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SUBJECT:

TARIC3-STP

System Test Plan - Part 5

DOCUMENT HISTORY

EDI.	REV.	DATE	DESCRIPTION	ACTION	SECTIONS/ PAGES
0	10	19/08/2008	Submitted for review to DG TAXUD.	Insert	All
1	00	12/09/2008	Submitted for acceptance to DG TAXUD.	Update	Some
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3	00	18/11/2010	Sent for Review to DG TAXUD	-	-
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3	20	27/05/2011	Implemented comments from DG TAXUD and QAC. Submitted for Acceptance to Taxation and Customs Union DG.	Update	As Required

TABLE OF CONTENTS

1. INTRODUCTION

1.1. Objective of this document

This document defines the system test plan to be followed in order to verify the functions of some specific domains of the TARIC3 CDCO system. This system test plan concerns only the system-to-system interface and is intended to validate the business logic layer of the TARIC3 CDCO system.

This document should be considered as a sub-document of the Master TARIC3 System Test Plan [TARIC3-STP] where the following domains are covered:

- Full Temporary Stop regulation;

- Explicit abrogation regulation;

- Complete abrogation regulation.

1.2. Structure of this document

Chapter 2 specifies the test cases related to the maintenance of TARIC data for the specific domains as specified in section 1.1 Objective of this document.

1.3. Intended audience

This document is intended for people responsible for testing the business logic layer of the TARIC3 CDCO system.

1.4. Abbreviations and acronyms

CDCO   Centrally Developed Centrally Operated

DDS   Data Dissemination System

JDBC   Java DataBase Connectivity

MS   Member State

SQL   Structured Query Language

TARIC   TARif Intégré Communautaire

TIN   Trader Identification Number

UNIX   Unix operation system

VAT   Value-Added Tax

VIES   VAT Information Exchange System

XML   eXtensible Markup Language

1.5. Reference documents

[TARIC3-FTS]   "TARIC3 - Functional Test Scenarios 2.00", Ref. TARIC3-FTS

[TARIC3-ITP]   "TARIC3 - Test Plan Introduction 7.10", Ref. TARIC3-ITP

[TARIC3-STP]   "TARIC3 – System Test Plan - Master", Ref. TARIC3-STP

1.6. Applicable documents

[ARCH]   "Tariff Application Technical Architecture Framework 6.00", Ref. TATAF

[TARIC3-FS]   "TARIC3 Functional Specifications 3.00", Ref. TARIC3-FS

[TARIC3-UI]   "TARIC3-UIS - User Interface Specification 2.00 Ref. TARIC3-UI

2. DATA MAINTENANCE

2.1. Full Temporary Stop regulation

2.1.1. Test case init_ref_full_temporary_stop_regulation_setup: Insertion of FTS regulation reference data

Message: **init_ref_full_temporary_stop_regulation_setup.xml**

Precondition: Make sure the database is empty.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable language with language id = *EN*, start date = *2000-01-01*:

- Message 2: Insert a stable language with language id = *FR*, start date = *2000-01-01*:

  o description 1: language id = *EN*, description = *English Description of fr*.

- Message 3: Insert a stable language with language id = *NL*, start date = *2000-01-01*:

  o description 1: language id = *EN*, description = *English Description of nl*.

  o description 2: language id = *FR*, description = *Description francaise nl*.

Transaction 02:

- Message 1: Insert a stable legal regulation with regulation id = *R0800001*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 2: Insert a stable legal regulation with regulation id = *R0801011*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 3: Insert a stable legal regulation with regulation id = *R0801013*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 4: Insert a stable legal regulation with regulation id = *C0801013*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 5: Insert a stable legal regulation with regulation id = *R0800002*, published date = *2008-01-01*,

official journal number = *1*, official journal page = *1*.

- Message 6: Insert a stable legal regulation with regulation id = *R0801012*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 7: Insert a stable legal regulation with regulation id = *R0800005*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 8: Insert a stable legal regulation with regulation id = *R0800004*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 9: Insert a stable legal regulation with regulation id = *R0801014*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 10: Insert a stable legal regulation with regulation id = *R0800011*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 11: Insert a stable legal regulation with regulation id = *R0802000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 12: Insert a stable legal regulation with regulation id = *R0800006*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 13: Insert a stable legal regulation with regulation id = *R0802002*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 14: Insert a stable legal regulation with regulation id = *R0802003*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 15: Insert a stable legal regulation with regulation id = *R0800009*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 16: Insert a stable legal regulation with regulation id = *R0802004*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 17: Insert a stable legal regulation with regulation id = *R0800012*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 18: Insert a stable legal regulation with regulation id = *R0803001*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 19: Insert a stable legal regulation with

