

Private & Confidential

## DCLG Fire and Rescue Service (F&RS)



# Connection Testing Pack - v1-0i

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# 1 Introduction

The purpose of this document is to provide FRS technical staff and 3<sup>rd</sup> Party Software Developers with the information required to test transactions involving incident data with the DCLG's new Incident Recording System (IRS).

The following environments will be available:

- Staging Environment
- Training Environment
- Production Environment

The Staging Environment provides a test web service that allows any internet connected FRS application to collect and process test transactional data with the IRS. This is a limited service in so far as the data available and the stability requirements. This environment will allow FRS's to test their connections and trial their data submissions to IRS well before moving to the IRS Training and Production Environments.

The Training Environment will also provide a website for using the online forms capability and other supporting functionality e.g. reporting and extracts. This should be used when the FRS pre-population interface has been tested and is now ready for use by FRS FireOfficers.

The Production Environment will provide the same web service and website functionality as the Training Environment, but prepared for full operational live use.

# 2 Service Locations

This section defines the location of the various external facing web services and websites available to the FRS community.

The Web Service connects to the same services/operations within each DCLG IRS environment.

For each Web Service operation (type of transaction) a number of sample XML file fragments are provided within the IRS Test Client Framework. The sample files included are examples of various minimum, maximum and typical transactions that would be performed by the FRS community.

## 2.1 Staging Web Service

The staging web service is used to make sure that you can connect successfully to the IRS and will be used for FRS Community to test their developed interfaces for a period of time.

In order to test your IRS client you need to ensure that the web service setting is directed to the URL: <https://irs.xml.fire.gov.uk/staging/irs/irsismx>

## 2.2 Staging Website

This online website allows you to create online incident form submissions, view the web service client data submitted and to administer user accounts. This can be used to view any incidents inserted or amended by the web service client and to test locking of incidents. This environment will be used for checking the results of the interface developed by any FRS.

The online website will be available at the following URL:

<https://www.irs.fire.gov.uk/staging>

## 2.3 Training Web Service

The web service will be available at the following URL:

<https://irs.xml.fire.gov.uk/training/irsis/irsis.asmx>

## 2.4 Training Website

The web service will be available at the following URL:

<https://www.irs.fire.gov.uk/training>

## 2.5 Production Web Service

The web service will be available at the following URL:

<https://irs.xml.fire.gov.uk/irsis/irsis.asmx>

## 2.6 Production Website

The online website will be available at the following URL:

<https://www.irs.fire.gov.uk>

## 3 User Credentials Allocation

DCLG will need to set-up a default user administrator and a web service client account with a **username** and **password** for each FRS for each environment. The **username** and **password** combinations can be requested from the IRS helpdesk on:

- Email [irshelp@communities.gsi.gov.uk](mailto:irshelp@communities.gsi.gov.uk)
- Telephone **0845 3777 888**

Once a FRS Administrator is set-up they will be able to create additional user accounts for internal FRS use. For example, setting up Station Managers, Firefighters and other FRS personnel (quality assurance staff).

Note: There will need to be separate user accounts for the XML Web Service use in each environment. This is referred to as an 'MIS' account. This account has a set of permissions that differs from the online website user roles that can be setup by administrators for FRS personnel.

## 4 Test Connection Preparation

This section describes the prerequisites required for physically connecting to the various IRS environments.

### 4.1 Hardware Requirements

There are no specific hardware requirements.

### 4.2 Network Requirements

All the environments URL's are based on a secure http protocol: '<https://...>'. There is no VPN requirement.

### 4.3 Software Requirements

It is recommended that initial connection tests should be performed via a Browser client, standard SOAP client toolkit or the supplied IRS Test Client Framework. This will allow the developer to check there are no FRS environment issues impacting basic connection to the IRS system.

### 4.4 Test Data

Please refer to the following major section for recommended minimum testing scenarios that should be performed by the FRS application interacting with the IRS web services. These scenarios test the majority of the likely scenarios and combinations of data and also highlight the most likely failure scenarios.

Please refer to the 'IRS Test Client Framework' directories for XML document / fragments that support the test scenarios defined in this document.

*Note: These XML fragments contain the SOAP Body data requirements, but not the SOAP Envelope and Header details.*

## 5 Test Scenarios

This section describes various test scenarios that are useful to check the working of the IRS and to check that the FRS web service client application is working correctly. The test scenarios fall into two categories: positive and negative test cases (refer to ✓ or ✕).

Note: All examples have been based on a single FRS Identifier 'FM' for simplicity. There are various field values that would need the value adjusted with the appropriate FRS identifier. The FRS identifier values can be found in the 'XML Information Model' supporting document 'Appendix C - FRS Incident Schema - Lists - v1-0i.doc'. The primary fields that need to be changed are: FRSId, StationId, FireOfficerId, FRScallsign, RCCcallsign (Vehicle, Equipment, FireOfficer), Deployed From StationId.

The test scenarios are designed to ensure that all relevant data structures are tested and populated. There are also a number of examples that will test key business rules that must be implemented: Over the Border handling, Various Location data structure options, Incident Status processing.

