ngEO Task 4

Web Client

Test Plan Document

document status sheet

| Version | Date | Pages | Changes |
| --- | --- | --- | --- |
| 0.1 | 23/10/2012 | 29 | First published version |
| 0.2 | 25/10/2012 | 33 | First DDR version |
| 0.3 | 29/10/2012 | 39 | Added all sprint 2 test cases  fixed headers’ style  and updated headers and footers |
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| 1.1 | 06/03/2013 | 96 | NGEOC-125 : remove SRD from tables in 7.1, 7.2  NGEOC-126 : update table to deal with test cases in 7.1, 7.2  NGEOC-127 : fix title identifiers  NGEOC-131: add downloadmanagers in envrionement needs  [NGEOC-133](https://magelliumltd.atlassian.net/browse/NGEOC-133) : add the estimated download size in the PCF  NGEOC-136 ; complete PCF (130,131,140,140,141)  NGEOC-144: Fix front page formatting  [NGEOC-145](https://magelliumltd.atlassian.net/browse/NGEOC-145" \t "_parent) : remove TBC for sprint 3 and 4 comments  NGEOC-146: add some description on stub server configuration and test data. |
| 1.2 | 20/03/2013 | 97 | NGEOC-129: Add number of results to the VTP  NGEOC-132: Specify which products to select  NGEOC-134: Specify number of days and check  NGEOC-138: specify download options  NGEOC-139: add the data in input specification  NGEOC-142: specify search options (VTP-200,215,220) |

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# Introduction

This document has been created taking as a base the corresponding DRD (Document Requirements Definition) in [AD.1].

## Purpose

This document defines the Test Plan for the ngEO Web Client sub-system.

This document provides the definition of the Test Design, Test Cases, and Test Procedures identified for verifying and validating the ngEO Web Client sub-system against the Software Requirements Specifications as defined in [AD.2].

This document will be updated during the ngEO project.

## Scope

This document covers only the requirements found in the Software Requirements Specifications as defined in [AD.2].

# Applicable and Reference Documents

## Applicable Documents

The following documents, of the exact issue shown, form part of this document to the extent specified herein. Applicable documents are those referenced in the Contract or approved by the Approval Authority. They are referenced in this document in the form [AD.X]:

Table 2‑1 Applicable Documents

| Ref. | Title | Code | Version | Date |
| --- | --- | --- | --- | --- |
|  | Space Engineering - Software | ECSS-E-ST-40 | C | 6 March 2009 |
|  | SUBSYSTEM REQUIREMENT DOCUMENT FOR NGEO WEB USER CLIENT | ngEO-14-SRD-ELC-005 | 1.2 | 23 March 2012 |
|  | Installation Operation and Maintenance Manual | ngEO-WEBC-IOM | 0.1 | 15 October 2012 |
|  | INTERNAL INTERFACE CONTROL DOCUMENT WEB CLIENT - WEB SERVER | ngEO-14-ICD-ELC-075 | 1.2 | 29 March 2012 |
|  | NGEO SYSTEM REQUIREMENT DOCUMENT | ngEO-13-SRD-MFR-004 | 1.6 | 21 August 2012 |

## Reference Documents

The following documents, although not part of this document, amplify or clarify its contents. Reference documents are those not applicable and referenced within this document. They are referenced in this document in the form [RD.X]:

Table 2‑2 Reference Documents

| Ref. | Title | Code | Version | Date |
| --- | --- | --- | --- | --- |
|  | ngEO Detailed Design Document | ngEO-WEBC-DDS | 0.2 | 25 October 2012 |

# Terms, Definitions and Abbreviated Terms

## Definitions

Concepts and terms used in this document and needing a definition are included in the following table:

Table 3‑1 Definitions

| Concept / Term | Definition |
| --- | --- |
|  |  |

## Acronyms

Acronyms used in this document and needing a definition are included in the following table:

Table 3‑2 Acronyms

| Acronym | Definition |
| --- | --- |
| AMD | Asynchronous Module Definition |
| CSS | Cascading Style Sheet |
| DOM | Document Object Model |
| JSON | Javascript Object Notation |
| HTML | Hyper Text Markup Langague |
| MVC | Model View Controller |
| OGC | Open Geospatial Consortium |
| REST | Representational State Transfer |
| RPM | RPM Package Manager |
| WMTS | Web Mapping Tile Service |

# Software overview

The Web Client is the user interface of the ngEO system and is also the main visible part of the whole system. The main target of the design is to provide an easy to use interface and also highly responsive in order to receive positive feedback from the end user on the entire system. It is also important that the interface is based on modern design and easily configurable to ensure it will not be obsolete too early during the long operational life of ngEO (20 years).

The Web Client allows a user to:

* Search products in available Datasets :
  + Discover and select Datasets directly or through filters (mission/sensor/keywords)
  + Search products in a selected Dataset using various criteria (spatial, temporal, specific)
  + Advanced search : correlation and interferometry
* Explore search results :
  + List them in a tabular view
  + Display them in a GANTT chart
  + Display their footprint in a map
  + Display their browse images in a map
* Download products :
  + Direct download through native browser functionality
  + Retrieve products via ngEO Download Manager through a data access request
  + Configure optional processing options for products retrieved through download manager
  + Configure “Standing Orders” : schedule download of products through specific criteria
  + Monitor download manager and data access request
* Manage shop carts :
  + Store a list of products from a search results in a shopcart for later reuse
  + Share shopcart with other users
* Access to various user related features :
  + Access to account management page on the UM-SSO Idp
  + Access to the ticketing system
  + Access to information page (About Us)
* Manage customizable Web client configuration

See ngEO Web Client DDS ([RD.1]) for a more complete description of the software.

# Software Unit Testing and Software Integration Testing

## General

### Organization

The software unit testing and software integration testing is based on SCRUM methodology. The developer is responsible to demonstrate a User story once completed. The Project Manager is responsible to ensure that the User story is correctly working.

### Master Schedule

The software integration testing is done at completion of each User Story through a demonstration.

The software integration testing is validated at the end of each sprint through a demonstration of all user stories to the system integrator.

### Resource Summary

Final testing at end of each sprint is done on pre-integration platform.

No specific hardware and software are needed, except those listed in the IOM.

No specific staff is needed except those listed in responsibilities.

### Responsibilities

Developer is responsible to demonstrate the User Story once completed at the Project Manager.

Project Manager is responsible to demonstrate User Stories at the end of each sprint to integrator.

### Tools, Techniques and Methods

Software unit testing is done using QUnit: a JavaScript Unit Testing framework using by various OpenSource projects (jQuery family).

Software integration testing is done through demonstration.

### Personnel and Personnel Training Requirements

None

### Risks and Contingencies

None

## Control Procedures for Software Unit Testing/Integration testing

A lightweight process is used for software unit testing/integration testing because the team responsible of Web Client development is integrated at the same location:

* Integration testing: Integration testing is done by developer during development of a User Story. Any problems are reported to project manager, and actions are taken immediately to resolve it : analysis of existing components and possible refactor.
* Unit testing: Unit tests are checked at the completion of each User Story. Any unit tests failures are reported to project manager, and correction is immediately taken. If correction is too complex, the failure and its explanation is reported in an internal issues file.

## Software Unit Testing and Integration testing Approach

### Unit/Integration Testing Strategy

The sub-system is developed by the same team and components are closely tied together so integration problems are directly discovered and solved during development process without formal strategy.

Unit testing is done by the developer. Unit test is code done in Javascript that verify the behaviour of a component.

### Tasks and Items under Test

The task includes the execution of unit tests and a check of the result.

The execution of unit tests is automatic and consists in launching a web page that contains all unit tests.

### Features to be Tested

Core feature of components are tested.

### Features not to be Tested

Complex user interaction cannot be tested by unit tests.

### Test Pass – Fail Criteria

Pass-fail results are automatically given by the unit testing framework QUnit. See examples below.



Figure 1 Unit test results

## Software Unit Test / Integration Test Design

### General

This section provides the Unit Test Designs aimed to test the ngEO Web Client sub-system. For the identification of the Test Designs the following naming convention shall apply:

* NGEO-WEBC-UTD\_<UTD\_nnnn>:<Title>
  + <UTD\_nnnn>: 4 digits number (generally having a stepping interval of 10)
  + <Title> Title of the Test Design

### NGEO-WEBC-UTD-0010: Configuration

|  |  |  |  |
| --- | --- | --- | --- |
| ***NGEO UNIT TEST DESIGN*** | | | |
| **Test Identifier** | *NGEO-WEBC-UTD-0010* | **Test Title** | *Installation of Web Client* |
| Description and Objective | | | |
| *The design of this test deals with the verification of the configuration data used by the WebClient.* | | | |
| **Features to be tested** | | | |
| This test shall verify:   * Configuration data is accessible * Configuration data contains excepted values | | | |
| **Approach refinements** | | | |
| The aim of this test is to check configuration data is valid. | | | |
| **Test Case Identifiers** | | | |
|  | | | |

### NGEO-WEBC-UTD-0020: Dataset population

|  |  |  |  |
| --- | --- | --- | --- |
| ***NGEO UNIT TEST DESIGN*** | | | |
| **Test Identifier** | *NGEO-WEBC-UTD-0020* | **Test Title** | *Dataset population* |
| Description and Objective | | | |
| *The design of this test deals with the verification of received datasets, and the filtering of the dataset population* | | | |
| **Features to be tested** | | | |
| This test shall verify:   * Received datasets is working * Filtering of datasets is working | | | |
| **Approach refinements** | | | |
| The aim of this test is to check that the WebClient can manipulate the dataset population. | | | |
| **Test Case Identifiers** | | | |
|  | | | |

### NGEO-WEBC-UTD-0030: Dataset search information

|  |  |  |  |
| --- | --- | --- | --- |
| ***NGEO UNIT TEST DESIGN*** | | | |
| **Test Identifier** | *NGEO-WEBC-UTD-0030* | **Test Title** | *Dataset search information* |
| Description and Objective | | | |
| *The design of this test deals with the verification of received dataset search information.* | | | |
| **Features to be tested** | | | |
| This test shall verify:   * Dataset search information is retreived * Information contains valid download options * Information contains valid advanced search criteria | | | |
| **Approach refinements** | | | |
| The aim of this test is to check that the WebClient can manipulate the dataset search information. | | | |
| **Test Case Identifiers** | | | |
|  | | | |

### NGEO-WEBC-UTD-0040: Search results selection

|  |  |  |  |
| --- | --- | --- | --- |
| ***NGEO UNIT TEST DESIGN*** | | | |
| **Test Identifier** | *NGEO-WEBC-UTD-0040* | **Test Title** | *Search results selection* |
| Description and Objective | | | |
| *The design of this test deals with the verification of search results selection management* | | | |
| **Features to be tested** | | | |
| This test shall verify:   * Search results can be selected/deselected * Components can listen to selection/deselection | | | |
| **Approach refinements** | | | |
| The aim of this test is to check that the WebClient can manipulate the selection of searc h results. | | | |
| **Test Case Identifiers** | | | |
|  | | | |

### NGEO-WEBC-UTD-0050: Data Acess Request statuses

|  |  |  |  |
| --- | --- | --- | --- |
| ***NGEO UNIT TEST DESIGN*** | | | |
| **Test Identifier** | *NGEO-WEBC-UTD-0050* | **Test Title** | *Data Acess Request statues* |
| Description and Objective | | | |
| *The design of this test deals with the verification of data access request statuses* | | | |
| **Features to be tested** | | | |
| This test shall verify:   * Data Access Request status are valid | | | |
| **Approach refinements** | | | |
| The aim of this test is to check that the WebClient can manipulate data access request statuses. | | | |
| **Test Case Identifiers** | | | |
|  | | | |

### NGEO-WEBC-UTD-0060: Simple Data Acess Request

|  |  |  |  |
| --- | --- | --- | --- |
| ***NGEO UNIT TEST DESIGN*** | | | |
| **Test Identifier** | *NGEO-WEBC-UTD-0060* | **Test Title** | *Simple Data Acess Request* |
| Description and Objective | | | |
| *The design of this test deals with the management of simple data access request.* | | | |
| **Features to be tested** | | | |
| This test shall verify:   * Simple Data Access Request can be created and send to the server | | | |
| **Approach refinements** | | | |
| The aim of this test is to check that the WebClient can manage simple data access request. | | | |
| **Test Case Identifiers** | | | |
|  | | | |

### NGEO-WEBC-UTD-0070: Standing Order Data Acess Request

|  |  |  |  |
| --- | --- | --- | --- |
| ***NGEO UNIT TEST DESIGN*** | | | |
| **Test Identifier** | *NGEO-WEBC-UTD-0070* | **Test Title** | *Standing Order Data Acess Request* |
| Description and Objective | | | |
| *The design of this test deals with the management of standing order data access request.* | | | |
| **Features to be tested** | | | |
| This test shall verify:   * Standing Order Data Access Request can be created and send to the server | | | |
| **Approach refinements** | | | |
| The aim of this test is to check that the WebClient can manage standing order data access request. | | | |
| **Test Case Identifiers** | | | |
|  | | | |

### NGEO-WEBC-UTD-0080: Dataset search

|  |  |  |  |
| --- | --- | --- | --- |
| ***NGEO UNIT TEST DESIGN*** | | | |
| **Test Identifier** | *NGEO-WEBC-UTD-0070* | **Test Title** | *Standing Order Data Acess Request* |
| Description and Objective | | | |
| *The design of this test deals with the management of standing order data access request.* | | | |
| **Features to be tested** | | | |
| This test shall verify:   * A dataset search can be build from an existing OpenSearchURL * A dataset search supports bbox and polygon | | | |
| **Approach refinements** | | | |
| The aim of this test is to check that the WebClient can manage importing dataset search in URL form. | | | |
| **Test Case Identifiers** | | | |
|  | | | |

## Software Unit and Integration Test Case Specification

For each unit test design, a JavaScript module is developed and integrated into the QUnit testing framework.

All test cases share the same definition:

* Inputs specification: A web server (test or the sub-system) needs to be accessible.
* Outputs specification : see Figure 1 Unit test results for resulting outputs
* Test Pass – Fail Criteria: see Figure 1 Unit test results, test pass are highlighted in green, test fail in red.
* Environmental needs: The Web Client source code needs to be used, not the packaged version.

The following figures shows the unit tests details for each unit test design:















## Software Unit and Integration Test Procedures Specification

The unit tests are automatically launched by the QUnit testing framework.

The only procedure, common to all test cases, is to access the page at location: <http://localhost:3000/client-dev/tests/tests.html>.

# Software Validation Specification

## Software Validation Approach

This section presents the approach to be used for validating the ngEO Web Client sub-system.

### Task and criteria

The task includes the execution of test procedures, analyzes of test results and writing of test reports (including reporting of possible problems).

### Features to be tested

This document is in charge of verifying all requirements listed in the Software Requirements Specification [AD.2].

### Features not to be tested

All requirements and features not reported in Software Requirements Specification [AD.2] are out of the scope of this document.

### Test pass - fail criteria

The pass - fail criterion depends on the validation method applied to each item.

The validation methods used are:

D Demonstration: This verification method may be used when actual conduct can verify achievement of requirements such as service and access, and when the requirements have been implemented.

T Test: A requirement may be verified by test alone if the form of the specification is such that the requirement can be directly measured.

A Analyze: This verification method implies use of analytical techniques (such as system engineering analyzes, statistics, mathematical modeling, and simulations) and shall be used to verify such requirements. This includes requirements which are not implemented in the demonstrator.

I Inspection: Verification by inspection is only done when testing is insufficient or inappropriate. This method of verification is for those requirements that are normally performed by some form of visual inspection.

A Requirements vs. Test cases traceability matrix is provided in section 11.1 and a Test cases vs. Requirements traceability matrix is provided in section 11.2 . The expected result of each test is given in the test procedure description, for any step.

A test shall be considered as "passed" if the received result is equivalent with the expected result.

A test shall be considered as "failed" if the received result is not equivalent with theexpected result.

### Items that cannot be validated by test

There are a number of requirements that cannot be verified by test or demonstration, but manual inspection is needed for verifying their achievement, e.g.:

* Design and implementation requirements specifying the re-use of software
* Verifying that the developed software is provided as OSS and that the code has been provided to an agreed repository
* The development process carried out according to ECSS standards
* Etc..

### Regression Tests

Regression testing is covered by unit tests and functional tests.

Unit tests are presented in paragraph 5.

Functional tests consist in running all software validation procedures manually before each release, not just procedures for new features.

## Software Validation Testing Specification Design

### General

This section provides the Test Designs aimed to validate the ngEO Web Client sub-system. For the identification of the Test Designs the following naming convention shall apply:

* NGEO-WEBC-VTD\_<VTD\_nnnn>:<Title>
  + <VTD\_nnnn>: 4 digits number (generally having a stepping interval of 10)
  + <Title> Title of the Test Design

### NGEO-WEBC-VTD-0010: Installation of Web Client and home page check

|  |  |  |  |
| --- | --- | --- | --- |
| ***NGEO VALIDATION TEST DESIGN*** | | | |
| **Test Identifier** | *NGEO-WEBC-VTD-0010* | **Test Title** | *Installation of Web Client and home page check* |
| Description and Objective | | | |
| *The design of this test deals with the installation on the system, the configuration and then start-up.* | | | |
| **Features to be tested** | | | |
| This test shall verify:   * the setup, installation and configuration instructions provided as part of the   Installation, Operation and Maintenance Manual ([AD.3])   * access to the home page, and check that different services are available | | | |
| **Approach refinements** | | | |
| The aim of this test is to:   * install and setup the system to be tested through the next tests designs * check the home page | | | |
| **Test Case Identifiers** | | | |
| NGEO-WEBC-VTC-0010 | | | |

### NGEO-WEBC-VTD-0020: Dataset selection

|  |  |  |  |
| --- | --- | --- | --- |
| ***NGEO VALIDATION TEST DESIGN*** | | | |
| **Test Identifier** | *NGEO-WEBC-VTD-0020* | **Test Title** | *Dataset Selection* |
| Description and Objective | | | |
| *The design of this test deals with the visualization of datasets, the selection one of them in order to make a search.* | | | |
| **Features to be tested** | | | |
| This test shall verify:   * The user can visualize the list of available datasets, select one of the datasets and then move to the search criteria page. | | | |
| **Approach refinements** | | | |
| The aim of this test is to:   * Visualize the available datasets, select one of them and move to the search criteria page. | | | |
| **Test Case Identifiers** | | | |
| NGEO-WEBC-VTC-0020 | | | |

### NGEO-WEBC-VTD-0030: Simple search formulation

|  |  |  |  |
| --- | --- | --- | --- |
| ***NGEO VALIDATION TEST DESIGN*** | | | |
| **Test Identifier** | *NGEO-WEBC-VTD-0030* | **Test Title** | *Simple Search Formulation* |
| Description and Objective | | | |
| *The design of this test deals with the formulation of a simple search* | | | |
| **Features to be tested** | | | |
| This test shall verify that:   * The user can formulate a simple search on a dataset. | | | |
| **Approach refinements** | | | |
| The aim of this test is to:   * Formulate a simple search on a dataset using selected start and end dates from a calendar and the current location from the map. | | | |
| **Test Case Identifiers** | | | |
| NGEO-WEBC-VTC-0030 | | | |

### NGEO-WEBC-VTD-0040: Search results in a table

|  |  |  |  |
| --- | --- | --- | --- |
| ***NGEO VALIDATION TEST DESIGN*** | | | |
| **Test Identifier** | *NGEO-WEBC-VTD-0040* | **Test Title** | *Search Results in a table* |
| Description and Objective | | | |
| *The design of this test deals with the displaying of search results in a table.* | | | |
| **Features to be tested** | | | |
| This test shall verify that:   * The search results received are displayed in a table. | | | |
| **Approach refinements** | | | |
| The aim of this test is to:   * Make sure that the search results are displayed in a table. | | | |
| **Test Case Identifiers** | | | |
| NGEO-WEBC-VTC-0040 | | | |

### NGEO-WEBC-VTD-0050: Search results on the map

|  |  |  |  |
| --- | --- | --- | --- |
| ***NGEO VALIDATION TEST DESIGN*** | | | |
| **Test Identifier** | *NGEO-WEBC-VTD-0050* | **Test Title** | *Search Results on the map* |
| Description and Objective | | | |
| *The design of this test deals with the displaying of search results on the map.* | | | |
| **Features to be tested** | | | |
| This test shall verify that:   * The search results received are displayed on the map | | | |
| **Approach refinements** | | | |
| The aim of this test is to:   * Make sure that the search results are displayed also on the map. | | | |
| **Test Case Identifiers** | | | |
| NGEO-WEBC-VTC-0050 | | | |

### NGEO-WEBC-VTD-0060: Browse visualization

|  |  |  |  |
| --- | --- | --- | --- |
| ***NGEO VALIDATION TEST DESIGN*** | | | |
| **Test Identifier** | *NGEO-WEBC-VTD-0060* | **Test Title** | *Browse Visualization* |
| Description and Objective | | | |
| *The design of this test deals with browse visualization of a selected result item.* | | | |
| **Features to be tested** | | | |
| This test shall verify that:   * The browse layer is displayed for a selected result item. | | | |
| **Approach refinements** | | | |
| The aim of this test is to:   * Make sure that for a selected result item, the browse layer is displayed on the map. | | | |
| **Test Case Identifiers** | | | |
| NGEO-WEBC-VTC-0060 | | | |

### NGEO-WEBC-VTD-0070: Filtered dataset selection

|  |  |  |  |
| --- | --- | --- | --- |
| ***NGEO VALIDATION TEST DESIGN*** | | | |
| **Test Identifier** | *NGEO-WEBC-VTD-0070* | **Test Title** | *Filtered Dataset Selection* |
| Description and Objective | | | |
| *The design of this test deals with selecting datasets using* *missions, sensors and keywords filters.* | | | |
| **Features to be tested** | | | |
| This test shall verify that:   * The user is able to select datasets using filters. | | | |
| **Approach refinements** | | | |
| The aim of this test is to:   * Select datasets using missions, sensors and keywords filters. | | | |
| **Test Case Identifiers** | | | |
| NGEO-WEBC-VTC-0070 | | | |

### NGEO-WEBC-VTD-0080: Searching with a URL

|  |  |  |  |
| --- | --- | --- | --- |
| ***NGEO VALIDATION TEST DESIGN*** | | | |
| **Test Identifier** | *NGEO-WEBC-VTD-0080* | **Test Title** | *Searching with url* |
| Description and Objective | | | |
| *The design of this test deals with making a catalogue search using a generated url.* | | | |
| **Features to be tested** | | | |
| This test shall verify that:   * The user is able perform a catalogue search using a url generated by the web client. | | | |
| **Approach refinements** | | | |
| The aim of this test is to:   * Perform a catalogue search using a url generated by the web client. | | | |
| **Test Case Identifiers** | | | |
| NGEO-WEBC-VTC-0080 | | | |

