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Document History	

## Document History

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# 1 INTRODUCTION

## 1.1 PURPOSE OF THE DOCUMENT

The purpose of the User Manual for EMCS Testing Application (TA) is to guide the Member State Administration (MSAs) to test their National Excise Applications (NEAs) against predefined specifications.

## 1.2 SCOPE OF THE DOCUMENT

The EMCS Testing Applications (TA) functionality is divided as follows:

- Mode-1: National Compliance Testing [R2];
- Mode-2: Conformance Testing [R4].

## 1.3 INTENDED READERSHIP

The intended readers of this document are any participants in the Excise Movement and Control System. In particular, they are:

- DG TAXUD;
- The persons responsible for the development of the EMCS applications;
- The persons responsible for the testing of the EMCS applications;
- The persons responsible for the deployment of the EMCS applications.

## 1.4 STRUCTURE OF THE DOCUMENT

The document is structured as follows:

- Chapter 1 – Introduction, summarises the purpose, scope and intended readership of this document;
- Chapter 2 – Reference documents, lists the documents that are referenced or applicable to this document;
- Chapter 3 – Terminology, includes the abbreviations, acronyms and definitions that are used in the document;
- Chapter 4 – Overview of EMCS Testing Application, gives an overview of the Testing Applications;
- Chapter 5 – Describes the Web Interface Layout (UI) and the web interface features;
- Chapter 6 – Mode-1 Testing operation Mode, describes in detail all the functionality provided for Mode-1 Operators;
- Chapter 7 – Mode-2 Testing operation Mode, describes in detail all the functionality provided for Mode-2 Operators.

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## 2 REFERENCE DOCUMENTS

Ref.	Reference	Title	Release
R1	ECP3-FITSDEV2-DDNEA	DDNEA for EMCS Phase 3	1.51
R2	ECP3-FITSDEV2-ACS	Acceptance and Certification Specification	1.00
R3	ECP1-ESS-GLT	EMCS Glossary of Terms (GLT)	2.04
R4	ECP2-FITSDEV2-CTP	Conformance Test Protocol for EMCS Phase 2	2.08
R5	ECP3-FITSDEV2-CTP	Conformance Test Protocol for EMCS Phase 3	1.21
R6	ECP3-FITSDEV2-TA-SRD	System Requirements Definition for Testing Applications	1.08
R7	ECP3-FITSDEV2-TA-TSS	Technical System Specifications for TA	1.05

*Table 1: Reference Documents*

FITSDEV2	REF: ECP3-FITSDEV2-TA-UMN
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## 3 TERMINOLOGY

### 3.1 ABBREVIATIONS AND ACRONYMS

Acronym	Description
AAD	Administrative Accompanying Document
ACL	Access Control List
ARC	AAD Reference Code
CCN	Common Communication Network
CD	Common Domain
CorrelID	Correlation ID
CPT	Central Project Team
CS	Central Services
CSI	Common Systems Interface
CT	Conformance Testing
CTP	Conformance Test Protocol
DDNEA	Design Document for National Excise Applications
DG TAXUD	Taxation & Customs Union Directorate General
e-AAD	Electronic Administrative Accompanying Document
EBP	Elementary Business Process
ECP	EMCS Computerisation Project
ED	External Domain
EMCS	Excise Movement Control System
EMCS/CO	EMCS Central Operations
ESS	EMCS System Specifications
FESS	Functional Excise System Specification
FS	Functional Stage
ID	Identification
IE	Information Exchange
LCT	Local Client Testing (CCN/CSI mode)
MOD1	Mode-1
MOD2	Mode-2
MSA	Member State Administration
Msg	Message
MsgID	Message Identification
ND	National Domain
NEA	National Excise Application
PSS	Phasing and Scope Specification

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<b>Acronym</b>	<b>Description</b>
RD	Reference Data
RoR	Report of Receipt
SEED	System for Exchange of Excise Data
SOA	Service-Oriented Architecture
SQL	Structured Query Language
SR	Security Requirement
TA	Testing Application
TESS	Technical Excise System Specification
TR	Technical Requirement
UC	Use Case
UI	User Interface
UML	Unified Modelling Language
UR	Usability Requirement
UTF	Universal Character Set Transformation Format
WS	Web Services
XML	EXtensible Mark-up Language
XSD	XML Schema Definition

*Table 2: Abbreviations and Acronyms*

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## 4 OVERVIEW OF EMCS TESTING APPLICATION

EMCS Testing Application (TA) is a tool which allows the MSAs to test their National Excise Applications (NEAs) according to the definition of the National Compliance Testing (Mode-1) and the Conformance Testing (Mode-2). As such the TA supports two modes:

- Mode-1 Testing (National Compliance Testing);
- Mode-2 Testing (Conformance Testing).

Starting with version 2.0, TA is capable of supporting both Phase 2 (Functional Stage 1) and Phase 3 (Functional Stage 2) operations.

### 4.1 TESTING APPLICATIONS USER TYPES

TA (Testing Application) version 2 has two types of users accessible by the MSA:

- Functional Stage 1 (FS1) Testing Operator;
- Functional Stage 2 (FS2) Testing Operator.

Both FS1 and FS2 profiles have access to both Mode-1 and Mode-2 Operations.

The Testing Application Administrator user is only accessible by the EMCS/CO and will be also able to perform the Mode-2 Testing Operator actions (specified for the testers in the National Domain) and Mode-1 Testing Operator actions in order for him/her to sustain the execution of test scenarios in case such a need arises. Furthermore, the Testing Application Administrator is in charge of administering and maintaining the Testing Application by performing the following actions:

- Set up the test environment in order for a Mode-2 Test session to be initiated;
- Manage scenarios (uploading a new or deleting an existing CTP Defined or MSA defined scenario);
- Manage IE instances (uploading a new or deleting an existing CTP Defined or MSA defined IE).

The user interface of TA depends on the type of user logged in.

## 4.2 MODE-1

### 4.2.1 MODE-1 TESTING FUNCTIONALITY PURPOSE & GENERAL PRINCIPLES

The Mode-1 Testing functionality of the TA is used by the MSAs during Mode-1 Testing to test the conformity of their National Excise Application (NEA) against the specification for the Common Domain (CD) and the External Domain (ED) ([R1], [R2]), either for FS1 or for FS2. For this purpose, the Mode-1 Testing functionality supports two different operational modes for the TA, the CD and the ED. Specifically in the CD operational mode, the TA will simulate an NEA (MSA site) sending and receiving IEs to/from the NEA under test over the CD. In the ED operational mode, the TA will operate as an Economic Operator application sending and receiving IEs to/from the NEA under test over the ED.

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## 4.2.2 SCOPE OF TESTING APPLICATIONS IN MODE-1 TESTING

The scope of the TA in Mode-1 Testing depends on their operational mode (CD or ED).

Specifically in the CD operational mode, the TA can act according to the following roles:

In FS1:

- MSA of Dispatch;
- MSA of Destination.

In FS2:

- MSA of Dispatch;
- MSA at Destination;
- Former MSA of Destination;
- MSA Submission application;
- MSA Event application;
- MSA Control application;
- MSA Interruption application;
- Issuing MSA;
- MSA Claiming application;
- Addressed MSA;
- Requested MSA;
- Requesting MSA.

When the behaviour of an NEA under a specific role needs to be tested against the CD specifications, the TA shall simulate a different MSA role. For instance, in order to test the behaviour of an NEA when it operates as an MSA of Destination, the TA can operate as an MSA of Dispatch.

During Mode-1 Testing, it will be possible for the user to send and receive IEs that are not defined for the role played by the TA in order to test the behaviour of the NEA under test when an unsupported IE type for its role is received.

Table 3 and 4 depict the messages that are sent from/received by the TA during Mode-1 Testing when they operate in the CD operational mode. The role that the TA plays when sending or receiving each message is illustrated in the “From” and “To” columns, respectively. These are valid combinations of role/domain with positive results of sending corresponding messages, but they are not exclusive.

IE	Reference	From	To
IE701	C_REQ_SUB	All	All
IE702	C_REQ_REF	All	All
IE801	C_AAD_VAL	MSA of Dispatch	MSA of Destination
IE802	C_EXC_REM	MSA of Dispatch	MSA of Destination
IE810	C_CAN_DAT	MSA of Dispatch	MSA of Destination
IE813	C_UPD_DAT	MSA of Dispatch	MSA of Destination
IE818	C_DEL_DAT	MSA of Destination	MSA of Dispatch
IE821	C_LST_VAL	MSA of Dispatch	MSA of Destination
IE837	C_DEL_EXP	All	All
IE904	C_STD_REQ	MSA of Dispatch	MSA of Destination
IE905	C_STD_RSP	MSA of Destination	MSA of Dispatch
IE906	C_FUN_NCK	All	All
IE917	C_XML_NCK	All	All

Table 3: Common Domain Messages in Mode-1 Testing for FS1

IE	Reference	From	To
IE701	C_REQ_SUB	MSA of Destination/ Requesting MSA	MSA of Dispatch
IE702	C_REQ_REF	MSA of Dispatch	MSA of Destination/ Requesting MSA
IE717	C_CCR_DAT	MSA of control	MSA of Dispatch/ MSA of Destination
IE721	C_COO_SUB	All_P2	All_P2
IE801	C_AAD_VAL	MSA of Dispatch	MSA of Destination
IE802	C_EXC_REM	MSA of Dispatch	MSA of Destination
IE803	C_EXC_REM	MSA of Dispatch	MSA of Destination
IE807	C_STP_NOT	All_P2/ MSA Interruption	All
IE810	C_CAN_DAT	MSA of Dispatch	MSA of Destination
IE813	C_UPD_DAT	MSA of Dispatch	MSA of Destination
IE818	C_DEL_DAT	MSA of Destination	MSA of Dispatch
IE819	C_REJ_DAT	MSA of Destination	MSA of Dispatch
IE820	C_HIM_RES	All_P2	All_P2