## 5.1 Logon (SecurityRequest) Operation

| Test: IRS_WS_1                                                                                                                                                                                                                             |                                                                                                                                                                                                          | Test IRS Web Service – Logon                                                                                                  |        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|--------|
| <b>Description:</b> Test IRS Service Logon Operation. The SecurityRequest structure is used to send a 'issue' request for a SessionToken. The SecurityToken will need to be used by each of the following operations for the user session. |                                                                                                                                                                                                          |                                                                                                                               |        |
| <b>Initialisation Instructions:</b>                                                                                                                                                                                                        |                                                                                                                                                                                                          |                                                                                                                               |        |
| Step No.                                                                                                                                                                                                                                   | Action & Input Data                                                                                                                                                                                      | Expected Result                                                                                                               | ✓ or ✗ |
| 1-01                                                                                                                                                                                                                                       | <b>Successful logon obtaining SessionToken.</b><br><br>Perform logon operation request with valid UsernameToken - Username and Password.<br><br>Use: IRS_WS_1_01_LogonRequest-v1-0.xml                   | Confirm SOAP Body response has valid Requested Security Token element.                                                        | ✓      |
| 1-02                                                                                                                                                                                                                                       | <b>Repeat Logon request.</b><br><br>Perform logon operation request with the same valid Username and Password.<br><br>Use: IRS_WS_1_01_LogonRequest-v1-0.xml                                             | Confirm SOAP Body response has valid Requested Security Token element and is different to the value returned in 1-01.         | ✓      |
| 1-03                                                                                                                                                                                                                                       | <b>Username Invalid.</b><br><br>Perform logon operation request with invalid Username.<br><br>Use: IRS_WS_1_01_LogonRequest-v1-0.xml                                                                     | Confirm SOAP Fault response has been returned with Fatal Error Code = <b>1001</b> (Username or Password combination Invalid). | ✗      |
| 1-04                                                                                                                                                                                                                                       | <b>Password Invalid.</b><br><br>Perform logon operation request with valid Username and Invalid Password.<br><br>Use: IRS_WS_1_01_LogonRequest-v1-0.xml                                                  | Confirm SOAP Fault response has been returned with Fatal Error Code = <b>1001</b> (Username or Password combination Invalid). | ✗      |
| 1-05                                                                                                                                                                                                                                       | <b>Invalid UsernameToken details.</b><br><br>Perform logon with invalid characters Username.<br>Also check no field and field length greater than maximum.<br><br>Use: IRS_WS_1_01_LogonRequest-v1-0.xml | Confirm SOAP Fault response has been returned with Fatal Error Code = (Schema Error – 0005).                                  | ✗      |



## 5.2 InsertIncident Operation

|                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                   |                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| Test: IRS_WS_2                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Test IRS Web Service – InsertIncident                                                                                             |                       |
| <b>Description:</b> Test IRS Service Logon Operation. The SecurityRequest structure is used to send a 'issue' request for a SessionToken. The SecurityToken will need to be used by each of the following operations for the user session. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                   |                       |
| <b>Initialisation Instructions:</b>                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                   |                       |
| <b>Step No.</b>                                                                                                                                                                                                                            | <b>Action &amp; Input Data</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>Expected Result</b>                                                                                                            | <b>✓<br/>or<br/>x</b> |
| 2-01                                                                                                                                                                                                                                       | <p><b>Minimum Mobilised Details Only populated from the FRS Command and Control system.</b></p> <p><b>Note: Will be extended later with Get and Amend operations.</b></p> <p>Perform InsertIncident operation request with valid IncidentStatus is '50=Closed' with minimum incident information.</p> <p>IncidentAtCall and no ResourceUsage details.</p> <p>Note: Review Incident identifier population and Audit details in request and response.</p> <p>Use:<br/>IRS_WS_2_01_InsertIncidentDetailsRequest-v1-0_PF-Dwelling-Minimum-Closed.xml</p> | <p>Confirm SOAP Header response has valid security element and SOAP Body response.</p> <p>SOAP Body with successful response.</p> | ✓                     |
|                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                   |                       |
| 2-02                                                                                                                                                                                                                                       | <p><b>Published Special Service – RTC with Casualties, Multiple Vehicles and Extrications.</b></p> <p>Perform InsertIncident operation request with valid IncidentStatus '70=Published' and minimum information.</p> <p>IncidentAtCall and minimum ResourceUsage details.</p> <p>IncidentOnAttendance with Special Service details, RTC data structures and Victim(s) Details.</p> <p>Use:<br/>IRS_WS_2_02_InsertIncidentDetailsRequest-v1-0_SpecialService-RTC.xml</p>                                                                              | <p>Confirm SOAP Header response has valid security element and SOAP Body response.</p> <p>SOAP Body with successful response.</p> | ✓                     |

