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 |
| 0.4 | 19/11/2012 | 42 | NGEO-WEBC-VTP-0040: navigation between result pages is added (NGEOD-124)  NGEO-WEBC-VTP-0010: refer to IOM (NGEOD-121)  NGEO-WEBC-VTC-0060: add test procedure for each map mode (2D/3D). (NGEOD-126)  NGEO-WEBC-VTC-0060: add test for different map background NGEOD-127  NGEO-WEBC-VTC-0060: some refinments on the location  Software overwiew is added (NGEOD-158)  NGEO-WEBC-VTP-015 : add a test case procedure to check home page (NGEOD-129)  Add traceability matrixes (NGEOD-128) |
| 0.5 | 20/12/2012 | 44 | NGEO-WEBC-VTC-0010 : add a check for ngEO-SUB-105-WEBC-FUN  Add test cases for sprint 3 |

TABLE OF CONTENTS

1. Introduction 7

1.1 Purpose 7

1.2 Scope 7

2. Applicable and Reference Documents 8

2.1 Applicable Documents 8

2.2 Reference Documents 8

3. Terms, Definitions and Abbreviated Terms 9

3.1 Definitions 9

3.2 Acronyms 9

4. Software overview 10

5. Software Unit Testing and Software Integration Testing 11

5.1 General 11

5.1.1 Organization 11

5.1.2 Master Schedule 11

5.1.3 Resource Summary 11

5.1.4 Responsibilities 11

5.1.5 Tools, Techniques and Methods 11

5.1.6 Personnel and Personnel Training Requirements 11

5.1.7 Risks and Contingencies 11

5.2 Control Procedures for Software Unit Testing/Integration testing 12

5.3 Software Unit Testing and Integration testing Approach 13

5.3.1 Unit/Integration Testing Strategy 13

5.3.2 Tasks and Items under Test 13

5.3.3 Features to be Tested 13

5.3.4 Features not to be Tested 13

5.3.5 Test Pass – Fail Criteria 13

5.3.6 Manually and Automatically Generated Code 13

5.4 Software Unit Test / Integration Test Design 14

5.4.1 General 14

5.4.2 Organization of Each Identified test Design 14

5.4.2.1 Test design Identifier 14

5.4.2.2 Features to be tested 14

5.4.2.3 Approach Refinements 14

5.4.2.4 Test Case Identifier 14

5.5 Software Unit and Integration Test Case Specification 15

5.5.1 General 15

5.5.2 Organization of Each Identified Test Case 15

5.5.2.1 Test Case Identifier 15

5.5.2.2 Test Items 15

5.5.2.3 Inputs Specification 15

5.5.2.4 Outputs Specification 15

5.5.2.5 Test Pass – Fail Criteria 15

5.5.2.6 Environmental Needs 15

5.5.2.7 Special procedural constraints (ECSS-Q-ST-80 clause 6.3.5.25) 15

5.5.2.8 Interfaces dependencies 15

5.5.2.9 Test script 15

5.6 Software Unit and Integration Test Procedures Specification 16

5.6.1 General 16

5.6.2 Organization of Each Identified Test Procedure 16

5.6.2.1 Test Procedures Identifier 16

5.6.2.2 Purpose 16

5.6.2.3 Procedure Steps 16

6. Software Validation Specification 17

6.1 Software Validation Approach 17

6.1.1 Task and criteria 17

6.1.2 Features to be tested 17

6.1.3 Features not to be tested 17

6.1.4 Test pass - fail criteria 17

6.1.5 Items that cannot be validated by test 18

6.2 Software Validation Testing Specification Design 19

6.2.1 General 19

6.2.2 NGEO-WEBC-VTD-0010: Installation of Web Client and home page check 19

6.2.3 NGEO-WEBC-VTD-0020: Dataset selection 19

6.2.4 NGEO-WEBC-VTD-0030: Simple search formulation 20

6.2.5 NGEO-WEBC-VTD-0040: Search results in a table 20

6.2.6 NGEO-WEBC-VTD-0050: Search results on the map 20

6.2.7 NGEO-WEBC-VTD-0060: Browse visualization 21

6.2.8 NGEO-WEBC-VTD-0070: Filtered dataset selection 21

6.2.9 NGEO-WEBC-VTD-0080: Searching with a URL 21

6.2.10 NGEO-WEBC-VTD-0090: Map layers management 21

6.2.11 NGEO-WEBC-VTD-0100: Map navigation and selection 22

6.2.12 NGEO-WEBC-VTD-0110: Simple DATA ACCESS REQUEST 22

6.3 Software Validation Test Case Specification 22

6.3.1 General 23

6.3.2 NGEO-WEBC-VTC-0010: Installation of Web Client and home page check 23

6.3.3 NGEO-WEBC-VTC-0020: Dataset selection 23

6.3.4 NGEO-WEBC-VTC-0030: Simple Search formulation 24

6.3.5 NGEO-WEBC-VTC-0040: Search results in a table 24

6.3.6 NGEO-WEBC-VTC-0050: Search Results on the map 25

6.3.7 NGEO-WEBC-VTC-0060: browse visualization 25

6.3.8 NGEO-WEBC-VTC-0070: Filtered dataset selection 27

6.3.9 NGEO-WEBC-VTC-0080: Searching with a URL 27

6.3.10 NGEO-WEBC-VTC-0090: Map background 27

6.3.11 NGEO-WEBC-VTC-0095: Map data layers 28

6.3.12 NGEO-WEBC-VTC-0100: Map navigation and selection 28

6.3.13 NGEO-WEBC-VTC-0110: Simple data access request 29

6.4 Software Validation Test Procedures 29

6.4.1 General 29

6.4.2 NGEO-WEBC-VTP-0010: Installation of Web Client 29

6.4.3 NGEO-WEBC-VTP-0015: Home page check 30

6.4.4 NGEO-WEBC-VTP-0020: Dataset selection 30

6.4.5 NGEO-WEBC-VTP-0030: Simple Search Formulation 31

6.4.6 NGEO-WEBC-VTP-0040: Search results in a table 31

6.4.7 NGEO-WEBC-VTP-0050: Search results in the map 32

6.4.8 NGEO-WEBC-VTP-0060: Browse visualization 34

6.4.9 NGEO-WEBC-VTP-0070: Filtered dataset selection 35

6.4.10 NGEO-WEBC-VTP-0080: Searching with a url 35

6.4.11 NGEO-WEBC-VTP-0090: Map background 36

6.4.12 NGEO-WEBC-VTP-0095: Map data layers 37

6.4.13 NGEO-WEBC-VTP-0100: Map navigation and selection 37

6.4.14 NGEO-WEBC-VTP-0110: Simple Data Access Request 38

6.4.15 NGEO-WEBC-VTP-0111: Simple Data Access Request: No Download Manager Selected 39

6.4.16 NGEO-WEBC-VTP-0112: Simple Data Access Request: No Download Manager Registred 40

6.5 Software Validation Analysis, Inspection, Review of Design 41

6.6 Validation Test Platform Requirements 42

7. Software Test plan Additional information 43

7.1 Requirements to Test/Analysis/Inspection/Review 43

7.2 Test design to requirements 48

Test design to procedures 48

7.3 48

list of tables and figures

Table 2‑1 Applicable Documents 7

Table 2‑2 Reference Documents 7

Table 3‑1 Definitions 8

Table 3‑2 Acronyms 8

**No table of figures entries found.**

# 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 |

## 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: Terradue server.

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

TBC for CDR

a. This section shall contain information (or reference to) about applicable management procedures concerning the following aspects:

1. problem reporting and resolution;

2. deviation and waiver policy;

3. control procedures.

## Software Unit Testing and Integration testing Approach

TBC for CDR

NOTE This section describes the approach to be utilized for the software unit testing and integration testing, detailed as follows.

### Unit/Integration Testing Strategy

a. This section shall describe the software integration strategy

### Tasks and Items under Test

1. This section shall describe which are the tasks and the items under tests, as well as criteria to be utilized

### Features to be Tested

a. This section shall describe all the features to be tested, making references to the applicable documentation.

### Features not to be Tested

a. This section shall describe all the features and significant combinations not to be tested.

### Test Pass – Fail Criteria

a. This section shall describe the general criteria to be used to determine whether or not test are passed.

### Manually and Automatically Generated Code

a. This section shall address separately the activities to be performed for manually and automatically generated code, although they have the same objective (ECSS-Q-ST-80 clause 6.2.8.2 and 6.2.8.7).

## Software Unit Test / Integration Test Design

TBC for CDR

### General

a. This section shall provide the definition of unit and integration test design.

b. For each identified test design, this section shall provide the information given in <8.2>

NOTE This can be simplified in the software unit test plan.

### Organization of Each Identified test Design

a. This section shall identify each test design uniquely.

b. This section shall briefly describe the test design.

#### Test design Identifier

a. This section shall identify each test design uniquely.

b. This section shall briefly describe the test design.

#### Features to be tested

a. This section shall list the test items and describe the features to be tested.

b. Reference to appropriate documentation shall be made and traceability information shall be provided.

#### Approach Refinements

a. This section shall describe the test approach implemented for the specific test design and the specific test class.

b. The description specified in a. shall provide the rationale for the test case selection and grouping into test procedures.

c. The method for analysing test results shall be identified (e.g. compare with expected output).

d. Configuration of the facility (both hardware and software) to be used to execute the identified test shall be described.

#### Test Case Identifier

a. This section shall list the test cases associated with the test design and provide a summary description of each ones.

## Software Unit and Integration Test Case Specification

TBC for CDR

### General

a. This section shall provide an identification of software unit test and integration test cases.

b. For each identified test case, this section shall provide the information given in <9.2>.

NOTE Each test case can be described through one or several description sheets.

### Organization of Each Identified Test Case

NOTE This section provides the definition of each unit and integration test case, detailed as follows.

#### Test Case Identifier

a. This section shall identify the test case uniquely.

b. A short description of the test case purpose shall be provided.

#### Test Items

1. This section shall list the test items.
2. Reference to appropriate documentation shall be performed and traceability information shall be provided.

#### Inputs Specification

a. This section shall describe the inputs to execute the test case.

#### Outputs Specification

a. This section shall describe the expected outputs.

#### Test Pass – Fail Criteria

a. This section shall list the criteria to decide whether the test has passed or failed.

#### Environmental Needs

a. This section shall describe:

1. the exact configuration and the set-up of the facility used to execute the test case as well as the utilization of any special test equipment (e.g. bus analyser);

2. the configuration of the software utilized to support the test conduction (e.g. identification of the simulation configuration);

#### Special procedural constraints (ECSS-Q-ST-80 clause 6.3.5.25)

a. This section shall describe any special constraints on the used test procedures.

#### Interfaces dependencies

a. This section shall describe all the test cases to be executed before this test case.

#### Test script

a. This section shall describe all the test script used to execute the test case.

NOTE The test scripts can be collected in an appendix.

## Software Unit and Integration Test Procedures Specification

TBC for CDR

### General

a. This section shall provide an identification of software unit and integration test procedures.

b. For each identified test procedure, this section shall provide the information given in <10.2>.

### Organization of Each Identified Test Procedure

NOTE This section provides the definition of each unit and integration test procedure, detailed as follows.

#### Test Procedures Identifier

a. This section shall include a statement specifying the test procedure uniquely

#### Purpose

a. This section shall describe the purpose of this procedure.

b. A reference to each test case implemented by the test procedure shall be given.

