



One state. One system.

Interfaces and Conversions Testing Kick-off

2017 Release Departments

November 2016



Agenda

Testing Kick-off Objectives

FI\$Cal Interfaces and Conversions Timeline

Conversions Data Flow and Testing Timeline

Conversions Process and Demo

Conversions Next Steps

Interfaces Data Flow and Testing Timeline

Interfaces Process and File Submission

Interfaces Next Steps

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Testing Kick-off Objectives

- Provide an overview of the Interface and Conversion activities planned for the July 2017 Release
- Explain the Interfaces and Conversions testing timeline
- Explain the Interfaces and Conversions testing process
- Explain next steps Departments must take to get ready for Interface and Conversion testing activities

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2017 Release Departmental Activities

Department Mobilization and Readiness

Enables departments with people, tools, and other resources to prepare their department for FI\$Cal and to ensure a successful transition. This includes setting up a Department Implementation Team (DIT) to coordinate the completion of all tasks and activities.

Business Processes

Provides departments with information about FI\$Cal business processes, along with tools and FI\$Cal Project Team support to identify change impacts and update internal department business processes.

Configuration

Allows departments to define values for specific items in FI\$Cal (e.g., list of ship-to locations). Most configuration values apply to Chart of Accounts and Labor Distribution.

Interfaces and Conversions

Interfaces: Allow departments to electronically send or receive data from departmental systems that will continue to be used with FI\$Cal.

Conversions: Allows departments to extract, cleanse and validate data from legacy systems that will be replaced by functionality in FI\$Cal.

Role Mapping

Allows departments to assign security roles to all department end users based on their job requirements and the type of work they will perform in FI\$Cal. Security roles define what users can see and do in FI\$Cal.

Departmental Testing

Provides departments with the opportunity to complete common transactions in FI\$Cal in order to validate that the system performs as planned.

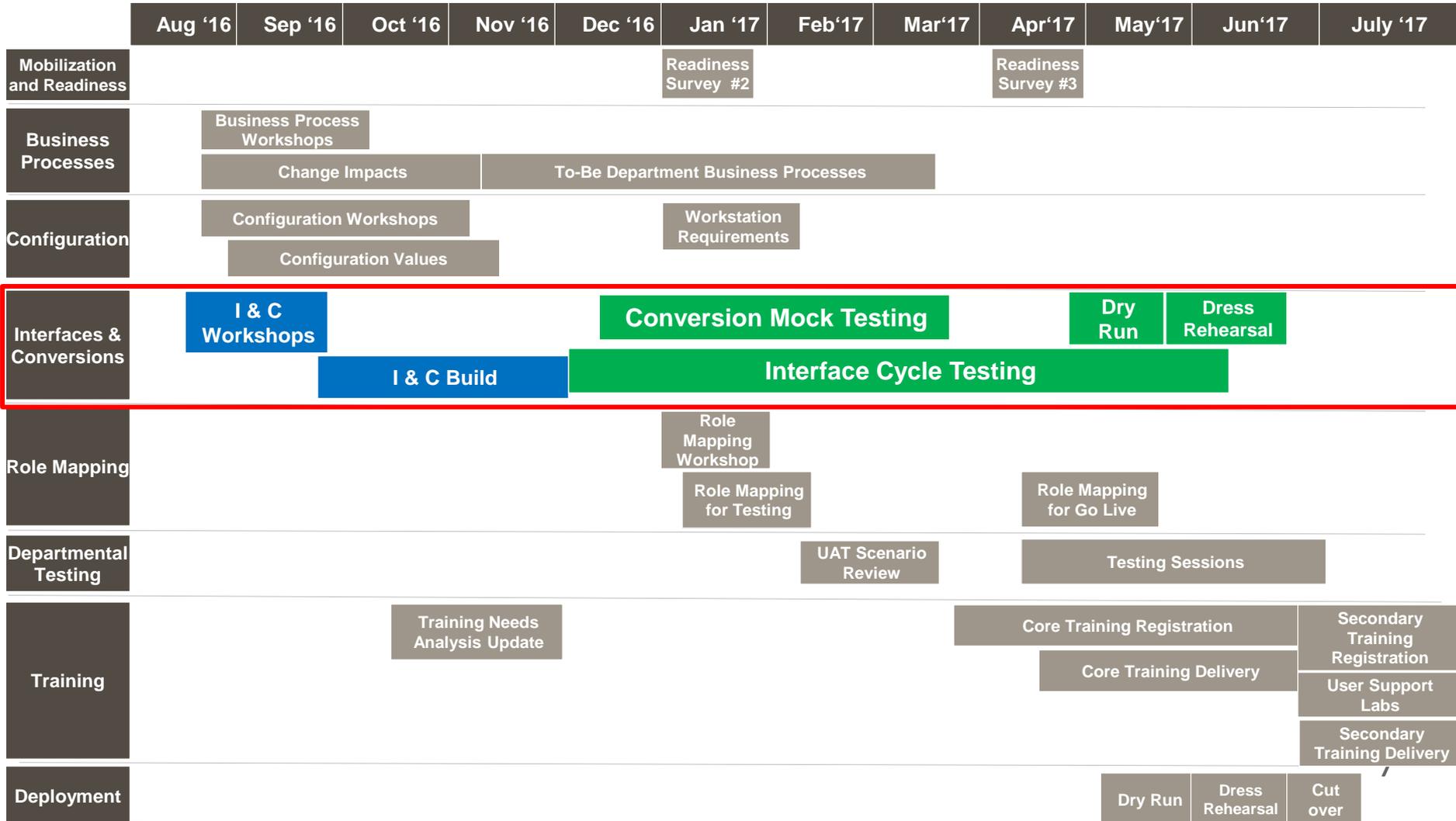
Training

Provides department end users with the knowledge and skill to perform transactions in FI\$Cal. Training courses are offered via web-based and instructor-led options.

Deployment

Prepares departments to fully transition to using FI\$Cal as part of their day-to-day business. This includes practicing activities the way they will happen right before the system goes live.

2017R Departmental Activities Timeline



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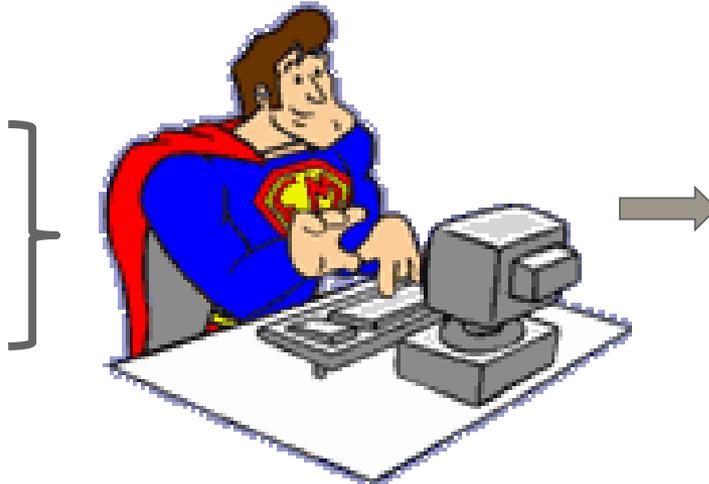
Interfaces Data Flow and Testing Timeline