| Test: IRS_WS_2 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Test IRS Web Service – InsertIncident                                                                                             |   |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|---|
| 2-03           | <p><b>Published as Special Service – HazMat - Spills &amp; Leaks with Hazardous Materials.</b></p> <p>Perform InsertIncident operation request with valid IncidentStatus '70=Published' information.</p> <p>IncidentAtCall with full ResourceUsage details including all Vehicles, FireOfficers and Equipment used.</p> <p>IncidentOnAttendance with Special Service and Hazardous Materials information.</p> <p>Use:<br/>IRS_WS_2_03_InsertIncidentDetailsRequest-v1-0_SpecialService-Spills.xml</p> | <p>Confirm SOAP Header response has valid security element and SOAP Body response.</p> <p>SOAP Body with successful response.</p> | ✓ |
| 2-04           | <p><b>Incident mobilised with Call Challenged – Suspected Malicious False Alarm call.</b></p> <p><b>Will be extended later with Get and Amend operations.</b></p> <p>Perform InsertIncident operation request with valid IncidentStatus '50=Closed' minimum information.</p> <p>IncidentAtCall and no ResourceUsage details at this stage.</p> <p>Use:<br/>IRS_WS_2_04_InsertIncidentDetailsRequest-v1-0_FalseAlarm-Closed.xml</p>                                                                    | <p>Confirm SOAP Header response has valid security element and SOAP Body response.</p> <p>SOAP Body with successful response.</p> | ✓ |
|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                   |   |
| 2-10           | <p><b>Published Primary Fire Dwelling – Late Call.</b></p> <p>Perform InsertIncident operation request with valid IncidentStatus '70=Published' minimum information.</p> <p>IncidentAtCall and minimum ResourceUsage details.</p> <p>IncidentOnAttendance minimum Primary Fire for Late Call.</p> <p>Use:<br/>IRS_WS_2_10_InsertIncidentDetailsRequest-v1-0_PF-Dwelling-LateCall.xml</p>                                                                                                              | <p>Confirm SOAP Header response has valid security element and SOAP Body response.</p> <p>SOAP Body with successful response.</p> | ✓ |

| Test: IRS_WS_2 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Test IRS Web Service – InsertIncident                                                                                             |   |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|---|
| 2-11           | <p><b>Published Primary Fire OtherResidential Retirement Home – Maximum details including 6 appliances, multiple casualty details, evacuation details and Hazardous Materials.</b></p> <p>Perform InsertIncident operation request with valid IncidentStatus '75=Published with Queries' minimum information.</p> <p>IncidentAtCall and maximum ResourceUsage details.</p> <p>IncidentOnAttendance Primary Fire OtherResidential, Victim details, Evacuation details and Special Service Hazardous Material details .</p> <p>Use:<br/>IRS_WS_2_11_InsertIncidentDetailsRequest-v1-0_PF-OtherResidential-Maximum.xml</p> | <p>Confirm SOAP Header response has valid security element and SOAP Body response.</p> <p>SOAP Body with successful response.</p> | ✓ |
| 2-12           | <p><b>Published Primary Fire for a RoadVehicle – No Casualties or Extractions.</b></p> <p>Perform InsertIncident operation request with valid IncidentStatus '70=Published' information.</p> <p>IncidentAtCall and minimum ResourceUsage details.</p> <p>IncidentOnAttendance Primary Fire for a RoadVehicle.</p> <p>Use:<br/>IRS_WS_2_12_InsertIncidentDetailsRequest-v1-0_PF-RoadVehicle.xml</p>                                                                                                                                                                                                                      | <p>Confirm SOAP Header response has valid security element and SOAP Body response.</p> <p>SOAP Body with successful response.</p> | ✓ |
| 2-13           | <p><b>Published Primary Boat Fire.</b></p> <p>Perform InsertIncident operation request with valid IncidentStatus '70=Published' information.</p> <p>IncidentAtCall and minimum ResourceUsage details.</p> <p>IncidentOnAttendance Primary Fire for a Boat.</p> <p>Use:<br/>IRS_WS_2_13_InsertIncidentDetailsRequest-v1-0_PF_Boat.xml</p>                                                                                                                                                                                                                                                                                | <p>Confirm SOAP Header response has valid security element and SOAP Body response.</p> <p>SOAP Body with successful response.</p> | ✓ |
|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                   |   |
| 2-14           | <p><b>Published Secondary Fire – Outdoor Skip/Refuse Containers.</b></p> <p>Perform InsertIncident operation request with valid IncidentStatus '70=Published' minimum information.</p> <p>IncidentAtCall and minimum ResourceUsage details.</p> <p>IncidentOnAttendance minimum Secondary Fire.</p> <p>Use:<br/>IRS_WS_2_14_InsertIncidentDetailsRequest-v1-0_SF-Outdoor-Skip.xml</p>                                                                                                                                                                                                                                   | <p>Confirm SOAP Header response has valid security element and SOAP Body response.</p> <p>SOAP Body with successful response.</p> | ✓ |

