EMCS overview

Enlargement presentations
for Croatia and Turkey
<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
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<tbody>
<tr>
<td>ACS</td>
<td>Acceptance and Certification Specification</td>
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<tr>
<td>BPR</td>
<td>Business PRototype</td>
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<td>CDEA</td>
<td>Centrally Developed Excises Application</td>
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<td>COS</td>
<td>Central Operation Services</td>
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<td>DDNEA</td>
<td>Design Document for National Excise Appl.</td>
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<td>EcOp</td>
<td>Economic Operators</td>
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<td>ECWP</td>
<td>Excise Committee Working Party</td>
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<td>EOL</td>
<td>Excise Office List</td>
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<td>ESS</td>
<td>Excise System Specification</td>
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<td>EWSE</td>
<td>Early Warning System for Excise</td>
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<td>FESS</td>
<td>Functional Excise System Specification</td>
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<td>Acronym</td>
<td>Description</td>
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<tr>
<td>MSA</td>
<td>Member States Administration</td>
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<td>MVS</td>
<td>Movement Verification System</td>
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<td>NDEA</td>
<td>Nationally Developed Excise Application</td>
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<td>PMP</td>
<td>Project Management Plan</td>
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<td>PSS</td>
<td>Phasing and Scoping</td>
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<td>SEED</td>
<td>System for the Exchange of Excise Data</td>
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<td>SESS</td>
<td>Security Excise System Specification</td>
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<tr>
<td>SfR-SfA</td>
<td>Submitted for Review – for Acceptance</td>
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<td>TESS</td>
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Presentation outline

- Legal background
- Baseline of Documentation
- FESS overview
- Overall planning
- Question session
General and legal context of EMCS

Origin and future evolutions
EMCS origin
- EMCS legal base
- EMCS objectives
- Evolution of the legal context
- Revision of Directive 92/12/EEC
- Commission Regulation amending Regulation EEC/2719/92 (AAD)
- Commission Regulation implementing Directive 92/12/EEC
- Regulation 2073/2004/EC and Directive 2004/106/EC on administrative cooperation in the field of excise duty
EMCS Origin

• 1 January 1993: creation of the Internal Market ⇒ free movement of goods

• For excise products: MS wanted to continue to closely monitor movements of excise products, to establish the chargeability of the duty

• ⇒ The movement document (AAD) was introduced
EMCS origin (ctd)

- High level group on fraud in the alcohol and tobacco sector (ECOFIN Council of 19.05.1997):
  - Estimated annual fraud at:  
    - 1.5 bn Euro (alcohol)
    - 3.3 bn Euro (tobacco)
  - Paper-based movement system was open to fraud (late return of copy 3; false stamps; authorities not or not timely informed about movements;…)

- Main conclusion of high level group:
  - Need for more systematic intervention by the authorities in the existing trader-to-trader system
  - Recommended that by far the best means of achieving this in the medium to long-term would be the introduction of a computerised movement and control system
  - In the meantime, existing systems have to be improved (SEED, EWSE, MVS)
EMCS legal base


- Imposes the development of EMCS within 6 years as from publication (by 1 July 2009)

- Defines respectively the obligations of COM and MS
  - COM: coordinate setting-up and running of EC and non-EC components of EMCS (draw up master plan and management plans)
  - MS: complete tasks allocated to them by the dates specified in the management plans

- Provides a **35 M€ budget** to COM to develop the common domain.

- Obliges **MS** to make available necessary budgets and human resources
EMCS objectives

Improvement of the functioning of Internal Market by:

• Simplifying the movement of goods under suspension of excise duties

• Monitoring the movement of the excisable goods (real time information, checks during movement)

• Electronic transmission of the accompanying document and the improvement of checks

• The development of a security policy of the highest standard possible

• The setting-up of Instruments for the exploitation of data to combat fraud
Evolution of the legal context
Revision of Directive 92/12/EEC

What does the revision involve?