### NGEO-WEBC-VTD-0090: Map layers management

|  |  |  |  |
| --- | --- | --- | --- |
| ***NGEO VALIDATION TEST DESIGN*** | | | |
| **Test Identifier** | *NGEO-WEBC-VTD-0090* | **Test Title** | *Map layers management* |
| Description and Objective | | | |
| *The design of this test deals with managing background layers and displaying data coming from different services.* | | | |
| **Features to be tested** | | | |
| This test shall verify that:   * The user is able to change the background of the map. * The user is able to show/hide layers containing data from WMS/WFS/GeoRSS services | | | |
| **Approach refinements** | | | |
| The test is decomposed in two test cases : one for background, and the other for other layers (WMS/WFS/GeoRSS) | | | |
| **Test Case Identifiers** | | | |
| NGEO-WEBC-VTC-0090  NGEO-WEBC-VTC-0095 | | | |

### NGEO-WEBC-VTD-0100: Map navigation and selection

|  |  |  |  |
| --- | --- | --- | --- |
| ***NGEO VALIDATION TEST DESIGN*** | | | |
| **Test Identifier** | *NGEO-WEBC-VTD-0100* | **Test Title** | *Map navigation and selection* |
| Description and Objective | | | |
| *The design of this test deals with the navigation and selection of products in the map.* | | | |
| **Features to be tested** | | | |
| This test shall verify that:   * The user is able to navigate in the map. * The user is able to select product in the map | | | |
| **Approach refinements** | | | |
| The test is composed of one test case, the two features being quite close. | | | |
| **Test Case Identifiers** | | | |
| NGEO-WEBC-VTC-0100 | | | |

### NGEO-WEBC-VTD-0110: Simple Data Access Request

|  |  |  |  |
| --- | --- | --- | --- |
| ***NGEO VALIDATION TEST DESIGN*** | | | |
| **Test Identifier** | *NGEO-WEBC-VTD-0110* | **Test Title** | *Simple Data Access Request* |
| Description and Objective | | | |
| *The design of this test deals with the creation of a simple data access request from search results’ table.* | | | |
| **Features to be tested** | | | |
| This test shall insure that:   * The user is able to create a simple data access request. * The user is able to assign a download manager to simple data access request. | | | |
| **Approach refinements** | | | |
| The test is composed of one test case, the two features being quite close. | | | |
| **Test Case Identifiers** | | | |
| NGEO-WEBC-VTC-0110 | | | |

### NGEO-WEBC-VTD-0120: Standing Order Data Access Request

|  |  |  |  |
| --- | --- | --- | --- |
| ***NGEO VALIDATION TEST DESIGN*** | | | |
| **Test Identifier** | *NGEO-WEBC-VTD-0120* | **Test Title** | *Standing Order Data Access Request* |
| Description and Objective | | | |
| *The design of this test deals with the creation of a standing order data access request from search criteria panel.* | | | |
| **Features to be tested** | | | |
| This test shall insure that:   * The user is able to create a standing order data access request. * The user is able to assign a download manager to standing order data access request. | | | |
| **Approach refinements** | | | |
|  | | | |
| **Test Case Identifiers** | | | |
| NGEO-WEBC-VTC-0120 | | | |

### NGEO-WEBC-VTD-0130: Download Managers Monitoring

|  |  |  |  |
| --- | --- | --- | --- |
| ***NGEO VALIDATION TEST DESIGN*** | | | |
| **Test Identifier** | *NGEO-WEBC-VTD-0130* | **Test Title** | *Download Managers Monitoring* |
| Description and Objective | | | |
| *The design of this test deals with the visualization and monitoring of download managers* | | | |
| **Features to be tested** | | | |
| This test shall insure that:   * The user is able to visualize the available registered download managers and their statuses. * The user is able to enable and/or disable a download manager. * When no download manager has already been registered notify the user and allow him to install a new one. | | | |
| **Approach refinements** | | | |
| The test is composed of two test cases :   * A test case for the two first goals since the two features are closely related. * A test case when no download manager has been registered. | | | |
| **Test Case Identifiers** | | | |
| NGEO-WEBC-VTC-0130  NGEO-WEBC-VTC-0131 | | | |

### NGEO-WEBC-VTD-0140: Data Access Requests Monitoring

|  |  |  |  |
| --- | --- | --- | --- |
| ***NGEO VALIDATION TEST DESIGN*** | | | |
| **Test Identifier** | *NGEO-WEBC-VTD-0140* | **Test Title** | *Data Access Requests Monitoring* |
| Description and Objective | | | |
| *The design of this test deals with the visualization and monitoring of data access requests.* | | | |
| **Features to be tested** | | | |
| This test shall insure that:   * the submitted data access requests can be monitored. | | | |
| **Approach refinements** | | | |
| The user shall be able to:   * visualize the available submitted data access requests and their statuses. * pause/resume or stop a data access request. | | | |
| **Test Case Identifiers** | | | |
| NGEO-WEBC-VTC-0140 | | | |

### NGEO-WEBC-VTD-0150: Direct Download

|  |  |  |  |
| --- | --- | --- | --- |
| ***NGEO VALIDATION TEST DESIGN*** | | | |
| **Test Identifier** | *NGEO-WEBC-VTD-0150* | **Test Title** | *Direct Download* |
| Description and Objective | | | |
| *The design of this test deals with the possibility to control a product direct download.* | | | |
| **Features to be tested** | | | |
| This test shall insure that:   * Direct downloads can be controlled either via a browser or a download manager. * When no download manager has been installed only the browse download possibility is offered. | | | |
| **Approach refinements** | | | |
| The aim of the test is to insure that the user is able to identify the products directly downloadable and choose the download of a product either with the browser or with a registered download manager if there is already one installed. | | | |
| **Test Case Identifiers** | | | |
| NGEO-WEBC-VTC-0150  NGEO-WEBC-VTC-0151 | | | |

### NGEO-WEBC-VTD-0160: Advanced Search Criteria

|  |  |  |  |
| --- | --- | --- | --- |
| ***NGEO VALIDATION TEST DESIGN*** | | | |
| **Test Identifier** | *NGEO-WEBC-VTD-0160* | **Test Title** | *Advanced Search Criteria* |
| Description and Objective | | | |
| *The design of this test deals with :*  *the display and values update of search criteria for the current selected dataset.*  *The search criteria inclusion in the open search request* | | | |
| **Features to be tested** | | | |
| This test shall insure that:   * Search criteria of a dataset can be displayed and their selected values updated. * Dataset search criteria are included in the open Search url. | | | |
| **Approach refinements** | | | |
| The aim of the test is to insure that the user is able to visualize and change the search criteria values of the selected dataset. | | | |
| **Test Case Identifiers** | | | |
| NGEO-WEBC-VTC-0160 : covers the above mentionned goals  NGEO-WEBC-VTC-0165: checks the goals are consistent when the selected dataset changes | | | |

### NGEO-WEBC-VTD-0170: Download options

|  |  |  |  |
| --- | --- | --- | --- |
| ***NGEO VALIDATION TEST DESIGN*** | | | |
| **Test Identifier** | *NGEO-WEBC-VTD-0170* | **Test Title** | *Download Options* |
| Description and Objective | | | |
| *The design of this test deals with :*  *the display and values update of download options for the current selected dataset.*  *The search criteria inclusion in the open search request* | | | |
| **Features to be tested** | | | |
| This test shall insure that:   * Download options of a dataset can be displayed and their selected values updated. * Dataset download options are included in the open Search url. * download options can be updated for product urls in the results’table | | | |
| **Approach refinements** | | | |
| The aim of the test is to insure that the user is able to visualize and change the Download options values of the selected dataset.  Incluse the selected download options values in the open search url  Update the product urls download options. | | | |
| **Test Case Identifiers** | | | |
| NGEO-WEBC-VTC-0170 : covers the above mentionned goals  NGEO-WEBC-VTC-0173: checks that the download options can be updated from the results table.  NGEO-WEBC-VTC-0175: checks the goals are consistent when the selected dataset changes. | | | |

### NGEO-WEBC-VTD-0180: Help

|  |  |  |  |
| --- | --- | --- | --- |
| ***NGEO VALIDATION TEST DESIGN*** | | | |
| **Test Identifier** | *NGEO-WEBC-VTD-0180* | **Test Title** | *Help* |
| Description and Objective | | | |
| *The design of this test deals with access to an online guide and access to context help in the application* | | | |
| **Features to be tested** | | | |
| This test shall insure that:   * User can access an online guide. * An help context is provided | | | |
| **Approach refinements** | | | |
| The test is composed of one test case for online guide and context help, the two features are closely related. | | | |
| **Test Case Identifiers** | | | |
| NGEO-WEBC-VTC-0180 : check access to online guide and context help | | | |

### NGEO-WEBC-VTD-0190: Import

|  |  |  |  |
| --- | --- | --- | --- |
| ***NGEO VALIDATION TEST DESIGN*** | | | |
| **Test Identifier** | *NGEO-WEBC-VTD-0190* | **Test Title** | *Import* |
| Description and Objective | | | |
| *The design of this test deals with import of KML and other shape formats to define geographical area* | | | |
| **Features to be tested** | | | |
| This test shall insure that:   * User can import a geographical area from a file * At least KML is supported * User is informed when the file is invalid * Geographical area is displayed and can be used as a search | | | |
| **Approach refinements** | | | |
| The test is composed of one complete test case for all the features that are closely related. | | | |
| **Test Case Identifiers** | | | |
| NGEO-WEBC-VTC-0190 | | | |

### NGEO-WEBC-VTD-0200: Search Shared URL

|  |  |  |  |
| --- | --- | --- | --- |
| ***NGEO VALIDATION TEST DESIGN*** | | | |
| **Test Identifier** | *NGEO-WEBC-VTD-0200* | **Test Title** | *Search Shared URL* |
| Description and Objective | | | |
| *The design of this test deals with search order shared URL* | | | |
| **Features to be tested** | | | |
| This test shall insure that:   * The Search Request can be shared | | | |
| **Approach refinements** | | | |
|  | | | |
| **Test Case Identifiers** | | | |
| NGEO-WEBC-VTC-0200 | | | |

### NGEO-WEBC-VTD-0210: Standing Order Shared URL

|  |  |  |  |
| --- | --- | --- | --- |
| ***NGEO VALIDATION TEST DESIGN*** | | | |
| **Test Identifier** | *NGEO-WEBC-VTD-0210* | **Test Title** | *Standing Order Shared URL* |
| Description and Objective | | | |
| *The design of this test deals with standing order request shared URL* | | | |
| **Features to be tested** | | | |
| This test shall insure that:   * The Standing Order Request can be shared for both time-driven and data-driven types. | | | |
| **Approach refinements** | | | |
|  | | | |
| **Test Case Identifiers** | | | |
| NGEO-WEBC-VTC-0210 : data-driven standing order shared url  NGEO-WEBC-VTC-0215 : time-driven standing order shared url | | | |

### NGEO-WEBC-VTD-0220: Zone of interest definition

|  |  |  |  |
| --- | --- | --- | --- |
| ***NGEO VALIDATION TEST DESIGN*** | | | |
| **Test Identifier** | *NGEO-WEBC-VTD-0220* | **Test Title** | *Zone of interest defintion* |
| Description and Objective | | | |
| *The design of this test deals with the differents tools available to define a zone of interest (or search area).* | | | |
| **Features to be tested** | | | |
| This test shall insure that:   * The zone of interest can be drawn on the map using a rectangle or polygon tool * The zone of interest can be choosen a region from gazetter * The zone of interest can be set by entering manually polygon points | | | |
| **Approach refinements** | | | |
| The test is composed of different test cases for each main features (draw, gazetteer, manual polygon). | | | |
| **Test Case Identifiers** | | | |
| NGEO-WEBC-VTC-0220 : Zone of interest : draw  NGEO-WEBC-VTC-0224 : Zone of interest : gazetteer  NGEO-WEBC-VTC-0228 : Zone of interest : manual polygon | | | |

### NGEO-WEBC-VTD-0230: Export

|  |  |  |  |
| --- | --- | --- | --- |
| ***NGEO VALIDATION TEST DESIGN*** | | | |
| **Test Identifier** | *NGEO-WEBC-VTD-0230* | **Test Title** | *Export* |
| Description and Objective | | | |
| *The design of this test deals with export of KML and other shape formats for products.* | | | |
| **Features to be tested** | | | |
| This test shall insure that the user can export products in KML or other shape formats from a selection. | | | |
| **Approach refinements** | | | |
| The test is composed of one test case. | | | |
| **Test Case Identifiers** | | | |
| NGEO-WEBC-VTC-0230 : Export | | | |

### NGEO-WEBC-VTD-0240: Time Slider

|  |  |  |  |
| --- | --- | --- | --- |
| ***NGEO VALIDATION TEST DESIGN*** | | | |
| **Test Identifier** | *NGEO-WEBC-VTD-0240* | **Test Title** | *Time Slider* |
| Description and Objective | | | |
| *The design of this test deals with the use of the time slider in a catalog search.* | | | |
| **Features to be tested** | | | |
| This test shall insure that:   * The user can enable and disable the time slider * The time slider depends on the selected dataset stop date. * Choose a time range and sumit a search. | | | |
| **Approach refinements** | | | |
|  | | | |
| **Test Case Identifiers** | | | |
| NGEO-WEBC-VTC-0240 : Display the time slider  NGEO-WEBC-VTC-0243 : Time Slider depends on dataset  NGEO-WEBC-VTC-0245 : Search with Time Slider | | | |

### NGEO-WEBC-VTD-0250: User Preferences

|  |  |  |  |
| --- | --- | --- | --- |
| ***NGEO VALIDATION TEST DESIGN*** | | | |
| **Test Identifier** | *NGEO-WEBC-VTD-0250* | **Test Title** | *User Preferences* |
| Description and Objective | | | |
| *The design of this test deals with the support of user preferences.* | | | |
| **Features to be tested** | | | |
| This test shall insure that:   * The application can store the last selected dataset and background layer. | | | |
| **Approach refinements** | | | |
|  | | | |
| **Test Case Identifiers** | | | |
| NGEO-WEBC-VTC-0250: The selected dataset and background layer are stored in the preferences. | | | |

### NGEO-WEBC-VTD-0260: Inquiries

|  |  |  |  |
| --- | --- | --- | --- |
| ***NGEO VALIDATION TEST DESIGN*** | | | |
| **Test Identifier** | *NGEO-WEBC-VTD-0260* | **Test Title** | *Inquiries* |
| Description and Objective | | | |
| *The design of this test deals with the support of inquiries in My Account.* | | | |
| **Features to be tested** | | | |
| This test shall insure that:   * The application offers an interface to enter and submit inquiries. | | | |
| **Approach refinements** | | | |
|  | | | |
| **Test Case Identifiers** | | | |
| NGEO-WEBC-VTC-260: There is an inquiry user interface to submit inquiries. | | | |

## Software Validation Test Case Specification

### General

This section provides the Test Cases aimed to validate the ngEO Web Client sub-system. For the identification of the Test Cases the following naming convention shall apply:

NGEO-WEBC-VTC<TC\_nnnn> : <Title>

* <TC\_nnnn>: 4 digits number (generally having a stepping interval of 10)
* <Title> Title of the Test Case

### NGEO-WEBC-VTC-0010: Installation of Web Client and home page check

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST CASE*** | | | | |
| **Test Identifier** | *NGEO-WEBC-VTC-0010* | | **Test Title** | *Installation of Web Client and home page check* |
| **Description and Objective** | | | | |
| *The design of this test deals with the installation on the system, the configuration and then start-up.* | | | | |
| **Inputs Specification** | | | | |
| RPM files : esa-webclient-ngeo-XX-YY.noarch.rpm  esa-webclient-testserver-ngeo-XX-YY.noarch.rpm | | | | |
| **Outputs Specification** | | | | |
| None | | | | |
| **Environmental needs** | | | | |
| Hardware and software set-up of the test platform as specified in [AD.3]. | | | | |
| **Constraints** | | | | |
| None | | | | |
| **Dependencies** | | | | |
| None | | | | |
| **Pass/Fail Criteria** | | | | |
| *NGEO-WEBC-PFC-0015* | | Open a browser at this URL: http://localhost:3000/client/, and check the interface is opened without errors in less than 3 seconds. | | |
| *NGEO-WEBC-PFC-0016* | | Check that different services are available on the home page : Datsasets, Search, My Account. | | |
| *NGEO-WEBC-PFC-0017* | | Check that the map is centered on a globe map at (0,0) | | |

### NGEO-WEBC-VTC-0020: Dataset selection

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST CASE*** | | | | |
| **Test Identifier** | *NGEO-WEBC-VTC-0020* | | **Test Title** | *Dataset selection* |
| **Description and Objective** | | | | |
| *The design of this test deals with the visualization, the selection of a dataset* | | | | |
| **Inputs Specification** | | | | |
| NGEO-WEBC-VTC-0010 has already been fulfilled: the ngeo web client has already been successfully installed and launched.  The server side implements the **IF-ngEO-IF-DatasetPopulationMatrix** interface in compliance with [AD.4] | | | | |
| **Outputs Specification** | | | | |
| None | | | | |
| **Environmental needs** | | | | |
| Same needs than *NGEO-WEBC-VTC-0010.* | | | | |
| **Constraints** | | | | |
| None | | | | |
| **Dependencies** | | | | |
| The server side implements the **IF-ngEO-IF-DatasetPopulationMatrix** in compliance with [AD.4] | | | | |
| **Pass/Fail Criteria** | | | | |
| *NGEO-WEBC-PFC-0020* | | Open the dataset widget, select one of the available datasets. | | |

### NGEO-WEBC-VTC-0030: Simple Search formulation

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST CASE*** | | | | |
| **Test Identifier** | *NGEO-WEBC-VTC-0030* | | **Test Title** | *Simple Search Formulation* |
| **Description and Objective** | | | | |
| *The design of this test deals with the formulation of a simple search on the web client.* | | | | |
| **Inputs Specification** | | | | |
| NGEO-WEBC-VTC-0010 has already been fulfilled: the ngeo web client has already been successfully installed and launched.  NGEO-WEBC-VTC-0020has already been fulfilled: the dataset selection functionality has already been implemented. | | | | |
| **Outputs Specification** | | | | |
| None | | | | |
| **Environmental needs** | | | | |
| Same needs than *NGEO-WEBC-VTC-0010.* | | | | |
| **Constraints** | | | | |
| None | | | | |
| **Dependencies** | | | | |
| *NGEO-WEBC-VTC-0010 and NGEO-WEBC-VTC-0020 have already been fulfilled.* | | | | |
| **Pass/Fail Criteria** | | | | |
| *NGEO-WEBC-PFC-0030* | | One of the available datasets is selected and the search criteria page is displayed. In this page:   * the start and end dates can be selected using a calendar * the area coordinates (the current map extend) are displayed. | | |

### NGEO-WEBC-VTC-0040: Search results in a table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST CASE*** | | | | |
| **Test Identifier** | *NGEO-WEBC-VTC-0040* | | **Test Title** | *Search Results In a Table* |
| **Description and Objective** | | | | |
| *The design of this test deals with the displaying of simple search results in a table with pagination.* | | | | |
| **Inputs Specification** | | | | |
| NGEO-WEBC-VTC-0010 has already been fulfilled: the ngeo web client has already been successfully installed and launched.  NGEO-WEBC-VTC-0020has already been fulfilled: the dataset selection functionality has already been implemented.  NGEO-WEBC-VTC-0030has already been fulfilled: the simple search formulation has already been implemented. | | | | |
| **Outputs Specification** | | | | |
| None | | | | |
| **Environmental needs** | | | | |
| Same needs than *NGEO-WEBC-VTC-0010.* | | | | |
| **Constraints** | | | | |
| None | | | | |
| **Dependencies** | | | | |
| *NGEO-WEBC-VTC-0010, NGEO-WEBC-VTC-0020 and NGEO-WEBC-VTC-0030 have already been fulfilled.* | | | | |
| **Pass/Fail Criteria** | | | | |
| *NGEO-WEBC-PFC-0040* | | The first received search results are displayed in a table with pagination. | | |
| *NGEO-WEBC-PFC-0041* | | The next results are displayed in a table with pagination. | | |

### NGEO-WEBC-VTC-0050: Search Results on the map

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST CASE*** | | | | |
| **Test Identifier** | *NGEO-WEBC-VTC-0050* | | **Test Title** | *Search Results on the Map* |
| **Description and Objective** | | | | |
| *The design of this test deals with the displaying of simple search results on the map.* | | | | |
| **Inputs Specification** | | | | |
| NGEO-WEBC-VTC-0010 has already been fulfilled: the ngeo web client has already been successfully installed and launched.  NGEO-WEBC-VTC-0040has already been fulfilled: the search results are already displayed in a table. | | | | |
| **Outputs Specification** | | | | |
| None | | | | |
| **Environmental needs** | | | | |
| Same needs than *NGEO-WEBC-VTC-0010.* | | | | |
| **Constraints** | | | | |
| None | | | | |
| **Dependencies** | | | | |
| *NGEO-WEBC-VTC-0010 and NGEO-WEBC-VTC-0040 have already been fulfilled.* | | | | |
| **Pass/Fail Criteria** | | | | |
| *NGEO-WEBC-PFC-0050* | | * The received search results are displayed on the map. | | |

### NGEO-WEBC-VTC-0060: Browse visualization

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST CASE*** | | | | |
| **Test Identifier** | *NGEO-WEBC-VTC-0060* | | **Test Title** | *Browse Visualization* |
| **Description and Objective** | | | | |
| *The design of this test deals with browse visualization.* | | | | |
| **Inputs Specification** | | | | |
| NGEO-WEBC-VTC-0010 has already been fulfilled: the ngeo web client has already been successfully installed and launched. | | | | |
| **Outputs Specification** | | | | |
| None | | | | |
| **Environmental needs** | | | | |
| Same needs than *NGEO-WEBC-VTC-0010.*  *Browse layer are taken from EOX test server : http://ngeo.eox.at/c/wmts/.* | | | | |
| **Constraints** | | | | |
| None | | | | |
| **Dependencies** | | | | |
| *NGEO-WEBC-VTC-0010 has already been fulfilled.* | | | | |
| **Pass/Fail Criteria** | | | | |
| *NGEO-WEBC-PFC-0060* | | * The browse layer of the selected result item is displayed. | | |

