INTERSYSTEMS LEARNING SERVICES

InterSystems Change Control

InterSystems
Creative data technology

InterSystems Change Control

Confidential - Do Not Duplicate

COPYRIGHT NOTICE

© 2020 InterSystems Corporation, Cambridge, MA. All rights reserved.
InterSystems is a registered trademark of InterSystems Corporation.

InterSystems, InterSystems Caché, InterSystems Ensemble, InterSystems HealthShare, HealthShare, InterSystems TrakCare, TrakCare, InterSystems DeepSee, and DeepSee are registered trademarks of InterSystems Corporation.

InterSystems IRIS data platform, InterSystems IRIS for Health, InterSystems IRIS, InterSystems iKnow, Zen, and Caché Server Pages are trademarks of InterSystems Corporation.

All other brand or product names used herein are trademarks or registered trademarks of their respective companies or organizations.

This document contains trade secret and confidential information which is the property of InterSystems Corporation, One Memorial Drive, Cambridge, MA 02142, or its affiliates, and is furnished for the sole purpose of the operation and maintenance of the products of InterSystems Corporation. No part of this publication is to be used for any other purpose, and this publication is not to be reproduced, copied, disclosed, transmitted, stored in a retrieval system or translated into any human or computer language, in any form, by any means, in whole or in part, without the express prior written consent of InterSystems Corporation.

The copying, use and disposition of this document and the software programs described herein is prohibited except to the limited extent set forth in the standard software license agreement(s) of InterSystems Corporation covering such programs and related documentation. InterSystems Corporation makes no representations and warranties concerning such software programs other than those set forth in such standard software license agreement(s). In addition, the liability of InterSystems Corporation for any losses or damages relating to or arising out of the use of such software programs is limited in the manner set forth in such standard software license agreement(s).

THE FOREGOING IS A GENERAL SUMMARY OF THE RESTRICTIONS AND LIMITATIONS IMPOSED BY INTERSYSTEMS CORPORATION ON THE USE OF, AND LIABILITY ARISING FROM, ITS COMPUTER SOFTWARE. FOR COMPLETE INFORMATION REFERENCE SHOULD BE MADE TO THE STANDARD SOFTWARE LICENSE AGREEMENT(S) OF INTERSYSTEMS CORPORATION, COPIES OF WHICH WILL BE MADE AVAILABLE UPON REQUEST.

InterSystems Corporation disclaims responsibility for errors which may appear in this document, and it reserves the right, in its sole discretion and without notice, to make substitutions and modifications in the products and practices described in this document.

For Support questions about any InterSystems products, contact:

InterSystems WorldWide Response Center
Telephone: +1-617-621-0700
Tel: +44 (0) 844 854 2917
Email: support@InterSystems.com

ICC 540: CCR Tier 1 – InterSystems HealthShare®

InterSystems
Creative data technology

Objectives

- Identify subtleties for using change control for HealthShare.
- Demonstrate best practices for using CCR for HealthShare changes.
- Identify how secondary environments are used in the CCR workflow.

Best Practices

- Use Tier 0 CCRs when not feasible to maintain item in source control.
  - Makes change discoverable.
  - Enforces workflow such as peer reviews.
- Use source control when possible.
  - Tier 1 CCR with ImplementCCR routine.
- Goal from product management:
  - Increase range of changes covered by source control.
  - Increase ease of use of source control across the full range of products.

Part 1: CCR for HealthShare Components

HealthShare: All Products

- HealthShare built on InterSystems IRIS.
  - Anything that applied to InterSystems IRIS applies to HealthShare.
    - Customizing productions same as customizing productions for InterSystems IRIS.
- Complex object synchronization framework.
  - Only use supported APIs.
    - Search documentation for components with export and import methods.
  - Many components do not even support using SQL on tables.
  - Do not directly change globals.

Challenge for Source Control

- A lot of configuration contained in rows of tables.
- HealthShare configuration tables do not support CCR.
  - Cannot export row from BASE and submit to a CCR for progression to all Environments.
- Goal from product management to support maintaining HealthShare configuration in source control.

HealthShare Health Connect

- Many additional components candidates for Tier 0 CCR only:
  - Facility Registry.
  - HealthShare Service Registry.
  - OID Registry.
  - Assigning Authority Registry.
  - Configuration Registry.
  - XUA Configuration Registry.
  - Coded Entry Registry.
  - Exclude Audit Events table.
  - FHIR CSP Configuration.

HealthShare Unified Care Record: Candidates for Tier 0 Only

- Everything in Health Connect.
- User/Clinician Registry.
- Gateways Registry.
- Consent Registry (multiple tables).
- Program Registry.
- Relationship Registry.
- Clinician Group Registry.
- PIX Notification Registry.

HealthShare Unified Care Record: Candidates for Tier 0 Only (cont.)