#### Procedure Steps

a. This section shall describe every step of the procedure execution:

1. log: describe any special methods or format for logging the results of test execution, the incidents observed, and any other event pertinent to this test;

2. set up: describe the sequence of actions to set up the procedure execution;

3. start: describe the actions to begin the procedure execution;

4. proceed: describe the actions during the procedure execution;

5. test result acquisition: describe how the test measurements is made;

6. shut down: describe the action to suspend testing when interruption is forced by unscheduled events;

7. restart: identify any procedural restart points and describe the actions to restart the procedure at each of these points;

8. wrap up: describe the actions to terminate testing.

# 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..

## Software Validation Testing Specification Design

TBC IN SPRINTS 3 AND 4: ADD TEST DESIGNS OF SPRINTS 3 AND 4 REQUIREMENTS

### 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* |
| 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 on the Web Client* |
| 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 | | | |

## Software Validation Test Case Specification

TBC IN SPRINTS 3 AND 4: ADD TEST CASES OF SPRINTS 3 AND 4 REQUIREMENTS

### 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* |
| **Description and Objective** | | | | |
| *The design of this test deals with the installation on the system, the configuration and then start-up.* | | | | |
| **Inputs Specification** | | | | |
| RPM file : esa-webclient-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-0010* | | Open a browser at this URL: http://127.0.0.1, and check the interface is opened without errors. | | |
| *NGEO-WEBC-PFC-0011* | | Check that different services are available on the home page : Search, My Account. | | |
| *NGEO-WEBC-PFC-0012* | | 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 on the Web Client* |
| **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 search widget, select one of the available datasets and move to the search criteria page. | | |

### 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 can be selected and once the next button is pressed, 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 first received search 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.  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-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 missions, sensors and keywords filters. | | |

### 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-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* | |  | | |

### 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.* | | | | |
| **Constraints** | | | | |
| None | | | | |
| **Dependencies** | | | | |
| *NGEO-WEBC-VTC-0010*  *NGEO-WEBC-VTC-0040* | | | | |
| **Pass/Fail Criteria** | | | | |
| *NGEO-WEBC-PFC-0110* | |  | | |
| *NGEO-WEBC-PFC-0111* | | No download manager selected | | |
| *NGEO-WEBC-PFC-0112* | | No download manager registred | | |

### 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.* | | | | |
| **Constraints** | | | | |
| None | | | | |
| **Dependencies** | | | | |
| *NGEO-WEBC-VTC-0010*  *NGEO-WEBC-VTC-0030* | | | | |
| **Pass/Fail Criteria** | | | | |
| *NGEO-WEBC-PFC-0120* | | Submit data-driven standing order | | |
| *NGEO-WEBC-PFC-0121* | | Submit time-driven standing order | | |
| *NGEO-WEBC-PFC-0122* | | Submit data-driven standing order with changed download manager | | |

## Software Validation Test Procedures

TBC IN SPRINTS 3 AND 4: ADD TEST PROCEDURES OF SPRINTS 3 AND 4 REQUIREMENTS

### 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 | | |  | | *NGEO-WEBC-PFC-0010* |

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST PROCEDURE*** | | | | | | |
| **Test Identifier** | | *NGEO-WEBC-VTP-0010* | **Test Title** | | *Installation of Web Client* | |
| **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* | Click on the search button in the toolbar to open the search widget | | | A widget should open. | | *NGEO-WEBC-PFC-0011* |
| *Step 20* | Click on the My Account menu | | | A My Account page should open | | *NGEO-WEBC-PFC-0011* |
| *Step-30* | Check the background is a globe map centered at (0,0) | | |  | | *NGEO-WEBC-PFC-0012* |

### 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 “Search” button icon | | | The search widget is opened and the datasets available are displayed in a list. | |  |
| *Step-20* | Click on one of the datasets displayed | | | The chosen dataset is selected | |  |
| *Step-30* | Click on the “next” button | | | The search criteria page for the selected dataset is displayed on the search widget. The identifier of the selected dataset is mentioned in the search criteria page header. | | *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* | Launch the web client using the url : <http://ngeo-dev.terradue.com/> | | | The web client page is displayed. | |  |
| *Step-20* | Move to the chosen location 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 and the datasets available are displayed in a list. | |  |
| *Step-40* | Click on one of the datasets displayed | | | The chosen dataset is selected | |  |
| *Step-50* | Click on the “next” button | | | The search criteria page for the selected dataset is displayed on the search widget. The identifier of the selected dataset is mentioned in the search criteria page header.  The search criteria page has a start and end date widgets and an area widget. | |  |
| *Step-60* | Set the start and end dates using the calendar widget | | | The chosen dates are displayed. | |  |
| *Step-70* | Visualize the search area | | | The area location is actually the current map extent. | | *NGEO-WEBC-PFC-0030* |