### NGEO-WEBC-VTC-0070: Filtered dataset selection

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST CASE*** | | | | |
| **Test Identifier** | *NGEO-WEBC-VTC-0070* | | **Test Title** | *Filtered Dataset Selection* |
| **Description and Objective** | | | | |
| *The design of this test deals with selecting datasets using* *missions, sensors and keywords filters.* | | | | |
| **Inputs Specification** | | | | |
| NGEO-WEBC-VTC-0010 has already been fulfilled: the ngeo web client has already been successfully installed and launched.  NGEO-WEBC-VTC-0020has already been fulfilled: the dataset selection functionality has already been implemented. | | | | |
| **Outputs Specification** | | | | |
| None | | | | |
| **Environmental needs** | | | | |
| Same needs than *NGEO-WEBC-VTC-0010.* | | | | |
| **Constraints** | | | | |
| None | | | | |
| **Dependencies** | | | | |
| *NGEO-WEBC-VTC-0010 and NGEO-WEBC-VTC-0020 have already been fulfilled.* | | | | |
| **Pass/Fail Criteria** | | | | |
| *NGEO-WEBC-PFC-0070* | | * The datasets can be selected using mission criteria. | | |
| *NGEO-WEBC-PFC-0071* | | * The datasets can be selected using sensor criteria | | |
| *NGEO-WEBC-PFC-0072* | | * The datasets can be selected using keywords criteria. | | |
| *NGEO-WEBC-PFC-0073* | | * The datasets can be selected using text string in their ids. | | |

### NGEO-WEBC-VTC-0080: Searching with a URL

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST CASE*** | | | | |
| **Test Identifier** | *NGEO-WEBC-VTC-0080* | | **Test Title** | *Searching with a url* |
| **Description and Objective** | | | | |
| *The design of this test deals with making a catalogue search using a generated url.* | | | | |
| **Inputs Specification** | | | | |
| NGEO-WEBC-VTC-0010 has already been fulfilled: the ngeo web client has already been successfully installed and launched.  NGEO-WEBC-VTC-0030has already been fulfilled: the formulation of a simple search functionality has already been implemented. | | | | |
| **Outputs Specification** | | | | |
| None | | | | |
| **Environmental needs** | | | | |
| Same needs than *NGEO-WEBC-VTC-0010.* | | | | |
| **Constraints** | | | | |
| None | | | | |
| **Dependencies** | | | | |
| *NGEO-WEBC-VTC-0010 and NGEO-WEBC-VTC-0030 have already been fulfilled.* | | | | |
| **Pass/Fail Criteria** | | | | |
| *NGEO-WEBC-PFC-0080* | | * A catalogue search can be performed using a generated search url. | | |
| *NGEO-WEBC-PFC-0081* | | * A catalogue search can be performed using a directly entred preformatted openSearch url. | | |

### NGEO-WEBC-VTC-0090: Map background

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST CASE*** | | | | |
| **Test Identifier** | *NGEO-WEBC-VTC-0090* | | **Test Title** | *Map background* |
| **Description and Objective** | | | | |
| *The design of this test deals with changing the background layers* | | | | |
| **Inputs Specification** | | | | |
| NGEO-WEBC-VTC-0010 has already been fulfilled: the ngeo web client has already been successfully installed and launched. | | | | |
| **Outputs Specification** | | | | |
| None | | | | |
| **Environmental needs** | | | | |
| Same needs than *NGEO-WEBC-VTC-0010.* | | | | |
| **Constraints** | | | | |
| None | | | | |
| **Dependencies** | | | | |
| *NGEO-WEBC-VTC-0010 have already been fulfilled.* | | | | |
| **Pass/Fail Criteria** | | | | |
| *NGEO-WEBC-PFC-0090* | | * The map background can be changed | | |

### NGEO-WEBC-VTC-0095: Map data layers

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST CASE*** | | | | |
| **Test Identifier** | *NGEO-WEBC-VTC-0095* | | **Test Title** | *Map data layers* |
| **Description and Objective** | | | | |
| *The design of this test deals with showing different data layers coming from public services on the web (WFS,GeoRSS,WMS)* | | | | |
| **Inputs Specification** | | | | |
| NGEO-WEBC-VTC-0010 has already been fulfilled: the ngeo web client has already been successfully installed and launched. | | | | |
| **Outputs Specification** | | | | |
| None | | | | |
| **Environmental needs** | | | | |
| Same needs than *NGEO-WEBC-VTC-0010.* | | | | |
| **Constraints** | | | | |
| None | | | | |
| **Dependencies** | | | | |
| *NGEO-WEBC-VTC-0010 have already been fulfilled.* | | | | |
| **Pass/Fail Criteria** | | | | |
| *NGEO-WEBC-PFC-0095* | | * GeoRSS/WFS/WMS data is displayed | | |

### NGEO-WEBC-VTC-0100: Map navigation and selection

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST CASE*** | | | | |
| **Test Identifier** | *NGEO-WEBC-VTC-0100* | | **Test Title** | *Map navigation and selection* |
| **Description and Objective** | | | | |
| *The test deals with the navigation and selection of products in the map.* | | | | |
| **Inputs Specification** | | | | |
| NGEO-WEBC-VTC-0010 has already been fulfilled: the ngeo web client has already been successfully installed and launched.  NGEO-WEBC-VTC-0050 has been done: search results are already displayed in the map. | | | | |
| **Outputs Specification** | | | | |
| None | | | | |
| **Environmental needs** | | | | |
| Same needs than *NGEO-WEBC-VTC-0010.* | | | | |
| **Constraints** | | | | |
| None | | | | |
| **Dependencies** | | | | |
| *NGEO-WEBC-VTC-0010*  *NGEO-WEBC-VTC-0050* | | | | |
| **Pass/Fail Criteria** | | | | |
| *NGEO-WEBC-PFC-0100* | | Navigate in the map 2D and 3D with the mouse | | |
| *NGEO-WEBC-PFC-0105* | | Select one product in the map | | |
| *NGEO-WEBC-PFC-0107* | | Select a stack of products in the map | | |

### NGEO-WEBC-VTC-0110: Simple data access request

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST CASE*** | | | | |
| **Test Identifier** | *NGEO-WEBC-VTC-0110* | | **Test Title** | *Simple data access request* |
| **Description and Objective** | | | | |
| *The test deals with the creation of a simple data access request from the search results table.* | | | | |
| **Inputs Specification** | | | | |
| NGEO-WEBC-VTC-0010 has already been fulfilled: the ngeo web client has already been successfully installed and launched.  NGEO-WEBC-VTC-0040 has been done: search results are already displayed in the table. | | | | |
| **Outputs Specification** | | | | |
| None | | | | |
| **Environmental needs** | | | | |
| Same needs than *NGEO-WEBC-VTC-0010.*  At least one download manager has been installed and registered. | | | | |
| **Constraints** | | | | |
| None | | | | |
| **Dependencies** | | | | |
| *NGEO-WEBC-VTC-0010*  *NGEO-WEBC-VTC-0040* | | | | |
| **Pass/Fail Criteria** | | | | |
| *NGEO-WEBC-PFC-0110* | | The simple data Access request download manager assignment | | |
| *NGEO-WEBC-PFC-0111* | | The simple data Access request is validated. The expected download size is shown. | | |
| *NGEO-WEBC-PFC-0112* | | The data Access request widget is confirmed | | |
| *NGEO-WEBC-PFC-0113* | | The data Access request widget is closed | | |
| *NGEO-WEBC-PFC-0115* | | No download manager registered | | |

### NGEO-WEBC-VTC-0120: Standing Order data access request

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST CASE*** | | | | |
| **Test Identifier** | *NGEO-WEBC-VTC-0120* | | **Test Title** | *Standing Order data access request* |
| **Description and Objective** | | | | |
| *The test deals with the creation of a standing order data access request from the search criteria panel.* | | | | |
| **Inputs Specification** | | | | |
| NGEO-WEBC-VTC-0010 has already been fulfilled: the ngeo web client has already been successfully installed and launched.  NGEO-WEBC-VTC-0030 has been done: search criteria have already been chosen. | | | | |
| **Outputs Specification** | | | | |
| None | | | | |
| **Environmental needs** | | | | |
| Same needs than *NGEO-WEBC-VTC-0010.*  At least two download manager has been installed and registered. | | | | |
| **Constraints** | | | | |
| None | | | | |
| **Dependencies** | | | | |
| *NGEO-WEBC-VTC-0010*  *NGEO-WEBC-VTC-0030* | | | | |
| **Pass/Fail Criteria** | | | | |
| *NGEO-WEBC-PFC-0120* | | Display data-driven standing order widget | | |
| *NGEO-WEBC-PFC-0121* | | Assign a download manager to a standing order request | | |
| *NGEO-WEBC-PFC-0122* | | Validate a standing order request | | |
| *NGEO-WEBC-PFC-0123* | | Confirm a standing order request | | |
| *NGEO-WEBC-PFC-0125* | | Display time-driven standing order widget | | |
| *NGEO-WEBC-PFC-0126* | | Submit data-driven standing order with changed download manager | | |

### NGEO-WEBC-VTC-0130: Download Managers Monitoring

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST CASE*** | | | | |
| **Test Identifier** | *NGEO-WEBC-VTC-0130* | | **Test Title** | *Download Managers Monitoring* |
| **Description and Objective** | | | | |
| *The test deals with the visualization and the monitoring of a registered download manager* | | | | |
| **Inputs Specification** | | | | |
| NGEO-WEBC-VTC-0010 has already been fulfilled: the ngeo web client has already been successfully installed and launched. | | | | |
| **Outputs Specification** | | | | |
| None | | | | |
| **Environmental needs** | | | | |
| Same needs than *NGEO-WEBC-VTC-0010.*  At least one download manager has been installed and registered. | | | | |
| **Constraints** | | | | |
| None | | | | |
| **Dependencies** | | | | |
| *NGEO-WEBC-VTC-0010* | | | | |
| **Pass/Fail Criteria** | | | | |
| *NGEO-WEBC-PFC-0130* | | A message appears when the download managers has been stopped by the Web Server | | |

### NGEO-WEBC-VTC-0131: Download Managers Monitoring: No Download Manager Registered

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST CASE*** | | | | |
| **Test Identifier** | *NGEO-WEBC-VTC-0131* | | **Test Title** | *Download Managers Monitoring when no download manager has been registered* |
| **Description and Objective** | | | | |
| *The test deals with the Download Managers Monitoring when no download manager has been registered.* | | | | |
| **Inputs Specification** | | | | |
| NGEO-WEBC-VTC-0010 has already been fulfilled: the ngeo web client has already been successfully installed and launched. | | | | |
| **Outputs Specification** | | | | |
| None | | | | |
| **Environmental needs** | | | | |
| Same needs than *NGEO-WEBC-VTC-0010.*  No download manager has been registered. See 6.6.3 to remove the download managers registered by default with the stub server. | | | | |
| **Constraints** | | | | |
| None | | | | |
| **Dependencies** | | | | |
| *NGEO-WEBC-VTC-0010* | | | | |
| **Pass/Fail Criteria** | | | | |
| *NGEO-WEBC-PFC-0131* | | A message appears with link to download manager installation when no download managers are installed | | |

### NGEO-WEBC-VTC-0140: Data Access Requests Monitoring

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST CASE*** | | | | |
| **Test Identifier** | *NGEO-WEBC-VTC-0140* | | **Test Title** | *Data Access Requests Monitoring* |
| **Description and Objective** | | | | |
| *The test deals with the visualization and the monitoring of submitted data access requests.* | | | | |
| **Inputs Specification** | | | | |
| NGEO-WEBC-VTC-0010 has already been fulfilled: the ngeo web client has already been successfully installed and launched.  NGEO-WEBC-VTC-0110 : at least simple data access request has been successfully submitted.  NGEO-WEBC-VTC-0120 : at leat standing order has successfully been submitted. | | | | |
| **Outputs Specification** | | | | |
| None | | | | |
| **Environmental needs** | | | | |
| Same needs than *NGEO-WEBC-VTC-0010.*  At least one download manager has been installed and registered. | | | | |
| **Constraints** | | | | |
|  | | | | |
| **Dependencies** | | | | |
| *NGEO-WEBC-VTC-0010*  *NGEO-WEBC-VTC-0110*  *NGEO-WEBC-VTC-0120* | | | | |
| **Pass/Fail Criteria** | | | | |
| *NGEO-WEBC-PFC-0140* | | The request status is changed to cancelled. | | |

### NGEO-WEBC-VTC-0150: Direct Download

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST CASE*** | | | | |
| **Test Identifier** | *NGEO-WEBC-VTC-0150* | | **Test Title** | *Direct Download* |
| **Description and Objective** | | | | |
| *The design of this test deals with the possibility to control a product direct download.* | | | | |
| **Inputs Specification** | | | | |
| NGEO-WEBC-VTC-0010 has already been fulfilled: the ngeo web client has already been successfully installed and launched.  NGEO-WEBC-VTC-0040 has already been performed: a search has been done and search results are displayed in a table. | | | | |
| **Outputs Specification** | | | | |
| None | | | | |
| **Environmental needs** | | | | |
| Same needs than *NGEO-WEBC-VTC-0010.* | | | | |
| **Constraints** | | | | |
| At leat one of the products in search results has a url starting with http or https. | | | | |
| **Dependencies** | | | | |
| *NGEO-WEBC-VTC-0010*  *NGEO-WEBC-VTC-0040* | | | | |
| **Pass/Fail Criteria** | | | | |
| *NGEO-WEBC-PFC-0150* | | A product is downloaded with an URL with a .ngeo suffix. | | |

### NGEO-WEBC-VTC-0151: Direct Download When No Download Manager Registered

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST CASE*** | | | | |
| **Test Identifier** | *NGEO-WEBC-VTC-0151* | | **Test Title** | *Direct Download when no download manager has been installed* |
| **Description and Objective** | | | | |
| *The design of this test deals with the possibility to control a product direct download when no download manager has been installed.* | | | | |
| **Inputs Specification** | | | | |
| NGEO-WEBC-VTC-0010 has already been fulfilled: the ngeo web client has already been successfully installed and launched.  NGEO-WEBC-VTC-0040 has already been performed: a search has been done and search results are displayed in a table. | | | | |
| **Outputs Specification** | | | | |
| None | | | | |
| **Environmental needs** | | | | |
| Same needs than *NGEO-WEBC-VTC-0010.*  No download manager installed. | | | | |
| **Constraints** | | | | |
|  | | | | |
| **Dependencies** | | | | |
| *NGEO-WEBC-VTC-0010*  *NGEO-WEBC-VTC-0040* | | | | |
| **Pass/Fail Criteria** | | | | |
| *NGEO-WEBC-PFC-0151* | | A product is downloaded directly with the browser. | | |

### NGEO-WEBC-VTC-0160: Advanced Search Criteria

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST CASE*** | | | | |
| **Test Identifier** | *NGEO-WEBC-VTC-0160* | | **Test Title** | *Advanced Search Criteria* |
| **Description and Objective** | | | | |
| *The design of this test deals with :*  *the display and values update of search criteria for the current selected dataset.*  *The search criteria inclusion in the open search request* | | | | |
| **Inputs Specification** | | | | |
| NGEO-WEBC-VTC-0010 has already been fulfilled: the ngeo web client has already been successfully installed and launched.  NGEO-WEBC-VTC-0040 has already been performed: a search has been done and search results are displayed in a table. | | | | |
| **Outputs Specification** | | | | |
| None | | | | |
| **Environmental needs** | | | | |
| Same needs than *NGEO-WEBC-VTC-0010.* | | | | |
| **Constraints** | | | | |
|  | | | | |
| **Dependencies** | | | | |
| *NGEO-WEBC-VTC-0010* | | | | |
| **Pass/Fail Criteria** | | | | |
| *NGEO-WEBC-PFC-0160* | | Seach criteria are vizualized | | |
| *NGEO-WEBC-PFC-0161* | | Search criteria selected values can be changed | | |
| *NGEO-WEBC-PFC-0162* | | Selected search criteria are included in the openSearch url | | |

### NGEO-WEBC-VTC-0165: Advanced Search Criteria updated with dataset changes

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST CASE*** | | | | |
| **Test Identifier** | *NGEO-WEBC-VTC-0165* | | **Test Title** | *Advanced Search Criteria updated with dataset changes* |
| **Description and Objective** | | | | |
| *The design of this test deals with the update of search criteria when the selected dataset changes* | | | | |
| **Inputs Specification** | | | | |
| NGEO-WEBC-VTC-0010 has already been fulfilled: the ngeo web client has already been successfully installed and launched. | | | | |
| **Outputs Specification** | | | | |
| None | | | | |
| **Environmental needs** | | | | |
| Same needs than *NGEO-WEBC-VTC-0010.* | | | | |
| **Constraints** | | | | |
|  | | | | |
| **Dependencies** | | | | |
| *NGEO-WEBC-VTC-0010* | | | | |
| **Pass/Fail Criteria** | | | | |
| *NGEO-WEBC-PFC-0165* | | Search criteria changes when the dataset selected changes | | |

### NGEO-WEBC-VTC-0170: Download Options

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST CASE*** | | | | |
| **Test Identifier** | *NGEO-WEBC-VTC-0170* | | **Test Title** | *Download Options* |
| **Description and Objective** | | | | |
| *The display and values update of download options for the current selected dataset.*  *The download options inclusion in the open search request* | | | | |
| **Inputs Specification** | | | | |
| NGEO-WEBC-VTC-0010 has already been fulfilled: the ngeo web client has already been successfully installed and launched. | | | | |
| **Outputs Specification** | | | | |
| None | | | | |
| **Environmental needs** | | | | |
| Same needs than *NGEO-WEBC-VTC-0010.* | | | | |
| **Constraints** | | | | |
|  | | | | |
| **Dependencies** | | | | |
| *NGEO-WEBC-VTC-0010* | | | | |
| **Pass/Fail Criteria** | | | | |
| *NGEO-WEBC-PFC-0170* | | Download options are vizualized | | |
| *NGEO-WEBC-PFC-0171* | | Download options selected values can be changed | | |
| *NGEO-WEBC-PFC-0172* | | Selected download options are included in the openSearch url | | |

### NGEO-WEBC-VTC-0173: Download Options pdate from the results table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST CASE*** | | | | |
| **Test Identifier** | *NGEO-WEBC-VTC-0173* | | **Test Title** | *Download Options Update from the Results Table* |
| **Description and Objective** | | | | |
| *The display and values update of download options for the selected items in the results’table.* | | | | |
| **Inputs Specification** | | | | |
| NGEO-WEBC-VTC-0010 has already been fulfilled: the ngeo web client has already been successfully installed and launched. | | | | |
| **Outputs Specification** | | | | |
| None | | | | |
| **Environmental needs** | | | | |
| Same needs than *NGEO-WEBC-VTC-0010.* | | | | |
| **Constraints** | | | | |
|  | | | | |
| **Dependencies** | | | | |
| *NGEO-WEBC-VTC-0010* | | | | |
| **Pass/Fail Criteria** | | | | |
| *NGEO-WEBC-PFC-0173* | | Download options are vizualized from the results table | | |
| *NGEO-WEBC-PFC-0174* | | Download options selected values can be changed from the results table | | |

### NGEO-WEBC-VTC-0175: Download Options update with the selected Dataset

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST CASE*** | | | | |
| **Test Identifier** | *NGEO-WEBC-VTC-0175* | | **Test Title** | *Download Options update with the selected Dataset* |
| **Description and Objective** | | | | |
| *The design of this test deals with the update of download options when the selected dataset changes* | | | | |
| **Inputs Specification** | | | | |
| NGEO-WEBC-VTC-0010 has already been fulfilled: the ngeo web client has already been successfully installed and launched. | | | | |
| **Outputs Specification** | | | | |
| None | | | | |
| **Environmental needs** | | | | |
| Same needs than *NGEO-WEBC-VTC-0010.* | | | | |
| **Constraints** | | | | |
|  | | | | |
| **Dependencies** | | | | |
| *NGEO-WEBC-VTC-0010* | | | | |
| **Pass/Fail Criteria** | | | | |
| *NGEO-WEBC-PFC-0175* | | Download options changes when the dataset selected changes | | |

### NGEO-WEBC-VTC-0180: Help

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST CASE*** | | | | |
| **Test Identifier** | *NGEO-WEBC-VTC-0180* | | **Test Title** | *Help* |
| **Description and Objective** | | | | |
| *The design of this test deals with acess to online guide.* | | | | |
| **Inputs Specification** | | | | |
| NGEO-WEBC-VTC-0010 has already been fulfilled: the ngeo web client has already been successfully installed and launched. | | | | |
| **Outputs Specification** | | | | |
| None | | | | |
| **Environmental needs** | | | | |
| Same needs than *NGEO-WEBC-VTC-0010.* | | | | |
| **Constraints** | | | | |
|  | | | | |
| **Dependencies** | | | | |
| *NGEO-WEBC-VTC-0010* | | | | |
| **Pass/Fail Criteria** | | | | |
| *NGEO-WEBC-PFC-0180* | | Online guide is displayed and pages are accessible | | |
| *NGEO-WEBC-PFC-0181* | | Context help can be browse from the table of contents | | |
| *NGEO-WEBC-PFC-0185* | | Context help is displayed as tooltip | | |

### NGEO-WEBC-VTC-0190: Import

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST CASE*** | | | | |
| **Test Identifier** | *NGEO-WEBC-VTC-0190* | | **Test Title** | *Import* |
| **Description and Objective** | | | | |
| *The design of this test deals with import of a geographic area.* | | | | |
| **Inputs Specification** | | | | |
| NGEO-WEBC-VTC-0030 has already been fulfilled: a simple search has been formulated | | | | |
| **Outputs Specification** | | | | |
| None | | | | |
| **Environmental needs** | | | | |
| Same needs than *NGEO-WEBC-VTC-0030.*  The files in archive ngEO-WEBC-TestData.zip are needed for the tests. | | | | |
| **Constraints** | | | | |
|  | | | | |
| **Dependencies** | | | | |
| *NGEO-WEBC-VTC-0030* | | | | |
| **Pass/Fail Criteria** | | | | |
| *NGEO-WEBC-PFC-0190* | | The geographical area is displayed for a KML file | | |
| *NGEO-WEBC-PFC-0191* | | The geographical area is displayed for a GeoJSON file | | |
| *NGEO-WEBC-PFC-0192* | | The geographical area is displayed for a GML file | | |
| *NGEO-WEBC-PFC-0195* | | An error message is displayed for file with too many features | | |
| *NGEO-WEBC-PFC-0196* | | An error message is displayed for an invalid file | | |