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IE	Reference	From	To
IE821	C_LST_VAL	MSA of Dispatch	MSA of Destination/ Requesting MSA
IE829	C_EXP_NOT	MSA of Destination	MSA of Dispatch
IE837	C_DEL_EXP	MSA of Dispatch/ MSA of Destination	MSA of Dispatch/ MSA of Destination
IE839	C_CUS_REJ	MSA of Destination	MSA of Dispatch
IE840	C_EVT_DAT	All_P2	All_P2
IE840	C_EVT_DAT	MSA Submission/ MSA Event	MSA Event/ MSA Submission
IE840	C_EVT_DAT	MSA Submission/ MSA Event	All_P2
IE840	C_EVT_DAT	All_P2/	MSA Submission/ MSA Event
IE861	C_RES_DAT	All_P2/Claiming MSA	MSA Dispatch
IE867	C_COO_RES	Issuing MSA	Addressed MSA
IE868	C_COO_ANS	Requested MSA	Requesting MSA
IE868	C_COO_ANS	Requested MSA/ All_P2	All_P2/Requesting MSA
IE869	C_COO_REM	All_P2	All_P2/Requested MSA
IE871	C_SHR_EXP	MSA of Dispatch/ MSA of Destination	MSA of Dispatch/ MSA of Destination
IE904	C_STD_REQ	All	MSA of Dispatch/ MSA of Destination
IE905	C_STD_RSP	MSA of Dispatch/ MSA of Destination	All
IE906	C_FUN_NCK	All	All
IE917	C_XML_NCK	All	All
IE934	C_PAC_DAT	MSA of Dispatch	All_P2

Table 4: Common Domain Messages in Mode-1 Testing for FS2

Where the “All\_P2” in table 4 is linked to the business roles used for EMCS Phase 2 and more specifically to the following business roles:

- MSA of Destination;
- MSA of Dispatch;
- New MSA of Destination;
- Requesting MSA.

In the ED operational mode, the TA can act according to the following two roles:

- Consignor;
- Consignee.

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When the behaviour of an NEA under a specific role needs to be tested against the ED specifications, the TA shall simulate the corresponding Economic Operator role. For instance, in order to test the behaviour of an NEA when it operates as an MSA of Destination, the TA shall operate as Consignee.

Table depict the messages that are sent from/received by the TA during Mode-1 Testing when they operate in the ED operational mode. Similarly to Table 3 and 4, the role that the TA plays when sending or receiving each message is illustrated in the “From” and “To” columns, respectively. These are valid combinations of role/domain with positive results of sending corresponding messages, but they are not exclusive.

IE	Reference	From	To
IE801	C_AAD_VAL	MSA of Destination	Consignee
IE802	C_EXC_REM	MSA of Dispatch	Consignor
IE803	C_AAD_NOT	MSA of Destination	Consignee
IE813	C_UPD_DAT	Consignor	MSA of Dispatch
IE815	N_AAD_SUB	Consignor	MSA of Dispatch
IE818	C_DEL_DAT	Consignee	MSA of Destination
IE837	C_DEL_EXP	Consignor	MSA of Dispatch
IE837	C_DEL_EXP	Consignee	MSA of Destination

Table 5: External Domain Messages in Mode-1 Testing in FS1

IE	Reference	From	To
IE704	N_REJ_DAT	MSA Destination	Consignee
IE801	C_AAD_VAL	MSA of Destination	Consignee
IE802	C_EXC_REM	MSA of Dispatch	Consignor
IE803	C_AAD_NOT	MSA of Destination	Consignee
IE807	C_STP_NOT	MSA of Dispatch	Consignor
IE810	C_CAN_DAT	Consignor	MSA of Dispatch
IE813	C_UPD_DAT	Consignor	MSA of Dispatch
IE815	N_AAD_SUB	Consignor	MSA of Dispatch
IE818	C_DEL_DAT	Consignee	MSA of Destination
IE819	C_REJ_DAT	MSA of Dispatch	Consignor
IE825	E_SUPL_SUB	Consignor	MSA of Dispatch
IE829	C_EXP_NOT	MSA of Dispatch/Export	Consignor
IE837	C_DEL_EXP	Consignor	MSA of Dispatch
IE837	C_DEL_EXP	Consignee	MSA of Destination
IE839	C_CUS_REJ	MSA of Dispatch	Consignor
IE840	C_EVT_DAT	MSA of Dispatch	Consignor
IE871	C_SHR_EXP	Consignor	MSA of Dispatch

Table 6: External Domain Messages in Mode-1 Testing in FS2

### 4.2.3 OVERVIEW OF MODE-1 TESTING FUNCTIONALITY

The Mode-1 Testing functionality of the TA can be divided into six main functions:

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- The support of an internal Reference Data;
- The support of an internal Instantiation Data Repository;
- The support of an IE repository;
- The verification of an IE;
- The logging of all actions performed and the outcome of those actions;
- The consultation of the logs.

When the TA starts performing Mode-1 Testing, the user will be able to start a test session. Only one test session per test user at a time is supported. When the user starts a test session, the user can start sending and receiving IEs. Before sending a message, the user will have to select:

- The mode of operation of the TA for executing Mode-1 Testing (CD or ED);
- The role played by the NEA;
- The role played by the TA;
- The country played by the TA during Mode-1 Testing.

Furthermore, the user will be able to update the test data just before sending an IE.

From the moment a test session is started, the logging functionality is enabled and all actions (send, receive, validate) are logged. A test session continues until the user specifies to stop the test session. After this, the logging of all actions is stopped and the logging data is available to the user.

Additionally, in order to support the Mode-1 Testing, the TA enables the user to update the repositories that the TA maintains for the Mode-1 Testing. More specifically, the user will be provided with the means to update the repository that holds the instantiation data files (XML messages) that contain country specific information used every time an IE message is loaded from the IE repository. The latter can also be updated by the user since he/she will be able to either create or add a new IE (based upon an empty template, based upon an existing IE or from an uploaded file) in the repository, or update the content of an existing IE.

As far as the reference data repository is concerned, the user is also able to update it by importing to the system the relevant IEs (i.e. IE713, IE734, and IE931) that contain the reference data. The Mode-1 Operator has the possibility to update the reference data only for the reference data repository belonging to his/her country.

## 4.3 MODE-2

### 4.3.1 MODE-2 TESTING FUNCTIONALITY PURPOSE & GENERAL PRINCIPLES

The Mode-2 Testing functionality of the TA is used by the MSAs during Mode-2 Testing (Actual Conformance Testing) to test the conformity of their National Excise Application (NEA) against the specifications for the CD ([R1], [R2]).

In addition, the Mode-2 Testing functionality of the TA can be used during the Mode-2 Pre-Conformance Testing to support the MSA defined Testing.

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During Conformance Testing (CT), the TA shall demonstrate that the Common Domain interface of the NEA conforms technically to the internationally agreed CD specifications. For this purpose, the Mode-2 Testing functionality shall support one operational mode for the TA, the CD. Specifically in the CD operational mode, the TA will simulate an NEA (MSA site) sending and receiving IEs to/from the NEA under test over the CD.

### 4.3.2 SCOPE OF TESTING APPLICATIONS IN MODE-2 TESTING

In Mode-2 Testing for both EMCS Phase 2 and EMCS Phase 3 the TA can act according to the roles defined in the EMCS Phase 2 CTP [R4] or the EMCS Phase 3 CTP [R5] respectively.

The test scenarios defined in the CTP EMCS Phase 2 CTP [R4] or the EMCS Phase 3 CTP [R5] for the NEA Conformance Testing implies the use of different roles for the NEA and the TA.

In Mode-2 Testing both for EMCS Phase 2 and EMCS Phase 3, the TA is able to play multiple roles in one instance.

The MSAs must ensure that their functionality regarding the sending and receiving of international IEs for EMCS Phase 2 (FS1) and EMCS Phase 3 (FS2) fully covers and is limited to the messages defined in the CTP EMCS Phase 2 CTP [R4] or the EMCS Phase 3 CTP [R5] respectively.

### 4.3.3 OVERVIEW OF MODE-2 TESTING FUNCTIONALITY

In Mode-2 Testing for both EMCS Phase 2 and EMCS Phase 3, the TA is used to execute test scenarios (test scripts) with test data defined in the Conformance Test Protocol for EMCS Phase 2 (CTP [R4]) and EMCS Phase 3 respectively (CTP [R5]) and to verify the outcome of those scripts. In particular, the following elements are needed by the Testing Application in order to perform Mode-2 Testing:

- Test data for EMCS Phase 2 and EMCS Phase 3: Test data will be used by the Testing Application in a fully automated way. Depending on the chosen scenario and EMCS Phase, the system will load the necessary data and process it according to what is defined in the scenario;
- Test scenarios for EMCS Phase 2 and EMCS Phase 3: Test scenarios for both EMCS Phase 2 and EMCS Phase 3 will be available for the remote user to select amongst them. They will define the necessary actions the Testing Application needs to perform for Mode-2 Testing. No changes will be allowed from the remote user.

Furthermore, in Mode-2 Testing, the TA supports the MSA Defined Testing during the Pre-Conformance Testing. The TA can be used to execute MSA Defined test scenarios (test scripts) that have been prepared by the local user (using the CTP database) and have been uploaded by the TA Administrator to the TA scenario repositories. The user will be able to verify the outcome of those scripts in a similar way as he/she does with the CTP Defined scenarios.

The testers in the National Domain, who are responsible for the execution of Mode-2 Testing via a local interface, shall be able to perform the following actions without intervention of the Testing Application Administrator at the EMCS/CO:

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- Set up a scenario in terms of the roles that the TA and the NEA will play, the dataset, and the business category;
- Start/stop the execution of test sessions (including both CTP Defined and MSA Defined scenarios);
- View the results (logs) of the execution of test scenarios;
- Restore archived scenario execution results;
- Create reports for the execution of test scenarios;
- Consult and generate statistical reports on the Conformance scenarios executions.

