PAYE Modernisation
Public Interface Testing
13 October 2017
Purpose of Public Interface Testing (PIT)

• Verifies that software **conforms** to published Revenue technical documentation
• Successful execution of **conformance tests** gives confidence to all parties involved that solution is correct and robust
Revenue Preparation for PIT
Dedicated PIT Environment

- A dedicated PIT environment will be provided exclusively for PAYE Modernisation
- Will be performant to support testing of production sized volumes
- Will facilitate a more rapid turnaround of upgrades and fixes
Dedicated Online Helpdesk

- Revenue will provision an online Helpdesk to support Payroll Software Developers through the PIT process
  - Replaces current email driven PIT processes
- The Helpdesk will facilitate Payroll Software Developers
  - Registering for PIT
  - Raising and tracking ticketed queries
Detailed Conformance Test Documentation

• Will detail test scenarios supported in PIT
• Will detail corresponding test data requirements
• Will provide recommendations on adding identifiers to tests to facilitate troubleshooting
Registering for PIT
Registration Process

• PIT registration will take place via the new Online Helpdesk

• Completing the PIT registration process:
  – notifies Revenue of your intention to test
  – triggers Revenue to start provisioning your exclusive digi-cert and test data.
  – grants you access to raise ticketed queries
Registration Requirements

- Complete Online form providing the following information:
  - Company Name
  - Contact Name
  - Contact Number
  - Contact Email address
  - Create Username
  - Create Password
  - Additional Information
Notification of Registration

• On completion of registration an email will be issued to the given Contact email address notifying:
  – Confirmation of registration
  – Instructions on accessing allocated PIT Digi Cert and Test data (if required)
Testing
Four Phases of Conformance Test

1. Connectivity Testing
   • SOAP or REST (or both)

2. Basic Business Process Testing
   • Repeatable (stateless)
   • e.g. Look Up RPN, Submit Payroll

3. Complex Life Cycle Testing
   • Requires reset of test data for repeatable runs (stateful)
   • e.g. Check Payroll Run

4. Volume Testing
   • Requires live-size files and associated test data
   • e.g. Batched Payroll Submissions

Recommendation is that testing is conducted in this order
Test Data Management

• To avoid GDPR complications only dummy test data will be supported
• Appropriate Test Data will be made readily available:
  • Dummy Digi-certs
  • Dummy Employers
  • Dummy Employees
Test Data Management

- Revenue will pre-allocate a unique set of dummy test data to each registered user.
- Pre-allocated test data will meet the requirements of all conformance test scenarios with the exception of Volume Testing.
- Test data to support Volume testing will be made available on request.
- ‘Used’ test data can be reset on request.
Employer Testing

• PIT will not have access to copies of live data to support pre-live runs
• Revenue can set up dummy test data given an Employer number and a set of PPSNs
• Generic RPNs will be generated for the given PPSNs
Queries

• Consult online documentation first
  – Common Issues
  – Known Errors List
• If solution/answer is not available a query can be raised via the online Helpdesk.
• You will receive an acknowledgement email with a query Id for tracking purposes
• Only registered PIT users can raise queries in this manner.
Queries

• Revenue will issue a notification email on resolution of the query or if the query turns out to be a Revenue issue
• If the query turns out to be a Revenue issue the Known Errors List will be updated
Regular Communications

- Known Error Lists and solutions to common PIT issues will be published and regularly updated online.
- Timely notifications of forthcoming PIT upgrades and maintenance will be made available on Revenue.ie.
- Equivalent notifications will also be emailed to registered PIT users.
Timelines
Timelines

Publication of Conformance Test Docs
• End of Jan 2018

PIT Environment Available
• End of March 2018

Registration Commences
• March 2018

Employer Testing Commences
• TBC