| Test: IRS_WS_2 |                                                                                                                                                                                                                                                                                                                                                                                                               | Test IRS Web Service – InsertIncident                                                                                             |   |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|---|
| 2-15           | <p><b>Published Secondary Fire – Abandoned RoadVehicle and Late Call.</b></p> <p>Perform InsertIncident operation request with valid IncidentStatus '70=Published' information.</p> <p>IncidentAtCall and minimum ResourceUsage details.</p> <p>IncidentOnAttendance Secondary Fire for a derelict RoadVehicle.</p> <p>Use:<br/>IRS_WS_2_15_InsertIncidentDetailsRequest-v1-0_SF-RoadVehicle-LateCall.xml</p> | <p>Confirm SOAP Header response has valid security element and SOAP Body response.</p> <p>SOAP Body with successful response.</p> | ✓ |
| 2-16           | <p><b>Published Chimney Fire.</b></p> <p>Perform InsertIncident operation request with valid IncidentStatus '70=Published' information.</p> <p>IncidentAtCall and minimum ResourceUsage details.</p> <p>IncidentOnAttendance Chimney Fire (Secondary).</p> <p>Use:<br/>IRS_WS_2_16_InsertIncidentDetailsRequest-v1-0_ChimneyFire.xml</p>                                                                      | <p>Confirm SOAP Header response has valid security element and SOAP Body response.</p> <p>SOAP Body with successful response.</p> | ✓ |
| 2-17           | <p><b>Published Primary Fire – Large Outdoor Fire (National Park).</b></p> <p>Perform InsertIncident operation request with valid IncidentStatus '70=Published' information.</p> <p>IncidentAtCall and minimum ResourceUsage details.</p> <p>IncidentOnAttendance Primary Fire Outdoor structure.</p> <p>Use:<br/>IRS_WS_2_17_InsertIncidentDetailsRequest-v1-0_PF-Outdoor-LargeArea.xml</p>                  | <p>Confirm SOAP Header response has valid security element and SOAP Body response.</p> <p>SOAP Body with successful response.</p> | ✓ |
| 2-18           | <p><b>Published Secondary Fire – Small outdoor fire (pasture).</b></p> <p>Perform InsertIncident operation request with valid IncidentStatus '70=Published' information.</p> <p>Use:<br/>IRS_WS_2_18_InsertIncidentDetailsRequest-v1-0_SF-Outdoor-SmallArea.xml</p>                                                                                                                                           | <p>Confirm SOAP Header response has valid security element and SOAP Body response.</p> <p>SOAP Body with successful response.</p> | ✓ |
| 2-19           | <p><b>Published Special Service – Lift Release.</b></p> <p>Perform InsertIncident operation request with valid IncidentStatus '70=Published' information.</p> <p>Special Service Data Structure.</p> <p>Use:<br/>IRS_WS_2_19_InsertIncidentDetailsRequest-v1-0_SpecialService-LiftRelease.xml</p>                                                                                                             | <p>Confirm SOAP Header response has valid security element and SOAP Body response.</p> <p>SOAP Body with successful response.</p> | ✓ |

| Test: IRS_WS_2 |                                                                                                                                                                                                                                                                                                  | Test IRS Web Service – InsertIncident                                                                                  |   |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|---|
| 2-20           | <b>Published Special Service – Effecting Entry.</b><br>Perform InsertIncident operation request with valid IncidentStatus '70=Published' information.<br><br>Use:<br>IRS_WS_2_20_InsertIncidentDetailsRequest-v1-0_SpecialService-EffectsEntry.xml                                               | Confirm SOAP Header response has valid security element and SOAP Body response.<br>SOAP Body with successful response. | ✓ |
| 2-21           | <b>Published Primary Fire – Small Aircraft.</b><br>Perform InsertIncident operation request with valid IncidentStatus '70=Published' information.<br>IncidentOnAttendance Aircraft structure.<br><br>Use:<br>IRS_WS_2_21_InsertIncidentDetailsRequest-v1-0_PF-Aircraft.xml                       | Confirm SOAP Header response has valid security element and SOAP Body response.<br>SOAP Body with successful response. | ✓ |
| 2-22           | <b>Published Primary Fire – Rail Vehicle (Passenger Train).</b><br>Perform InsertIncident operation request with valid IncidentStatus '70=Published' information.<br>IncidentOnAttendance RailVehicle structure.<br><br>Use:<br>IRS_WS_2_22_InsertIncidentDetailsRequest-v1-0_PF-RailVehicle.xml | Confirm SOAP Header response has valid security element and SOAP Body response.<br>SOAP Body with successful response. | ✓ |

| INVALID TEST CASES |                                                                                                                                                                                                                                                            |                                                                                                                              |   |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|---|
| 2-30               | <b>Incident already exists.</b><br>Perform InsertIncident operation request with valid IncidentStatus '50=Closed' minimum information.<br><br>Use the exact same request as any of the above. Checks that FRSIncidentNumber not previously used.           | Confirm incident response has been returned with Error Code = <b>2004</b> (Incident already exists for Incident Identifier). | ✗ |
| 2-31               | <b>IncidentStatus not permitted for FRS use.</b><br>Perform InsertIncident operation request with valid IncidentStatus '90=Statistics Team Closed' minimum information.<br><br>Use one of the Published examples above, but change IncidentStatus to '90'. | Confirm incident response has been returned with Error Code = <b>2001</b> (Incident already exists for Incident Identifier). | ✗ |

|      |                                                                                                                                                                                                                                            |                                                                                                                                              |   |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|---|
| 2-32 | <p><b>Inclusion of IncidentId not permitted.</b></p> <p>Perform InsertIncident operation request with valid IncidentStatus '50=Closed' minimum information.</p> <p>Use one of the above, but add in IncidentId.</p>                        | Confirm incident response has been returned with Error Code = <b>2003</b> (Incident already exists for Incident Identifier).                 | ✗ |
| 2-33 | <p><b>ValidationStatus incorrect.</b></p> <p>Perform InsertIncident operation request with valid IncidentStatus '50=Closed' minimum information.</p> <p>Use one of the above, but change ValidationStatus to 'Basic'.</p>                  | Confirm incident response has been returned with Error Code = <b>2007</b> (Validation Status incorrect).                                     | ✗ |
| 2-34 | <p><b>SchemaVersion must be 'v1-0'.</b></p> <p>Perform InsertIncident operation request with valid IncidentStatus '70=Published' minimum information.</p> <p>Use one of the Published examples above, but set SchemaVersion to 'v2-0'.</p> | Confirm incident response has been returned with Error Code = <b>0998</b> (Must have a valid Schema Version implemented by the web service). | ✗ |