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***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* | Launch the web client using the url : <http://ngeo-dev.terradue.com/> | | | The web client page is displayed. | |  |
| *Step-20* | Move to the chosen location 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 and the datasets available are displayed in a list. | |  |
| *Step-40* | Click on one of the datasets displayed | | | The chosen dataset is selected | |  |
| *Step-50* | Click on the “next” button | | | The search criteria page for the selected dataset is displayed on the search widget. The identifier of the selected dataset is mentioned in the search criteria page header.  The search criteria page has a start and end date widgets and an area widget. | |  |
| *Step-60* | Set the start and end dates using the calendar widget | | | The chosen dates are displayed. | |  |
| *Step-70* | Visualize the search area | | | The area location is actually the current map extent. | |  |
| *Step-80* | Press the search button | | | A "Searching" message should appear for a few seconds.  When the results are received, a widget should open with results presented in a table | | *NGEO-WEBC-PFC-0040* |
| *Step-90* | Press the next button of the table | | | New results should be displayed, page label should be updated. | | *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* | Launch the web client using the url : <http://ngeo-dev.terradue.com/> | | | The web client page is displayed. | |  |
| *Step-20* | Move to the chosen location 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 and the datasets available are displayed in a list. | |  |
| *Step-40* | Click on one of the datasets displayed | | | The chosen dataset is selected | |  |
| *Step-50* | Click on the “next” button | | | The search criteria page for the selected dataset is displayed on the search widget. The identifier of the selected dataset is mentioned in the search criteria page header.  The search criteria page has a start and end date widgets and an area widget. | |  |
| *Step-60* | Set the start and end dates using the calendar widget | | | The chosen dates are displayed. | |  |
| *Step-70* | Visualize the search area | | | The area location is actually the current map extent. | |  |
| *Step-80* | Press the search button | | | A "Searching" message should appear for a few seconds.  When the results are received, a widget should open with results presented in a table | |  |
| *Step-90* | Activate “Display footprints" button in the results widget. | | | The footprints are displayed 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* | Launch the web client using the url : <http://ngeo-dev.terradue.com/> | | | The web client page is displayed. | |  |
| *Step-20* | Move to the chosen location 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 and the datasets available are displayed in a list. | |  |
| *Step-40* | Click on one of the datasets displayed | | | The chosen dataset is selected | |  |
| *Step-50* | Click on the “next” button | | | The search criteria page for the selected dataset is displayed on the search widget. The identifier of the selected dataset is mentioned in the search criteria page header.  The search criteria page has a start and end date widgets and an area widget. | |  |
| *Step-60* | Set the start and end dates using the calendar widget | | | The chosen dates are displayed. | |  |
| *Step-70* | Visualize the search area | | | The area location is actually the current map extent. | |  |
| *Step-80* | Press the search button | | | A "Searching" message should appear for a few seconds.  When the results are received, a widget should open with results presented in a table | |  |
| *Step-90* | Click on a result, the map should zoom on the product, then activate "Browse display". | | | The browse layer displayed on the map at the location of the product footprint. | | *NGEO-WEBC-PFC-0060* |
| *Step-100* | Click on “Background” to change the map background. | | | The browse layer should be displayed on the map as above. | | *NGEO-WEBC-PFC-0060* |
| *Step-110* | 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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***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://ngeo-dev.terradue.com/> | | | The web client page is displayed. | |  |
| *Step-20* | On the toolbar, click on the “Search” button icon | | | The search 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. | |  |
| *Step-50* | Use the “Sensor” menu to select a sensor | | | The dataset displayed are filtered according to the chosen sensor. | |  |
| *Step-60* | Use the “Keyword” menu to select a keyword | | | The dataset displayed are filtered according to the chosen keyword. | | *NGEO-WEBC-PFC-0070* |

### 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* | Launch the web client using the url : <http://ngeo-dev.terradue.com/> | | | The web client page is displayed. | |  |
| *Step-20* | On the toolbar, click on the “Search” button icon | | | The search 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* | Click on the “next” button | | | The search criteria page for the selected dataset is displayed on the search widget. The identifier of the selected dataset is mentioned in the search criteria page header.  The search criteria page has a start and end date widgets and an area widget. | |  |
| *Step-50* | Set the start and end dates using the calendar widget | | | The chosen dates are displayed. | |  |
| *Step-60* | Click on the “Search url” button | | | A popup is spawn displaying the search url. | |  |
| *Step-70* | Select the URL and Copy it | | |  | |  |
| *Step-80* | Paste the search URL in another browser | | | The search results are returned | |  |
| *Step-90* | Check that the result is returned in GeoJSON format | | |  | | *NGEO-WEBC-PFC-0080* |

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***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://ngeo-dev.terradue.com/> | | | 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-0090* | **Test Title** | | *Map background* | |
|  | | | | | | |
| 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://ngeo-dev.terradue.com/> | | | 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* | Click on “Switch 2D/3D” button | | | The map is changed to 3D | |  |
| *Step-50* | Repeat Step-20 and Step-30 in 3D | | | Layer is displayed | | *NGEO-WEBC-PFC-0095* |

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***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. | |  |
| *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* | Click on “Switch 2D/3D” button | | | The map is changed to 3D | |  |
| *Step-50* | Repeat Step-20 and Step-30 in 3D | | | Layer is displayed | | *NGEO-WEBC-PFC-0095* |

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***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 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. | |  |
| *Step-40* | Select a download manager from the list by clicking on the radio button in next to the download manager name. | | | The chosen download manager is selected. | |  |
| *Step-50* | Click on the “Validate Your Request” button in order to post a data access request to the server for validation. | | | 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. | |  |
| *Step-60* | 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. | |  |
| *Step-60* | Click outside the download manager’s widget to return back to the results table. | | | The result’s table is displayed. | | *NGEO-WEBC-PFC-0110* |

### NGEO-WEBC-VTP-0111: Simple Data Access Request: No Download Manager Selected

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST PROCEDURE*** | | | | | | |
| **Test Identifier** | | *NGEO-WEBC-VTP-0111* | **Test Title** | | *Simple data access request no download manager selected* | |
|  | | | | | | |
| 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 is displayed, listing the available download managers, the number of selected products. | |  |
| *Step-40* | Click on the “Validate Your Request” button in order to post a data access request to the server for validation. | | | The message “Invalid Request: Please select a download manager first.” is displayed underneath the “Validate Your Request” button. | | *NGEO-WEBC-PFC-0111* |
| *Step-50* | Select a download manager from the list by clicking on the radio button in 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 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. | |  |
| *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. | |  |
| *Step-80* | Click outside the download manager’s widget to return back to the results table. | | | The result’s table is displayed. | | *NGEO-WEBC-PFC-0110* |

### NGEO-WEBC-VTP-0112: Simple Data Access Request: No Download Manager Registred

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST PROCEDURE*** | | | | | | |
| **Test Identifier** | | *NGEO-WEBC-VTP-0112* | **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-0112* |
| *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-VTP-0120: Standing Order Data Access Request: Data Driven Request

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***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 data-driven type is already checked. | |  |
| *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. | |  |
| *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”. | |  |
| *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-0120* |

