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InterSystems Change Control

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ICC 470: CCR Transport – Release Management

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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

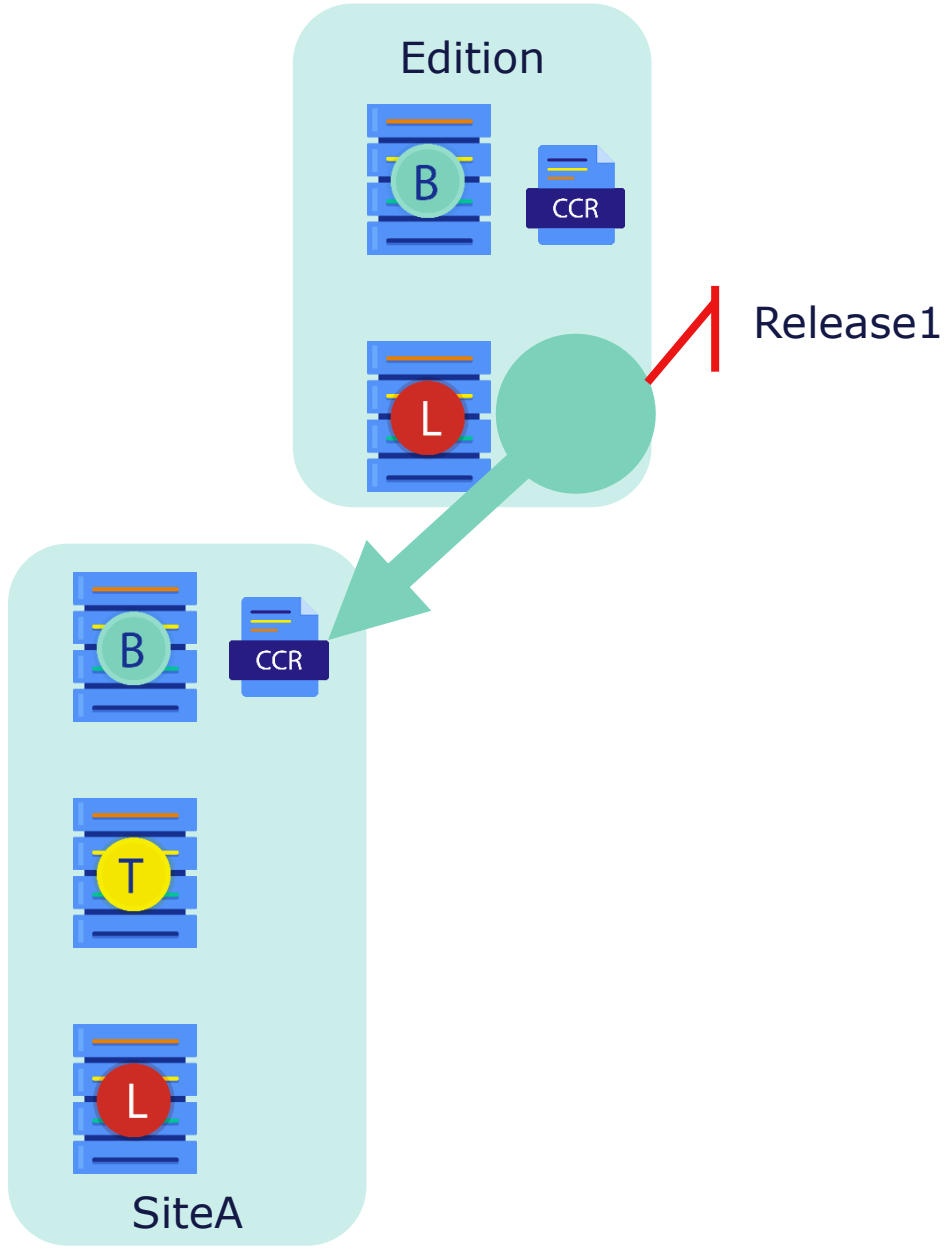
- CCR implemented functionality to automate release management:
  - Intended for Tier 1 and Tier 2 Systems.
  - Releases built from one Edition System.
  - Edition Child Systems configured to be tied to an Edition System.
    - An Edition Child is downstream from an Edition System and receives releases 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.