|      |                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                   |   |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|---|
|      | <b>LOCATION TEST CASES</b>                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                   |   |
| 2-40 | <p><b>Published Secondary Fire – Deployed From Another Incident to specific Geo-Coordinates.</b></p> <p>Perform InsertIncident operation request with valid IncidentStatus '70=Published' minimum information.</p> <p>ResourceUsage Vehicle<br/>DeployedFrom and DeployedTo<br/>Locations used.</p> <p>Use:<br/>IRS_WS_2_40_InsertIncidentDetailsRequest-v1-0_SF-<br/>DeployedFromIncident.xml</p> | <p>Confirm SOAP Header response has valid security element and SOAP Body response.</p> <p>SOAP Body with successful response.</p> | ✓ |
| 2-41 | <p><b>Published Secondary Fire – Your Territory – Attended by another FRS.</b></p> <p>Perform InsertIncident operation request with valid IncidentStatus '70=Published' minimum information.</p> <p>Use:<br/>IRS_WS_2_41_InsertIncidentDetailsRequest-v1-0_SF- Your-Territory-<br/>Attended-by-another-FRS.xml</p>                                                                                 | <p>Confirm SOAP Header response has valid security element and SOAP Body response.</p> <p>SOAP Body with successful response.</p> | ✓ |

|      |                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                   |   |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|---|
| 2-42 | <p><b>Published Secondary Fire – Your Territory – Attended by your FRS – Station 01.</b></p> <p>Perform InsertIncident operation request with valid IncidentStatus '70=Published' minimum information.</p> <p>Use:<br/>IRS_WS_2_42_InsertIncidentDetailsRequest-v1-0_SF- Your-Territory-Attended-by-your-FRS.xml</p>                                                                                                         | <p>Confirm SOAP Header response has valid security element and SOAP Body response.</p> <p>SOAP Body with successful response.</p> | ✓ |
| 2-43 | <p><b>Published Secondary Fire – Other FRS Territory – Attended by your FRS – Station 01.</b></p> <p>Perform InsertIncident operation request with valid IncidentStatus '70=Published' minimum information.</p> <p>Use:<br/>IRS_WS_2_43_InsertIncidentDetailsRequest-v1-0_SF- Other-Territory-Attended-by-your-FRS.xml</p>                                                                                                   | <p>Confirm SOAP Header response has valid security element and SOAP Body response.</p> <p>SOAP Body with successful response.</p> | ✓ |
| 2-44 | <p><b>Published Secondary Fire – Other FRS Territory – Attended by your FRS – Station 02.</b></p> <p>Perform InsertIncident operation request with valid IncidentStatus '70=Published' minimum information.</p> <p>Use:<br/>IRS_WS_2_44_InsertIncidentDetailsRequest-v1-0_SF- Other-Territory-Attended-by-your-FRS.xml</p>                                                                                                   | <p>Confirm SOAP Header response has valid security element and SOAP Body response.</p> <p>SOAP Body with successful response.</p> | ✓ |
| 2-45 | <p><b>Published Secondary Fire – Your Territory – Attended by your FRS – Station 02.</b></p> <p>Perform InsertIncident operation request with valid IncidentStatus '70=Published' minimum information.</p> <p>Use:<br/>IRS_WS_2_45_InsertIncidentDetailsRequest-v1-0_SF- Your-Territory-Attended-by-your-FRS.xml</p>                                                                                                         | <p>Confirm SOAP Header response has valid security element and SOAP Body response.</p> <p>SOAP Body with successful response.</p> | ✓ |
|      | <b>INCIDENT STATATUS TEST CASES</b>                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                   |   |
| 2-50 | <p><b>Published Secondary Fire – Deployed From Another Incident to specific Geo-Coordinates – Cancelled as duplicate.</b></p> <p>Perform InsertIncident operation request with valid IncidentStatus '0=Cancelled' (As it was a duplicate).</p> <p>ResourceUsage Vehicle DeployedFrom and DeployedTo Locations used.</p> <p>Use:<br/>IRS_WS_2_50_InsertIncidentDetailsRequest-v1-0_SF-DeployedFrom-Incident-Cancelled.xml</p> | <p>Confirm SOAP Header response has valid security element and SOAP Body response.</p> <p>SOAP Body with successful response.</p> | ✓ |

