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**ODBC2KML**

**Acceptance Test Plan**

**Version 1.2 – 20 April 2010.**

**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 |
| 4/20/2010 | 1.2 | Updated based on final product | All Team Members |
|  |  |  |  |

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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. Change overlay color
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 | Connection Name: MySQL  Database Address: POLYTECH-DEV  Port Number: 3306  Database Name: test  Username: root  Password: polytech  Database Type: MySQL |
| Expected Result | On Create connection, the user is redirected to the ConnDetails.aspx page.  On Edit connection pages, the user is presented with no error message. |
| Test Procedure | 1. User browses to Create or Edit Connection pages. 2. User enters required database information as specified in Test Input. 3. User clicks “Update.” |
| 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 | Connection Name: MySQL  Database Address: POLYTECH-DEV2  Port Number: 3306  Database Name: test  Username: root  Password: polytech  Database Type: MySQL |
| Expected Result | System displays message, “The database entered could not be connected to. Please verify the information is correct.” |
| Test Procedure | 1. User browses to Edit Connection page. 2. User enters required database information as specified in Test Input. 3. User clicks “Update.” 4. System displays message, “The database entered could not be connected to. Please verify the information is correct.” |
| 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 the current mapping to the user. |
| Test Procedure | 1. Select msustudentdatalocks. 2. Select “Map Lat/Long” 3. Click “Separately” 4. Select “LATITUDE” as Latitude mapping. 5. Select “LONGITUDE” as Longitude mapping 6. Click “Submit” |
| 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 an error message stating that “The mapping is invalid” |
| Test Procedure | 1. Select msustudentdatalocks. 2. Select “Map Lat/Long” 3. Click “Separately” 4. Select “WATERWAY\_ID” as Latitude mapping. 5. Select “LONGITUDE” as Longitude mapping 6. Click “Submit” |
| 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 | msustudentdatalocks table |
| 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 “View Table” 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, TC03 |
| Test Input | msustudentdatalocks for mapped table  WATERWAY\_ID for field name |
| Expected Result | System inserts field value tag into KML description. |
| Test Procedure | 1. User clicks “Insert field value.” 2. User selects field name from Test Input. 3. User clicks “Insert Field” 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, TC03 |
| Test Input |  |
| Expected Result | System inserts table name tag into KML description. |
| Test Procedure | 1. User clicks “Table Name” 2. 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 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 | Connection Name: MySQL  Database Address: POLYTECH-DEV  Port Number: 3306  Database Name: test  Username: root  Password: polytech  Database Type: MySQL |
| Expected Result | System displays the create connection page. |
| Test Procedure | 1. User clicks “Create Connection” button on the main page. 2. System displays a popup with connection input boxes 3. User enters in information from Test Input 4. User clicks “Create” 5. System validates information and redirects the user to the ConnDetails.aspx page |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

## 3.9 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 | Click image for first connection |
| 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 a popup asking the user to verify connection information. 3. User clicks “Save and Edit” 4. 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 |

## 3.10 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 | Click first connection |
| 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 |

## 3.11 Delete Connection

|  |  |
| --- | --- |
| Test Case Identifier | TC13 |
| Purpose of Test | Test that the system properly deletes a connection. |
| Prerequisite Test Case(s) | TC01 |
| Test Input | Click the first connection |
| Expected Result | System refreshes the page. |
| 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 refreshes the page. |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

## 3.12 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 |

## 3.13 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 reloads the page. |
| Test Procedure | 1. User clicks “Save Connection” on the edit connection page. 2. System displays a popup asking the user to confirm they want to save the connection. 3. User clicks “Yes” 4. System validates all fields and saves to the database. 5. System reloads the page. |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