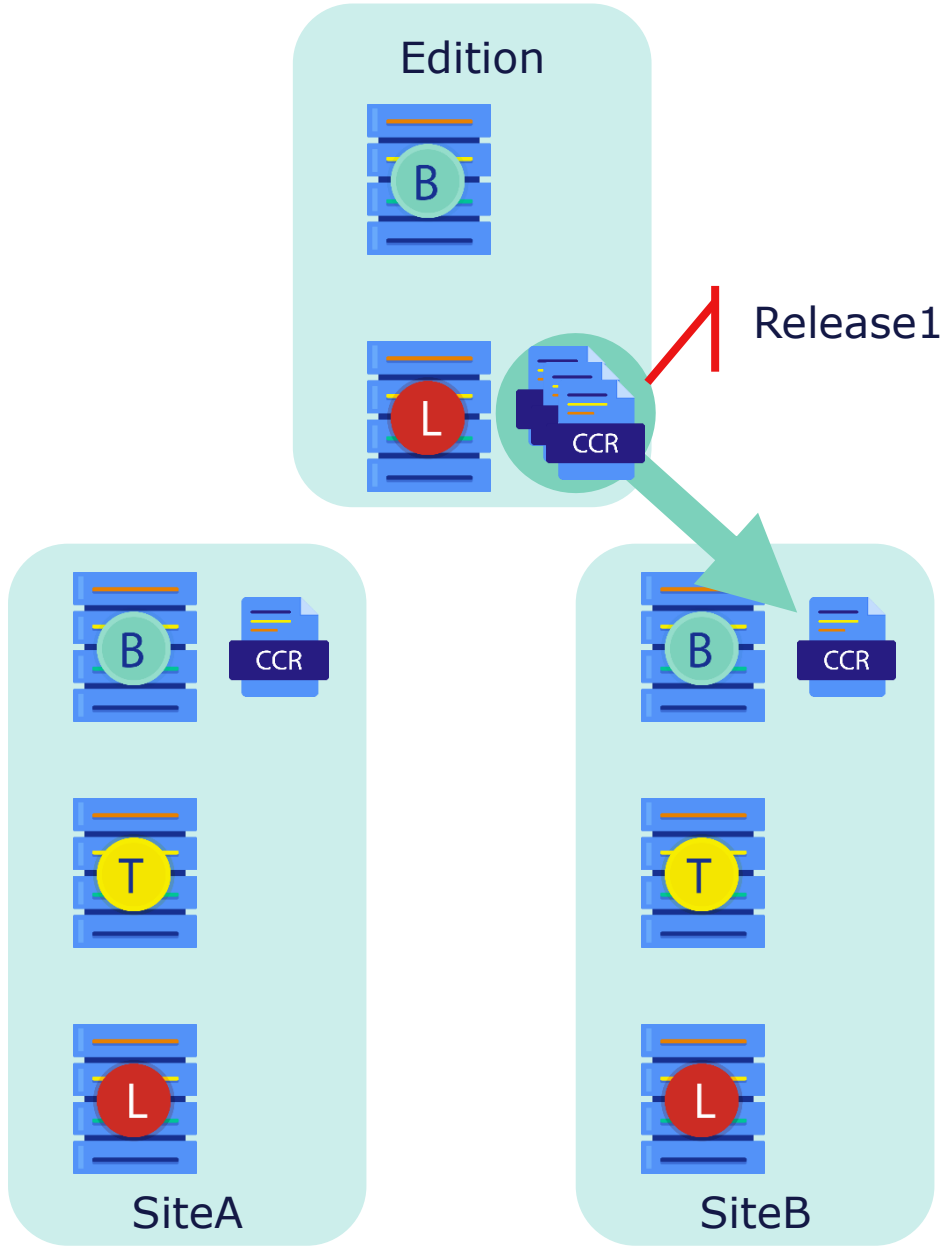
Release Flow

- 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.