### NGEO-WEBC-VTP-0121: Standing Order Data Access Request: Time Driven Request

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST PROCEDURE*** | | | | | | |
| **Test Identifier** | | *NGEO-WEBC-VTP-0121* | **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 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. | |  |
| *Step-40* | Enter 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. | |  |
| *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”. | |  |
| *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-0120* |

### NGEO-WEBC-VTP-0122: Standing Order Data Access Request: Data Driven Request with changed download manager

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***NGEO VALIDATION TEST PROCEDURE*** | | | | | | |
| **Test Identifier** | | *NGEO-WEBC-VTP-0122* | **Test Title** | | *Standing Order data access request: data driven request with changed download manager* | |
|  | | | | | | |
| 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 data-driven type is already checked. | |  |
| *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. | |  |
| *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”. | |  |
| *Step-50* | Select a download manager different from the one already used for the validation request. | | | The message “Invalid Confirmation Request: The selected download manager has been changed” | | *NGEO-WEBC-PFC-0122* |

## Software Validation Analysis, Inspection, Review of Design

TBC IN SPRINTS 3 AND 4

a. This section shall include, for each items where it can be justified that a test is not possible, another validation method based on analysis, inspection, review of design.

## Validation Test Platform Requirements

TBC for CDR

1. This section shall list the validation requirements related to the validation test platform to be used (for example, benches or simulators capabilities and their representatively with respect to e.g. real time constraints, target or real hardware equipments on which the software is specified to operate).