Interfaces Process and File Submission

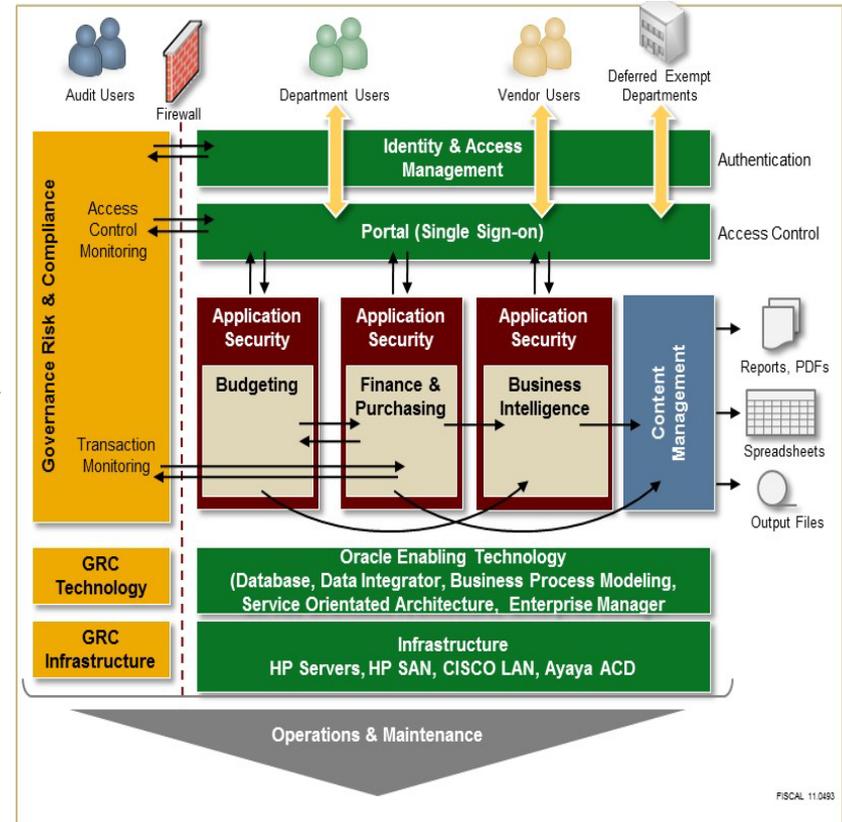
Interfaces Next Steps

Conversion Data Flow – Manual Entry

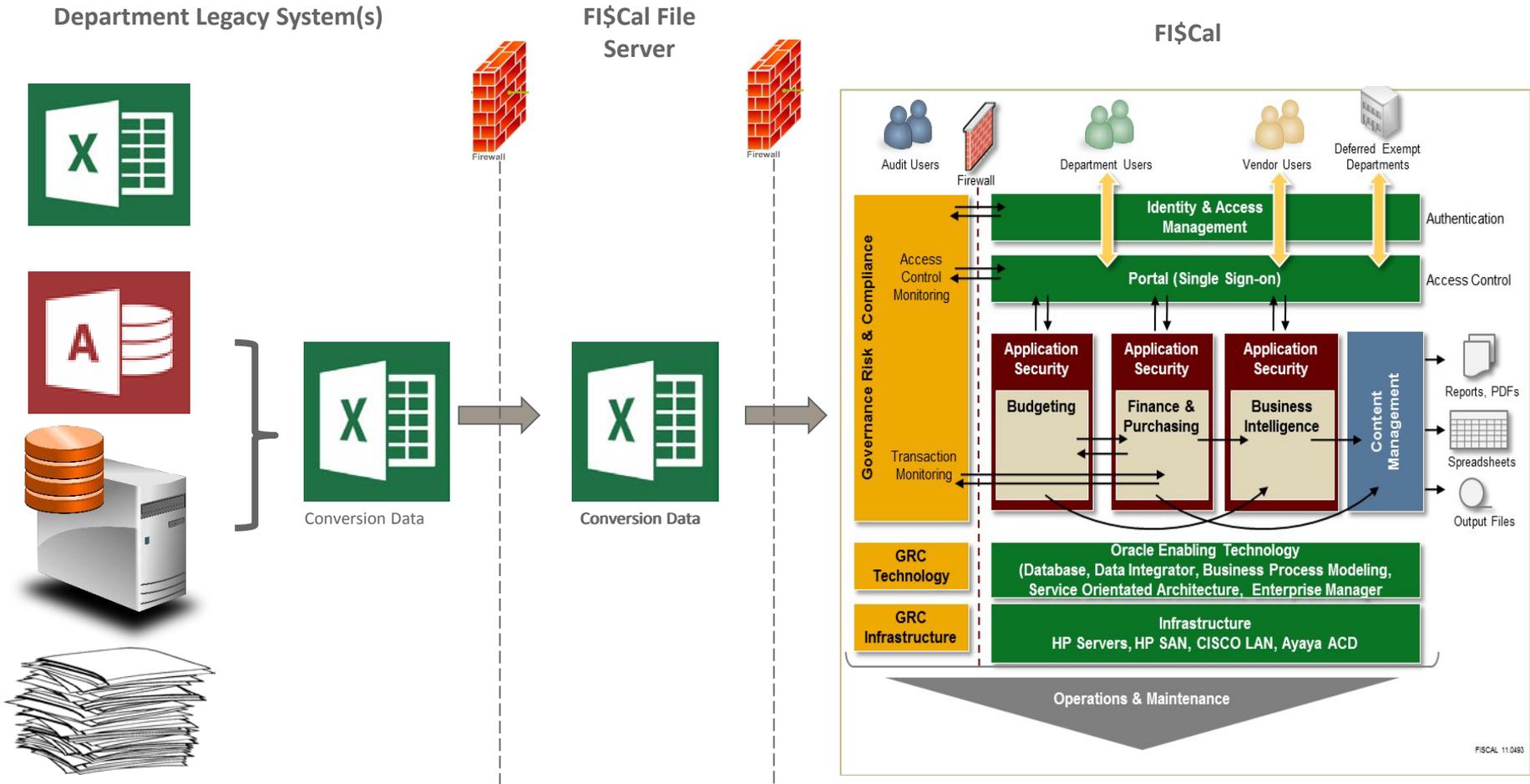
Department Legacy System(s)



FI\$Cal



Conversion Data Flow - Automatic



Conversion Testing	Dec 2016	Jan 2017	Feb	Mar	Apr	May	Jun
Mock 1	12/15 – 1/20						
Mock 2		1/23 – 2/17					
Mock 3			2/20 – 3/17				
Dry Run						4/24 – 6/2	
Dress Rehearsal							6/2 – 6/23

2017 Departments Release Conversion Testing

- Departments will participate in five (5) conversion test cycles before final cutover to Production
- Each test cycle starts with submission of new set of conversion files
- Each test cycle has quality thresholds which must be met
- Departments may need to submit files (with corrections) multiple times in each test cycle in order to meet the quality thresholds

Conversion Testing	Dec 2016	Jan 2017	Feb	Mar	Apr	May	Jun
Mock 1	12/15 – 1/20						
Mock 2		1/23 – 2/17					
Mock 3			2/20 – 3/17				
Dry Run						4/24 – 6/2	
Dress Rehearsal							6/2 – 6/23

Mock 1 Conversions

- Conversion files are due by December 15, 2016
- Departments must submit actual, full data set for each conversion file
- Mock is focused on identifying initial set of layout issues, data issues, and configuration issues
- Issues identified in Mock 1 are worked during the mock and as prep for the next mock

Conversion Testing	Dec 2016	Jan 2017	Feb	Mar	Apr	May	Jun
Mock 1	12/15 – 1/20						
Mock 2		1/23 – 2/17					
Mock 3			2/20 – 3/17				
Dry Run					4/24 – 6/2		
Dress Rehearsal							6/2 – 6/23

