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**ODBC2KML**

**Acceptance Test Plan**

**Version 1.1 – 4 Dec. 2009.**

**Revision History**

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| --- | --- | --- | --- |
| **Date** | **Version** | **Description** | **Author** |
| 10/27/2009 | 1.0 | Sections 1 & 2 | All Team Members |
| 10/29/2009 | 1.0 | Section 3 | All Team Members |
| 12/4/2009 | 1.1 | Sections 3.34, 3.41-3.47 | Richard Sween |
|  |  |  |  |
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# 1. Introduction

## 1.1 Purpose

The purpose of this document is to develop a testing schema to ensure the validity of the operational system. The intended audience is the client at ERDC-ITL, development, and testing teams at PolyTech.

## 1.2 Scope

This document is intended to describe the testing plan for the ODBC2KML project. This includes all features as specified in the SRS.

## 1.3 Definitions, Acronyms, and Abbreviations

AJAX – Asynchronous JavaScript and XHTML

ASP – Active Server Pages

ATP – Acceptance Test Plan, this document

ATR – Acceptance Test Report

GUI – Graphic User Interface

KML – Keyhole Meta Language

ODBC – Open Database Connectivity

SRS – Software Requirement Specification

## 1.4 References

[1]. IEEE Computer Society. IEEE 829-1998. Institute of Electrical and Electronics Engineers, Inc, New York, NY. 1998.

[2]. ERDC-ITL. ERDC Request for Proposal. August 2009.

[3]. PolyTech Industries. PolyTech Proposal V. 1.0. September 2009.

[4]. PolyTech Industries. PolyTech Project Plan V. 1.0. September 2009.

[5]. PolyTech Industries. PolyTech Concept of Operations V. 1.1. October 2009.

[6]. PolyTech Industries. PolyTech Software Requirements V. 1.0. October 2009.

# 2. Test Plan

## 2.1 Test Plan Identifier

Test cases will be identified with a unique code beginning with TC and ending with a two digit number. Future ATP documents for this software project will be identified with a TC2, then a TC3, and so on as needed.

## 2.2 Introduction

### 2.2.1 Objectives

The objective of this test plan is to provide a detailed process to validate the system functionality of the ODCB2KML system. It will also be used to find bugs in the system.

### 2.2.2 Scope

This test plan applies to the entire ODBC2KML system.

## 2.3 Features to be tested

1. Create Connection
2. Edit Connection
3. Delete Connection
4. View Connection
5. Map database fields to KML fields
6. View Values from Database Tables
7. Set Description
8. Insert field value into KML description
9. Insert picture into KML description
10. Upload an Icon from User’s Computer
11. Upload an Icon from the web
12. Add an icon to the connection
13. Select Icon overlay color
14. Set icon condition
15. Generate KML from Web Service
16. Generate KML from Web Application
17. Retrieve an image from a web service
18. Preview KML on Google Maps

## 2.4 Features not to be tested

* None

## 2.5 Approach

This test plan will adopt the black box method to test this product. Test engineers will design input data and expected results based on documents configuration management provides. All test results will be recorded and submitted to project manager.

## 2.6 Item pass/fail criteria

For every input to a function, the function should produce the expected output.

## 2.7 Suspension criteria and resumption requirements

### 2.7.1 Suspension Criteria

Not applicable.

### 2.7.2 Resumption requirements

Not applicable.

## 2.8 Test Deliverables

The test deliverables include the ATR, which describes whether each test case passed or failed.

## 2.9 Environmental needs

### 2.9.1 Hardware

Testing will occur on the test team’s personal laptops.

### 2.9.2 Operating system

The operating system used by the server will be Microsoft Windows Server 2003. The testers will be running Microsoft Windows based operating systems.

## 2.10 Staffing and training needs

Two software testers will be required to test the system.

## 2.11 Schedule

Testing will be performed between January 2010 and April 2010.

## 2.12 Risks and contingencies

- Hardware failure

- Risk: Loss in productivity.

- How to avoid: Having backup systems available for continued work on the project.

## 2.13 Approvals

The testing plan will be approved by the project manager, Sivakumar Kulasekaran.