## 4.4 TECHNICAL CONSTRAINTS

The Testing Application Web Interface is accessible with a standard Web browser with the following technical constraints:

Constraint area	Constraint
Browser Compatibility	The application is tested with following browsers: <ul style="list-style-type: none"> <li>• Mozilla Firefox version 3.x.x or later;</li> <li>• Microsoft Internet Explorer version 7.0.x or later for Windows (recommended);</li> <li>• JavaScript enabled.</li> </ul>
Screen Resolution	Minimum 800x600 pixels
ECMAScript (ECMA-262) Compliance	Edition 3 (JavaScript 1.5)
HTML Compliance	Version 4.01
Character Set Encoding	UTF-8
PDF TApport	PDF version 1.3

*Table 4: Technical Constraints*

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## 5 TA WEB INTERFACE

### 5.1 WEB INTERFACE LAYOUT

The TA web interface layout consists of a [Work Area](#) and of the common interface. The common interface comprises of the following components:

- [Menu](#);
- [User Information Area](#).

The web interface layout is shown in the figure below:

The screenshot displays the EMCS Testing Application Home Page. At the top, there is a header with the European Union flag and the text "Taxation and Customs Union". Below this is a navigation menu with items: Home, Operation Mode, Mode 1 - Configuration&Run, and Data Management. A "FUNCTIONAL STAGE" dropdown is set to "FS2". A welcome message reads "Welcome OPERATOR7-FS1-FS2-USR.DE".

The main content area is titled "» EMCS Testing Application Home Page". Below the title, a paragraph states: "EMCS Testing Application is a tool which allows the MSAs to test the conformance of their National Excise Applications (NEA) with the Common Specifications through Mode-1 and Mode-2 testing."

A section titled "Modes of Testing" features a diagram with three circular nodes connected vertically. The top node is labeled "Mode-1" and has a text box next to it listing:

- After successful completion of Mode-0 testing
- Verifies an integrated application
- Mandatory - Under MSA (National Project Manager) responsibility
- Supported by the TA Mode-1 functionality

The middle node is labeled "Testing Modes". The bottom node is partially visible and has a text box next to it listing:

- After successful completion of Mode-1 testing
- Verifies the interfaces of the NEA with the CD
- Pre-conformance

On the right side of the page, there is a "Quick Links" section with buttons for: upload an ie, clone an ie, create ie from template, edit an ie, and delete an ie. Below this is "EMCS DOCUMENTATION" with links for "DDNEA vers.1.30" and "CTP vers.1.44 Documents". At the bottom right is the "CONTACT ITSM SERVICE DESK" section, providing contact information: Telephone: +30 (210) 920 33 99; Fax: +30 (210) 923 81 92; E-mail: Support@ItsmTaxud.Europa.eu; and ITSM portal: https://itsmtaxud.europa.eu.

Figure 1: Web Page Structural Layout

#### 5.1.1 MENU

The menu provides access to the functionality of the Testing Application web application. The available menu items depend on the [Mode of Operation](#) as well as the privileges of the current user. The menu is located at the top left corner of the interface.

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## 5.1.2 USER INFORMATION AREA

The user information area displays a welcome message, the user currently logged in and it provides several useful links:

- *Functional Stage selection*: depending on the user's associated profiles, he/she might have access to either FS1 or FS2. The Functional Stage selected in this drop-down list remains active throughout the whole session and has the following consequences:
  - user is redirected to the Home page when a different FS is selected;
  - every Test Session created with the current FS selection will be registered, along with its associated LogEvents, belonging to that FS;
  - all the Test Data (templates, messages, scenarios, Instantiation Data, Reference Data etc.) manipulated by the user will be searched and/or retrieved from the repository corresponding to that FS.
- *Runtime Console access link*:

The Runtime Console newly introduced in TA version 2 consists in a panel offering real-time information about events occurring during the Test Session executions in the current web session. For example, the Operator can visualize the same Log Events accessible from the dedicated static screens (View Log Events screen, Test Session Results screen etc.) as they occur in a scrollable, dynamic list.

The Runtime Console can be switched on and off by clicking on its access link, the result being opening/closing of the panel containing the real-time updated data.

The link image can be one of the following:



meaning “runtime console closed, no unread events”,



meaning “runtime console closed, unread events available”,



meaning “runtime console open”.

When open, the Runtime console looks like this:

Each entry in the console takes form of a row which gives a summary of an event containing the occurring time, the event type and its result. If the user wants more details, he/she can click on the corresponding row and a new browser window will

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open up, containing the full event summary and its associated XML, if any, similar as in the static log event viewing screens. The rows are scrollable (either one by one or directly to the first/last row) by using the corresponding panel buttons.

- *Logoff* link image;
- *Connection Status* indicator, which can indicate the following statuses:



Active: The connection is alive and there is a request pending.



Inactive: The connection is alive and there is no pending activity.



Caution: The connection request/response latency has exceeded the configured threshold. Indicates that asynchronous updates from the server may not be received in a timely manner.



Disconnected: The connection has been lost, either due to network or application error (session expiry, etc.).

- *Help* link image: currently a link to a downloadable TA User Manual.

### 5.1.3 WORK AREA

The work area occupies the part below the application menu. It holds the current form if any and displays processing and error Messages.

#### 5.1.3.1 Processing and error Messages

If necessary, processing and error messages are shown in the work area. A processing message notifies the status of a transaction or the actions required from the user. For example, a search returns no results (warning).

➤ No scenarios found according to the search criteria.

*Figure 2: Processing Messages (warnings)*

Or, a confirmation message (info).

➤ Parameters saved successfully, TA Role is: MSA of Dispatch

*Figure 3: Processing Messages (information)*

Error messages notify the user in case of invalid data provided or in case of system failure. In the following example the user did not provide a valid XML file.

➤ The selected file is not a valid xml file.

*Figure 4: Error Messages*

In many cases, information will be displayed to the user in the form of popup notifications.

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## 5.1.4 UTILITY AREA

On the home page, on the right side, the user has the option to access various sections of the application using the quick links. The user can also access the relevant documentation (corresponding to the current Functional Stage) and TAXUD contact information.

On the other pages of the application the same information can be accessed directly from the [Documents Menu](#).

## 5.2 WEB USER INTERFACE FEATURES

This section describes the user interface features of the Testing Applications.

- [Documents Menu;](#)
- [Performing Actions;](#)
- [Working with Forms;](#)
- [Working with Tables;](#)
- [Working with interactive Trees.](#)

### 5.2.1 DOCUMENTS MENU

The Documents Menu is accessible from the Menu at the top-right corner of the menu bar. The documents files are formatted as various types (PDF, zip etc.) depending on the document nature.

#### Document files

The Document files for each of the Functional Stages are *DDNEA FOR EMCS MAIN DOCUMENT, CONFORMANCE TEST PROTOCOL (CTP) DATASETS, CTP SCENARIOS, IE713, IE734, IE931, SCENARIOS XSDs, SCENARIOS TO BE RE\_EXECUTED, CTP CORE ARCHIVE*.

In addition, the Documents Menu offers the possibility of navigating to the Contact page, containing ITSM Service Desk-related information.



Figure 5: Documents Menu

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## 5.2.2 PERFORMING ACTIONS

### 5.2.2.1 Buttons

The table below shows the used functions and the related buttons.

Name	Function	Button
Browse	Locate a file on the disk	
Delete	Delete a record	
Save	Saves the changes of a form / record.	
Save IE	Save an Information Exchange	
Search	Executes a search.	
Upload	Upload a file	
Navigation	Navigate through search results	
Navigation	Jump to page	
Change	Change a predefined value	
Start	Start a test session	
Stop	Stop a test session	
Modify	Modify IE	
Send	Send IE	

Table 5: Action Buttons

If some functionality is not available due to business logic, then a button is still displayed but dimmed.

If some functionality is not available due to user rights restriction, then the button is hidden.

### 5.2.2.2 Keyboard

To submit a form for executing an action, the user should always press the corresponding button for this action. As far as possible, pressing the RETURN key invokes the first submit button of the corresponding form.

Pressing the TAB key navigates between the different screen elements within a page (buttons, input fields, links etc). This can be a useful way to navigate without using the mouse however the exact behaviour is browser-dependent and may not always exhibit the behaviour expected.

## 5.2.3 WORKING WITH FORMS

Forms must be filled with data. The following types of input fields exist in the Testing Applications:

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- **Text input** fields to enter text;
- **Single-selection lists** to select one option out of a list;
- **Date-calendar** fields to select a date value from a calendar;
- **Check boxes** to enable/disable an option.

### 5.2.3.1 Hints

Hints guide the user while working with forms. They usually provide information required in order to fill in the form fields properly. They are displayed on top of the work area. The following figure shows an example of a hint.

Please setup the required Mode 1 test session parameters.

Figure 6: Hints

There are also hints informing the user that a specific field is mandatory. They look like this:  
 \* [Mandatory field](#).

### 5.2.3.2 Input Validation Errors

If there are any business constraints or rules that apply to input values of the form fields, then the form fields are subject to input validation checks.

The input validation checks are performed when an action that requires these data is performed. If input validation errors are detected, the action is not performed and the form is displayed again with the filled in data and any error message is displayed next to the affected field in **RED** or through a popup notification.

The following figure shows an example of a validation error in an input form:

The screenshot shows a form with two input fields: 'Name\*' and 'Description'. The 'Name\*' field is empty, and a red error message 'Name is mandatory.' is displayed to its right. Above the fields are three buttons: 'Modify', 'Send', and 'Cancel'. Below the 'Description' field is a 'Save' button. At the bottom left, there is a legend: '\* Mandatory field'.

Figure 7: Server Side Input Validation

### 5.2.3.3 Search Criteria

When defining search criteria in a Search form, some specific rules are applied:

- Empty fields are not considered for searching information, unless specified otherwise;
- Criteria values are matched exactly, except for the search of items (templates, messages, scenarios) performed by name.

## 5.2.4 WORKING WITH TABLES

Tables contain search results. The content of most tables may be further manipulated as follows:

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- **Sort table** by clicking on a header row field;
- **Select/unselect multiple rows** by checking/unchecking the corresponding box at the first column. Checking/unchecking the checkbox of the table header checks/unchecks all the table checkboxes.