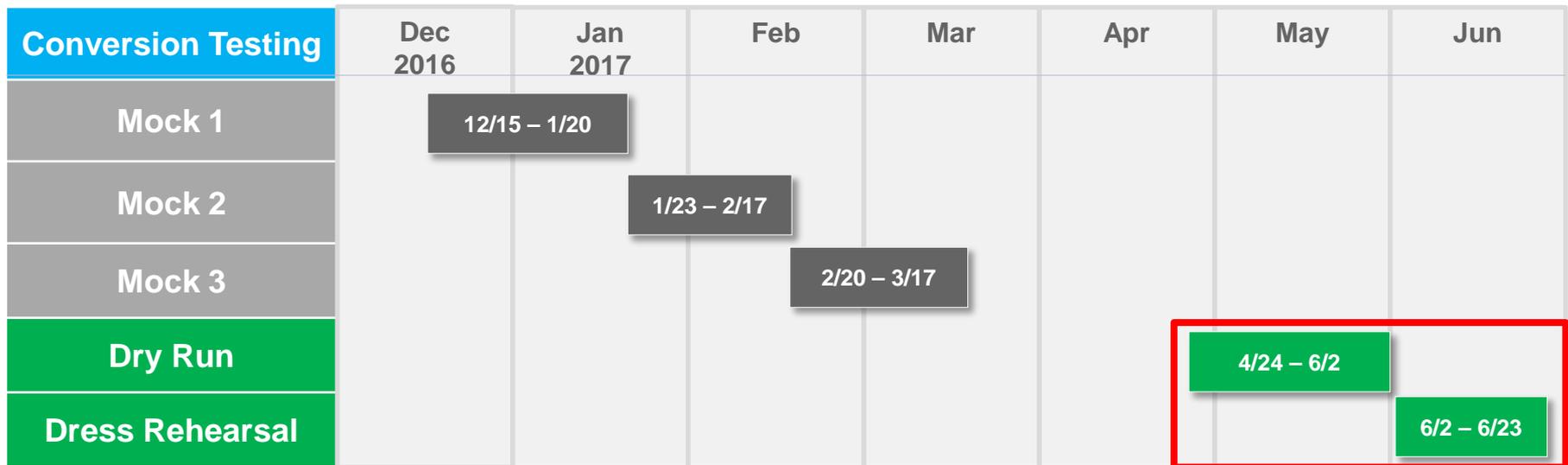
Mock 2 Conversions

- Conversion files are due February 1, 2017
- Departments must submit actual, full data set for each conversion file
- Mock is focused on addressing issues identified in Mock 1 and increasing the quality of the data in the conversion files

Conversion Testing	Dec 2016	Jan 2017	Feb	Mar	Apr	May	Jun
Mock 1	12/15 – 1/20						
Mock 2		1/23 – 2/17					
Mock 3			2/20 – 3/17				
Dry Run					4/24 – 6/2		
Dress Rehearsal							6/2 – 6/23

Mock 3 Conversions

- Conversion files are due March 1, 2017
- Departments must submit actual, full data set for each conversion file
- Mock is focused on addressing issues identified in Mock 2 and increasing the quality of the data in the conversion files
- Mock 3 conversion data is used for User Acceptance Testing (UAT) by Departments



Dry Run and Dress Rehearsal Conversions

- Conversions are part of the overall Dry Run and Dress Rehearsal activities as readiness for Cutover into Production
- Dry Run and Dress Rehearsal are much shorter in duration compared to the Mock conversions
- Departments validate converted data and/or test manual entry of conversion data at FI\$Cal with support from the Conversion Team
- Additional details will be shared as part of Transition to FI\$Cal readiness

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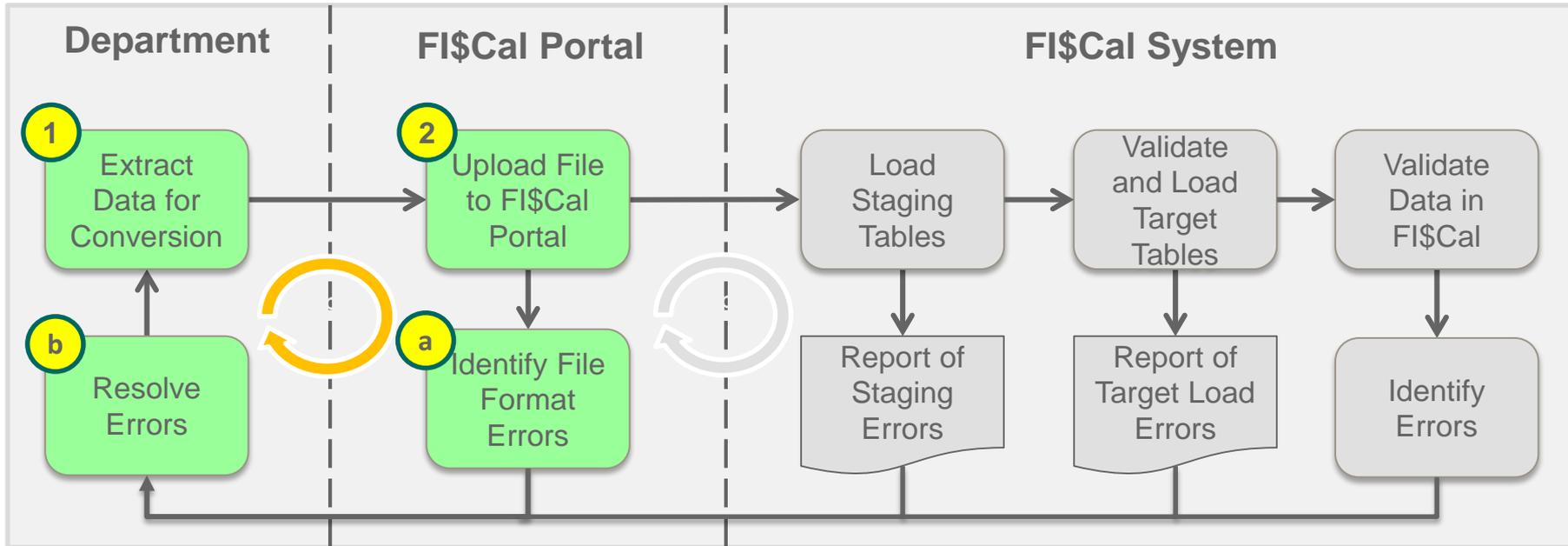
Conversions Next Steps