### NGEO-WEBC-VTC-0200: Search Shared URL

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST CASE*** | | | | |
| **Test Identifier** | *NGEO-WEBC-VTC-0200* | | **Test Title** | *Search Shared URL* |
| **Description and Objective** | | | | |
| *The design of this test deals with search shared url.* | | | | |
| **Inputs Specification** | | | | |
| NGEO-WEBC-VTC-0030 has already been fulfilled: a simple search has been formulated | | | | |
| **Outputs Specification** | | | | |
| None | | | | |
| **Environmental needs** | | | | |
| Same needs than *NGEO-WEBC-VTC-0030.* | | | | |
| **Constraints** | | | | |
|  | | | | |
| **Dependencies** | | | | |
| *NGEO-WEBC-VTC-0030* | | | | |
| **Pass/Fail Criteria** | | | | |
| *NGEO-WEBC-PFC-0200* | | The user client is opened in the new browser window with the search widget opened. | | |
| *NGEO-WEBC-PFC-0201* | | The date criteria are restored | | |
| *NGEO-WEBC-PFC-0202* | | The area criteria are restored | | |
| *NGEO-WEBC-PFC-0203* | | The advanced search criteria are restored | | |
| *NGEO-WEBC-PFC-0204* | | The download options are restored | | |

### NGEO-WEBC-VTC-0210: Data-driven Standing Odrer Shared URL

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST CASE*** | | | | |
| **Test Identifier** | *NGEO-WEBC-VTC-0210* | | **Test Title** | *Data-driven Standing Order Shared URL* |
| **Description and Objective** | | | | |
| *The design of this test deals with checking that data-driven standing order url can be shared.* | | | | |
| **Inputs Specification** | | | | |
| NGEO-WEBC-VTC-0030 has already been fulfilled: a simple search has been formulated | | | | |
| **Outputs Specification** | | | | |
| None | | | | |
| **Environmental needs** | | | | |
| Same needs than *NGEO-WEBC-VTC-0030.* | | | | |
| **Constraints** | | | | |
|  | | | | |
| **Dependencies** | | | | |
| *NGEO-WEBC-VTC-0030* | | | | |
| **Pass/Fail Criteria** | | | | |
| *NGEO-WEBC-PFC-0210* | | The user client is opened in the new browser window with the standing order widget opened. | | |
| *NGEO-WEBC-PFC-0211* | | The standing order data-driven parameters are restored (start date, end date and Data-driven check box). | | |

### NGEO-WEBC-VTC-0215: Time-driven Standing Odrer Shared URL

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST CASE*** | | | | |
| **Test Identifier** | *NGEO-WEBC-VTC-0215* | | **Test Title** | *Time-driven Standing Order Shared URL* |
| **Description and Objective** | | | | |
| *The design of this test deals with checking that the time-driven standing order url can be shared.* | | | | |
| **Inputs Specification** | | | | |
| NGEO-WEBC-VTC-0030 has already been fulfilled: a simple search has been formulated | | | | |
| **Outputs Specification** | | | | |
| None | | | | |
| **Environmental needs** | | | | |
| Same needs than *NGEO-WEBC-VTC-0030.* | | | | |
| **Constraints** | | | | |
|  | | | | |
| **Dependencies** | | | | |
| *NGEO-WEBC-VTC-0030* | | | | |
| **Pass/Fail Criteria** | | | | |
| *NGEO-WEBC-PFC-0210* | | The user client is opened in the new browser window with the standing order widget opened. | | |

### NGEO-WEBC-VTC-0220: Zone of interest: draw

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST CASE*** | | | | |
| **Test Identifier** | *NGEO-WEBC-VTC-0220* | | **Test Title** | *Zone of interest : draw* |
| **Description and Objective** | | | | |
| *The design of this test deals with the drawing on the map of a rectangle/polygon to define the zone of interest.* | | | | |
| **Inputs Specification** | | | | |
| NGEO-WEBC-VTC-0030 has already been fulfilled: a simple search has been formulated | | | | |
| **Outputs Specification** | | | | |
| None | | | | |
| **Environmental needs** | | | | |
| Same needs than *NGEO-WEBC-VTC-0030.* | | | | |
| **Constraints** | | | | |
|  | | | | |
| **Dependencies** | | | | |
| *NGEO-WEBC-VTC-0030* | | | | |
| **Pass/Fail Criteria** | | | | |
| *NGEO-WEBC-PFC-0220* | | A rectangle is drawn | | |
| *NGEO-WEBC-PFC-0221* | | A polygon is drawn | | |

### NGEO-WEBC-VTC-0224: Zone of interest: gazetteer

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST CASE*** | | | | |
| **Test Identifier** | *NGEO-WEBC-VTC-0224* | | **Test Title** | *Zone of interest: gazetteer* |
| **Description and Objective** | | | | |
| *The design of this test deals with the use of a gazetteer to define the zone of interest.* | | | | |
| **Inputs Specification** | | | | |
| NGEO-WEBC-VTC-0030 has already been fulfilled: a simple search has been formulated | | | | |
| **Outputs Specification** | | | | |
| None | | | | |
| **Environmental needs** | | | | |
| Same needs than *NGEO-WEBC-VTC-0030.* | | | | |
| **Constraints** | | | | |
|  | | | | |
| **Dependencies** | | | | |
| *NGEO-WEBC-VTC-0030* | | | | |
| **Pass/Fail Criteria** | | | | |
| *NGEO-WEBC-PFC-0224* | | A region is used from the gazetteer as zone of interest. | | |
| *NGEO-WEBC-PFC-0225* | | An invalid location is given to the gazetteer. | | |

### NGEO-WEBC-VTC-0228: Zone of interest: Manual polygon

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST CASE*** | | | | |
| **Test Identifier** | *NGEO-WEBC-VTC-0228* | | **Test Title** | *Zone of interest: Manual polygon* |
| **Description and Objective** | | | | |
| *The design of this test deals with entering manually the polygon coordinates.* | | | | |
| **Inputs Specification** | | | | |
| NGEO-WEBC-VTC-0030 has already been fulfilled: a simple search has been formulated | | | | |
| **Outputs Specification** | | | | |
| None | | | | |
| **Environmental needs** | | | | |
| Same needs than *NGEO-WEBC-VTC-0030.* | | | | |
| **Constraints** | | | | |
|  | | | | |
| **Dependencies** | | | | |
| *NGEO-WEBC-VTC-0030* | | | | |
| **Pass/Fail Criteria** | | | | |
| *NGEO-WEBC-PFC-0228* | | A manual polygon is used as zone of interest. | | |

### NGEO-WEBC-VTC-0230: Export

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST CASE*** | | | | |
| **Test Identifier** | *NGEO-WEBC-VTC-0230* | | **Test Title** | *Export* |
| **Description and Objective** | | | | |
| *The design of this test deals with export of KML and other shape formats for products.* | | | | |
| **Inputs Specification** | | | | |
| NGEO-WEBC-VTC-0040 has already been fulfilled: a simple search has been formulated and results are displayed in a table. | | | | |
| **Outputs Specification** | | | | |
| None | | | | |
| **Environmental needs** | | | | |
| Same needs than *NGEO-WEBC-VTC-0040.* | | | | |
| **Constraints** | | | | |
|  | | | | |
| **Dependencies** | | | | |
| *NGEO-WEBC-VTC-0040* | | | | |
| **Pass/Fail Criteria** | | | | |
| *NGEO-WEBC-PFC-0230* | | Products are exported as KML. | | |

### NGEO-WEBC-VTC-0240: Time Slider Display

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST CASE*** | | | | |
| **Test Identifier** | *NGEO-WEBC-VTC-0240* | | **Test Title** | *Time Slider Display* |
| **Description and Objective** | | | | |
| *The design of this test deals with the display of the time slider.* | | | | |
| **Inputs Specification** | | | | |
| NGEO-WEBC-VTC-0020 has already been fulfilled: a dataset has been selected. | | | | |
| **Outputs Specification** | | | | |
| None | | | | |
| **Environmental needs** | | | | |
| Same needs than *NGEO-WEBC-VTC-0020.* | | | | |
| **Constraints** | | | | |
|  | | | | |
| **Dependencies** | | | | |
| *NGEO-WEBC-VTC-0020* | | | | |
| **Pass/Fail Criteria** | | | | |
| *NGEO-WEBC-PFC-0240* | | The time slider is displayed | | |
| *NGEO-WEBC-PFC-0241* | | The time slider is removed | | |

### NGEO-WEBC-VTC-0243: Time Slider Depends on Dataset stop date

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST CASE*** | | | | |
| **Test Identifier** | *NGEO-WEBC-VTC-0243* | | **Test Title** | *Time Slider Depends on dataset stop date* |
| **Description and Objective** | | | | |
| *The design of this test deals with thedependency between the time slider stop date and the selected dataset.* | | | | |
| **Inputs Specification** | | | | |
| NGEO-WEBC-VTC-0020 has already been fulfilled: a dataset has been selected. | | | | |
| **Outputs Specification** | | | | |
| None | | | | |
| **Environmental needs** | | | | |
| Same needs than *NGEO-WEBC-VTC-0020.* | | | | |
| **Constraints** | | | | |
|  | | | | |
| **Dependencies** | | | | |
| *NGEO-WEBC-VTC-0020* | | | | |
| **Pass/Fail Criteria** | | | | |
| *NGEO-WEBC-PFC-0243* | | The time slider end range depends on the dataset stop date | | |

### NGEO-WEBC-VTC-0245: Search with Time Slider

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST CASE*** | | | | |
| **Test Identifier** | *NGEO-WEBC-VTC-0245* | | **Test Title** | *Search with Time Slider* |
| **Description and Objective** | | | | |
| *The design of this test deals with making a search with the time slider.* | | | | |
| **Inputs Specification** | | | | |
| NGEO-WEBC-VTC-0020 has already been fulfilled: a dataset has been selected. | | | | |
| **Outputs Specification** | | | | |
| None | | | | |
| **Environmental needs** | | | | |
| Same needs than *NGEO-WEBC-VTC-0020.* | | | | |
| **Constraints** | | | | |
|  | | | | |
| **Dependencies** | | | | |
| *NGEO-WEBC-VTC-0020* | | | | |
| **Pass/Fail Criteria** | | | | |
| *NGEO-WEBC-PFC-0245* | | Search with bar moving | | |
| *NGEO-WEBC-PFC-0246* | | Search with right handle moving | | |
| *NGEO-WEBC-PFC-0247* | | Search with left handle moving | | |
| *NGEO-WEBC-PFC-0248* | | Search with right arrow clicking | | |
| *NGEO-WEBC-PFC-0249* | | Search with left arrow clicking | | |

### NGEO-WEBC-VTC-0250: User Preferences

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST CASE*** | | | | |
| **Test Identifier** | *NGEO-WEBC-VTC-0250* | | **Test Title** | *User Preferences* |
| **Description and Objective** | | | | |
| *The design of this test deals with the storage of the user preferences.* | | | | |
| **Inputs Specification** | | | | |
| NGEO-WEBC-VTC-0010 has already been fulfilled. | | | | |
| **Outputs Specification** | | | | |
| None | | | | |
| **Environmental needs** | | | | |
| Same needs than *NGEO-WEBC-VTC-0010.* | | | | |
| **Constraints** | | | | |
| The user preferences are not cross-browser compatible. | | | | |
| **Dependencies** | | | | |
| *NGEO-WEBC-VTC-0010* | | | | |
| **Pass/Fail Criteria** | | | | |
| *NGEO-WEBC-PFC-0250* | | The selected dataset is stored in the preferences. | | |
| *NGEO-WEBC-PFC-0251* | | The selected background layer is stored in the preferences. | | |
| *NGEO-WEBC-PFC-0252* | | The user preferences are loaded when the application is relaunched. | | |

### NGEO-WEBC-VTC-0260: Inquiries

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST CASE*** | | | | |
| **Test Identifier** | *NGEO-WEBC-VTC-0260* | | **Test Title** | *Inquiries* |
| **Description and Objective** | | | | |
| *The design of this test deals with the support of inquiries.* | | | | |
| **Inputs Specification** | | | | |
| NGEO-WEBC-VTC-0010 has already been fulfilled. | | | | |
| **Outputs Specification** | | | | |
| None | | | | |
| **Environmental needs** | | | | |
| Same needs than *NGEO-WEBC-VTC-0010.* | | | | |
| **Constraints** | | | | |
|  | | | | |
| **Dependencies** | | | | |
| *NGEO-WEBC-VTC-0010* | | | | |
| **Pass/Fail Criteria** | | | | |
| *NGEO-WEBC-PFC-0260* | | The user can select the inquiry type | | |
| *NGEO-WEBC-PFC-0261* | | The user can enter the inquiry message | | |
| *NGEO-WEBC-PFC-0262* | | The user can submit the inquiry. | | |

## Software Validation Test Procedures

### General

This section provides the Test Procedures aiming to validate the ngEO Web Client sub-system. For the identification of the Test Procedures the following naming convention shall apply:

NGEO-WEBC-VTP<TP\_nnnn> : <Title>

* <TP\_nnnn>: 4 digits number (generally having a stepping interval of 10)
* <Title> Title of the Test Procedure

### NGEO-WEBC-VTP-0010: Installation of Web Client

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST PROCEDURE*** | | | | | | |
| **Test Identifier** | | *NGEO-WEBC-VTP-0010* | **Test Title** | | *Installation of Web Client* | |
| **Test Procedure Objective** | | | | | | |
| This test procedure implements the installation part for the following test case NGEO-WEBC-VTC-0010: Installation of Web Client and home page check. | | | | | | |
| **Script** | | | | | | |
| None | | | | | | |
| **Step** | **Action** | | | **Expected output** | | **Pass/Fail Criteria Id** |
| *Step-10* | See IOM procedure ([AD.3]) to install the Web Client and the Web Client test server | | |  | |  |
| *Step-20* | See IOM procedure ([AD.3]) to start the the Web Client test server | | |  | | *NGEO-WEBC-PFC-0010* |

### NGEO-WEBC-VTP-0015: Home page check

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST PROCEDURE*** | | | | | | |
| **Test Identifier** | | *NGEO-WEBC-VTP-0010* | **Test Title** | | *Home page check* | |
| **Test Procedure Objective** | | | | | | |
| This test procedure implements the home page for the following test case NGEO-WEBC-VTC-0010: Installation of Web Client and home page check. | | | | | | |
| **Script** | | | | | | |
| None | | | | | | |
| **Step** | **Action** | | | **Expected output** | | **Pass/Fail Criteria Id** |
| *Step-10* | Load the web application in the browser | | | Check loading takes less than 3 seconds | | *NGEO-WEBC-PFC-0015* |
| *Step-20* | Click on the Datasets button in the toolbar and select a dataset to activate the search button. | | | The datasets widget is opened and the search button is activated. | | *NGEO-WEBC-PFC-0016* |
| *Step-30* | Click on the search button in the toolbar to open the search widget | | | A widget should open. | | *NGEO-WEBC-PFC-0016* |
| *Step 40* | Click on the My Account menu | | | A My Account page should open | | *NGEO-WEBC-PFC-0016* |
| *Step-50* | Check the background is a globe map centred at (0,0) | | |  | | *NGEO-WEBC-PFC-0017* |

### NGEO-WEBC-VTP-0020: Dataset selection

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST PROCEDURE*** | | | | | | |
| **Test Identifier** | | *NGEO-WEBC-VTP-0020* | **Test Title** | | *Dataset selection on the Web Client* | |
| **Test Procedure Objective** | | | | | | |
| This test procedure implements the following test case NGEO-WEBC-VTC-0020: Dataset selection on the Web Client | | | | | | |
| **Script** | | | | | | |
| None | | | | | | |
| **Step** | **Action** | | | **Expected output** | | **Pass/Fail Criteria Id** |
| *Step-10* | On the toolbar, click on the “Datasets” button icon | | | The datasets widget is opened and the datasets available are displayed in a list. | |  |
| *Step-20* | Click on ND\_OPT\_1 dataset | | | The ND\_OPT\_1 dataset is selected | |  |
| *Step-30* | Check the selected dataset is shown as text | | | The selected dataset is shown in the bottom left corner. | | *NGEO-WEBC-PFC-0020* |

### NGEO-WEBC-VTP-0030: Simple Search Formulation

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST PROCEDURE*** | | | | | | |
| **Test Identifier** | | *NGEO-WEBC-VTP-0030* | **Test Title** | | *Simple Search Formulation* | |
|  | | | | | | |
| This test procedure implements the following test case NGEO-WEBC-VTC-0030: Simple Search Formulation | | | | | | |
| **Script** | | | | | | |
| None | | | | | | |
| **Step** | **Action** | | | **Expected output** | | **Pass/Fail Criteria Id** |
| *Step-10* | Repeat Steps from NGEO-WEBC-VTP-0020 | | |  | |  |
| *Step-20* | Move to a location enclosing South of England and north of France on the map, using zoom and/or mouse move | | | The chosen location is displayed. | |  |
| *Step-30* | On the toolbar, click on the “Search” button icon | | | The search widget is opened. | |  |
| *Step-40* | Set the start date to 2010-05-01 and end date to 2011-09-05 using the calendar widget | | | The chosen dates are displayed. | |  |
| *Step-50* | Click on the Area tab | | | The area bounding box is actually the current map extent. | | *NGEO-WEBC-PFC-0030* |
| *Step-60* | Unselect the Use map extent checkbox | | | The input to enter the bounding box is enabled | |  |
| *Step-70* | Enter the following coordinates in the input :  West : -180  South:-90  East:180  North:90 | | |  | |  |

### NGEO-WEBC-VTP-0040: Search results in a table

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| --- | --- | --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST PROCEDURE*** | | | | | | |
| **Test Identifier** | | *NGEO-WEBC-VTP-0040* | **Test Title** | | *Search Results in a Table* | |
|  | | | | | | |
| This test procedure implements the following test case NGEO-WEBC-VTC-0040: Search Results in a Table. | | | | | | |
| **Script** | | | | | | |
| None | | | | | | |
| **Step** | **Action** | | | **Expected output** | | **Pass/Fail Criteria Id** |
| *Step-10* | Repeat Steps from NGEO-WEBC-VTP-0030 | | | The search widget is opened. | | *NGEO-WEBC-PFC-0030* |
| *Step-20* | Press the Submit Search button | | | Footprints appear on the map. A message “100 products received” appears on the bottom right. | |  |
| *Step-30* | On the toolbar, click on the “Table view” button icon | | | A widget should open with results presented in a table with the message “Showing 1 to 5 of 100 entries” | | *NGEO-WEBC-PFC-0040* |
| *Step-40* | Press the ‘next’ button of the table | | | New results should be displayed, page label should be updated wit the message “  Showing 6 to 10 of 100 entries” | | *NGEO-WEBC-PFC-0041* |

### NGEO-WEBC-VTP-0050: Search results in the map

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST PROCEDURE*** | | | | | | |
| **Test Identifier** | | *NGEO-WEBC-VTP-0050* | **Test Title** | | *Search Results on the map* | |
|  | | | | | | |
| This test procedure implements the following test case NGEO-WEBC-VTC-0050: Search Results on the Map. | | | | | | |
| **Script** | | | | | | |
| None | | | | | | |
| **Step** | **Action** | | | **Expected output** | | **Pass/Fail Criteria Id** |
| *Step-10* | Repeat Steps from NGEO-WEBC-VTP-0030 | | | The search widget is opened. | |  |
| *Step-20* | Press the Submit Search button | | | Footprints appear on the map. | | *NGEO-WEBC-PFC-0050* |

### NGEO-WEBC-VTP-0060: Browse visualization

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST PROCEDURE*** | | | | | | |
| **Test Identifier** | | *NGEO-WEBC-VTP-0060* | **Test Title** | | *Browse Visualization* | |
|  | | | | | | |
| This test procedure implements the following test case NGEO-WEBC-VTC-0060: Browse Visualization. | | | | | | |
| **Script** | | | | | | |
| None | | | | | | |
| **Step** | **Action** | | | **Expected output** | | **Pass/Fail Criteria Id** |
| *Step-10* | On the toolbar, click on the “Datasets” button icon | | | The datasets widget is opened and the datasets available are displayed in a list. | |  |
| *Step-20* | Click on ND\_SAR\_1 dataset | | | The ND\_SAR\_1 dataset is selected | |  |
| *Step-30* | Move to a location enclosing South of England and north of France on the map, using zoom and/or mouse move | | | The chosen location is displayed. | |  |
| *Step-40* | On the toolbar, click on the “Search” button icon | | | The search widget is opened. | |  |
| *Step-50* | Press the Submit Search button | | | Footprints appear on the map. | |  |
| *Step-60* | Click on a footprint in the map. | | | The browse layer displayed on the map at the location of the product footprint. | | *NGEO-WEBC-PFC-0060* |
| *Step-70* | Click on “Background” to change the map background. | | | The browse layer should be displayed on the map as above. | | *NGEO-WEBC-PFC-0060* |
| *Step-80* | Click on “2D/3D” to switch the map mode. | | | The browse layer shall also be displayed in the new mode at the same location. | | *NGEO-WEBC-PFC-0060* |

### NGEO-WEBC-VTP-0070: Filtered dataset selection

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| --- | --- | --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST PROCEDURE*** | | | | | | |
| **Test Identifier** | | *NGEO-WEBC-VTP-0070* | **Test Title** | | *Filtered Dataset Selection* | |
|  | | | | | | |
| This test procedure implements the following test case NGEO-WEBC-VTC-0070: Filtered Dataset Selection. | | | | | | |
| **Script** | | | | | | |
| None | | | | | | |
| **Step** | **Action** | | | **Expected output** | | **Pass/Fail Criteria Id** |
| *Step-10* | Launch the web client using the url : http://localhost:3000/client | | | The web client page is displayed. | |  |
| *Step-20* | On the toolbar, click on the “Datasets” button icon | | | The datasets widget is opened and the datasets available are displayed in a list. | |  |
| *Step-30* | Click on one of the datasets displayed | | | The chosen dataset is selected | |  |
| *Step-40* | Use the “Mission” menu to select a mission | | | The dataset displayed are filtered according to the chosen missing. | | *NGEO-WEBC-PFC-0070* |
| *Step-50* | Use the “Sensor” menu to select a sensor | | | The dataset displayed are filtered according to the chosen sensor. | | *NGEO-WEBC-PFC-0071* |
| *Step-60* | Use the “Keyword” menu to select a keyword | | | The dataset displayed are filtered according to the chosen keyword. | | *NGEO-WEBC-PFC-0072* |
| *Step-70* | Enter a text in the search text field | | | The datasets having this text in their ids are displayed. | | *NGEO-WEBC-PFC-0073* |

