



FI\$Cal

Financial Information System for California

R17

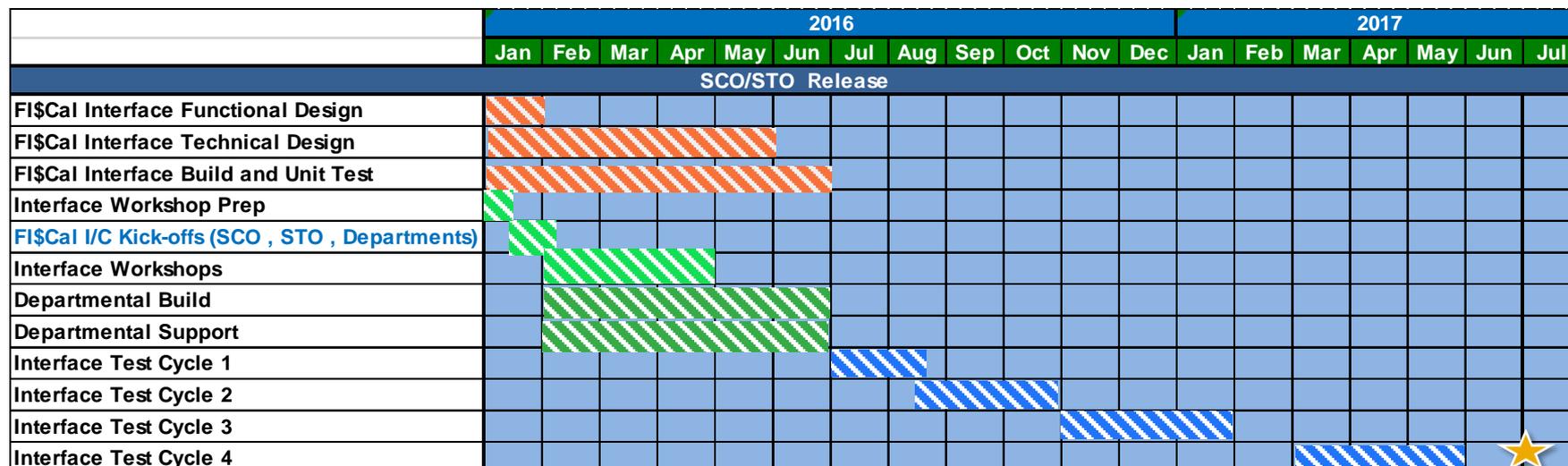
Deal Management
Interfaces/Conversion
Workshop

March 2, 2016

Agenda

- Workshop Objectives
 - Review Interface and file layout ,to allow STO to begin interface activities
 - Review each file layout and conversion process to allow STO to begin conversion design and build activities
- Timeline
- Roles & Responsibilities
- Detailed Layouts and review of Interfaces
 - INFDM001 - GO
 - INFDM002 - LRB
 - INFDM003 - Fees
 - INFDM005 - General Bonds
 - INFDM004 - Refunding App Engine
 - INFDM006 - Load Debt Service Schedules
 - CNVDM001- Outstanding Bonds
 - Next Steps