### 5.3 GetIncident Operation

| Test: IRS_WS_3                                                                                                                              |                                                                                                                                                                                                                                                                                                  | Test Web Service - GetIncident                                                                                                                                                 |        |
|---------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| <b>Description:</b> Test Web Service GetIncident Operation. This service is used to Get an existing incident record from the IRS.           |                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                |        |
| <b>Initialisation Instructions:</b> The SecurityToken from the Logon will need to be used in the SOAP Header for the web service operation. |                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                |        |
| Step No.                                                                                                                                    | Action & Input Data                                                                                                                                                                                                                                                                              | Expected Result                                                                                                                                                                | ✓ or ✕ |
| 3-01                                                                                                                                        | <b>GetIncident Successful. (Primary Fire previously Inserted). Will be Amended in the next set of scenarios.</b><br><br>Request Incident with valid FRSIncidentNumber allocated from the InsertIncident request.<br><br>Use:<br>IRS_WS_3-01_GetIncidentDetailsRequest-v1-0_PF-Minimum-Closed.xml | SOAP Body with successful GetIncident response.<br>SOAP Body with no 'Fatal' category errors in Validation structure.<br>SOAP Body with Schema Version value expected – 'v1-0' | ✓      |
| 3-04                                                                                                                                        | <b>GetIncident Successful. (False Alarm previously Inserted). Will be Amended in the next set of scenarios.</b><br><br>Request Incident with valid FRSIncidentNumber allocated from the InsertIncident request.<br><br>Use:<br>IRS_WS_3-04_GetIncidentDetailsRequest-v1-0_FalseAlarm-Closed.xml  | SOAP Body with successful GetIncident response.<br>SOAP Body with no 'Fatal' category errors in Validation structure.                                                          | ✓      |
|                                                                                                                                             |                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                |        |
| 3-10                                                                                                                                        | <b>Incident does not exist.</b><br><br>Request Incident with invalid IncidentId.<br><br>Use:<br>IRS_WS_3-01_GetIncident_Request.xml                                                                                                                                                              | RETURNS a Valid GetIncident Response, but with no Incident content and a Validation Error with <b>4001</b> (Incident identifier does not exist).                               | ✕      |
| 3-11                                                                                                                                        | <b>Invalid SessionToken.</b><br><br>Request GetIncident without correct SessionToken (ideally another FRS user account allocated SessionToken).<br><br>Use:<br>IRS_WS_3-01_GetIncident_Request.xml                                                                                               | Confirm SOAP Fault response has failed with a Error Code = <b>1101</b> (The SessionToken is invalid)                                                                           | ✕      |
| 3-12                                                                                                                                        | <b>Session Timeout.</b><br><br>Request GetIncident with correct SessionToken, but after timeout period<br><br>Use:<br>IRS_WS_3-01_GetIncident_Request.xml<br><br>Session Timeout currently set to 20 minutes.                                                                                    | Confirm SOAP Fault response has failed with a Error Code = <b>1101</b> (The SessionToken is invalid)                                                                           | ✕      |



| Test: IRS_WS_3 |                                                                                                                                                                                                    | Test Web Service - GetIncident                                                                                                                           |   |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 3-13           | <p><b>Can't access another FRS incident.</b></p> <p>Request GetIncident with correct SessionToken and IncidentId belonging to another FRS.</p> <p>Use:<br/>IRS_WS_3-01_GetIncident_Request.xml</p> | <p>RETURNS a Valid GetIncident Response, but with no Incident content and a Validation Error with <b>1102</b> (Access restricted to incident record)</p> | ✘ |

## 5.4 AmendIncident Operation

| Test: IRS_WS_4                                                                                                                                       |                                                                                                                                                                                                                                         | Test Web Service - AmendIncident                                                                                                                                                                              |              |
|------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| <b>Description:</b> Test Web Service AmendIncident Operation. This service is used to Amend incidents for incidents previously submitted to the IRS. |                                                                                                                                                                                                                                         |                                                                                                                                                                                                               |              |
| <b>Initialisation Instructions:</b> The SecurityToken from the Logon will need to be used in the SOAP Header for the web service operation.          |                                                                                                                                                                                                                                         |                                                                                                                                                                                                               |              |
| Step No.                                                                                                                                             | Action & Input Data                                                                                                                                                                                                                     | Expected Result                                                                                                                                                                                               | ✓<br>or<br>x |
| 4-01                                                                                                                                                 | <b>AmendIncident Successful. Adding Resource and Primary Fire details.</b><br><br>Use:<br>IRS_WS_4-01_AmendIncidentDetailsRequest-v1-0_PF-Dwelling-Minimum-Published.xml                                                                | Confirm SOAP Header response has valid security elementand SOAP Body response.<br><br>SOAP Body with successful AmendIncident response.<br>SOAP Body with no 'Fatal' category errors in Validation structure. | ✓            |
| 4-04                                                                                                                                                 | <b>AmendIncident from Challenged Call to False Alarm with FOSI and Firefighter injuries.</b><br><br>AttackOnFirefighters data structure populated.<br><br>Use:<br>IRS_WS_4-04_AmendIncidentDetailsRequest-v1-0_FalseAlarm-Published.xml | Confirm SOAP Header response has valid security elementand SOAP Body response.<br><br>SOAP Body with successful AmendIncident response.<br>SOAP Body with no 'Fatal' category errors in Validation structure. | ✓            |

|      | INVALID TEST CASES                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                       |   |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 4-30 | <p><b>AmendIncident – Locked record.</b></p> <p>Request Incident with valid details for an incident that has been recently obtained and amended by another user request.</p> <p>Use:<br/>One of the Amend records.</p>              | <p>Confirm SOAP Header response has valid security element and SOAP Body response.</p> <p>SOAP Body with successful GetIncident response. Incident Details are returned.</p> <p>SOAP Body with a Validation Error Code = <b>2009</b> (Incident has been locked – see Audit Details in Incident above for who has Incident locked)</p> | ✕ |
| 4-31 | <p><b>Incident does not exist.</b></p> <p>Request Incident with invalid IncidentId.</p> <p>Use:<br/>One of the Amend records changing FRSIncidentNumber to invalid value.</p>                                                       | <p>Confirm SOAP Fault response has failed with an Error Code = <b>4001</b> (Incident identifier does not exist)</p>                                                                                                                                                                                                                   | ✕ |
| 4-32 | <p><b>Incident can not be Published.</b></p> <p>Use:<br/>One of the Amend records changing IncidentStatus to '70' and ValidationStatus to 'Full', but add FOSI details with Classification of 'C', but no 'TypeOfAttack' value.</p> | <p>Confirm SOAP Fault response has failed with an Error Code = <b>3999</b> (Incident cannot be Published as a result of outstanding Errors or Warnings)</p>                                                                                                                                                                           | ✕ |

