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<b>RE</b>	Restricted to a group specified by the consortium (including the Commission Services)	
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Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

## CONTENTS

<b>1</b>	<b>INTRODUCTION .....</b>	<b>5</b>
1.1	PROJECT SCOPE .....	5
1.2	PURPOSE OF THE DOCUMENT .....	5
1.3	DOCUMENT VERSION SHEET .....	5
<b>2</b>	<b>REFERENCE DOCUMENTS, DEFINITIONS AND ABBREVIATIONS.....</b>	<b>6</b>
2.1	REFERENCE DOCUMENTS .....	6
2.2	DEFINITIONS .....	6
2.3	ABBREVIATIONS .....	8
<b>3</b>	<b>DOCUMENT OVERVIEW.....</b>	<b>9</b>
3.1	EXECUTIVE SUMMARY.....	9
3.2	DOCUMENT POSITION IN PROJECT ACTIVITIES .....	10
<b>4</b>	<b>TEST PLAN.....</b>	<b>11</b>
4.1	TEST METHODOLOGY .....	11
4.2	RESOURCE REQUIREMENTS .....	12
4.2.1	<i>Test Environment.....</i>	<i>12</i>
4.3	TESTING TASKS.....	12
4.4	TEST REPORT .....	12
<b>5</b>	<b>TEST PREPARATION.....</b>	<b>13</b>
5.1	TEST CASE DESIGN .....	13
5.1.1	<i>Detailed Test Case Design.....</i>	<i>13</i>
<b>6</b>	<b>UNIT TESTING.....</b>	<b>14</b>
6.1	ERAW UNIT TEST CASES.....	14
6.1.1	<i>TC-UL-ERAW-DMC-001: Data Management Check.....</i>	<i>14</i>
6.1.2	<i>TC-UL-ERAW-GAM-001: General Alert Management .....</i>	<i>15</i>
6.1.3	<i>TC-UL-ERAW-GAM-002: General Alert Management .....</i>	<i>15</i>
6.1.4	<i>TC-UL-ERAW-GAM-003: General Alert Management .....</i>	<i>16</i>
6.1.5	<i>TC-UL-ERAW-GAM-004: General Alert Management .....</i>	<i>16</i>
6.1.6	<i>TC-UL-ERAW-DSC-001: Data Sender Configuration .....</i>	<i>18</i>
6.1.7	<i>TC-UL-ERAW-DSC-002: Data Sender Configuration .....</i>	<i>18</i>
6.1.8	<i>TC-UL-ERAW-DSC-003: Data Sender Configuration .....</i>	<i>19</i>
6.1.9	<i>TC-UL-ERAW-DA-001: Data Acquisition.....</i>	<i>20</i>
6.1.10	<i>TC-UL-ERAW-DA-002: Data Acquisition.....</i>	<i>20</i>
6.1.11	<i>TC-UL-ERAW-DA-003: Data Acquisition.....</i>	<i>21</i>
6.1.12	<i>TC-UL-ERAW-EM -001: Event Management .....</i>	<i>22</i>
6.1.13	<i>TC-UL-ERAW-EM -002: Event Management .....</i>	<i>22</i>
6.1.14	<i>TC-UL-ERAW-EM -003: Event Management .....</i>	<i>23</i>
6.1.15	<i>TC-UL-ERAW-EM -004: Event Management .....</i>	<i>24</i>
6.1.16	<i>TC-UL-ERAW-EM -005: Event Management .....</i>	<i>24</i>
6.1.17	<i>TC-UL-ERAW-EM -006: Event Management .....</i>	<i>25</i>
6.1.18	<i>TC-UL-ERAW-MEM-001: Multirisk Event Management.....</i>	<i>26</i>
6.1.19	<i>TC-UL-ERAW-MEM -002: Multirisk Event Management.....</i>	<i>26</i>
6.1.20	<i>TC-UL-ERAW-MEM -003: Multirisk Event Management.....</i>	<i>27</i>

Project:	CHORIST	Deliv. ref.:	SP2.D5
EC contract:	033685	Deliv. title:	System Test Plan
		Deliv. version:	1.1
		Submission date:	15/10/09

6.1.21	TC-UL-ERAW-MEM -004: Multirisk Event Management.....	27
6.1.22	TC-UL-ERAW-MEM -005: Multirisk Event Management.....	28
6.2	ERAW UNIT TEST PROCEDURES.....	29
6.2.1	TP-UL-ERAW-DMC-001: Data Management Check.....	29
6.2.2	TP-UL-ERAW-GAM-001: General Alert Management .....	30
6.2.3	TP-UL-ERAW-GAM-002: General Alert Management .....	31
6.2.1	TP-UL-ERAW-GAM-003: General Alert Management .....	32
6.2.2	TP-UL-ERAW-GAM-004: General Alert Management .....	33
6.2.3	TP-UL-ERAW-DSC-001: Data Sender Configuration.....	34
6.2.4	TP-UL-ERAW-DSC-002: Data Sender Configuration.....	35
6.2.5	TP-UL-ERAW-DSC-003: Data Sender Configuration.....	36
6.2.6	TP-UL-ERAW-DA-001: Data Acquisition.....	37
6.2.7	TP-UL-ERAW-DA-002: Data Acquisition.....	38
6.2.8	TP-UL-ERAW-DA-003: Data Acquisition.....	39
6.2.9	TP-UL-ERAW-EM-001: Event Management .....	40
6.2.10	TP-UL-ERAW-EM-002: Event Management .....	41
6.2.11	TP-UL-ERAW-EM-003: Event Management .....	42
6.2.12	TP-UL-ERAW-EM-004: Event Management .....	43
6.2.13	TP-UL-ERAW-EM-005: Event Management .....	44
6.2.14	TP-UL-ERAW-EM-006: Event Management .....	45
6.2.15	TP-UL-ERAW-MEM-001: Multirisk Event Management.....	46
6.2.16	TP-UL-ERAW-MEM-002: Multirisk Event Management.....	47
6.2.17	TP-UL-ERAW-MEM-003: Multirisk Event Management.....	48
6.2.18	TP-UL-ERAW-MEM-004: Multirisk Event Management.....	49
6.2.19	TP-UL-ERAW-MEM-005: Multirisk Event Management.....	50
6.3	ERAS UNIT TEST CASES.....	51
6.3.1	TC-UL-ERAS-NBA-001: DB FF Neighbourhood Analysis.....	51
6.3.2	TC-UL-ERAS-NBA-002: DB HW Neighbourhood Analysis.....	51
6.3.3	TC-UL-ERAS-NBA-003: DB CH Neighbourhood Analysis.....	52
6.3.4	TC-UL-ERAS-SAN-001: Situation Analysis.....	53
6.4	ERAS UNIT TEST PROCEDURES.....	54
6.4.1	TP-UL-ERAS-FFNBA-001: DB FF Neighbourhood Analysis Local.....	54
6.4.2	TP-UL-ERAS-FFNBA-002: DB FF Neighbourhood Analysis Circle .....	55
6.4.3	TP-UL-ERAS-FFNBA-003: DB FF Neighbourhood Analysis Polygon .....	56
6.4.4	TP-UL-ERAS-HWNBA-001: DB HW Neighbourhood Analysis Local.....	57
6.4.5	TP-UL-ERAS-HWNBA-002: DB HW Neighbourhood Analysis Circle.....	58
6.4.6	TP-UL-ERAS-HWNBA-003: DB HW Neighbourhood Analysis Polygon .....	59
6.4.7	TP-UL-ERAS-CHNBA-001: DB CH Neighbourhood Analysis Local.....	60
6.4.8	TP-UL-ERAS-CHNBA-002: DB CH Neighbourhood Analysis Circle.....	61
6.4.9	TP-UL-ERAS-CHNBA-003: DB CH Neighbourhood Analysis Polygon.....	62
6.4.10	TP-UL-ERAS-SAN-001: Situation Analysis .....	63
6.5	MODELS UNIT TEST CASES .....	64
6.5.1	TC-UL-MOD-NBH-001: Neighbourhood Analysis .....	64
6.5.2	TC-UL-MOD-BU-001: High Wind Buffer Generation.....	64
6.5.3	TC-UL-MOD-FP-001: Flood Plain Generation.....	65
6.6	MODELS UNIT TEST PROCEDURES.....	65

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

6.6.1	TP-UL-MOD-NBH-001-PC01: Web Interface .....	65
6.6.2	TP-UL-MOD-BU-001-PC01: Web Interface.....	66
6.6.3	TP-UL-MOD-FP-001-PC01: Web Interface .....	66
<b>7</b>	<b>INTEGRATION TESTING.....</b>	<b>68</b>
7.1	INTEGRATION TEST CASES.....	68
7.1.1	TC-IL-ERAW-ERAS-GUI-001: ERAW-ERAS Interface .....	68
7.1.2	TC-IL-ERAW-ERAS-DATA-001: ERAW-ERAS Interface.....	68
7.1.3	TC-IL-TS-ERAW-TRAIN-001: TS-ERAS Interface .....	69
7.1.4	TC-IL-TS-ERAS-SP3-REP-001: TS-ERAS-SP3 Interface .....	69
7.2	INTEGRATION TEST PROCEDURES.....	70
7.2.1	TP-IL-ERAW-ERAS-GUI-001-PC01 .....	70
7.2.2	TP-IL-ERAW-ERAS-DATA-001-PC01.....	70
7.2.3	TP-IL-TS-ERAW-TRAIN-001-PC01.....	71
7.2.4	TP-IL-TS-ERAS-SP3-REP-001-PC01 .....	72
<b>8</b>	<b>SYSTEM TESTING .....</b>	<b>73</b>
8.1	SYSTEM TEST CASES .....	73
8.1.1	TC-IL-SP2-PROT-FF-001: Flash Flood.....	73
8.1.2	TC-IL-SP2-PROT-CH-001: Chemical Explosion .....	73
8.1.3	TC-IL-SP2-PROT-HW-001: High Winds.....	74
8.2	SYSTEM TEST PROCEDURES .....	74
8.2.1	TP-IL-SP2-PROT-FF-001-PC01: Flood.....	74
8.2.2	TP-IL-SP2-PROT-CH-001-PC01: High Winds .....	74
8.2.3	TP-IL-SP2-PROT-HW-001-PC01: Chemical Explosion .....	74
<b>9</b>	<b>APPENDIX .....</b>	<b>75</b>

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

# 1 INTRODUCTION

## 1.1 PROJECT SCOPE

The CHORIST project will propose solutions to increase rapidity and effectiveness of interventions following natural hazards and industrial accidents, in order to enhance citizens' safety and communications between rescue actors.

## 1.2 PURPOSE OF THE DOCUMENT

This document describes how the CHORIST (ERAW, ERAS and TS) software system will be tested to ensure that it performs as intended, and to improve its completeness, quality, reliability and maintainability.

## 1.3 DOCUMENT VERSION SHEET

Version	Date	Description, modifications, authors
V1.0.1	13-05-2008	Draft TOC for discussion - AVAN
V1.0.2	02-06-2008	Draft updated with comments from EDATA and JRC
V1.0.3	10-10-2008	Draft updated and circulated for contributions from EDATA and JRC
V1.0.4	29-10-2008	Draft updated by Joseph Muna – AVAN with comments from EDATA and circulated for further comments and contributions
V1.0.5	07-11-2008	Draft updated by Joseph Muna – AVAN, with contributions from Argenti Massimo – EDATA
V1.0.6	17-11-2008	Draft updated by Domenico Pannucci – EDATA, on sections 7, 8 and 9
V1.0.7	17-11-2008	Final draft circulated for last comments
V1.0.8	25-11-2008	Submitted for approval
V1.0	17-12-2008	Document approved
V 1.1	15-10-2009	Typos corrected & set to PUBLIC

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

## 2 REFERENCE DOCUMENTS, DEFINITIONS AND ABBREVIATIONS

### 2.1 REFERENCE DOCUMENTS

Table 1 - Reference and Applicable documents lists all the applicable and reference documents. Each document is marked as applicable (A) or referenced (R).

Reference	Document	Referenced (R) / Applicable (A)
[1]	CHORIST-General target design - v7	A
[2]	Report on user requirements and initial supporting cases- SP1.D4	A
[3]	System Specifications - SP1.D6	A
[4]	Report on system architecture – SP1.D8	A
[5]	ERAW and ERAS system definition and design – S2.D1	A
[6]	Report on demonstration trial definition (preliminary version) – SP5.D1	A
[7]	Report on demonstration trial definition (final version) – SP5.D2	A
[8]	Training System Test plan – SP2.D7	A
[9]	IEEE 829 Standard for Software Testing	R

**Table 1 - Reference and Applicable documents**

### 2.2 DEFINITIONS

Event:

An **Event**, in CHORIST, is the occurrence of a natural or human induced incident. An Event can have occurred or be forecasted. The description of an Event shall contain at least its nature, its extent and its occurrence time (future or passed).

Risk:

The **Risk** is the probability of harmful consequences, or expected loss (of lives, people injured, property, livelihood, economic activity disrupted or environment damaged) resulting from interactions between an Event and vulnerable / capable conditions.

The Risk for CHORIST is the combination of the Event, its probability of occurrence, and the severity of its impacts (in terms of populations and infrastructures affected). A Risk description contains impacts assessments over the time and mentioned the Event which causes the Risk.

Note: a Threat differs from a Risk in the sense that a threat is a very low-probability but serious Event which some analysts may be unable to assign a probability in a Risk assessment because it has never occurred, and for which no effective preventive measure (a step taken to reduce the probability or impact of a possible future Event) is available.

Alert:

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

An **Alert** is a signal to indicate a Risk whose probability has exceeded a predefined value.

In CHORIST, when an Alert is raised, it shall be linked to the associated Risk description.

#### Vulnerability Map:

The **Vulnerability Map** is a database that contains the geographical location of populations and infrastructures, together with their "value". It is used to evaluate the consequence of an Event in an area in terms of lost casualties or infrastructures destruction. For example, the Vulnerability Map would show that an Event that occurs in the desert is less serious than an Event which occurs in a dense residential area or in a chemical industry complex.

#### Situation:

The **Situation** of an area is the description of its state. It provides with information on what is different in the area compared to its usual state. The Situation can contain damages description, weather conditions, fire or flood extent, pollution description and extent...

