



INTERSYSTEMS LEARNING SERVICES

InterSystems Change Control



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ICC 470: CCR Transport – Release Management



Objectives

- Explain how release management can be used in CCR to manage the flow of common changes from an Edition out to a collection of different Child Systems.
- Demonstrate how to configure an Edition and one or more Edition Child Systems to receive releases from that Edition.



Part 1: Understanding Release Management



Releases

- CCR implemented functionality to automate release management:
 - Intended for Tier 1 and Tier 2 Systems.
 - Releases built from one Edition System.
 - Edition Child Systems configured to be tied to an Edition System.
 - An Edition Child is downstream from an Edition System and receives releases from it.
 - All Perforce integrations are automatic and merge all changes from the group of release CCRs from the Edition/LIVE branch to Child/BASE branch.
 - Releases provide automated tracking of deployment to each downstream Edition Child.



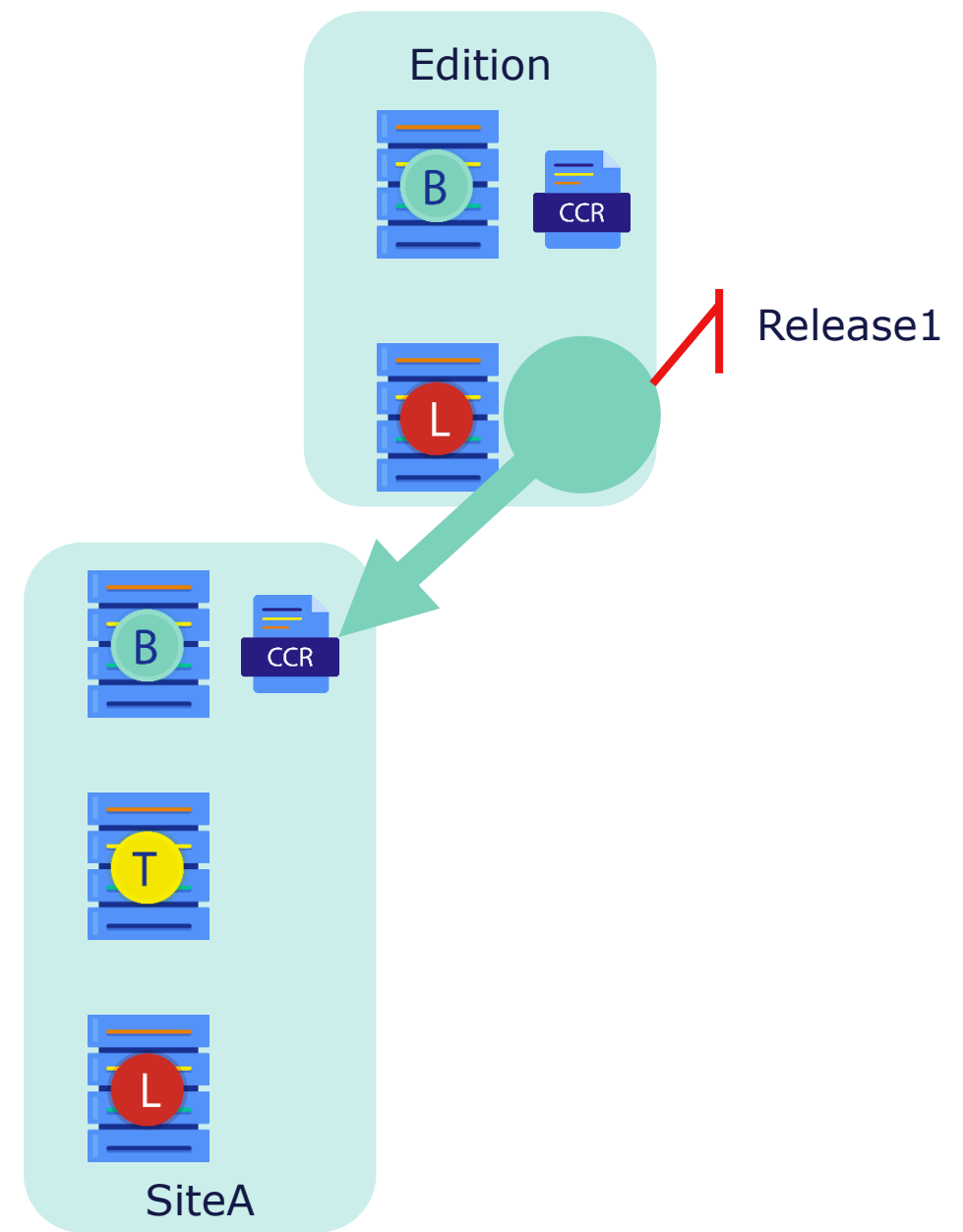
Release Use Cases

- CCR release management continues to be helpful when multiple customer Systems inherit customizations from a common upstream code-base.
 - Custom monitoring utilities.