R17 Interfaces– Key Activities Timeline

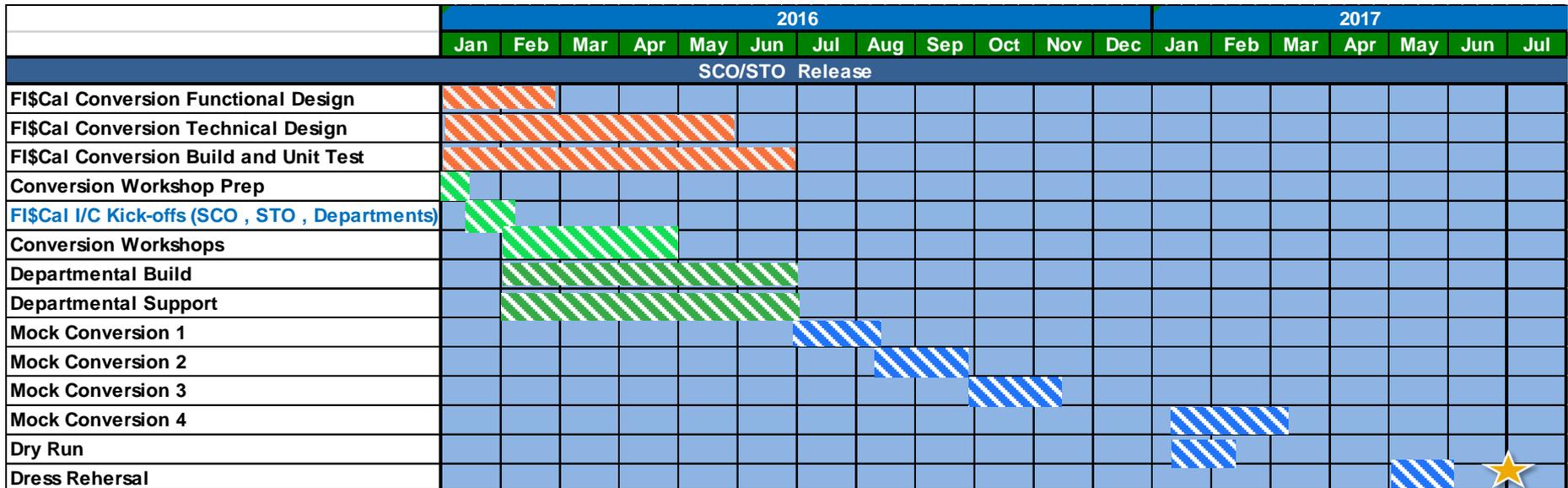


Interface Workshops will be conducted from Feb to Apr 2016

FI\$Cal Interface build is expected to complete by end of Jun 2016

SCO/STO will be involved in testing interfaces across 4 test cycles with FI\$Cal Project. Interface Testing kick-off is currently planned for Apr 2016 and will detail timelines and processes for interfaces testing.

R17 Conversion– Key Activities Timeline



Conversion Workshops will be conducted from Feb to Apr 2016 and includes layout review.

FI\$Cal Conversion build is expected to complete by end of Jun 2016.

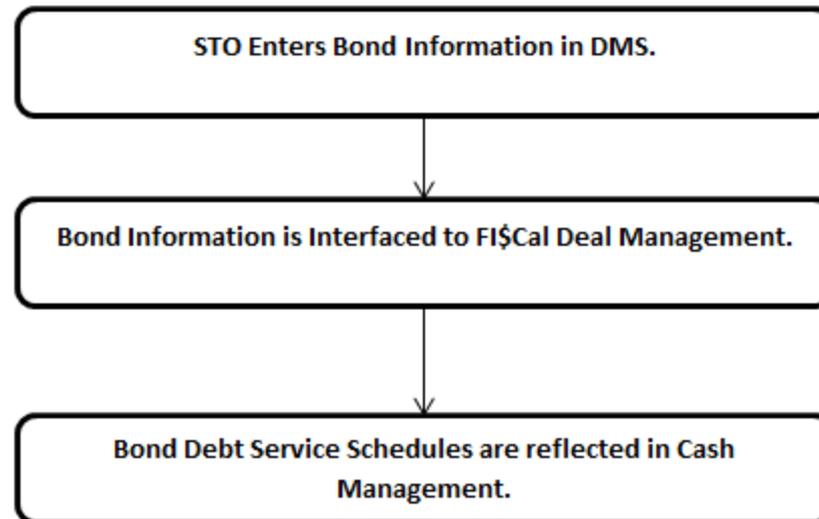
SCO/STO will be involved in Mock Conversion test cycles and data validation.

Conversion Testing kick-off is currently planned for May 2016 and will detail the cycles and data validation timelines and processes for Mock Conversion.

