

APEL Publisher Test Plan

EMI Component Description and Version

The new APEL Publisher uses the APEL client database (populated by the APEL parsers) to generate accounting information, and sends it to the APEL server using the APEL SSM.

This test plan is suitable for APEL Publisher v4.1.0.

Installation and configuration

Follow the instructions from the EMI APEL Publisher System Administrator Guide.

Unit Tests

Unit tests are available with the APEL source code.

Deployment Tests

APEL Publisher is installed on its own machine, and is independent of other components except the APEL parsers.

Configuration Tests

- A log file is created when the client script runs
- The logging to the console option works
- Incorrect database details are handled correctly
- Each section of the client workflow can be disabled using the appropriate configuration
- Omitted site_name and lrms_server configurations are handled correctly
- Incorrect LDAP connection details are handled correctly
- An incorrect directory path is handled by the unloader

System Tests

Basic Functionality Tests

LDAP

- Correct information is retrieved by the LDAP query

Joining

- Grid jobs are created when the necessary data is available
- Local jobs are created when the necessary data is available and the option is selected

Unloader

- The latest, gap and all options are producing the appropriate records
- The send_ur option produces CAR records correctly
- The send_ur option fails gracefully for the summaries table
- The include_vos and exclude_vos options provide the correct filtering
- The sync records generated match the options selected

SSM

- The default SSM configuration operates correctly when enabled
- SSM finds all messages created by the unloader.

Regression Tests

- #101023: tested by CAR validator (see below)
- #101024: Tested by new unit test

Performance and Scalability Tests

No performance tests have been defined.

Standard Compliance and Conformance Tests

- CARs generated by the APEL client pass the CAR validator.

Inter-component Tests

The only components with which the APEL client interacts are the APEL client database and SSM.