# 3. Test Case Specification

## 3.1 Test Valid Connection

|  |  |
| --- | --- |
| Test Case Identifier | TC01 |
| Purpose of Test | Test that the system can connect to the database. |
| Prerequisite Test Case(s) | None |
| Test Input |  |
| Expected Result | System displays message, “Database successfully connected.” |
| Test Procedure | 1. User browses to Create or View Connection pages. 2. User enters required database information as specified in Test Input. 3. User clicks “Connect.” 4. System displays message, “Database successfully connected.” |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

## 3.2 Test Invalid Connection

|  |  |
| --- | --- |
| Test Case Identifier | TC02 |
| Purpose of Test | Test that the system correctly handles invalid database connection information. |
| Prerequisite Test Case(s) | None |
| Test Input |  |
| Expected Result | System displays message, “Could not connect to database.” |
| Test Procedure | 1. User browses to Create or View Connection pages. 2. User enters required database information as specified in Test Input. 3. User clicks “Connect.” 4. System displays message, “Could not connect to database.” |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

## 3.3 Successful Field Mapping

|  |  |
| --- | --- |
| Test Case Identifier | TC03 |
| Purpose of Test | Test that the system can successfully validate proper field mappings. |
| Prerequisite Test Case(s) | TC01 |
| Test Input |  |
| Expected Result | System displays a green check next to field mapping signifying that the field mapping is good. |
| Test Procedure | 1. User selects the first field from Test Input. 2. User selects the second field from Test Input. 3. System displays a green check next to field mapping. |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

## 3.4 Unsuccessful Field Mapping

|  |  |
| --- | --- |
| Test Case Identifier | TC04 |
| Purpose of Test | Test that the system can successfully detect improper field mappings. |
| Prerequisite Test Case(s) | TC01 |
| Test Input |  |
| Expected Result | System displays a red ‘x’ next to field mapping signifying that the field mapping is good. |
| Test Procedure | 1. User selects the first field from Test Input. 2. User selects the second field from Test Input. 3. System displays a red ‘x’ next to field mapping. |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

## 3.5 View Values in Database Table

|  |  |
| --- | --- |
| Test Case Identifier | TC05 |
| Purpose of Test | Test that the system will display the values for a specified database table. |
| Prerequisite Test Case(s) | TC01 |
| Test Input |  |
| Expected Result | System displays a table containing all the rows for the specified database table. |
| Test Procedure | 1. User selects database table. 2. User clicks “Preview Data” button. 3. System displays the table containing all the rows for the specified database table. |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

## 3.6 Insert Field Value into KML Description

|  |  |
| --- | --- |
| Test Case Identifier | TC06 |
| Purpose of Test | Test that the system can successfully insert a field value tag into the KML description. |
| Prerequisite Test Case(s) | TC01 |
| Test Input |  |
| Expected Result | System inserts field value tag into KML description. |
| Test Procedure | 1. User clicks “Insert field value.” 2. User selects table and field names from Test Input. 3. User clicks “OK.” 4. System inserts the table and field value as a tag into the KML description. |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

## 3.7 Insert Table Name into KML Description

|  |  |
| --- | --- |
| Test Case Identifier | TC07 |
| Purpose of Test | Test that the system can successfully insert a table name tag into the KML description. |
| Prerequisite Test Case(s) | TC01 |
| Test Input |  |
| Expected Result | System inserts table name tag into KML description. |
| Test Procedure | 1. User clicks “Insert table name.” 2. User selects table names from Test Input. 3. User clicks “OK.” 4. System inserts the table name as a tag into the KML description. |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

## 3.8 Insert Field Name into KML Description

|  |  |
| --- | --- |
| Test Case Identifier | TC08 |
| Purpose of Test | Test that the system can successfully insert a field name tag into the KML description. |
| Prerequisite Test Case(s) | TC01 |
| Test Input |  |
| Expected Result | System inserts field name tag into KML description. |
| Test Procedure | 1. User clicks “Insert field name.” 2. User selects field name from Test Input. 3. User clicks “OK.” 4. System inserts the field name as a tag into the KML description. |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

## 3.9 Insert Image into KML Description

|  |  |
| --- | --- |
| Test Case Identifier | TC09 |
| Purpose of Test | Test that the system can successfully insert an image tag into the KML description. |
| Prerequisite Test Case(s) | TC01 |
| Test Input |  |
| Expected Result | System inserts image tag into KML description. |
| Test Procedure | 1. User clicks “Insert image.” 2. User selects field from Test Input. 3. User clicks “OK.” 4. System inserts a link to the image as a tag into the KML description. |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