<input type="checkbox"/>	IE TYPE ▲	NAME	DESCRIPTION	DATASET
<input type="checkbox"/>	IE801	Test1 leTempI_801	template IE801	A
<input checked="" type="checkbox"/>	IE801	Test2 leTempI_801	template IE801	A
<input type="checkbox"/>	IE801	Test3 leTempI_801	template IE801	A
<input type="checkbox"/>	IE801	Test4 leTempI_801	template IE801	A

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Figure 8: Working with tables

## 5.2.5 WORKING WITH INTERACTIVE TREES

An interactive tree displays and allows the modification of XML data.

The XML elements are represented with a folder icon, either expanded or collapsed . Expanded elements will collapse using the – sign. Collapsed elements will expand using the + sign. Attributes (and their values) are represented with the sign . Element values are represented with the sign . The red colour, when present, is indicating that the respective value is instantiation-specific, i.e. should contain country-specific or dynamic data.

All the tree nodes may be modified by selecting the corresponding item and then clicking on it again. This action sets the node in update mode. Pressing ESC cancels the edit mode and pressing RETURN saves the new value.

In the Instantiation Data Update page, elements may be created or deleted in/from the tree, respectively. To do so, right-click on the *InstantiationData* node to open a pop-up menu which allows the “Add tag” action, or on any *InstantiationItem* node to open a pop-up menu which allows the “Delete tag” action.

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## » Instantiation Data UpdatePage

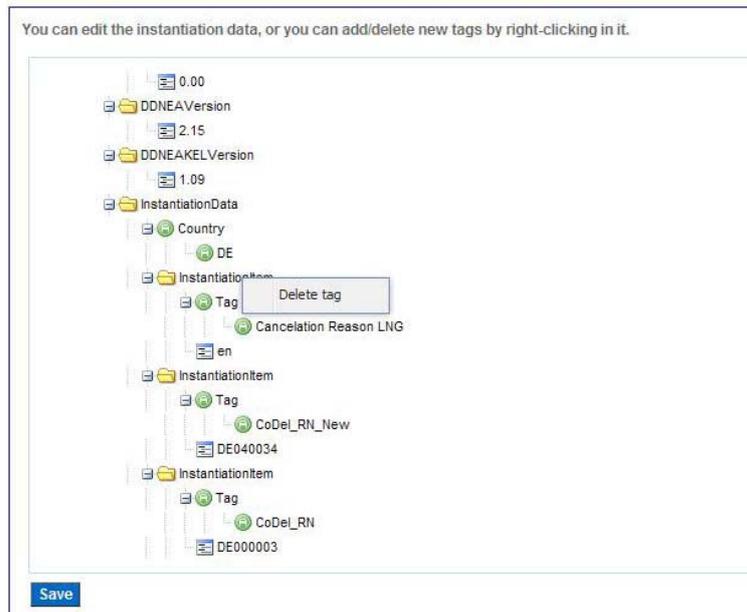


Figure 9: Working with interactive Trees

## 5.3 USER AUTHENTICATION

TA can be accessed either through HTTP or through HTTPS.

Access to the TA requires authentication. TA users are authenticated via the CCN/CSI login page which is outside the scope of the TA. Users without proper authentication shall be notified accordingly.

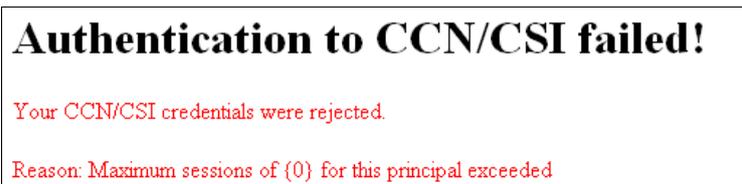


Figure 10: Testing Applications – Authentication failure

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After successful authentication the TA web interface is accessible.

### 5.3.1 USER ROLES

Two types of users/roles may be used by the NEA Operator to access the TA. In TA vers.2, the Operator is assigned by default the following permissions:

- Mode-1 Operator;
- Mode-2 Operator.

From the Functional Stage point of view, the user must be associated with at least one of the following:

- FS1 Operator
- FS2 Operator

These correspond to the “FS” profiles as declared in the user creation forms.

### 5.3.2 MODE OF OPERATION

This function allows the user to set the mode of the application operation. It is available through the application menu item “Operation Mode”. In TA vers.2 a user is privileged to access both operation modes. The possible modes of operation are:

- [Mode-1 Testing operation Mode;](#)
- [Mode-2 Testing operation Mode.](#)

### 5.3.3 USER LOGOFF

This function allows the logged in user to exit TA. The Logoff function is available through the [User Information Area](#) of the web interface.



Figure 11: Testing Applications Logoff

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Mode-1 Testing operation Mode	

## 6 MODE-1 TESTING OPERATION MODE

Before conducting any activity under “Mode-1 Testing operation Mode” the operator must first configure a test session (see [Test Session Configuration](#)).

The functions available under “Mode-1 Testing” are the following:

- [Test Session Configuration;](#)
- [Test Execution Control page;](#)
- [View Log Events;](#)
- [Instantiation Data repository;](#)
- [Reference Data Update](#)
  - [IE Repository Update;](#)
  - [Upload IE;](#)
  - [Clone IE;](#)
  - [Create IE from template;](#)
  - [Edit IE;](#)
  - [Delete an IE.](#)

### 6.1 TEST SESSION CONFIGURATION

To initiate a test session select under the menu item “Mode-1 – Configuration&Run” the option “Test Session Configuration”. The “Test Session Configuration” page loads configuring the following parameters:

- TA Operation Domain (list of domains);
- NEA Role (list of roles);
- TA Role (list of roles);
- TA Country (list of EU countries).

Figure 12: Test Session Configuration page

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Click the “Save” button to store the provided information. The system informs the user on the status of the operation.

## 6.2 TEST EXECUTION CONTROL PAGE

To initiate the “Test Execution Control” page select under the menu item “Mode-1 – Configuration&Run” the option “Test Execution Control Screen”. A test session has to be configured first (see [Test Session Configuration](#)). Only one test session per test user at a time is supported, no matter the FS or the Operation Mode.

The page displays the current session configuration settings and allows the user to modify them. To start a test session click on the button “START”. The form displays the session status. To stop a test session click on the button “STOP”.

When the test session is started, the user can start sending and receiving IEs. The “Test Execution Control” page contains the “IE MESSAGES” search form which is used to locate and send IEs. The “IE MESSAGES” search form provides at least the following search parameters:

- IE Type (e.g. IE701);
- By Name (free text).

### » Test Execution Control Page

The screenshot shows the 'TEST SESSION SETTINGS' section with the following configuration: TA OPERATION DOMAIN: Common Domain, NEA: MSA of Destination, Germany, TA: MSA of Dispatch, Greece. The EXECUTION status is 'No active session' with 'START' and 'STOP' buttons. Below this is the 'IE MESSAGES' search form with dropdown menus for IE Type, DataSet, Sender Role (MSA of Dispatch), Sender Country (Greece), Receiver Role (MSA of Destination), and Receiver Country (Germany). There is a 'By Name' text input field, an 'Advanced Search' checkbox which is checked, and a 'Search' button.

Figure 13: Test Execution Control page

Furthermore, the “IE MESSAGES” search form provides an Advanced Search by checking on the “Advanced Search” checkbox. The “Advanced Search” parameters are:

- IE Type (list of IE Types);
- DataSet (list of DataSets);
- Sender Role (list of roles);
- Sender Country (list of EU countries);
- Receiver Role (list of roles);
- Receiver Country (list of EU countries);
- By Name (free text).

The “Search” button performs the IE search.

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Please note that the search is performed in the repository corresponding to the current selected FS.

In case of successful search, the IE messages found are listed in an interactive table below the search form. Else the system informs the user accordingly.

**IE MESSAGES**

IE Type: --all types--  
 DataSet: --all datasets--  
 Sender Role: --all roles--  
 Sender Country: --all countries--  
 Receiver Role: --all roles--  
 Receiver Country: --all countries--  
 By Name:   
 Advanced Search:

**Search**

IE TYPE	NAME	DESCRIPTION	DATASET	SENDER ROLE/COUNTRY	RECEIVER ROLE/COUNTRY
IE701	CD701A_Test_DS_A_LT_dispatch	CD701A_Test_DS_A DESCRIPTION	A	MSA of Dispatch/Lithuania	MSA of Destination/Romania
IE701	CD701A_Test_DS_A_LT_destination	CD701A_Test_DS_A DESCRIPTION	A	MSA of Destination/Lithuania	MSA of Dispatch/Romania
IE701	CD701A_Test_DS_B_LT_destination	CD701A_Test_DS_B DESCRIPTION	B	MSA of Destination/Lithuania	MSA of Dispatch/Romania
IE701	CD701A_Test_DS_B_LT_dispatch	CD701A_Test_DS_B DESCRIPTION	B	MSA of Dispatch/Lithuania	MSA of Destination/Romania
IE701	CD701A_Test_DS_C_LT_destination	CD701A_Test_DS_C DESCRIPTION	C	MSA of Destination/Lithuania	MSA of Dispatch/Romania
IE701	CD701A_Test_DS_C_LT_dispatch	CD701A_Test_DS_C DESCRIPTION	C	MSA of Dispatch/Lithuania	MSA of Destination/Romania

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Figure 14: Test Execution Control page – IE messages search form & results

Clicking on a table row opens the “IE PREVIEW” section at the right part of the “Test Execution Control” page. The “IE PREVIEW” section displays the XML message as an interactive expanded tree allowing the user to navigate to the tree elements and if necessary to modify them using the “Modify” button. Upon modification the user may save the IE message by providing a “Name” and “Description” and clicking on the “Save” button. The user may also cancel the modification by pressing the “Cancel” button.

In any case the user may send the IE by clicking the “Send” button. All IE transmissions are logged by the system and may be inspected using the [View Log Events](#) form or the Runtime Console.

Finally, the user may click the “Print” (printer image) link to print the IE as XML.