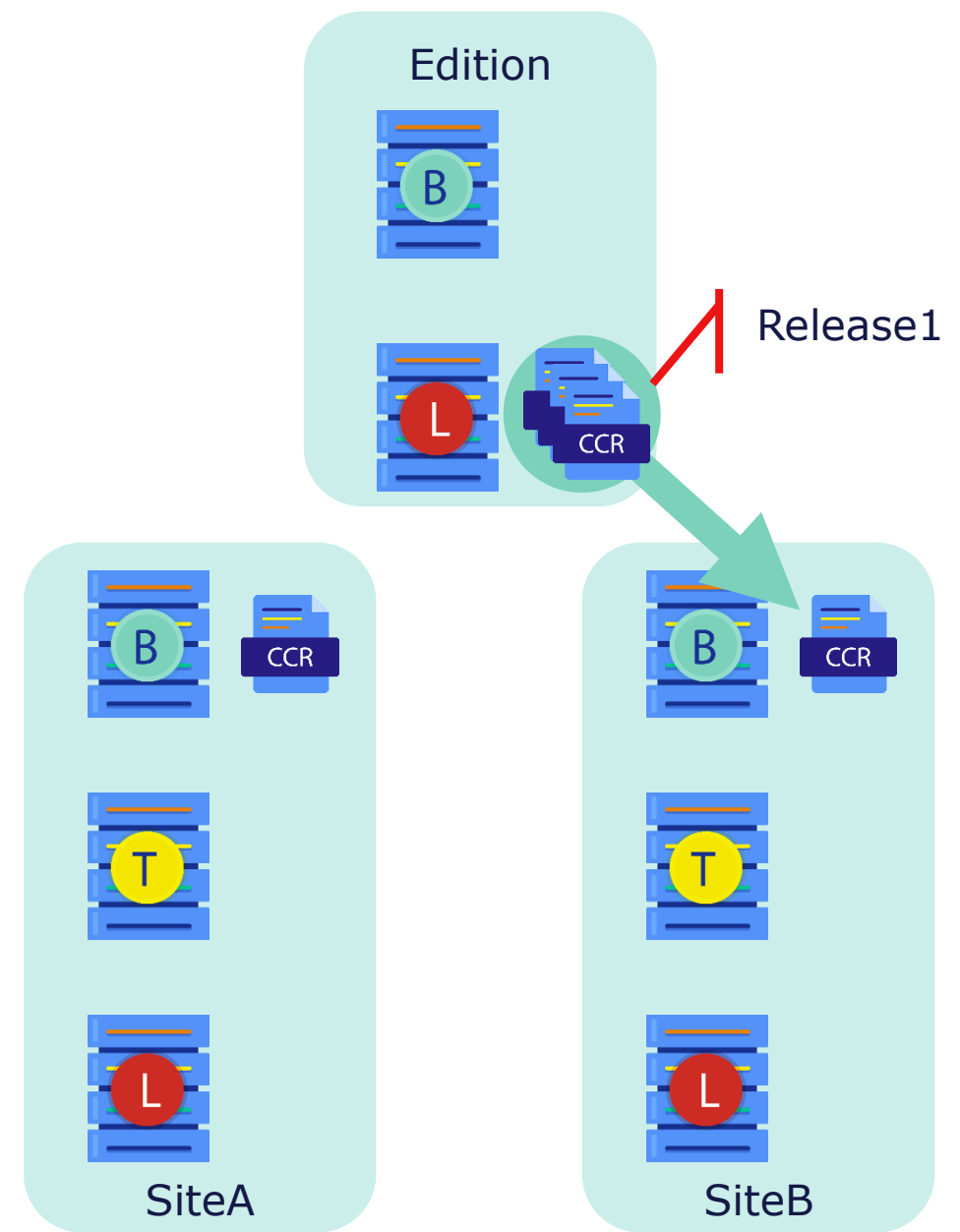
Release Flow

- CCRs flow from BASE to LIVE on Edition.
- Collection of Edition CCRs identified as Release1.
- SiteA is ready to accept Release1.
- All CCRs in Release1 integrated from Edition/LIVE to SiteA/BASE and a single CCR is created for SiteA.