### NGEO-WEBC-VTP-0080: Searching with a url

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST PROCEDURE*** | | | | | | |
| **Test Identifier** | | *NGEO-WEBC-VTP-0080* | **Test Title** | | *Searching with a url* | |
|  | | | | | | |
| This test procedure implements the following test case NGEO-WEBC-VTC-0080: Searching with a url. | | | | | | |
| **Script** | | | | | | |
| None | | | | | | |
| **Step** | **Action** | | | **Expected output** | | **Pass/Fail Criteria Id** |
| *Step-10* | Repeat Steps from NGEO-WEBC-VTP-0030 | | | The search widget is opened. | |  |
| *Step-20* | Click on the “Search url” button | | | A popup is spawn displaying the search url | |  |
| *Step-30* | Select the URL and Copy it | | |  | |  |
| *Step-40* | Paste the search URL in another browser | | | The search results are returned | |  |
| *Step-50* | Check that the result is returned in GeoJSON format | | |  | | *NGEO-WEBC-PFC-0080* |
| *Step-60* | Repeat steps Step-10 and Step-20 | | | A popup is spawn displaying the search url, | |  |
| *Step-70* | Enter directly a preformatted openSearch url and close the popu up | | |  | |  |
| *Step-80* | Click on the ‘Submit Search’ button | | | The search is launched with the entred openSearch URL | | *NGEO-WEBC-PFC-0081* |

### NGEO-WEBC-VTP-0090: Map background

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| --- | --- | --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST PROCEDURE*** | | | | | | |
| **Test Identifier** | | *NGEO-WEBC-VTP-0090* | **Test Title** | | *Map background* | |
|  | | | | | | |
| This test procedure implements the following test case NGEO-WEBC-VTC-0090: Map background. | | | | | | |
| **Script** | | | | | | |
| None | | | | | | |
| **Step** | **Action** | | | **Expected output** | | **Pass/Fail Criteria Id** |
| *Step-10* | Launch the web client using the url : http://localhost:3000/client | | | The web client page is displayed. | |  |
| *Step-20* | On the toolbar, click on the “Background” button icon | | | The background widget is opened and a list of available background is displayed. | |  |
| *Step-30* | Click on one of the layers displayed | | | The background is changed | | *NGEO-WEBC-PFC-0090* |
| *Step-40* | Click on “Switch 2D/3D” button | | | The map is changed to 3D | |  |
| *Step-50* | Repeat Step-20 and Step-30 in 3D | | | Background is changed | | *NGEO-WEBC-PFC-0090* |

### NGEO-WEBC-VTP-0095: Map data layers

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST PROCEDURE*** | | | | | | |
| **Test Identifier** | | *NGEO-WEBC-VTP-0095* | **Test Title** | | *Map data layers* | |
|  | | | | | | |
| This test procedure implements the following test case NGEO-WEBC-VTC-0095: Map data layers. | | | | | | |
| **Script** | | | | | | |
| None | | | | | | |
| **Step** | **Action** | | | **Expected output** | | **Pass/Fail Criteria Id** |
| *Step-10* | Launch the web client using the url : http://localhost:3000/client | | | The web client page is displayed. | |  |
| *Step-20* | On the toolbar, click on the “Layers” button icon | | | The layers widget is opened and a list of available layers is displayed. | |  |
| *Step-30* | Check one of the layers | | | Layer is displayed | | *NGEO-WEBC-PFC-0095* |
| *Step-40* | Uncheck the “Result Footprints” layers | | | Footprints are no longer displayed. | |  |
| *Step-50* | Click on “Switch 2D/3D” button | | | The map is changed to 3D | |  |
| *Step-60* | Repeat Step-20 and Step-40 in 3D | | | Layer is displayed | | *NGEO-WEBC-PFC-0095* |

### NGEO-WEBC-VTP-0100: Map navigation and selection

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| --- | --- | --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST PROCEDURE*** | | | | | | |
| **Test Identifier** | | *NGEO-WEBC-VTP-0100* | **Test Title** | | *Map navigation and selection* | |
|  | | | | | | |
| This test procedure implements the following test case NGEO-WEBC-VTC-0100: Map navigation and selection | | | | | | |
| **Script** | | | | | | |
| None | | | | | | |
| **Step** | **Action** | | | **Expected output** | | **Pass/Fail Criteria Id** |
| *Step-10* | Repeat Steps from NGEO-WEBC-VTP-0050 | | | The web client page is displayed and results are displayed on the map. | |  |
| *Step-20* | Double-click on a location in the map to zoom onto it | | | The map is zoomed to clicked location. | | *NGEO-WEBC-PFC-0100* |
| *Step-30* | Press the mouse left button and drag on the map. | | | The map is moved. | | *NGEO-WEBC-PFC-0100* |
| *Step-40* | Use the wheel mouse button to zoom | | | The map is zoomed. | | *NGEO-WEBC-PFC-0100* |
| *Step-50* | Click with left mouse button inside a product to select it. | | | A popup appears, the product color is changed | | *NGEO-WEBC-PFC-0105* |
| *Step-60* | Click with left mouse button inside a “stack” of products to select them. | | | A popup appears, all product colors are changed | | *NGEO-WEBC-PFC-0107* |
| *Step-70* | Click again to select the top items | | | The popup changes and the product colours are updated. | | *NGEO-WEBC-PFC-0107* |
| *Step-80* | Click on “Switch 2D/3D” button | | | The map is changed to 3D | |  |
| *Step-90* | Repeat Step-20 and Step-70 in 3D | | |  | |  |
| *Step-100* | Click with middle mouse button to tilt the view. | | | The view is tilted. | | *NGEO-WEBC-PFC-0100* |

### NGEO-WEBC-VTP-0110: Simple Data Access Request

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| ***NGEO VALIDATION TEST PROCEDURE*** | | | | | | |
| **Test Identifier** | | *NGEO-WEBC-VTP-0110* | **Test Title** | | *Simple data access request* | |
|  | | | | | | |
| This test procedure implements the following test case NGEO-WEBC-VTC-0110: Simple data access request | | | | | | |
| **Script** | | | | | | |
| None | | | | | | |
| **Step** | **Action** | | | **Expected output** | | **Pass/Fail Criteria Id** |
| *Step-10* | Repeat Steps from NGEO-WEBC-VTP-0040 | | | The search results table is displayed. | |  |
| *Step-20* | On the search results table widget, check the check boxes of the first 5 products for which the data access request is going to be created. | | | The products for which the data access request is going to be created are checked. | |  |
| *Step-30* | Click on “Retrieve Product” button | | | The download manager‘s widget is displayed, listing the available download managers.  The message “SelectedProducts : 5” is displayed | | *NGEO-WEBC-PFC-0110* |
| *Step-40* | Click on the collapsible element to see how many items have been included in the data access request since only products having a url in their metadata are taken into account. | | | The message ” 4 products were not included in the request since they do not have a url.”is displayed. | |  |
| *Step-50* | Select a download manager from the list by clicking on the radio button next to the download manager name. | | | The chosen download manager is selected. | |  |
| *Step-60* | Click on the “Validate Your Request” button in order to post a data access request to the server for validation. | | | The download manager list is disabled.  The message “Request Acknowledged” is displayed underneath the “Validate Your Request” button.  The expected size of the download is also displayed.  This message is followed by an additional message sent by the server if there is any. | | *NGEO-WEBC-PFC-0111* |
| *Step-70* | Click on the “Confirm Your Request” button in order to confirm the data access request creation. | | | The message “Request in Progress…” is displayed underneath the “Validate Your Request” button.  If the server has sent a message, it is displayed after the above message.  The “Validate Your Request” button is disabled. | | *NGEO-WEBC-PFC-0112* |
| *Step-80* | Click on the close button of download manager’s widget to return back to the results table. | | | The result’s table is displayed. | | *NGEO-WEBC-PFC-0113* |

### NGEO-WEBC-VTP-0115: Simple Data Access Request: No Download Manager Registred

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| --- | --- | --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST PROCEDURE*** | | | | | | |
| **Test Identifier** | | *NGEO-WEBC-VTP-0115* | **Test Title** | | *Simple data access request: no download manager already registered* | |
|  | | | | | | |
| This test procedure implements the following test case NGEO-WEBC-VTC-0110: Simple data access request | | | | | | |
| **Script** | | | | | | |
| None | | | | | | |
| **Step** | **Action** | | | **Expected output** | | **Pass/Fail Criteria Id** |
| *Step-10* | Repeat Steps from NGEO-WEBC-VTP-0040 | | | The search results table is displayed. | |  |
| *Step-20* | On the search results table widget, check the check boxes of the products for which the data access request is going to be created. | | | The products for which the data access request is going to be created are checked. | |  |
| *Step-30* | Click on “Retrieve Product” button | | | The download manager‘s widget displays no download manager but a link to install a new one. | | *NGEO-WEBC-PFC-0115* |
| *Step-40* | Click on the proposed link | | | The user is redirected to the page from which to install the download manager. | |  |
| *Step-50* | Install the download manager | | | The download manager is successfully installed | |  |
| *Step-60* | Do the NGEO-WEBC-VTP-0110 nominal test case steps. | | |  | | *NGEO-WEBC-PFC-0110*  *NGEO-WEBC-PFC-0111*  *NGEO-WEBC-PFC-0112*  *NGEO-WEBC-PFC-0113* |

### NGEO-WEBC-VTP-0120: Standing Order Data Access Request: Data Driven Request

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| ***NGEO VALIDATION TEST PROCEDURE*** | | | | | | |
| **Test Identifier** | | *NGEO-WEBC-VTP-0120* | **Test Title** | | *Standing Order data access request: data driven request* | |
|  | | | | | | |
| This test procedure implements the following test case NGEO-WEBC-VTC-0120: Standing Order data access request | | | | | | |
| **Script** | | | | | | |
| None | | | | | | |
| **Step** | **Action** | | | **Expected output** | | **Pass/Fail Criteria Id** |
| *Step-10* | Repeat Steps from NGEO-WEBC-VTP-0030 | | | The search criteria have been chosen | |  |
| *Step-20* | On the search criteria panel click on the “Standing Order” button | | | A popup widget is spawn with :   * start and stop dates and time filled in with the current date * two radio buttons to choose the standing order type, either time-driven or data–driven. * The openSearch url text field already filled with the openSearch url generated according to the chosen search criteria: the user can enter a new one.   The data-driven type is already checked. | | *NGEO-WEBC-PFC-0120* |
| *Step-30* | Click on “Create Request” button | | | The download managers list is displayed in order to choose the download manager. The first one in the list is already checked. | | *NGEO-WEBC-PFC-0121* |
| *Step-40* | Click on “Validate Your Request” button | | | The validation request is sent to the server and the server response is received. The message “Request Acknowledged” is displayed underneath the download managers list. Followed by the server response message. For this test case, the message is” Standing order data Access Request validated”. | | *NGEO-WEBC-PFC-0122* |
| *Step-50* | Click on “Confirm Your Request” button | | | The confirmation standing order request is sent to the server. The server response is also received and the message “Request in Process…” is displayed followed by the server response : “processing” | | *NGEO-WEBC-PFC-0123* |

### NGEO-WEBC-VTP-0125: Standing Order Data Access Request: Time Driven Request

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| --- | --- | --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST PROCEDURE*** | | | | | | |
| **Test Identifier** | | *NGEO-WEBC-VTP-0125* | **Test Title** | | *Standing Order data access request: Time-driven request* | |
|  | | | | | | |
| This test procedure implements the following test case NGEO-WEBC-VTC-0120: Standing Order data access request | | | | | | |
| **Script** | | | | | | |
| None | | | | | | |
| **Step** | **Action** | | | **Expected output** | | **Pass/Fail Criteria Id** |
| *Step-10* | Repeat Steps from NGEO-WEBC-VTP-0030 | | | The search criteria have been chosen | |  |
| *Step-20* | On the search criteria panel click on the “Standing Order” button | | | A popup widget is spawn with :   * start and stop dates and time filled in with the current date * two radio buttons to choose the standing order type, either time-driven or data–driven. * The openSearch url text field already filled with the openSearch url generated according to the chosen search criteria : the user is able to enter a new one.   The data-driven type is already checked. | |  |
| *Step-30* | Click on the radio button “Time-driven Order” | | | The form of time-driven parameters is displayed with a widget for the shifting period and for applying shifting on search filter time period. | | *NGEO-WEBC-PFC-0125* |
| *Step-40* | Enter 15 in the number of days required in the Shifting period widget | | |  | |  |
| *Step-50* | Check the checkbox “Apply shifting to search filter time period” | | |  | |  |
| *Step-60* | Click on “Create Request” button | | | The download managers list is displayed in order to choose the download manager. The first one in the list is already checked. | | *NGEO-WEBC-PFC-0121* |
| *Step-70* | Click on “Validate Your Request” button | | | The validation request is sent to the server and the server response is received. The message “Request Acknowledged” is displayed underneath the download managers list. Followed by the server response message. For this test case, the message is” Standing order data Access Request validated”. | | *NGEO-WEBC-PFC-0122* |
| *Step-80* | Click on “Confirm Your Request” button | | | The confirmation standing order request is sent to the server. The server response is also received and the message “Request in Process…” is displayed followed by the server response : “processing” | | *NGEO-WEBC-PFC-0123* |

### NGEO-WEBC-VTP-0130: Download Managers Monitoring

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST PROCEDURE*** | | | | | | |
| **Test Identifier** | | *NGEO-WEBC-VTP-0130* | **Test Title** | | *Download Managers Monitoring* | |
|  | | | | | | |
| This test procedure implements the test case NGEO-WEBC-VTC-0130: Download Managers Monitoring | | | | | | |
| **Script** | | | | | | |
| None | | | | | | |
| **Step** | **Action** | | | **Expected output** | | **Pass/Fail Criteria Id** |
| *Step-10* | Launch the web client | | | The web client page is displayed. | |  |
| *Step-20* | On the toolbar, click on the “My account” button icon | | | A tabular view is displayed. The default selected tab is the “Download Managers” with a table of registered download managers.  For each download manager, the name, the identifier, the status, the user id, the ip address and the last access dates are displayed.  For an active download manager a circular green icon is displayed in for an inactive download manager a circular red icon is displayed.  A button to install a download manager is displayed. | |  |
| *Step-30* | Click on an active download manager | | | The ‘Enable’ button is disabled and the ‘Disable’ button is enabled. | |  |
| Step-40 | Click on the ‘Stop’ button | | | The message ‘The server has received a stop command” appears. The Stop/ Stop Immediately’ buttons are disabled. | |  |
| Step-50 | Click on an inactive download manager | | | The ‘Stop’ and ‘Stop Immediately’ buttons are enabled. | |  |
| Step-60 | Click on the ‘Stop Immediately’ button | | | The message ‘The server has received a stop immediately command” appears. | | NGEO-WEBC-PFC-0130 |
| Step-70 | Repeat step 50. | | | The message: “Cannot change status: The download manager has just been stopped” appears. | |  |

### NGEO-WEBC-VTP-0131: Download Managers Monitoring When No Download Manager Registered

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| --- | --- | --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST PROCEDURE*** | | | | | | |
| **Test Identifier** | | *NGEO-WEBC-VTP-0131* | **Test Title** | | *Download Managers Monitoring when no download manager has been registered* | |
|  | | | | | | |
| This test procedure implements the test case NGEO-WEBC-VTC-0131: Download Managers Monitoring : No Downlaod Manager Registered | | | | | | |
| **Script** | | | | | | |
| None | | | | | | |
| **Step** | **Action** | | | **Expected output** | | **Pass/Fail Criteria Id** |
| *Step-10* | Launch the web client | | | The web client page is displayed. | |  |
| *Step-20* | On the toolbar, click on the “My account” button icon | | | A tabular view is displayed. The default selected tab is the “Download Managers”.  The view contains:  The message “No download manager has been registered. To install a Download Manager click on the following button: ” and A button “Install Download Manager” | | *NGEO-WEBC-PFC-0131* |
| *Step-30* | Click on the button ‘Install Download Manager’ | | | The installation page of the download manager is displayed. | |  |

### NGEO-WEBC-VTP-0140: Data Access Requests Monitoring

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| --- | --- | --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST PROCEDURE*** | | | | | | |
| **Test Identifier** | | *NGEO-WEBC-VTP-0140* | **Test Title** | | *Data Access Requests Monitoring* | |
|  | | | | | | |
| This test procedure implements the test case NGEO-WEBC-VTC-0140: Data Access Requests Monitoring | | | | | | |
| **Script** | | | | | | |
| None | | | | | | |
| **Step** | **Action** | | | **Expected output** | | **Pass/Fail Criteria Id** |
| *Step-10* | Launch the web client | | | The web client page is displayed. | |  |
| *Step-20* | On the toolbar, click on the “My account” button icon | | | A tabular view is displayed. The default selected tab is the “Download Managers”. | |  |
| *Step-30* | Click on the tab “Data Access Requests” | | | The data access requests monitoring view is displayed. In the left side is displayed the list of download managers which are assigned to data access requests.  In the right side, is displayed the list of submitted data access requests. Each line in the list is a data access request.  The colored icon on the right side does match the status of the data access request.  Processing status is represented by a circular green icon.  Paused status is represented by a circular yellow icon.  Completed status is represented by a circular green icon.  Cancelled status is represented by a circular red icon.  Completed status is represented by a circular maroon icon. | |  |
| *Step-40* | Click on a processing data access request ie a data access request having a circular green icon. | | | The data access request element is expanded showing the details of the data access request.  The button ‘Pause’ allows pausing the request, the button ‘Stop definitively’ allows cancelling the request. Both buttons are enabled. | |  |
| *Step-50* | Click on the ‘Pause’ button | | | The request status is changed to paused, the status icon colour is changed to yellow and the pause button is renamed with ‘Resume’. | |  |
| *Step-60* | Click on the ‘Resume’ button | | | The request status is changed to processing, the status icon colour is changed to green and the pause button is renamed with ‘Pause’. | |  |
| *Step-70* | Click on the ‘Stop definitively’ button | | | The request status is changed to cancelled, the status icon colour is changed to red and the pause /stop definitively buttons are disabled. | | *NGEO-WEBC-PFC-0140* |

### NGEO-WEBC-VTP-0150: Direct Download

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST PROCEDURE*** | | | | | | |
| **Test Identifier** | | *NGEO-WEBC-VTP-0150* | **Test Title** | | *Direct Download* | |
|  | | | | | | |
| This test procedure implements the test case NGEO-WEBC-VTC-0150: Direct Download | | | | | | |
| **Script** | | | | | | |
| None | | | | | | |
| **Step** | **Action** | | | **Expected output** | | **Pass/Fail Criteria Id** |
| *Step-10* | Launch the web client | | | The web client page is displayed. | |  |
| *Step-20* | Perform the steps of WEBC-VTP-0040 | | | Search results are displayed in the table.  In the product column, the underlined identifiers do represent products supporting a direct download. | |  |
| *Step-30* | Click on an underlined product identifier | | | The direct download widget is displayed with two options: ‘Browser download‘ and ‘Download Manager Download’ | |  |
| *Step-40* | Click on ‘Browser Download’ menu item | | | The browser is opened with the url of the clicked product. | |  |
| *Step-50* | Go back to the ngeo home page | | |  | |  |
| *Step-60* | Click on ‘Download Manager Download’ | | | The message ‘Click on the following button to start download’ is displayed’ with the download button | |  |
| *Step-70* | Click on the ‘Download’ button | | | The browser is opened with the url to be accessed, the url ends with ‘.ngeo’ | | *NGEO-WEBC-PFC-0150* |

### NGEO-WEBC-VTP-0151: Direct Download When No Download Manager Registered

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST PROCEDURE*** | | | | | | |
| **Test Identifier** | | *NGEO-WEBC-VTP-0131* | **Test Title** | | *Direct Download when no download manager has been registered* | |
|  | | | | | | |
| This test procedure implements the test case NGEO-WEBC-VTC-0151: Direct Download When No Downlaod Manager Registered | | | | | | |
| **Script** | | | | | | |
| None | | | | | | |
| **Step** | **Action** | | | **Expected output** | | **Pass/Fail Criteria Id** |
| *Step-10* | Launch the web client | | | The web client page is displayed. | |  |
| *Step-20* | Perform the steps of WEBC-VTP-0040 | | | Search results are displayed in the table .  In the product column, the underlined identifiers do represent products supporting a direct download. | |  |
| *Step-30* | Click on an underlined product identifier | | | The direct download widget is displayed with one option: ‘Browser download‘ . | | *NGEO-WEBC-PFC-0151* |
| *Step-40* | Click on ‘Browser Download’ menu item | | | The browser is opened with the url of the clicked product. | |  |

### NGEO-WEBC-VTP-0160: Advanced Search Criteria

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST PROCEDURE*** | | | | | | |
| **Test Identifier** | | *NGEO-WEBC-VTP-0160* | **Test Title** | | *Advanced Search Criteria* | |
|  | | | | | | |
| This test procedure implements the test case NGEO-WEBC-VTC-0160: Advanced Search Criteria | | | | | | |
| **Script** | | | | | | |
| None | | | | | | |
| **Step** | **Action** | | | **Expected output** | | **Pass/Fail Criteria Id** |
| *Step-10* | Launch the web client | | | The web client page is displayed. | |  |
| *Step-20* | Open the "Datasets" widget by clicking on search button in the toolbar | | | The datasets widget is opened and the datasets available are displayed in a list. | |  |
| *Step-30* | Click on one of the datasets | | | The selected dataset is highlighted | |  |
| *Step-40* | On the toolbar, click on the “Search” button icon | | | The search widget is opened. | |  |
| *Step-50* | Click on ‘Advanced’ tab | | | The advanced search criteria related to the selected dataset are displayed by suitable widgets (sliders for ranges, check boxes group for multiple valued criteria, select box for unique selection criterion with multiple possible values) | | *NGEO-WEBC-PFC-0160* |
| *Step-60* | Update the criteria displayed with values from your choice | | | The criteria values changed are now displayed | | *NGEO-WEBC-PFC-0161* |
| *Step-70* | Click on the "Search URL" button | | | The open search url is displayed with all search criteria and the changed values are taken into account | | *NGEO-WEBC-PFC-0162* |

### NGEO-WEBC-VTP-0165: Advanced Search Criteria updated with dataset changes

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST PROCEDURE*** | | | | | | |
| *Test Identifier* | | *NGEO-WEBC-VTP-0165* | *Test Title* | | *Advanced Search Criteria updated with dataset changes* | |
|  | | | | | | |
| This test procedure implements the test case NGEO-WEBC-VTC-0160: Advanced Search Criteria updated with dataset changes | | | | | | |
| **Script** | | | | | | |
| None | | | | | | |
| **Step** | **Action** | | | **Expected output** | | **Pass/Fail Criteria Id** |
| *Step-10* | Perform the steps of WEBC-VTP-0160 | | | The open search url is displayed with all search criteria and the changed values are taken into account | | *NGEO-WEBC-PFC-0160*  *NGEO-WEBC-PFC-0161*  *NGEO-WEBC-PFC-0162* |
| *Step-20* | Open the "Datasets" widget by clicking on search button in the toolbar | | | The datasets widget is opened and the datasets available are displayed in a list. | |  |
| *Step-30* | Click on a dataset different from the previous one. | | | The selected dataset is highlighted | |  |
| *Step-40* | Perform the steps 40 to 70 of WEBC-VTP-0160 and for steps 50 to 70 make sure that the search criteria values set for the first dataset has been reset and that the values of the new dataset are taken into account | | |  | | *NGEO-WEBC-PFC-0165* |