## 3.10 Create Connection

|  |  |
| --- | --- |
| Test Case Identifier | TC10 |
| Purpose of Test | Test that the system properly displays the create connection page. |
| Prerequisite Test Case(s) | None |
| Test Input |  |
| Expected Result | System displays the create connection page. |
| Test Procedure | 1. User clicks “Create Connection” button on the main page. 2. System displays the edit connection page with blank values. |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

## 3.11 Edit Connection

|  |  |
| --- | --- |
| Test Case Identifier | TC11 |
| Purpose of Test | Test that the system properly displays the edit connection page. |
| Prerequisite Test Case(s) | None |
| Test Input |  |
| Expected Result | System displays the create connection page. |
| Test Procedure | 1. User clicks the “Edit Connection” button on the main page for the input specified in Test Input. 2. System displays the edit connection page and populates the fields with the values stored in the application database. |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

## 3.12 View Connection

|  |  |
| --- | --- |
| Test Case Identifier | TC12 |
| Purpose of Test | Test that the system properly displays the view connection page. |
| Prerequisite Test Case(s) | None |
| Test Input |  |
| Expected Result | System displays the view connection page. |
| Test Procedure | 1. User clicks “View Connection” button on the main page for the input specified in Test Input. 2. System displays a read-only version of the edit connection page and populates the fields with the values stored in the application database. |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

## 3.13 Delete Connection

|  |  |
| --- | --- |
| Test Case Identifier | TC13 |
| Purpose of Test | Test that the system properly deletes a connection. |
| Prerequisite Test Case(s) | TC01 |
| Test Input |  |
| Expected Result | System displays a “Connection deleted” message. |
| Test Procedure | 1. User clicks “Delete Connection” on the main page for the input specified in Test Input. 2. System prompts user to confirm deletion. 3. User clicks “Yes”. 4. System displays a “Connection deleted” message. |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

## 3.14 Cancel Delete Connection

|  |  |
| --- | --- |
| Test Case Identifier | TC14 |
| Purpose of Test | Test that the system does not delete a connection when the user does not confirm deletion. |
| Prerequisite Test Case(s) | TC01 |
| Test Input |  |
| Expected Result | System removes the confirm deletion box without deleting the connection. |
| Test Procedure | 1. User clicks “Delete Connection” on the main page for the input specified in Test Input. 2. System prompts user to confirm deletion. 3. User clicks “No”. 4. System removes the confirm deletion box without deleting the connection. |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

## 3.15 Save Valid Connection

|  |  |
| --- | --- |
| Test Case Identifier | TC15 |
| Purpose of Test | Test that the system properly validates and saves connection settings. |
| Prerequisite Test Case(s) |  |
| Test Input |  |
| Expected Result | System displays a “Connection saved” message. |
| Test Procedure | 1. User clicks “Save Connection” on the edit connection page. 2. System validates all fields. 3. System displays a “Connection saved” message and returns to the main page. |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

## 3.16 Attempt to Save Invalid Description

|  |  |
| --- | --- |
| Test Case Identifier | TC16 |
| Purpose of Test | Test that the system properly detects an invalid description. |
| Prerequisite Test Case(s) |  |
| Test Input |  |
| Expected Result | System displays a message “One or more fields contain invalid data. Please check the red highlighted fields.” |
| Test Procedure | 1. User clicks “Save Connection” on the edit connection page. 2. System validates all fields. 3. System changes the font color of the description label to red. 4. System displays a message “One or more fields contain invalid data. Please check the red highlighted fields.” |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

## 3.17 Attempt to Save Invalid Icon or Color Overlay Condition

|  |  |
| --- | --- |
| Test Case Identifier | TC17 |
| Purpose of Test | Test that the system properly detects an invalid icon or color overlay condition. |
| Prerequisite Test Case(s) |  |
| Test Input |  |
| Expected Result | System displays a message “One or more fields contain invalid data. Please check the red highlighted fields.” |
| Test Procedure | To be determined |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

## 3.18 Attempt to Save Invalid Field Mapping

|  |  |
| --- | --- |
| Test Case Identifier | TC18 |
| Purpose of Test | Test that the system properly detects an invalid field mapping. |
| Prerequisite Test Case(s) |  |
| Test Input |  |
| Expected Result | System displays a message “One or more fields contain invalid data. Please check the red highlighted fields.” |
| Test Procedure | 1. User clicks “Save Connection” on the edit connection page. 2. System validates all fields. 3. System changes the font color of the database tables label to red. 4. System displays a message “One or more fields contain invalid data. Please check the red highlighted fields.” |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