Interfaces Data Flow and Testing Timeline

Interfaces Process and File Submission

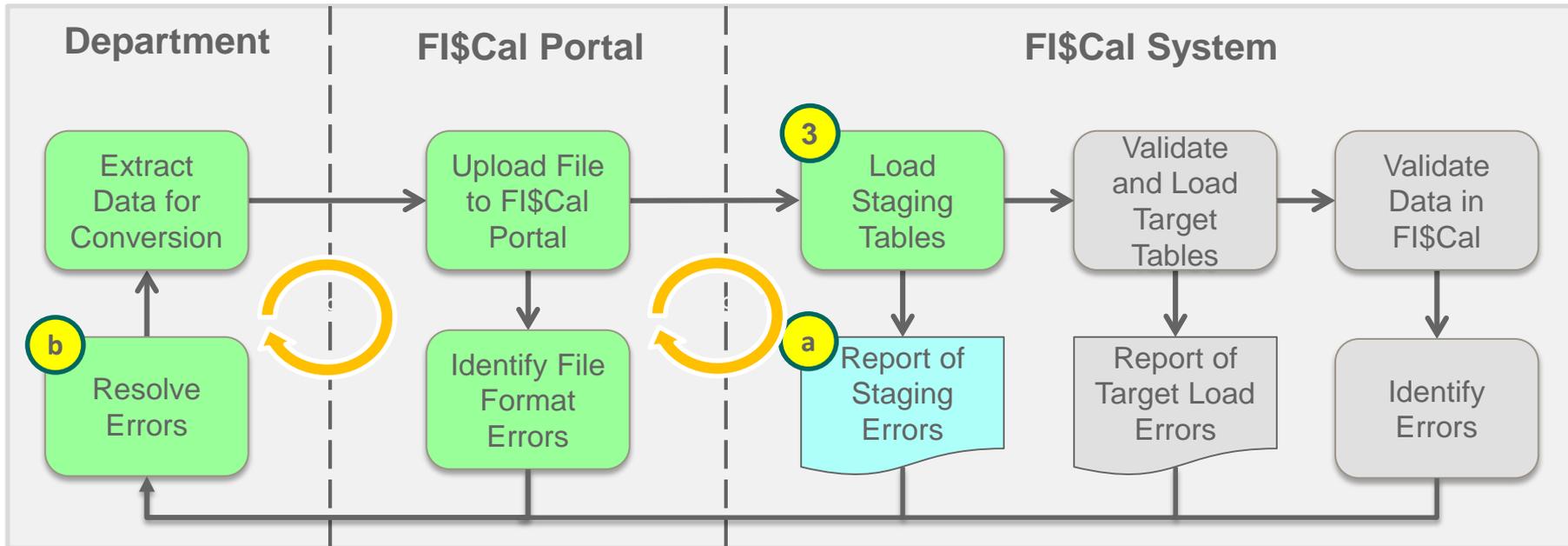
Interfaces Next Steps

FI\$Cal Conversion Process



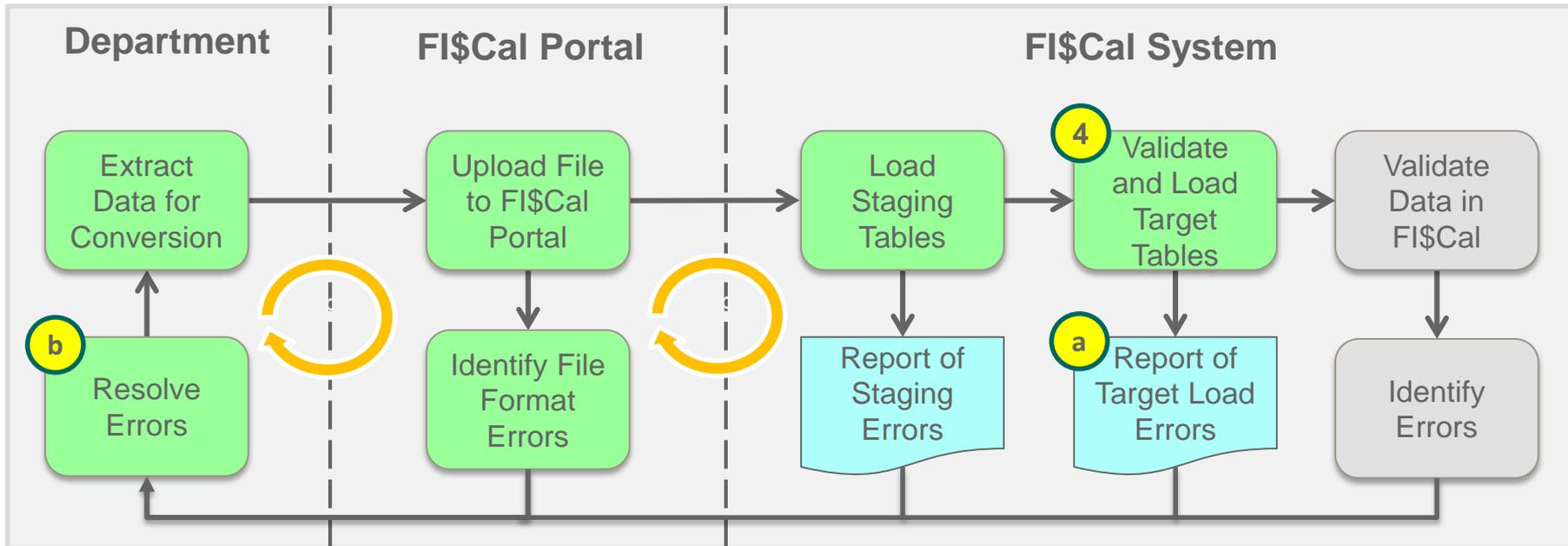
Step xRef	Action
1	Department extracts data from legacy system(s) and populates conversion layout
2	Department uploads layout to FI\$Cal Conversion Portal
2a	Department reviews file format errors
2b	Department corrects the errors and starts the process again. Once file errors have been resolved, Department submits the file for staging

FI\$Cal Conversion Process



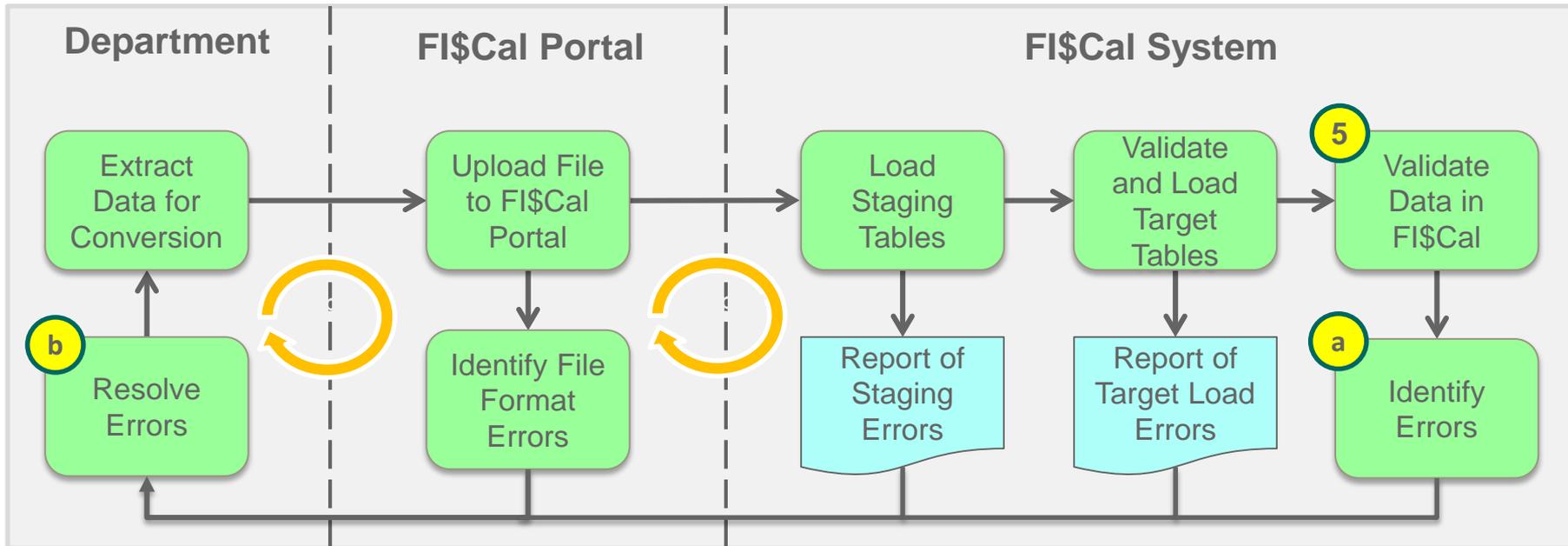
Step xRef	Action
3	FI\$Cal Conversion Team loads the conversion file into FI\$Cal database staging tables
3a	Conversion program generates an error file for any transactions which failed staging. Conversion Team notifies the Department on what/how to correct
3b	Department corrects the errors and resubmits the file

FI\$Cal Conversion Process



Step xRef	Action
4	FI\$Cal runs process to further validate data against business rules and configurations before loading into target application database tables
4a	Conversion program generates an error file for any transactions which failed business / config validations. Conversion Team notifies the Department on what/how to correct
4b	Department corrects the errors and resubmits the file

FI\$Cal Conversion Process



Step xRef	Action
5	FI\$Cal Conversion and Business Teams, and Department (in Dry Run and Dress Rehearsal) validate the converted data in the FI\$Cal application
5a	FI\$Cal Conversion and Business Teams, and Department identify errors
5b	FI\$Cal corrects FI\$Cal application/program errors and Department corrects legacy data errors for the next cycle

Conversions Quality Thresholds

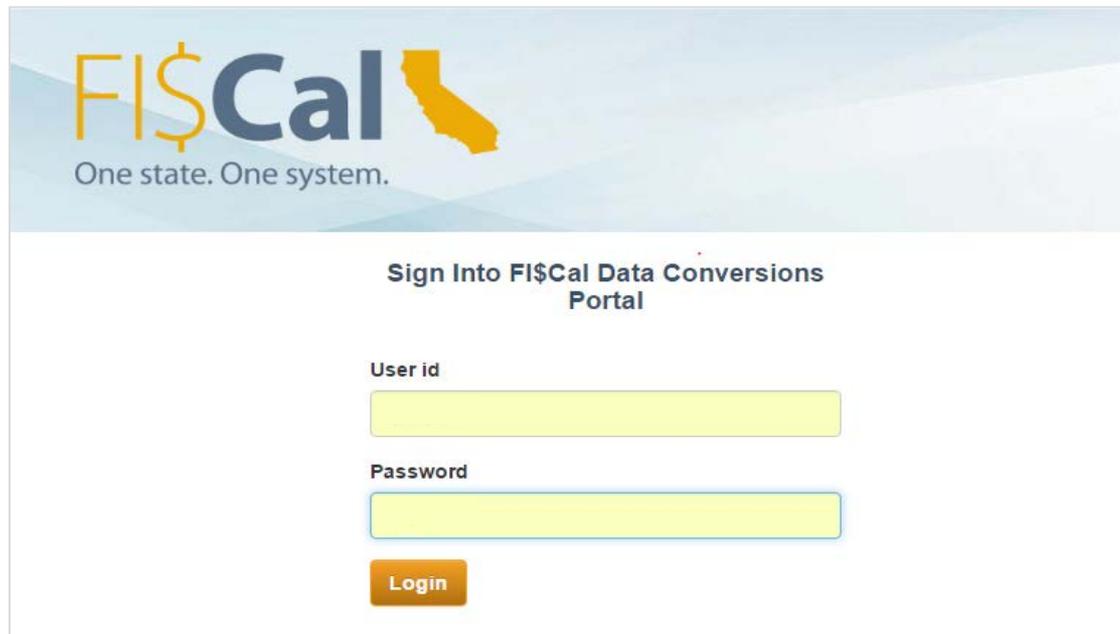
- Overall objective of the multiple conversion test cycles is to improve the conversion processes and the quality of the data for the final cutover into production
- Each conversion test cycle has a target quality threshold for the staging step and the validation step prior to loading
- FI\$Cal Conversion Team will assist the Departments with understanding the errors and how to correct the errors. If a Department is not able to meet the quality % within the test cycle, FI\$Cal will move forward with loading of the available 'clean' data. Any kickouts will be tracked, reported and will need to be addressed for the next cycle
- Transactions which fail to load during Cutover will have to be manually entered by the Department post go-live