- **Codification**: New Dir. replacing basic Dir. + all subsequent changes
- **Adapt the Dir. to EMCS**:  
  - Make use of EMCS mandatory  
  - Take account of functional specifications
- **Modernise** and **simplify**
- Take account of **ECJ rulings** and decisions of the **excise committee**
II. Commission Regulation amending Regulation EEC/2719/92 (AAD)

- **Goal:**
  - revise the design and content of the AAD to integrate the requirements of EMCS

- **Timing:**
  - 2006 (after adoption of the FESS)
Commission Regulation implementing Directive 92/12/EEC

Goal:

- fix the key components of EMCS, resulting from the functional and technical specifications (provide for a legal basis)
- set up the main technical rules and procedures

Timing: 2007
Regulation N° 2073/2004 of 16 November 2004 on administrative cooperation in the field of excise duties

- Entry into force: 1st July 2005
- Reinforce, decentralise and simplify mutual assistance
- Introduced provisions for SEED V1, EWSE, MVS, use of EMCS for mutual assistance (group 3 of activities in the FS)
- Implementing Regulation under preparation
EMCS Computerisation Project

Overview of Documentation Baseline
Entry into force Regulation 2073/2004

Administrative cooperation

EWSE and MVS e-forms

SEED V.0

9 December 2005

QA training

2006

2007

2008
High Level Group (HLG)

- HLG set up in 1997 to make recommendations on combating fraud in the excise area
- Report in 1998, main recommendations:
  - Short term
    - Set up an EWSE for excise
    - Strengthen mutual assistance and risk analysis
    - Code of best practice for authorizing warehousekeepers
  - Long term
    - Adopt a computerized system for the control of movements

Introduced July 1999
R 2073/2004
Recommendation 2000/789/EEC
EMCS Project
Feasibility Study for EMCS

• Carried out in 1999-2000 by external consultant (Alcatel)

• Main outcomes:
  – Computerization is technically feasible
  – Necessary to replace the paper AAD by electronic communication
  – Three groups of functionality identified
    – **Group I: Mutual information** between administrations
      (reference data, SEED)
    – **Group II**: Electronic circuit of the AAD
    – **Group III: Additional modules**: Risk analysis, control, mutual assistance
Ad hoc Working Group

• Formed in 2000, 8 MSAs
• Objectives – Make recommendations for improvements to the excise procedures
• Main outcomes
  – **Final report** CED381
  – **Discussion documentation**: SEED, MVS, EWSE, AAD, Risk analysis, Excise number
  – **EWSE on AFIS** introduced December 2000
  – **MVS on CCN Mail** introduced May 2002
F.S Addendum (CED394rev1)

• Why an Addendum to the Feasibility Study?
  – Recent technological developments
  – Findings of the ad hoc Working Group
  – Importance of SEED
  – Candidate Countries
  – Similarities between EMCS and NCTS

• Objectives
  – A set of proposals for limited evolutions of the F.S.
  – A request for mandate to analyse further certain points during Phase 1 (Specifications)

Status: Approved
ExCom April 2003
EMCS PMP CED382rev2

- Project Plan for the EMCS Project
- Project Strategy
  - Main principles
  - Project in 1 + 3 Phases
- Project Organisation
  - Co-ordination
  - Stakeholders involved
- Security & Risk Management
- Planning

Status: Approved ExCom April 2003

Section superseded by Master Plan CED431
Master & Management Plans

• CED 429: Master & Management Plans explained

• Master Plan CED431
  – Excise Committee
  – long-term vision of the project (6 years)
  – the activities to be performed
  – all major synchronisation points

• Management Plans
  – ECWP
  – short & medium term (12-24 Months)
  – detail of a set of activities identified
  – set up enough in advance

Status: Approved ExCom
December 2003

Status: To be drawn up continuously
Master Plan: Identified Management Plans

- EMCS Legal and Procedural Framework
- Co-ordination and Support
- Information Programme
- Phase 0
- Phase 1 – ECP set-up & ESS
- Phase 2 & 3
  - Technical Design and Start Up Guide
  - Applications Specification, Development and Testing
  - Entry into operation, Roll out and Transition
  - …
Information Program