## 3.19 Upload an icon from user’s computer

|  |  |
| --- | --- |
| Test Case Identifier | TC19 |
| Purpose of Test | To ensure that a user can upload an icon from their computer. |
| Prerequisite Test Case(s) | None |
| Test Input |  |
| Expected Result | The icon uploaded by the user should appear in the icon library and should be saved by the system. |
| Test Procedure | 1. User browses to the Main page or Create/Modify connection page.  2. User clicks upload icon button.  3. User browses to the icon’s location on the local hard drive.  4. User selects icon from the local hard drive.  5. Icon is uploaded into the ODBC2KML icon library.  6. ODBC2KML system saves the icon. |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

## 3.20 Upload an icon with an improper file type from the user’s computer

|  |  |
| --- | --- |
| Test Case Identifier | TC20 |
| Purpose of Test | To ensure that a user uploaded icon is a recognized file type. |
| Prerequisite Test Case(s) | None |
| Test Input |  |
| Expected Result | The icon uploaded by the user should be rejected by the system. |
| Test Procedure | 1. User browses to the Main page or Create/Modify connection page.  2. User clicks upload icon button.  3. User browses to the icon’s location on the local hard drive.  4. User selects icon from the local hard drive.  5. Icon is recognized as an improper file type by the system.  6. ODBC2KML system rejects the icon and displays, “Icon file type is incorrect.” |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

## 3.21 Upload an icon with improper size constraints from the user’s computer

|  |  |
| --- | --- |
| Test Case Identifier | TC21 |
| Purpose of Test | To ensure that a user uploaded icon is a proper size. |
| Prerequisite Test Case(s) | None |
| Test Input |  |
| Expected Result | The icon uploaded by the user should be rejected by the system. |
| Test Procedure | 1. User browses to the Main page or Create/Modify connection page.  2. User clicks upload icon button.  3. User browses to the icon’s location on the local hard drive.  4. User selects icon from the local hard drive.  5. Icon is recognized as being too large by the system.  6. ODBC2KML system rejects the icon and displays, “Icon size is too large.” |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

## 3.22 Upload Icon from URL

|  |  |
| --- | --- |
| Test Case Identifier | TC22 |
| Purpose of Test | To validate that the user is able to upload an icon from a URL. |
| Prerequisite Test Case(s) | None |
| Test Input |  |
| Expected Result | The icon is uploaded to the ODBC2KML icon library. |
| Test Procedure | 1. The user navigates to the Main Page or Create/Modify Connection Screen.  2. User clicks “Upload Icons” button.  3. User enters URL to PNG file to be used as the icon in the URL textbox.  4. User clicks “Upload”.  5. Icon is uploaded into the ODBC2KML icon library.  6. ODBC2KML system saves the icon. |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

## 3.23 Attempt to Upload Icon of Wrong File Type

|  |  |
| --- | --- |
| Test Case Identifier | TC23 |
| Purpose of Test | To ensure that the system properly validates the icon’s datatype using URL procedure to upload an icon |
| Prerequisite Test Case(s) | None |
| Test Input |  |
| Expected Result | An error message stating that the icon’s datatype is incorrect. |
| Test Procedure | 1. The user navigates to the Main Page or Create/Modify Connection Screen.  2. User clicks “Upload Icons” button.  3. User enters the URL in the URL textbox to be used as the icon.  4. User clicks “Upload”.  5. ODBC2KML displays message stating “The icon must be a PNG image.”  6. ODBC2KML system returns user to the Upload Icons screen. |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

## 3.24 Attempt to Upload Icon that is Too Large

|  |  |
| --- | --- |
| Test Case Identifier | TC24 |
| Purpose of Test | To ensure that the system properly validates the icon’s size using URL procedure to upload an icon |
| Prerequisite Test Case(s) | None |
| Test Input |  |
| Expected Result | An error message stating the icon is of incorrect size. |
| Test Procedure | 1. The user navigates to the Main Page or Create/Modify Connection Screen.  2. User clicks “Upload Icons” button.  3. User enters the URL in the URL textbox to be used as the icon.  4. User clicks “Upload”.  5. ODBC2KML displays message stating “The icon must be 128x128 or smaller.”  6. ODBC2KML system returns user to the Upload Icons screen. |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