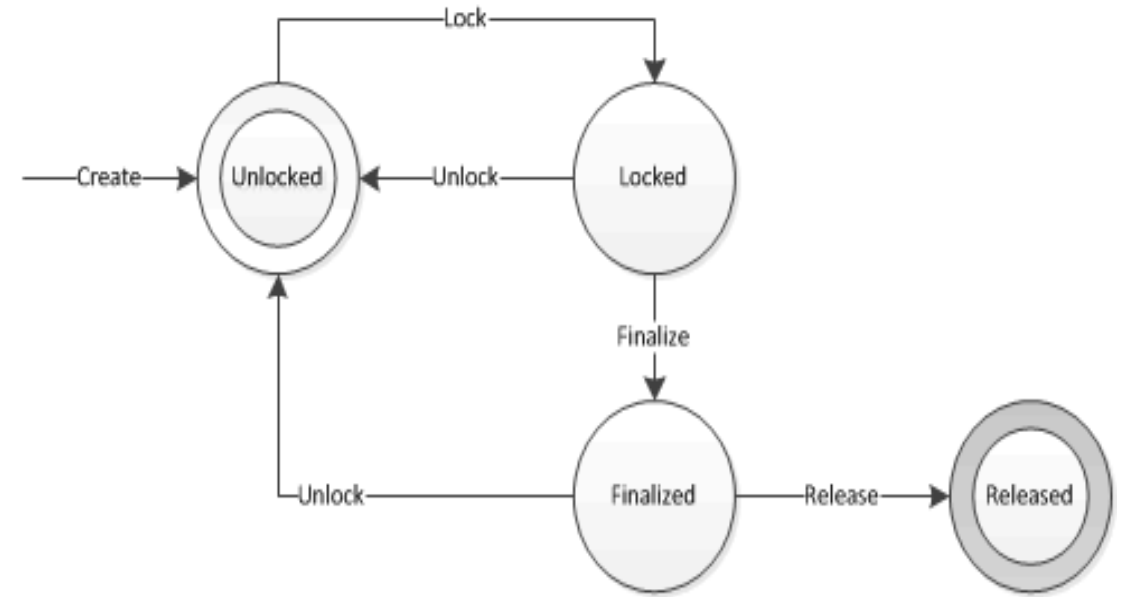
Release Flow (cont.)

- Release CCR moves through environments of SiteA
- SiteB is ready to accept Release1
- All CCRs in Release1 integrated from Edition/LIVE to SiteB/BASE and a single CCR is created for SiteB
- Release CCR moves through environments of SiteB



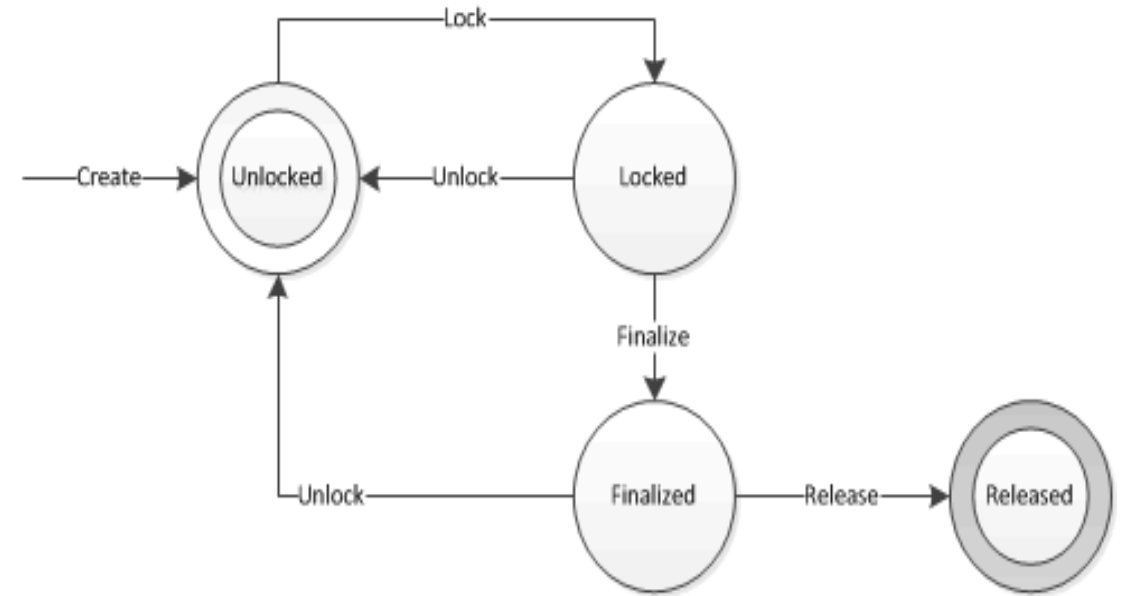
Release Lifecycle

- Unlocked.
 - Add CCRs to the Release.
- Locked.
 - Progress attached CCRs to terminal states.
- Finalized.
 - Assign the Release to an internal (testing) child system.
- Released.
 - Assign the release to customer child system(s).