Interface Roles and Responsibilities

Activity	Team
Using the defined scope, identify the development objects for interfaces for the FI\$Cal Application.	FI\$Cal
Using the defined scope, identify the development objects for interfaces for the Legacy Applications.	STO
Understand mapping of legacy data elements to FI\$Cal data elements based on layout & mapping provided.	STO
Manage completion of FI\$Cal interface activities - Technical Design, Build, and Unit Test interfaces.	FI\$Cal
Manage and participate through completion of legacy interface activities - Technical Design, Build, and Unit Test interfaces.	STO
Functional and Integration Test activities, process the interfaces file within the FI\$Cal Application including evaluation of error and log files.	FI\$Cal
Resolve Interface Errors (Integration Test)	FI\$Cal & STO

Data Flow –DMS Interface



Interface Scope

INFDM001- GO - General Obligation

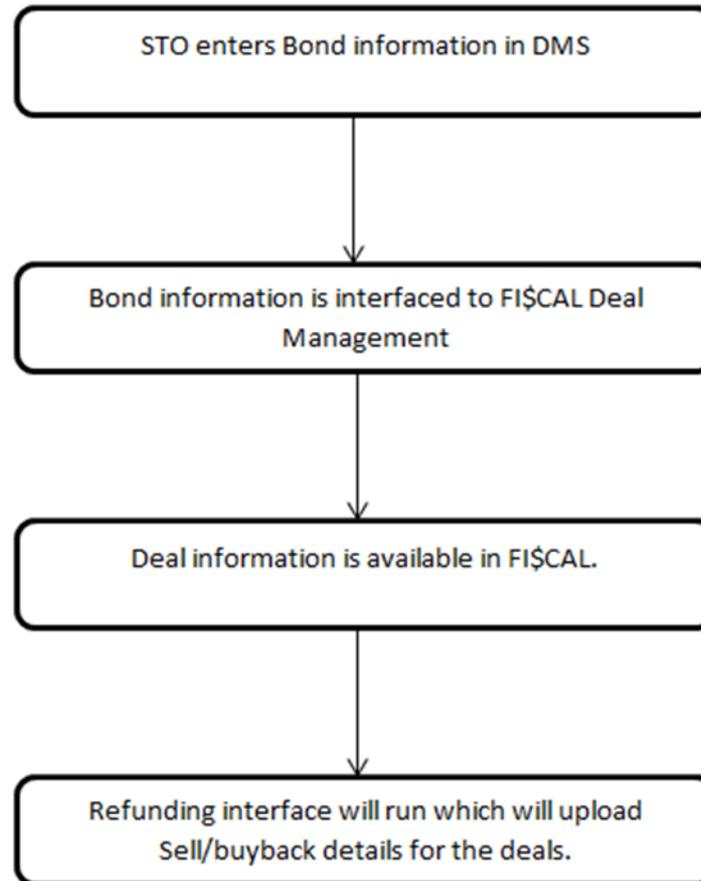
INFDM002 - LRB - Lease Revenue Bond

INFDM003 - Fees

INFDM005 - GB - General Bonds (For e.g. Revenue Bonds , Revenue Anticipation notes)

- Bonds are captured and recorded within STO's Debt Management System (DMS). After a bond proposition has been approved by the voters, or a bill has been enacted by the legislature, and the bond information is available in the Debt Management System (DMS), the bond will be interfaced into FI\$Cal with the appropriate bond accounting.
- Review Layout