- Query Instance Registry.
- Security Domains.
- Consent Groups.
- Push Notification settings (Delivery Management).
- Terminology settings (multiple tables).

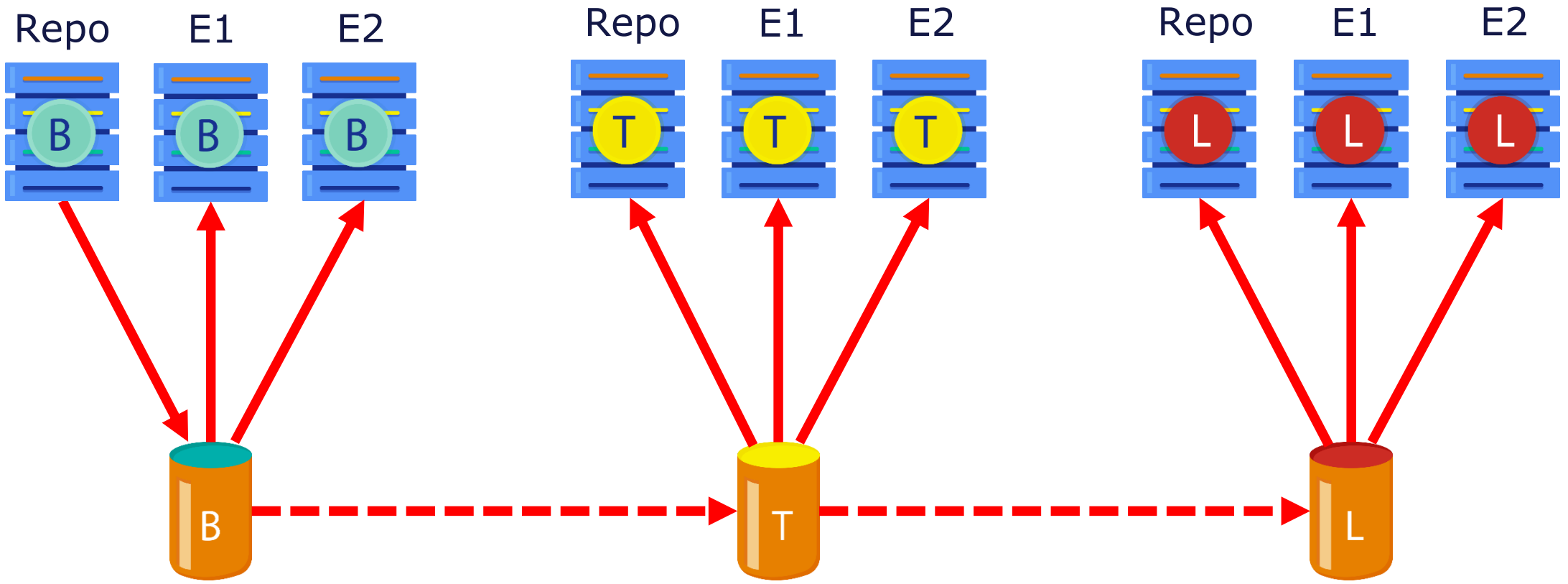
HealthShare Unified Care Record Recommendations

- Separate CCR Systems for Edge Gateway, Access Gateway, Registry and ODS.
  - Also use separate CCR System for HSCUSTOM namespace.
  - Use secondary Environments for multiple gateways.
- Custom Management Reports edited using Tier 1 process in IDE.
- Create web application definitions to allow IDE access to items in filesystem not available elsewhere.
  - Examples: /csp/xslt and /distlib

Secondary Environments

- Additional environments to receive changes at same time as corresponding primary environment.
  - Any primary environment can have 1+ secondary environments.
- Secondary environments for BASE require deployment of ItemSet during In_BASE state.
- See ICC440 for more information.

HealthShare Secondary Edge Gateways



HealthShare Health Insight

- Use Analytics Management Portal source control hooks.
- Use CCR Event Handler to automatically import components not covered by hooks.
- Use documented APIs.
  - Search documentation for “Packaging Business Intelligence Elements into Classes”.

HealthShare Personal Community

- Configuration spread out across multiple external files and tables that can’t export.
  - For external files, use IDE to add to source control.

HealthShare Patient Index

- Export rules and thresholds using documented APIs.

HealthShare Patient Index: Linkage Definitions

- Maintain linkage definition class in source control using IDE.
  - Follow procedure described in ICC530 for no portal hooks but editable in IDE.
- Do not add generated classes to source control.
  - Will be regenerated on compilation.
- Consider configuring CCR Event Handler to handle additional required implementation steps:
  - Stop production.
  - Compile linkage definition.
  - Start production.
  - Rebuild linkage data.

Summary

- What are the key points for this module?