Cycle	Target Staging %*	Target Validation / Load %*
Mock 1	50%	25%
Mock 2	75%	50%
Mock 3	90%	80%
Dry Run	95%	90%
Dress Rehearsal	95%	90%
Cutover	95%	90%

* Target % for staging and validations steps represents the percentage of transactions which pass each step out of the total # of transactions submitted for the specific conversion layout

FI\$Cal Conversion Portal Demo

- Departments will submit conversion files through the FI\$Cal Data Conversions Portal



The screenshot shows the login interface for the FI\$Cal Data Conversions Portal. At the top, the FI\$Cal logo and tagline 'One state. One system.' are displayed. Below this, the text 'Sign Into FI\$Cal Data Conversions Portal' is centered. The form contains two input fields: 'User id' and 'Password', both with yellow backgrounds. A blue 'Login' button is positioned below the password field.

- Portal link, credentials information and job aid will be available by December 5, 2016

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Conversions Next Steps

- Complete build and test of legacy conversion extract programs
- Attend Conversion Support Sessions @ FI\$Cal on Tuesdays and Thursdays for support and questions
- Continue to complete the weekly TECH745x I/C Department Readiness Status task
- Start to use the FI\$Cal Conversion Portal between December 5 – 15 to identify and address file layout/data issues
- Submit clean set of conversion files by **5pm, Thursday, December 15, 2016**
- Always download the latest layouts from the Department Liaison Network (DLN) Corner (<https://dln.fiscal.ca.gov/login.aspx>) for each conversion cycle

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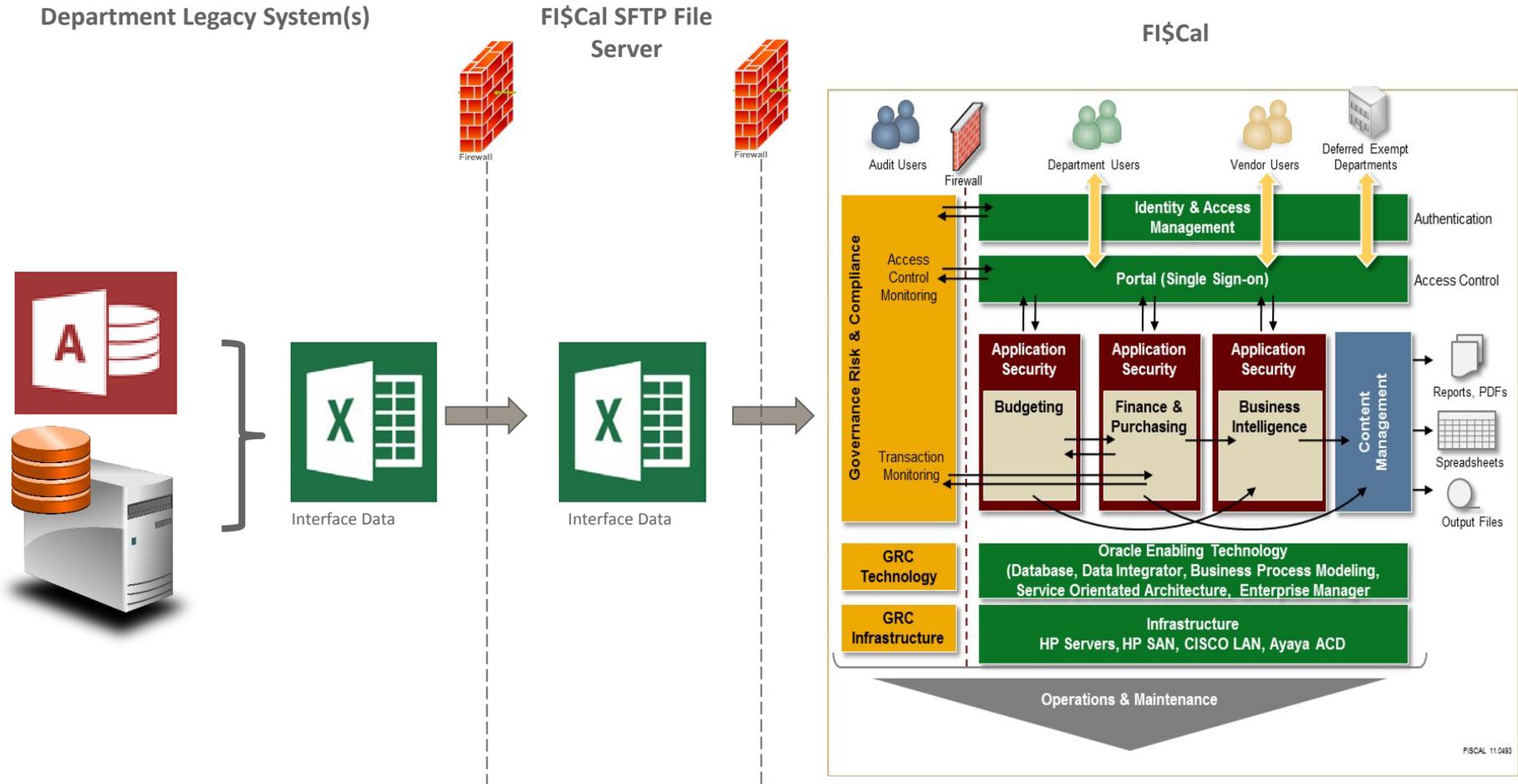
Conversions Next Steps

