" (marked with a red asterisk), "Compliance Date" (with a calendar icon), and "Retirement Date" (with a calendar icon). To the right of these is a large text area for "Release Comment" with a "0 / 1000" character count. At the bottom right are "Cancel" and "Create Release Plan" buttons.

In the Major.Minor Version field, type a unique major version number for the release followed by a period and the minor version number for the release (e.g., 10.1).

Note: This is the only field that is required to be completed to create a new release plan.

Optionally, select the calendar icon (📅) in the Compliance Date field and select the date by which railroads must implement the release plan.

Optionally, select the calendar icon (📅) in the Retirement Date field and select the date on which the release plan is scheduled to be retired.

Optionally, enter a comment to describe the release plan.

Select **Create Release Plan** to create the release plan (or select **Cancel** to cancel creating the release).

The release plan is created and is added to the list of release plans in the Dashboard with the status of "Draft". A draft number is automatically appended to the major version number (for example, "3-Draft1", where "3" is the major version number and "Draft1" is the draft number).

Note: "Draft" appended to the major release plan version number indicates that the release plan is editable. PTC ILM automatically increments the draft number each time the draft release plan is saved.

The next step is to edit the release plan and add ICI information (see "[Editing a Release](#)" on page 12 for more information).

Viewing Release Information

PTC ILM Interoperable Release Management enables all users to view detailed information about releases. While viewing the list of releases in the Dashboard, select the checkbox to the left of the release version for which you want to view detailed release information, and then select the **View** button. The View Release popup is displayed. This popup contains the following three tabs:

[General Information](#)

[ICI Information](#)

[Release History](#)

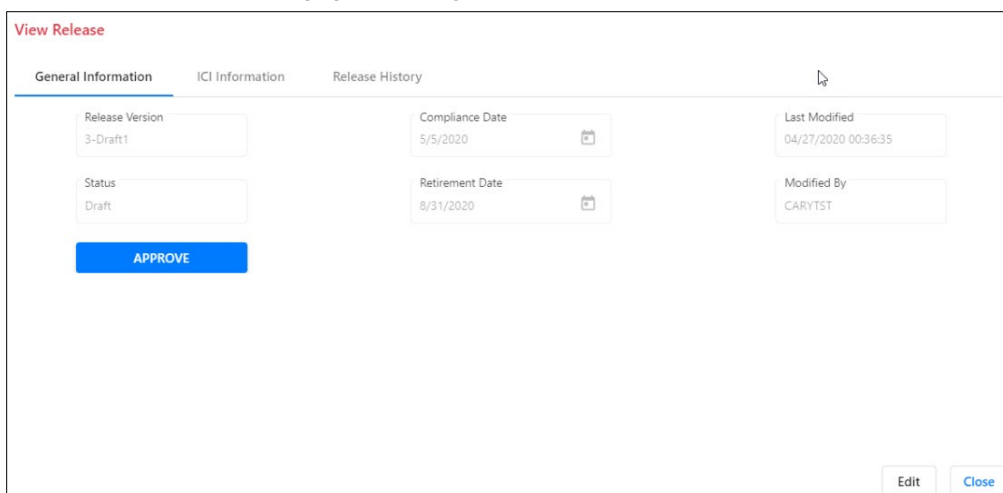
Note: If you have the required permission, a button (for example, **Approve**) may be displayed on the General Information tab, enabling you to advance the release to the next status.

Select **Close** when you have finished viewing this popup.

Viewing General Information

The General Information tab (see [Exhibit 6](#)) is the default tab for the View Release popup.

Exhibit 6. View Release Popup (Showing the General Information Tab)



The screenshot shows a 'View Release' popup window with three tabs: 'General Information' (selected), 'ICI Information', and 'Release History'. The 'General Information' tab displays the following fields:

Field	Value
Release Version	3-Draft1
Status	Draft
Compliance Date	5/5/2020
Retirement Date	8/31/2020
Last Modified	04/27/2020 00:36:35
Modified By	CARYTST

Below the fields is a blue 'APPROVE' button. At the bottom right of the popup are 'Edit' and 'Close' buttons.

The General Information tab displays the following fields, which are described in “[Working with the Release Management Dashboard](#)” on page 3:

Release Version
Status
Compliance Date
Retirement Date
Last Modified
Modified By

Note: If you have the required permission, you can select **Edit** at the bottom right to enter edit mode, which enables you to make changes to field values.

Viewing ICI Information

Select **ICI Information** on the View Release popup to view the ICI Information tab (see [Exhibit 7](#)).

Note: Only users with the Interoperable Release Manager role can change information on this tab.

Exhibit 7. View Release Popup (Showing the ICI Information Tab)

View Release: 30.0-Draft12

General Information **ICI Information** Release History

222 of 222 Clear Filters Download

ICI Name	Status	Adoption	Compliance Scope	Permissible Versions	Comment
AAR: S-9058 ITC Ticket Management Requirements and Use Cases	Adopted	04/01/2020	Railroads Deploying the ICI	test	
> AAR: M-9155 Locomotive Command and Control Module (LCCM) - Functional Requirements	Adopted	03/31/2020	Railroads Deploying the ICI	4.2	
AAR: M-9453 System Management Asset User Interface Requirements	Adopted	04/01/2020	All Railroads		
> AAR: RP-9457 Master Test Strategy	Adopted	04/01/2020	Railroads Deploying the ICI	1.0 2.0	
AAR: RP-9511 Field Survey and Validation Best Practice	Adopted	04/01/2020	Railroads Deploying the ICI		
AAR: S-4047 PTC - Locomotive Air Brake Interface Requirements	Adopted	04/01/2020	Railroads Deploying the ICI		
AAR: S-9001 ITC System Reference Architecture	Adopted	04/01/2020	All Railroads		
AAR: S-9010 Data Protection	Adopted	04/01/2020	Railroads Deploying the ICI		

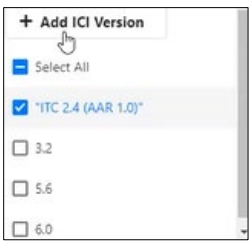
Lock Release Edit Close

The ICI Information tab contains a grid that displays information about all adopted and proposed ICIs.

If you have the required permission, you can select the **Edit** button to enter edit mode, which enables you to make changes. Then, select the edit icon (✎) in the Permissible Versions column for each ICI associated with this release and indicate the permissible version(s).