## 3.25 Add an icon to the connection

|  |  |
| --- | --- |
| Test Case Identifier | TC25 |
| Purpose of Test | To ensure that an icon can be added to a specific connection. |
| Prerequisite Test Case(s) | None |
| Test Input |  |
| Expected Result | An icon is added to a specific connection. |
| Test Procedure | 1. User browses to the Create/Modify connection page.  2. User clicks add icons button.  3. User browses the icon library to select the desired icon.  4. User selects icon from the icon library.  5. Icon is added to the desired ODBC2KML connection. |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

## 3.26 Cancel an add icon dialog

|  |  |
| --- | --- |
| Test Case Identifier | TC26 |
| Purpose of Test | To ensure that an icon dialog can be cancelled. |
| Prerequisite Test Case(s) | None |
| Test Input |  |
| Expected Result | Icon dialog is canceled. |
| Test Procedure | 1. User browses to the Create/Modify connection page.  2. User clicks add icons button.  3. User browses the icon library to select the desired icon.  4. User selects cancel. |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

## 3.27 Add conditions to an icon associated with a connection

|  |  |
| --- | --- |
| Test Case Identifier | TC27 |
| Purpose of Test | To ensure that conditions can be added to an icon for a specific connection. |
| Prerequisite Test Case(s) | TC25 |
| Test Input |  |
| Expected Result | A condition is applied to an icon for a specific connection. |
| Test Procedure | 1. User clicks modify condition button associated with a specific icon.  2. User chooses associated fields.  3. User enters conditions for icon.  4. User clicks submit button.  5. ODBC2KML saves conditions. |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

## 3.28 Add improper conditions to an icon associated with a connection

|  |  |
| --- | --- |
| Test Case Identifier | TC28 |
| Purpose of Test | To ensure that improper conditions are rejected by the system. |
| Prerequisite Test Case(s) | TC25 |
| Test Input |  |
| Expected Result | A condition refused for an icon associated with a specific connection. |
| Test Procedure | 1. User clicks modify condition button associated with a specific icon.  2. User chooses associated fields.  3. User enters conditions for icon.  4. User clicks submit button.  5. The system refuses the invalid condition and displays, “Invalid condition format.” |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

## 3.29 Cancel add conditions to icon

|  |  |
| --- | --- |
| Test Case Identifier | TC29 |
| Purpose of Test | To ensure that conditions dialog can be canceled. |
| Prerequisite Test Case(s) | TC25 |
| Test Input |  |
| Expected Result | The condition dialog is canceled. |
| Test Procedure | 1. User clicks modify condition button associated with a specific icon.  2. User chooses associated fields.  3. User enters conditions for icon.  4. User clicks cancel button. |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

## 3.30 Remove conditions for an icon associated with a connection

|  |  |
| --- | --- |
| Test Case Identifier | TC30 |
| Purpose of Test | To ensure that conditions can be removed from an icon for a specific connection. |
| Prerequisite Test Case(s) | TC27 |
| Test Input |  |
| Expected Result | A condition is removed from an icon for a specific connection. |
| Test Procedure | 1. User clicks modify condition button associated with a specific icon.  2. User chooses associated fields.  3. User selects remove conditions for icon.  4. User clicks submit button.  5. ODBC2KML saves conditions. |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

## 3.31 Select an icon overlay color for a specific connection.

|  |  |
| --- | --- |
| Test Case Identifier | TC31 |
| Purpose of Test | To ensure that an overlay color can be associated with an icon for a specific connection. |
| Prerequisite Test Case(s) | None |
| Test Input |  |
| Expected Result | A color is associated with an icon for a specific connection. |
| Test Procedure | 1. User browses to the Create/Modify connection page.  2. User clicks add overlay color button.  3. User chooses the specific overlay color and specified conditions.  4. Overlay color is applied to the desired connection. |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

## 3.32 Add improper conditions to an icon overlay color associated with a connection

|  |  |
| --- | --- |
| Test Case Identifier | TC32 |
| Purpose of Test | To ensure that improper conditions are rejected by the system. |
| Prerequisite Test Case(s) | TC25 |
| Test Input |  |
| Expected Result | The condition is refused for an icon overlay color associated with a specific connection. |
| Test Procedure | 1. User browses to the Create/Modify connection page.  2. User clicks add overlay color button.  3. User chooses the specific overlay color and specified conditions.  4. User clicks submit button.  5. The system recognizes invalid condition input.  6. The system refuses the invalid condition and displays, “Invalid condition format.” |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