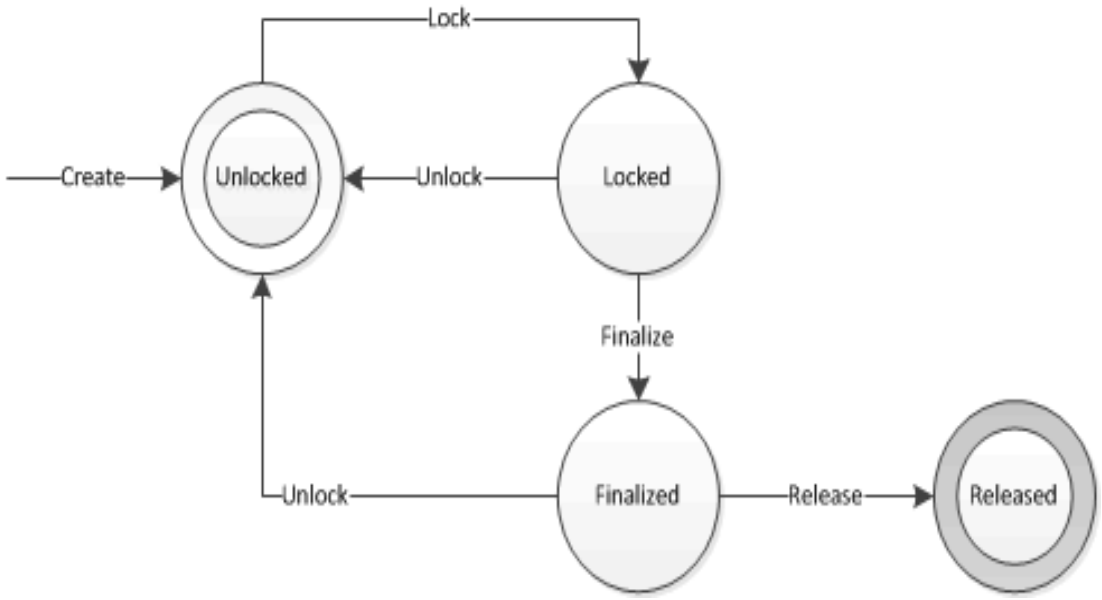
Release Flow (cont.)

- 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



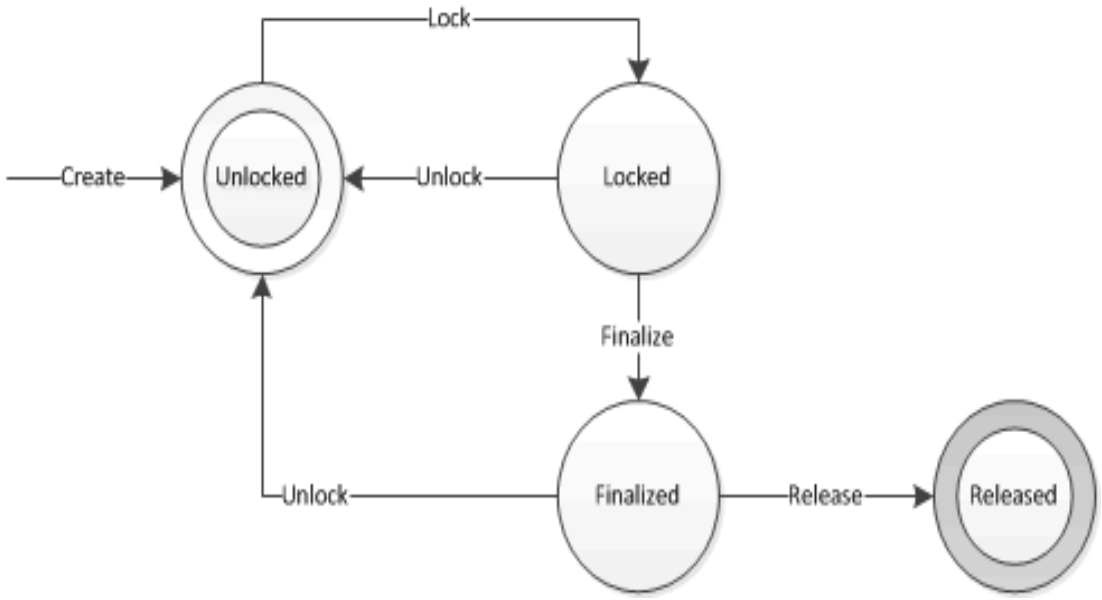
Release Lifecycle

- 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).



