

# **Test Plan**

**for**

# **Lightweight Education Data Bay Area**

**Version 1.0 approved**

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## Revision History

Name	Date	Reason For Changes	Version
ALL	2025/5/03	None	1.0

# 1. Objectives

## 1.1 Modules under test

This test focuses on the **Register Organization** use case, implemented in the OConvener class within the user subsystem. It covers the creation of organization accounts and management of associated services.

## 1.2 References

SE\_SDW\_Lightweight Education Data Bay Area Long Description V2.3

# 2. Testing levels and methods

## 2.1 Testing levels

This is primarily **unit testing** for the OConvener methods, along with limited **integration testing** to verify the interaction with services and activity logging.

## 2.2 Testing methods

This use case is tested using **black-box testing** techniques:

- **Equivalence Partitioning:** Valid vs invalid service additions;
- **Boundary Value Testing:** Empty service name, duplicate additions;
- **State Testing:** Verifying service list before and after operations.

# 3. Test cases

<i>Test ID</i>	<i>Test case description</i>	<i>Expected result</i>
<i>TC-STU-01</i>	<i>Open the student record page</i>	<i>The page loads successfully and displays the student query form.</i>
<i>TC-STU-02</i>	<i>Submit valid student info ("Brian Chen", "S20230002")</i>	<i>Record is found and response contains enroll_year.</i>
<i>TC-STU-03</i>	<i>Submit invalid student info ("Fake Name", "WrongID")</i>	<i>No record is found; response does not contain enroll_year.</i>
<i>TC-STU-04</i>	<i>Submit valid student info under SSL connection</i>	<i>Record is found, but SSL warning appears (potential connection issue).</i>

### *Test plan for Lightweight Education Data Bay Area*

## 4. Error report

Test case ID	Expected result	Actual result
SSL_ERROR_SSL Connection Issue	The page loads successfully without SSL errors or warnings.	Encountered SSL warning: SSL_ERROR_SSL: error:14077102:SSL routines:SSL23_GET_SERVER_HELLO:unsupported protocol.

## 5. Appendix