Release Lifecycle (cont.)

- See CCR online documentation on release management for more details on release states and release transitions.



Release User Interface

- Release Info menu option.
 - Create new releases.
 - Update Release status.
 - Lock Release to prevent changes.
 - Configure Integration Mode.
 - Download release notes report.
 - Omit changes and download omitted changes report.

Details for Releases in CCR Applications

Select Organization/System Edition: SCXX/T2010

[\[System Details\]](#)

Select Release: SCXX-T2010-FR029

[\[create Release\]](#)

Title: T2010-ER37

Release Version: SCXX-T2010-FR029

Description:

Release Status: Unreleased

Release Lock Status: Unlock Release

Integration Mode: Accept Source

Release Comments:

[\[direct link\]](#)

Release Report: [HTML](#) [Excel](#)

[\[show finalized changes\]](#)

Save

This release has been finalized by attaching Perforce Job SCXX-T2010-FR029 to edition changelists.

Child Site Status [\[Show Deprecated\]](#)

System	CCRs/States (This Release)	Released Date	Current Release	Action	Omitted Changes
SCAA/T2010	SCAA3730 (Cancelled)	12/21/2016	SCXX-T2010-FR029	No valid actions.	Report
SCBO/T2010	SCBO3757 (Cancelled)	12/21/2016	SCXX-T2010-FR029	No valid actions.	Report
SCLA/T2010			SCXX-T2010-FR028	Assign Release	Report
SCXX/T2012			SCXX-T2010-FR028	Assign Release	Report

CCRs for this Release

ID	Title	Current State	Group	Current Owner
SCXX3975	SMR00 Extracts to include Appointments for Clinic Sessions with Reporting Type Code B9	Closed		Dooley,Angela



Quiz: Release Usage

Question:

Most CCR Systems worldwide should be set up to receive releases from an Edition System. True or False?

Answer:

False. TrakCare Edition management is now handled outside of CCR (by core Development processes); release management is an option for any region that attempts to create a locally managed HealthShare Edition, but most sites do not pull from an Edition.



Part 2: Configuring Systems for Release Management



Configuration Overview

- Prior to using release management, System definitions must be configured.
 - 1 System configured as 'Edition' System on System menu in CCR.
 - 1+ Systems configured as 'Edition Child' System on System menu in CCR.
 - Systems can belong to different organizations.
 - Releases must be applied in sequential order.
- User needs "Release Manager" role in CCR to make changes to release Configuration or releases.



Edition System Configuration

1. Go to System Details for the Edition.
2. Click on "show Advanced Controls."
3. Select "System is Edition."
4. Click "Save."

Workflow Flags: BASE; LIVE; EditionSystem;

[\[hide Advanced controls\]](#)