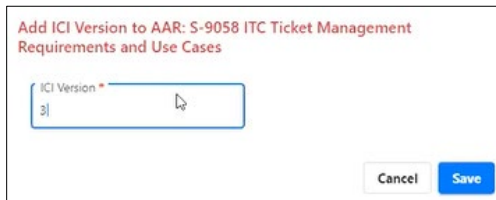
If the permissible version is not listed, select **Add ICI Version** to add a new ICI version to the list (see [Exhibit 8](#)).

Exhibit 8. Selecting Add ICI Version



After you select **Add ICI Version**, a popup is displayed (see [Exhibit 9](#)).

Exhibit 9. Entering a New Version Number



The screenshot shows a dialog box titled "Add ICI Version to AAR: S-9058 ITC Ticket Management Requirements and Use Cases". Inside the dialog, there is a text input field labeled "ICI Version" with a red asterisk indicating it is required. The field contains the number "3". To the right of the input field is a mouse cursor icon. At the bottom right of the dialog are two buttons: "Cancel" and "Save".

Enter the new ICI version number and select **Save**. The new ICI version number is automatically selected as a permissible version.

Note: PTC ILM also adds the new ICI version number to the list of ICI versions for this ICI in the Configuration Management Database (CMDB) with a status of “Pending Confirmation”.

The Interoperable Change Manager can also select the edit icon (✎) in the Comment column and enter an ICI comment (see [Exhibit 10](#)).

Exhibit 10. Entering an ICI Comment



The screenshot shows a dialog box titled "Edit ICI Comment". Below the title bar, it says "AAR: S-9058 ITC Ticket Management Requirements and Use Cases". The main area of the dialog is a large text input field labeled "ICI Comment" with a vertical cursor. At the bottom right of the input field, there is a character count "0 / 1000". At the bottom of the dialog are two buttons: "Cancel" and "Update Comment".

Enter the comment and select **Update Comment**.

If the release has multiple permissible versions of an ICI, an arrow (➤) is indicated at the left of the ICI list (see [Exhibit 11](#)).

Exhibit 11. ICI Information Tab (Showing Multiple Permissible Versions)

General Information ICI Information Release History						
222 of 222 Clear Filters						
ICI Name	Status	Adoption	Compliance Scope	Permissible Versions	Comment	
AAR: S-9058 ITC Ticket Management Requirements and Use Cases	Adopted	04/01/2020	Railroads Deploying the ICI		Christy testing the material change checkbox location change digit incrementing.	
> AAR: M-9155 Locomotive Command and Control Module (LCCM) - Functional Requirements	Adopted	03/31/2020	Railroads Deploying the ICI	4.2		
AAR: M-9457 System Management User Interface Requirements	Adopted	04/01/2020	All Railroads			
> AAR: RP-9457 Master Test Strategy	Adopted	04/01/2020	Railroads Deploying the ICI	1.0 2.0 3.0	test	
AAR: RP-9511 Field Survey and Validation Best Practice	Adopted	04/01/2020	Railroads Deploying the ICI			
AAR: S-4047 PTC - Locomotive Air Brake Interface Requirements	Adopted	04/01/2020	Railroads Deploying the ICI			
AAR: S-9001 ITC System Reference Architecture	Adopted	04/01/2020	All Railroads			
AAR: S-9010 Data Protection	Adopted	04/01/2020	Railroads Deploying the ICI			

Select the arrow to expand the list. You can then select the edit icon for each version of the ICI and add a comment for each version of the ICI (see [Exhibit 12](#)).

Exhibit 12. Entering an ICI Version Comment

Edit ICI Version Comment

AAR: S-9058 ITC Ticket Management Requirements and Use Cases: Version "ITC 2.4 (AAR 1.0)"

ICI Version Comment
this version is applicable

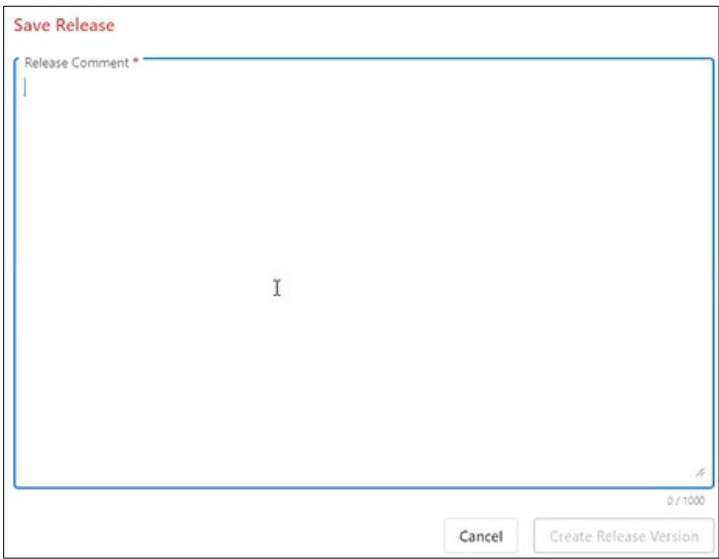
28 / 1000

Cancel Update Comment

Enter the comment and select **Update Comment**.

Once you have finished making changes, select **Save** at the bottom right. The Save Release popup is displayed, which prompts you to enter a mandatory release comment (see [Exhibit 13](#)).

Exhibit 13. Save Release Popup



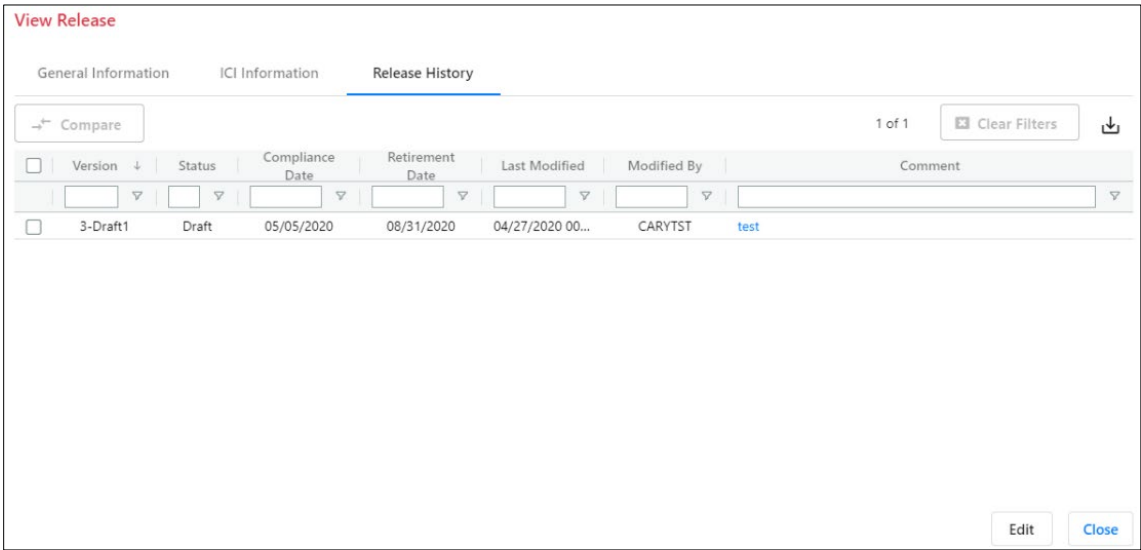
The 'Save Release' popup window features a large text area for a 'Release Comment' with a character count of 0/1000. At the bottom, there are 'Cancel' and 'Create Release Version' buttons.