### NGEO-WEBC-VTP-0170: Download options

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST PROCEDURE*** | | | | | | |
| **Test Identifier** | | *NGEO-WEBC-VTP-0170* | **Test Title** | | *Download options* | |
|  | | | | | | |
| This test procedure implements the test case NGEO-WEBC-VTC-0170: Download options | | | | | | |
| **Script** | | | | | | |
| None | | | | | | |
| **Step** | **Action** | | | **Expected output** | | **Pass/Fail Criteria Id** |
| *Step-10* | Launch the web client | | | The web client page is displayed. | |  |
| *Step-20* | Open the "Datasets" widget by clicking on search button in the toolbar | | | The datasets widget is opened and the datasets available are displayed in a list. | |  |
| *Step-30* | Click on ND\_OPT\_1 dataset | | | The selected dataset is highlighted | |  |
| *Step-40* | On the toolbar, click on the “Search” button icon | | | The search widget is opened. | |  |
| *Step-50* | Click on ‘Download Options’ tab.  Check the “Use download options” | | | The Download options related to the selected dataset are displayed by select boxes.  The first check box is not a search criteria but a flag to choose whether to include or not the download options in the search url. | | *NGEO-WEBC-PFC-0170* |
| *Step-60* | Update “Download mode” selection with the “Download continuously” option. | | | The option “Download continuously – Size factor :1” is displayed for “Download mode”. | | *NGEO-WEBC-PFC-0171* |
| *Step-70* | Click on the "Search URL" button | | | The open search url is displayed with all download options. The parameter “downloadMode” is equals to DLcontinously. | | *NGEO-WEBC-PFC-0172* |

### NGEO-WEBC-VTP-0173: Download options update from results table

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST PROCEDURE*** | | | | | | |
| **Test Identifier** | | *NGEO-WEBC-VTP-0173* | **Test Title** | | *Download options Update from Results Table* | |
|  | | | | | | |
| This test procedure implements the test case NGEO-WEBC-VTC-0173: Download options Update from Results’ Table. | | | | | | |
| **Script** | | | | | | |
| None | | | | | | |
| **Step** | **Action** | | | **Expected output** | | **Pass/Fail Criteria Id** |
| *Step-10* | Perform NGEO-WEBC-VTP-0040 steps | | | The search results are displayed in the table | |  |
| *Step-20* | Check an underlined product identifier | | | The product row is checked  And the ‘Download Options’ button underneath the table is enabled | |  |
| *Step-30* | Click on the ‘Download Options’ button | | | A widget is spawn-up displaying the download options by the means of select boxes. | |  |
| *Step-40* | Update “Download mode” selection with the “Download continuously” option | | | The selected values change. | |  |
| *Step-50* | Click on ‘Update Download Options’ button | | | The message “Download options updated” is displayed underneath the button. | | *NGEO-WEBC-PFC-0173* |

### NGEO-WEBC-VTP-0175: Download options update with the selected dataset

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST PROCEDURE*** | | | | | | |
| **Test Identifier** | | *NGEO-WEBC-VTP-0175* | **Test Title** | | *Download options update with the selected dataset* | |
|  | | | | | | |
| This test procedure implements the test case NGEO-WEBC-VTC-0175: Download options update with the selected Dataset | | | | | | |
| **Script** | | | | | | |
| None | | | | | | |
| **Step** | **Action** | | | **Expected output** | | **Pass/Fail Criteria Id** |
| *Step-10* | Perform the steps of WEBC-VTP-0170 | | | The open search url is displayed with all download options and the changed values are taken into account | | *NGEO-WEBC-PFC-0170*  *NGEO-WEBC-PFC-0171*  *NGEO-WEBC-PFC-0172* |
| *Step-20* | Open the "Datasets" widget by clicking on search button in the toolbar | | | The datasets widget is opened and the datasets available are displayed in a list. | |  |
| *Step-30* | Click on dataset ND\_SAR\_1. | | | The selected dataset is highlighted | |  |
| *Step-40* | Perform the steps 40 to 70 of WEBC-VTP-0170 and make sure that the download options values set for the first dataset has been reset and that the values of the new dataset are taken into account | | |  | | *NGEO-WEBC-PFC-0175* |

### NGEO-WEBC-VTP-0180: Help

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST PROCEDURE*** | | | | | | |
| **Test Identifier** | | *NGEO-WEBC-VTP-0180* | **Test Title** | | *Help* | |
|  | | | | | | |
| This test procedure implements the test case NGEO-WEBC-VTC-0180: Help | | | | | | |
| **Script** | | | | | | |
| None | | | | | | |
| **Step** | **Action** | | | **Expected output** | | **Pass/Fail Criteria Id** |
| *Step-10* | Click on the “User Guide” link in the menu bar | | | The user guide should open | | *NGEO-WEBC-PFC-0180* |
| *Step-20* | Browse in the user guide by using the table of contents. Check navigation display the corresponding page | | | Different pages are opened for each chapter in the table of contents | | *NGEO-WEBC-PFC-0181* |
| *Step-30* | Click in “Data services area” link in the menu bar | | | The data services area is opened | |  |
| *Step-40* | Click on the button “Context Help” in the toolbar | | | A tooltip shall appear to indicate next action. | |  |
| *Step-50* | Click on a button in the toolbar | | | A context help shall appear just below the button | | *NGEO-WEBC-PFC-0185* |

### NGEO-WEBC-VTP-0190: Import

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST PROCEDURE*** | | | | | | |
| **Test Identifier** | | *NGEO-WEBC-VTP-0190* | **Test Title** | | *Import* | |
|  | | | | | | |
| This test procedure implements the test case NGEO-WEBC-VTC-0190: Import | | | | | | |
| **Script** | | | | | | |
| None | | | | | | |
| **Step** | **Action** | | | **Expected output** | | **Pass/Fail Criteria Id** |
| *Step-10* | Perform the steps of WEBC-VTP-0030 | | | The search widget is opened, the Area Tab is opened | |  |
| *Step-20* | Clik on the “Import” button | | | The Import GUI is displayed | |  |
| *Step-30* | Drop the file france.kml from test data. | | | The area is displayed in the map.  The message “File sucessfully imported : france.kml” shall appears | | *NGEO-WEBC-PFC-0190* |
| *Step-40* | Drop the file france.geojson from test data. | | | The area is displayed in the map.  The message “File sucessfully imported : france.geojson” shall appears | | *NGEO-WEBC-PFC-0191* |
| *Step-50* | Drop the file france.gml from test data. | | | The area is displayed in the map.  The message “File sucessfully imported : france.gml” shall appears | | *NGEO-WEBC-PFC-0192* |
| *Step-60* | Drop the file europe.json from test data. | | | The message “Failed to import europe.json : file must contain exactly one feature, 102 foundl” shall appears | | *NGEO-WEBC-PFC-0195* |
| *Step-70* | Drop the file invalid.txt from test data. | | | The message “Failed to import invalid.txt : format not supported.” shall appears | | *NGEO-WEBC-PFC-0196* |

### NGEO-WEBC-VTP-0200: Search Shared URL

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST PROCEDURE*** | | | | | | |
| **Test Identifier** | | *NGEO-WEBC-VTP-0200* | **Test Title** | | *Search Shared URL* | |
|  | | | | | | |
| This test procedure implements the test case NGEO-WEBC-VTC-0200: Search Shared URL | | | | | | |
| **Script** | | | | | | |
| None | | | | | | |
| **Step** | **Action** | | | **Expected output** | | **Pass/Fail Criteria Id** |
| *Step-10* | Perform the steps of WEBC-VTP-0020 | | |  | |  |
| *Step-20* | On the toolbar, click on the “Search” button icon | | | The search widget is opened. | |  |
| *Step-30* | Set the start date to 2009-05-01 and end date to 2009-07-01 using the calendar widget | | |  | |  |
| *Step-40* | Click on the “Area” tab | | | The area coordinates fields are displayed | |  |
| *Step-50* | Uncheck “Use map extent”.  Set the area coordinates manually with  West : -20  South: -20  East : 20  North : 20 | | | The area coordinates are displayed | |  |
| *Step-60* | Click on ‘Advanced’ tab | | | The advanced search criteria related to the selected dataset are displayed by suitable widgets (sliders for ranges, check boxes group for multiple valued criteria) | |  |
| *Step-70* | Check “Sentinel-1A” for Satelitte, and “Ascending” for Pass | | |  | |  |
| *Step-80* | Click on ‘Download Options’ tab | | | The Download options related to the selected dataset are displayed by select boxes.  The first check box is not a search criteria but a flag to choose whether to include or not the download options in the search url. | |  |
| *Step-90* | Check the “use download options” check box. Select “download continously” options for download mode. | | |  | |  |
| *Step-100* | Click on the “Share” button | | | A popup is opened with the url to be shared | |  |
| *Step-110* | Select the url and copy it | | | The url is copied | |  |
| *Step-120* | Open a new browser window and paste the url | | | The user client application is loaded with the search widget opened | | *NGEO-WEBC-PFC-0200* |
| *Step-130* | Check the dates in the “Date” tab | | | The start date is 2009-05-01 and end date is 2009-07-01. | | *NGEO-WEBC-PFC-0201* |
| *Step-140* | Check the coordinates in the “Area” tab | | | The following coordinates are set :  West : -20  South: -20  East : 20  North : 20 | | *NGEO-WEBC-PFC-0202* |
| *Step-150* | Check the criteria in the “Advanced” tab | | | For Satellite, “Sentinel-1A” is checked. For Pass, “Ascending” is checked. | | *NGEO-WEBC-PFC-0203* |
| *Step-160* | Check the options in the “Download Options” tab | | | For downloadMode, “Download continuously” is selected. | | *NGEO-WEBC-PFC-0204* |

### NGEO-WEBC-VTP-0210: Data-driven Standing Order Shared URL

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| ***NGEO VALIDATION TEST PROCEDURE*** | | | | | | |
| **Test Identifier** | | *NGEO-WEBC-VTP-0210* | **Test Title** | | *Data-driven standing order shared URL* | |
|  | | | | | | |
| This test procedure implements the test case NGEO-WEBC-VTC-0210: Standing Order Shared URL | | | | | | |
| **Script** | | | | | | |
| None | | | | | | |
| **Step** | **Action** | | | **Expected output** | | **Pass/Fail Criteria Id** |
| *Step-10* | Perform the steps Step-10 and Step-20 of WEBC-VTP-0120 | | | The standing order widget is filled with data-driven standing order parameters. | |  |
| *Step-20* | Change the start date to 2013-02-08 and end date to 2013-06-08 using calendar widget | | |  | |  |
| *Step-30* | Click on the “Share” button | | | A popup is opened with the url to be shared | |  |
| *Step-40* | Select the url and copy it | | | The url is copied | |  |
| *Step-50* | Open a new browser window and paste the url | | | The user client application is loaded with the standing order widget opened | | *NGEO-WEBC-PFC-0210* |
| *Step-60* | Check the start and end date in the opened widget, and the Data-driven check box. | | | The start date is 2013-02-08 and the end date is 2013-06-08. The Data-driven checkbox is selected. | | *NGEO-WEBC-PFC-0211* |

### NGEO-WEBC-VTP-0215: Time-driven Standing Order Shared URL

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST PROCEDURE*** | | | | | | |
| **Test Identifier** | | *NGEO-WEBC-VTP-0215* | **Test Title** | | *Time-driven standing order shared URL* | |
|  | | | | | | |
| This test procedure implements the test case NGEO-WEBC-VTC-0215: Time-driven Standing Order Shared URL | | | | | | |
| **Script** | | | | | | |
| None | | | | | | |
| **Step** | **Action** | | | **Expected output** | | **Pass/Fail Criteria Id** |
| *Step-10* | Perform the steps Step-10 and Step-50 of WEBC-VTP-0125 | | | The standing order widget is filled with time-driven standing order parameters. | |  |
| *Step-20* | Click on the “Share” button | | | A popup is opened with the url to be shared | |  |
| *Step-30* | Select the url and copy it | | | The url is copied | |  |
| *Step-40* | Open a new browser window and paste the url | | | The user client application is loaded with the standing order widget opened | | *NGEO-WEBC-PFC-0210* |
| *Step-50* | Check the time-driven request parameters in the opened widget | | | The Time-driven checkbox is selected. The Shifting period is set to 15. The “Apply shifting…” checkbox is selected. | | *NGEO-WEBC-PFC-0212* |

### NGEO-WEBC-VTP-0220: Zone of interest: draw

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| --- | --- | --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST PROCEDURE*** | | | | | | |
| **Test Identifier** | | *NGEO-WEBC-VTP-0220* | **Test Title** | | *Zone of interest: draw* | |
|  | | | | | | |
| This test procedure implements the test case NGEO-WEBC-VTC-0220: Zone of interest: draw | | | | | | |
| **Script** | | | | | | |
| None | | | | | | |
| **Step** | **Action** | | | **Expected output** | | **Pass/Fail Criteria Id** |
| *Step-10* | Perform the steps of WEBC-VTP-0030 | | | The search widget is opened, the Area Tab is opened | |  |
| *Step-20* | Clik on the “Box” button | | | The Box GUI is displayed | |  |
| *Step-30* | Click on the “Draw” button | | | The widget is hidden | |  |
| *Step-40* | Press the left mouse button on the map | | | None | |  |
| *Step-50* | Drag the mouse to another location on the map. | | | A rectangle is displayed starting at pressed position to the current one | |  |
| *Step-60* | Release the left mouse button | | | The search widget is reopen | | *NGEO-WEBC-PFC-0220* |
| *Step-70* | Check the values into west,south,east, north | | | The values should be equals to the drawn rectangle | | *NGEO-WEBC-PFC-0220* |
| *Step-80* | Clik on the “Polygon” button | | | The Polygon GUI is displayed | |  |
| *Step-90* | Click on the “Draw” button | | | The widget is hidden | |  |
| *Step-100* | Click on a location in the map | | | A line is displayed while the mouse is move after the click | |  |
| *Step-110* | Click at different locations on the map to draw a polygon. | | | The polygon is displayed | |  |
| *Step-60* | Double click to finish drawing the polygon | | | The search widget is reopen | | *NGEO-WEBC-PFC-0221* |
| *Step-70* | Check the values into the coordinates area | | | The values should be equals to the drawn polygon | | *NGEO-WEBC-PFC-0210* |

### NGEO-WEBC-VTP-0224: Zone of interest: gazetteer

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| --- | --- | --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST PROCEDURE*** | | | | | | |
| **Test Identifier** | | *NGEO-WEBC-VTP-0224* | **Test Title** | | *Zone of interest: gazetteer* | |
|  | | | | | | |
| This test procedure implements the test case NGEO-WEBC-VTC-0224: Zone of interest: gazetteer | | | | | | |
| **Script** | | | | | | |
| None | | | | | | |
| **Step** | **Action** | | | **Expected output** | | **Pass/Fail Criteria Id** |
| *Step-10* | Perform the steps of WEBC-VTP-0030 | | | The search widget is opened, the Area Tab is opened | |  |
| *Step-20* | Clik on the “Gazetteer” button | | | The Gazetter GUI is displayed | |  |
| *Step-30* | Enter a valid location in the search field and press enter | | | Resulst from gazetteer are displayed. The first one is selected. The map zooms on the location. The search area is displayed as a polygon on the map. | | *NGEO-WEBC-PFC-0224* |
| *Step-40* | Enter an invalid location in the search field and press enter | | | Results are erased. The search area is now empty, and not displayed on the map. | | *NGEO-WEBC-PFC-0225* |

### NGEO-WEBC-VTP-0228: Zone of interest: Manual polygon

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST PROCEDURE*** | | | | | | |
| **Test Identifier** | | *NGEO-WEBC-VTP-0228* | **Test Title** | | *Zone of interest: manual polygon* | |
|  | | | | | | |
| This test procedure implements the test case NGEO-WEBC-VTC-0228: Zone of interest: Manual polygon | | | | | | |
| **Script** | | | | | | |
| None | | | | | | |
| **Step** | **Action** | | | **Expected output** | | **Pass/Fail Criteria Id** |
| *Step-10* | Perform the steps of WEBC-VTP-0030 | | | The search widget is opened, the Area Tab is opened | |  |
| *Step-20* | Clik on the “Polygon” button | | | The Import GUI is displayed | |  |
| *Step-30* | Copy/paste the from test\_data/manual\_polygon.txt in the text area. | | | The area is displayed in the map. | | *NGEO-WEBC-PFC-0228* |
| *Step-40* | Enter invalid coordinates in the text area. | | | Text area is emptied. The area is removed from the map. | | *NGEO-WEBC-PFC-0229* |

### NGEO-WEBC-VTP-0230: Export

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST PROCEDURE*** | | | | | | |
| **Test Identifier** | | *NGEO-WEBC-VTP-0230* | **Test Title** | | *Export* | |
|  | | | | | | |
| This test procedure implements the test case NGEO-WEBC-VTC-0230: Export | | | | | | |
| **Script** | | | | | | |
| None | | | | | | |
| **Step** | **Action** | | | **Expected output** | | **Pass/Fail Criteria Id** |
| *Step-10* | Perform the steps of WEBC-VTP-0040 | | | The table widget is opened, with different products. | |  |
| *Step-20* | Select a product in the table. | | | The Export button is enabled | |  |
| *Step-30* | Click on the export button | | | A popup is opened | |  |
| *Step-40* | Select the KML format and click on download button | | | The browser download the file. | |  |
| *Step-50* | Check the KML is correct by visualising it in Google Earth or by looking at the file | | |  | | *NGEO-WEBC-PFC-0230* |

### NGEO-WEBC-VTP-0240: Time Slider Display

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST PROCEDURE*** | | | | | | |
| **Test Identifier** | | *NGEO-WEBC-VTP-0240* | **Test Title** | | *Time Slider Display* | |
|  | | | | | | |
| This test procedure implements the test case NGEO-WEBC-VTC-0240: Time Slider Display | | | | | | |
| **Script** | | | | | | |
| None | | | | | | |
| **Step** | **Action** | | | **Expected output** | | **Pass/Fail Criteria Id** |
| *Step-10* | Perform the steps of WEBC-VTP-0020 | | | A dataset is selected | |  |
| *Step-20* | On the toolbar, click on the “Search” button | | | The search widet is displayed. The “Date” tab is shown. It contains the start and stop dates of the dataset and a checkbox “use Time Slider “. | |  |
| *Step-30* | Check the “use Time Slider “ checkbox” | | | The search criteria widget is hidden and the time slider is displayed in the bottom of the map. | | *NGEO-WEBC-PFC-0240* |
| *Step-40* | On the toolbar, click on the “Search” button | | | The search widet is displayed. The “Date” tab is shown. The “use Time Slider” checkbox is checked. | |  |
| *Step-50* | UnCheck the “use Time Slider “ checkbox” | | | The time slider is removed from the bottom of the map | | *NGEO-WEBC-PFC-0241* |

### NGEO-WEBC-VTP-0243: Time Slider Depends on the selected dataset

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST PROCEDURE*** | | | | | | |
| **Test Identifier** | | *NGEO-WEBC-VTP-0243* | **Test Title** | | *Time Slider Depends on the Selected Dataset* | |
|  | | | | | | |
| This test procedure implements the test case NGEO-WEBC-VTC-0243: Time Slider Depends on the Selected Dataset. | | | | | | |
| **Script** | | | | | | |
| None | | | | | | |
| **Step** | **Action** | | | **Expected output** | | **Pass/Fail Criteria Id** |
| *Step-10* | Perform the steps of WEBC-VTP-0020 | | | A dataset is selected | |  |
| *Step-20* | On the toolbar, click on the “Search” button | | | The search widet is displayed. The “Date” tab is shown. It contains the start and stop dates of the dataset and a checkbox “use Time Slider “. | |  |
| *Step-30* | Check the “use Time Slider “ checkbox” | | | The search criteria widget is hidden and the time slider is displayed in the bottom of the map.  The maximum slider date is the dataset stop date. | | *NGEO-WEBC-PFC-0240*  *NGEO-WEBC-PFC-0243* |
| *Step-40* | On the toolbar, click on the “Datasets” button | | | The dataset selection widget is displayed. | |  |
| *Step-50* | Select a dataset different from the already selected one | | | The time slider is refreshed with the new dataset stop date range as a maximum date. | | *NGEO-WEBC-PFC-0243* |

### NGEO-WEBC-VTP-0245: Search with Time Slider

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST PROCEDURE*** | | | | | | |
| **Test Identifier** | | *NGEO-WEBC-VTP-0245* | **Test Title** | | *Search with Time Slider* | |
|  | | | | | | |
| This test procedure implements the test case NGEO-WEBC-VTC-0245: Search with Time Slider | | | | | | |
| **Script** | | | | | | |
| None | | | | | | |
| **Step** | **Action** | | | **Expected output** | | **Pass/Fail Criteria Id** |
| *Step-10* | Perform Step-10 to Step-30from WEBC-VTP-0020 | | | The time slider is displayed | |  |
| *Step-20* | Click on the blue bar inside the time slider and move it inside the slider to the required position then release the bar. | | | The bar is moved inside the time slider and a search is submitted with the chosen dates. On the map, the retrieved products are displayed. | | *NGEO-WEBC-PFC-0245* |
| *Step-30* | Click on the right handle of the bar inside the time slider and move it inside the slider to the required position then release the handle. | | | The right handle is moved inside the time slider and a search is submitted with the chosen dates. On the map, the retrieved products are displayed. | | *NGEO-WEBC-PFC-0246* |
| *Step-40* | Click on the left handle of the bar inside the time slider and move it inside the slider to the required position then release the handle. | | | The left handle is moved inside the time slider and a search is submitted with the chosen dates. On the map, the retrieved products are displayed. | | *NGEO-WEBC-PFC-0247* |
| *Step-50* | Click on the right arrow of the time slider. | | | The bar is moved to the right side inside the time slider and a search is submitted with the chosen dates. On the map, the retrieved products are displayed. | | *NGEO-WEBC-PFC-0228* |
| *Step-60* | Click on the left arrow of the time slider. | | | The bar is moved to the right side inside the time slider and a search is submitted with the chosen dates. On the map, the retrieved products are displayed. | | *NGEO-WEBC-PFC-0249* |