# Software Test plan Additional information

## Requirements to Test/Analysis/Inspection/Review

|  |  |  |  |
| --- | --- | --- | --- |
| **SSRD-WC Requirement ID** | **Requirement Title** | **Test** | **Test Design** |
| ngEO-SUB-001-WEBC-DES | Web user interface | D | NGEO-WEBC-VTC-0010 |
| ngEO-SUB-002-WEBC-DES | Web user interface | D | NGEO-WEBC-VTC-0010 |
| ngEO-SUB-004-WEBC-DES | Web Client Layout | D |  |
| ngEO-SUB-005-WEBC-DES | Widget Visibility | D |  |
| ngEO-SUB-008-WEBC-DES | Widget reset | D |  |
| ngEO-SUB-009-WEBC-DES | Widget communication | D |  |
| ngEO-SUB-013-WEBC-DES | Shared Web interface context | D |  |
| ngEO-SUB-014-WEBC-DES | Catalogue search | D | NGEO-WEBC-VTC-0080 |
| ngEO-SUB-015-WEBC-DES | Web Client Orientation Page | D |  |
| ngEO-SUB-016-WEBC-DES | Technology | R |  |
| ngEO-SUB-021-WEBC-DES | HTML5 Caching | R |  |
| ngEO-SUB-022-WEBC-DES | Map | T | NGEO-WEBC-VTC-0090 |
| ngEO-SUB-023-WEBC-DES | Map controls | D |  |
| ngEO-SUB-024-WEBC-DES | Web client implementations | D |  |
| ngEO-SUB-025-WEBC-DES | Multi-devices' considerations | D |  |
| ngEO-SUB-026-WEBC-DES | GUI widgets | R |  |
| ngEO-SUB-028-WEBC-DES | Product meta-data | R |  |
| ngEO-SUB-030-WEBC-DES | Product footprints | R | NGEO-WEBC-VTC-0050 |
| ngEO-SUB-031-WEBC-DES | Product footprints Display | R |  |
| ngEO-SUB-033-WEBC-DES | Browse display | R | NGEO-WEBC-VTC-0060 |
| ngEO-SUB-034-WEBC-DES | Footprint and browse selection | T | NGEO-WEBC-VTC-0050 NGEO-WEBC-VTC-0060 |
| ngEO-SUB-035-WEBC-DES | Overlay layers | T | NGEO-WEBC-VTC-0095 |
| ngEO-SUB-036-WEBC-DES | Background maps | R | NGEO-WEBC-VTC-0090 |
| ngEO-SUB-037-WEBC-DES | Gazetteers | R |  |
| ngEO-SUB-038-WEBC-DES | Direct Download | R |  |
| ngEO-SUB-039-WEBC-DES | Shopcarts | R |  |
| ngEO-SUB-040-WEBC-DES | Shopcarts URL | R |  |
| ngEO-SUB-041-WEBC-DES | Shared shopcarts | R |  |
| ngEO-SUB-042-WEBC-DES | Shared shopcarts Loading | R |  |
| ngEO-SUB-043-WEBC-DES | Groups of search results | R |  |
| ngEO-SUB-045-WEBC-DES | Groups of search results for correlation | R |  |
| ngEO-SUB-046-WEBC-DES | Groups of search results for interferometry | R |  |
| ngEO-SUB-048-WEBC-DES | Opensearch URL | R |  |
| ngEO-SUB-049-WEBC-DES | Opensearch URL Submitting | R |  |
| ngEO-SUB-050-WEBC-DES | Standing Order initialisation | R |  |
| ngEO-SUB-055-WEBC-DES | Authentication | R |  |
| ngEO-SUB-058-WEBC-DES | Initialisations | R |  |
| ngEO-SUB-060-WEBC-DES | Dataset Definition refresh | T |  |
| ngEO-SUB-061-WEBC-DES | Geographical Extent of the catalogue search | T |  |
| ngEO-SUB-062-WEBC-DES | File exchange for Shopcart | T |  |
| ngEO-SUB-063-WEBC-DES | File exchange | T |  |
| ngEO-SUB-101-WEBC-FUN | Web Client homepage | T |  |
| ngEO-SUB-102-WEBC-FUN | Data access services | T | NGEO-WEBC-VTC-0030 |
| ngEO-SUB-103-WEBC-FUN | Data access services area | T | NGEO-WEBC-VTC-0020 |
| ngEO-SUB-104-WEBC-FUN | Map mode | T | NGEO-WEBC-VTC-0090 |
| ngEO-SUB-105-WEBC-FUN | Default map mode | T | NGEO-WEBC-VTC-0010 |
| ngEO-SUB-106-WEBC-FUN | Map's enrichment | T | NGEO-WEBC-VTC-0095 |
| ngEO-SUB-107-WEBC-FUN | selection of item on map | T | NGEO-WEBC-VTC-0100 |
| ngEO-SUB-108-WEBC-FUN | zone of interest definition | T |  |
| ngEO-SUB-109-WEBC-FUN | Map's navigation and zooming | T | NGEO-WEBC-VTC-0100 |
| ngEO-SUB-110-WEBC-FUN | Map's layers management | T | NGEO-WEBC-VTC-0095 |
| ngEO-SUB-111-WEBC-FUN | Dataset Chooser | T | NGEO-WEBC-VTC-0020 |
| ngEO-SUB-112-WEBC-FUN | Dataset Chooser | T | NGEO-WEBC-VTC-0070 |
| ngEO-SUB-113-WEBC-FUN | Dataset selection | T | NGEO-WEBC-VTC-0020 |
| ngEO-SUB-114-WEBC-FUN | Dataset selection service | T | NGEO-WEBC-VTC-0020 |
| ngEO-SUB-115-WEBC-FUN | Default layers for the Map Widget | T | NGEO-WEBC-VTC-0090 |
| ngEO-SUB-116-WEBC-FUN | Dataset selection dynamic | T |  |
| ngEO-SUB-117-WEBC-FUN | Multiple searches | T |  |
| ngEO-SUB-118-WEBC-FUN | Multiple Dataset selection service | T |  |
| ngEO-SUB-119-WEBC-FUN | Interferometric search | T |  |
| ngEO-SUB-121-WEBC-FUN | Catalogue search | T |  |