## 3.33 Cancel an icon overlay color for a specific connection

|  |  |
| --- | --- |
| Test Case Identifier | TC33 |
| Purpose of Test | To ensure that an overlay color dialog can be canceled |
| Prerequisite Test Case(s) | None |
| Test Input |  |
| Expected Result | A color overlay dialog is canceled. |
| Test Procedure | 1. User browses to the Create/Modify connection page.  2. User clicks cancel. |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

## 3.34 Remove an icon overlay color for a specific connection

|  |  |
| --- | --- |
| Test Case Identifier | TC34 |
| Purpose of Test | To ensure that an overlay color can be removed for an icon for a specific connection. |
| Prerequisite Test Case(s) | None |
| Test Input |  |
| Expected Result | A color is associated with an icon for a specific connection. |
| Test Procedure | 1. User browses to the Create/Modify connection page.  2. User clicks remove overlay color button.  3. System prompts user to confirm that they wish to remove the icon overlay color from the connection.  4. User clicks “Yes”.  5. Overlay color is removed from the desired connection and associated conditions. |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

## 3.35 Generate KML from web application.

|  |  |
| --- | --- |
| Test Case Identifier | TC35 |
| Purpose of Test | To ensure that the web application is able to generate KML files. |
| Prerequisite Test Case(s) | TC01 |
| Test Input |  |
| Expected Result | KML files are produced on local hard drive by the web application. |
| Test Procedure | 1. User clicks generate KML button.  2. System takes connection specific information and generates KML files.  3. System displays a file browse dialog.  4. User navigates to desired location to save the KML file.  5. User creates file name and clicks save.  6. File is saved to the user’s local hard drive. |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

## 3.36 Generate KML from Web Service

|  |  |
| --- | --- |
| Test Case Identifier | TC36 |
| Purpose of Test | To ensure that the system generates the KML file using the KML Generation Web Service |
| Prerequisite Test Case(s) | None |
| Test Input |  |
| Expected Result | A KML file is saved to where the user chooses. |
| Test Procedure | 1. User enters in URL to KML Generation Web Service to browser.  2. A File Save Dialog is displayed by the system.  3. The user chooses the directory to save the KML file.  4. The user types in a name for the file name for the KML file.  5. The KML file is saved to the directory the user chose. |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

## 3.37 Attempt to Generate KML from Web Service using Invalid Connection ID

|  |  |
| --- | --- |
| Test Case Identifier | TC37 |
| Purpose of Test | To ensure that the system validates that the URL provided for the KML Generation Web Service is incorrect. |
| Prerequisite Test Case(s) | None |
| Test Input |  |
| Expected Result | An error message by the browser stating that the URL provided is incorrect. |
| Test Procedure | 1. User enters in URL to KML Generation Web Service to browser.  2. The browser returns an error message stating that the URL provided is incorrect. |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

## 3.38 Retrieve Image from Web Service

|  |  |
| --- | --- |
| Test Case Identifier | TC38 |
| Purpose of Test | To ensure that the system is able to retrieve an image from the Retrieve Image Web Service. |
| Prerequisite Test Case(s) | TC19 |
| Test Input |  |
| Expected Result | The image is displayed on the screen. |
| Test Procedure | 1. The user enters in the URL to retrieve the image.  2. The browser displays the image in the browser. |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

## 3.39 Attempt to Retrieve Image from Web Service using Invalid ID

|  |  |
| --- | --- |
| Test Case Identifier | TC39 |
| Purpose of Test | To ensure that the system is able validate the URL for the Retrieve Image Web Service |
| Prerequisite Test Case(s) |  |
| Test Input |  |
| Expected Result | Web browser displays a message stating that the URL provided is invalid |
| Test Procedure | 1. User enters in URL to the Retrieve Image Web Service for the icon.  2. Browser displays an error message stating that the URL is incorrect. |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

## 3.40 Preview KML on Google Earth.

|  |  |
| --- | --- |
| Test Case Identifier | TC40 |
| Purpose of Test | To ensure the system is able to properly preview a KML file within Google Earth. |
| Prerequisite Test Case(s) | TC01 |
| Test Input |  |
| Expected Result | KML file is properly previewed in Google Earth. |
| Test Procedure | 1. User clicks preview button.  2. The system compiles a KML file from the selected connection.  3. The system interfaces with Google Earth.  4. The system passes the KML file to Google Earth.  5. Google Earth displays data contained within KML file. |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