## 5.5 SearchIncidents Operation

| Test: IRS_WS_5                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                        | Test IRS Web Service – SearchIncidents                                                                                                                                                                                                                                             |        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| <b>Description:</b> Test IRS Web Service SearchIncidents operation. The SearchIncidents will return zero, 1 or many incidents based on the search criteria and filters. |                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                    |        |
| <b>Initialisation Instructions:</b> The SecurityToken from the successful Logon (1-01) will need to be used in the SOAP Header for the web service operation.           |                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                    |        |
| Step No.                                                                                                                                                                | Action & Input Data                                                                                                                                                                                                                                                                                                                                                                    | Expected Result                                                                                                                                                                                                                                                                    | ✓ or ✗ |
| 5-01                                                                                                                                                                    | <b>Search incidents successful. Records returned.</b><br><br>Perform SearchIncidents operation request with the valid search criteria and no filters.<br><br>Search for all Incidents for a Date Range of TimeOfCall, FRSId (part of NationalStatisticsNumber).<br><br>Use:<br>IRS_WS_5_01_SearchIncidentsRequest-v1-0.xml                                                             | Confirm SOAP Body response has SearchIncidentsResponse element containing 0 to many Incidents.<br><br>Note: SearchControl / TotalSize will be equal the number of Incident repeated elements.<br><br>Check no Errors in the Validation section.<br><br>Check valid Schema Version. | ✓      |
| 5-02                                                                                                                                                                    | <b>Search incidents successful. No Records returned.</b><br><br>Perform SearchIncidents operation request with the valid search criteria and no filters.<br><br>Search for all Incidents for a Date Range of TimeOfCall (identifies no records), FRSId (part of NationalStatisticsNumber) and filter to Fires, Status, etc.<br><br>Use:<br>IRS_WS_5_02_SearchIncidentsRequest-v1-0.xml | Confirm SOAP Body response has SearchIncidentsResponse element containing 0 to many Incidents.<br><br>Note: SearchControl / TotalSize will be zero with no Incident elements.<br><br>Check no Errors in the Validation section.<br><br>Check valid Schema Version.                 | ✓      |
|                                                                                                                                                                         | <b>INVALID TEST CASES</b>                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                    |        |
| 5-10                                                                                                                                                                    | <b>Search incidents invalid date range.</b><br><br>Perform SearchIncidents operation request with the invalid search criteria date range (End Date <= Start Date).<br><br>Use:<br>IRS_WS_5_02_SearchIncidentsRequest-v1-0.xml<br><br>Note: Dates need editing.                                                                                                                         | Confirm SOAP Fault response has been returned with Error Code = <b>4002</b> (Search Date Range invalid).                                                                                                                                                                           | ✗      |

|      |                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                |   |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|      | <b>VARIOUS TERRITORY AND OVER THE BORDER SEARCH TEST CASES</b>                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                |   |
| 5-20 | <p><b>Search incidents – Case 1 – All Incidents in your FRS Territory and also recorded by your FRS OverTheBorder</b></p> <p><b>Uses ByFRS Structure</b></p> <p>Use:<br/>IRS_WS_5_20_SearchIncidentsRequest-v1-0.xml</p>                                                                                   | <p>Confirm SOAP Body response has SearchIncidentsResponse element containing the following Incidents only:</p> <ul style="list-style-type: none"> <li>IRS_WS_2_41, 42, 43, 44, 45 (5 in Total)</li> </ul> <p>Check no Errors in the Validation section.</p> <p>Check valid Schema Version.</p> | ✓ |
| 5-21 | <p><b>Search incidents – Case 2 – Only Incidents in your FRS Territory</b></p> <p><b>Uses ByTerritoryCategory Structure</b></p> <p>Use:<br/>IRS_WS_5_21_SearchIncidentsRequest-v1-0.xml</p>                                                                                                                | <p>Confirm SOAP Body response has SearchIncidentsResponse element containing the following Incidents only:</p> <ul style="list-style-type: none"> <li>IRS_WS_2_41, 42, 45 (3 in Total)</li> </ul> <p>Check no Errors in the Validation section.</p> <p>Check valid Schema Version.</p>         | ✓ |
| 5-22 | <p><b>Search incidents – Case 3 – Only Incidents in your FRS Territory, but only for Station 01</b></p> <p><b>Uses ByTerritoryCategory Structure</b></p> <p><b>OverTheBorder set to 'no'</b></p> <p>Use:<br/>IRS_WS_5_22_SearchIncidentsRequest-v1-0.xml</p>                                               | <p>Confirm SOAP Body response has SearchIncidentsResponse element containing the following Incidents only:</p> <ul style="list-style-type: none"> <li>IRS_WS_2_42 (1 in Total)</li> </ul> <p>Check no Errors in the Validation section.</p> <p>Check valid Schema Version.</p>                 | ✓ |
| 5-23 | <p><b>Search incidents – Case 4 – Only Incidents in other FRS Territory (OverTheBorder) recorded by your FRS</b></p> <p><b>OverTheBorder set to 'yes'</b></p> <p>Use:<br/>IRS_WS_5_23_SearchIncidentsRequest-v1-0.xml</p>                                                                                  | <p>Confirm SOAP Body response has SearchIncidentsResponse element containing the following Incidents only:</p> <ul style="list-style-type: none"> <li>IRS_WS_2_43, 44 (2 in Total)</li> </ul> <p>Check no Errors in the Validation section.</p> <p>Check valid Schema Version.</p>             | ✓ |
| 5-24 | <p><b>Search incidents – Case 5 – All Incidents in your FRS Territory and recorded by other FRS (OverTheBorder) in your territory</b></p> <p><b>Uses ByTerritoryCategory Structure: Identifier, ResponsibleParty and OverTheBorder set</b></p> <p>Use:<br/>IRS_WS_5_24_SearchIncidentsRequest-v1-0.xml</p> | <p>Confirm SOAP Body response has SearchIncidentsResponse element containing the following Incidents only:</p> <ul style="list-style-type: none"> <li>IRS_WS_2_41 (1 in Total)</li> </ul> <p>Check no Errors in the Validation section.</p> <p>Check valid Schema Version.</p>                 | ✓ |

