

## CMS Wave Interface Testing Approach

### Overview

Interface Testing will test end-to-end business requirements to verify the connections of Florida PALM with other business systems. The Project will coordinate with interface partners, identified as a part of TECH72, during the test planning, preparation, and execution. Interface partners include enterprise partner systems, third parties, and agencies that are expected to directly interface with Florida PALM.

### Objectives

The objectives of the Interface Testing for Florida PALM are:

- Validating end-to-end Florida PALM functionality against business requirements and business processes with interface partners, while incorporating delivered processes, interfaces, and batch processes.
- Validating the flow of data between Florida PALM and interface partners, start to finish, and confirming the data can be transmitted successfully through various interfaces.

### Cycles and Scripts

Interface Testing will be conducted by identifying test cycles, developing test scenarios, and writing test scripts for execution.

- Test cycles organize test scenarios into logical groupings for segmented testing.
- Test scenarios explain what to test and how to carry out the test at a high-level.

Test scenarios will be reviewed with interface partners during meetings to confirm a thorough test for data exchange within the business process. The proposed activities and testing cycles with interface partners are outlined in Table 1.

### Agency Interface Testing Activities

*Table 1: Interface and Integration Activities and Testing Cycles*

Activity	Description
Internal Interface Design, Build, and Unit Test	MRW task TECH74 – Agencies were advised to create their own project plan for their agency’s design, build, and unit test activities. Agencies should use the revised Interface Layouts and Interface Connection Inventory when completing these activities.
Share Public IPs	MRW task TECH78 - Interface partners will be requested to share public Internet Protocols (IPs) of their business systems which will exchange data with Florida PALM. The Project will need this information in advance of Florida PALM interface testing, planned to begin in November 2020.
Share Managed File Transfer Approach	MRW task TECH79 - Interface partners will receive the Project’s Managed File Transfer (MFT) Approach.

Receive Managed File Transfer Credentials	MRW task TECH83 - Interface partners will be provided credentials for Florida PALM's MFT solution in advance of interface testing.
Cycle 1- Connectivity Testing	The Connectivity Testing cycle will validate the following: <ul style="list-style-type: none"> <li>• Interface partners can access their designated Florida PALM MFT folders.</li> <li>• Interface partners can only access the appropriate MFT folders.</li> <li>• Interface partners can programmatically place and retrieve files in the appropriate MFT folders.</li> </ul> Interface partners will complete this cycle of testing before proceeding to the next cycle. The MRW will be used to communicate these tasks to interface partners.
Cycle 2 – Technical Testing	The Technical Testing cycle will build upon the Connectivity Testing cycle and validate that Florida PALM can process files with interface partners. This cycle will validate the following: <ul style="list-style-type: none"> <li>• The Florida PALM interface architecture is functioning properly.</li> <li>• Interface partners can programmatically process Florida PALM outbound files.</li> <li>• Interface partners can programmatically utilize the data from Florida PALM outbound files to update their business systems (i.e., they can utilize Florida PALM data values in the appropriate inbound files).</li> <li>• Florida PALM can programmatically process inbound files from interface partners.</li> <li>• Interface error processing is working as designed, and interface partners can programmatically correct errors via interface, where applicable.</li> </ul> The MRW will be used to communicate these tasks to interface partners.
Cycle 3 – Functional Testing	The Functional Testing cycle will be used to process Production-level data from end to end. Cycle 3 testing will be performed by the Project Team.