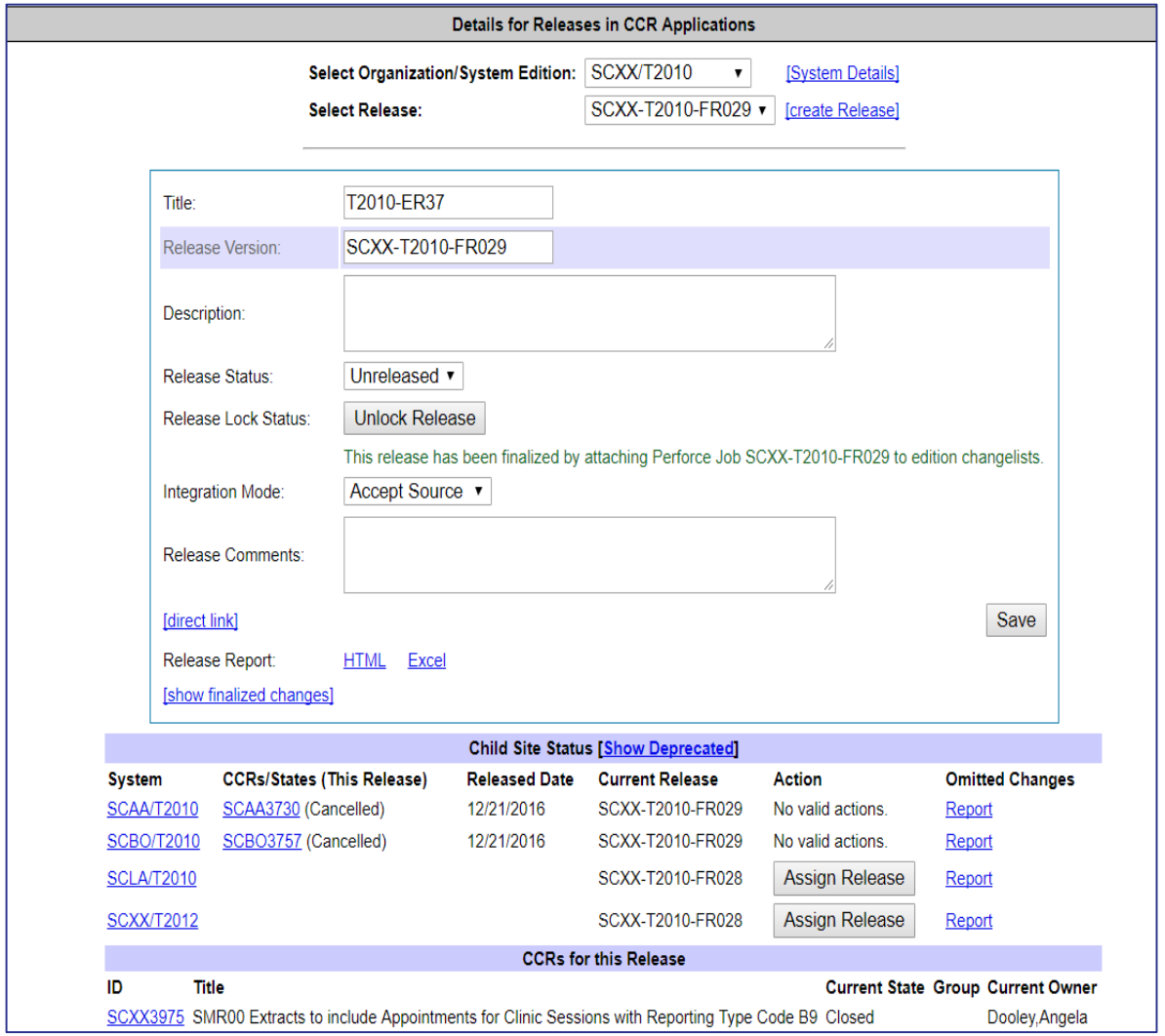
Release Lifecycle (cont.)