| ngEO-SUB-122-WEBC-FUN | Search parameters | T |  |
| ngEO-SUB-123-WEBC-FUN | Search parameters | T |  |
| ngEO-SUB-124-WEBC-FUN | Catalogue search settings | T | NGEO-WEBC-VTC-0030 |
| ngEO-SUB-126-WEBC-FUN | Catalogue search: spatial criteria | T |  |
| ngEO-SUB-128-WEBC-FUN | Catalogue search: time extent | T | NGEO-WEBC-VTC-0030 |
| ngEO-SUB-129-WEBC-FUN | Catalogue search: time slider | T |  |
| ngEO-SUB-130-WEBC-FUN | Catalogue search: download options | T |  |
| ngEO-SUB-131-WEBC-FUN | Catalogue search: Opensearch query | T |  |
| ngEO-SUB-132-WEBC-FUN | Catalogue search: Opensearch query | T | NGEO-WEBC-VTC-0080 |
| ngEO-SUB-133-WEBC-FUN | Catalogue search: Use a pre-built Opensearch query | T |  |
| ngEO-SUB-134-WEBC-FUN | Correlation Search Activation | T |  |
| ngEO-SUB-135-WEBC-FUN | Correlation and Interferometric Search Criteria | T |  |
| ngEO-SUB-137-WEBC-FUN | Search results: pagination | T |  |
| ngEO-SUB-138-WEBC-FUN | Search results: pagination | T | NGEO-WEBC-VTC-0040 |
| ngEO-SUB-139-WEBC-FUN | Search results: result table | T |  |
| ngEO-SUB-140-WEBC-FUN | Search results: result table | T | NGEO-WEBC-VTC-0040 |
| ngEO-SUB-141-WEBC-FUN | Search results: result footprints | T | NGEO-WEBC-VTC-0050 |
| ngEO-SUB-142-WEBC-FUN | Search results: products group in search result | T |  |
| ngEO-SUB-143-WEBC-FUN | Search results: Browse images | T | NGEO-WEBC-VTC-0060 |
| ngEO-SUB-144-WEBC-FUN | Search results: Browse images | T |  |
| ngEO-SUB-145-WEBC-FUN | GANTT chart | T |  |
| ngEO-SUB-146-WEBC-FUN | GANTT chart | T |  |
| ngEO-SUB-147-WEBC-FUN | GANTT chart | T |  |
| ngEO-SUB-148-WEBC-FUN | Download options edition | T |  |
| ngEO-SUB-149-WEBC-FUN | Use of the search results | T |  |
| ngEO-SUB-150-WEBC-FUN | Search results: Transfer to shopcart | T |  |
| ngEO-SUB-152-WEBC-FUN | Search results: Data access request | T |  |
| ngEO-SUB-153-WEBC-FUN | Search results: Data access request | T |  |
| ngEO-SUB-155-WEBC-FUN | Search results: Planned products' exception | T |  |
| ngEO-SUB-156-WEBC-FUN | My Account: Shopcarts management | T |  |
| ngEO-SUB-157-WEBC-FUN | My Account: Data access requests management | T |  |
| ngEO-SUB-158-WEBC-FUN | Product direct download | T |  |
| ngEO-SUB-159-WEBC-FUN | Data access request types | T | NGEO-WEBC-VTC-0110 |
| ngEO-SUB-160-WEBC-FUN | Simple data access | T | NGEO-WEBC-VTC-0110 |
| ngEO-SUB-161-WEBC-FUN | Enhanced data access | T |  |
| ngEO-SUB-162-WEBC-FUN | Special Download Option Values | T |  |
| ngEO-SUB-163-WEBC-FUN | Standing order | T |  |
| ngEO-SUB-164-WEBC-FUN | Standing order Types | T |  |
| ngEO-SUB-165-WEBC-FUN | Standing order Pause/Resume | T |  |
| ngEO-SUB-166-WEBC-FUN | Standing order with processing | T |  |
| ngEO-SUB-167-WEBC-FUN | Data Access Requests and Standing Orders monitoring | T |  |
| ngEO-SUB-168-WEBC-FUN | My Account Handling | T |  |
| ngEO-SUB-169-WEBC-FUN | Assignment of a Data access request | T | NGEO-WEBC-VTC-0110  NGEO-WEBC-VTC-0115 |
| ngEO-SUB-170-WEBC-FUN | Estimated download Size | T | NGEO-WEBC-VTC-0110 |
| ngEO-SUB-175-WEBC-FUN | My Account functions | T |  |
| ngEO-SUB-176-WEBC-FUN | Sharing of shopcarts | T |  |
| ngEO-SUB-177-WEBC-FUN | Sharing of interface context | T |  |
| ngEO-SUB-179-WEBC-FUN | User Authorizations | T |  |
| ngEO-SUB-180-WEBC-FUN | User Categories | T |  |
| ngEO-SUB-181-WEBC-FUN | Inquiries | T |  |
| ngEO-SUB-182-WEBC-FUN | Inquiries Types | T |  |
| ngEO-SUB-183-WEBC-FUN | Help | T |  |
| ngEO-SUB-184-WEBC-FUN | Help chapters | T |  |
| ngEO-SUB-185-WEBC-FUN | Button description | T |  |
| ngEO-SUB-186-WEBC-FUN | DataSet Description | T |  |
| ngEO-SUB-187-WEBC-FUN | Useful links | T |  |
| ngEO-SUB-188-WEBC-FUN | 3D Browse/ Vertical Curtain | T |  |
| ngEO-SUB-189-WEBC-FUN | Dataset selection by auto completion | T |  |
| ngEO-SUB-201-WEBC-OPE | Browsers' accessibility | T |  |
| ngEO-SUB-202-WEBC-OPE | OS accessibility | R |  |
| ngEO-SUB-203-WEBC-OPE | GUI customisation | T |  |
| ngEO-SUB-204-WEBC-OPE | Plug-in | T |  |
| ngEO-SUB-205-WEBC-OPE | Date | D |  |
| ngEO-SUB-206-WEBC-OPE | Configuration | D |  |
