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English version

The Intrastat System - Part 1: The Implementation Model

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Foreword

The review of this document has been carried out against the rules as they were at the moment of the review. This domain is continuously evolving and the rules might change in the future. The compatibility with future version is not guaranteed but obviously an effort will be made to keep the different versions of rules as compatible as possible.

This model is the first part of a global CWA concerning electronic data interchange messages (INSTAT, INSRES) using XML. The implementation guidelines concerning each of these messages will be issued as separate parts of the same CWA.

The document has been developed by the CEN/ISSS Workshop eBES, EEG6/WG5 (eBES Expert group 6 / Statistics Working Group 5 – Foreign trade statistics – Internal version 6.3).

This document is a revision (Version 1.1) of CWA 14729-1:2003

The final review/endorsement round for this CWA was successfully closed on the 28 February 2005. The final text of this CWA was submitted to CEN for publication on the 25 May 2005.

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Introduction

The present CEN Workshop Agreement presents the Intrastat system implementation model for electronic data interchange using XML. Intrastat is the EC statistical collection system set up for compiling statistics relating to the trading of goods between Member States. It is a global model that covers the exchange of two statistical messages (INSTAT, INSRES).

This model is the first part of a global CWA. The implementation guidelines for the two messages (INSTAT, INSRES) are issued as separate parts of the same CWA.

This CWA is a revision of the previous version in which: syntax, consistency, semantics and content of already issued UML artifacts have been considered. Following there are detailed descriptions for all applied changes:

Activity Diagram

A number of changes have been made concerning the notation in the activity diagram associated with the use case "Submit Intrastat declaration". In the previous version (6.2), all state transition arrows do not make any distinction between guard conditions, events, arguments etc. On the contrary everything is displayed as guard condition, i.e. represented with brackets []. The correct notation for the state transition arrows / lines is as follows:

Arguments should be enclosed in parenthesis (), *guard conditions* should be enclosed in brackets [], *events* are not enclosed to any characters and a slash / must precede an *action*. An example of a fully specified state transition follows:

Event (args) [condition] / Action

Therefore, the following changes have been made regarding to the above-mentioned notation:

- [INSTAT] was replaced with (INSTAT) because it represents an argument and not a condition
- [INSRES] was replaced with (INSRES) because it represents an argument and not a condition.
- In the "Input Intrastat data –item level" activity, the text in the self state transition [add an item] was replaced with "add an item" because it represents an event.
- In the decision point following Approve Intrastat declaration activity the guard conditions [Declarant is TDP] and [Declarant is PSI] have been swapped.

INTRASTAT System Class Diagram

- Class **CountryOfOrigin** and Class **MemberStateConsDest** were merged in one common Class (since the same codelist is used) with a dual relationship with the **Item** Class

INSRES Class Diagram

Class INSTATEvelope was renamed to the more generic name "DeclarationsEnvelope" so as INSRES can be used as a response for both Intrastat and Extrastat declarations. The content of the message, i.e. whether it refers to either Intrastat or Extrastat declarations, will be identified by the additional XML attribute "declarationType". The value of this attribute will be either "instat" or "exstat".

1 Scope

The present document provides different models described in UML (Unified Modeling Language) as a basis for the definition of a DTD or an XML schema of the Intrastat declaration, called INSTAT/XML and its optional response, called INSRES/XML.

The context of the models is:- a company called PSI (Provider of Statistical Information) or a TDP (third declaring agent making declarations on behalf of PSIs) reports monthly statistics of intra-Community trade called Intrastat declaration to their CNA (Competent National Administration responsible for compiling statistics relating to the trading of goods between Member States). For this, the PSI or the TDP creates one or several Intrastat declarations and sends them to a Collecting Centre depending of the CNA located in one Member State of the European Union. When validating the received Intrastat declarations, the Collecting Centre can send a response related to these declarations to the PSI or the TDP.

The Intrastat regulation (Council Regulation (EEC) No 3330/91 of 7 November 1991 on the statistics relating to the trading of goods between Member States (OJ No L 316, 16.11.91)- normative reference 1) is the legal basis specifying the data collection system for intra-Community trade statistics.

Information and notices from the Commission on the "Explanatory notes to the INTRASTAT forms referred to in Article 2 of Commission Regulation (EEC) No 3590/92" (OJ No C 349, 31.12.92) – normative reference 2, give the necessary guidelines to complete the Intrastat forms and provide the statistics on trade between Member States.

These models are the following:

- **Use case diagram of collection of intra-Community trade statistics (Intrastat system);** this diagram shows the main function (use case) of the Intrastat system, the actors who perform or are involved in this function and the relationships between the actors and the use case. The use case **Submit Intrastat declaration (INSTAT)** is related to the submission and collection of the Intrastat declaration called INSTAT, subject of this specification. The activity and sequence diagrams detail this use case.
- **Activity diagram associated with the use case "Submit Intrastat declaration";** this diagram shows actors, chain of activities, decisions and flows inside this function.
- **Sequence diagram associated with the use case "Submit Intrastat declaration";** this diagram shows object interactions arranged in time sequence. In particular, it shows the actors participating in the interactions and the sequence of messages exchanged.
- **Class diagram of the Intrastat system;** this class diagram shows the static structure of the Intrastat system for application purpose, it describes the application domain. The classes are a set of objects that share the same attributes, operations, methods, relationships and semantics.
- **Class diagram of the INSTAT message;** this class diagram is based on the class diagram of the Intrastat system and shows the structure of the INSTAT message. The INSTAT/XML schema or DTD is derived from this class diagram.
- **Class diagram of the INSRES message;** this class diagram is based on the class diagram of the Intrastat system and shows the structure of the INSRES message, response to INSTAT message. The INSRES/XML schema or DTD is derived from this class diagram.

The models have been designed, validated and approved by delegates of Member States and Eurostat within the framework of CEN/ISSS WS/eBES EEG6/WG5

2 Normative References

The following normative documents contain provisions which, through reference in this text, constitute provisions of this CWA. For dated references, subsequent amendments to, or revisions of any of these publications, do not apply. However, parties to agreements based on this CWA are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies.

1. EEC No 3330/91, Council Regulation on the statistics relating to the trading of goods between Member States, November 1991
2. EEC No 3590/92, Council Regulation on the statistical information media for statistics on Trade between Member States, December 1992