Interfaces Data Flow and Testing Timeline

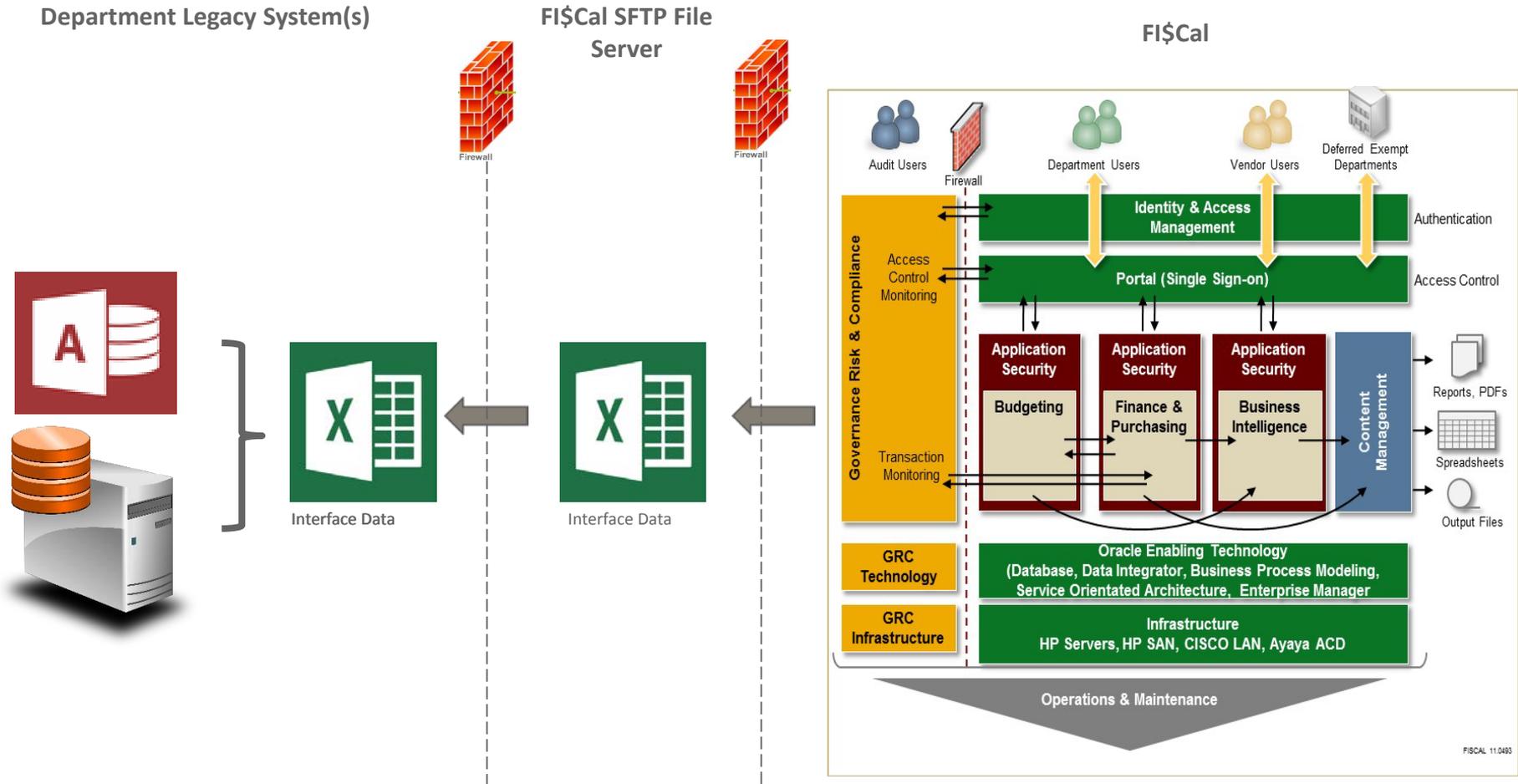
Interfaces Process and File Submission

Interfaces Next Steps

Interface Data Flow – Inbound to FI\$Cal



Interface Data Flow – Outbound from FI\$Cal



Interface Testing	Dec 2016	Jan 2017	Feb	Mar	Apr	May	Jun
Cycle 1	12/5 – 1/20						
Cycle 2		1/23 – 4/21					
Cycle 3					4/24 – 6/16		

2017 Departments Release Interface Testing

- Departments will participate in three (3) interface test cycles before final cutover to Production
- Each test cycle starts with submission of new set of interface files
- Each test cycle has specific test objectives
- Departments may need to submit files (with corrections) multiple times in each test cycle in order to meet the test objectives of the cycle

Interface Testing	Dec 2016	Jan 2017	Feb	Mar	Apr	May	Jun
Cycle 1	12/5 – 1/20						
Cycle 2		1/23 – 4/21					
Cycle 3					4/24 – 6/16		

Interfaces Cycle 1 Testing

- Test files for interfaces inbound into FI\$Cal are due by December 5, 2016
- Cycle 1 is focused on testing connectivity between the Department and FI\$Cal and confirming the accuracy of the interface file layouts (instead of data)
- Test files for interfaces outbound from FI\$Cal will be provided to Departments on a rolling basis within Cycle 1
- Departments must process and load FI\$Cal files into Departmental systems to test Departmental interfaces

Interface Testing	Dec 2016	Jan 2017	Feb	Mar	Apr	May	Jun
Cycle 1	12/5 – 1/20						
Cycle 2		1/23 – 4/21					
Cycle 3						4/24 – 6/16	

Interfaces Cycle 2 Testing

- Test files for interfaces will be due per a defined schedule
- Cycle 2 is focused on testing the end to end business functionality and process with departmental interface data
- Each interface file will be accompanied by an Interface Test Data Sheet detailing the covered scenarios and expected outcomes
- Departments must process and load FI\$Cal files into Departmental systems to test Departmental interfaces

Interface Testing	Dec 2016	Jan 2017	Feb	Mar	Apr	May	Jun
Cycle 1	12/5 – 1/20						
Cycle 2		1/23 – 4/21					
Cycle 3					4/24 – 6/16		

Interfaces Cycle 3 Testing

- Test files for interfaces will be due per a defined schedule
- Cycle 3 is part of the User Acceptance Test (UAT) phase of the project. Data from interfaces will be used as part of the testing conducted in FI\$Cal and Departmental systems
- Interface Test Data Sheets will be required for Cycle 3
- Departments must process and load FI\$Cal files into Departmental systems to test Departmental interfaces

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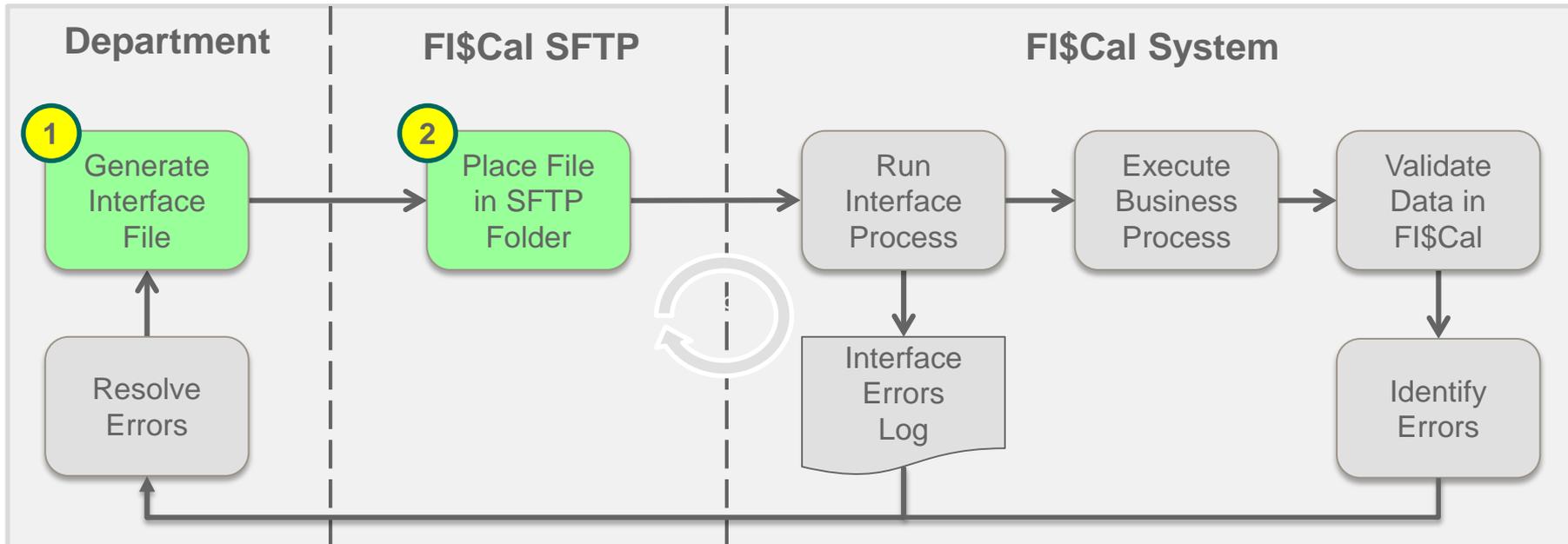
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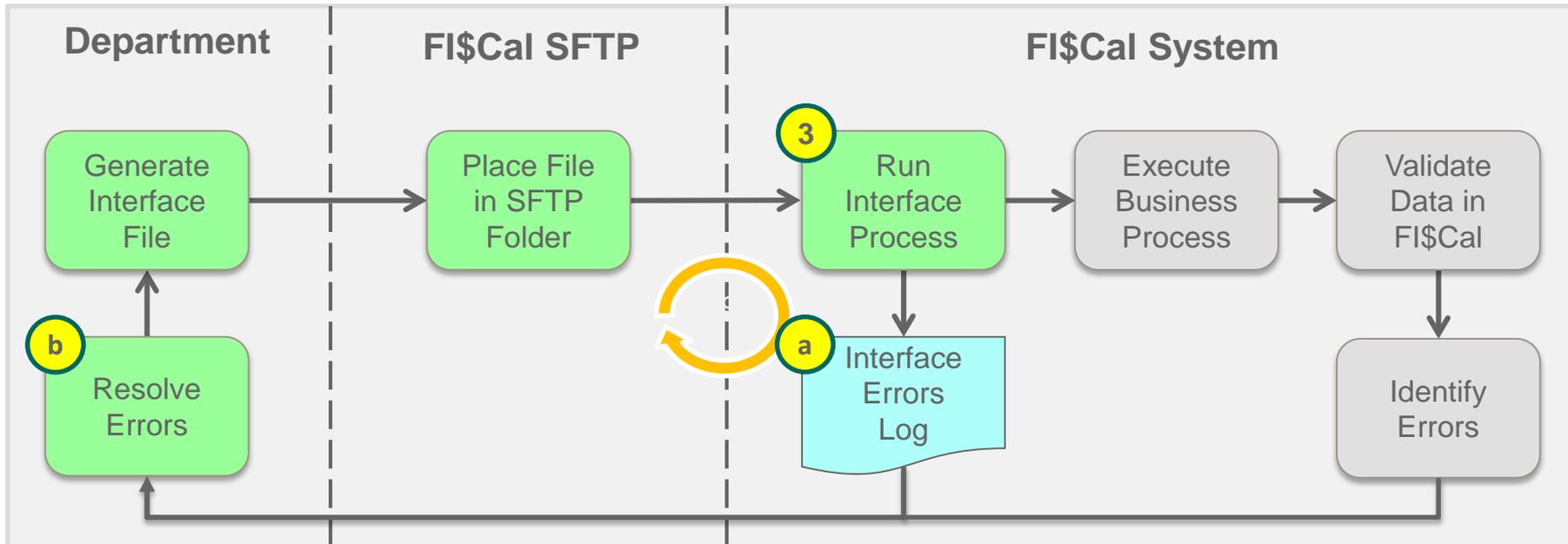
Interfaces Next Steps