[Removed]

Figure 15: Test Execution Control page – IE preview section

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Mode-1 Testing operation Mode	

## 6.3 VIEW LOG EVENTS

This page is used to locate and display the logs of a test session. To initiate the “View Log Events” page select under the menu item “Mode-1 – Configuration & Run” the option “View Log Events”. The page search parameters are:

- Event Log Type (IE sent Log Event);
- Test Session Name (free text);
- Active Session (checkbox);
- Operator Name (free text - default is current user);
- Operator Country (read only);
- Session Start Date: From;
- Session End Date: To ;
- TA Role (MSA of Destination, MSA of Dispatch).

The “Search” button performs the log search.

Please note that the search is performed in the repository corresponding to the current selected FS.

Upon successful search the page displays the summary of the log events found. Click on the row to open the detailed log event.

[Removed]

*Figure 16: View Log Events*

Clicking on the row opens a new browser window, consisting of two resizable frames: the top frame contains the log event details, and the bottom frame displays the actual XML content of the message, if available.

[Removed]

*Figure 17: View Log Event Details*

The information logged and displayed depends on the type of the logging event.

In case the logging event has type “IE verification” the system logs the outcome of the IE validations clearly detailing:

- The IE that was sent/received;
- The overall outcome of the verification (correct or errors found);
- An indication of the kind of error, namely:
  - Error during message structure verification;
  - Error during Value Format verification;
  - Error during Codelist verification;
  - Error during Excise Office and Trader verification;
  - Error during Rules and Conditions verification (In case of Rules and Conditions, the violated rule or condition will be detailed in the log repository);

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- The location of the error detailed by the data-item or data group and underlying data-groups. The error is given, in most cases, by the name of the rule which has been violated (e.g., C006) and this rule can be found in the DDNEA specifications.
- The IE in XML format.

In case the logging event has type “IE received” the system logs in detail the following:

- The type of the received message, for example “CD905A Status Response (C\_STD\_RSP)”;
- Date and time of receiving;
- The corresponding message queue name;
- The IE in XML format.

In case the logging event has type “IE sent” the system logs in detail the following:

- The type of the sent message;
- Date and time of sending;
- The name of the queues involved in the sending process;
- The IE in XML format. This representation will contain any manual changes applied;

## 6.4 INSTANTIATION DATA REPOSITORY

The Instantiation Data (a list of the country specific information) repository holds the instantiation data files. These files are XML messages containing instantiation information used every time a message loaded from the repository is instantiated.

To start the “Instantiation Data Update” page, click under the menu item “Data Management” the option “Instantiation Data Repository”.

The page displays the instantiation XML data of the “Operation Country” in an expanded tree view. The tree may be updated interactively by adding, deleting and updating the XML tags.

- Right click on an *InstantiationData* node to add a tag, or on an *InstantiationItem* node to delete a tag;
- Select and then click any tree node to edit its value.

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## » Instantiation Data UpdatePage

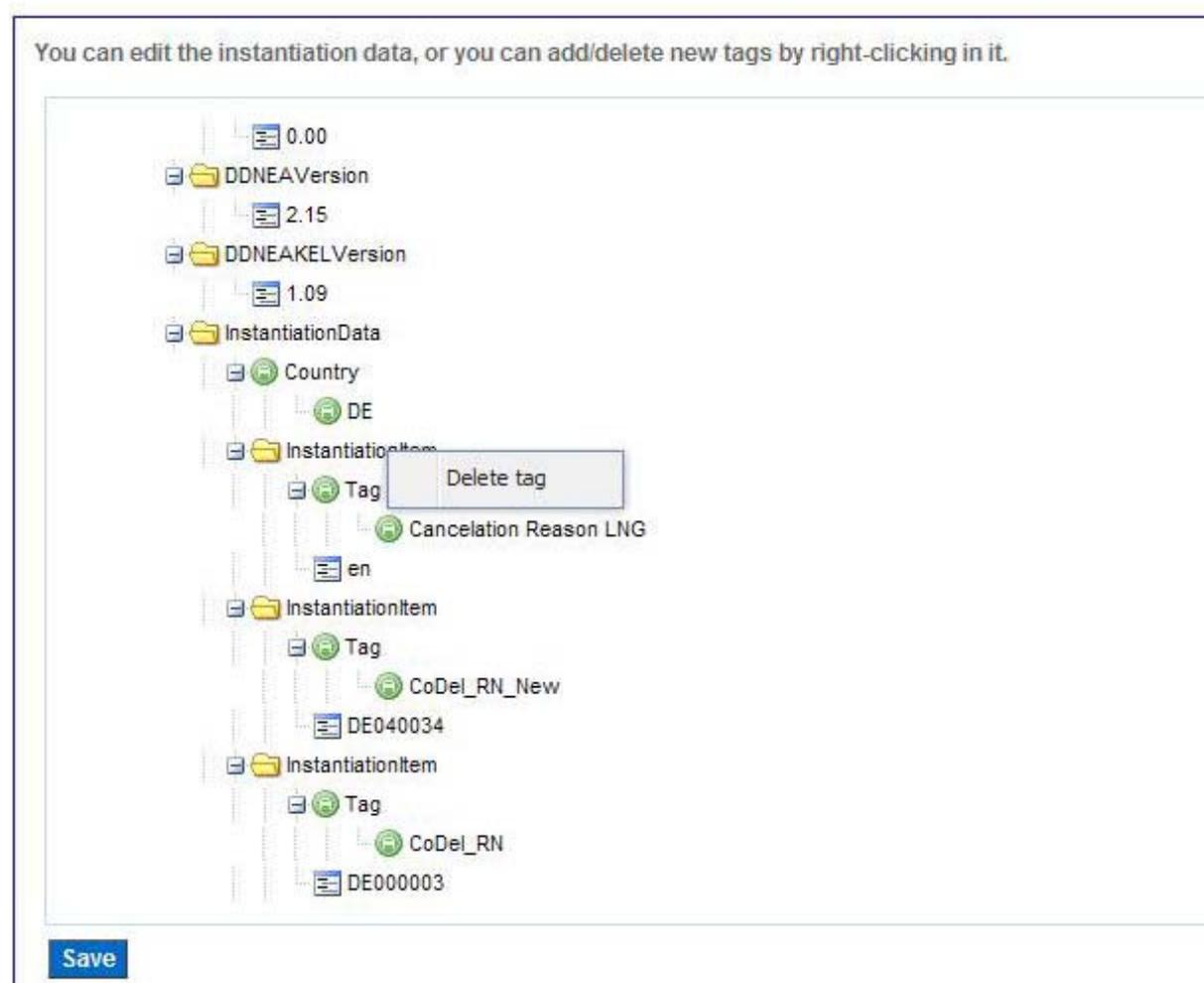


Figure 18: Instantiation Data Update page

Click the “Print” (printer image) link beneath the “Save” button to print the Instantiation Data as XML.

Click on the “Save” button to store any modifications. The system validates the Instantiation Data and informs the user accordingly.

## 6.5 REFERENCE DATA UPDATE

This page is used to update the “Reference Data” by uploading the corresponding XML message. To start the “Reference Data Update” page, click under the menu item “Data Management” the option “Reference Data Repository”. The page parameters are:

- Data Type (IE713, IE734, IE931);
- File.

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## » Reference Data UpdatePage

Select the new reference data file from the system.

Data Type

File\*

\* Mandatory field

Figure 19: Reference Data Update

Click on the “Browse” button and locate the “Reference Data” file from the disk. Click the “Upload” button to upload the file on the server. The system validates the file uploaded and informs the user accordingly.

The “Reference Data” includes the following information:

- a set of common system parameters, i.e. durations, numbers and codes that are set as committing limits for all Member States in some business cases, typically, a maximum time limit that a MSA is forbidden to exceed but is allowed to shorten, or the list of categories of goods allowed to split;
- a set of common risk assessment criteria, i.e. risk profiles that all Member States are committed to apply upon some events;
- the various lists of codes to be used in identified fields of the information exchanges throughout EMCS; these lists are described in Appendix B of the DDNEA [R1]; examples are country codes, transport codes and language codes;
- The Excise Offices List.

## 6.6 IE REPOSITORY UPDATE

The IE repository is the central place to store all the IEs that will be used for Mode1-Testing. The IE Repository consists of the following:

- The templates of the IE messages: A template is an XML file that contains the structure (groups and fields) depending on the IE type selected but does not contain any values. Each IE has its own template, as defined in the DDNEA [R5]. For the purposes of erroneous testing, user-defined templates can also be defined;

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- The IEs instantiated and organised by IE type: The instantiated IEs contain values in every required data field, even in the country specific ones (e.g. MSA of Dispatch, MSA of Destination, etc);
- The XSDs of the IE messages: For each message type that can be processed in Mode-1 Testing there is a corresponding XSD, as defined in the DDNEA [R5]. It is recommended that the XSDs should not be altered in anyway.

## 6.6.1 ADD/CREATE IE

To start the “Add/Create IE” page, click under the menu item “Data Management” the option “IE Repository Update” and then the option “Add/Create an IE”. The “Add/Create IE” page offers the following options:

- [Upload IE;](#)
- [Clone IE;](#)
- [Create IE from template.](#)

### 6.6.1.1 Upload IE

This page is used to upload an IE instance from an XML file. To start the “Upload an IE” page, first start the [Add/Create IE](#) page. The page parameters are:

- Name (free text);
- Description (free text);
- Sender Role (list of roles);
- Sender Country (list of EU countries);
- Receiver Role (list of roles);
- Receiver Country (list of EU countries);
- File.

## » Upload IEPage

Fill in the IE description fields, then select the file from your machine.

Name*	<input type="text" value="uploaded1"/>
Description	<input type="text" value="uploaded1"/>
Sender Role	<input style="border: none; background-color: #f0f0f0;" type="text" value="MSA of Dispatch"/> ▼
Sender Country	<input style="border: none; background-color: #f0f0f0;" type="text" value="Greece"/> ▼
Receiver Role	<input style="border: none; background-color: #f0f0f0;" type="text" value="MSA of Destination"/> ▼
Receiver Country	<input style="border: none; background-color: #f0f0f0;" type="text" value="Germany"/> ▼
File*	<input type="text" value="E:\temp\IE801-A-Disp.GR-De"/> <input type="button" value="Browse..."/>

\* Mandatory field

Figure 20: Upload IE

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Mode-1 Testing operation Mode	

Click on the “Browse” button and locate the IE message file from the disk.