- 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.



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.

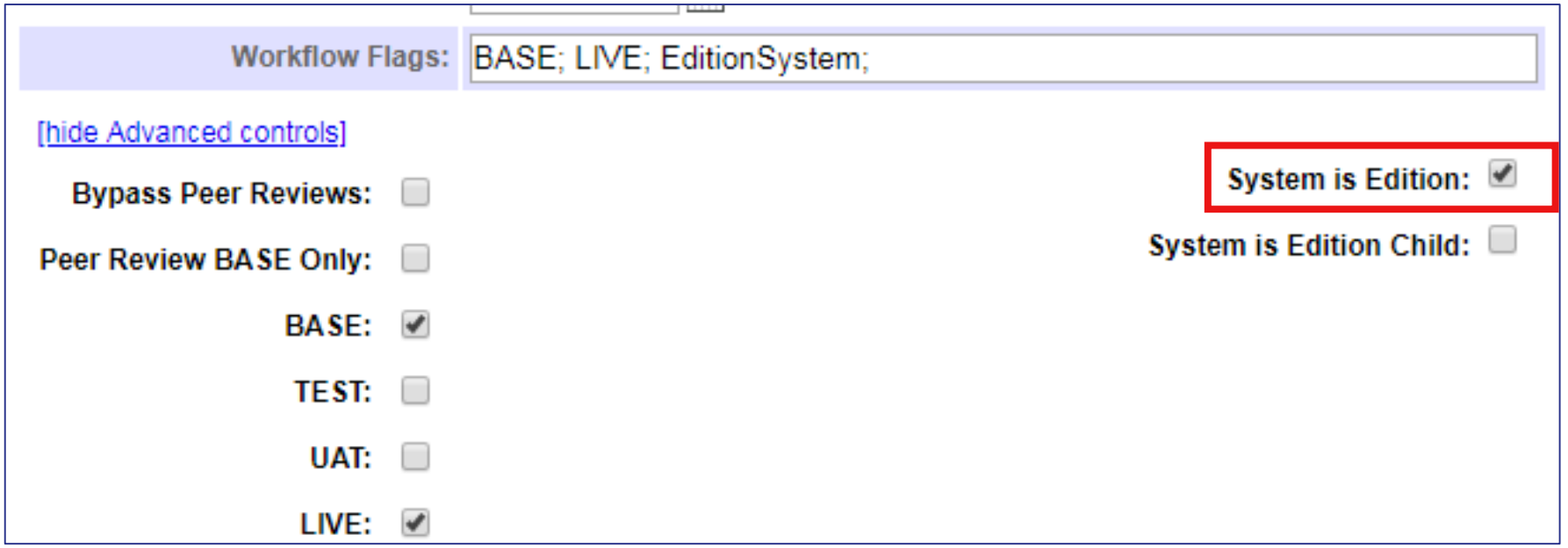
Part 2: Configuring Systems for Release Management

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.