|      |                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                        |   |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 5-25 | <p><b>Search incidents – Case 6 – All Incidents in other FRS Territories and recorded by your FRS as Over The Border</b></p> <p><b>OverTheBorder set to 'yes'</b></p> <p>Use:<br/>IRS_WS_5_25_SearchIncidentsRequest-v1-0.xml</p>                                     | <p>Confirm SOAP Body response has SearchIncidentsResponse element containing the following Incidents only:</p> <ul style="list-style-type: none"> <li>IRS_WS_2_43, 44 (2 in Total)</li> </ul> <p>Check no Errors in the Validation section.</p> <p>Check valid Schema Version.</p>                     | ✓ |
| 5-26 | <p><b>Search incidents – Case 7 – Only Incidents your FRS is responsible for recording (in your territory and over the border)</b></p> <p><b>Uses ByTerritoryCategory Structure: ResponsibleParty</b></p> <p>Use:<br/>IRS_WS_5_26_SearchIncidentsRequest-v1-0.xml</p> | <p>Confirm SOAP Body response has SearchIncidentsResponse element containing the following Incidents only:</p> <ul style="list-style-type: none"> <li>IRS_WS_2_42, 43, 44, 45 (4 in Total)</li> </ul> <p>Check no Errors in the Validation section.</p> <p>Check valid Schema Version.</p>             | ✓ |
|      | <b>VARIOUS INCIDENT STATUS TEST CASES</b>                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                        |   |
| 5-30 | <p><b>Search incidents – Case 1 – All Incidents Status 0 to 90</b></p> <p><b>Uses ByFRS Structure</b></p> <p>Use:<br/>IRS_WS_5_30_SearchIncidentsRequest-v1-0.xml</p>                                                                                                 | <p>Confirm SOAP Body response has SearchIncidentsResponse element containing the following Incidents only:</p> <ul style="list-style-type: none"> <li>IRS_WS_2_40, 41, 42, 43, 44, 45, 50 (7 in Total)</li> </ul> <p>Check no Errors in the Validation section.</p> <p>Check valid Schema Version.</p> | ✓ |
| 5-31 | <p><b>Search incidents – Case 1 – All Incidents Status 50 to 70</b></p> <p><b>Uses ByFRS Structure</b></p> <p>Use:<br/>IRS_WS_5_31_SearchIncidentsRequest-v1-0.xml</p>                                                                                                | <p>Confirm SOAP Body response has SearchIncidentsResponse element containing the following Incidents only:</p> <ul style="list-style-type: none"> <li>IRS_WS_2_41, 42, 43, 44 (4 in Total)</li> </ul> <p>Check no Errors in the Validation section.</p> <p>Check valid Schema Version.</p>             | ✓ |

## 5.6 Logoff (SecurityRequest) Operation

| Test: IRS_WS_6                                                                                                                                                                                                  |                                                                                                                                                                           | Test IRS Web Service – Logoff                                                                                    |              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|--------------|
| <b>Description:</b> Test IRS Web Service Logoff capability via the Logon operation. The SecurityRequest structure is used to send a 'cancel' request for the sessionToken created when the Logon was performed. |                                                                                                                                                                           |                                                                                                                  |              |
| <b>Initialisation Instructions:</b> The SecurityToken from the successful Logon (1-01) will need to be used in the SOAP Header for the web service operation.                                                   |                                                                                                                                                                           |                                                                                                                  |              |
| Step No.                                                                                                                                                                                                        | Action & Input Data                                                                                                                                                       | Expected Result                                                                                                  | ✓<br>or<br>x |
| 6-01                                                                                                                                                                                                            | <b>Logoff successful.</b><br><br>Perform logoff operation request with the valid request type 'cancel' and SessionToken.<br><br>Use: IRS_WS_6_01_LogoffRequest-v1-0.xml   | Confirm SOAP Body response has RequestedTokenCancelled response element.                                         | ✓            |
|                                                                                                                                                                                                                 |                                                                                                                                                                           |                                                                                                                  |              |
| 6-10                                                                                                                                                                                                            | <b>Logoff failed – session not available.</b><br><br>Perform logoff operation request with the valid Username and Password.<br><br>Use:<br>IRS_WS_6_01_Logout_Request.xml | Confirm SOAP Fault response has been returned with Fatal Error Code = <b>1002</b> (SessionToken does not exist). | x            |