## 3.14 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 | [FIELD][TBL]LOCKLocations[/TBL][COL]col6[/COL] |
| Expected Result | System displays a message “One or more fields contain invalid data. Please check the red highlighted fields.” |
| Test Procedure | 1. User enters the data from Test Input into the description box. 2. User clicks “Save Connection” on the edit connection page. 3. System displays a popup asking the user to confirm they want to save the connection. 4. User clicks “Yes” 5. System displays a message “There was an error saving the connection. The connection information is invalid.” |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

## 3.15 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) | TC01, TC25 and/or TC31 |
| Test Input | Lower Operator : <=  Table : msustudentdatalocks  Field : WATERWAY\_ID |
| Expected Result | Error Message: Must enter a lower bound or an upper bound |
| Test Procedure | 1. Click “Modify Condition” next to an existing icon or overlay. 2. User enters test input data into the modify condition box that displays. 3. User clicks “Add” next to condition. 4. System displays expected result. |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

## 3.16 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 | PNG File that is 128x128 |
| 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 |

## 3.17 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 | Excel .xls file |
| Expected Result | Error Message: Current File type = application/vnd.ms-excel File type not appropriate (only jpg, gif, tiff, png, bmp accepted) |
| Test Procedure | 1. User browses to the Main page or Create/Modify connection page.  2. User clicks upload icon button.  3. User clicks upload icon locally tab.  4. User browses to the test input’s location on the local hard drive.  5. User selects test input from the local hard drive.  6. User clicks submit.  7. ODBC2KML system rejects the icon and displays, “Invalid File Type.” |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

## 3.18 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 | Image that is larger than 128x128 |
| Expected Result | Error Message: File dimensions too large (max 128 x 128) |
| Test Procedure | 1. User browses to the Main page or Create/Modify connection page.  2. User clicks upload icon button.  3. User clicks upload icon locally tab  4. User browses to the icon’s location on the local hard drive.  5. User selects icon from the local hard drive.  6. ODBC2KML system displays the expected result. |
| 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 | http://thajes.com/\_content/temp/cloud\_comment.png |
| 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 test input 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 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) | TC01, TC19 or TC22 |
| Test Input |  |
| Expected Result | An icon is added to a specific connection. |
| Test Procedure | 1. User clicks add icons button.  2. User clicks an icon.  3. ODBC2KML system adds icon to the Icons table. |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

## 3.24 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) | TC01, TC19 or TC22 |
| Test Input |  |
| Expected Result | Icon dialog is canceled. |
| Test Procedure | 1. User clicks add icons button.  2. User selects cancel.  3. System returns to ConnDetails page. |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

## 3.25 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) | TC01, TC25 and/or TC31 |
| Test Input | Lower Bound : INDIANA  Lower Operator : ==  Table : msustudentdatalocks  Field : WATERWAY\_ID |
| Expected Result | Condition gets added to the icon on Icon Table on ConnDetails |
| Test Procedure | 1. Click “Modify Condition” next to an existing icon or overlay. 2. User enters test input data into the modify condition box that displays. 3. User clicks “Add” next to condition. 4. User clicks “Submit”. 5. Page reloads with expected result. |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

## 3.26 Cancel add conditions to icon

|  |  |
| --- | --- |
| Test Case Identifier | TC29 |
| Purpose of Test | To ensure that conditions dialog can be canceled. |
| Prerequisite Test Case(s) | TC01, TC25 and/or TC31 |
| Test Input | Lower Bound : INDIANA  Lower Operator : ==  Table : msustudentdatalocks  Field : WATERWAY\_ID |
| Expected Result | The added condition does not appear in ConnDetails page |
| Test Procedure | 1. Click “Modify Condition” next to an existing icon or overlay. 2. User enters test input data into the modify condition box that displays. 3. User clicks “Add” next to condition. 4. User clicks “Cancel”. 5. Page reloads with expected result. |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

## 3.27 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 | TC01, TC25 and/or TC31 |
| Expected Result | The ConnDetails reloads and the removed condition does not appear |
| Test Procedure | 1. User chooses modify condition.  2. User selects remove next to the condition for icon.  3. User clicks submit button.  4. ODBC2KML displays expected result. |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