#### Current Situation:

The **Current Situation** is the Situation in the present time.

#### Forecasted Situation:

The **Forecasted Situation** is the Situation that is expected in a specific future time.

#### Common Operational Picture (COP):

The **Common Operational Picture (COP)** is a single set of information, shared by all stakeholders of an Event and which contains all the relevant elements. A Common Operational Picture facilitates collaborative planning and assists all echelons to achieve situational awareness. For CHORIST, the COP comprises validated data about the Situation, the Events (forecasted or occurred), the Risks, the infrastructures and populations, the on field teams' location and means...

#### System Requirements:

The **System Requirements** are a transformation the users or stakeholders, needs-driven view of desired system services into a technical view of a required system product that could deliver those services. System Requirements specify, from the developer's perspective, what the system is required to do in order to satisfy stakeholder needs. The System Requirements are the basis for verifying the conformance of the supplied system.

Each System Requirement is unique, complete, unambiguous, consistent with all other requirements, implementable and verifiable. System Requirements are consistent, achievable (given current technologies or knowledge of technological advances) and expressed at an appropriate level of detail. They are a necessary and sufficient response to User Requirements and a necessary and sufficient input to other processes, in particular architectural design and sub-system design.

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

#### System Architecture:

The **System Architecture** is the result of the partition of system functions identified in the System Requirements into an implementable set of subsystems elements, which means a set of separate problems of manageable, conceptual and, ultimately, realizable proportions. The System Architecture is the description of the sub-systems and their interfaces.

#### System Specification:

The **System Specification** is the activity of specifying what the system does. This activity's result are the System Requirements.

**System Specification** is also the name of the SP1.D6 document which contains the System Requirements.

#### System Design:

The **System Design** is the activity of defining sub-systems and their interfaces. This activity's result is the System Architecture.

#### External Interface:

An **External Interface** is an Interface between a CHORIST entity and an entity which is not a part of the CHORIST system.

#### Internal Interface:

An **Internal Interface** is an interface between two entities which are parts of CHORIST system.

## 2.3 ABBREVIATIONS

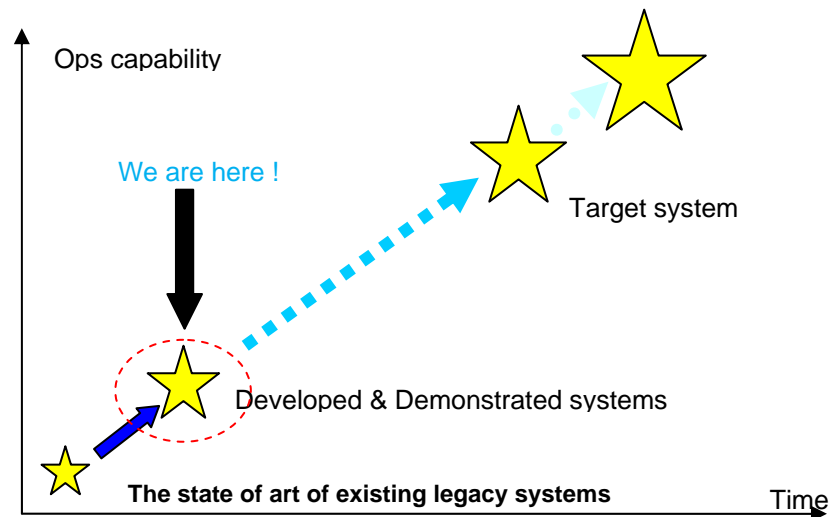
CAP	Common Alerting Protocol
CH	Chemical Incident
COP	Common Operational Picture
Demo_Sys	Demonstrated System
Dev_Sys	Developed System
ERAS	Environmental Risk Assessment
ERAW	Environmental Risk Awareness
ERAW/S	ERAW and ERAS
ERM	Environmental Risk Management
FF	Flash Flood
HW	Hardware
PROT	Prototype
SW	Software
Target_Sys	Target System
TS	Training System

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

### 3 DOCUMENT OVERVIEW

#### 3.1 EXECUTIVE SUMMARY

This document contains the ERAW and ERAS System test plan. It pertains exclusively to the developed and demonstrated systems as indicated in the system timeline in Figure 1 below.



**Figure 1 - Timeline towards the CHORIST Target System and Vision**

The document is divided into the following sections;

- Test plan
- Test preparation
- Unit, integration and system testing
- Appendix

The test plan defines the methodology, resources, tools, testing tasks and assumptions made for purposes of defining the tests.

The test preparation segment of the document defines the design of the test cases and test procedures.

The bulk of the document constitutes the actual test cases and their associated test procedures. The test categorisation logically evolves from unit through integration to system testing. For each test category, tests are defined for all three subcomponents of the CHORIST system i.e. ERAW, ERAS and TS. For each system subcomponent, test cases are succeeded by their associated test procedures. This format is replicated for each testing category throughout the document.

The document concludes with an appendix that contains a matrix of each test case, matched against its associated test procedure(s).

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

### 3.2 DOCUMENT POSITION IN PROJECT ACTIVITIES

This document is a deliverable of SP2 (WP21 & WP22) T212 and T222 activities. It derives from the CHORIST user requirements, through the system specification and design to software development and testing as shown in **Erreur ! Source du renvoi introuvable.** below.

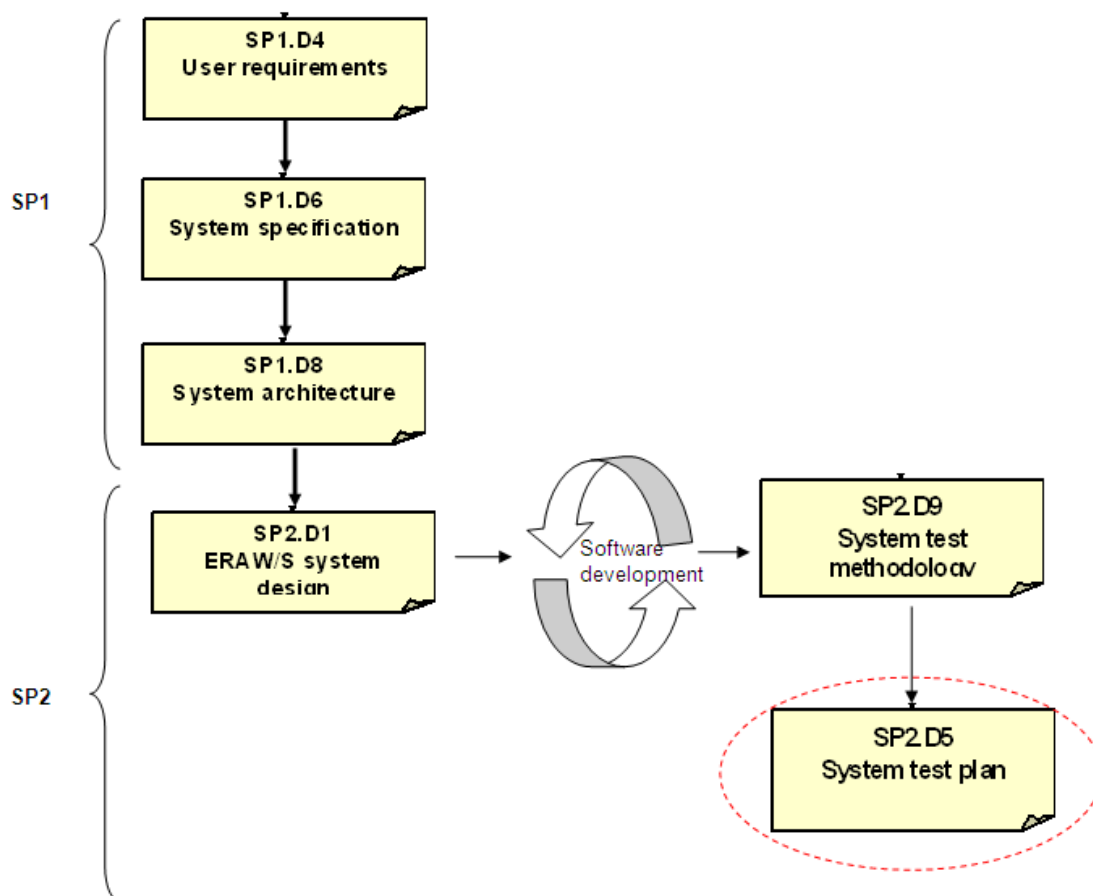


Figure 2 - Document position in project activities

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

## 4 TEST PLAN

### 4.1 TEST METHODOLOGY

The CHORIST SP2 system software constitutes three subcomponents, the ERAW, ERAS and the Training System (Training System is not included in this document. For Training System testing, please see Training system test plan – SP2.D7).

The software system will be tested logically in the following order;

**Unit testing:** Each subcomponent is unit tested whilst the software is being developed. The objective of unit testing each subcomponent of the system is to validate the correct functionality of the individual units (functions, methods and classes where applicable) that make up that component. Unit tests will be performed by the entity responsible for developing the subcomponent.

**Integration testing:** The input of this phase of the testing activity will be the unit tested subcomponents. The testing will pertain mainly to the interfaces between the subcomponents and how they integrate as a functional entity thus verifying that all components within the assemblage interact correctly.

**System Testing:** The input of this phase of the testing process will be the subcomponents that have successfully passed integration testing. The object of this testing activity is to detect any inconsistencies between the software components (or assemblages) that are integrated together thus detecting any defects both within the inter-assemblages and also within the system as a whole. The robustness of the system will also be tested in this phase of testing activities to verify how the system operates when subjected beyond the limits of normal operation. This testing phase will pertain mainly to the three CHORIST scenarios i.e. flash floods, high speed winds and chemical incident (Please see report on system demonstration trial definition - SP5.D2).

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

## 4.2 **RESOURCE REQUIREMENTS**

### 4.2.1 **Test Environment**

#### 4.2.1.1 **Hardware**

Standard PC

#### 4.2.1.2 **Software**

Platform – windows

JDK – version 1.5

Java Enterprise Edition – J2EE5

Database – Postgres

GIS – MapObjects v. 2.2 by ESRI

## 4.3 **TESTING TASKS**

The following tasks will be performed for each test;

**Test Preparation;** ensuring that all pre-requisites for the test have been satisfied (e.g. the test environment has been correctly established, all requisite software correctly installed/configured),

No external changes to the software will be performed during the test.

**Test Execution;** ensuring that the test is conducted correctly

**Test Evaluation;** analysing the results of the test in order to determine whether the test has been successful as per the defined pass/fail criteria

**Test Reporting;** reporting the results of the test, along with any observations generated during the test

## 4.4 **TEST REPORT**

All test results will be documented after the test is completed. If the test failed, or if there are any undesirable observations associated with a test, then the test result will be passed to the entity responsible. Test results will be documented in a separate deliverable entitled "SP2 system test report - SP2.D10".

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

## 5 TEST PREPARATION

### 5.1 TEST CASE DESIGN

Each test from each of the testing categories will be described using the following subsections;

**Test case;** specifies the item to be tested, and a general description of the test

**Test procedure;** generally specifies the execution conditions and steps required to validate the test

#### 5.1.1 Detailed Test Case Design

Each Test case will constitute the following subsections;

- Test Case Identifier; specifies the unique identifier associated with the test case.
- Test Item(s); the item(s) to be tested by this test case.
- Input Specifications; the values which are entered into the system for the test case.
- Output Specifications; the output (i.e. results) which are expected to be seen during the test.
- Environmental Needs; any environmental requirements specific to the test case.
- Pass/fail criteria; specifies the criteria for validating the test as passed or failed
- Test procedure reference; specifies the test procedures associated with the test case

Each test procedure will constitute the following subsections;

- Test Procedure Identifier; specifies the unique identifier associated with the test procedure.
- Purpose; specifies the purpose of the test procedure.
- Special Requirements; defines any special requirements imposed by the test procedure.
- Involved HW/SW; specifies the hardware and software required for the test
- Test data; specifies the data used for the test
- Procedure Steps; specifies the steps to follow when carrying out the test.

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

## **6 UNIT TESTING**

### **6.1 *ERAW UNIT TEST CASES***

#### **6.1.1 TC-UL-ERAW-DMC-001: Data Management Check**

##### **6.1.1.1 *Test Item(s)***

The “data management” node of the CHORIST ERAW GUI interface

##### **6.1.1.2 *Input Specification***

None

##### **6.1.1.3 *Output Specification***

None

##### **6.1.1.4 *Environmental Needs***

N/A

##### **6.1.1.5 *Pass/Fail Criteria***

The “data management” node of the CHORIST ERAW GUI interface will be deemed to have failed this test if it does not correctly and appropriately display the following children nodes when clicked;

- Data sender configuration
- Data acquisition
- Event management
- Multirisk event management

##### **6.1.1.6 *Test Procedure Reference***

TP-UL-ERAW-DMC-001-PC01: Data Management Check

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

## 6.1.2 TC-UL-ERAW-GAM-001: General Alert Management

### 6.1.2.1 Test Item(s)

The “general alert management” tab of the CHORIST ERAW GUI

### 6.1.2.2 Input Specification

None

### 6.1.2.3 Output Specification

None

### 6.1.2.4 Environmental Needs

N/A

### 6.1.2.5 Pass/Fail Criteria

The “general alert management” tab of the CHORIST ERAW GUI will be deemed to have failed this test if it does not correctly and appropriately display the following GUI attributes in the work area when clicked;

- A table containing the list of alerts (if any) with columns for alert sender, type, sent date, urgency, severity, certainty, description, and status.
- Buttons for alert importation, disposal, and display of details i.e. “import”, “discard” and “show details” respectively.

### 6.1.2.6 Test Procedure Reference

TP-UL-ERAW-GAM-001-PC01: General Alert management

## 6.1.3 TC-UL-ERAW-GAM-002: General Alert Management

### 6.1.3.1 Test Item(s)

The “show details” button on the “general alert management” tab of the CHORIST ERAW GUI interface

### 6.1.3.2 Input Specification

None

### 6.1.3.3 Output Specification

None

### 6.1.3.4 Environmental Needs

N/A

### 6.1.3.5 Pass/Fail Criteria

The “show details” button on the “general alert management” tab of the CHORIST ERAW GUI will be deemed to have failed this test if it does not correctly and appropriately display the details of the selected alert in a new dialog when clicked.