Data Flow –Refunding Interface

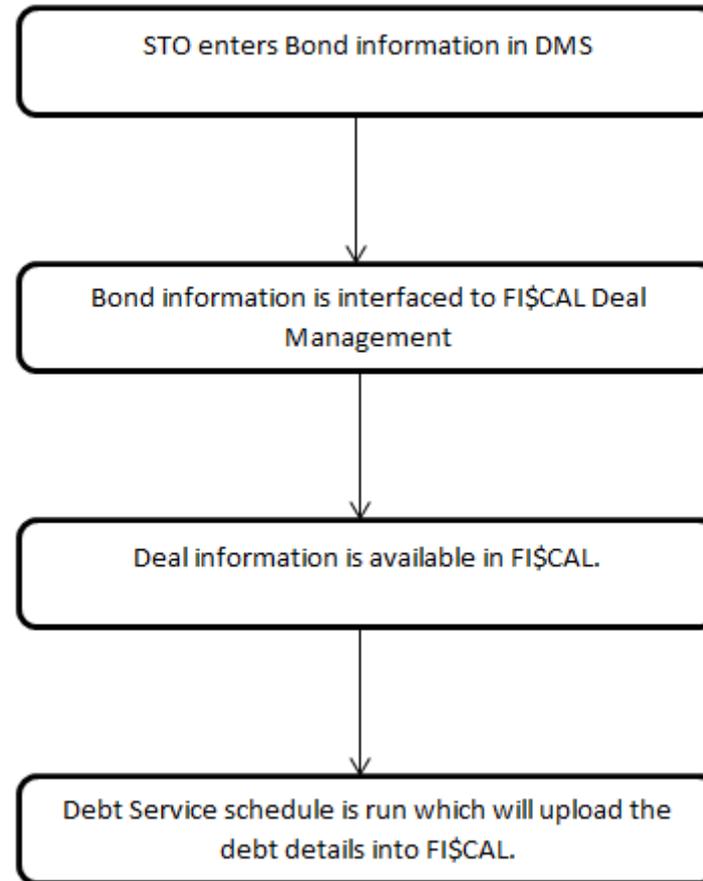


Interface Scope

INFDM004 - Refunding Interface

- The Refunding sub process is a variation of the standard Bond Sale (Non-Refunding) process, of which, establishes the accounting entries related to the refunding event.
- STO reviews existing debt and can potentially decide to refinance the State's debt by issuing a new refunding bond. This sub process differs from the Bond Sale process described above by recording the refunding of existing bonds.

Data Flow –Debt Service Schedule Interface

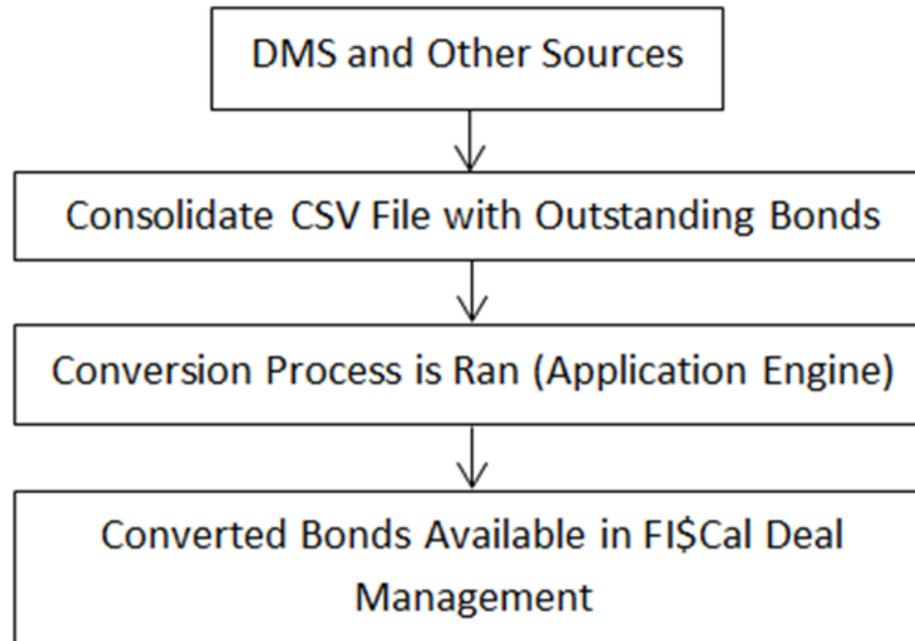


Interface Scope

INFDM006 - Debt Service Schedule Interface

- DM Interface will import Debt Service Schedule details from DMS (a legacy system in which deals/bonds data is maintained also known as Debt Management System) to PeopleSoft FI\$Cal Deal Management.
- The Debt Service Schedules for each Bond will account for principal and interest payments that are reflected in the Budget. These schedules are prepared by STO and reviewed by SCO.