- Communication Strategy CED439rev1
  - Global approach on communication
  - "e-Excise" initiative
- Information Programme Definition CED446rev1
  - Definitions
  - Identification of stakeholders
  - Communication channels
- Information Policy & Management Plan

Status: Approved ExCom November 2003

Status: Approved ExCom January 2004
Project Plan Phase 0

Project Plan Phase 0 includes
• Objectives of Phase 0
• Identified requirements/proposed actions
• Planning

Part 1 CED404
SEED, EMCS-CO

Part 2 CED418
EWSE, MVS

Project Plan Phase 0
CED404rev2

Status: Approved
ExCom
November 2003

Planning:
Management Plan Phase 0 (CED462)
Accompanying Programme

- Accompanying programme for Accession Countries (CED441rev1)
  - Indicative planning
  - Guidelines for NPPs
  - Frequently Asked Questions (FAQ)
  - Transliteration
- Transliteration procedures – consolidated proposal (CED456)
- Frequently Asked Questions (FAQ) by Accession Countries now compiled in CED 452
Rules for ECWP

• Document CED 400rev3
• Sets out the role of ECWP visavis the Excise Committee
  – To discuss and make recommendations to the Excise Committee for adoption

Status: Approved ExCom
January 2004
SEED Procedures

- Harmonisation of Excise Number CED438rev2
  - 13 digits (ISO Code + 11 alphanumeric characters)

**Status: Approved ExCom January 04, entry into force 01.01.05 + 6 months**

- Updated SEED Manual (v3.3)
- New file format definition (v.13)
- Conformance testing documentation ("Conformance Test Protocol")
- CED 504 - Harmonised structure of the SEED Excise Number
# Specifications

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## Manuals

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- MSA Technical Training provided October 2005
- MSA User Training submitted for review 07/12/2005

* Submitted for Review
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• MSA Training provided June 2005
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E-Forms Solution

- The Commission provides a solution to create, view and validate EWSE/MVS XML messages
- The provided solution is based on Adobe® PDF e-form technology
- Enhanced language and character set support
- Requires Adobe® Reader® 7
- Integrates with standard e-mail clients (when CCN Mail 2 Phase 2 is available)
- This is ONE possible solution to exchange XML messages
Example (EWSE)
Example (MVS)
EMCS

FESS – Section I
General introduction
Content of section I

• 1. Introduction:.

• 2. Methodology: describes the way the model has been built.

• 3. Formalism used to document functionality: the graphical and textual elements of the representation of the functionality, and how they form a complete and consistent representation of the system.

• 4. System Overview introduces the main functionality and presents the general context diagram together with the actors.

• 5. General non-functional Requirements discusses the non-functional requirements of the EMCS systems.
  – Availability and performances
  – Security requirements
  – Interfacing with other systems (Customs applications; applications of economic operators, NCTS)
1. Introduction
1.1. Purpose of the FESS

- Define precisely the scope, context and participants of EMCS;

- Detail the whole functionality required;
  - describing all processing (computerised or not)
  - describing the usage of computerised tools provided both to economic operators and to the competent Administrations in the Member States and in the European Commission

- Serve as baseline for further design and development of technical components making up the operational EMCS.
1.4 Structure of the FESS

- **Section I**: General introduction
- **Section II**: Core business
  - UCs that make up the business life cycle of the AAD, and all possible variants
- **Section III**: SEED and reference data
  - UCs that care for creation, maintenance, and dissemination of the permanent information necessary to check the validity of the messages exchanged.
- **Section IV**: Follow-up and collaboration
  - UCs that allow MSAs to control the EMCS movements
- **Section V**: System administration
  - UCs that each MSA should implement in order to guarantee the optimal functioning of their EMCS application
- **Appendices A to F**
2. Methodology
General process threads

- **Operator departure**
  - **Consignor**
    - Introduce AAD
    - UC-201-110 Submit draft e-AAD
  - **MSA**
    - Control AAD and SEED data / Validation
    - UC-201-210 UC-201-220 Validate / Process draft e-AAD
    - Control and Risk analysis
    - UC-214-210 Performs risk assessment
    - EWSE (warning)
  - **Regular End of procedure**
    - UC-206-410 Process at MSA of dispatch
    - Control and Risk analysis
    - UC-214-210 Performs risk assessment
  - Regular End of procedure
  - UC-206.06 R_Consignor receives confirmation of delivery