### 6.1.3.6 Test Procedure Reference

TP-UL-ERAW-GAM-001-PC01: General Alert management

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

TP-UL-ERAW-GAM-002-PC01: General Alert Management

## **6.1.4 TC-UL-ERAW-GAM-003: General Alert Management**

### **6.1.4.1 Test Item(s)**

The “import” button on the “general alert management” tab of the CHORIST ERAW GUI interface

### **6.1.4.2 Input Specification**

None

### **6.1.4.3 Output Specification**

None

### **6.1.4.4 Environmental Needs**

N/A

### **6.1.4.5 Pass/Fail Criteria**

The “import” button on the “general alert management” tab of the CHORIST ERAW GUI will be deemed to have failed this test if it does not correctly and appropriately import the selected alert into the database.

### **6.1.4.6 Test Procedure Reference**

TP-UL-ERAW-GAM-001-PC01: General Alert management

TP-UL-ERAW-GAM-003-PC01: General Alert Management

## **6.1.5 TC-UL-ERAW-GAM-004: General Alert Management**

### **6.1.5.1 Test Item(s)**

The “discard” button on the “general alert management” tab of the CHORIST ERAW GUI

### **6.1.5.2 Input Specification**

None

### **6.1.5.3 Output Specification**

None

### **6.1.5.4 Environmental Needs**

N/A

### **6.1.5.5 Pass/Fail Criteria**

The “discard” button on the “general alert management” tab of the CHORIST ERAW GUI will be deemed to have failed this test if it does not correctly and appropriately dispose of the selected alert

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

#### **6.1.5.6 Test Procedure Reference**

TP-UL-ERAW-GAM-001-PC01: General Alert management

TP-UL-ERAW-GAM-004-PC01: General Alert Management

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

## 6.1.6 TC-UL-ERAW-DSC-001: Data Sender Configuration

### 6.1.6.1 Test Item(s)

The “data sender configuration” node of CHORIST ERAW GUI interface

### 6.1.6.2 Input Specification

None

### 6.1.6.3 Output Specification

None

### 6.1.6.4 Environmental Needs

N/A

### 6.1.6.5 Pass/Fail Criteria

The “data sender configuration” node of the CHORIST ERAW GUI interface will be deemed to have failed this test if it does not correctly and appropriately display the “data sender configuration” dialog in the CHORIST GUI work area when clicked.

### 6.1.6.6 Test Procedure Reference

TP-UL-ERAW-DMC-001-PC01: Data Management Check

TP-UL-ERAW-DSC-001-PC01: Data Sender Configuration

## 6.1.7 TC-UL-ERAW-DSC-002: Data Sender Configuration

### 6.1.7.1 Test Item(s)

The “data sender configuration” dialog of CHORIST ERAW GUI interface

### 6.1.7.2 Input Specification

Name of a data sender

### 6.1.7.3 Output Specification

Name of data sender as ID

### 6.1.7.4 Environmental Needs

N/A

### 6.1.7.5 Pass/Fail Criteria

The “data sender configuration” dialog will be deemed to have failed this test if each of the following operations are not successful;

- Input of name of new data provider in the textbox provided
- Managed risk type selection
- Confirmatory message of success of operation display, whilst also displaying the new data provider in the list of existing data providers.

### 6.1.7.6 Test Procedure Reference

TP-UL-ERAW-DMC-001-PC01: Data Management Check

TP-UL-ERAW-DSC-001-PC01: Data Sender Configuration

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

TP-UL-ERAW-DSC-002-PC01: Data Sender Configuration

## **6.1.8 TC-UL-ERAW-DSC-003: Data Sender Configuration**

### **6.1.8.1 Test Item(s)**

The “cancel” button on the “data sender configuration” dialog of CHORIST ERAW GUI

### **6.1.8.2 Input Specification**

None

### **6.1.8.3 Output Specification**

None

### **6.1.8.4 Environmental Needs**

N/A

### **6.1.8.5 Pass/Fail Criteria**

The “cancel” button will be deemed to have failed this test if it does not correctly and appropriately remove the “data sender configuration” dialog from the CHORIST GUI work area when clicked.

### **6.1.8.6 Test Procedure Reference**

TP-UL-ERAW-DMC-001-PC01: Data Management Check

TP-UL-ERAW-DSC-001-PC01: Data Sender Configuration

TP-UL-ERAW-DSC-003-PC01: Data Sender Configuration

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

## 6.1.9 TC-UL-ERAW-DA-001: Data Acquisition

### 6.1.9.1 Test Item(s)

The “data acquisition” node of the CHORIST ERAW GUI interface

### 6.1.9.2 Input Specification

None

### 6.1.9.3 Output Specification

None

### 6.1.9.4 Environmental Needs

N/A

### 6.1.9.5 Pass/Fail Criteria

The “data acquisition” node will be deemed to have failed this test if it does not correctly and appropriately display a dialog in the work area that consist of the following;

- A datums table consisting of 5 columns entitled ID, acquisition date, reference date, reference event, and event type
- A “show details” button
- A “cancel” button

### 6.1.9.6 Test Procedure Reference

TP-UL-ERAW-DMC-001-PC01: Data Management Check

TP-UL-ERAW-DA-001-PC01: Data Acquisition

## 6.1.10 TC-UL-ERAW-DA-002: Data Acquisition

### 6.1.10.1 Test Item(s)

The “show details” button on the data acquisition dialog of the CHORIST ERAW GUI interface

### 6.1.10.2 Input Specification

None

### 6.1.10.3 Output Specification

None

### 6.1.10.4 Environmental Needs

N/A

### 6.1.10.5 Pass/Fail Criteria

The “show details” button on the “data acquisition” dialog will be deemed to have failed this test if on being clicked, a dialog consisting of the selected datum is not correctly and appropriately displayed with the following details;

- Datum ID
- Acquisition date
- Reference date

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

- Reference event
- Event type

#### **6.1.10.6 Test Procedure Reference**

TP-UL-ERAW-DMC-001-PC01: Data Management Check

TP-UL-ERAW-DA-001-PC01: Data Acquisition

TP-UL-ERAW-DA-002-PC01: Data Acquisition

### **6.1.11 TC-UL-ERAW-DA-003: Data Acquisition**

#### **6.1.11.1 Test Item(s)**

The “cancel” button on the data acquisition dialog of the CHORIST ERAW GUI interface

#### **6.1.11.2 Input Specification**

None

#### **6.1.11.3 Output Specification**

None

#### **6.1.11.4 Environmental Needs**

N/A

#### **6.1.11.5 Pass/Fail Criteria**

The “cancel” button on the “data acquisition” dialog will be deemed to have failed this test if it does not correctly and appropriately remove the dialog from the CHORIST ERAW GUI interface work area when clicked.

#### **6.1.11.6 Test Procedure Reference**

TP-UL-ERAW-DMC-001-PC01: Data Management Check

TP-UL-ERAW-DA-001-PC01: Data Acquisition

TP-UL-ERAW-DA-003-PC01: Data Acquisition

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

## **6.1.12 TC-UL-ERAW-EM -001: Event Management**

### **6.1.12.1 Test Item(s)**

The "Event management" node of the CHORIST ERAW GUI interface

### **6.1.12.2 Input Specification**

None

### **6.1.12.3 Output Specification**

None

### **6.1.12.4 Environmental Needs**

N/A

### **6.1.12.5 Pass/Fail Criteria**

The "event management" node will be deemed to have failed this test if does not correctly and appropriately display an event management dialog in the CHORIST ERAW GUI interface work area when clicked, that consists of the following;

- A natural events table consisting of 6 columns entitled ID, name, start date, end date, notes, status
- A "show details" button
- A "create new natural event" button
- A "close event" button
- A "correlate datums to Events" button
- A "cancel" button

### **6.1.12.6 Test Procedure Reference**

TP-UL-ERAW-DMC-001-PC01: Data Management Check

TP-UL-ERAW-EM-001-PC01: Event Management

## **6.1.13 TC-UL-ERAW-EM -002: Event Management**

### **6.1.13.1 Test Item(s)**

The "show details" button on the event management dialog of the CHORIST ERAW GUI interface

### **6.1.13.2 Input Specification**

None

### **6.1.13.3 Output Specification**

None

### **6.1.13.4 Environmental Needs**

N/A

### **6.1.13.5 Pass/Fail Criteria**

The "show details" button of the event management dialog will be deemed to have failed this test if a dialog consisting of the following is not correctly and appropriately displayed when clicked;

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

- Event ID
- Event name
- Event start date
- Event end date
- Related Datums ID
- Event note
- Event status

#### **6.1.13.6 Test Procedure Reference**

TP-UL-ERAW-DMC-001-PC01: Data Management Check

TP-UL-ERAW-EM-001-PC01: Event Management

TP-UL-ERAW-EM-002-PC01: Event Management

### **6.1.14 TC-UL-ERAW-EM -003: Event Management**

#### **6.1.14.1 Test Item(s)**

The “create new natural event” button on the event management dialog of the CHORIST ERAW GUI interface

#### **6.1.14.2 Input Specification**

Name of natural event as text string

#### **6.1.14.3 Output Specification**

Name of natural event specified in 6.1.14.2

#### **6.1.14.4 Environmental Needs**

N/A

#### **6.1.14.5 Pass/Fail Criteria**

The “create new natural event” button of the “event management” dialog will be deemed to have failed this test if a dialog consisting of the following GUI attributes is not correctly and appropriately displayed when clicked;

- An event name input text box
- An event start date calendar for date selection
- A type of risk managed text area consisting of the following text entries;
  - ➔ Flood
  - ➔ Flash flood
  - ➔ Chemical accident
  - ➔ High wind
- “Ok” and “cancel” buttons to confirm or cancel the operation as the case may be.

#### **6.1.14.6 Test Procedure Reference**

TP-UL-ERAW-DMC-001-PC01: Data Management Check

TP-UL-ERAW-EM-001-PC01: Event Management

TP-UL-ERAW-EM-003-PC01: Event Management

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

## 6.1.15 TC-UL-ERAW-EM -004: Event Management

### 6.1.15.1 Test Item(s)

The “close event” button on the “event management” dialog of the CHORIST ERAW GUI interface

### 6.1.15.2 Input Specification

None

### 6.1.15.3 Output Specification

None

### 6.1.15.4 Environmental Needs

N/A

### 6.1.15.5 Pass/Fail Criteria

The “close” button on the “event management” dialog of the CHORIST ERAW GUI interface will be deemed to have failed this test if on selecting an active natural event from the list of natural events, and clicking the “close event” button, the event status does not change from **active** to **closed**.

### 6.1.15.6 Test Procedure Reference

TP-UL-ERAW-DMC-001-PC01: Data Management Check

TP-UL-ERAW-EM-001-PC01: Event Management

TP-UL-ERAW-EM-004-PC01: Event Management

## 6.1.16 TC-UL-ERAW-EM -005: Event Management

### 6.1.16.1 Test Item(s)

The “correlate raw data to event” button on the “event management” dialog of the CHORIST ERAW GUI interface

### 6.1.16.2 Input Specification

None

### 6.1.16.3 Output Specification

None

### 6.1.16.4 Environmental Needs

N/A

### 6.1.16.5 Pass/Fail Criteria

The “correlate raw data to event” button on the “event management” node of the CHORIST ERAW GUI interface will be deemed to have failed this test if on clicking the “correlate raw data to event” button, a dialog consisting of the following GUI attributes is not correctly and appropriately displayed;

- A table of “datums not related to events” consisting of columns for ID, acquisition date, and reference date
- “Correlate to event” and “cancel” buttons

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

#### **6.1.16.6 Test Procedure Reference**

TP-UL-ERAW-DMC-001-PC01: Data Management Check

TP-UL-ERAW-EM-001-PC01: Event Management

TP-UL-ERAW-EM-005-PC01: Event Management

### **6.1.17 TC-UL-ERAW-EM -006: Event Management**

#### **6.1.17.1 Test Item(s)**

The “correlate to event” button on the “correlate datum to event” dialog on the “event management” node of the CHORIST ERAW GUI interface

#### **6.1.17.2 Input Specification**

None

#### **6.1.17.3 Output Specification**

None

#### **6.1.17.4 Environmental Needs**

N/A

#### **6.1.17.5 Pass/Fail Criteria**

The “correlate to event” button on the “correlate datum to events” dialog on the “event management” node of the CHORIST ERAW GUI interface will be deemed to have failed this test if on clicking the “correlate to event” button, a dialog consisting of the following GUI attributes is not correctly and appropriately displayed;

- A list of existing active events to which datums have been correlated
- The option to correlate the datum(s) to a new event

#### **6.1.17.6 Test Procedure Reference**

TP-UL-ERAW-DMC-001-PC01: Data Management Check

TP-UL-ERAW-EM-001-PC01: Event Management

TP-UL-ERAW-EM-005-PC01: Event Management

TP-UL-ERAW-EM-006-PC01: Event Management

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

## **6.1.18 TC-UL-ERAW-MEM-001: Multirisk Event Management**

### **6.1.18.1 Test Item(s)**

The "Multirisk event management" node of the CHORIST ERAW GUI interface

### **6.1.18.2 Input Specification**

None

### **6.1.18.3 Output Specification**

None

### **6.1.18.4 Environmental Needs**

N/A

### **6.1.18.5 Pass/Fail Criteria**

The "Multirisk event management" node will be deemed to have failed this test if it does not correctly and appropriately display a "multirisk event management" dialog in the CHORIST ERAW GUI interface work area when clicked, that consists of the following GUI attributes;

- A multirisk events table consisting of 4 columns entitled ID, name, related events, and multirisk event status
- A "show details" button
- A "close event" button
- A "correlate event to multirisk event" button
- And a "cancel" button

### **6.1.18.6 Test Procedure Reference**

TP-UL-ERAW-DMC-001-PC01: Data Management Check

TP-UL-ERAW-MEM-001-PC01: Multirisk Event Management

## **6.1.19 TC-UL-ERAW-MEM -002: Multirisk Event Management**

### **6.1.19.1 Test Item(s)**

The "show details" button on the "multirisk event management" dialog of the CHORIST ERAW GUI interface

### **6.1.19.2 Input Specification**

None

### **6.1.19.3 Output Specification**

None

### **6.1.19.4 Environmental Needs**

N/A

### **6.1.19.5 Pass/Fail Criteria**

The "show details" button of the "multirisk event management" dialog will be deemed to have failed this test if a dialog consisting of the following is not correctly and appropriately displayed when clicked;

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

- Multirisk event ID
- Multirisk event name
- Related events
- Multirisk event status

#### **6.1.19.6 Test Procedure Reference**

TP-UL-ERAW-DMC-001-PC01: Data Management Check

TP-UL-ERAW-MEM-001-PC01: Multirisk Event Management

TP-UL-ERAW-MEM-002-PC01: Multirisk Event Management

### **6.1.20 TC-UL-ERAW-MEM -003: Multirisk Event Management**

#### **6.1.20.1 Test Item(s)**

The “close event” button on the “multirisk event management” dialog of the CHORIST ERAW GUI interface

#### **6.1.20.2 Input Specification**

None

#### **6.1.20.3 Output Specification**

None

#### **6.1.20.4 Environmental Needs**

N/A

#### **6.1.20.5 Pass/Fail Criteria**

The “close” button on the “multirisk event management” dialog of the CHORIST ERAW GUI interface will be deemed to have failed this test if on selecting an active multirisk event from the list of multirisk events, and clicking the “close event” button, the event status does not change from **active** to **closed**.