Once you have entered the release comment, select **Create Release Version**. The release is saved, and the draft version is incremented.

Viewing the Release History

Select **Release History** on the View Release popup to view the Release History tab (see [Exhibit 14](#)).

Exhibit 14. View Release Popup (Showing the Release History Tab)



The 'View Release' popup displays the 'Release History' tab. It includes a 'Compare' button, a '1 of 1' indicator, and a 'Clear Filters' button. Below these is a table with columns for Version, Status, Compliance Date, Retirement Date, Last Modified, Modified By, and Comment. The table contains one row for version 3-Draft1.

Version	Status	Compliance Date	Retirement Date	Last Modified	Modified By	Comment
3-Draft1	Draft	05/05/2020	08/31/2020	04/27/2020 00...	CARYTST	test

The Release History tab contains a grid that displays all versions of the release and all of the release comments.

Editing a Release

If you have the required permissions, you can edit any release version and make modifications.

Note: Only users with the Interoperable Release Manager role can edit release information unless the release version is in input mode, which enables Railroad Release Managers to copy and edit a draft for their railroad (see “[Obtaining Release Input](#)” on page 21).

On the Release Management Dashboard, first select the checkbox at the left of the release version that you want to edit. Then, select **Edit**. The Edit Release popup is displayed (see [Exhibit 15](#)).

Notes:

1. The Edit Release popup is identical to the View Release popup except that you are immediately placed in edit mode, which enables you to make changes. (To enter edit mode from the View Release popup, you are required to select the **Edit** button at the bottom right).
2. To leave Edit mode and switch to View mode, select **Cancel**. See “[Viewing Release Information](#)” on page 7 for more information.

Exhibit 15. Edit Release Popup

Edit Release

General Information ICI Information Release History

Release Version 3-Draft1	Compliance Date 5/5/2020	Last Modified 04/27/2020 00:36:35
Status Draft	Retirement Date 8/31/2020	Modified By CARYTST

Cancel Save

This popup contains the following three tabs, which are described in detail in the sections below:

[General Information](#)

[ICI Information](#)

[Release History](#)

Editing General Information

The General Information tab (see [Exhibit 16](#)) is the default tab for the Edit Release popup.

Exhibit 16. Edit Release Popup (Showing the General Information Tab)

The screenshot shows a web application window titled "Edit Release". It has three tabs: "General Information" (selected), "ICI Information", and "Release History". The "General Information" tab contains several input fields arranged in a grid. The fields and their values are: "Release Version" with "3-Draft1", "Status" with "Draft", "Compliance Date" with "5/1/2020" and a calendar icon, "Retirement Date" with "8/31/2020" and a calendar icon, "Last Modified" with "04/27/2020 00:36:35", and "Modified By" with "CARYTST". At the bottom right of the form are two buttons: "Cancel" and "Save".

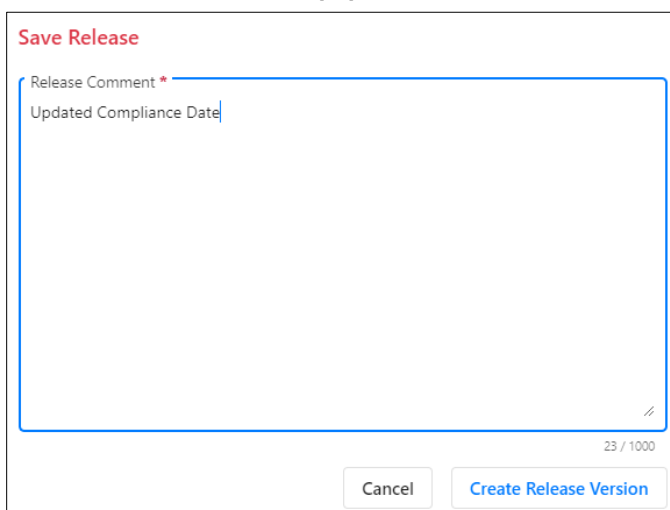
The General Information tab displays the following fields, which are described in “[Working with the Release Management Dashboard](#)” on page 3:

Release Version
 Status
 Compliance Date
 Retirement Date
 Last Modified
 Modified By

Make any needed changes to field values.

Once you have finished making changes, select **Save** at the bottom right. The Save Release popup is displayed, which prompts you to enter a mandatory release comment (see [Exhibit 17](#)).

Exhibit 17. Save Release Popup



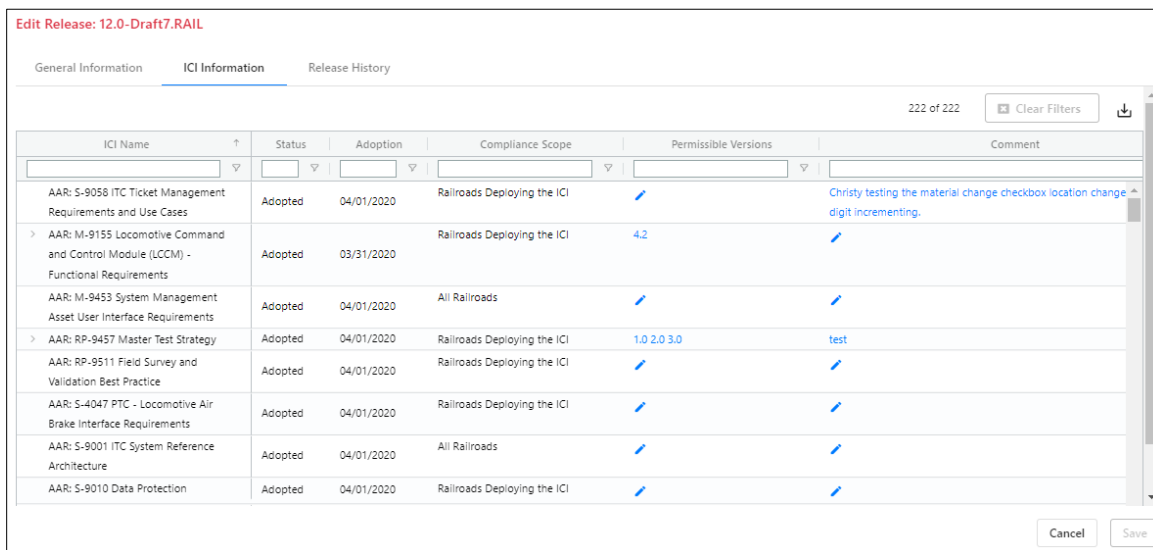
The 'Save Release' popup contains a text area for 'Release Comment *' with the text 'Updated Compliance Date' entered. At the bottom right, it shows '23 / 1000' characters. At the bottom, there are two buttons: 'Cancel' and 'Create Release Version'.