- **MSA of dispatch**
  - Control AAD and SEED data / Validation
  - UC-201-210 UC-201-220 Validate / Process draft e-AAD
  - Control and Risk analysis
  - UC-214-210 Performs risk assessment
  - EWSE (warning)
  - **Regular End of procedure**
    - UC-206-410 Process at MSA of dispatch
    - Control and Risk analysis
    - UC-214-210 Performs risk assessment
  - Regular End of procedure
  - UC-206.06 R_Consignor receives confirmation of delivery

- **MSA of transit**
  - Receiving validated AAD
  - UC-201-310 Process at MSA of transit
  - Control and Risk analysis
  - UC-214-210 Performs risk assessment
  - EWSE (info.)
  - **Regular End of procedure**
    - UC-206-410 Process at MSA of dispatch
    - Control and Risk analysis
    - UC-214-210 Performs risk assessment
  - Regular End of procedure
  - UC-206.06 R_Consignee receives e-AAD

- **MSA of destination**
  - Receiving validated AAD
  - UC-201-410 Process at MSA of destination
  - Control and Risk analysis
  - UC-214-210 Performs risk assessment
  - EWSE (info.)
  - **Regular End of procedure**
    - UC-206-410 Process at MSA of dispatch
    - Control and Risk analysis
    - UC-214-210 Performs risk assessment
  - Regular End of procedure
  - UC-206.06 R_Consignee receives confirmation of delivery

- **Operator destination**
  - **Consignee**
    - Receiving validated AAD
    - UC-201-110 Submit draft e-AAD
    - Control and Risk analysis
    - UC-214-210 Performs risk assessment
    - EWSE (info.)
  - **Regular End of procedure**
    - UC-206-410 Process at MSA of dispatch
    - Control and Risk analysis
    - UC-214-210 Performs risk assessment
  - Regular End of procedure
  - UC-206.06 R_Consignee receives confirmation of delivery

**Arrival of goods**
- UC-206-110 Submit draft report of receipt

**9 December 2005 QA training**
Use cases

UC = an ordered (which does not mean sequential) and uninterruptible set of actions performed by a group of interacting actors, that takes and leaves all entities handled in a stable state

• A use case is identified by a code and has a name.
• The code: has the form UCg.xx where:
  – g: is a digit 0, 1, 2 or 3
  – xx is a two-digits number
• Both are arbitrary and do not have a significant meaning
• The name of a use case is a short phrase (less than one line) that describes its general functionality.
• Example:
  – UC2.01 : Submission and registration of e-AAD
Content of use cases

For each use case, the following information is given:

- **Overview**: a short description of the main features and purpose of the use case
- **Participants, motivations and commitments**
- **General conditions**: trigger; pre-conditions; post-conditions
- **Process flow-diagram**
- **List of events**
- **EBPs** (Elementary business processes)
- **Results**
UC2.01 Submission of e-AAD

- E_Consignor initiates movement

V  
  
UC-201-110 Submit draft e-AAD

V  
  
UC-201-210 Validate draft e-AAD

Invalid e-AAD (IE816:N_AAD_REF)

Valid e-AAD

UC-201-220 Create e-AAD

UC-201-120 Receive e-AAD

R_E-AAD rejection received

R_E-AAD released

R_Goods ready to be dispatched

UC-201-230 Start follow-up

R_Report of receipt expected

UC-201-310 Receive e-AAD at MSA of transit

UC-201-410 Receive at MSA of destination

PRO consignee

ORO consignee

R_Report of receipt expected

R_Report of receipt expected

Possibly, UC2.11 Dissemination of a replaced e-AAD

R_Report of receipt expected

R_Goods ready to be dis

For each concerned MSA of transit

R_Report of receipt expected

PRO consignee

ORO consignee

(any means)

consignor

MSA dispatch application

MSA transit application

MSA destination application

consignee
UC2.06 Submission of report of receipt

E_Consignee received consignment

UC-206-110 Submit draft report of receipt

UC-206-210 Validate draft report of receipt

UC-206-230 Register receipt at destination

UC-206-410 Register receipt at dispatch

R_Consignee received confirmation of delivery

R_Report of receipt rejection received

UC2.13 Ascertained losses

For each concerned MSA of transit

UC-206-310 Register receipt at transit

R_Movement discharged

R_Movement refused

UC-206-410 Register receipt at dispatch (IE806:C_DEL_DAT)