## 3.28 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 | None |
| Expected Result | A color is associated with an icon for a specific connection. |
| Test Procedure | 1. User browses to the edit connection page.  2. User clicks ‘add overlay’ color button.  3. User chooses the specific overlay color.  4. User clicks submit.  4. Overlay color is added to the connection. |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

## 3.29 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  TC29 |
| Test Input | Leave the upper and lower bound fields blank. |
| Expected Result | The condition is refused for an icon overlay color associated with a specific connection. |
| Test Procedure | 1. User browses to the edit connection page.  2. User clicks ‘modify condition’ button.  3. User enters invalid data and clicks ‘add’.  4. The system recognizes invalid conditions and displays an appropriate error message. |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

## 3.30 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 | None |
| Expected Result | A color overlay dialog is canceled. |
| Test Procedure | 1. User browses to the edit connection page.  2. User clicks ‘Add Overlay’ button.  3. User clicks cancel. |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

## 3.31 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 | Yellow, in connection ConnID=1 |
| Expected Result | A color is removed from a specific connection. |
| Test Procedure | 1. User browses to the edit connection page.  2. User clicks ‘remove overlay’ color button.  3. System prompts user to select what overlay to remove.  4. User clicks desired overlay.  5. Overlay color and associated conditions are removed from the desired connection. |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

## 3.32 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 | Connection with ConnID=1 |
| 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 |

## 3.33 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 | Connection with ConnID=1 |
| 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 HTML file is displayed by the system.  3. User chooses to copy the XML file and saves it to their desired file. |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

## 3.34 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 | ConnID=-1 |
| Expected Result | A KML file with a href tag for a invalid screen overlay picture. |
| Test Procedure | 1. User enters in URL to KML Generation Web Service to browser.  2. The browser returns the KML file. |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

## 3.35 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 | Connection with ConnID=1 |
| Expected Result | KML file is properly previewed in Google Earth. |
| Test Procedure | 1. User browses to the edit connection page.  2. User clicks ’Preview KML’ button.  2. The system compiles a KML file from the selected connection.  3. The system interfaces with Google Earth browser plugin.  4. The system passes the KML file to Google Earth plugin.  5. Google Earth displays data contained within KML file. |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

## 3.36 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 | White arrow icon |
| Expected Result | Icon and all associated conditions are removed from the connection. |
| Test Procedure | 1. User browses to the edit connection page.  2. User clicks “Remove Icons” button.  3. System prompts the user to select the icon they would like to remove.  4. User clicks the icon.  5. System removes the icon and all associated conditions from the connection. |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

## 3.37 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 | White arrow icon |
| 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 edit connection page.  2. User clicks “Remove Icons” button.  3. System prompts the user to select the icon they would like to remove.  4. User clicks ‘Cancel’. |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

## 3.38 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 | Yellow overlay |
| Expected Result | Remove icon overlay color confirmation is removed without deleting the icon overlay color. |
| Test Procedure | 1. User browses to the edit connection page.  2. User clicks “Remove Overlay” button.  3. System prompts the user to select the overlay they would like to remove.  4. User clicks ‘Cancel’. |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

## 3.39 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 | Yellow, connection with ConnID=1 |
| 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 |

## 3.40 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 | Leave lower and upper bounds blank. |
| 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 |

## 3.41 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 | Any condition |
| Expected Result | The condition dialog is canceled. |
| Test Procedure | 1. User clicks modify condition button associated with a specific icon overlay color.  2. User clicks ‘cancel’ button. |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |

## 3.42 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 | Yellow, connection with ConnID=1 |
| 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 color.  2. Users clicks ‘Remove’ next to the desired condition.  3. User clicks submit. |
| Environmental Needs | Compatible Web Browser |
| Actual Result | Not Applicable |
| Remarks | Not Applicable |