FI\$Cal Interfaces Process - Inbound



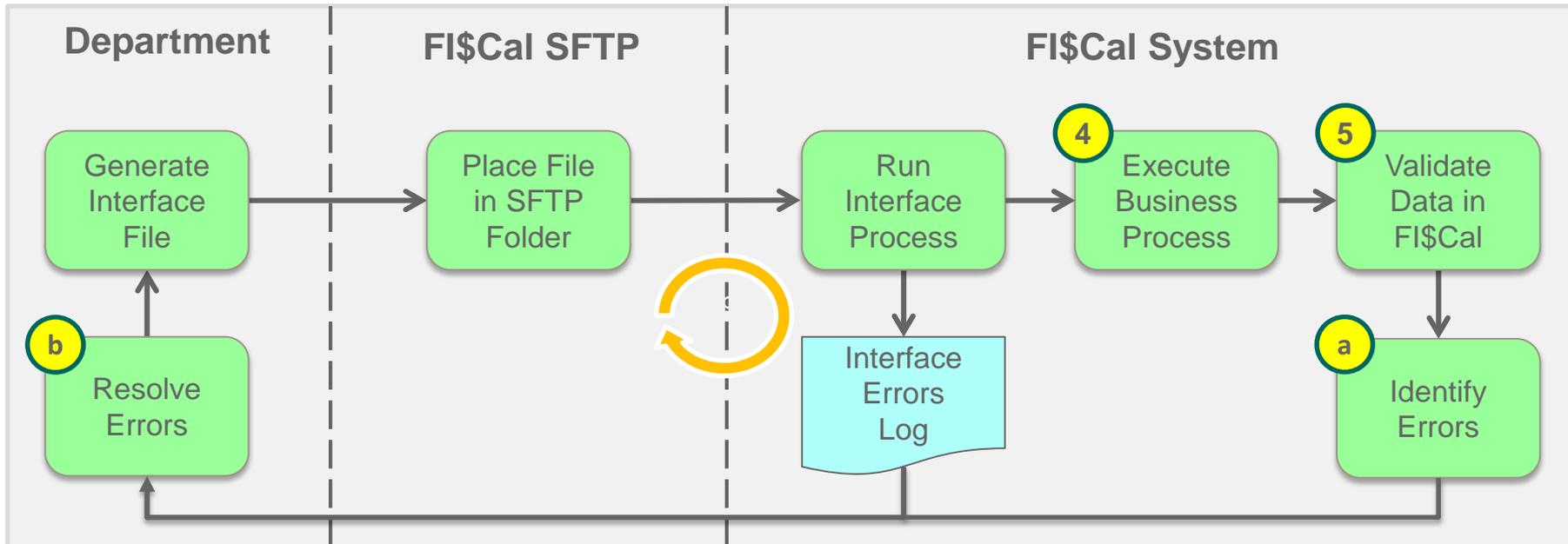
Step xRef	Action
1	Department stages data in Departmental system and runs interface process to generate the interface test file
2	Department places the interface test file in the interface folder on the FI\$Cal SFTP server. For Cycles 2 and 3, Department also creates and submits a data sheet

FI\$Cal Interfaces Process - Inbound



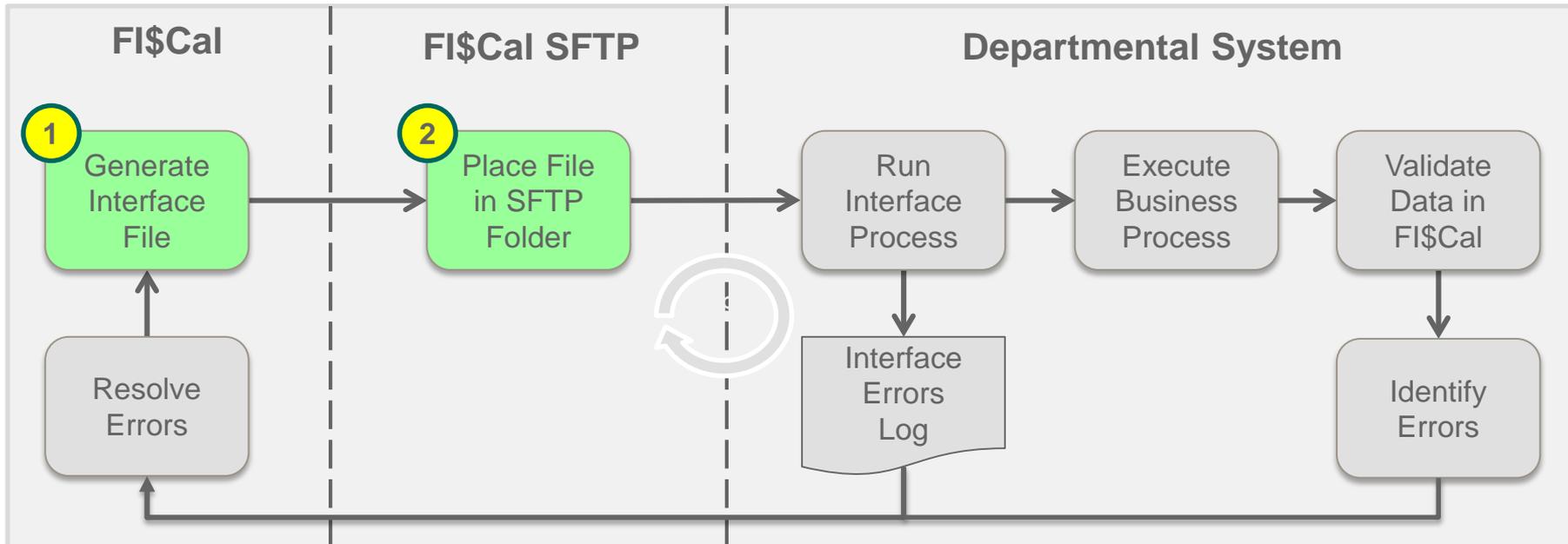
Step xRef	Action
3	FI\$Cal Team runs the FI\$Cal interface program to process the Departmental test file
3a	Interface program generates an error file for any transactions which failed. Interface Team notifies the Department on what/how to correct
3b	Department corrects the errors and resubmits the interface test file