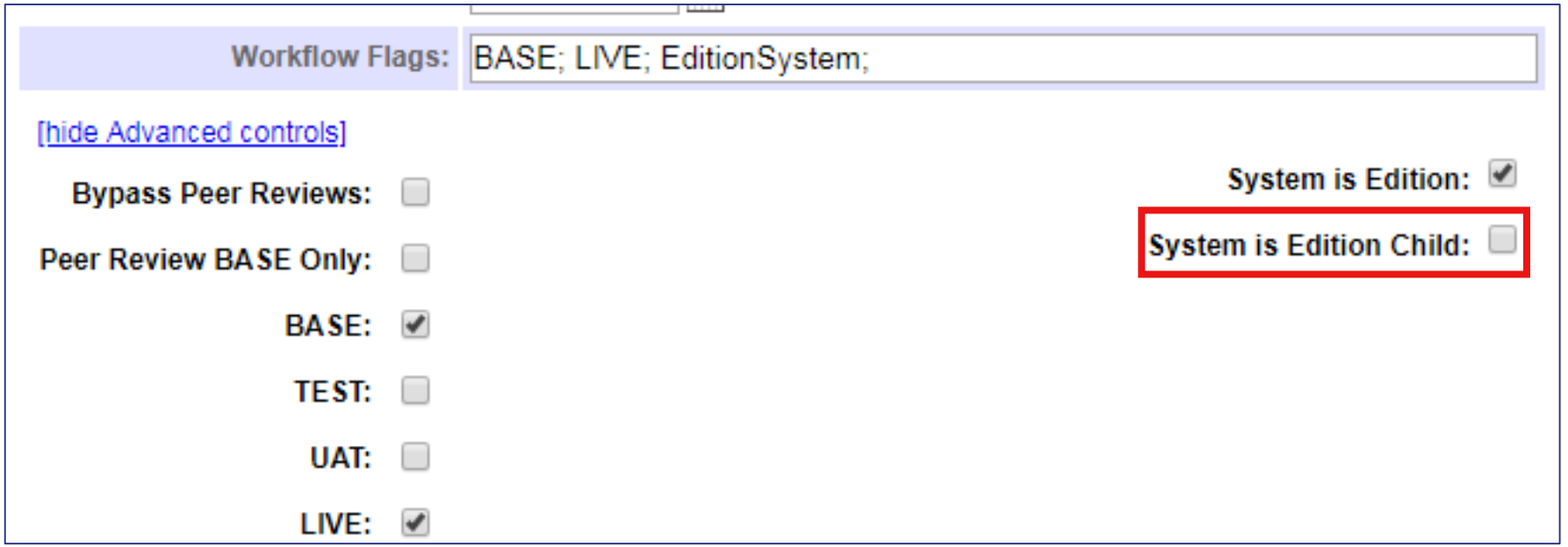
Edition System Configuration

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



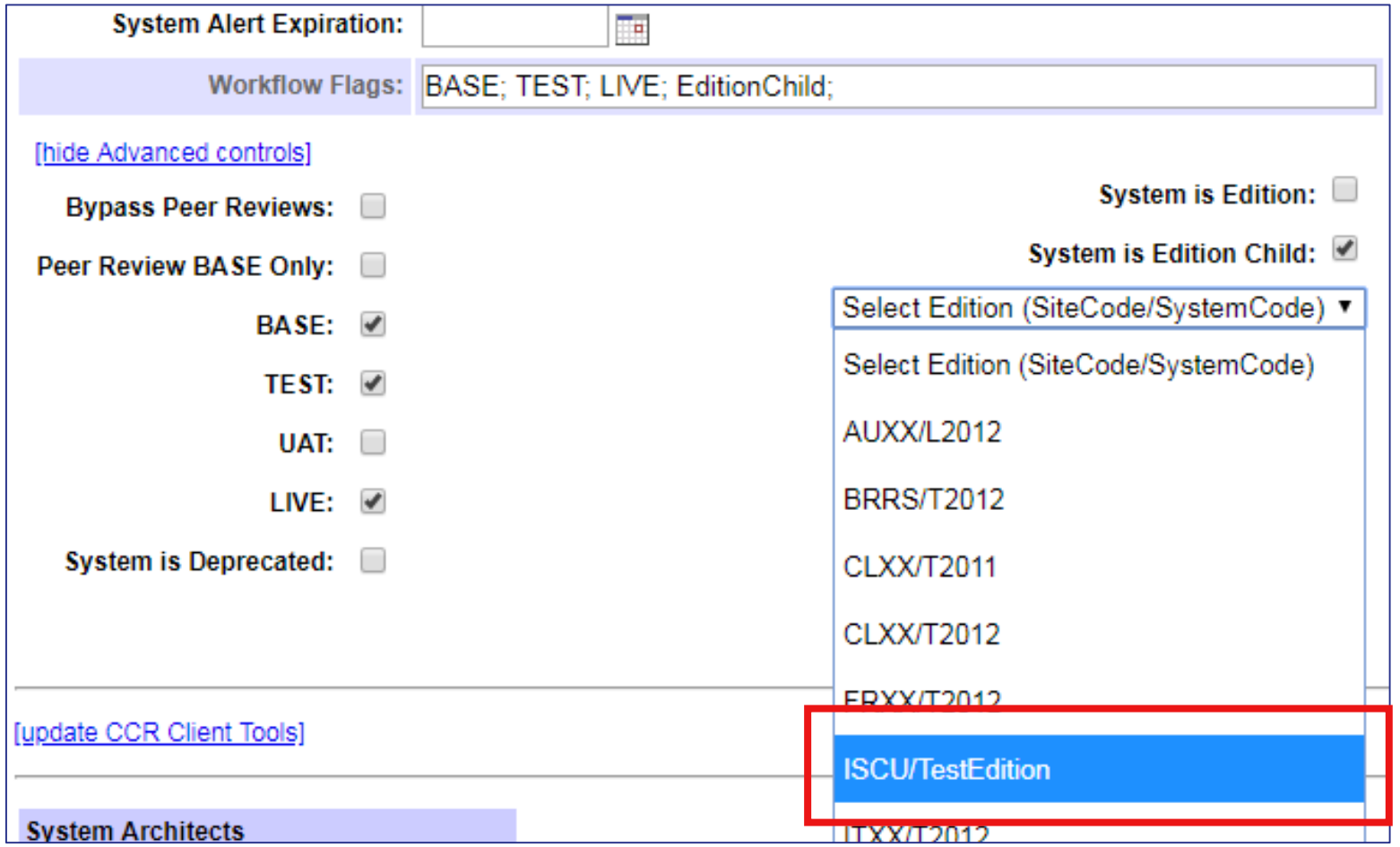
Edition Child System Configuration

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.