Click the “Upload” button to upload the file on the server. The system displays the IE message in a read-only tree view.

[Removed]

*Figure 21: Upload IE – step 2*

Click the “Print” (printer image) link to print the IE as XML.

Click the “Save IE” button to store the file in the repository. The system notifies the user on the status of the transaction.

### **6.6.1.2 Clone IE**

This page is used to create a new IE message based on an existing IE from the repository. To start the “Upload an IE” page, first start the [Add/Create IE](#) page.

The page allows searching for existing IEs in the repository. The “Simple Search” parameters are:

- IE type (list of IE types);
- By Name (free text).

The page also provides an “Advanced Search” by clicking on the “Advanced Search” checkbox, using the following parameters:

- IE Type (list of IE types);
- DataSet (list of DataSets);
- Sender Role (list of roles);
- Sender Country (list of EU countries);
- Receiver Role (list of roles);
- Receiver Country (list of EU countries);
- By Name (free text).

## » Clone IEPage

**IE SELECTION**

IE Type

DataSet

Sender Role

Sender Country

Receiver Role

Receiver Country

By Name

Advanced Search

**Search**

IE TYPE	NAME	DESCRIPTION	DATASET	SENDER ROLE/COUNTRY	RECEIVER ROLE/COUNTRY
IE701	CD701A_Test_DS_A_LT_dispatch	CD701A_Test_DS_A DESCRIPTION	A	MSA of Dispatch/Lithuania	MSA of Destination/Romania
IE701	CD701A_Test_DS_A_LT_destination	CD701A_Test_DS_A DESCRIPTION	A	MSA of Destination/Lithuania	MSA of Dispatch/Romania
IE701	CD701A_Test_DS_B_LT_destination	CD701A_Test_DS_B DESCRIPTION	B	MSA of Destination/Lithuania	MSA of Dispatch/Romania
IE701	CD701A_Test_DS_B_LT_dispatch	CD701A_Test_DS_B DESCRIPTION	B	MSA of Dispatch/Lithuania	MSA of Destination/Romania
IE701	CD701A_Test_DS_C_LT_destination	CD701A_Test_DS_C DESCRIPTION	C	MSA of Destination/Lithuania	MSA of Dispatch/Romania
IE701	CD701A_Test_DS_C_LT_dispatch	CD701A_Test_DS_C DESCRIPTION	C	MSA of Dispatch/Lithuania	MSA of Destination/Romania

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Figure 22: Clone IE

The “Search” button performs the IE search.

Upon successful search the “Clone IE” page displays the search results in a tabular format.

Click on a table row to open the IE. The IE opens in update mode as demonstrated in the following figure.

[Removed]

Figure 23: Clone IE – step2

It is possible to update the existing tag names and their values by selecting them and then clicking on them. It is not possible to add new tags.

Provide the “Name” and “Description” of the cloned IE using the corresponding fields. Click on the button “Save” to store the IE in the repository. The system validates the provided information and notifies the user on the status of the transaction.

Finally, click the “Print” (printer image) link to print the IE as XML.

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### 6.6.1.3 Create IE from template

This page is used to create a new IE message based on a template. To start the “Create IE from Template” page, first start the [Add/Create IE](#) page.

The page allows searching for existing IEtemplates in the repository. The search parameters are:

- IE type (list of IE types);
- DataSet (list of DataSets);
- Source (CTP\_DEFINED, MSA\_DEFINED);
- By Name (free text).

The “Search” button performs the search.

Upon successful search the page displays the search results in a tabular format. Click on a table row to open the IE template. The IE template opens in update mode as demonstrated in the following figure.

It is possible to update the existing tag names and their values by selecting them and then clicking on them. It is not possible to add new tags.

[Removed]

*Figure 24: Create IE from template*

Provide the “Name”, “Description”, “Sender Role”, “Sender Country”, “Receiver Role” and “Receiver Country” of the new IE using the corresponding fields.

Click on the button “Save” to store the IE in the repository. The system validates the provided information and notifies the user on the status of the transaction.

Finally, click the “Print” (printer image) link to print the IE as XML.

### 6.6.2 EDIT IE

To start the “Edit IE” page select under the menu item “Data Management” the option “IE Repository Update” and then “Edit an IE”. The search parameters provided are:

- IE type (list of IE types);
- By Name (free text).

The page also provides an “Advanced Search” by clicking on the “Advanced Search” checkbox, using the following parameters:

- IE Type(list of IE types);
- DataSet (list of DataSets);
- Sender Role (list of roles);
- Sender Country (list of EU countries);
- Receiver Role(list of roles);
- Receiver Country (list of EU countries);
- By Name (free text).

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The “Search” button performs the IE search.

Upon successful search the page displays the search results in a tabular format. Click on a table row to open the IE. The IE opens in update mode as demonstrated in the following figure.

[Removed]

*Figure 25: Edit IE*

It is possible to update the existing tag names and their values by selecting them and then clicking on them. It is not possible to add new tags.

Click on the button “Save” to store the IE in the repository. The system validates the provided information and notifies the user on the status of the transaction.

Finally, click the “Print” (printer image) link to print the IE as XML.

### 6.6.3 DELETE AN IE

To start the “Delete IE” page select under the menu item “Data Management” the option “IE Repository Update” and then “Delete an IE”. The search parameters provided are:

- IE type (list of IE types);
- By Name (free text).

The page also provides an “Advanced Search” by clicking on the “Advanced Search” checkbox, using the following parameters:

- IE Type(list of IE types);
- DataSet (list of DataSets);
- Sender Role (list of roles);
- Sender Country (list of EU countries);
- Receiver Role(list of roles);
- Receiver Country (list of EU countries);
- By Name (free text).

The “Search” button performs the IE search.

Upon successful search the page displays the search results in a tabular format as demonstrated in the following figure.

## » Delete IEPage

### IE SELECTION

IE Type    
 DataSet    
 Sender Role    
 Sender Country    
 Receiver Role    
 Receiver Country    
 By Name    
 Advanced Search

<input type="checkbox"/>	IE TYPE ▲	NAME	DESCRIPTION	DATASET	SENDER ROLE/COUNTRY	RECEIVER ROLE/COUNTRY
<input type="checkbox"/>	IE818	Test 3 IE801	test 3		MSA of Dispatch/Austria	MSA of Destination/Greece
<input type="checkbox"/>	IE818	test818	test aa		MSA of Dispatch/Austria	MSA of Destination/Greece
<input type="checkbox"/>	IE818	test818_2	test aa22		MSA of Dispatch/Austria	MSA of Destination/Germany

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Figure 26: Delete IE

Select the IEs to be deleted by checking the corresponding checkbox on the first column of table.

Click the “Delete” button to delete the selected IEs. The system informs the user on the status of the transaction and updates the search results of the page.

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## 7 MODE-2 TESTING OPERATION MODE

The functions available under “Mode-2 Testing” are the following:

- [Non functional CTP Scenarios Setup & Run;](#)
- [Scenario Setup & Run;](#)
- [Migration Scenario Setup & Run;](#)
- [View Test Session Results;](#)
- [Restore Archived](#)
- [Scenarios Execution Results.](#)

### 7.1 NON FUNCTIONAL CTP SCENARIOS SETUP & RUN

Non functional CTP scenarios trigger the response time and cannot be uploaded, searched and managed by the user, like the CTP scenarios.

To start the “Non functional CTP Scenarios Setup & Run” page select under the menu item “Mode-2 - Configuration&Run” the option “Non functional CTP Scenarios”.

The screenshot shows the user interface for configuring and running non-functional CTP scenarios. At the top, there is a navigation bar with 'Home', 'Operation Mode', 'Mode 2 - Configuration&Run', and 'Documents'. The 'FUNCTIONAL STAGE' is set to 'FS2'. Below the navigation bar, the page title is '» Non functional CTP Scenarios Setup&Run Page'. A dropdown menu for 'TA Country (Country1)' is set to 'Greece'. The main content area lists three scenarios:

- ▶ CTP NF-03  
Submission of 1000 erroneous IE801 messages and receipt and measurement of max and average response time of the corresponding IE917 STOP
- ▶ CTP NF-04  
Submission of an IE904 and receipt and measurement of the response time for the corresponding IE905 and IE801 STOP
- ▶ CTP NF-05  
Submission of an IE904 and receipt and measurement of the response time for the corresponding IE905 and IE934 STOP

Figure 27: Non functional CTP Scenarios Setup & Run

The page allows the execution of the following “Non functional CTP Scenarios”:

- Submission of 1000 erroneous IE801 messages and receipt and measurement of max and average response time of the corresponding IE906;
- Submission of an IE904 and receipt and measurement of the response time for the corresponding IE905 and IE801;
- Submission of an IE904 and receipt and measurement of the response time for the corresponding IE905 and IE934.

Click on any of the above scenarios to execute them. The scenario execution is logged and may be inspected in [View Test Session Results](#) or in the [Runtime Console](#). The scenario can also be stopped by using the Stop button.

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## 7.2 SCENARIO SETUP & RUN

To start the “Scenario Setup & Run” page select under the menu item “Mode-2 - Configuration&Run” the option “Scenario Setup&Run”. The “Scenario Setup & Run” page is used to locate and execute existing scenarios. The page offers the following search parameters:

- Source(listbox);
- Category (listbox);
- Scenario group (listbox);
- NEA Role (listbox);
- Dataset (listbox);
- By Name (free text).

When the page starts it contains the result of a search using the default values of the search parameters.