Data Flow – Outstanding Bonds Conversion



Conversion Scope

CNVDM001- Outstanding Bonds Conversion

- Data from the STO DMS and ancillary systems that will be converted into the FI\$Cal PeopleSoft system will include all bond securities (CUSIPs) that are active and have not matured as of 06/30/2017.
- Inactive or matured bond securities will not be converted.
- Review Layout

Interface Test Objectives

Test Cycle	Primary Objectives
Interface Test Cycle 1	<ul style="list-style-type: none"> • Validate Interface programs/processes/layout
Interface Test Cycle 2	<ul style="list-style-type: none"> • End-to-end testing of Interfaces including testing of Business Processes involved in completing the life cycle of Interfaces. • Test additional Test Conditions as provided by Departments
Interface Test Cycle 3, 4	<ul style="list-style-type: none"> • End User validation of Interface data in the User Acceptance Environment.
Common Objectives across all Interface Test Cycles	<ul style="list-style-type: none"> • Test connectivity between FI\$Cal and Departments / Controlling Agency. • Provide Departments/Controlling Agency with data validation, File layout and format issues. • Fix Interface Programs on Department and FI\$Cal applications

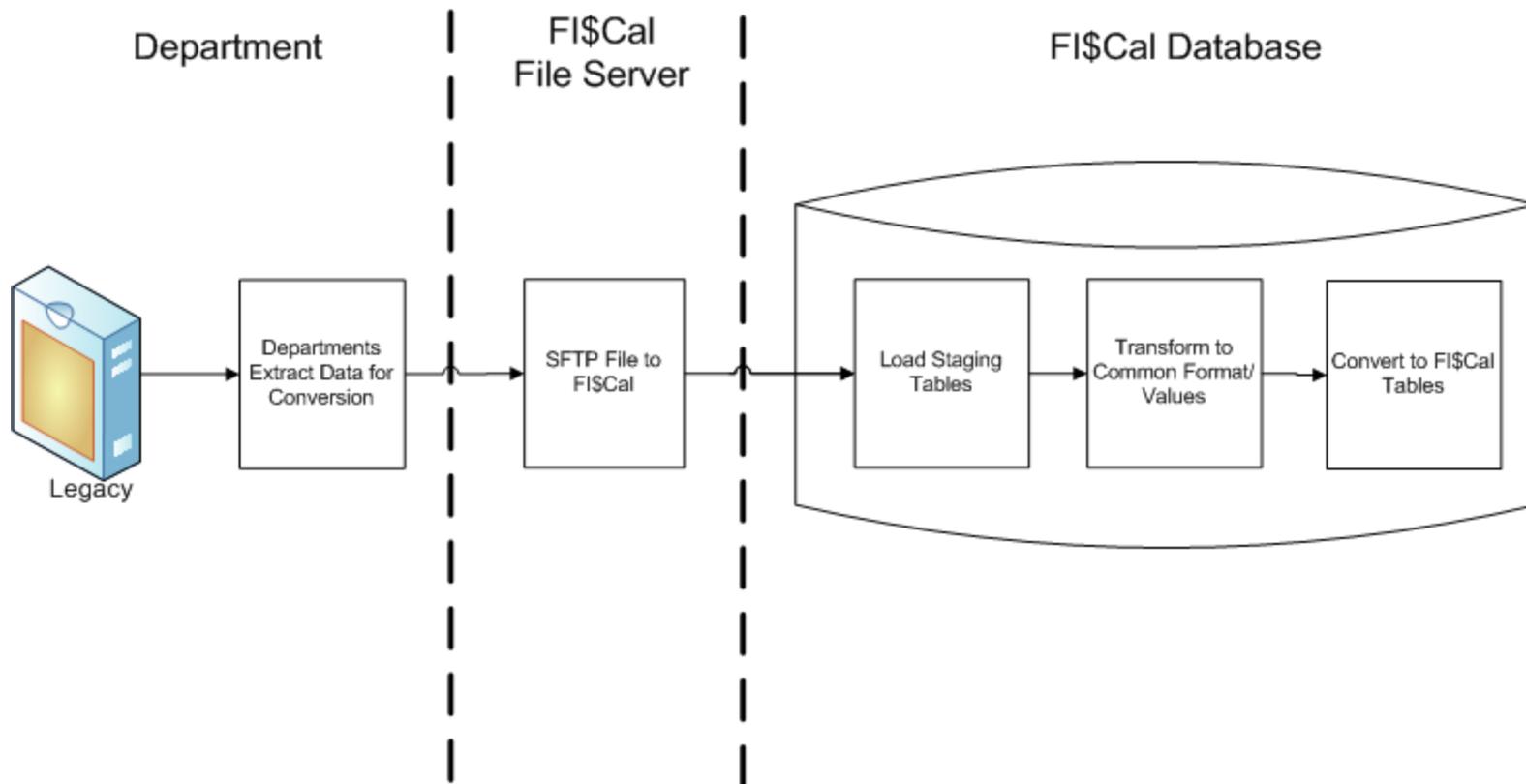
Interface Testing – STO Involvement

Activity	Primary Owner
Identify and Provide High Level Interface Test Scenarios/Conditions as executed in FI\$Cal to the Departments	FI\$Cal