Once you have entered the release comment, select **Create Release Version**. The release is saved, and the draft version is incremented.

Editing ICI Information

Select **ICI Information** on the Edit Release popup to edit the ICI Information tab (see [Exhibit 18](#)).

Exhibit 18. Edit Release Popup (Showing the ICI Information Tab)



The 'Edit Release: 12.0-Draft7.RAIL' popup shows the 'ICI Information' tab. It features a table with columns: ICI Name, Status, Adoption, Compliance Scope, Permissible Versions, and Comment. The table lists several ICI entries, including AAR: S-9058 ITC Ticket Management Requirements and Use Cases, AAR: M-9155 Locomotive Command and Control Module (LCCM) - Functional Requirements, AAR: M-9453 System Management Asset User Interface Requirements, AAR: RP-9457 Master Test Strategy, AAR: RP-9511 Field Survey and Validation Best Practice, AAR: S-4047 PTC - Locomotive Air Brake Interface Requirements, AAR: S-9001 ITC System Reference Architecture, and AAR: S-9010 Data Protection. The table also includes a 'Comment' column with a text area for each row. At the bottom right, there are 'Cancel' and 'Save' buttons.

ICI Name	Status	Adoption	Compliance Scope	Permissible Versions	Comment
AAR: S-9058 ITC Ticket Management Requirements and Use Cases	Adopted	04/01/2020	Railroads Deploying the ICI		Christy testing the material change checkbox location change digit incrementing.
AAR: M-9155 Locomotive Command and Control Module (LCCM) - Functional Requirements	Adopted	03/31/2020	Railroads Deploying the ICI	4.2	
AAR: M-9453 System Management Asset User Interface Requirements	Adopted	04/01/2020	All Railroads		
AAR: RP-9457 Master Test Strategy	Adopted	04/01/2020	Railroads Deploying the ICI	1.0 2.0 3.0	test
AAR: RP-9511 Field Survey and Validation Best Practice	Adopted	04/01/2020	Railroads Deploying the ICI		
AAR: S-4047 PTC - Locomotive Air Brake Interface Requirements	Adopted	04/01/2020	Railroads Deploying the ICI		
AAR: S-9001 ITC System Reference Architecture	Adopted	04/01/2020	All Railroads		
AAR: S-9010 Data Protection	Adopted	04/01/2020	Railroads Deploying the ICI		

The ICI Information tab displays information about all adopted and proposed ICIs.

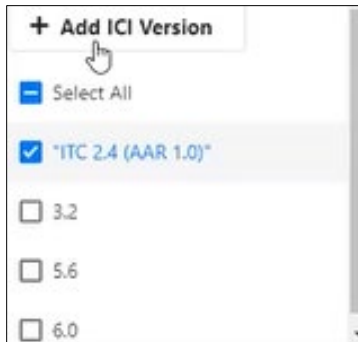
Note: If a PTC ILM release draft is created including an ICI, and then that ICI is retired, viewing the same draft shows the correct status of the ICI as “Retired”. It is also grayed out and does not allow you to edit any properties of that ICI. If you edit the draft version and create a new draft version or if the release is directly approved, the retired ICI is removed. This helps you to know

that the ICI was retired (for example, there could be useful comments associated with the ICI). The retired ICI is automatically removed from the next PTC release version.

As needed, select the edit icon (✎) in the Permissible Versions column for each ICI associated with this release and indicate the permissible version(s).

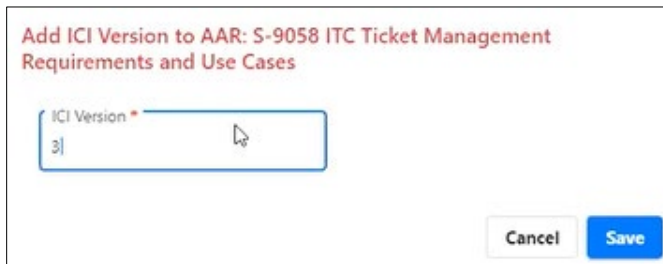
If the permissible version is not listed, select **Add ICI Version** to add a new ICI version to the list (see [Exhibit 19](#)).

Exhibit 19. Selecting Add ICI Version



After you select **Add ICI Version**, a popup is displayed (see [Exhibit 20](#)).

Exhibit 20. Entering a New Version Number



Enter the new ICI version number and select **Save**. The new ICI version number is automatically selected as a permissible version.

Note: PTC ILM also adds the new ICI version number to the list of ICI versions for this ICI in the Configuration Management Database (CMDB) with a status of “Pending Confirmation”.

You can also select the edit icon (✎) in the Comment column to the right and enter an ICI comment (see [Exhibit 21](#)).

Exhibit 21. Entering an ICI Comment

Edit ICI Comment

AAR: S-9058 ITC Ticket Management Requirements and Use Cases

ICI Comment

0 / 1000

Cancel

Update Comment

Enter the comment and select **Update Comment**.

If the release has multiple permissible versions of an ICI, an arrow (>) is indicated at the left of the ICI list (see [Exhibit 22](#)).