#### **6.1.20.6 Test Procedure Reference**

TP-UL-ERAW-DMC-001-PC01: Data Management Check

TP-UL-ERAW-MEM-001-PC01: Multirisk Event Management

TP-UL-ERAW-MEM-003-PC01: Multirisk Event Management

### **6.1.21 TC-UL-ERAW-MEM -004: Multirisk Event Management**

#### **6.1.21.1 Test Item(s)**

The “correlate event to multirisk event” button on the “multirisk event management” dialog of the CHORIST ERAW GUI interface

#### **6.1.21.2 Input Specification**

None

#### **6.1.21.3 Output Specification**

None

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

#### **6.1.21.4 Environmental Needs**

N/A

#### **6.1.21.5 Pass/Fail Criteria**

The “correlate event to multirisk event” button on the “multirisk event management” node of the CHORIST ERAW GUI interface will be deemed to have failed this test if on clicking the “correlate event to multirisk event” button, a dialog consisting of the following GUI attributes is not correctly and appropriately displayed;

- A table of “natural events not related to multirisk events” consisting of columns for ID, name, start date, end date, notes, and status
- “Correlate to multirisk event” and “cancel” buttons

#### **6.1.21.6 Test Procedure Reference**

TP-UL-ERAW-DMC-001-PC01: Data Management Check

TP-UL-ERAW-EM-001-PC01: Event Management

TP-UL-ERAW-EM-004-PC01: Event Management

### **6.1.22 TC-UL-ERAW-MEM -005: Multirisk Event Management**

#### **6.1.22.1 Test Item(s)**

The “correlate to multirisk event” button on the “events not related to multirisk events” dialog on the “multirisk event management” node of the CHORIST ERAW GUI interface

#### **6.1.22.2 Input Specification**

None

#### **6.1.22.3 Output Specification**

None

#### **6.1.22.4 Environmental Needs**

N/A

#### **6.1.22.5 Pass/Fail Criteria**

The “correlate to multirisk event” button on the “events not related to multirisk events” dialog on the “event management” node of the CHORIST ERAW GUI interface will be deemed to have failed this test if on clicking the “correlate to multirisk event” button, a dialog consisting of the following GUI attributes is not correctly and appropriately displayed;

- A list of existing multirisk events to which natural events have been correlated
- The option to correlate the natural event(s) to a new multirisk event

#### **6.1.22.6 Test Procedure Reference**

TP-UL-ERAW-DMC-001-PC01: Data Management Check

TP-UL-ERAW-MEM-001-PC01: Multirisk Event Management

TP-UL-ERAW-MEM-004-PC01: Multirisk Event Management

TP-UL-ERAW-MEM-005-PC01: Multirisk Event Management

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

## 6.2 **ERAW UNIT TEST PROCEDURES**

### 6.2.1 **TP-UL-ERAW-DMC-001: Data Management Check**

#### 6.2.1.1 **Purpose**

To verify that the “data management” node on the CHORIST ERAW GUI displays the the following children nodes when clicked;

- Data sender configuration
- Data acquisition
- Event management
- Multirisk event management

#### 6.2.1.2 **Special Requirement**

None

#### 6.2.1.3 **Involved HW/SW**

ERAW Platform ERAW Software

#### 6.2.1.4 **Test Data**

N/A

<b>TP-UL-ERAW-DMC-001-PC01 Step:</b>				
<b>Step</b>	<b>Action</b>	<b>Expected Result</b>	<b>OK/not OK</b>	<b>Remarks</b>
001	Start CHORIST GUI	CHORIST GUI started		
002	Click on the “data management” node on the left of the CHORIST ERAW GUI	The following nodes are display as children nodes; <ul style="list-style-type: none"> <li>○ Data sender configuration</li> <li>○ Data acquisition</li> <li>○ Event management</li> <li>○ Multirisk event management</li> </ul>		

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

## 6.2.2 TP-UL-ERAW-GAM-001: General Alert Management

### 6.2.2.1 Purpose

To ensure that when the general alert management tab of the CHORIST ERAW GUI is clicked, the following GUI attributes are displayed;

- A table listing the alerts, with columns for sender, type, sent date, urgency, severity, certainty, description, status.
- Buttons for alert importation, disposal and exposure of details.

### 6.2.2.2 Special Requirement

None

### 6.2.2.3 Involved HW/SW

ERAW Platform ERAW Software

### 6.2.2.4 Test Data

N/A

<i>TP-UL-ERAW-GAM-001-PC01 Step:</i>				
<i>Step</i>	<i>Action</i>	<i>Expected Result</i>	<i>OK/not OK</i>	<i>Remarks</i>
001	Click on the "general alert management" tab of the CHORIST ERAW GUI	The following GUI attributes are displayed in the work area; <ul style="list-style-type: none"> <li>○ A table of alerts with columns as specified in 6.2.2.1 above</li> <li>○ "Show details", "import" and "discard" buttons.</li> </ul>		

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

## 6.2.3 TP-UL-ERAW-GAM-002: General Alert Management

### 6.2.3.1 Purpose

To verify that the “Show details” button on the “general alert” tab on the CHORIST ERAW GUI interface displays the details of the selected alert appropriately and as expected.

### 6.2.3.2 Special Requirement

None

### 6.2.3.3 Involved HW/SW

ERAW Platform ERAW Software

### 6.2.3.4 Test Data

N/A

<b>TP-UL-ERAW-GAM-002-PC01 Step:</b>				
<b>Step</b>	<b>Action</b>	<b>Expected Result</b>	<b>OK/not OK</b>	<b>Remarks</b>
001	Click on the “general” alert management tab of the CHORIST ERAW GUI	The “general alert management” GUI interface is displayed in the CHORIST GUI work area		
002	Select the desired alert from the list provided			
003	Click the “show details” button	The details of the alert selected in step 002 above are displayed.		

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

## 6.2.1 TP-UL-ERAW-GAM-003: General Alert Management

### 6.2.1.1 Purpose

To verify that the “import” button on the “general alert” tab on the CHORIST ERAW GUI interface imports the selected alert into the database appropriately and as expected.

### 6.2.1.2 Special Requirement

None

### 6.2.1.3 Involved HW/SW

ERAW Platform ERAW Software

### 6.2.1.4 Test Data

N/A

<b>TP-UL-ERAW-GAM-003-PC01 Step:</b>				
<b>Step</b>	<b>Action</b>	<b>Expected Result</b>	<b>OK/not OK</b>	<b>Remarks</b>
001	Click on the “general alert management” tab of the CHORIST ERAW GUI	The “general alert management” GUI interface is displayed in the CHORIST GUI work area		
002	Select the desired alert from the list provided	Selected alert is highlighted		
003	Click the “import” button	A dialog is displayed prompting the user to confirm or decline the operation		
004	Click “ok” to confirm the operation	The alert selected in step 002 above disappears from the list of alerts		

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

## 6.2.2 TP-UL-ERAW-GAM-004: General Alert Management

### 6.2.2.1 Purpose

To verify that the “discard” button on the “general alert” tab on the CHORIST ERAW GUI interface disposes of the selected alert

### 6.2.2.2 Special Requirement

None

### 6.2.2.3 Involved HW/SW

ERAW Platform ERAW Software

### 6.2.2.4 Test Data

N/A

<b>TP-UL-ERAW-GAM-004-PC01 Step:</b>				
<b>Step</b>	<b>Action</b>	<b>Expected Result</b>	<b>OK/not OK</b>	<b>Remarks</b>
001	Click on the “general” alert management tab of the CHORIST ERAW GUI	The “general alert management” GUI interface is displayed in the CHORIST GUI work area		
002	Select the desired alert from the list provided	Selected alert is highlighted		
003	Click the “discard” button	A dialog is displayed prompting the user to confirm or decline the operation		
004	Click “ok” to confirm the operation	The alert selected in 2 above is removed from the list of alerts		

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

## 6.2.3 TP-UL-ERAW-DSC-001: Data Sender Configuration

### 6.2.3.1 Purpose

To verify that the “data sender configuration” node on the CHORIST ERAW GUI interface displays the “data sender configuration” dialog in the CHORIST GUI work area when clicked.

### 6.2.3.2 Special Requirement

None

### 6.2.3.3 Involved HW/SW

ERAW Platform ERAW Software

### 6.2.3.4 Test Data

N/A

<b>TP-UL-ERAW-DSC-001-PC01 Step:</b>				
<b>Step</b>	<b>Action</b>	<b>Expected Result</b>	<b>OK/not OK</b>	<b>Remarks</b>
001	Click on the “data management” node on the left of the CHORIST ERAW GUI	The following nodes are revealed as children nodes; <ul style="list-style-type: none"> <li>○ Data sender configuration</li> <li>○ Data acquisition</li> <li>○ Event management</li> <li>○ Multirisk event management</li> </ul>		
002	Choose and click on the “data sender configuration” node	The “data sender configuration” dialog is displayed in the CHORIST GUI work area		

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

## 6.2.4 TP-UL-ERAW-DSC-002: Data Sender Configuration

### 6.2.4.1 Purpose

To verify that a user can configure a data sender in the “data sender configuration” dialog on the CHORIST ERAW GUI interface

### 6.2.4.2 Special Requirement

None

### 6.2.4.3 Involved HW/SW

ERAW Platform ERAW Software

### 6.2.4.4 Test Data

Any text string

<i>TP-UL-ERAW-DSC-002-PC01 Step:</i>				
<i>Step</i>	<i>Action</i>	<i>Expected Result</i>	<i>OK/not OK</i>	<i>Remarks</i>
001	Click on the “data management” node on the left of the CHORIST ERAW GUI	The following nodes are revealed as children nodes; <ul style="list-style-type: none"> <li>○ Data sender configuration</li> <li>○ Data acquisition</li> <li>○ Event management</li> <li>○ Multirisk event management</li> </ul>		
002	Choose and click on the “data sender configuration” node	The “data sender configuration” dialog is displayed in the CHORIST GUI work area		
003	Enter the name of the new data sender in the text box provided	Name of the new data sender		
004	Choose the type of risk managed by the data sender entered in step 3 above.	Chosen risk type is highlighted		
005	Click “ok”	The dialog will be closed without error, whilst displaying the data sender name entered in 3 above in the summary of existing data providers as an ID		

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

## 6.2.5 TP-UL-ERAW-DSC-003: Data Sender Configuration

### 6.2.5.1 Purpose

To verify that the “data sender configuration” dialog on the CHORIST ERAW GUI interface is removed from the work area when the “cancel” button is clicked

### 6.2.5.2 Special Requirement

None

### 6.2.5.3 Involved HW/SW

ERAW Platform ERAW Software

### 6.2.5.4 Test Data

None

<i>TP-UL-ERAW-DSC-002-PC01 Step:</i>				
<i>Step</i>	<i>Action</i>	<i>Expected Result</i>	<i>OK/not OK</i>	<i>Remarks</i>
001	Click on the “data management” node on the left of the CHORIST ERAW GUI	The following nodes are revealed as children nodes; <ul style="list-style-type: none"> <li>○ Data sender configuration</li> <li>○ Data acquisition</li> <li>○ Event management</li> <li>○ Multirisk event management</li> </ul>		
002	Choose and click on the “data sender configuration” node	The “data sender configuration” dialog is displayed in the CHORIST GUI work area		
003	Click “cancel”	The “data sender configuration” dialog is removed from the CHORIST GUI interface work area		

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

## 6.2.6 TP-UL-ERAW-DA-001: Data Acquisition

### 6.2.6.1 Purpose

To verify that the “data acquisition” node displays the appropriate and correct dialog in the CHORIST ERAW GUI interface work area when clicked

### 6.2.6.2 Special Requirement

None

### 6.2.6.3 Involved HW/SW

ERAW Platform ERAW Software

### 6.2.6.4 Test Data

None

<i>TP-UL-ERAW-DA-001-PC01 Step:</i>				
<i>Step</i>	<i>Action</i>	<i>Expected Result</i>	<i>OK/not OK</i>	<i>Remarks</i>
001	Click on the “data management” node on the left of the CHORIST ERAW GUI	The following nodes are revealed as children nodes; <ul style="list-style-type: none"> <li>○ Data sender configuration</li> <li>○ Data acquisition</li> <li>○ Event management</li> <li>○ Multirisk event management</li> </ul>		
002	Choose and click on the “data acquisition” node	The “data acquisition” dialog is displayed in the CHORIST GUI work area consisting of the GUI attributes defined in 6.1.9.5 above		

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

## 6.2.7 TP-UL-ERAW-DA-002: Data Acquisition

### 6.2.7.1 Purpose

To verify that the “show details” button on the “data acquisition” dialog displays the appropriate and correct dialog in the CHORIST ERAW GUI interface work area when clicked