## 3.41 Remove Icon from Connection

|  |  |
| --- | --- |
| Test Case Identifier | TC41 |
| Purpose of Test | Test that an icon can be successfully removed from a given connection. |
| Prerequisite Test Case(s) | TC01 |
| Test Input |  |
| Expected Result | Icon and all associated conditions are removed from the connection. |
| Test Procedure | 1. User browses to the Create/Modify connection page.  2. User clicks “Remove” button next to an icon.  3. System prompts the user to confirm that they wish to remove the selected icon from the connection.  4. User clicks “OK”.  5. System removes the icon and all associated conditions from the connection. |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

## 3.42 Cancel Remove Icon from Connection

|  |  |
| --- | --- |
| Test Case Identifier | TC42 |
| Purpose of Test | Test that an icon deletion can be successfully canceled. |
| Prerequisite Test Case(s) | TC01 |
| Test Input |  |
| Expected Result | Icon deletion confirmation is removed and icon and all associated conditions are NOT removed from the connection. |
| Test Procedure | 1. User browses to the Create/Modify connection page.  2. User clicks “Remove” button next to an icon.  3. System prompts the user to confirm that they wish to remove the selected icon from the connection.  4. User clicks “Cancel”.  5. System removes the icon deletion confirmation window without removing the icon and conditions from the connection. |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

## 3.43 Cancel Remove Icon Overlay Color

|  |  |
| --- | --- |
| Test Case Identifier | TC43 |
| Purpose of Test | Test that removing an icon overlay color can be canceled. |
| Prerequisite Test Case(s) | None |
| Test Input |  |
| Expected Result | Remove icon overlay color confirmation is removed without deleting the icon overlay color. |
| Test Procedure | 1. User browses to the Create/Modify connection page.  2. User clicks remove overlay color button.  3. System prompts user to confirm that they wish to remove the icon overlay color from the connection.  4. User clicks “No”.  5. Remove overlay color confirmation is removed without removing the overlay color from the connection. |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

## 3.44 Add conditions to an icon overlay color

|  |  |
| --- | --- |
| Test Case Identifier | TC44 |
| Purpose of Test | To ensure that conditions can be added to an icon overlay color for a specific connection. |
| Prerequisite Test Case(s) | TC31 |
| Test Input |  |
| Expected Result | A condition is applied to an icon overlay color for a specific connection. |
| Test Procedure | 1. User clicks modify condition button associated with a specific icon overlay color.  2. User chooses associated fields.  3. User enters conditions for icon overlay color.  4. User clicks submit button.  5. System saves conditions. |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

## 3.45 Add improper conditions to an icon overlay color

|  |  |
| --- | --- |
| Test Case Identifier | TC45 |
| Purpose of Test | To ensure that improper overlay color conditions are rejected by the system. |
| Prerequisite Test Case(s) | TC31 |
| Test Input |  |
| Expected Result | A condition refused for an icon overlay color associated with a specific connection. |
| Test Procedure | 1. User clicks modify condition button associated with a specific icon overlay color.  2. User chooses associated fields.  3. User enters conditions for icon overlay.  4. User clicks submit button.  5. The system refuses the invalid condition and displays, “Invalid condition format.” |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

## 3.46 Cancel add conditions to icon overlay color

|  |  |
| --- | --- |
| Test Case Identifier | TC46 |
| Purpose of Test | To ensure that icon overlay color conditions dialog can be canceled. |
| Prerequisite Test Case(s) | TC31 |
| Test Input |  |
| Expected Result | The condition dialog is canceled. |
| Test Procedure | 1. User clicks modify condition button associated with a specific icon overlay color.  2. User chooses associated fields.  3. User enters conditions for icon overlay color.  4. User clicks cancel button.  5. System removes the icon overlay color condition dialog box without adding the condition to the connection. |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

## 3.47 Remove conditions for an icon overlay color

|  |  |
| --- | --- |
| Test Case Identifier | TC47 |
| Purpose of Test | To ensure that conditions can be removed from an icon overlay color for a specific connection. |
| Prerequisite Test Case(s) | TC44 |
| Test Input |  |
| Expected Result | A condition is removed from an icon overlay color for a specific connection. |
| Test Procedure | 1. User clicks modify condition button associated with a specific icon.  2. User chooses associated fields.  3. User selects remove conditions for icon.  4. User clicks submit button.  5. ODBC2KML saves conditions. |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

# 4. Appendices