Exhibit 22. ICI Information Tab (Showing Multiple Permissible Versions)

Edit Release: 12.0-Draft7.RAIL

General Information

ICI Information

Release History

222 of 222

Clear Filters

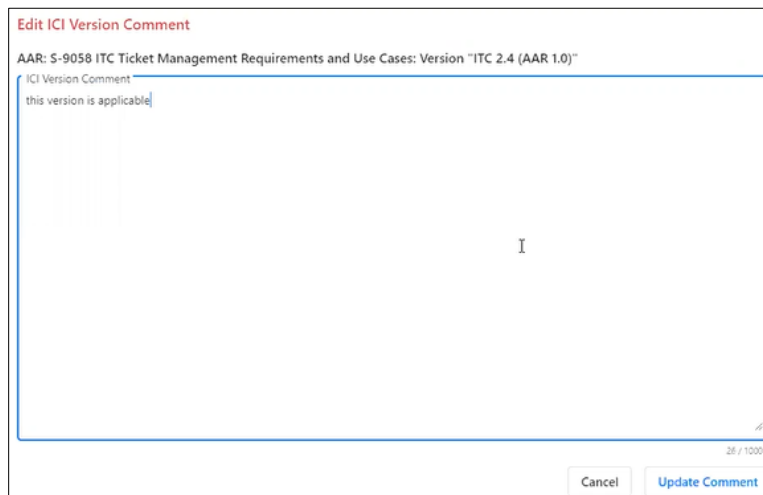
ICI Name	Status	Adoption	Compliance Scope	Permissible Versions	Comment
AAR: S-9058 ITC Ticket Management Requirements and Use Cases	Adopted	04/01/2020	Railroads Deploying the ICI		Christy testing the material change checkbox location change digit incrementing.
> AAR: M-9155 Locomotive Command and Control Module (LCCM) - Functional Requirements	Adopted	03/31/2020	Railroads Deploying the ICI	4.2	
AAR: M-9457 System Management User Interface Requirements	Adopted	04/01/2020	All Railroads		
> AAR: RP-9457 Master Test Strategy	Adopted	04/01/2020	Railroads Deploying the ICI	1.0 2.0 3.0	test
AAR: RP-9511 Field Survey and Validation Best Practice	Adopted	04/01/2020	Railroads Deploying the ICI		
AAR: S-4047 PTC - Locomotive Air Brake Interface Requirements	Adopted	04/01/2020	Railroads Deploying the ICI		
AAR: S-9001 ITC System Reference Architecture	Adopted	04/01/2020	All Railroads		
AAR: S-9010 Data Protection	Adopted	04/01/2020	Railroads Deploying the ICI		

Cancel

Save

Select the arrow to expand the list. You can then select the edit icon for each version of the ICI and add a comment for each version of the ICI (see [Exhibit 23](#)).

Exhibit 23. Entering an ICI Version Comment

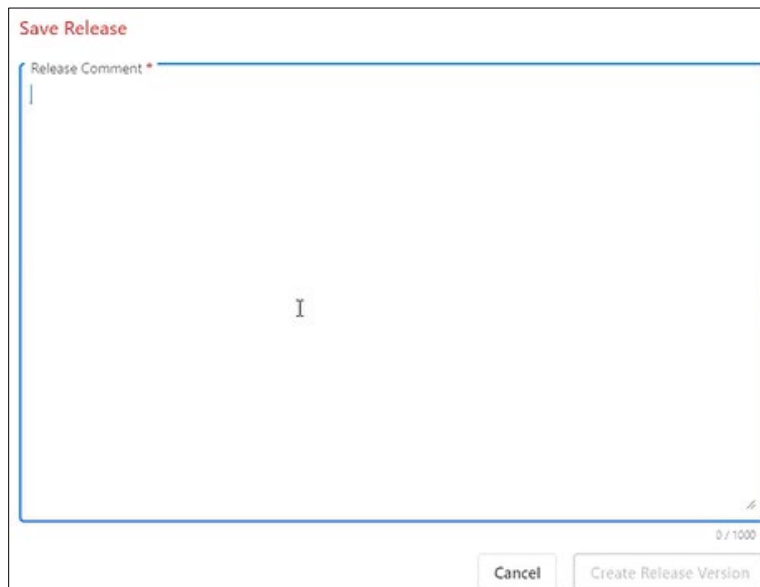


The screenshot shows a dialog box titled "Edit ICI Version Comment" in red text. Below the title, the text "AAR: S-9058 ITC Ticket Management Requirements and Use Cases: Version 'ITC 2.4 (AAR 1.0)'" is displayed. The main area is a large text input field with a blue border. Inside the field, the text "ICI Version Comment" is followed by "this version is applicable" on the next line. A vertical scrollbar is visible on the left side of the text area. At the bottom right of the text area, there is a small icon of a document with a pencil. Below the text area, there is a character count "28 / 1000". At the bottom of the dialog box, there are two buttons: "Cancel" and "Update Comment".

Enter the comment and select **Update Comment**.

Once you have finished making changes, select **Save** at the bottom right. The Save Release popup is displayed, which prompts you to enter a mandatory release comment (see [Exhibit 24](#)).

Exhibit 24. Save Release Popup



The screenshot shows a dialog box titled "Save Release" in red text. Below the title, the text "Release Comment *" is displayed. The main area is a large text input field with a blue border. Inside the field, there is a vertical scrollbar and a cursor. At the bottom right of the text area, there is a small icon of a document with a pencil. Below the text area, there is a character count "0 / 1000". At the bottom of the dialog box, there are two buttons: "Cancel" and "Create Release Version".

Once you have entered the release comment, select **Create Release Version**. The release is saved, and the draft version is incremented.

Viewing the Release History

Select **Release History** on the Edit Release popup to view the Release History tab (see [Exhibit 25](#)).

Exhibit 25. Edit Release Popup (Showing the Release History Tab)

Edit Release

General Information ICI Information **Release History**

Compare 2 of 2 Clear Filters Download

<input type="checkbox"/>	Version ↓	Status	Compliance Date	Retirement Date	Last Modified	Modified By	Comment
<input type="checkbox"/>	3-Draft2	Draft	05/01/2020	08/31/2020	04/27/2020 10...	CARYTST	Updated Compliance Date
<input type="checkbox"/>	3-Draft1	Draft	05/05/2020	08/31/2020	04/27/2020 00...	CARYTST	test