| ngEO-SUB-207-WEBC-OPE | URLs length | R |  |
| ngEO-SUB-215-WEBC-OPE | "Skinnable" GUI | R |  |
| ngEO-SUB-301-WEBC-INT | Web server | R |  |
| ngEO-SUB-302-WEBC-INT | Product facility | R |  |
| ngEO-SUB-303-WEBC-INT | WMTS interface | R | NGEO-WEBC-VTC-0060 |
| ngEO-SUB-304-WEBC-INT | WFS interface | R | NGEO-WEBC-VTC-0095 |
| ngEO-SUB-305-WEBC-INT | Web services interface | R |  |
| ngEO-SUB-306-WEBC-INT | Device's local file system | R |  |
| ngEO-SUB-401-WEBC-RAM | Operational life | R |  |
| ngEO-SUB-402-WEBC-RAM | Availability | T |  |
| ngEO-SUB-701-WEBC-PER | Response time | T |  |
| ngEO-SUB-703-WEBC-PER | Datasets | T |  |
| ngEO-SUB-704-WEBC-PER | Shopcarts | T |  |
| ngEO-SUB-705-WEBC-PER | Web Client loading | T |  |
| ngEO-SUB-800-WEBC-TVA | Web Server simulator | D |  |
| ngEO-SYS-1000-WEBC-DES | Graphical Interface Purpose | D |  |
| ngEO-SYS-1005-WEBC-DES | Everything is a URL | D |  |
| ngEO-SYS-1010-WEBC-DES | Components of the Graphical Interface / HMI | D |  |
| ngEO-SYS-1012-WEBC-DES | Web Client Orientation Page | D |  |
| ngEO-SYS-1015-WEBC-DES | Accessed from a Web Browser | D |  |
| ngEO-SYS-1020-WEBC-DES | Graphical Presentation of Search Results | D |  |
| ngEO-SYS-1025-WEBC-DES | Support for Direct Download of Products | D |  |
| ngEO-SYS-1030-WEBC-DES | Support for Shopcarts | D |  |
| ngEO-SYS-1035-WEBC-DES | Support for Groups of Result Items | R |  |
| ngEO-SYS-1040-WEBC-DES | Exchange and Publication of ngEO Service Requests | R |  |
| ngEO-SYS-1045-WEBC-DES | Support for INSPIRE Guidelines | D |  |
| ngEO-SYS-1050-WEBC-DES | Web 2.0 Behaviour of the HMI | D |  |
| ngEO-SYS-1055-WEBC-DES | Protection of web client functions | D |  |
| ngEO-SYS-1100-WEBC-FUN | Access to all ngEO Data Access Services | D |  |
| ngEO-SYS-1102-WEBC-FUN | Web Client Homepage | R |  |
| ngEO-SYS-1105-WEBC-FUN | Dataset Chooser (Live Search) | R |  |
| ngEO-SYS-1110-WEBC-FUN | Multiple Dataset Selection | R |  |
| ngEO-SYS-1112-WEBC-FUN | Correlation Search Activation | R |  |
| ngEO-SYS-1113-WEBC-FUN | Correlation and Interferometric Search Criteria | R |  |
| ngEO-SYS-1115-WEBC-FUN | Configuration of Product Search | T |  |
| ngEO-SYS-1120-WEBC-FUN | Specific User Interface Widgets | T |  |
| ngEO-SYS-1122-WEBC-FUN | GANTT Widget | R |  |
| ngEO-SYS-1125-WEBC-FUN | Search Result Pagination | R |  |
| ngEO-SYS-1130-WEBC-FUN | Search Result Presentation | R |  |
| ngEO-SYS-1131-WEBC-FUN | Search URL | R |  |
| ngEO-SYS-1132-WEBC-FUN | Stading Order Sharing | R |  |
| ngEO-SYS-1135-WEBC-FUN | Browse Layer Handling | R |  |
| ngEO-SYS-1140-WEBC-FUN | Shop Cart Management | R |  |
| ngEO-SYS-1145-WEBC-FUN | Download and Processing Options | R |  |
| ngEO-SYS-1146-WEBC-FUN | Special Download Option Values | R |  |
| ngEO-SYS-1148-WEBC-FUN | Special Hosted Processing option | R |  |
| ngEO-SYS-1150-WEBC-FUN | My Account Handling | R |  |
| ngEO-SYS-1155-WEBC-FUN | Interaction with Local Filesystem | R |  |
| ngEO-SYS-1160-WEBC-FUN | Sharing of Shopcarts | R |  |
| ngEO-SYS-1165-WEBC-FUN | Support for Exogenous Geographic Layers | R |  |
| ngEO-SYS-1170-WEBC-FUN | Contextual Menus | R |  |
| ngEO-SYS-1175-WEBC-FUN | Registration Service | T |  |
| ngEO-SYS-1180-WEBC-FUN | Login | T |  |
| ngEO-SYS-1182-WEBC-FUN | Request for Upgraded Service | T |  |
| ngEO-SYS-1183-WEBC-FUN | Access to the Helpdesk Ticketing Service | T |  |
| ngEO-SYS-1185-WEBC-FUN | Map 2D/3D | T |  |
| ngEO-SYS-1187-WEBC-FUN | Default layers for the Map Widget | T |  |
| ngEO-SYS-1190-WEBC-FUN | Data Access Requests and Standing Orders | T |  |
| ngEO-SYS-1191-WEBC-FUN | Direct Download | T |  |
| ngEO-SYS-1192-WEBC-FUN | Data Access Requests and Standing Orders monitoring | T |  |
| ngEO-SYS-1195-WEBC-FUN | Link to Download Manager | T |  |
| ngEO-SYS-1200-WEBC-OPE | Behaviour of graphical interface elements | T |  |
| ngEO-SYS-1300-WEBC-INT | Interface with Web Server | T |  |
| ngEO-SYS-1700-WEBC-PER | Map Layer Refreshment | T |  |
| ngEO-SYS-1800-WEBC-TVA | Testing of Web Client without Web Server | T |  |