### » Scenario Setup&Run Page

**SCENARIO SELECTION**
**SCENARIO PREVIEW**

Functional Stage: FS2

Source: CTP\_DEFINED

Category: --all categories--

Scenario group: --all groups--

NEA Role: --all roles--

Dataset: --all datasets--

By Name:

GROUP	TITLE	NEA ROLES	NAME	OPTIONALITY
AP - 05	Submission and registration of e-AAD	MSA of Dispatch	AP - 05_1.xml	M
AP - 05	Submission and registration of e-AAD	MSA of Destination	AP - 05_2.xml	M
AP - 05	Submission and registration of e-AAD	MSA of Destination	AP - 05_3.xml	M
AP - 05	Submission and registration of e-AAD	MSA of Dispatch	AP - 05_4.xml	M
AP - 06	Cancellation of an e-AAD by the consignor	MSA of Destination	AP - 06_1.xml	M
AP - 06	Cancellation of an e-AAD by the consignor	MSA of Dispatch	AP - 06_2.xml	M

Test Scenario	AP - 05
Title	Submission and registration of e-AAD
Test Validation	At MSA of Dispatch's side: the correct sending of IE801. At MSA of Destination's side: the correct receiving of IE801.
Description	This scenario intends to test the basic exchange of e-AAD messages across the Common Domain. This test will be repeated, addressing different e-AADs (IE801). This will test the structure of the IE801. Involved DDNEA Section: III.1.1.1.1 Submission and registration of e-AAD (UC2.01).
Notes	None.

Scenario group	Step no.	From	To	IE type	Dataset	Optionality	TACountryAlias
AP - 05	1	TA (MSA of Dispatch)	NEA (MSA of Destination)	IE801	A	M	COUNTRY1

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No active session.

TA Country1: Greece      Compare field by field?

Figure 28: Scenario Setup & Run

Change any of the search parameters to conduct a new search.

Click on any row of the table results to preview the corresponding scenario.

The “Scenario Preview” section of the page displays the selected scenario information and displays information on the active session. If no active session exists, select the “TA Country” and click the “START” button. To stop an active session click on the “STOP” button.

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To print the scenario as XML, click on the “Print” (printer image) link.

## 7.3 MIGRATION SCENARIO SETUP & RUN

A new functionality is implemented in TA version 2 in order to test the P2-P3 migration process; the migration testing will be optional to the MSA and the procedure is defined as follows:

- A set of scenarios from the current CTP for EMCS Phase 3 will be shortlisted to contain the Migration testing scenarios;
- The set of Migration testing scenarios will be implemented in a separate TA FS2 page;
- Each scenario will be virtually initiated in Phase 2 and shall be concluded in Phase 3 after each NEA runs the migration process. Specifically, the P2 messages will not be physically exchanged between NEAs and TA. Instead, the MSAs will be provided with the option to download and import in their systems all the P2 messages initiating the Migration testing scenarios. Afterwards, each NEA will run the Migration process in their systems. Once this step is over, all the scenarios will conclude in FS2 with the use of TA;

The Migration Scenario Setup & Run screen is developed in TA FS2 containing:

- Possibilities of searching for migration scenario using the same criteria used in the Scenario Setup & Run screen – see Section 7.2 above;
- Possibilities of selecting a specific migration scenario from the result list and starting/stopping it;
- Download option for fully instantiated P2 XML messages.

### » MigrationScenario Setup&Run Page

**SCENARIO SELECTION**
SCENARIO PREVIEW

Functional Stage: FS2

Source: CTP\_DEFINED

Category: --all categories--

Scenario group: --all groups--

NEA Role: --all roles--

Dataset: --all datasets--

By Name:

GROUP	TITLE	NEA ROLES	NAME
AP - 07	Submission of report of receipt	MSA of Destination	AP - 07 - Migration_4.xml
AP - 07	Submission of report of receipt	MSA of Destination	AP - 07 - Migration_2.xml
AP - 19	General query to retrieve an e-AD	MSA of Dispatch	AP - 19 - Migration_4.xml
AP - 21 (a)	Manual Status Synchronisation Request (ROR missing in the MSA of Dispatch)	MSA of Destination	AP - 21 (a) - Migration_1.xml
AP - 22 (a)	Change of destination (New MSA of Destination) after the reception of RoR with "Delivery Refused" and "Delivery Partially Refused".	Former MSA of Destination, MSA of Destination	AP - 22 (a) - Migration_4.xml
AP - 22 (a)	Change of destination (New MSA of Destination) after the reception of RoR with "Delivery Refused" and "Delivery Partially Refused".	Former MSA of Destination, MSA of Destination	AP - 22 (a) - Migration_2.xml

Test Scenario	AP - 07
Title	Submission of report of receipt
Test Validation	At MSA of Dispatch's side: the correct sending of IE801 and receiving of IE818. At MSA of Destination's side: the correct receiving of IE801 and sending of IE818.
Description	This scenario intends to test the correct sending back of Report of Receipt across the Common Domain, with acceptance of the goods. This test will be repeated, addressing different e-Ads (IE801). In turn, this enables to test the structure of the IE818. Involved DDNEA Sections: III.1.1.1.1.1 Submission of Report of Receipt (UC2.06), III.1.1.1.1.2 Delivery Accepted.
Notes	The information exchanges of this scenario cover also BS - 13 of ACS v2.00.

Scenario group	Step no.	From	To	IE type	Dataset	FS	TACountryAlias
AP - 07	1	TA (MSA of Dispatch)	NEA (MSA of Destination)	IE801	H	FS1	COUNTRY1
AP - 07	2	NEA (MSA of Destination)	TA (MSA of Dispatch)	IE818	A		COUNTRY1

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In order to execute a migration scenario, the Operator (having Mode-2 and FS-2 permissions) will first search through the available list using the search criteria (the same as in normal scenarios' case), e.g. Source, Category, Scenario Group, NEA Role, Dataset or By Name. From the result list, the Operator can choose the desired scenario by clicking on the corresponding row. As a consequence, the desired scenario details will be shown in the Scenario Preview section to the right. Please note that every migration scenario must include at least one step in which TA should send a FS1 message (see screenshot above).

After selecting the TA country ISO, the Operator will start the scenario by pressing the START button.

Each time the scenario specifies that TA should “send” a FS1 message, the flow will stop and a notification will pop up, allowing the user to download the FS1 message as if sent by TA:

[Removed]

The user must press DOWNLOAD to retrieve the XML message, and then OK in order to resume the scenario. Please note that pressing OK implies that the download process has concluded, no matter if the download link has been accessed or not.

After the scenario is completed, either successfully or not, the user can consult the execution logs from the View Test Session Result, Scenarios Executions Results or Runtime Console screens.

## 7.4 VIEW TEST SESSION RESULTS

To start the “Test Session Results” page select under the menu item “Mode-2 - Configuration&Run” the option “Test Results” and then “Test Session Results”.

The page is used to locate and inspect “Test Session Results” for one test session. It offers the following search parameters:

- Operator Name (default value: current user);
- Operator Country (read only);
- TA Role (list of roles).

[Removed]

*Figure 29: Test Session Results*

Click “Search” to conduct a search.

Upon successful search the test session details are displayed as well as the corresponding scenario logs. Click on a row to view the detailed log.

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» Test Session Results Page

USER SPECIFICATIONS

Operator Name OPERATOR7-FS1-FS2-USR.DE  
 Operator Country DE  
 TA Role --all roles--

SCENARIO SPECIFICATIONS

Test Scenario	AP - 05
Title	Submission and registration of e-AAD
Test Validation	At MSA of Dispatch's side: the correct sending of IE801. At MSA of Destination's side: the correct receiving of IE801.
Description	This scenario intends to test the basic exchange of e-AAD messages across the Common Domain. This test will be repeated, addressing different e-AADs (IE801). This will test the structure of the IE801. Involved DDNEA Section: III.1.1.1.1 Submission and registration of e-AAD (UC2.01).
Notes	None.

Scenario group	Step no.	From	To	IE type	Dataset	Optionality	TACountryAlias
AP - 05	1	TA (MSA of Dispatch)	NEA (MSA of Destination)	IE801	A	M	COUNTRY1

SCENARIO LOGS

SUMMARY	TEST SESSION NAME	TEST SESSION START TIME	TEST SESSION END TIME
DE   OPERATOR7-FS1-FS2-USR.DE   Mode2   xzczzc   Scenario Completion Log Event   2010-09-21 12:35:32.963 GMT	xzczzc	2010-09-21 12:35:11.311 GMT	2010-09-23 09:26:41.498 GMT
DE   OPERATOR7-FS1-FS2-USR.DE   Mode2   xzczzc   IE Sent Log Event   2010-09-21 12:35:31.978 GMT	xzczzc	2010-09-21 12:35:11.311 GMT	2010-09-23 09:26:41.498 GMT
DE   OPERATOR7-FS1-FS2-USR.DE   Mode2   xzczzc   IE Instantiation Log Event   2010-09-21 12:35:15.754 GMT	xzczzc	2010-09-21 12:35:11.311 GMT	2010-09-23 09:26:41.498 GMT
DE   OPERATOR7-FS1-FS2-USR.DE   Mode2   xzczzc   ARC Generation Log Event   2010-09-21 12:35:14.487 GMT	xzczzc	2010-09-21 12:35:11.311 GMT	2010-09-23 09:26:41.498 GMT
DE   OPERATOR7-FS1-FS2-USR.DE   Mode2   xzczzc   IE Instantiation Log Event   2010-09-21 12:35:13.814 GMT	xzczzc	2010-09-21 12:35:11.311 GMT	2010-09-23 09:26:41.498 GMT
DE   OPERATOR7-FS1-FS2-USR.DE   Mode2   xzczzc   Setup Scenario Params Log Event   2010-09-21 12:35:12.797 GMT	xzczzc	2010-09-21 12:35:11.311 GMT	2010-09-23 09:26:41.498 GMT

Figure 30: Test Session Results – step 2

## 7.5 RESTORE ARCHIVED TEST SESSIONS

To start the “Restore Archived Test Sessions” page select under the menu item “Mode-2 - Configuration&Run” the option “Restore Archived Test Sessions”. The page is used to locate and restore archived scenarios logs. It offers the following search parameters:

- Test Session Mode (list of modes);
- Test Session Name;
- Operator Name (default value: current user);
- Operator Country (list of EU countries);
- Session Start Date: From (Date field);
- Session End Date: To (Date field);
- TA Role (list of roles).