Cancel Save

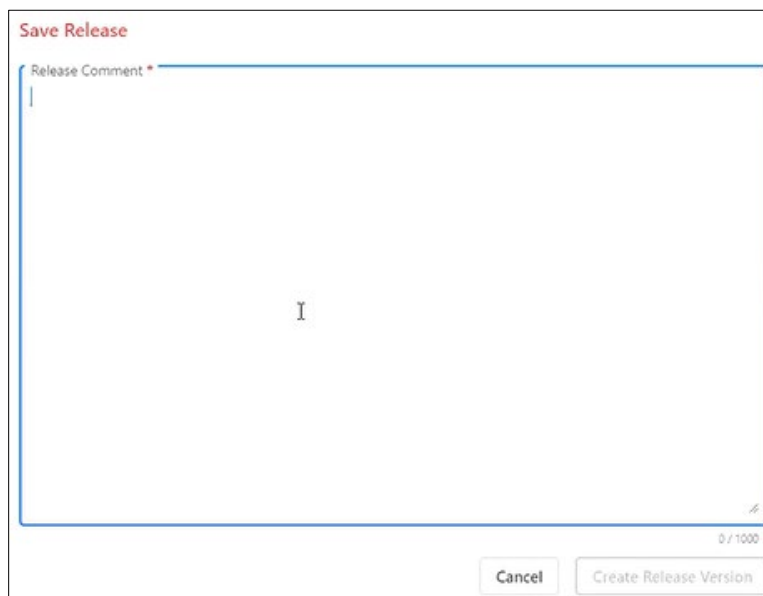
The Release History tab contains a grid that displays all versions of the release and all of the release comments.

You can select the checkboxes to the left of two or three releases and then select the **Compare** button to compare the releases. See [“Comparing Release Versions”](#) on page 25 for more information.

Although there is no information that you can change on the Release History tab, the Save and Cancel buttons apply to the entire Edit Release popup. If you made changes on one of the other tabs, select **Save** at the bottom right. The Save Release popup is displayed, which prompts you to enter a mandatory release comment (see [Exhibit 26](#)).

Note: If you don’t want to save your changes, select **Cancel**.

Exhibit 26. Save Release Popup



The image shows a 'Save Release' popup dialog box. It has a title bar with the text 'Save Release' in red. Below the title bar is a large text area labeled 'Release Comment *' with a red asterisk. The text area is empty, with a cursor visible. At the bottom right of the text area, there is a small icon of a notepad and pencil. Below the text area, there are two buttons: 'Cancel' and 'Create Release Version'. A character count '0 / 1000' is displayed at the bottom right of the dialog box.

Once you have entered the release comment, select **Create Release Version**. The release is saved, and the draft version is incremented.

Copying a Release

You can copy any release version and make a new version.

On the Release Management Dashboard, first select the checkbox at the left of the release version that you want to copy. Then, select **Copy**. The Copy Release popup is displayed (see [Exhibit 27](#)).

Exhibit 27. Copy Release Popup

The screenshot shows a modal window titled "Copy Release 3-Draft1". It contains two input fields: "Major Version *" and "Release Comment". The "Major Version" field is highlighted with a red border and has a red "Required value" message below it. The "Release Comment" field is a larger text area. At the bottom right of the text area, there is a character count "0 / 1000". At the bottom of the modal, there are two buttons: "Cancel" and "Copy Release".

Enter a new major version and a release comment. Next, select **Copy Release**.

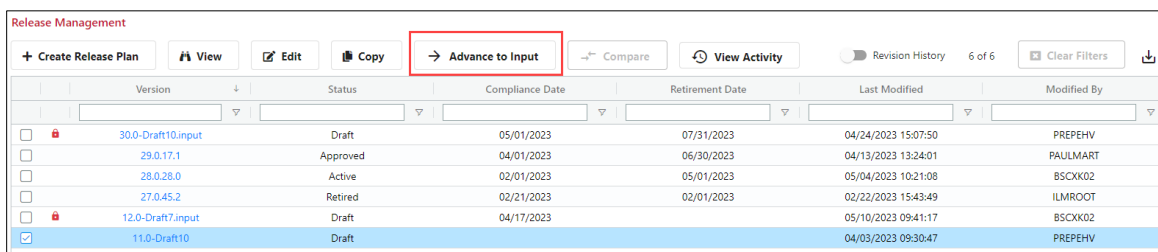
PTC ILM copies all the versions of all of the ICIs, ICI comments, and ICI version comments and creates a new draft release version based on the release version you selected.

Obtaining Release Input from Railroads

Once a draft release is ready for feedback from railroads, the Interoperable Release Manager can advance the release to input mode, which locks the release for changes and adds “.input” to the version name. Railroads can then create a copy of the input to provide their feedback.

On the Release Management Dashboard, first select the checkbox(es) at the left of the draft release version(s) that you want to advance to input. Then, select **Advance to Input** (see [Exhibit 28](#)).

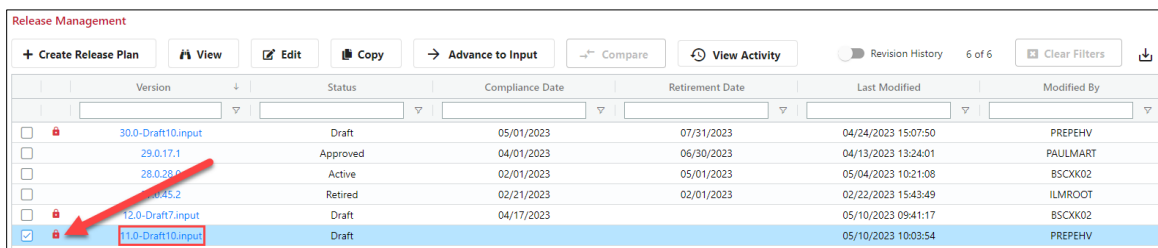
Exhibit 28. Release Management Dashboard (showing the Advance to Input button)



Release Management							
+ Create Release Plan View Edit Copy → Advance to Input ← Compare View Activity Revision History 6 of 6 Clear Filters Download							
	Version	Status	Compliance Date	Retirement Date	Last Modified	Modified By	
<input type="checkbox"/>	30.0-Draft10.input	Draft	05/01/2023	07/31/2023	04/24/2023 15:07:50	PREPEHV	
<input type="checkbox"/>	29.0.17.1	Approved	04/01/2023	06/30/2023	04/13/2023 13:24:01	PAULMART	
<input type="checkbox"/>	28.0.28.0	Active	02/01/2023	05/01/2023	05/04/2023 10:21:08	BSCXK02	
<input type="checkbox"/>	27.0.45.2	Retired	02/21/2023	02/01/2023	02/22/2023 15:43:49	ILMROOT	
<input type="checkbox"/>	12.0-Draft7.input	Draft	04/17/2023		05/10/2023 09:41:17	BSCXK02	
<input checked="" type="checkbox"/>	11.0-Draft10	Draft			04/03/2023 09:30:47	PREPEHV	

The Release Management Dashboard is updated to show that the selected release is locked and “.input” is added to the release version name (see [Exhibit 29](#)).