R_Movement discharged

R_Movement refused

Exempt where the consignor is a simple representative

R_Consignor received confirmation of delivery

E_Consignee received consignment (IE806:E_DEL_REF)

Valid report of receipt

Invalid report of receipt

R_Movement discharged

Delivery accepted

Delivery refused

R_Movement refused

For each concerned MSA of transit

UC-206-310 Register receipt at transit

R_Movement discharged

R_Movement refused

Delivery accepted

Delivery refused

R_Movement refused

UC-206-210 Validate draft report of receipt

Valid report of receipt

Invalid report of receipt (IE806:E_DEL_REF)

UC-206-110 Submit draft report of receipt

UC-206-210 Validate draft report of receipt

UC-206-230 Register receipt at destination

UC-206-410 Register receipt at dispatch

R_Consignee received confirmation of delivery

R_Report of receipt rejection received

UC2.13 Ascertained losses

For each concerned MSA of transit

UC-206-310 Register receipt at transit

R_Movement discharged

R_Movement refused

UC-206-410 Register receipt at dispatch (IE806:C_DEL_DAT)

R_Movement discharged

R_Movement refused

Exempt where the consignor is a simple representative

R_Consignor received confirmation of delivery

E_Consignee received consignment (IE806:E_DEL_REF)

Valid report of receipt

Invalid report of receipt

UC-206-110 Submit draft report of receipt

UC-206-210 Validate draft report of receipt

UC-206-230 Register receipt at destination

UC-206-410 Register receipt at dispatch

R_Consignee received confirmation of delivery

R_Report of receipt rejection received

UC2.13 Ascertained losses

For each concerned MSA of transit

UC-206-310 Register receipt at transit

R_Movement discharged

R_Movement refused

UC-206-410 Register receipt at dispatch (IE806:C_DEL_DAT)

R_Movement discharged

R_Movement refused

Exempt where the consignor is a simple representative

R_Consignor received confirmation of delivery

E_Consignee received consignment (IE806:E_DEL_REF)

Valid report of receipt

Invalid report of receipt
Planning overview
6 years plan


- EMCS Legal basis
- EWSE/MVS Step2.1 & Step 2.2 development
- SEED v.0
- FESS elaboration
- FESS review
- PSS, TESS & SESS elaboration
Specification – Timeline of reviews by MSA in 2006

- **March**: TESS
- **April**: SESS
- **May**: PSS
- **June**: ACS
- **July**: SD-2
- **August**: DDNEA, MP-2
Master Plan – main milestones

- **2005** - all system specifications should be completed by 2005 (Phase 1)
- **2006** – development in MSA and COM (Phase 2)
- **2007** – Conformance Testing for all
- From end **2007** – **mid 2008**: progressive entry into operation

- **2006** – start of *Phase 3* round of specifications
- **2007** – development in MSA and COM (Phase 3)
- **2008** – start of Conformance Testing
- From end **2008** – **mid 2009**: progressive entry into operation
Master Plan - revisited

2006 • 2005 – all system specifications should be completed by 2005 (Phase 1)

2007 • 2006 – development in MSA and COM (Phase 2)

2008 • 2007 – Conformance Testing for all
• From end 2007 – mid 2008: progressive entry into operation
  until mid-2009

after mid-2009
• 2006 – start of Phase 3 round of specifications
• 2007 – development in MSA and COM (Phase 3)

2008 • 2008 – start of Conformance Testing
• From end 2008 – mid 2009: progressive entry into operation