### 6.2.7.2 Special Requirement

None

### 6.2.7.3 Involved HW/SW

ERAW Platform ERAW Software

### 6.2.7.4 Test Data

None

<i>TP-UL-ERAW-DA-002-PC01 Step:</i>				
<i>Step</i>	<i>Action</i>	<i>Expected Result</i>	<i>OK/not OK</i>	<i>Remarks</i>
001	Click on the “data management” node on the left of the CHORIST ERAW GUI	The following nodes are revealed as children nodes; <ul style="list-style-type: none"> <li>○ Data sender configuration</li> <li>○ Data acquisition</li> <li>○ Event management</li> <li>○ Multirisk event management</li> </ul>		
002	Choose and click on the “data acquisition” node	The “data acquisition” dialog is displayed in the CHORIST GUI work area consisting of the GUI attributes defined in 6.1.9.5 above		
003	Select the desired datum from the list of datums provided and click on the “show details” button	The details of the selected datum are displayed as defined in 6.1.10.5 above		

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

## 6.2.8 TP-UL-ERAW-DA-003: Data Acquisition

### 6.2.8.1 Purpose

To verify that on clicking the “cancel” button on the “data acquisition” dialog, the dialog is removed from the CHORIST ERAW GUI interface work area

### 6.2.8.2 Special Requirement

None

### 6.2.8.3 Involved HW/SW

ERAW Platform ERAW Software

### 6.2.8.4 Test Data

None

<i>TP-UL-ERAW-DA-003-PC01 Step:</i>				
<i>Step</i>	<i>Action</i>	<i>Expected Result</i>	<i>OK/not OK</i>	<i>Remarks</i>
001	Click on the “data management” node on the left of the CHORIST ERAW GUI	The following nodes are revealed as children nodes; <ul style="list-style-type: none"> <li>○ Data sender configuration</li> <li>○ Data acquisition</li> <li>○ Event management</li> <li>○ Multirisk event management</li> </ul>		
002	Choose and click on the “data acquisition” node	The “data acquisition” dialog is displayed in the CHORIST GUI work area consisting of the GUI attributes defined in 6.1.9.5 above		
003	Click on the “cancel” button	The data acquisition dialog is removed from the CHORIST ERAW GUI interface work area		

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

## 6.2.9 TP-UL-ERAW-EM-001: Event Management

### 6.2.9.1 Purpose

To verify that the “event management” node displays the appropriate and correct dialog in the CHORIST ERAW GUI interface work area when clicked

### 6.2.9.2 Special Requirement

None

### 6.2.9.3 Involved HW/SW

ERAW Platform ERAW Software

### 6.2.9.4 Test Data

None

<i>TP-UL-ERAW-EM-001-PC01 Step:</i>				
<i>Step</i>	<i>Action</i>	<i>Expected Result</i>	<i>OK/not OK</i>	<i>Remarks</i>
001	Click on the “data management” node on the left of the CHORIST ERAW GUI	The following nodes are revealed as children nodes; <ul style="list-style-type: none"> <li>○ Data sender configuration</li> <li>○ Data acquisition</li> <li>○ Event management</li> <li>○ Multirisk event management</li> </ul>		
002	Choose and click on the “event management” node	The “event management” dialog is displayed in the CHORIST GUI work area consisting of the GUI attributes defined in 6.1.12.5 above		

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

## 6.2.10 TP-UL-ERAW-EM-002: Event Management

### 6.2.10.1 Purpose

To verify that the “show details” button on the “event management” node displays the appropriate and correct dialog in the CHORIST ERAW GUI interface work area when clicked

### 6.2.10.2 Special Requirement

None

### 6.2.10.3 Involved HW/SW

ERAW Platform ERAW Software

### 6.2.10.4 Test Data

None

<i>TP-UL-ERAW-EM-002-PC01 Step:</i>				
<i>Step</i>	<i>Action</i>	<i>Expected Result</i>	<i>OK/not OK</i>	<i>Remarks</i>
001	Click on the “data management” node on the left of the CHORIST ERAW GUI	The following nodes are revealed as children nodes; <ul style="list-style-type: none"> <li>○ Data sender configuration</li> <li>○ Data acquisition</li> <li>○ Event management</li> <li>○ Multirisk event management</li> </ul>		
002	Choose and click on the “event management” node	The “event management” dialog is displayed in the CHORIST GUI work area consisting of the GUI attributes defined in 6.1.12.5 above		
003	Select the desired natural event from the list of natural events provided (if any) and click on the “show details” button	The details of the selected natural event are displayed consisting of the event ID, name, start date, end date, related datum ID, note, and status.		

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

## 6.2.11 TP-UL-ERAW-EM-003: Event Management

### 6.2.11.1 Purpose

To verify that the “create new natural event” button on the “event management” node of the CHORIST GUI interface displays a dialog that allows for creating new natural events in the system when clicked.

### 6.2.11.2 Special Requirement

None

### 6.2.11.3 Involved HW/SW

ERAW Platform ERAW Software

### 6.2.11.4 Test Data

None

<i>TP-UL-ERAW-EM-003-PC01 Step:</i>				
<i>Step</i>	<i>Action</i>	<i>Expected Result</i>	<i>OK/not OK</i>	<i>Remarks</i>
001	Click on the “data management” node on the left of the CHORIST ERAW GUI	The following nodes are revealed as children nodes; <ul style="list-style-type: none"> <li>○ Data sender configuration</li> <li>○ Data acquisition</li> <li>○ Event management</li> <li>○ Multirisk event management</li> </ul>		
002	Choose and click on the “event management” node	The “event management” dialog is displayed in the CHORIST GUI work area consisting of the GUI attributes defined in 6.1.12.5 above		
003	Click on the “create new natural event” button	The “new natural event” dialog is displayed in the CHORIST ERAW GUI interface with attributes as defined in 6.1.14.5 above.		
004	Enter the name of the new natural event as a text string in the input box provided	name of the new natural event just entered is displayed		
005	Select a start date for the event entered in 4 above	Date chosen is displayed		
006	Select the type of risk managed	Type of risk selected		
007	Click “ok” button	An information dialog notifying the user of the success of the operation is displayed		
008	Click “ok” button of the information dialog	Information dialog closes without errors whilst displaying the natural event entered in step 004 above in the list of natural events		

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

## 6.2.12 TP-UL-ERAW-EM-004: Event Management

### 6.2.12.1 Purpose

To verify that the “close event” button on the “event management” node of the CHORIST GUI interface changes the status of the selected event from **active** to **closed** when clicked.

### 6.2.12.2 Special Requirement

None

### 6.2.12.3 Involved HW/SW

ERAW Platform ERAW Software

### 6.2.12.4 Test Data

None

<i>TP-UL-ERAW-EM-004-PC01 Step:</i>				
<i>Step</i>	<i>Action</i>	<i>Expected Result</i>	<i>OK/not OK</i>	<i>Remarks</i>
001	Click on the “data management” node on the left of the CHORIST ERAW GUI	The following nodes are revealed as children nodes; <ul style="list-style-type: none"> <li>○ Data sender configuration</li> <li>○ Data acquisition</li> <li>○ Event management</li> <li>○ Multirisk event management</li> </ul>		
002	Choose and click on the “event management” node	The “event management” dialog is displayed in the CHORIST GUI work area consisting of the GUI attributes defined in 6.1.12.5 above		
003	Select the desired <b>active</b> event and click on the “close event” button	The status of the chosen event should change from active to closed.		

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

## 6.2.13 TP-UL-ERAW-EM-005: Event Management

### 6.2.13.1 Purpose

To verify that the "Correlate datums to events" button on the "event management" node of the CHORIST ERAW GUI interface displays the appropriate and correct dialog when clicked.

### 6.2.13.2 Special Requirement

None

### 6.2.13.3 Involved HW/SW

ERAW Platform ERAW Software

### 6.2.13.4 Test Data

None

<i>TP-UL-ERAW-EM-005-PC01 Step:</i>				
<i>Step</i>	<i>Action</i>	<i>Expected Result</i>	<i>OK/not OK</i>	<i>Remarks</i>
001	Click on the "data management" node on the left of the CHORIST ERAW GUI	The following nodes are revealed as children nodes; <ul style="list-style-type: none"> <li>○ Data sender configuration</li> <li>○ Data acquisition</li> <li>○ Event management</li> <li>○ Multirisk event management</li> </ul>		
002	Choose and click on the "event management" node	The "event management" dialog is displayed in the CHORIST GUI work area consisting of the GUI attributes defined in 6.1.12.5 above		
003	click on the "Correlate datums to events" button	The "datums not related to events" dialog is displayed in the CHORIST GUI work area consisting of the GUI attributes defined in 6.1.16.5 above		

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

## 6.2.14 TP-UL-ERAW-EM-006: Event Management

### 6.2.14.1 Purpose

To verify that the “Correlate to event” button on the “correlate datums to event” dialog on the “event management” node of the CHORIST ERAW GUI interface displays the correct and appropriate dialog when clicked.

### 6.2.14.2 Special Requirement

None

### 6.2.14.3 Involved HW/SW

ERAW Platform ERAW Software

### 6.2.14.4 Test Data

None

<i>TP-UL-ERAW-EM-006-PC01 Step:</i>				
<i>Step</i>	<i>Action</i>	<i>Expected Result</i>	<i>OK/not OK</i>	<i>Remarks</i>
001	Click on the “data management” node on the left of the CHORIST ERAW GUI	The following nodes are revealed as children nodes; <ul style="list-style-type: none"> <li>○ Data sender configuration</li> <li>○ Data acquisition</li> <li>○ Event management</li> <li>○ Multirisk event management</li> </ul>		
002	Choose and click on the “event management” node	The event management dialog is displayed in the CHORIST GUI work area consisting of the GUI attributes defined in 6.1.12.5 above		
003	Click on the “Correlate datums to events” button	The “datums not related to events” dialog is displayed in the CHORIST GUI work area consisting of the GUI attributes defined in 6.1.16.5 above		
004	Select the datum(s) to correlate	Datum(s) selected		
005	Click on the “correlate to event” button	A dialog consisting of the following is displayed; <ul style="list-style-type: none"> <li>○ A list of active events to which datums have been correlated</li> <li>○ The option to correlate the datum(s) selected in step 004 above to a new event (see 6.2.11)</li> </ul>		
006	Select the event to which to correlate the datum(s) selected in 4 above			
0007	Click the “ok” button	A message confirming the success of the operation is displayed, and when “ok” button is clicked, the dialog should close without errors		

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

## 6.2.15 TP-UL-ERAW-MEM-001: Multirisk Event Management

### 6.2.15.1 Purpose

To verify that the “multirisk event management” node displays the appropriate and correct dialog in the CHORIST ERAW GUI interface work area when clicked

### 6.2.15.2 Special Requirement

None

### 6.2.15.3 Involved HW/SW

ERAW Platform ERAW Software

### 6.2.15.4 Test Data

None

<i>TP-UL-ERAW-EM-001-PC01 Step:</i>				
<i>Step</i>	<i>Action</i>	<i>Expected Result</i>	<i>OK/not OK</i>	<i>Remarks</i>
001	Click on the “data management” node on the left of the CHORIST ERAW GUI	The following nodes are revealed as children nodes; <ul style="list-style-type: none"> <li>○ Data sender configuration</li> <li>○ Data acquisition</li> <li>○ Event management</li> <li>○ Multirisk event management</li> </ul>		
002	Choose and click on the “multirisk event management” node	The “multirisk event management” dialog is displayed in the CHORIST GUI work area consisting of the GUI attributes defined in 6.1.18.5 above		

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

## 6.2.16 TP-UL-ERAW-MEM-002: Multirisk Event Management

### 6.2.16.1 Purpose

To verify that the “show details” button on the “multirisk event management” dialog displays the appropriate and correct dialog in the CHORIST ERAW GUI interface work area when clicked

### 6.2.16.2 Special Requirement

None

### 6.2.16.3 Involved HW/SW

ERAW Platform ERAW Software

### 6.2.16.4 Test Data

None

<i>TP-UL-ERAW-MEM-002-PC01 Step:</i>				
<i>Step</i>	<i>Action</i>	<i>Expected Result</i>	<i>OK/not OK</i>	<i>Remarks</i>
001	Click on the “data management” node on the left of the CHORIST ERAW GUI	The following nodes are revealed as children nodes; <ul style="list-style-type: none"> <li>○ Data sender configuration</li> <li>○ Data acquisition</li> <li>○ Event management</li> <li>○ Multirisk event management</li> </ul>		
002	Choose and click on the “multirisk event management” node	The “multirisk event management” dialog is displayed in the CHORIST GUI work area consisting of the GUI attributes defined in 6.1.18.5 above		
003	Select the desired multirisk event from the list of multirisk events provided and click on the “show details” button	The details of the selected multirisk event are displayed consisting of the multirisk event ID, name, related events, and multirisk event status.		

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

## 6.2.17 TP-UL-ERAW-MEM-003: Multirisk Event Management

### 6.2.17.1 Purpose

To verify that the “close event” button on the “multirisk event management” node of the CHORIST GUI interface changes the status of the selected multirisk event from **active** to **closed** when clicked.

### 6.2.17.2 Special Requirement

None

### 6.2.17.3 Involved HW/SW

ERAW Platform ERAW Software

### 6.2.17.4 Test Data

None

<i>TP-UL-ERAW-MEM-003-PC01 Step:</i>				
<i>Step</i>	<i>Action</i>	<i>Expected Result</i>	<i>OK/not OK</i>	<i>Remarks</i>
001	Click on the “data management” node on the left of the CHORIST ERAW GUI	The following nodes are revealed as children nodes; <ul style="list-style-type: none"> <li>○ Data sender configuration</li> <li>○ Data acquisition</li> <li>○ Event management</li> <li>○ Multirisk event management</li> </ul>		
002	Choose and click on the “multirisk event management” node	The “multirisk event management” dialog is displayed in the CHORIST GUI work area consisting of the GUI attributes defined in 6.1.18.5 above		
003	Select the desired <b>active</b> event and click on the “close event” button	The status of the chosen multirisk event should change from active to closed.		