### NGEO-WEBC-VTP-0250: User Preferences

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST PROCEDURE*** | | | | | | |
| **Test Identifier** | | *NGEO-WEBC-VTP-0250* | **Test Title** | | *User Preferences* | |
|  | | | | | | |
| This test procedure implements the test case NGEO-WEBC-VTC-0250: The selected dataset is stored in the preferences. | | | | | | |
| **Script** | | | | | | |
| None | | | | | | |
| **Step** | **Action** | | | **Expected output** | | **Pass/Fail Criteria Id** |
| *Step-10* | Launch the application with the choosen browser | | | The web client is launched | |  |
| *Step-20* | Click on the “Datasets” button on the toolbar | | | The datasets selection widget is displayed | |  |
| *Step-30* | Click on the dataset ítem in the list to select a dataset. | | | The dataset is selected. Its identifier is displayed in the bottom of the map. | |  |
| *Step-40* | Click on ‘My Account’ menu | | | The ‘Download Managers’, ‘Data Access Requests’, ‘Inquiries’ and ‘User Preferences’ tabs are displayed. | |  |
| *Step-50* | Click on the ‘User Preferences’ tab | | | The list of selected preferences is displayed and the dataset which has been selected is displayed. | | *NGEO-WEBC-PFC-0250* |
| *Step-60* | Click on the “Background” button on the toolbar | | | The list of background layers is displayed, the first one is selected by default. | |  |
| *Step-70* | Check the checkbox of a background layer different of the default one. | | | The map background layer is updated. | |  |
| *Step-80* | Click on the ‘User Preferences’ tab | | | The list of selected preferences is displayed and the background layer which has been selected is displayed. | | *NGEO-WEBC-PFC-0251* |
| *Step-90* | Launch the application in a new window or tab of the same used browser. | | | The application is launched | |  |
| *Step-100* | Open the dataset selection widget | | | The last selected dataset is selected. | | *NGEO-WEBC-PFC-0253* |
| *Step-110* | Open the backgound selection widget | | | The last selected backgound layer is selected | | *NGEO-WEBC-PFC-0253* |
| *Step-120* | Click on the ‘User Preferences’ tab | | | The list of the last selected preferences is displayed | | *NGEO-WEBC-PFC-0253* |

### NGEO-WEBC-VTP-0260: Inquiries

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST PROCEDURE*** | | | | | | |
| **Test Identifier** | | *NGEO-WEBC-VTP-0260* | **Test Title** | | *Inquiries* | |
|  | | | | | | |
| This test procedure implements the test case NGEO-WEBC-VTC-0260: Inquiries. | | | | | | |
| **Script** | | | | | | |
| None | | | | | | |
| **Step** | **Action** | | | **Expected output** | | **Pass/Fail Criteria Id** |
| *Step-10* | Launch the application with the choosen browser | | | The web client is launched | |  |
| *Step-20* | Click on ‘My Account’ menu entry | | | My Account tabs are displayed. The ‘Download manager’ tab is displayed. | |  |
| *Step-30* | Click on the “Inquiries” tab | | | The inquitries view is displayed with the combo-box of the inquiries type, a text area to enter the inquiries text and a submit button to submit the inquiry request. | |  |
| *Step-40* | Click on the combo box after ‘Choose the inquiry type’ and select the inquiry type among the available choices. | | | The inquiry type is selected | | *NGEO-WEBC-PFC-0260* |
| *Step-50* | Enter the inquiry text message after ‘Enter the inquiry message’. | | | The inquiry message is entred | | *NGEO-WEBC-PFC-0261* |
| *Step-60* | Click on ‘Submit’ button | | | The inquiy shall be sent the server. | | *NGEO-WEBC-PFC-0262* |

## Software Validation Analysis, Inspection, Review of Design

|  |  |  |  |
| --- | --- | --- | --- |
| Identifier | Description | M | Inspection Activity or comments |
| ngEO-SUB-004-WEBC-DES | The Web client shall allow the user to organise the graphical widgets at will. Widgets shall be movable, expandable, and collapsible. | D | After a first review meeting with Magellium, widgets are not movable. It gives a better user experience if the widgets are just well placed. |
| ngEO-SUB-005-WEBC-DES | A widget shall be hidden or displayed depending on whether the user is allowed to use it or not. | D | For V1, a user is mainly always allows to use any widget. Except the Search widget is only available when the user has selected a dataset. |
| ngEO-SUB-008-WEBC-DES | Widget shall be clearable, it shall be possible to return to the default state. | D | See chapter 5.3.4.1 in [RD.1]. Web Client uses MVC design pattern, that allows easy reset of a widget (ie. A view). |
| ngEO-SUB-009-WEBC-DES | Widgets shall be able to communicate between each other. | R | See chapter 5.3.4.1 in [RD.1]. Web Client uses Backbone Events to communicate between widgets. |
| ngEO-SUB-016-WEBC-DES | The Web client shall be an HTML5/CSS/Javascript based interface. | R | See chapter 5.1 in [RD.1]. |
| ngEO-SUB-021-WEBC-DES | Offline caching should be used to allow offline browsing, improve page-load speed and reduce load on the server. | R | See chapter 5.3.1 in [RD.1]. Web Client uses Require.Js build system to improve page-load speed. |
| ngEO-SUB-023-WEBC-DES | To avoid annoying behaviours resulting from the user forgetting to switch back between two different types of control, selecting and unselecting of controls shall follow the notion of “control atomicity”: A selected control is enabled for only one action. Once the action is completed the control is disabled and the default control, which is the navigation control, is automatically enabled. | D | The requirement can be demonstrated when drawing the search area in the map. |
| ngEO-SUB-024-WEBC-DES | The Web client is primarily implemented for Desktop/Laptop computers.  The Web client shall be designed to allow an administrator with HTML5 skills to create modified instances of the GUI.  The Web client instance for Touch screens (tablets, smartphones) shall be derived from the Desktop version. | D | A demonstration can be done of CSS/HTML modifications. |
| ngEO-SUB-025-WEBC-DES | In the prospect of declining the GUI to touch devices’ version, the implementation should avoid mouse’s right click events. Only left click equivalent to touch should be used.  Other means should be privileged to mouseover events as there is no equivalent for them in touch devices. | D | A review of Web Client user interaction should be demonstrated to prove that no right-click events are used. |
| ngEO-SUB-055-WEBC-DES | The Web client is protected by the UM-SSO. | R | UM-SSO is only used when integrated in system, so the requirements cannot be validated for a stand-alone subsystem. |
| ngEO-SUB-058-WEBC-DES | When the user launches the Web client, the Web client requests dataset definitions from the Web server as JSon data.  If the user logs-in then the Web client requests also the dataset authorisations for that user from the Web server.  The list of datasets’ attributes, authorisations is downloaded as JSon data. | R | Using a browser inspector tool, the requirement can be verified by showing requests exchanged with the Web Server. |
| ngEO-SUB-060-WEBC-DES | The dataset definitions and authorisations shall be up to date. The web client shall retrieve these informations periodically and transparently for the user. | R | See Jira issue : [NGEO-304](https://magelliumltd.atlassian.net/browse/NGEO-304" \t "_parent). |
| ngEO-SUB-201-WEBC-OPE | The Web Client shall be accessible from a wide range of modern web browsers including:  - Internet Explorer 9+  - FireFox 4+  - Chrome 12+  - Safari 5+ | D | Test cases are verified using a mixture of theses different browsers. |
| ngEO-SUB-202-WEBC-OPE | It shall be possible to access the Web client from different operating systems including:  - Windows  - Mac OS  - Linux | R | There are no restrictions on operating systems because Web Client is a pure Web Application without any plugin. See chapter 5.1 in [RD.1]. |
| ngEO-SUB-203-WEBC-OPE | For small screens devices and touch screen devices, it shall be possible with HTML5 skills to customise a dedicated interface. | R | A review of CSS/HTML modifications files can be done to see how to customize the interface. |
| ngEO-SUB-204-WEBC-OPE | No plug-in shall be needed to access the Web client. The only exception is for the 3D map module which may require a specific browser plug in. | R | See chapter 5.1 in [RD.1], Web Client uses only HTML/Javascript/CSS. |
| ngEO-SUB-205-WEBC-OPE | The Web client dates follows the standard display: yyyy-MM-dd | R | A review of all date widgets (search, standing order) is sufficient to prove that the standard display is used anywhere. |
| ngEO-SUB-206-WEBC-OPE | The Web client shall be able to retrieve its configuration from the Web server. | D | Using a browser inspector tool, it can be demonstrated that Web Client send a request to the Web Server to retrieve its configuration. |
| ngEO-SUB-207-WEBC-OPE | URLs generated by the Web client shall have a length that is supported by the browsers listed in the requirement ngEO-SUB-201-WEBC-OPE. | R | It can be checked that Web Client URLs are short. |
| ngEO-SUB-215-WEBC-OPE | “Skinnable” GUI | R | See chapter 5.1 in [RD.1], Web Client uses CSS so GUI can be modified. |
| ngEO-SUB-301-WEBC-INT | The interface between the Web client and the Web server shall implement at least the following exchange:  - Datasets’ list retrieval including authorisations of the current user  - Opensearch catalogue search including interferometric and correlation search  - Shopcarts and Data access requests management  - Download managers management  - Request to join user Categories and inquiries  - The Web client configuration | R | Using a browser inspector tool, check the request exchanged between WebServer and WebClient. Or refer to chapter 7.4 to see all test cases that apply to WebServer interfaces. |
| ngEO-SUB-401-WEBC-RAM | The Web client shall be designed for an operational life of at least 20 years. | R | The Web Client is developed following the HTML5 standard. A demonstration on different browsers should prove the correctness of the implementation. |
| ngEO-SUB-402- WEBC -RAM | The Web client services availability shall be the same as the Web server’s availability, that is to say 99.5% computed over any one month time window. | R | Web Client is delivered through the Web Server HTTP server (Apache). Availability depends entirely on the Web Server configuration. |
| ngEO-SUB-701-WEBC-PER | In at least 80% of the cases, actions performed inside the Web client not using the interfaces shall have a response time of less than 1 second. | D | The requirements is really to hard to verify, a demonstration should be done to prove the responsiveness of the application. |

## Validation Test Platform Requirements

### Hardware and os configuration

A standard PC with a compliant OpenGL graphics card is needed to run all the tests. The graphics card is needed for map in 3D mode.

The OS and its configuration are described in [AD.3].

Also, a compatible HTML5 browser must be installed (see ngEO-SUB-201-WEBC-OPE requirements in [AD.2]):

* Internet explorer >= 9
* Firefox >= 4
* Chrome >= 12
* Safari >= 5

### Stub server configuration

The stub server must be installed and launch following steps described in [AD.3].

Summary of steps:

* Install node.js
  + rpm –Uvh nodejs-0.8.11-1.x86\_64.rpm)
* Install the stub server
  + rpm –Uvh esa-webclient-testserver-ngeo-XX-YY.noarch.rpm
* Launch the stub server (as root)
  + node /usr/local/webclient-testserver/app.js

The following file in /usr/local/webclient-testserver are used by the stub server to test the Web Server interfaces:

|  |  |  |
| --- | --- | --- |
| File | Interface | Comments |
| datasetPopulationMatrix/datasets/json | IF-ngEO-DatasetPopulationMatrix | The dataset population matrix sent by the test server. |
| datasetSearchInfo/{datasetId}\_datasetInfo.json | IF-ngEO-DatasetSearchInfo | The dataset info for each datasets identifier defined in the dataset population matrix. |
| dataAccessRequestStatus/ statuses.json | IF-ngEO-UserDataAccessReqConfigData | The data access request of the default user sent by the test server |
| downloadManagers/ downloadManagersConfigData.json | IF-ngEO-UserDlManagersConfigData | The list of registered download managers sent by the test server |
| downloadManagers/ downloadManagerDisableResponse.json | IF-ngEO-DownloadManagerChange | The response sent by the server when a download manager is disabled |
| simpleDataAccessRequest/validationResponse.json | IF-ngEO-DataAccessRequest | The validation response sent by the server |
| simpleDataAccessRequest/confirmationResponse.json | IF-ngEO-DataAccessRequest | The confirmation response sent by the server |
| standingOrderDataAccessRequest/validationResponse.json | IF-ngEO-DataAccessRequest | The validation response sent by the server |
| standingOrderDataAccessRequest /confirmationResponse.json | IF-ngEO-DataAccessRequest | The confirmation response sent by the server |
| productSearch/results.json | IF-ngEO-CatalogueSearch | A GeoJSON file used to populate with valid properties the various response. |
| productSearch/ dataFromEOLI.txt | IF-ngEO-CatalogueSearch | A text file extracted from EOLI server response used to send a valid response for catalogue search when datasetId is ND\_OPT\_1 |
| productSearch/ sar\_coverage.xml | IF-ngEO-CatalogueSearch | A XML WCS coverage description file extracted from EOX Browse Server used to send a response for default datasetId. The response contains browse information for EOX test server located at http://ngeo.eox.at. |
| productSearch/ Response.json | IF-ngEO-CatalogueSearch | A GeoJSON file extracted from Terradue Web Server used to send a response for results when datasetId is ATS\_TOA\_1P. |

### Download managers registration

For some test procedures, download managers need to be registered. By default, the stub server has 3 download managers registered.

To test without any download managers, the JSON file downloadManagers/ downloadManagersConfigData.json needs to be modified: the "downloadmanagers" must be an empty array.

# Software Test plan Additional information

## Requirements to Test/Analysis/Inspection/Review

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **SSRD-WC Requirement ID** | **Requirement Title** | **Test** | **Test Cases** | **Version** |
| ngEO-SUB-001-WEBC-DES | Web user interface | T | NGEO-WEBC-VTC-0010 | V1 |
| ngEO-SUB-002-WEBC-DES | Web user interface | T | NGEO-WEBC-VTC-0010 | V1 |
| ngEO-SUB-004-WEBC-DES | Web Client Layout | D | N/A | V1 |
| ngEO-SUB-005-WEBC-DES | Widget Visibility | D | N/A | V1 |
| ngEO-SUB-008-WEBC-DES | Widget reset | D | N/A | V1 |
| ngEO-SUB-009-WEBC-DES | Widget communication | R | N/A | V1 |
| ngEO-SUB-013-WEBC-DES | Shared Web interface context | T | NGEO-WEBC-VTC-0200  NGEO-WEBC-VTC-0210  NGEO-WEBC-VTC-0215 | V1 |
| ngEO-SUB-014-WEBC-DES | Catalogue search | T | NGEO-WEBC-VTC-0080 | V1 |
| ngEO-SUB-015-WEBC-DES | Web Client Orientation Page | T | NGEO-WEBC-VTC-0010 | V1 |
| ngEO-SUB-016-WEBC-DES | Technology | R | N/A | V1 |
| ngEO-SUB-021-WEBC-DES | HTML5 Caching | R | N/A | V1 |
| ngEO-SUB-022-WEBC-DES | Map | T | NGEO-WEBC-VTC-0090 | V1 |
| ngEO-SUB-023-WEBC-DES | Map controls | D | N/A | V1 |
| ngEO-SUB-024-WEBC-DES | Web client implementations | D | N/A | V1 |
| ngEO-SUB-025-WEBC-DES | Multi-devices' considerations | D | N/A | V1 |
| ngEO-SUB-026-WEBC-DES | GUI widgets | T | NGEO-WEBC-VTC-0020  NGEO-WEBC-VTC-0040  NGEO-WEBC-VTC-0160  NGEO-WEBC-VTC-0170 | V1-V2 |
| ngEO-SUB-028-WEBC-DES | Product meta-data | T | NGEO-WEBC-VTC-0040 | V1 |
| ngEO-SUB-030-WEBC-DES | Product footprints | T | NGEO-WEBC-VTC-0050 | V1 |
| ngEO-SUB-031-WEBC-DES | Product footprints Display | T | NGEO-WEBC-VTC-0095 | V1 |
| ngEO-SUB-033-WEBC-DES | Browse display | T | NGEO-WEBC-VTC-0060 | V1 |
| ngEO-SUB-034-WEBC-DES | Footprint and browse selection | T | NGEO-WEBC-VTC-0050  NGEO-WEBC-VTC-0060 | V1 |
| ngEO-SUB-035-WEBC-DES | Overlay layers | T | NGEO-WEBC-VTC-0095 | V1 |
| ngEO-SUB-036-WEBC-DES | Background maps | T | NGEO-WEBC-VTC-0090 | V1 |
| ngEO-SUB-037-WEBC-DES | Gazetteers | T | NGEO-WEBC-VTC-0228 | V1 |
| ngEO-SUB-038-WEBC-DES | Direct Download | T | NGEO-WEBC-VTC-0150  NGEO-WEBC-VTC-0151 | V1 |
| ngEO-SUB-039-WEBC-DES | Shopcarts | R | TBD for V2 | V2 |
| ngEO-SUB-040-WEBC-DES | Shopcarts URL | R | TBD for V2 | V2 |
| ngEO-SUB-041-WEBC-DES | Shared shopcarts | R | TBD for V2 | V2 |
| ngEO-SUB-042-WEBC-DES | Shared shopcarts Loading | R | TBD for V2 | V2 |
| ngEO-SUB-043-WEBC-DES | Groups of search results | R | TBD for V2 | V2 |
| ngEO-SUB-045-WEBC-DES | Groups of search results for correlation | R | TBD for V2 | V2 |
| ngEO-SUB-046-WEBC-DES | Groups of search results for interferometry | R | TBD for V2 | V2 |
| ngEO-SUB-048-WEBC-DES | Opensearch URL | T | NGEO-WEBC-VTC-0080 | V1 |
| ngEO-SUB-049-WEBC-DES | Opensearch URL Submitting | T | NGEO-WEBC-VTC-0080 | V1 |
| ngEO-SUB-050-WEBC-DES | Standing Order initialisation | T | NGEO-WEBC-VTC-0120  NGEO-WEBC-VTC-0125  NGEO-WEBC-VTC-0126 | V1 |
| ngEO-SUB-055-WEBC-DES | Authentication | R | N/A | V1 |
| ngEO-SUB-058-WEBC-DES | Initialisations | R | N/A | V1/V2 |
| ngEO-SUB-060-WEBC-DES | Dataset Definition refresh | D | N/A | V1 |
| ngEO-SUB-061-WEBC-DES | Geographical Extent of the catalogue search | T | NGEO-WEBC-VTC-0190 | V1 |
| ngEO-SUB-062-WEBC-DES | File exchange for Shopcart | T | TBD for V2 | V2 |
| ngEO-SUB-063-WEBC-DES | File exchange | T | NGEO-WEBC-VTC-0230 | V1 |
| ngEO-SUB-101-WEBC-FUN | Web Client homepage | T | NGEO-WEBC-VTC-0010 | V1 |
| ngEO-SUB-102-WEBC-FUN | Data access services | T | NGEO-WEBC-VTC-0030  NGEO-WEBC-VTC-0110  NGEO-WEBC-VTC-0150 | V1 |
| ngEO-SUB-103-WEBC-FUN | Data access services area | T | NGEO-WEBC-VTC-0020 | V1 |
| ngEO-SUB-104-WEBC-FUN | Map mode | T | NGEO-WEBC-VTC-0090 | V1 |
| ngEO-SUB-105-WEBC-FUN | Default map mode | T | NGEO-WEBC-VTC-0010 | V1 |
| ngEO-SUB-106-WEBC-FUN | Map's enrichment | T | NGEO-WEBC-VTC-0095 | V1 |
| ngEO-SUB-107-WEBC-FUN | selection of item on map | T | NGEO-WEBC-VTC-0100 | V1 |
| ngEO-SUB-108-WEBC-FUN | zone of interest definition | T | NGEO-WEBC-VTC-0190  NGEO-WEBC-VTC-0220  NGEO-WEBC-VTC-0224  NGEO-WEBC-VTC-0228 | V1 |
| ngEO-SUB-109-WEBC-FUN | Map's navigation and zooming | T | NGEO-WEBC-VTC-0100 | V1 |
| ngEO-SUB-110-WEBC-FUN | Map's layers management | T | NGEO-WEBC-VTC-0095 | V1 |
| ngEO-SUB-111-WEBC-FUN | Dataset Chooser | T | NGEO-WEBC-VTC-0020 | V1 |
| ngEO-SUB-112-WEBC-FUN | Dataset Chooser | T | NGEO-WEBC-VTC-0070 | V1 |
| ngEO-SUB-113-WEBC-FUN | Dataset selection | T | NGEO-WEBC-VTC-0020 | V1 |
| ngEO-SUB-114-WEBC-FUN | Dataset selection service | T | NGEO-WEBC-VTC-0020 | V1/V2 |
| ngEO-SUB-115-WEBC-FUN | Default layers for the Map Widget | T | NGEO-WEBC-VTC-0090 | V1 |
| ngEO-SUB-116-WEBC-FUN | Dataset selection dynamic | T | NGEO-WEBC-VTC-0020  NGEO-WEBC-VTC-0165 | V1 |
| ngEO-SUB-117-WEBC-FUN | Multiple searches | T | TBD for V2 | V2 |
| ngEO-SUB-118-WEBC-FUN | Multiple Dataset selection service | T | TBD for V2 | V2 |
| ngEO-SUB-119-WEBC-FUN | Interferometric search | T | TBD for V2 | V2 |
| ngEO-SUB-121-WEBC-FUN | Catalogue search | T | NGEO-WEBC-VTC-0165  NGEO-WEBC-VTC-0175  TBC for V2 | V1/V2 |
| ngEO-SUB-122-WEBC-FUN | Search parameters | T | NGEO-WEBC-VTC-0160 | V1 |
| ngEO-SUB-123-WEBC-FUN | Search parameters | T | NGEO-WEBC-VTC-0160 | V1 |
| ngEO-SUB-124-WEBC-FUN | Catalogue search settings | T | NGEO-WEBC-VTC-0030  NGEO-WEBC-VTC-0160 | V1 |
| ngEO-SUB-126-WEBC-FUN | Catalogue search: spatial criteria | T | NGEO-WEBC-VTC-0230 | V1 |
| ngEO-SUB-128-WEBC-FUN | Catalogue search: time extent | T | NGEO-WEBC-VTC-0030 | V1 |
| ngEO-SUB-129-WEBC-FUN | Catalogue search: time slider | T | NGEO-WEBC-VTD-0220  NGEO-WEBC-VTD-0223  NGEO-WEBC-VTD-0225 | V1 |
| ngEO-SUB-130-WEBC-FUN | Catalogue search: download options | T | NGEO-WEBC-VTC-0170 | V1 |
| ngEO-SUB-131-WEBC-FUN | Catalogue search: Opensearch query | T | NGEO-WEBC-VTC-0080 | V1 |
| ngEO-SUB-132-WEBC-FUN | Catalogue search: Opensearch query | T | NGEO-WEBC-VTC-0080  NGEO-WEBC-VTC-0165 | V1 |
| ngEO-SUB-133-WEBC-FUN | Catalogue search: Use a pre-built Opensearch query | T | NGEO-WEBC-VTC-0080 | V1 |
| ngEO-SUB-134-WEBC-FUN | Correlation Search Activation | T | TBD for V2 | V2 |
| ngEO-SUB-135-WEBC-FUN | Correlation and Interferometric Search Criteria | T | TBD for V2 | V2 |
| ngEO-SUB-137-WEBC-FUN | Search results: pagination | T | NGEO-WEBC-VTC-0040 | V1 |
| ngEO-SUB-138-WEBC-FUN | Search results: pagination | T | NGEO-WEBC-VTC-0040 | V1 |
| ngEO-SUB-139-WEBC-FUN | Search results: result table | T | NGEO-WEBC-VTC-0040 | V1 |
| ngEO-SUB-140-WEBC-FUN | Search results: result table | T | NGEO-WEBC-VTC-0040 | V1 |
| ngEO-SUB-141-WEBC-FUN | Search results: result footprints | T | NGEO-WEBC-VTC-0050 | V1 |
| ngEO-SUB-142-WEBC-FUN | Search results: products group in search result | T | TBD for V2 | V2 |
| ngEO-SUB-143-WEBC-FUN | Search results: Browse images | T | NGEO-WEBC-VTC-0060 | V1 |
| ngEO-SUB-144-WEBC-FUN | Search results: Browse images | T | TBD for V2 | V2 |
| ngEO-SUB-145-WEBC-FUN | GANTT chart | T | TBD for V2 | V2 |
| ngEO-SUB-146-WEBC-FUN | GANTT chart | T | TBD for V2 | V2 |
| ngEO-SUB-147-WEBC-FUN | GANTT chart | T | TBD for V2 | V2 |
| ngEO-SUB-148-WEBC-FUN | Download options edition | T | NGEO-WEBC-VTC-0173 | V1 |
| ngEO-SUB-149-WEBC-FUN | Use of the search results | T | NGEO-WEBC-VTC-0110 | V1-V2 |
| ngEO-SUB-150-WEBC-FUN | Search results: Transfer to shopcart | T | TBD for V2 | V2 |
| ngEO-SUB-152-WEBC-FUN | Search results: Data access request | T | NGEO-WEBC-VTC-0110 | V1 |
| ngEO-SUB-153-WEBC-FUN | Search results: Data access request | T | TBD for V2 | V2 |
| ngEO-SUB-155-WEBC-FUN | Search results: Planned products' exception | T | NGEO-WEBC-VTC-0110 | V1 |
| ngEO-SUB-156-WEBC-FUN | My Account: Shopcarts management | T | TBD for V2 | V2 |
| ngEO-SUB-157-WEBC-FUN | My Account: Data access requests management | T | NGEO-WEBC-VTC-0140 | V1 |
| ngEO-SUB-158-WEBC-FUN | Product direct download | T | NGEO-WEBC-VTC-0150  NGEO-WEBC-VTC-0151 | V1 |
| ngEO-SUB-159-WEBC-FUN | Data access request types | T | NGEO-WEBC-VTC-0110  NGEO-WEBC-VTC-0120 | V1-V2 |
| ngEO-SUB-160-WEBC-FUN | Simple data access | T | NGEO-WEBC-VTC-0110 | V1 |
| ngEO-SUB-161-WEBC-FUN | Enhanced data access | T | TBD for V2 | V2 |
| ngEO-SUB-162-WEBC-FUN | Special Download Option Values | T | TODO  See jira issue 483 | V1 |
| ngEO-SUB-163-WEBC-FUN | Standing order | T | NGEO-WEBC-VTC-0120 | V1 |
| ngEO-SUB-164-WEBC-FUN | Standing order Types | T | NGEO-WEBC-VTC-0120  NGEO-WEBC-VTC-0125  NGEO-WEBC-VTC-0126 | V1 |
| ngEO-SUB-165-WEBC-FUN | Standing order Pause/Resume | T | NGEO-WEBC-VTC-0140 | V1 |
| ngEO-SUB-166-WEBC-FUN | Standing order with processing | T | TBD for V2 | V2 |
| ngEO-SUB-167-WEBC-FUN | Data Access Requests and Standing Orders monitoring | T | NGEO-WEBC-VTC-0140 | V1 |
| ngEO-SUB-168-WEBC-FUN | My Account Handling | T | NGEO-WEBC-VTC-0130  NGEO-WEBC-VTC-0131  NGEO-WEBC-VTC-0140  NGEO-WEBC-VTC-0250 | V1 |
| ngEO-SUB-169-WEBC-FUN | Assignment of a Data access request | T | NGEO-WEBC-VTC-0110  NGEO-WEBC-VTC-0115 | V1 |
| ngEO-SUB-170-WEBC-FUN | Estimated download Size | T | NGEO-WEBC-VTC-0110 | V1 |
| ngEO-SUB-175-WEBC-FUN | My Account functions | T | NGEO-WEBC-VTC-0130  NGEO-WEBC-VTC-0131  NGEO-WEBC-VTC-0140 | V1-V2 |
| ngEO-SUB-176-WEBC-FUN | Sharing of shopcarts | T | TBD for V2 | V2 |
| ngEO-SUB-177-WEBC-FUN | Sharing of interface context | T | NGEO-WEBC-VTC-0200  NGEO-WEBC-VTC-0210 | V1 |
| ngEO-SUB-179-WEBC-FUN | User Authorizations | T | TBD for V2 | V2 |
| ngEO-SUB-180-WEBC-FUN | User Categories | T | TBD for V2 | V2 |
| ngEO-SUB-181-WEBC-FUN | Inquiries | T | NGEO-WEBC-VTC-0260 | V1-V2 |
| ngEO-SUB-182-WEBC-FUN | Inquiries Types | T | NGEO-WEBC-VTC-0260 | V1 |
| ngEO-SUB-183-WEBC-FUN | Help | T | NGEO-WEBC-VTC-0180 | V1 |
| ngEO-SUB-184-WEBC-FUN | Help chapters | T | NGEO-WEBC-VTC-0180 | V1 |
| ngEO-SUB-185-WEBC-FUN | Button description | T | NGEO-WEBC-VTC-0180 | V1 |
| ngEO-SUB-186-WEBC-FUN | DataSet Description | T | TODO Missing interface with WebServer | V1 |
| ngEO-SUB-187-WEBC-FUN | Useful links | T | NGEO-WEBC-VTC-0130 | V1 |
| ngEO-SUB-188-WEBC-FUN | 3D Browse/ Vertical Curtain | T | Out of scope | V1 |
| ngEO-SUB-189-WEBC-FUN | Dataset selection by auto completion | T | NGEO-WEBC-VTC-0070 | V1 |
| ngEO-SUB-201-WEBC-OPE | Browsers' accessibility | T | NGEO-WEBC-VTC-0010 | V1 |
| ngEO-SUB-202-WEBC-OPE | OS accessibility | R | N/A | V1 |
| ngEO-SUB-203-WEBC-OPE | GUI customisation | R | N/A | V1 |
| ngEO-SUB-204-WEBC-OPE | Plug-in | R | N/A | V1 |
| ngEO-SUB-205-WEBC-OPE | Date | R | N/A | V1 |
| ngEO-SUB-206-WEBC-OPE | Configuration | R | N/A | V1 |
| ngEO-SUB-207-WEBC-OPE | URLs length | R | N/A | V1 |
| ngEO-SUB-215-WEBC-OPE | "Skinnable" GUI | R | N/A | V1 |
| ngEO-SUB-301-WEBC-INT | Web server | D | N/A | V1-V2 |
| ngEO-SUB-302-WEBC-INT | Product facility | T | NGEO-WEBC-VTC-0150 | V1 |
| ngEO-SUB-303-WEBC-INT | WMTS interface | T | NGEO-WEBC-VTC-0060 | V1 |
| ngEO-SUB-304-WEBC-INT | WFS interface | T | NGEO-WEBC-VTC-0095 | V1 |
| ngEO-SUB-305-WEBC-INT | Web services interface | T | NGEO-WEBC-VTC-0224 | V1 |
| ngEO-SUB-306-WEBC-INT | Device's local file system | T | NGEO-WEBC-VTC-0190  NGEO-WEBC-VTC-0230 | V1 |
| ngEO-SUB-401-WEBC-RAM | Operational life | R | N/A | V1 |
| ngEO-SUB-402-WEBC-RAM | Availability | R | N/A | V1 |
| ngEO-SUB-701-WEBC-PER | Response time | D | N/A | V1 |
| ngEO-SUB-703-WEBC-PER | Datasets | T | TBD for V2 | V2 |
| ngEO-SUB-704-WEBC-PER | Shopcarts | T | TBD for V2 | V2 |
| ngEO-SUB-705-WEBC-PER | Web Client loading | D | NGEO-WEBC-VTC-0015 | V1 |
| ngEO-SUB-800-WEBC-TVA | Web Server simulator | T | NGEO-WEBC-VTC-0010 | V1 |