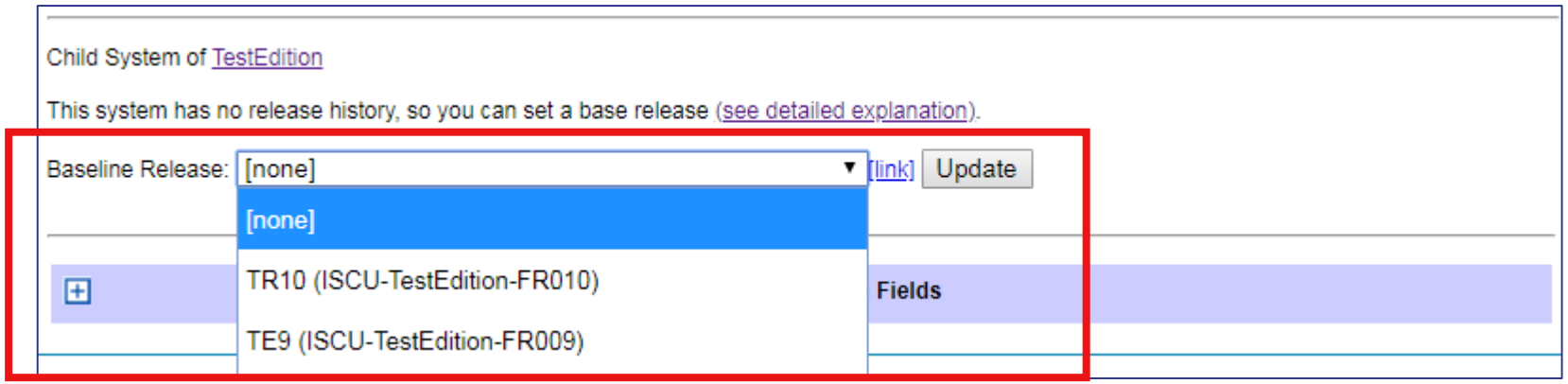
Edition Child System Configuration (cont.)

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.



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.



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?