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

## 6.2.18 TP-UL-ERAW-MEM-004: Multirisk Event Management

### 6.2.18.1 Purpose

To verify that the “Correlate events to multirisk events” button on the “multirisk event management” dialog of the CHORIST ERAW GUI interface displays the appropriate and correct dialog when clicked.

### 6.2.18.2 Special Requirement

None

### 6.2.18.3 Involved HW/SW

ERAW Platform ERAW Software

### 6.2.18.4 Test Data

None

<i>TP-UL-ERAW-MEM-004-PC01 Step:</i>				
<i>Step</i>	<i>Action</i>	<i>Expected Result</i>	<i>OK/not OK</i>	<i>Remarks</i>
001	Click on the “data management” node on the left of the CHORIST ERAW GUI	The following nodes are revealed as children nodes; <ul style="list-style-type: none"> <li>○ Data sender configuration</li> <li>○ Data acquisition</li> <li>○ Event management</li> <li>○ Multirisk event management</li> </ul>		
002	Choose and click on the “multirisk event management” node	The “multirisk event management” dialog is displayed in the CHORIST GUI work area consisting of the GUI attributes defined in 6.1.18.5 above		
003	Click on the “Correlate events to multirisk events” button	The “natural events not related to multirisk events” dialog is displayed in the CHORIST GUI work area consisting of the GUI attributes defined in 6.1.21.5 above		

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

## 6.2.19 TP-UL-ERAW-MEM-005: Multirisk Event Management

### 6.2.19.1 Purpose

To verify that the “Correlate to multirisk event” button on the “correlate events to multirisk events” dialog on the “multirisk event management” node of the CHORIST ERAW GUI interface displays the correct and appropriate dialog when clicked

### 6.2.19.2 Special Requirement

None

### 6.2.19.3 Involved HW/SW

ERAW Platform ERAW Software

### 6.2.19.4 Test Data

None

<b><i>TP-UL-ERAW-MEM-005-PC01 Step:</i></b>				
<b><i>Step</i></b>	<b><i>Action</i></b>	<b><i>Expected Result</i></b>	<b><i>OK/not OK</i></b>	<b><i>Remarks</i></b>
001	Click on the “data management” node on the left of the CHORIST ERAW GUI	The following nodes are revealed as children nodes; <ul style="list-style-type: none"> <li>○ Data sender configuration</li> <li>○ Data acquisition</li> <li>○ Event management</li> <li>○ Multirisk event management</li> </ul>		
002	Choose and click on the “multirisk event management” node	The “multirisk event management” dialog is displayed in the CHORIST GUI work area consisting of the GUI attributes defined in 6.1.18.5 above		
003	Click on the “Correlate events to multirisk events” button	The “natural events not related to multirisk events” dialog is displayed in the CHORIST GUI work area consisting of the GUI attributes defined in 6.1.21.5 above		
004	Select the natural event(s) to correlate	Natural event(s) selected		
005	Click on the “correlate to multirisk event” button	A dialog consisting of the following is displayed; <ul style="list-style-type: none"> <li>○ A list of multirisk events to which events have been correlated</li> <li>○ The option to correlate the events(s) selected in step 004 above to a new multirisk event</li> </ul>		
006	Select the multirisk event to which to correlate the event(s) selected in 4 above	Multirisk event selected		
0007	Click the “ok” button	Operation confirmation message is displayed and when “ok” button is clicked, dialog closes with no errors		

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

## 6.3 ERAS UNIT TEST CASES

### 6.3.1 TC-UL-ERAS-NBA-001: DB FF Neighbourhood Analysis

#### 6.3.1.1 Test Item(s)

Neighbourhood analysis flash flood incoming data management and storage inside the ERAW/S DB

#### 6.3.1.2 Input Specification

ERAW flash flood incoming data

#### 6.3.1.3 Output Specification

Common Operational Picture

#### 6.3.1.4 Environmental Needs

FFSimulator/112CAISimulator, ERAW/S DB, GIS Database

#### 6.3.1.5 Pass/Fail Criteria

Since all test cases are deterministic, the test will pass successfully if in each procedure step, the obtained results correspond to the expected output described within the same procedure.

#### 6.3.1.6 Test Procedure Reference

TP-UL-ERAS-FFNBA-001-PC01: DB FF NA LOCAL

TP-UL-ERAS-FFNBA-002-PC01: DB FF NA CIRCLE

TP-UL-ERAS-FFNBA-003-PC01: DB FF NA POLYGON

### 6.3.2 TC-UL-ERAS-NBA-002: DB HW Neighbourhood Analysis

#### 6.3.2.1 Test Item(s)

Neighbourhood analysis high winds incoming data management and storage inside the ERAW/S DB

#### 6.3.2.2 Input Specification

ERAW high winds incoming data

#### 6.3.2.3 Output Specification

Common Operational Picture

#### 6.3.2.4 Environmental Needs

FFSimulator/112CAISimulator, ERAW/S DB, GIS Database

#### 6.3.2.5 Pass/Fail Criteria

Since all test cases are deterministic, the test will pass successfully if in each procedure step, the obtained results correspond to the expected output described within the same procedure.

#### 6.3.2.6 Test Procedure Reference

TP-UL-ERAS-HWNBA-001-PC01: HW NA LOCAL

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

TP-UL-ERAS-HWNBA-002-PC01: HW NA CIRCLE

TP-UL-ERAS-HWNBA-003-PC01: HW NA POLYGON

### **6.3.3 TC-UL-ERAS-NBA-003: DB CH Neighbourhood Analysis**

#### **6.3.3.1 Test Item(s)**

Neighbourhood analysis chemical incident incoming data management and storage inside the ERAW/S DB

#### **6.3.3.2 Input Specification**

ERAW chemical incident incoming data

#### **6.3.3.3 Output Specification**

Common Operational Picture

#### **6.3.3.4 Environmental Needs**

FFSimulator/112CAIISimulator, ERAW/S DB, GIS Database

#### **6.3.3.5 Pass/Fail Criteria**

Since all test cases are deterministic, the test will pass successfully if in each procedure step, the obtained results correspond to the expected output described within the same procedure.

#### **6.3.3.6 Test Procedure Reference**

TP-UL-ERAS-CHNBA-001-PC01: CH NA LOCAL

TP-UL-ERAS-CHNBA-002-PC01: CH NA CIRCLE

TP-UL-ERAS-CHNBA-003-PC01: CH NA POLYGON

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

## **6.3.4 TC-UL-ERAS-SAN-001: Situation Analysis**

### **6.3.4.1 Test Item(s)**

Succession of a neighbourhood analysis by a situation analysis

### **6.3.4.2 Input Specification**

ERAW data inside ERAW/S DB

### **6.3.4.3 Output Specification**

Shape and Image

### **6.3.4.4 Environmental Needs**

GIS Database

### **6.3.4.5 Pass/Fail Criteria**

Since all test cases are deterministic, the test will pass successfully if in each procedure step, the obtained results correspond to the expected output described within the procedure.

### **6.3.4.6 Test Procedure Reference**

TP-UL-ERAS-SAN-001-PC01: Situation Analysis

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

## 6.4 ERAS UNIT TEST PROCEDURES

### 6.4.1 TP-UL-ERAS-FFNBA-001: DB FF Neighbourhood Analysis Local

#### 6.4.1.1 Purpose

To ensure that Local model Flash Flood data is correctly and appropriately managed and stored inside the ERAW/S Database.

#### 6.4.1.2 Special Requirement

Flash Flood incoming data from ERAW

#### 6.4.1.3 Involved HW/SW

ERAW/S Platform ERAW/S SW

#### 6.4.1.4 Test Data

Flash Flood Data

#### 6.4.1.5 Procedure steps

<i>TC-UL-ERAS-FFNBA-001-PC01 Step:</i>				
<i>Step</i>	<i>Action</i>	<i>Expected Result</i>	<i>OK/not OK</i>	<i>Remarks</i>
001	Click on the Event to select the event to Analyse	Event selected		
002	Select the Local Model from the options provided – a number of text fields are automatically filled as a result of this selection	Local Model selected		
003	Start the analysis by clicking the “Analysis” Button.	Analysis Starts		
004	Select the “Situation Analysis” node in the left tree to visualize the results of the analysis.	The Layers and map are correctly displayed on the GUI.		
005	Check the database contents to ensure that data from the analysis is inside the ERAW/S database.	Data is inside the shared ERAW/S database		

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

## 6.4.2 TP-UL-ERAS-FFNBA-002: DB FF Neighbourhood Analysis Circle

### 6.4.2.1 Purpose

To ensure that circle model Flash Flood data is correctly and appropriately managed and stored inside the ERAW/S Database.

### 6.4.2.2 Special Requirement

Flash Flood incoming data from ERAW

### 6.4.2.3 Involved HW/SW

ERAW/S Platform ERAW/S SW

### 6.4.2.4 Test Data

Flash Flood Data

### 6.4.2.5 Procedure steps

<i>TC-UL-ERAS-FFNBA-002-PC01 Step:</i>				
<i>Step</i>	<i>Action</i>	<i>Expected Result</i>	<i>OK/not OK</i>	<i>Remarks</i>
001	Click on the Event list to select the event to Analyse	Event selected		
002	Select the Circle Model from the options provided – a number of text fields are automatically filled as a result of this selection	Circle Model selected		
003	Start the Analysis by clicking the “Analysis” Button.	Analysis starts		
004	Select the “Situation Analysis” node in the left tree to visualize the results of the analysis	The Layers and map are correctly displayed on the GUI.		
005	Check the database contents to ensure that data from the analysis is inside the ERAW/S database.	Data is inside the shared ERAW/S database		

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

## 6.4.3 TP-UL-ERAS-FFNBA-003: DB FF Neighbourhood Analysis Polygon

### 6.4.3.1 Purpose

To ensure that polygon model Flash Flood data is correctly and appropriately managed and stored inside the ERAW/S Database.

### 6.4.3.2 Special Requirement

Flash Flood incoming data from ERAW

### 6.4.3.3 Involved HW/SW

ERAW/S Platform ERAW/S SW

### 6.4.3.4 Test Data

Flash Flood Data

### 6.4.3.5 Procedure steps

<b>TC-UL-ERAS-FFNBA-003-PC01 Step:</b>				
<b>Step</b>	<b>Action</b>	<b>Expected Result</b>	<b>OK/not OK</b>	<b>Remarks</b>
001	Click on the Event list to select the event to Analyse	Event selected in the list		
002	Select the Polygon Model and fill in the fields provided.	Polygon Model selected		
003	Start the Analysis by clicking the "Analysis" Button.	Analysis Starts		
004	Select the "Situation Analysis" node in the left tree to visualize the results of the analysis.	The Layer And the map are correctly displayed on the GUI.		
005	Check the database contents to ensure that data from the analysis is inside the ERAW/S database.	Data is inside the shared ERAW/S database		

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

## 6.4.4 TP-UL-ERAS-HWNBA-001: DB HW Neighbourhood Analysis Local

### 6.4.4.1 Purpose

To ensure that local model high winds data is correctly and appropriately managed and stored inside the ERAW/S Database.

### 6.4.4.2 Special Requirement

High Wind incoming data from ERAW

### 6.4.4.3 Involved HW/SW

ERAW/S Platform ERAW/S SW

### 6.4.4.4 Test Data

High Wind Data

### 6.4.4.5 Procedure steps

<b><i>TC-UL-ERAS-HWNBA-001-PC01 Step:</i></b>				
<b><i>Step</i></b>	<b><i>Action</i></b>	<b><i>Expected Result</i></b>	<b><i>OK/not OK</i></b>	<b><i>Remarks</i></b>
001	Click on the Event list to select the event to Analyse	Event selected		
002	Select the Local Model and fill in the fields provided	Local Model selected		
003	Start the Analysis by clicking the "Analysis" Button.	Analysis Starts		
004	Select the "Situation Analysis" node in the left tree to visualize the results of the analysis	The Layer and the map are correctly displayed on the GUI.		
005	Check the database contents to ensure that data from the analysis is inside the ERAW/S database.	Data is inside the shared ERAW/S database		

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

## 6.4.5 TP-UL-ERAS-HWNBA-002: DB HW Neighbourhood Analysis Circle

### 6.4.5.1 Purpose

To ensure that circle model high winds data is correctly and appropriately managed and stored inside the ERAW/S Database.

### 6.4.5.2 Special Requirement

High Wind incoming data from ERAW

### 6.4.5.3 Involved HW/SW

ERAW/S Platform ERAW/S SW

### 6.4.5.4 Test Data

High Wind Data

### 6.4.5.5 Procedure steps

<b><i>TC-UL-ERAS-HWNBA-002-PC01 Step:</i></b>				
<b><i>Step</i></b>	<b><i>Action</i></b>	<b><i>Expected Result</i></b>	<b><i>OK/not OK</i></b>	<b><i>Remarks</i></b>
001	Click on the Event list to select the event to Analyse	Event selected in the list		
002	Select the circle Model and fill in the fields provided	Circle model selected		
003	Start the Analysis by clicking the "Analysis" Button.	Analysis Starts		
004	Select the "Situation Analysis" node in the left tree to visualize the results of the analysis.	The Layer And the map are correctly displayed on the GUI.		
005	Check the database contents to ensure that data from the analysis is inside the ERAW/S database.	Data is inside the shared ERAW/S database		

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

## 6.4.6 TP-UL-ERAS-HWNBA-003: DB HW Neighbourhood Analysis Polygon

### 6.4.6.1 Purpose

To ensure that polygon model high winds data is correctly and appropriately managed and stored inside the ERAW/S Database.

### 6.4.6.2 Special Requirement

High Wind incoming data from ERAW

### 6.4.6.3 Involved HW/SW

ERAW/S Platform ERAW/S SW

### 6.4.6.4 Test Data

High Wind Data

### 6.4.6.5 Procedure steps

<b>TC-UL-ERAS-HWNBA-003-PC01 Step:</b>				
<b>Step</b>	<b>Action</b>	<b>Expected Result</b>	<b>OK/not OK</b>	<b>Remarks</b>
001	Click on the Event list to select the event to Analyse	Event selected in the list		
002	Select the polygon Model and fill in the fields provided	Polygon model selected		
003	Start the Analysis by clicking the "Analysis" Button.	Analysis Starts		
004	Select the "Situation Analysis" node in the left tree to visualize the results of the Analysis.	The Layer And the map are correctly displayed on the GUI.		
005	Check the database contents to ensure that data from the analysis is inside the ERAW/S database.	Data is inside the shared ERAW/S database		

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

## 6.4.7 TP-UL-ERAS-CHNBA-001: DB CH Neighbourhood Analysis Local

### 6.4.7.1 Purpose

To ensure that local model chemical incident data is correctly and appropriately managed and stored inside the ERAW/S Database.