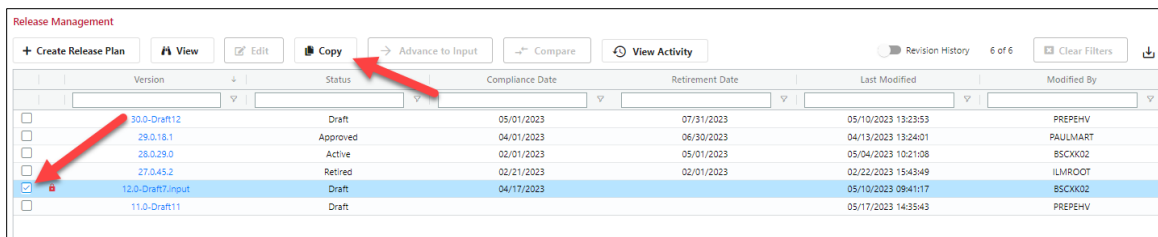
Exhibit 29. Release Management Dashboard (showing a locked release)



Release Management							
+ Create Release Plan View Edit Copy → Advance to Input ← Compare View Activity Revision History 6 of 6 Clear Filters Download							
	Version	Status	Compliance Date	Retirement Date	Last Modified	Modified By	
<input type="checkbox"/>	30.0-Draft10.input	Draft	05/01/2023	07/31/2023	04/24/2023 15:07:50	PREPEHV	
<input type="checkbox"/>	29.0.17.1	Approved	04/01/2023	06/30/2023	04/13/2023 13:24:01	PAULMART	
<input type="checkbox"/>	28.0.28.0	Active	02/01/2023	05/01/2023	05/04/2023 10:21:08	BSCXK02	
<input type="checkbox"/>	27.0.45.2	Retired	02/21/2023	02/01/2023	02/22/2023 15:43:49	ILMROOT	
<input type="checkbox"/>	12.0-Draft7.input	Draft	04/17/2023		05/10/2023 09:41:17	BSCXK02	
<input checked="" type="checkbox"/>	11.0-Draft10.input	Draft			05/10/2023 10:03:54	PREPEHV	

(*Railroad Release Manager task*) Once the Interoperable Release Manager locks the release in input mode, railroads can select the input draft checkbox and then select the **Copy** button to create a copy of the input that will enable them to provide their feedback (see [Exhibit 30](#)).

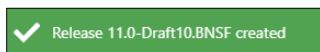
Exhibit 30. Release Management Dashboard (showing the checked version and the Copy button)



Release Management							
+ Create Release Plan View Edit Copy → Advance to Input ← Compare View Activity Revision History 6 of 6 Clear Filters Download							
	Version	Status	Compliance Date	Retirement Date	Last Modified	Modified By	
<input type="checkbox"/>	30.0-Draft12	Draft	05/01/2023	07/31/2023	05/10/2023 19:23:53	PREPEHV	
<input type="checkbox"/>	29.0.15.1	Approved	04/01/2023	06/30/2023	04/13/2023 13:24:01	PAULMART	
<input type="checkbox"/>	28.0.29.0	Active	02/01/2023	05/01/2023	05/04/2023 10:21:08	BSCXK02	
<input type="checkbox"/>	27.0.45.2	Retired	02/21/2023	02/01/2023	02/22/2023 15:43:49	ILMROOT	
<input checked="" type="checkbox"/>	12.0-Draft7.input	Draft	04/17/2023		05/10/2023 09:41:17	BSCXK02	
<input type="checkbox"/>	11.0-Draft11	Draft			05/17/2023 14:35:43	PREPEHV	

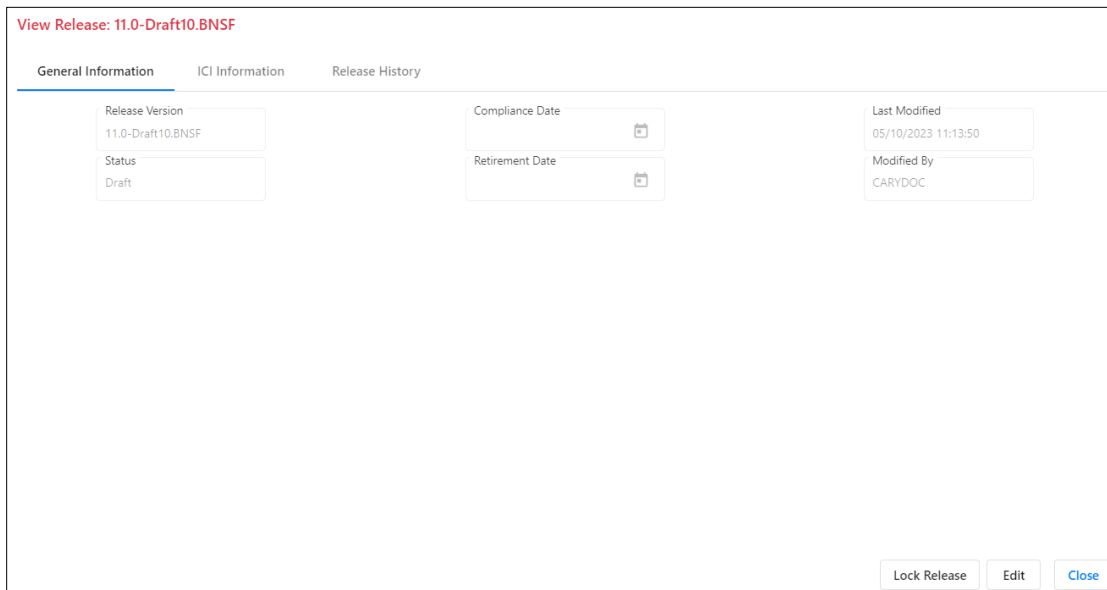
Once the Railroad Release Manager selects Copy, a confirmation popup is displayed (see [Exhibit 31](#)).

Exhibit 31. Railroad Input Draft Confirmation Popup





The View Release popup is displayed for the Railroad Release Manager to input their feedback for the release (see [Exhibit 32](#)).

Exhibit 32. View Release Popup (Railroad Release Manager view showing the Edit button)



View Release: 11.0-Draft10.BNSF

General Information ICI Information Release History

Release Version 11.0-Draft10.BNSF	Compliance Date 	Last Modified 05/10/2023 11:13:50
Status Draft	Retirement Date 	Modified By CARYDOC

Lock Release Edit Close

(*Railroad Release Manager task*) Select **Edit** when you are ready to provide feedback for your railroad (see “[Editing ICI Information](#)” on page 14 for more information).