Identify High Level Interface Test Scenarios/Conditions for Legacy application	STO
Identify / Create Test Scripts for Legacy application	STO
Process Interface test data including provision and processing of Interface files (Inbound/Outbound) for FI\$Cal application	FI\$Cal
Process Interface test data including provision and processing of Interface files (Inbound/Outbound) for Legacy application	STO
Execute Test Scripts for FI\$Cal application with Departmental Data	FI\$Cal
Execute Test Scripts for Departmental application with FI\$Cal data received via Outbound Interface	STO
Document Test Results and Defects for Legacy application	STO
Manage Defects and Defect resolution process in Legacy application	STO
Analyze Test Results and Resolve Defects for Legacy application	STO
Retest Defects for Executed Test Scripts for Legacy application	STO
Analyze Test Results and Resolve Defects for FI\$Cal application	FI\$Cal

Conversion Roles and Responsibilities

Activity	Team
Identify Data Source and Fields for Conversion Extract	STO
Extract Conversion Data from Legacy System to Files	STO
SFTP file to FI\$Cal	STO
Load Data to Staging Area	FI\$Cal
Identify Crosswalk Values	STO
Identify Staging / Validation Errors	FI\$Cal
Convert Data to FI\$Cal System	FI\$Cal
Identify Load Errors	FI\$Cal
Resolve Errors and Cleanse Data for next cycle	STO
Validate Converted Data (Dry Run, Dress Rehearsal, and Cutover)	STO