### 6.4.7.2 Special Requirement

High Wind incoming data from ERAW

### 6.4.7.3 Involved HW/SW

ERAW/S Platform ERAW/S SW

### 6.4.7.4 Test Data

High Wind Data

### 6.4.7.5 Procedure steps

<b>TC-UL-ERAS-CHNBA-001-PC01 Step:</b>				
<i>Step</i>	<i>Action</i>	<i>Expected Result</i>	<i>OK/not OK</i>	<i>Remarks</i>
001	Click on the Event list to select the event to Analyse	Event selected in the list		
002	Select the local Model and fill in the fields provided	Local model selected		
003	Start the Analysis by clicking the Analysis Button.	Analysis Starts		
004	Select the "Situation Analysis" node in the left tree to visualize the results of the analysis.	The Layer And the map are correctly displayed on the GUI.		
005	Check the database contents to ensure that data from the analysis is inside the ERAW/S database.	Data is inside the shared ERAW/S database		

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

## 6.4.8 TP-UL-ERAS-CHNBA-002: DB CH Neighbourhood Analysis Circle

### 6.4.8.1 Purpose

To ensure that circle model chemical incident data is correctly and appropriately managed and stored inside the ERAW/S Database.

### 6.4.8.2 Special Requirement

High Wind incoming data from ERAW

### 6.4.8.3 Involved HW/SW

ERAW/S Platform ERAW/S SW

### 6.4.8.4 Test Data

High Wind Data

### 6.4.8.5 Procedure steps

<b>TC-UL-ERAS-HWNBA-002-PC01 Step:</b>				
<b>Step</b>	<b>Action</b>	<b>Expected Result</b>	<b>OK/not OK</b>	<b>Remarks</b>
001	Click on the Event list to select the event to Analyse	Event selected in the list		
002	Select the circle Model and fill in the fields provided	Circle model selected		
003	Start the Analysis by clicking the "analysis" Button.	Analysis Starts		
004	Select the "Situation Analysis" node in the left tree to visualize the results of the analysis.	The Layer And the map are correctly displayed on the GUI.		
005	Check the database contents to ensure that data from the analysis is inside the ERAW/S database.	Data is inside the shared ERAW/S database		

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

## 6.4.9 TP-UL-ERAS-CHNBA-003: DB CH Neighbourhood Analysis Polygon

### 6.4.9.1 Purpose

To ensure that polygon model chemical incident data is correctly and appropriately managed and stored inside the ERAW/S Database.

### 6.4.9.2 Special Requirement

High Wind incoming data from ERAW

### 6.4.9.3 Involved HW/SW

ERAW/S Platform ERAW/S SW

### 6.4.9.4 Test Data

High Wind Data

### 6.4.9.5 Procedure steps

<b>TC-UL-ERAS-CHNBA-003-PC01 Step:</b>				
<b>Step</b>	<b>Action</b>	<b>Expected Result</b>	<b>OK/not OK</b>	<b>Remarks</b>
001	Click on the Event list to select the event to Analyse	Event selected in the list		
002	Select the polygon Model and fill in the fields provided	Polygon model selected		
003	Start the Analysis by clicking the "Analysis" Button.	Analysis Starts		
004	Select the "Situation Analysis" node in the left tree to visualize the Analysis results.	The Layer And the map are correctly displayed on the GUI.		
005	Check the database contents to ensure that data from the analysis is inside the ERAW/S database.	Data is inside the shared ERAW/S database		

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

## 6.4.10 TP-UL-ERAS-SAN-001: Situation Analysis

### 6.4.10.1 Purpose

To ensure the following;

- Data coming from Model Analysis is correctly and appropriately managed in the ERAS
- The layer is correctly and appropriately received and displayed
- The image map is correctly and appropriately received and displayed

### 6.4.10.2 Special Requirement

Incoming data from NB analysis

### 6.4.10.3 Involved HW/SW

ERAW/S Platform ERAW/S SW

### 6.4.10.4 Test Data

Layer and Map from GIS

### 6.4.10.5 Procedure steps

<i>TC-UL-ERAS-SAN-001-PC01 Step:</i>				
<i>Step</i>	<i>Action</i>	<i>Expected Result</i>	<i>OK/not OK</i>	<i>Remarks</i>
001	Select the "Situation Analysis" node in the left tree to visualize the results of the analysis after a previous analysis has been raised	The Layer And the map are correctly and appropriately displayed on the GUI.		
002	Select/Deselect Items layer	Items layer appears or disappears from within the view as appropriate		
003	Select a layer, and then a map indicator shape: Point/Circle/Rectangle/Polygon	All layer items inside the defined shape are listed		
004	Select and item for detailed analysis	A dialog is displayed with details of the selected item		

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

## 6.5 **MODELS UNIT TEST CASES**

### 6.5.1 **TC-UL-MOD-NBH-001: Neighbourhood Analysis**

#### 6.5.1.1 **Test Item(s)**

The JRC NBH model

#### 6.5.1.2 **Input Specification**

Closed path defined in lat-lon couples of coordinates provided from URL <http://dmaasgard.jrc.org:8080/sderunner/WebRoot/newVersion/runModel.jsp?model=NBH3&polygon=x,y,x,y...>

#### 6.5.1.3 **Output Specification**

XML file containing results, i.e. the list of features and the population density within the area described by the polygon.

#### 6.5.1.4 **Environmental Needs**

N/A

#### 6.5.1.5 **Pass/Fail Criteria**

The Model must response to http with an XML file, and the response described in that file must be positive.

#### 6.5.1.6 **Test Procedure Reference**

TP-UL-MOD-NBH-001-PC01: Web interface

### 6.5.2 **TC-UL-MOD-BU-001: High Wind Buffer Generation**

#### 6.5.2.1 **Test Item(s)**

The JRC BU1 model

#### 6.5.2.2 **Input Specification**

List of coordinates, radiuses and timespans provided to URL <http://dmaasgard.jrc.org:8080/sderunner/WebRoot/newVersion/runModel.jsp?model=BU1&coords=x,y,x,y...&radii=r,r...&timespans=t,t...>

#### 6.5.2.3 **Output Specification**

XML file containing results, i.e. the polygon of wind buffer of the requested wind speed.

#### 6.5.2.4 **Environmental Needs**

N/A

#### 6.5.2.5 **Pass/Fail Criteria**

The Model must response to http with an XML file, and the response described in that file must be positive.

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

### **6.5.2.6 Test Procedure Reference**

TP-UL-MOD-BU-001-PC01: Web interface

## **6.5.3 TC-UL-MOD-FP-001: Flood Plain Generation**

### **6.5.3.1 Test Item(s)**

The JRC Flood model

### **6.5.3.2 Input Specification**

River name and Sensor grid measurements to be given as parameters to the web service defined at Closed path defined in lat-lon couples of coordinates provided from URL <http://dmarcgis.jrc.it/flood/flood.asmx>

### **6.5.3.3 Output Specification**

SOAP response containing results, i.e. the polygon representing the flooded area

### **6.5.3.4 Environmental Needs**

N/A

### **6.5.3.5 Pass/Fail Criteria**

The Model must respond to SOAP request with a valid set of data.

### **6.5.3.6 Test Procedure Reference**

TP-UL-MOD-FP-001-PC01: Web interface

## **6.6 MODELS UNIT TEST PROCEDURES**

### **6.6.1 TP-UL-MOD-NBH-001-PC01: Web Interface**

#### **6.6.1.1 Purpose**

To ensure that the service providing the model is up and running correctly

#### **6.6.1.2 Special Requirement**

None

#### **6.6.1.3 Involved HW/SW**

None

#### **6.6.1.4 Test Data**

<http://dmaasgard.jrc.org:8080/sderunner/WebRoot/newVersion/runModel.jsp?model=NBH3&polygon=9,44,9,45,10,45,10,44,9,44>

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

### 6.6.1.5 Procedure steps

<i>TP-UL-MOD-NBH-001-PC01 Step:</i>				
<i>Step</i>	<i>Action</i>	<i>Expected Result</i>	<i>OK/not OK</i>	<i>Remarks</i>
001	Request for the link above	An XML file beginning as <RESPONSE> <STATUS>OK</STATUS>.		

## 6.6.2 TP-UL-MOD-BU-001-PC01: Web Interface

### 6.6.2.1 Purpose

To ensure that the service providing the model is up and running correctly

### 6.6.2.2 Special Requirement

None

### 6.6.2.3 Involved HW/SW

None

### 6.6.2.4 Test Data

<http://dmaasgard.jrc.org:8080/sderunner/WebRoot/newVersion/runModel.jsp?model=BU1&coords=9,44,9,45,10,45,10,44&radii=1,0.5,1,0.5&timespans=10,10,10,10>

### 6.6.2.5 Procedure steps

<i>TP-UL-MOD-BU-001-PC01 Step:</i>				
<i>Step</i>	<i>Action</i>	<i>Expected Result</i>	<i>OK/not OK</i>	<i>Remarks</i>
001	Request for the link above	An XML file beginning as <RESPONSE> <STATUS>OK</STATUS>.		

## 6.6.3 TP-UL-MOD-FP-001-PC01: Web Interface

### 6.6.3.1 Purpose

To ensure that the service providing the model is up and running correctly

### 6.6.3.2 Special Requirement

None

### 6.6.3.3 Involved HW/SW

Flash Flood Simulator

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

### 6.6.3.4 Test Data

Flash Flood Simulator configuration and running simulation

### 6.6.3.5 Procedure steps

<i>TP-UL-MOD-FP-001-PC01 Step:</i>				
<i>Step</i>	<i>Action</i>	<i>Expected Result</i>	<i>OK/not OK</i>	<i>Remarks</i>
001	Start Flash Flood Simulation using Flash Flood Simulator	Flash Flood Simulator running correctly producing valid feeds		
002	Press "Fetch Flood Plain"	An XML describing the polygon as a list of coordinates.		

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

## 7 INTEGRATION TESTING

### 7.1 INTEGRATION TEST CASES

#### 7.1.1 TC-IL-ERAW-ERAS-GUI-001: ERAW-ERAS Interface

##### 7.1.1.1 Test Item(s)

The CHORIST ERAW/ERAS integrated GUI interface

##### 7.1.1.2 Input Specification

None

##### 7.1.1.3 Output Specification

None

##### 7.1.1.4 Environmental Needs

N/A

##### 7.1.1.5 Pass/Fail Criteria

The CHORIST ERAW/ERAS GUI interface will be deemed to have failed this test if it does not incorporate functionality for both the ERAW and ERAS

##### 7.1.1.6 Test Procedure Reference

TP-IL-ERAW-ERAS-GUI-001-PC01: ERAW-ERAS Interface

#### 7.1.2 TC-IL-ERAW-ERAS-DATA-001: ERAW-ERAS Interface

##### 7.1.2.1 Test Item(s)

ERAW/ERAS common database

##### 7.1.2.2 Input Specification

None

##### 7.1.2.3 Output Specification

None

##### 7.1.2.4 Environmental Needs

N/A

##### 7.1.2.5 Pass/Fail Criteria

The ERAW/ERAS database will be deemed to have failed this test if alerts cannot be inserted into the database from the ERAW GUI

##### 7.1.2.6 Test Procedure Reference

TP-IL-ERAW-ERAS-001-DATA-PC01: ERAW-ERAS Interface

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

### **7.1.3 TC-IL-TS-ERAW-TRAIN-001: TS-ERAS Interface**

#### **7.1.3.1 Test Item(s)**

TS/ERAW communication interface

#### **7.1.3.2 Input Specification**

None

#### **7.1.3.3 Output Specification**

None

#### **7.1.3.4 Environmental Needs**

N/A

#### **7.1.3.5 Pass/Fail Criteria**

The TS/ERAW communication interface will be deemed to have failed this test if alerts sent from the training system are no viewable on the ERAW GUI interface

#### **7.1.3.6 Test Procedure Reference**

TP-IL-TS-ERAW-TRAIN-001-PC01: TS-ERAW Interface

### **7.1.4 TC-IL-TS-ERAS-SP3-REP-001: TS-ERAS-SP3 Interface**

#### **7.1.4.1 Test Item(s)**

Reporting template on CHORIST GUI interface

#### **7.1.4.2 Input Specification**

None

#### **7.1.4.3 Output Specification**

None

#### **7.1.4.4 Environmental Needs**

N/A

#### **7.1.4.5 Pass/Fail Criteria**

The CHORIST GUI reporting template will be deemed to have failed this test if alert information and associated alert analysis and assessment output cannot be incorporated into the template and sent to authorities

#### **7.1.4.6 Test Procedure Reference**

TP-IL-TS-ERAS-SP3-REP-001-PC01: TS-ERAW-ERAS Interface

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

## 7.2 INTEGRATION TEST PROCEDURES

### 7.2.1 TP-IL-ERAW-ERAS-GUI-001-PC01

#### 7.2.1.1 Purpose

To verify that the CHORIST user interface incorporates functionality for both the ERAW and ERAS

#### 7.2.1.2 Special Requirement

None

#### 7.2.1.3 Involved HW/SW

ERAW Platform and ERAW Software, ERAS Platform and ERAS Software

#### 7.2.1.4 Test Data

N/A

<b>TP-IL-ERAW-ERAS-GUI-001-PC01 Step:</b>				
<i>Step</i>	<i>Action</i>	<i>Expected Result</i>	<i>OK/not OK</i>	<i>Remarks</i>
001	Start the CHORIST GUI	CHORIST GUI should start revealing the following parent nodes; <b>ERAW</b> ○ Data management <b>ERAS</b> ○ Risk analysis and assessment ○ Communication		