FI\$Cal Interfaces Process - Inbound



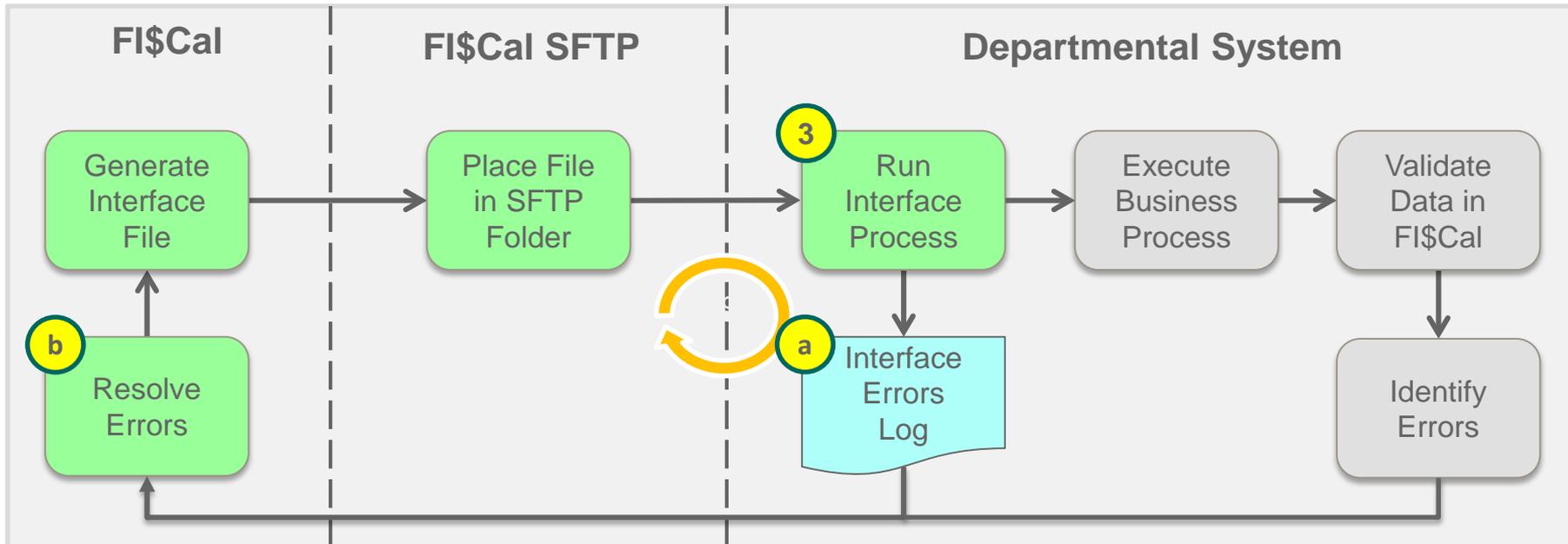
Step xRef	Action
4	FI\$Cal Team (or the Department in Cycle 3) runs the associated business process steps/functions in FI\$Cal to process the interface test data
5	FI\$Cal Team (or the Department in Cycle 3) validates the data in FI\$Cal
5a	FI\$Cal (and Department) identify errors
5b	FI\$Cal corrects FI\$Cal application/program errors and Department corrects Department program/data errors for the next cycle

FI\$Cal Interfaces Process - Outbound



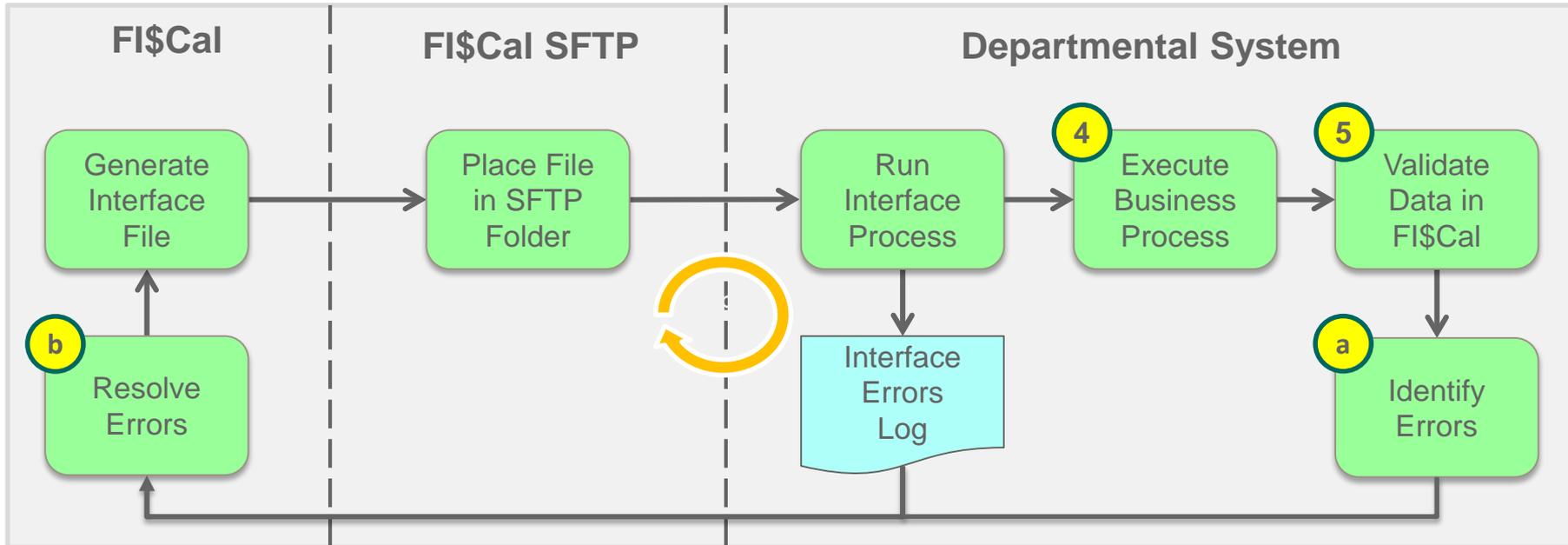
Step xRef	Action
1	FI\$Cal stages data in FI\$Cal and runs interface process to generate the interface test file
2	FI\$Cal places the interface test file in the interface folder on the FI\$Cal SFTP server. For Cycles 2 and 3, FI\$Cal also creates and submits a data sheet

FI\$Cal Interfaces Process - Outbound



Step xRef	Action
3	Department runs the Department interface program to process the FI\$Cal test file
3a	Interface program generates an error file for any transactions which failed. Department notifies FI\$Cal on what to correct
3b	FI\$Cal corrects the errors and resubmits the interface test file

FI\$Cal Interfaces Process - Outbound



Step xRef	Action
4	Department runs the associated business process steps/functions in Departmental System to process the interface test data
5	Department validates the data in the Departmental System
5a	Department identify errors and notifies FI\$Cal
5b	FI\$Cal corrects FI\$Cal application/program errors and Department corrects Department program/data errors for the next cycle

FI\$Cal Interfaces – File Submission

- Departments will submit and receive interface test files through SFTP
- Each Department’s SFTP folder structure for interfaces is setup as follows:

<dept>

/interfaces

/err

/am003
/am006
/...



Error and summary log files generated by each interface will be placed in the specific interface folder

/in

/am003
/am006
/...



Departments will place test files for interfaces inbound to FI\$Cal in the specific interface folder

/out

/am004
/am005
/...



FI\$Cal will place test files for interfaces outbound to the Departments in the specific interface folder

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Interfaces Next Steps

- Complete build and test of Departmental interface programs
- Attend Interface Support Sessions @ FI\$Cal on Tuesdays and Thursdays for support and questions
- Continue to complete the weekly TECH745x I/C Department Readiness Status task
- Confirm Department has access to SFTP
- Submit interface files via **SFTP** for interfaces inbound into FI\$Cal by **5pm, Monday, December 5, 2016**

Questions & Answers



FI\$Cal Project Information:

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

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

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