## Test design to requirements

|  |  |  |
| --- | --- | --- |
| **Test Design** | **Test Design Title** | **SSRD-WC Requirement ID** |
| NGEO-WEBC-VTD-0010 | Installation of Web Client and home page check | ngEO-SUB-001-WEBC-DES ngEO-SUB-002-WEBC-DES |
| NGEO-WEBC-VTD-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-VTD-0030 | Simple search formulation | ngEO-SUB-102-WEBC-FUN ngEO-SUB-124-WEBC-FUN ngEO-SUB-128-WEBC-FUN |
| NGEO-WEBC-VTD-0040 | Search results in a table | ngEO-SUB-138-WEBC-FUN ngEO-SUB-140-WEBC-FUN |
| NGEO-WEBC-VTD-0050 | Search results on the map | ngEO-SUB-030-WEBC-DES ngEO-SUB-033-WEBC-DES ngEO-SUB-034-WEBC-DES ngEO-SUB-141-WEBC-FUN ngEO-SUB-143-WEBC-FUN |
| NGEO-WEBC-VTD-0060 | Browse visualization | ngEO-SUB-033-WEBC-DES ngEO-SUB-034-WEBC-DES ngEO-SUB-303-WEBC-INT |
| NGEO-WEBC-VTD-0070 | Filtered dataset selection | ngEO-SUB-112-WEBC-FUN |
| NGEO-WEBC-VTD-0080 | Searching with a URL | ngEO-SUB-014-WEBC-DES ngEO-SUB-132-WEBC-FUN |
| NGEO-WEBC-VTD-0090 | Map layers management | ngEO-SUB-022-WEBC-DES ngEO-SUB-035-WEBC-DES  ngEO-SUB-036-WEBC-DES ngEO-SUB-104-WEBC-FUN  ngEO-SUB-106-WEBC-FUNngEO-SUB-110-WEBC-FUN  ngEO-SUB-304-WEBC-INT |
| NGEO-WEBC-VTD-0100 | Map navigation and selection | ngEO-SUB-109-WEBC-FUN ngEO-SUB-109-WEBC-FUN |
| NGEO-WEBC-VTD-0110 | Simple data access request | ngEO-SUB-159-WEBC-FUN ngEO-SUB-160-WEBC-FUN  ngEO-SUB-169-WEBC-FUN ngEO-SUB-170-WEBC-FUN |

## Test design to procedures

|  |  |  |
| --- | --- | --- |
| **Test Design** | **Test Design Title** | **Test procedures** |
| NGEO-WEBC-VTD-0010 | Installation of Web Client and home page check | NGEO-WEBC-VTP-0010 NGEO-WEBC-VTP-0015 |
| NGEO-WEBC-VTD-0020 | Dataset selection | NGEO-WEBC-VTP-0020 |
| NGEO-WEBC-VTD-0030 | Simple search formulation | NGEO-WEBC-VTP-0030 |
| NGEO-WEBC-VTD-0040 | Search results in a table | NGEO-WEBC-VTP-0040 |
| NGEO-WEBC-VTD-0050 | Search results on the map | NGEO-WEBC-VTP-0050 |
| NGEO-WEBC-VTD-0060 | Browse visualization | NGEO-WEBC-VTP-0060 |
| NGEO-WEBC-VTD-0070 | Filtered dataset selection | NGEO-WEBC-VTP-0070 |
| NGEO-WEBC-VTD-0080 | Searching with a URL | NGEO-WEBC-VTP-0080 |
| NGEO-WEBC-VTD-0090 | Map layers management | NGEO-WEBC-VTP-0090 NGEO-WEBC-VTP-0095 |
| NGEO-WEBC-VTD-0100 | Map navigation and selection | NGEO-WEBC-VTP-0100 |
| NGEO-WEBC-VTD-0110 | Simple data access request | NGEO-WEBC-VTP-0110 |

END OF DOCUMENT