Bypass Peer Reviews: ☐

Peer Review BASE Only: ☐

BASE: ☒

TEST: ☐

UAT: ☐

LIVE: ☒

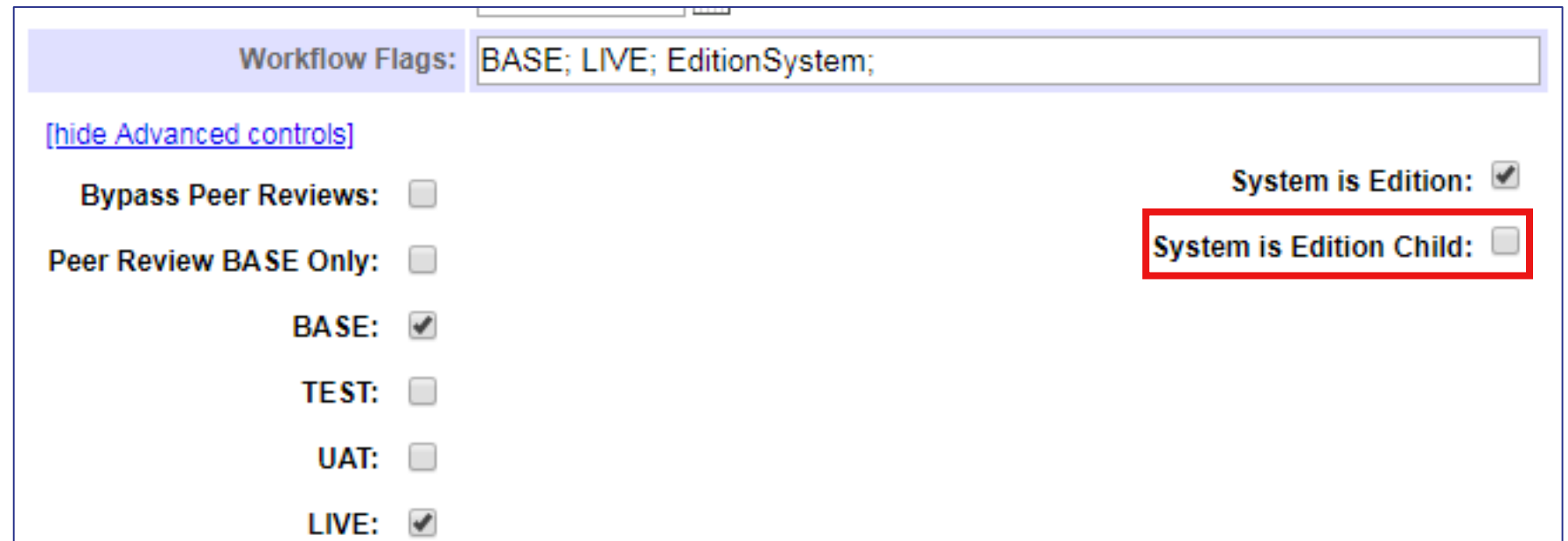
System is Edition: ☒

System is Edition Child: ☐



Edition Child System Configuration

1. Go to System definition for System to be configured as child.
2. Click Advanced Controls tab.
3. Select System is Edition Child.
4. Save.



The screenshot displays the 'Advanced Controls' tab for a system definition. At the top, a 'Workflow Flags' field contains the text 'BASE; LIVE; EditionSystem;'. Below this, a link '[hide Advanced controls]' is visible. On the left side, there are several checkboxes: 'Bypass Peer Reviews:' (unchecked), 'Peer Review BASE Only:' (unchecked), 'BASE:' (checked), 'TEST:' (unchecked), 'UAT:' (unchecked), and 'LIVE:' (checked). On the right side, there are two checkboxes: 'System is Edition:' (checked) and 'System is Edition Child:' (unchecked). The 'System is Edition Child:' checkbox is highlighted with a red rectangular border.



Edition Child System Configuration (cont.)

- 5. After save, click Advanced Controls again.
- 6. Select Edition to be used as parent of this Edition Child.
- 7. Click Ok in confirmation dialog.

System Alert Expiration:

Workflow Flags:

BASE; TEST; LIVE; EditionChild;

[\[hide Advanced controls\]](#)

Bypass Peer Reviews:

☐

Peer Review BASE Only:

☐

BASE:

☒

TEST:

☒

UAT:

☐

LIVE:

☒

System is Deprecated:

☐

System is Edition:

☐

System is Edition Child:

☒

Select Edition (SiteCode/SystemCode) ▼

Select Edition (SiteCode/SystemCode)

AUXX/L2012

BRRS/T2012

CLXX/T2011

CLXX/T2012

ERXX/T2012

ISCU/TestEdition

ITXX/T2012

[\[update CCR Client Tools\]](#)

System Architects



Selecting Baseline Release for Edition Child

- After configuring a child, option to select a Baseline release appears.
 - Only applies if Edition has prior releases.
 - **Every** Release must be applied sequentially to a Child System.
 - Releases are incremental.
 - Releases prior to baseline Release need not be applied to child.

Child System of [TestEdition](#)

This system has no release history, so you can set a base release ([see detailed explanation](#)).

Baseline Release: [none] [\[link\]](#)

+	TR10 (ISCU-TestEdition-FR010)	Fields
	TE9 (ISCU-TestEdition-FR009)	



Quiz: Edition and Children

Question:

Every Edition Child must be a System defined in the same organization as the Edition to which it is connected. True or False?

Answer:

False.

When release management is used, most often the Edition is a System internal to InterSystems and the Edition Child Systems are all defined for different organizations receiving the same code and configuration from the Edition.



Summary

- What are the key points for this module?

