



INTERSYSTEMS LEARNING SERVICES

# InterSystems Change Control



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ICC 500:  
Introduction to CCR Tier 1



# Objectives

- Explain at a high level what CCR Tier 1 means and when it is useful.
- Identify whether a deeper dive into CCR Tier 1 training material would be beneficial.



# Part 1:

## CCR Tier 1: Working with Custom Source Items



# Review: Example types of changes for each CCR Tier

## ■ CCR Tier 0:

- File system path changes.
- Memory settings.
- User creation.
- Patching.
- Upgrades.
- Any manual change to the environment or System.



## ■ CCR Tier 1:

- Classes.
- Routines.
- Reports.
- CSP Pages.
- JavaScript.
- Integration logic.
- DTL.
- Productions.



# Review: Example types of changes for each CCR Tier (cont.)

- CCR Tier 2:
  - Layouts.
  - Security groups.
  - Code table changes.
  - Workflow.





# CCR Tier 1: The Fundamentals

- A “CCR Tier 1” Change Control Record tracks all of the change documentation recorded in a CCR Tier 0 record, and adds to it:
  - Recording of changes made to custom source items (typically edited via Studio or Atelier).
  - Source items automatically versioned within source control.
  - Delivery of items to or from the environments via the CCR Transport mechanism.



# CCR Tier 1: The Fundamentals (cont.)

- A Perforce license is required in order to trigger the source control related actions which are part of a CCR Tier 1 workflow (specifically check-ins and integrations).
- Tier 1 CCRs are auto-populated with standard Implementation Plan and Backout Plan as the assumption is that the changes will be implemented via ItemSet deployment.
  - It is critical to change or augment those standard plans if manual steps are required.



# CCR Tier 1: The Fundamentals (cont.)

- Any time changes are being made to source items, the Perforce branch *\*must\** be kept in sync with the environments for TEST and LIVE; proper use of CCR process will do this.



# CCR Tier 1: The Audience

- The courses focused on CCR Tier 1 (ICC5nn) are mostly focused on hands-on technical topics as Tier 1 involves changes to custom 'source code' which is itself a technical task.
  - Specifically, changes are usually made via an InterSystems IDE (e.g., Atelier or Studio) or the System Management Portal (e.g., to DeepSee items or DTL).
- Those taking these courses should already have a working knowledge of CCR Tier 0 usage and how CCR Transport works.



# CCR Tier 1: The Audience (cont.)

- Additional CCR Tier 1 material relates to:
  - Baselining and building source code.
  - Topics dealing with HealthShare and Ensemble usage.
- While they should complete this Introduction course, non-technical users (e.g., TrakCare Application Specialists) will get little to no value from the other courses covering CCR Tier 1.



# Quiz: CCR Tier 1 Applicability

## Question:

Which groups of users are the CCR Tier 1 training materials applicable (select all that apply):

- A. Users who use InterSystems Studio for writing custom integration code.
- B. Users who spend all their time inside the InterSystems TrakCare application.
- C. Users who work on custom DTL within InterSystems HealthShare.



# Quiz: CCR Tier 1 Applicability (cont.)

Answer:

- A. Users who use InterSystems Studio for writing custom integration code.
- C. Users who work on custom DTL within InterSystems HealthShare.

TrakCare Application users should focus on CCR Tier 2 training, which covers how to manage changes to TrakCare configuration via CCR.



# Quiz: CCR Tier 1 Functionality

## Question:

Select all that distinguish a Tier 1 CCR from a Tier 0 CCR:

- A. CCR Transport is used to move items to and from environments.
- B. Items are versioned within the InterSystems Perforce server.
- C. Changes made via Studio or Atelier are automatically tracked.
- D. Configuration updates made through the TrakCare application are automatically tracked.





# Quiz: CCR Tier 1 Functionality (cont.)

Answer:

- A. CCR Transport is used to move items to and from environments.
- B. Items are versioned within the InterSystems Perforce server.
- C. Changes made via Studio or Atelier are automatically tracked.

TrakCare changes are tracked via Tier 2 CCRs.



# Quiz: CCR Tier 1 Usage

## Question:

Which of the following might be controlled via a Tier 1 CCR?  
Select all that apply.

- A. Integration Logic.
- B. Custom Classes.
- C. TrakCare Security Groups.
- D. Product Upgrades.
- E. Changes to CSP Pages.



# Quiz: CCR Tier 1 Usage (cont.)

Answer:

- A. Integration Logic.
- B. Custom Classes.
- E. Changes to CSP Pages.

Changes to TrakCare Security Groups should be tracked in a Tier 2 CCR.

Product upgrades should be tracked in a Tier 0 CCR.



# Areas for Further Study for CCR Tier 1

- ICC510 – Usage Basics.
- ICC520 – Baselining Source Code.
- ICC530 – Interoperability Components.
- ICC540 – HealthShare.



# Summary

- What are the key points for this module?