After all of the Railroad Release Managers have provided their changes in their railroad input drafts, the Interoperable Release Manager can select the input draft from the Release Management Dashboard and use the View Release Popup to initiate the process of merging the Railroad Release Managers’ changes into one screen (see [Exhibit 33](#)).

Exhibit 33. View Release Popup (showing the Initiate Merge button)

View Release: 11.0-Draft10.input

General Information ICI Information Release History

Release Version
11.0-Draft10.input

Status
Draft

APPROVE

Compliance Date

Retirement Date

Last Modified
05/10/2023 10:03:54

Modified By
PREPEHV

Locked By
CARYTST

Initiate Merge Close

Select the **Initiate Merge** button to initiate the merge. The Approve/Reject Differences popup is displayed (see [Exhibit 34](#)).

Exhibit 34. Approve/Reject Differences Popup

Approve/Reject differences: 11.0-Draft10.input

ICI Name/Version/Change Type	Mark	Comment	Railroad Feedback	Action
<div> <div> AAR: S-9058 ITC Ticket Management Requirements and Use Cases </div> <div> 1.0 </div> <div> Version Added </div> </div>				Accept
	RAIL		I think this should be included.	
<div> <div> ITC2.4 Do Not Use </div> <div> Comment Modified </div> </div>				Accept
	RAIL		This needs to be added to the next release.	
<div> <div> 1.2.3.4TEST </div> <div> Version Added </div> </div>				Accept
	RAIL		I think this should be included.	

Back Save Review

Use the Approve/Reject Differences popup to review the input and take actions (accept or reject).

In the Action column, “Accept” is entered for each input item by default. You can select **Accept** to display a drop-down list that allows you to see options for “Accept” and “Reject”.

If you reject an input item, that input is not carried forward in the draft release. You can also select the Edit icon (✎) in the Comment column to add a comment.

Note: As you are reviewing and making changes, you can select **Save** to ensure your changes are saved if you need to close the screen for some reason.

When you have finished accepting and rejecting inputs, select **Review** to see a list of the accepted changes (see [Exhibit 35](#)).

Exhibit 35. Final Review Popup (showing an input removed)

Final Review: T1.0-Draft10.input

ICI Name/Version/Change Type	Mark	Comment	Railroad Feedback
✓ AAR: S-9058 ITC Ticket Management Requirements and Use Cases			
✓ ITC2.4 Do Not Use			
✓ Comment Modified			
	RAIL		This needs to be added to the next release.
✓ 1.2.3.4TEST			
✓ Version Added			
	RAIL		I think this should be included.
✓ 99			
✓ Version Added			
	RAIL		I think this should be included.

Back Finalize Merge

Once you review the accepted changes, select **Finalize Merge**. A Save Release popup is displayed to enable you (as the Interoperable Release Manager) to enter a required comment indicating your approval (see [Exhibit 36](#)).

Exhibit 36. Save Release Popup

Save Release

Release Comment *

Ready to finalize the merge

28 / 1000

Cancel Create Release Version

Enter a comment to indicate your approval of the merge.

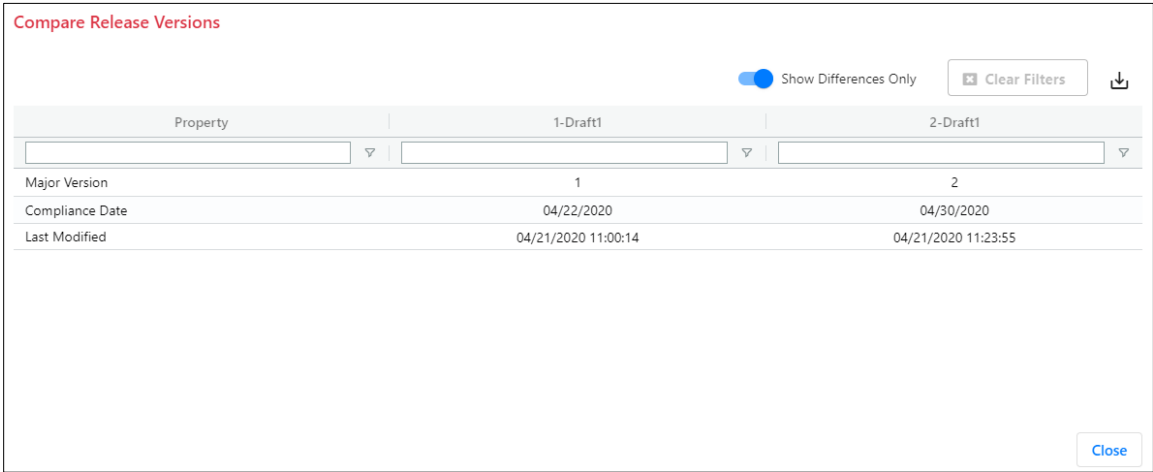
Select **Create Release Version** to create a new draft release version that includes the accepted railroad input. The draft number is incremented by one and the draft release is no longer locked.

Comparing Release Versions

You can compare up to three release versions to determine the differences between each version.

On the Release Management Dashboard, first select the checkboxes at the left of the two or three release versions that you want to compare. Then, select **Compare**. The Compare Release Versions popup is displayed (see [Exhibit 37](#)).

Exhibit 37. Compare Release Versions Popup



The Compare Release Versions popup shows each property that has differences as well as a column for each release version showing the differences.

You can select the **Show Differences Only** toggle to see all values for each release.

Select **Close** when you have finished reviewing the comparison.

Viewing Release Activity

You can view the release activity logs for any release version.

On the Release Management Dashboard, first select the checkbox at the left of the release version for which you want to view the release activity logs. Then, select **View Activity**. The Release Activity Logs Information popup is displayed (see [Exhibit 38](#)).

Exhibit 38. Release Activity Logs Information Popup

Release Activity Logs Information

Export To CSV

Number of Logs: 1 of 1

Clear Filters

Action	Status	Action Description	Action Mark	User	Modified Date/Time (CST)
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
New Release Created	Draft	PTC Interoperable system release Created : '2'	TESX	PAULMA...	04/21/2020 11:23:55

Close

The Release Activity Logs Information popup displays information about any and all activity associated with a release, including the action, the status, the Mark, the user account, and the date and time of the modification.

Select **Close** when you have finished viewing the release activity logs information.