Conversion Data Flow



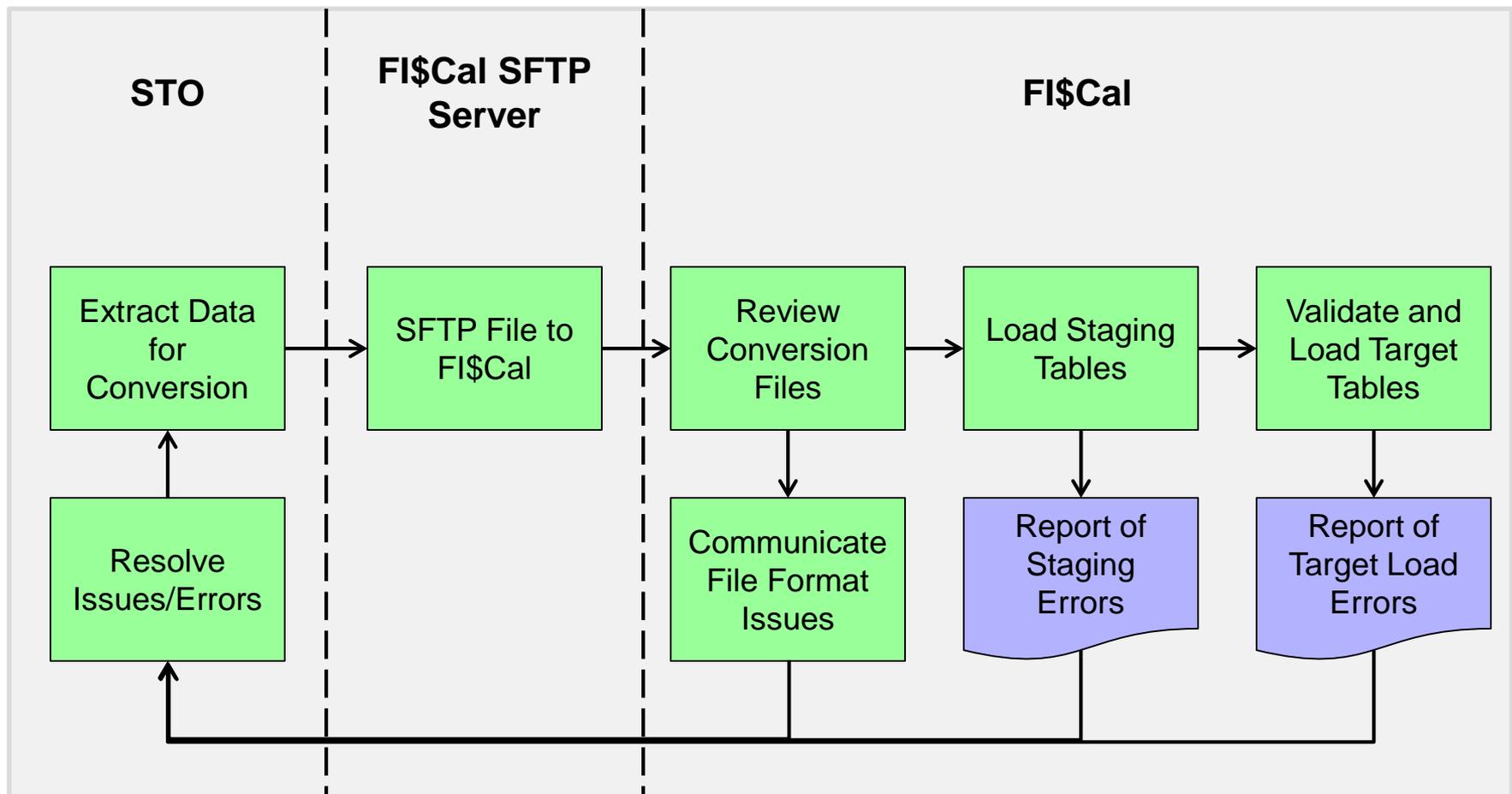
Conversion File Layout Overview

- **Change History Tab** – Tracks updates to the layouts
- **Guide Tab** – Provides overview and instructions for the layout
- **Department Response Tab** – Layout to be populated with data
 - **Grouping:** Logical grouping of related data elements in the layout
 - **PeopleSoft Field:** Technical name for the data element
 - **PeopleSoft Field Label:** Description of the PeopleSoft Field
 - **Field Type:** Indicates type of values allowed in the field (e.g. Character, Number, Date)
 - **Max Field Length:** Maximum length of values allowed
 - **Business Description:** Business details, instructions, defaults, etc. for populating the field
 - **Dependency:** Indicates related field in the same or another layout which must also be populated.
 - **Required?:** Indicates if field is required, conditionally required or optional
- **Field List Only Tab** – A different view of the list of fields in the layout. For informational purposes only.