### 7.2.2 TP-IL-ERAW-ERAS-DATA-001-PC01

#### 7.2.2.1 Purpose

To verify that alerts can be inserted into the ERAW/ERAS database using by the ERAW

#### 7.2.2.2 Special Requirement

Ensure that a simulator (e.g. 112, sensor) is available and configured to work with the CHORIST ERAW GUI interface

#### 7.2.2.3 Involved HW/SW

ERAW Platform and ERAW Software, ERAS Platform and ERAS Software

#### 7.2.2.4 Test Data

N/A

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

<b>TP-IL-ERAW-ERAS-DATA-001-PC01 Step:</b>				
<b>Step</b>	<b>Action</b>	<b>Expected Result</b>	<b>OK/not OK</b>	<b>Remarks</b>
001	Start requisite simulator for communicating data to the ERAW	Simulator started		
002	Enable messaging between simulator and ERAW	Messaging enabled		
003	Start the CHORIST GUI	CHORIST GUI started		
004	Post alerts from simulator to ERAW	View alerts from simulator on ERAW GUI interface		
005	Select alerts from ERAW GUI interface and click "import" button	User is prompted with a dialog to confirm or decline the operation		
006	Click "ok"	The alert selected in step 005 above is removed from the ERAW GUI interface and the dialog closes with no errors		

## **7.2.3 TP-IL-TS-ERAW-TRAIN-001-PC01**

### **7.2.3.1 Purpose**

To verify that alerts sent from the training system are viewable on the ERAW GUI interface

### **7.2.3.2 Special Requirement**

Ensure that the Training system is appropriately and correctly configured to send alerts to the ERAW

### **7.2.3.3 Involved HW/SW**

TS Platform and TS Software, ERAW Platform and ERAW Software

### **7.2.3.4 Test Data**

N/A

<b>TP-IL-TS-ERAW-TRAIN-001-PC01 Step:</b>				
<b>Step</b>	<b>Action</b>	<b>Expected Result</b>	<b>OK/not OK</b>	<b>Remarks</b>
001	Start the Training System	Training System started		
002	Enable messaging between TS and ERAW			
003	Start the CHORIST GUI	CHORIST GUI started		
004	Post alerts from TS to ERAW	View alerts from TS on ERAW GUI interface		

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

## 7.2.4 TP-IL-TS-ERAS-SP3-REP-001-PC01

### 7.2.4.1 Purpose

To verify that the CHORIST GUI reporting template provides for the composition of a report and attaching the associated alert analysis and assessment files for dispatch to authorities

### 7.2.4.2 Special Requirement

Ensure that a neighbourhood analysis has been completed.

### 7.2.4.3 Involved HW/SW

TS Platform and TS Software, ERAW Platform and ERAW Software, ERAS Platform and ERAS Software

### 7.2.4.4 Test Data

N/A

<i>TP-IL-TS -ERAS-SP3-REP-001-PC01 Step:</i>				
<i>Step</i>	<i>Action</i>	<i>Expected Result</i>	<i>OK/not OK</i>	<i>Remarks</i>
001	Start the CHORIST GUI	CHORIST GUI should start revealing the following parent nodes; <ul style="list-style-type: none"> <li>o Data management</li> <li>o Risk analysis and assessment</li> <li>o Communication</li> </ul>		
002	Click on communication node	Reporting node is displayed		
003	Click on reporting node	Reporting template dialog is displayed		
004	Compose report of alert in report template provided	Report composed		
005	Attach requisite situational analysis and assessment files	Requisite situational analysis and assessment files attached		
006	Click "preview" button to preview report	All information displayed in preview pane		
007	Click "submit" button to submit report	Information sent to desired destination and dialog closes with no errors		

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

## 8 SYSTEM TESTING

### 8.1 SYSTEM TEST CASES

#### 8.1.1 TC-IL-SP2-PROT-FF-001: Flash Flood

##### 8.1.1.1 Test Item(s)

The SP2 Prototype

##### 8.1.1.2 Input Specification

None

##### 8.1.1.3 Output Specification

None

##### 8.1.1.4 Environmental Needs

N/A

##### 8.1.1.5 Pass/Fail Criteria

The SP2 Prototype will be deemed to have failed this test if it does not support the Flash Flood scenario

##### 8.1.1.6 Test Procedure Reference

TP-IL-SP2-PROT-FF-001-PC01: Flash Flood Scenario

#### 8.1.2 TC-IL-SP2-PROT-CH-001: Chemical Explosion

##### 8.1.2.1 Test Item(s)

The SP2 Prototype

##### 8.1.2.2 Input Specification

None

##### 8.1.2.3 Output Specification

None

##### 8.1.2.4 Environmental Needs

N/A

##### 8.1.2.5 Pass/Fail Criteria

The SP2 Prototype will be deemed to have failed this test if it does not support the Chemical Accident scenario

##### 8.1.2.6 Test Procedure Reference

TP-IL-SP2-PROT-CH-001-PC01: Chemical Accident Scenario

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

### **8.1.3 TC-IL-SP2-PROT-HW-001: High Winds**

#### **8.1.3.1 Test Item(s)**

The SP2 Prototype

#### **8.1.3.2 Input Specification**

None

#### **8.1.3.3 Output Specification**

None

#### **8.1.3.4 Environmental Needs**

N/A

#### **8.1.3.5 Pass/Fail Criteria**

The SP2 Prototype will be deemed to have failed this test if it does not support the High Winds scenario

#### **8.1.3.6 Test Procedure Reference**

TP-IL-SP2-PROT-HW-001-PC01: High Winds

## **8.2 SYSTEM TEST PROCEDURES**

### **8.2.1 TP-IL-SP2-PROT-FF-001-PC01: Flood**

Please refer to SP5.D2<sup>1</sup>

### **8.2.2 TP-IL-SP2-PROT-CH-001-PC01: High Winds**

Please refer to SP5.D2<sup>2</sup>

### **8.2.3 TP-IL-SP2-PROT-HW-001-PC01: Chemical Explosion**

Please refer to SP5.D2<sup>3</sup>

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<sup>1</sup> The system test procedure for the flood scenario is defined in a separate document entitled Report on system demonstration trial definition (final version –SP5.D2). Please refer to it for details.

<sup>2</sup> The system test procedure for the chemical incident scenario is defined the Report on system demonstration trial definition (final version –SP5.D2). Please refer to it for details.

<sup>3</sup> The system test procedure for the high winds scenario is defined in the Report on system demonstration trial definition (final version –SP5.D2). Please refer to it for details.

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

## 9 APPENDIX

The following table correlates each test case with its associated test procedure(s).

Test Case	Test Procedure
<b>Unit Test Cases and Procedures</b>	
<b>ERAW</b>	
TC-UL-ERAW-DMC-001	TP-UL-ERAW-DMC-001-PC01:DataManagement Check
TC-UL-ERAW-GAM-001	TP-UL-ERAW-GAM-001-PC01: General Alert management
TC-UL-ERAW-GAM-002	TP-UL-ERAW-GAM-001-PC01: General Alert management
	TP-UL-ERAW-GAM-002-PC01: General Alert Management
TC-UL-ERAW-GAM-003	TP-UL-ERAW-GAM-001-PC01: General Alert management
	TP-UL-ERAW-GAM-003-PC01: General Alert Management
TC-UL-ERAW-GAM-004	TP-UL-ERAW-GAM-001-PC01: General Alert management
	TP-UL-ERAW-GAM-004-PC01: General Alert Management
TC-UL-ERAW-DSC-001	TP-UL-ERAW-DMC-001-PC01: Data Management Check
	TP-UL-ERAW-DSC-001-PC01: Data Sender Configuration
TC-UL-ERAW-DSC-002	TP-UL-ERAW-DMC-001-PC01: Data Management Check
	TP-UL-ERAW-DSC-001-PC01: Data Sender Configuration
	TP-UL-ERAW-DSC-002-PC01: Data Sender Configuration
TC-UL-ERAW-DSC-003	TP-UL-ERAW-DMC-001-PC01: Data Management Check
	TP-UL-ERAW-DSC-001-PC01: Data Sender Configuration
	TP-UL-ERAW-DSC-003-PC01: Data Sender Configuration
TC-UL-ERAW-DA-001	TP-UL-ERAW-DMC-001-PC01: Data Management Check
	TP-UL-ERAW-DA-001-PC01: Data Acquisition
TC-UL-ERAW-DA-002	TP-UL-ERAW-DMC-001-PC01: Data Management Check
	TP-UL-ERAW-DA-001-PC01: Data Acquisition
	TP-UL-ERAW-DA-002-PC01: Data Acquisition
TC-UL-ERAW-DA-003	TP-UL-ERAW-DMC-001-PC01: Data Management Check
	TP-UL-ERAW-DA-001-PC01: Data Acquisition
	TP-UL-ERAW-DA-003-PC01: Data Acquisition
TC-UL-ERAW-EM-001	TP-UL-ERAW-DMC-001-PC01: Data Management Check
	TP-UL-ERAW-EM-001-PC01: Event Management
TC-UL-ERAW-EM-002	TP-UL-ERAW-DMC-001-PC01: Data Management Check
	TP-UL-ERAW-EM-001-PC01: Event Management
	TP-UL-ERAW-EM-002-PC01: Event Management
TC-UL-ERAW-EM-003	TP-UL-ERAW-DMC-001-PC01: Data Management Check

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

Test Case	Test Procedure
	TP-UL-ERAW-EM-001-PC01: Event Management
	TP-UL-ERAW-EM-003-PC01: Event Management
TC-UL-ERAW-EM -004	TP-UL-ERAW-DMC-001-PC01: Data Management Check
	TP-UL-ERAW-EM-001-PC01: Event Management
	TP-UL-ERAW-EM-004-PC01: Event Management
TC-UL-ERAW-EM -005	TP-UL-ERAW-DMC-001-PC01: Data Management Check
	TP-UL-ERAW-EM-001-PC01: Event Management
	TP-UL-ERAW-EM-005-PC01: Event Management
TC-UL-ERAW-EM -006	TP-UL-ERAW-DMC-001-PC01: Data Management Check
	TP-UL-ERAW-EM-001-PC01: Event Management
	TP-UL-ERAW-EM-005-PC01: Event Management
	TP-UL-ERAW-EM-006-PC01: Event Management
TC-UL-ERAW-MEM-001	TP-UL-ERAW-DMC-001-PC01: Data Management Check
	TP-UL-ERAW-MEM-001-PC01:Multirisk Event Management
TC-UL-ERAW-MEM-002	TP-UL-ERAW-DMC-001-PC01: Data Management Check
	TP-UL-ERAW-MEM-001-PC01:Multirisk Event Management
	TP-UL-ERAW-MEM-002-PC01:Multirisk Event Management
TC-UL-ERAW-MEM-003	TP-UL-ERAW-DMC-001-PC01: Data Management Check
	TP-UL-ERAW-MEM-001-PC01:Multirisk Event Management
	TP-UL-ERAW-MEM-003-PC01:Multirisk Event Management
TC-UL-ERAW-MEM-004	TP-UL-ERAW-DMC-001-PC01: Data Management Check
	TP-UL-ERAW-EM-001-PC01: Event Management
	TP-UL-ERAW-EM-004-PC01: Event Management
TC-UL-ERAW-MEM-005	TP-UL-ERAW-DMC-001-PC01: Data Management Check
	TP-UL-ERAW-MEM-001-PC01:Multirisk Event Management
	TP-UL-ERAW-MEM-004-PC01:Multirisk Event Management
	TP-UL-ERAW-MEM-005-PC01:Multirisk Event Management
<b>ERAS</b>	
TP-UL-ERAS-FFNBA-001	TP-UL-ERAS-FFNBA-001-PC01: DB FF NA LOCAL
	TP-UL-ERAS-FFNBA-002-PC01: DB FF NA CIRCLE
	TP-UL-ERAS-FFNBA-003-PC01: DB FF NA POLYGON
TC-UL-ERAS-NBA-002	TP-UL-ERAS-HWNBA-001-PC01: HW NA LOCAL
	TP-UL-ERAS-HWNBA-002-PC01: HW NA CIRCLE
	TP-UL-ERAS-HWNBA-003-PC01: HW NA POLYGON
TC-UL-ERAS-NBA-003	TP-UL-ERAS-CHNBA-001-PC01: CH NA LOCAL
	TP-UL-ERAS-CHNBA-002-PC01: CH NA CIRCLE

Project: CHORIST	Deliv. ref.: SP2.D5
EC contract: 033685	Deliv. title: System Test Plan
	Deliv. version: 1.1
	Submission date: 15/10/09

Test Case	Test Procedure
	TP-UL-ERAS-CHNBA-003-PC01: CH NA POLYGON
TC-UL-ERAS-SAN-001	TP-UL-ERAS-SAN-001-PC01: Situation Analysis
<b>Models</b>	
TC-UL-MOD-NBH-001	TP-UL-MOD-NBH-001-PC01: Web interface
TC-UL-MOD-BU-001	TP-UL-MOD-BU-001-PC01: Web interface
TC-UL-MOD-FP-001	TP-UL-MOD-FP-001-PC01: Web interface
<b>Integration Test Cases and Procedures</b>	
TC-IL-ERAW-ERAS-GUI-001	TP-IL-ERAW-ERAS-GUI-001-PC01: ERAW-ERAS Interface
TC-IL-ERAW-ERAS-DATA-001	TP-IL-ERAW-ERAS-001-DATA-PC01: ERAW-ERAS Interface
TC-IL-TS-ERAW-TRAIN-001	TP-IL-TS-ERAW-TRAIN-001-PC01: TS-ERAW Interface
TC-IL-TS-ERAS-SP3-REP-001	TP-IL-TS-ERAS-SP3-REP-001-PC01: TS-ERAW-ERAS Interface
<b>System Test Cases and Procedures</b>	
TC-IL-SP2-PROT-FF-001	TP-IL-SP2-PROT-FF-001-PC01: Flash Flood Scenario
TC-IL-SP2-PROT-CH-001	TP-IL-SP2-PROT-CH-001-PC01: Chemical Accident Scenario
TC-IL-SP2-PROT-HW-001	TP-IL-SP2-PROT-HW-001-PC01: High Winds Scenario