When the page starts it contains the result of a search using the default values of the search parameters.

[Removed]

Figure 31: Restore Archived Scenario Logs

Click “Search” to conduct a new search.

Upon successful search the page contains the search result in a tabular format. Select the session logs to restore by checking the corresponding checkbox at the first column of the

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table. Then click on the “Restore” button. The system informs the user on the status of the transaction.

## 7.6 SCENARIOS EXECUTION RESULTS

To start the “Scenarios Execution Results” page select under the menu item “Mode-2 - Configuration&Run” the option “Test Results” and then “Scenarios Execution Results”. The page offers the following search parameters:

- Event Log Type (list of log event types);
- Test Session Name;
- Active Session (checkbox);
- Operator Name (current user);
- Operator Country (read only);
- Session Start Date: From;
- Session End Date: To ;
- Daily Report (checkbox);
- TA Role (list of roles).

Click “Search” to conduct a search.

Upon successful search the page contains the search result in a tabular format. Click on the row to see the actual detailed log event.

[Removed]

*Figure 32: Scenarios Execution Results*

Finally, click on the button “Detailed Report” to a get a detailed PDF report of the “SCENARIOS EXECUTION REPORT” or on the “Summary Report” to get the “Scenarios Executions Summary”.

## 7.7 CONFORMANCE STATISTICS

A new functionality to handle the statistic results of all MSA’s testing campaigns is introduced in TA version 2.

TA v2.2 will provide the MSA Users with the option to extract and download statistics for the CT progress.

The MSA Users will be able to select specific scenario groups (one or more) and time intervals for the reports that will be extracted. They will have access only to their MSA’s statistics;

The graphical report for each country will contain three pies: one for the mandatory scenarios, one for the optional, and one for all. The following coloring rule shall apply in the pies:

- White color for the part of the pie that represents the percentage of the selected scenarios that have not been run;
- Blue color for the part of the pie that represents the percentage of the selected scenarios that have been successfully executed;

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- Red color for the part of the pie that represents the percentage of the selected scenarios that have been unsuccessfully executed.

The reports can be downloaded in PDF format.

[www.enercal.com/TEST/TEST/USK.DE](http://www.enercal.com/TEST/TEST/USK.DE)

» [Conformance Scenarios Execution Statistics Page](#)

SELECTION CRITERIA



[Print Report](#)

From the criteria section, the Mode-2 Operator can select the period of time (From, To, describing the scenario completion date/time) and/or the scenario group(s) of interest (multiple selection allowed). After pressing the SEARCH button, the statistical will be represented in the form of the three pies described above. Please note the following:

- The successful scenarios can be described either in dark blue, if passed with warning (e.g., if Compare Field By Field failed) or light blue, if passed without warning;
- The failed scenarios can be described either in dark red, if failed with warning (e.g., if Compare Field By Field failed) or light red, if passed without warning;
- The statistics only refer to scenarios that were both initialized (i.e. contain ScenarioSetupLogEvent) and completed, either with success or failure (i.e. contain ScenarioCompletionLogEvent, for normal scenarios).

By pressing the Print Report button, the Operator can download a PDF-format report, containing, besides the selected criteria, both the pie images and the scenarios executions summaries tables:

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821, FV - 829, FV - 837, FV - 839, FV - 840, FV - 861, FV - 867, FV - 868, FV - 869, MF - 701, MF - 702, MF - 717, MF - 721, MF - 801, MF - 802, MF - 803, MF - 807, MF - 810, MF - 813, MF - 818, MF - 819, MF - 820, MF - 821, MF - 829, MF - 837, MF - 839, MF - 840, MF - 861, MF - 867, MF - 868, MF - 869, NF-03, NF-04, NF-05]

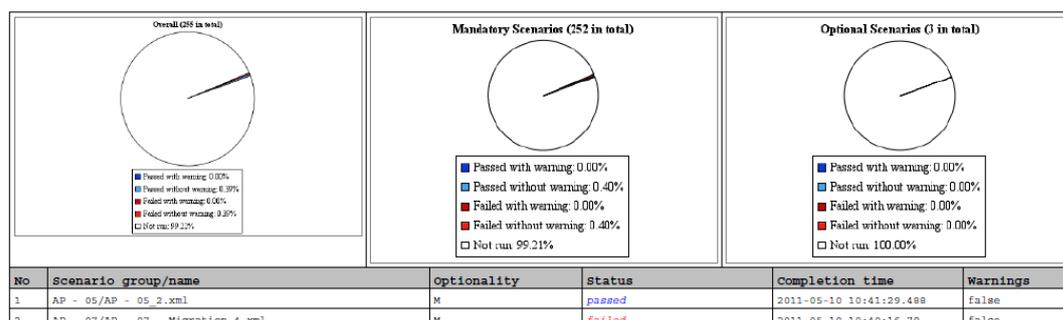
MSAs:

[DE]

Period of time:

N/A-N/A

## DE



## ANNEXES

### A. XML EDITING

In order to manage XML files needed, for example, for editing and uploading templates, messages, scenarios, instantiation data and reference data, Notepad should be avoided and an open-source XML Editor implementation should be used.

We recommend Open XML Editor: [Removed].

### B. SCENARIO FILE DESCRIPTION

The scenario XML file reflects the characteristics of the scenarios used in the conformance testing phase, as described in the CTP specifications.

A scenario has the following general characteristics, mapped by the following tags and/or attributes:

- [Removed] (attribute of the <[Removed]> tag, type:long): this reflects the general category of the scenario, from the following available:
  - Application Protocol Tests (AP): aims at proving that a NEA is conformant to the CD interface specifications for the individual message protocols;
  - Business Tests (BS): verifies the compliance at the interface in case of real business exchange of messages;
  - Exception Tests: verifies if NEA under test responds correctly to erroneous messages;
    - Field Format Violations (FV);
    - Mandatory Field Violations (MF);

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- Technical Codelist Violations (CL);
- Messages out-of-sequence Violations (EH).

Each category has a corresponding long value.

- [Removed] (attribute of the <[Removed]> tag, type:string): each scenario category has one or more specific scenario groups contained within, and this is described by the group element;
- [Removed] (attribute of the <[Removed]> tag, type:string): the “Functional Stage” marks to which Functional Stage (FS1/FS2) each scenario applies.
- [Removed] (attribute of the <[Removed]> tag, type:string): specifies if that scenario is mandatory or not for the MSA execution during the Conformance Testing.
- [Removed], [Removed], [Removed], [Removed] (attributes of the <[Removed]> tag, type:string):scenario metadata, referring to the CTP and DDNEA versions; NOTE: [Removed] and [Removed]are not used anymore but are kept for XSD compliance;
- [Removed] (sub-element of the <[Removed]> tag, type:string): briefly describes the purpose of the scenario;
- [Removed] (sub-element of the <[Removed]> tag, type:string): a more detailed description of the scenario purpose;
- [Removed] (sub-element of the <[Removed]> tag, type:string): “pass” criteria for the scenario;
- [Removed] (sub-element of the <[Removed]> tag, type:string): additional information about the scenario and additional comments;
- [Removed] (sub-element of the <[Removed]> tag, type:composite): each scenario is defined as a collection of steps, hence the existence of the <[Removed]> and <[Removed]> tags.

Each step of the scenario is defined by some general characteristics itself and by a set of actions to perform:

- [Removed] (attribute of the <[Removed]> tag, type:positiveInteger): this defined the sequencing position of the respective step, for example, a step with an id of 1 will be performed first, a step with the id 2 will be performed second and so on;
- [Removed] (attribute of the <[Removed]> tag, type:string): this defines the optionality of the step. If one step is mandatory, then the whole scenario must be mandatory.

Each step consists of sending one message between two actors (sender and receiver), hence the <[Removed]> sub-elements are <[Removed]>, <[Removed]> and <[Removed]>:

- [Removed] (sub-element of the <step> tag): specifies details related to the sender of the message for that specific step;
- [Removed] (attribute of the <[Removed]> tag, type:string): specifies the name of the sender (either [Removed] or [Removed]);
- [Removed] (attribute of the <[Removed]> tag, type:positiveInteger): specifies the role id of the sender (corresponds to MSA of Destination, MSA of Dispatch, Former MSA of Destination, New MSA of Destination or Requesting MSA);
- [Removed] (sub-element of the <[Removed]> tag): specifies details related to the receiver of the message for that specific step;
- [Removed] (attribute of the <[Removed]> tag, type:string): specifies the name of the receiver (either TA or NEA);
- [Removed] (attribute of the <[Removed]> tag, type:positiveInteger): specifies the role id of the receiver (corresponds to MSA of Destination, MSA of Dispatch, Former MSA of Destination, New MSA of Destination or Requesting MSA);

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- [Removed] (sub-element of the <[Removed]> tag): specifies details related to the message (the [Removed]) to be sent in that specific step;
- [Removed] (attribute of the <[Removed]> tag, type:string): specifies the IE category of the message (e.g., “[Removed]”);
- [Removed]and [Removed] (attributes of the <[Removed]> tag, type:string): allow the specification of the Dataset to use ([Removed]) and the exact instance of the [Removed] to use in that dataset;
- [Removed] (attribute of the <[Removed]> tag, type: string): this optional attribute is mainly used for the erroneous scenarios (Exception Tests) category to specify a specific id of the erroneous message to be used for the corresponding step;
- [Removed] (sub-element of the <[Removed]> tag): specifies the TA Country (alias) played by TA in that step. For example, if [Removed] is 1, it means that in that step, TA is [Removed] , meaning any message that is sent to TA should be sent on the [Removed] queue.

The scenario file structure can easily be adapted to the future requirements, by modifying the XSD accordingly.

A scenario XML sample is provided below (BS – 07).

The Scenario Definition Language, as defined by the scenario XML and the scenario XSD explained before, is stable and the scenarios created for one release of the TA will be usable in a further release.

[Removed]

*Figure 33: BS-07 scenario XML*

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*End of document*