Conversion Test Objectives

Test Cycle	Primary Objectives
Mock Conversion 1	<ul style="list-style-type: none"> • Convert actual STO data • Determine technical issues with files and process • Technical validation of conversion files • Confirm initial configuration setup in system • Communicate data/conversion issues to STO
Mock Conversion 2	<ul style="list-style-type: none"> • Fine tune conversion processes and programs • Address data/configuration kick-outs from Mock 1 • FI\$Cal business validation of converted data
Mock Conversion 3	<ul style="list-style-type: none"> • Fine tune conversion processes and programs execution time • Address data/configuration kick-outs from Mock 2 • Integrate conversion activities to cutover plan • Provide converted data for User Acceptance Testing
Dry Run	<ul style="list-style-type: none"> • Execute conversion activities within overall cutover • Perform STO data validation • Perform STO manual conversion activities
Dress Rehearsal	<ul style="list-style-type: none"> • Confirm ability to convert in the defined cutover window • Mimic actual production cutover (Day of week, time of day) • Perform STO data validation • Perform STO manual conversion activities • Determine mitigation for any remaining conversion issues

Conversion Testing Process



Conversion Testing – STO Involvement

Activity	Primary Owner
Extract Conversion Data from Legacy System to Files	STO
SFTP file to FI\$Cal	STO
Load Data to Staging Area	FI\$Cal
Identify Staging / Validation Errors	FI\$Cal
Convert Data to FI\$Cal System	FI\$Cal
Identify Load Errors	FI\$Cal
Resolve Errors and Cleanse Data for next cycle	STO
Manual Conversion (Dry Run and Dress Rehearsal)	STO
Validate Conversion Data (Dry Run and Dress Rehearsal)	STO

Dataflow Security Between FI\$Cal & STO for Interface and Conversion files

- STO will access FI\$Cal via Secure File Transfer protocols (SFTP) to deliver interface data from DMS.
- Secure File Transfer Protocol (SFTP) must be used to submit all Conversion files. DO NOT use email.
- Department Access to SFTP Server will be controlled by a Firewall, and user names and passwords.
- Each Department has their own secure password controlled file area
- Multiple employees per department can be given SFTP server access.
 - Departmental task to establish Secure File Transfer Protocol (SFTP) User Access
- Depending on your Departments IT policies, free FTP clients may be available for use (Filezilla, WinSCP, PsFtp, etc.)

Interface Next Steps

Build and Workshops

- FI\$Cal and STO to continue Technical Designs and Build till July 2016
- Determine Batch processing timelines for DMS Interface
- To identify if additional Interface to capture data outside of DMS might be required or existing Interface can be leveraged.
- **Access and Data files**
- STO and FI\$Cal to coordinate for connectivity and access for FI\$Cal SFTP during March to Jul 2016
- STO to provide test data files for Unit Testing purpose for better validation of Interfaces in Unit Testing during March to Jun 2016

Interface Next Steps

Interface Testing

- STO to identify Test Environments in Department to conduct the Interface testing which starts in July 2016
- Develop Legacy Test scripts, data conditions & exceptions that need to be tested based on review of existing and to be business processes from March to June 2016
- Identify Test conditions to be tested in FI\$Cal based on review of existing and to be business processes from March to June 2016

FI\$Cal Support

- Attend FI\$Cal scheduled touchpoints or support sessions during March to Jun 2016 to understand progress, testing updates and next steps

Conversion Next Steps

- STO to review Layouts and Field Level Requirements
- STO to begin Design and Build Activities for Data extract programs
- STO to review Data Cleansing options and perform Data Cleansing as identified prior to Mocks which start in June 2016
- STO to attend FI\$Cal touch points for Conversions
- Complete Departmental task to get FI\$Cal SFTP access to identified resources

Questions/Additional Information



FI\$Cal Project Information:

<http://www.fiscal.ca.gov/>

or e-mail questions to the FI\$Cal
Project Team at:

fiscal.cmo@fiscal.ca.gov