## Test cases to requirements

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| **Test Casse** | **Test Case Title** | **SSRD-WC Requirement ID** |
| NGEO-WEBC-VTC-0010 | Installation of Web Client and home page check | ngEO-SUB-001-WEBC-DES  ngEO-SUB-002-WEBC-DES  ngEO-SUB-015-WEBC-DES  ngEO-SUB-101-WEBC-FUN  ngEO-SUB-105-WEBC-FUN  ngEO-SUB-800-WEBC-TVA  ngEO-SUB-201-WEBC-OPE  ngEO-SUB-705-WEBC-PER |
| NGEO-WEBC-VTC-0020 | Dataset selection | ngEO-SUB-103-WEBC-FUN  ngEO-SUB-111-WEBC-FUN  ngEO-SUB-113-WEBC-FUN  ngEO-SUB-114-WEBC-FUN |
| NGEO-WEBC-VTC-0030 | Simple search formulation | ngEO-SUB-102-WEBC-FUN  ngEO-SUB-124-WEBC-FUN  ngEO-SUB-128-WEBC-FUN |
| NGEO-WEBC-VTC-0040 | Search results in a table | ngEO-SUB-028-WEBC-DES  ngEO-SUB-137-WEBC-FUN  ngEO-SUB-138-WEBC-FUN  ngEO-SUB-139-WEBC-FUN  ngEO-SUB-140-WEBC-FUN |
| NGEO-WEBC-VTC-0050 | Search results on the map | ngEO-SUB-030-WEBC-DES  ngEO-SUB-034-WEBC-DES  ngEO-SUB-141-WEBC-FUN |
| NGEO-WEBC-VTC-0060 | Browse visualization | ngEO-SUB-033-WEBC-DES  ngEO-SUB-034-WEBC-DES  ngEO-SUB-143-WEBC-FUN  ngEO-SUB-303-WEBC-INT |
| NGEO-WEBC-VTC-0070 | Filtered dataset selection | ngEO-SUB-112-WEBC-FUN  ngEO-SUB-189-WEBC-FUN |
| NGEO-WEBC-VTC-0080 | Searching with a URL | ngEO-SUB-014-WEBC-DES  ngEO-SUB-048-WEBC-DES  ngEO-SUB-049-WEBC-DES  ngEO-SUB-131-WEBC-FUN  ngEO-SUB-132-WEBC-FUN  ngEO-SUB-133-WEBC-FUN |
| NGEO-WEBC-VTC-0090 | Map background | ngEO-SUB-022-WEBC-DES  ngEO-SUB-036-WEBC-DES  ngEO-SUB-104-WEBC-FUN  ngEO-SUB-115-WEBC-FUN |
| NGEO-WEBC-VTC-0095 | Map data layers | ngEO-SUB-031-WEBC-DES  ngEO-SUB-035-WEBC-DES  ngEO-SUB-106-WEBC-FUN  ngEO-SUB-110-WEBC-FUN  ngEO-SUB-304-WEBC-INT |
| NGEO-WEBC-VTC-0100 | Map navigation and selection | ngEO-SUB-109-WEBC-FUN  ngEO-SUB-107-WEBC-FUN |
| NGEO-WEBC-VTC-0110 | Simple data access request | ngEO-SUB-102-WEBC-FUN  ngEO-SUB-152-WEBC-FUN  ngEO-SUB-149-WEBC-FUN  ngEO-SUB-155-WEBC-FUN  ngEO-SUB-159-WEBC-FUN  ngEO-SUB-160-WEBC-FUN  ngEO-SUB-169-WEBC-FUN  ngEO-SUB-170-WEBC-FUN |
| NGEO-WEBC-VTC-0120 | Standing order data access request | ngEO-SUB-050-WEBC-DES  ngEO-SUB-159-WEBC-FUN  ngEO-SUB-163-WEBC-FUN  ngEO-SUB-164-WEBC-FUN |
| NGEO-WEBC-VTC-0130 | Download Manager Monitoring | ngEO-SUB-168-WEBC-FUN  ngEO-SUB-175-WEBC-FUN  ngEO-SUB-187-WEBC-FUN |
| NGEO-WEBC-VTC-0131 | Download Manager Monitoring : No download managers | ngEO-SUB-168-WEBC-FUN  ngEO-SUB-175-WEBC-FUN |
| NGEO-WEBC-VTC-0140 | Data Access Requests Monitoring | ngEO-SUB-157-WEBC-FUN  ngEO-SUB-165-WEBC-FUN  ngEO-SUB-167-WEBC-FUN  ngEO-SUB-168-WEBC-FUN  ngEO-SUB-175-WEBC-FUN |
| NGEO-WEBC-VTC-0150 | Direct Download | ngEO-SUB-038-WEBC-DES  ngEO-SUB-102-WEBC-FUN  ngEO-SUB-158-WEBC-FUN  ngEO-SUB-302-WEBC-INT |
| NGEO-WEBC-VTC-0151 | Direct Download When no download managers registered | ngEO-SUB-038-WEBC-DES  ngEO-SUB-158-WEBC-FUN |
| NGEO-WEBC-VTC-0160 | Advanced search criteria | ngEO-SUB-026-WEBC-DES  ngEO-SUB-122-WEBC-FUN  ngEO-SUB-123-WEBC-FUN  ngEO-SUB-124-WEBC-FUN |
| NGEO-WEBC-VTC-0165 | Advanced search criteria updated with dataset changes | ngEO-SUB-116-WEBC-FUN  ngEO-SUB-121-WEBC-FUN  ngEO-SUB-132-WEBC-FUN |
| NGEO-WEBC-VTC-0170 | Download options | ngEO-SUB-026-WEBC-DES  ngEO-SUB-130-WEBC-FUN |
| NGEO-WEBC-VTC-0173 | Download options update from result table | ngEO-SUB-148-WEBC-FUN |
| NGEO-WEBC-VTC-0175 | Download options update with the selected dataset | ngEO-SUB-121-WEBC-FUN |
| NGEO-WEBC-VTC-0180 | Help | ngEO-SUB-183-WEBC-FUN  ngEO-SUB-185-WEBC-FUN  ngEO-SUB-184-WEBC-FUN |
| NGEO-WEBC-VTC-0190 | Import | ngEO-SUB-061-WEBC-DES  ngEO-SUB-108-WEBC-FUN  ngEO-SUB-306-WEBC-INT |
| NGEO-WEBC-VTC-0200 | Search Shared URL | ngEO-SUB-013-WEBC-DES  ngEO-SUB-177-WEBC-FUN |
| NGEO-WEBC-VTC-0210 | Data-driven Standing Order Shared URL | ngEO-SUB-013-WEBC-DES  ngEO-SUB-177-WEBC-FUN |
| NGEO-WEBC-VTC-0215 | Time-driven Standing Order Shared URL | ngEO-SUB-013-WEBC-DES  ngEO-SUB-177-WEBC-FUN |
| NGEO-WEBC-VTC-0220 | Zone of interest : draw | ngEO-SUB-126-WEBC-FUN  ngEO-SUB-108-WEBC-FUN |
| NGEO-WEBC-VTC-0224 | Zone of interest : gazetteer | ngEO-SUB-037-WEBC-DES  ngEO-SUB-126-WEBC-FUN  ngEO-SUB-108-WEBC-FUN |
| NGEO-WEBC-VTC-0228 | Zone of interest : manual polygon | ngEO-SUB-126-WEBC-FUN  ngEO-SUB-108-WEBC-FUN |
| NGEO-WEBC-VTC-0230 | Export | ngEO-SUB-063-WEBC-DES  ngEO-SUB-306-WEBC-INT |
| NGEO-WEBC-VTC-0240 | Time Slider | ngEO-SUB-129-WEBC-FUN |
| NGEO-WEBC-VTC-0250 | User Preferences | ngEO-SUB-168-WEBC-FUN |
| NGEO-WEBC-VTC-0260 | Inquiries | ngEO-SUB-181-WEBC-FUN  ngEO-SUB-182-WEBC-FUN |

## Test cases to procedures

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| **Test Case** | **Test Case Title** | **Test procedures** |
| NGEO-WEBC-VTC-0010 | Installation of Web Client and home page check | NGEO-WEBC-VTP-0010  NGEO-WEBC-VTP-0015 |
| NGEO-WEBC-VTC-0020 | Dataset selection | NGEO-WEBC-VTP-0020 |
| NGEO-WEBC-VTC-0030 | Simple search formulation | NGEO-WEBC-VTP-0030 |
| NGEO-WEBC-VTC-0040 | Search results in a table | NGEO-WEBC-VTP-0040 |
| NGEO-WEBC-VTC-0050 | Search results on the map | NGEO-WEBC-VTP-0050 |
| NGEO-WEBC-VTC-0060 | Browse visualization | NGEO-WEBC-VTP-0060 |
| NGEO-WEBC-VTC-0070 | Filtered dataset selection | NGEO-WEBC-VTP-0070 |
| NGEO-WEBC-VTC-0080 | Searching with a URL | NGEO-WEBC-VTP-0080 |
| NGEO-WEBC-VTC-0090 | Map background | NGEO-WEBC-VTP-0090 |
| NGEO-WEBC-VTC-0095 | Map data layers | NGEO-WEBC-VTP-0095 |
| NGEO-WEBC-VTC-0100 | Map navigation and selection | NGEO-WEBC-VTP-0100 |
| NGEO-WEBC-VTC-0110 | Simple data access request | NGEO-WEBC-VTP-0110  NGEO-WEBC-VTP-0115 |
| NGEO-WEBC-VTC-0120 | Standing order data access request | NGEO-WEBC-VTP-0120  NGEO-WEBC-VTP-0125 |
| NGEO-WEBC-VTC-0130 | Download Manager Monitoring | NGEO-WEBC-VTP-0130 |
| NGEO-WEBC-VTC-0131 | Download Manager Monitoring : No download managers | NGEO-WEBC-VTP-0131 |
| NGEO-WEBC-VTC-0140 | Data Access Requests Monitoring | NGEO-WEBC-VTP-0140 |
| NGEO-WEBC-VTC-0150 | Direct Download | NGEO-WEBC-VTP-0150 |
| NGEO-WEBC-VTC-0151 | Direct Download When no download managers registered | NGEO-WEBC-VTP-0151 |
| NGEO-WEBC-VTC-0160 | Advanced search criteria | NGEO-WEBC-VTP-0160 |
| NGEO-WEBC-VTC-0165 | Advanced search criteria updated with dataset changes | NGEO-WEBC-VTP-0165 |
| NGEO-WEBC-VTC-0170 | Download options | NGEO-WEBC-VTP-0170 |
| NGEO-WEBC-VTC-0173 | Download options update from result table | NGEO-WEBC-VTP-0173 |
| NGEO-WEBC-VTC-0175 | Download options update with the selected dataset | NGEO-WEBC-VTP-0175 |
| NGEO-WEBC-VTC-0180 | Help | NGEO-WEBC-VTP-0180 |
| NGEO-WEBC-VTC-0190 | Import | NGEO-WEBC-VTP-0190 |
| NGEO-WEBC-VTC-0200 | Search Shared URL | NGEO-WEBC-VTP-0200 |
| NGEO-WEBC-VTC-0210 | Data-driven Standing Order Shared URL | NGEO-WEBC-VTP-0210 |
| NGEO-WEBC-VTC-0215 | Time-driven Standing Order Shared URL | NGEO-WEBC-VTP-0215 |
| NGEO-WEBC-VTC-0220 | Zone of interest : draw | NGEO-WEBC-VTP-0220 |
| NGEO-WEBC-VTC-0224 | Zone of interest : gazetteer | NGEO-WEBC-VTP-0224 |
| NGEO-WEBC-VTC-0228 | Zone of interest : manual polygon | NGEO-WEBC-VTP-0228 |
| NGEO-WEBC-VTC-0230 | Export | NGEO-WEBC-VTP-0230 |
| NGEO-WEBC-VTC-0240 | Time Slider | NGEO-WEBC-VTP-0240 |
| NGEO-WEBC-VTC-0250 | User Preferences | NGEO-WEBC-VTP-0250 |
| NGEO-WEBC-VTC-0260 | Inquiries | NGEO-WEBC-VTP-0260 |

## Interfaces to Test Cases

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| **Interface** | **Role** | **Test Cases** |
| IF-ngEO-WebClientConfigurationData | retrieve the client own configuration data | NGEO-WEBC-VTC-0015 |
| IF-ngEO-DatasetPopulationMatrix | Get the list of datsets and their related criteria. | NGEO-WEBC-VTC-0020 |
| IF-ngEO-DatasetSearchInfo | Get the information deatils of a dataset: download options, search criteria, start, stop dates. | NGEO-WEBC-VTC-0160  NGEO-WEBC-VTC-0165  NGEO-WEBC-VTC-0170  NGEO-WEBC-VTC-0173  NGEO-WEBC-VTC-0175 |
| IF-ngEO-UserDlManagersConfigData | Get the list of download managers and their information details. | NGEO-WEBC-VTC-0110  NGEO-WEBC-VTC-0120  NGEO-WEBC-VTC-0125 NGEO-WEBC-VTC-0130 |
| IF-ngEO-DownloadManagerChange | Change the status of a download manager | NGEO-WEBC-VTC-0130 |
| IF-ngEO-DataAccessRequest | Submit data access requests either simple or standing order requests | NGEO-WEBC-VTC-0110  NGEO-WEBC-VTC-0115  NGEO-WEBC-VTC-0120  NGEO-WEBC-VPC-0125  NGEO-WEBC-VTC-0126 |
| IF-ngEO-DataAccessRequestStatus | Interface used by the Web Client to monitor / change the status of data access request | NGEO-WEBC-VTC-0140 |
| IF-ngEO-DownloadHelper | This interface allows a Web Client to safely trigger a local Download Manager as an helper application, regardless of the format of the product URI. | NGEO-WEBC-VTC-0150 |
| IF-ngEO-CatalogueSearch |  | NGEO-WEBC-VTC-0040  NGEO-WEBC-VTC-0050 |

END OF DOCUMENT