regulation id = *R0803002*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 20: Insert a stable legal regulation with regulation id = *R0803003*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 21: Insert a stable legal regulation with regulation id = *R0803004*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 22: Insert a stable legal regulation with regulation id = *R0803008*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 23: Insert a stable legal regulation with regulation id = *R0803009*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 24: Insert a stable legal regulation with regulation id = *R0800013*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 25: Insert a stable legal regulation with regulation id = *R0804001*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 26: Insert a stable legal regulation with regulation id = *R0804002*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 27: Insert a stable legal regulation with regulation id = *R0804003*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 28: Insert a stable legal regulation with regulation id = *R0804004*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 29: Insert a stable legal regulation with regulation id = *R0804008*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 30: Insert a stable legal regulation with regulation id = *R0804009*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 31: Insert a stable legal regulation with regulation id = *C0801014*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 32: Insert a stable legal regulation with regulation id = *R0801015*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 33: Insert a stable legal regulation with regulation id = *R0801016*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 34: Insert a stable legal regulation with regulation id = *C0802010*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 35: Insert a stable legal regulation with regulation id = *R0801017*, published date = *2009-01-01*, official journal number = *1*, official journal page = *1*.

- Message 36: Insert a stable legal regulation with regulation id = *R0801018*, published date = *2009-01-01*, official journal number = *1*, official journal page = *1*.

- Message 37: Insert a stable legal regulation with regulation id = *R0803006*, published date = *2009-01-01*, official journal number = *1*, official journal page = *1*.

- Message 37: Insert a stable legal regulation with regulation id = *R0803007*, published date = *2009-01-01*, official journal number = *1*, official journal page = *1*.

- Message 38: Insert a stable legal regulation with regulation id = *R0803005*, published date = *2009-01-01*, official journal number = *1*, official journal page = *1*.

- Message 39: Insert a stable legal regulation with regulation id = *R0804005*, published date = *2009-01-01*, official journal number = *1*, official journal page = *1*.

- Message 40: Insert a stable legal regulation with regulation id = *R0804006*, published date = *2009-01-01*, official journal number = *1*, official journal page = *1*.

- Message 40: Insert a stable legal regulation with regulation id = *R0804007*, published date = *2009-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 3:

- Message 1: Insert a stable regulation group with regulation group id = *GGA*, start date = *2008-01-01*:

    o description 1: language id = *EN*, description = *English Description of country group*.

    o description 2: language id = *FR*, description = *French Description of country group*.

    o description 3: language id = *NL*, description = *Dutch Description of country group*.

Transaction 4:

- Message 1: Insert a stable regulation role type with regulation role type id = *5*, start date = *2008-01-01*:

  o description 1: language id = *EN*, description = *English Description*.

  o description 2: language id = *FR*, description = *French Description*.

  o description 3: language id = *NL*, description = *Dutch Description*.

- Message 1: Insert a stable regulation role type with regulation role type id = *1*, start date = *2008-01-01*:

  o description 1: language id = *EN*, description = *English Description*.

  o description 2: language id = *FR*, description = *French Description*.

  o description 3: language id = *NL*, description = *Dutch Description*.

- Message 3: Insert a stable prorogation regulation with regulation id = *R0800005*, regulation role type = *5*, approved flag = *1*.

Transaction 5:

- Message 2: Insert a stable base regulation with regulation id = *R0800001*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

- Message 3: Insert an unstable base regulation with regulation id = *R0800009*, regulation role type = *1*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 6:

- Message 1: Insert a stable regulation role type with regulation role type id = *4*, start date = *2008-01-01*:

  o description 1: language id = *EN*, description = *English Description*.

  o description 2: language id = *FR*, description = *French Description*.

  o description 3: language id = *NL*, description = *Dutch Description*.

- Message 2: Insert a stable modification regulation with regulation id = *R0800004*, regulation role type = *4*, start date = *2008-01-01*, regulation id = *R0800001*, regulation

role type = *1*, approved flag = *1*.

Transaction 7:

- Message 1: Insert a stable regulation role type with regulation role type id = *6*, start date = *2008-01-01*:

    o description 1: language id = *EN*, description = *English Description*.

    o description 2: language id = *FR*, description = *French Description*.

    o description 3: language id = *NL*, description = *Dutch Description*.

- Message 2: Insert a stable complete abrogation regulation with regulation id = *R0800006*, regulation role type = *6*, approved flag = *1*.

Transaction 8:

- Message 1: Insert a stable regulation role type with regulation role type id = *8*, start date = *2008-01-01*:

    o description 1: language id = *EN*, description = *English Description*.

    o description 2: language id = *FR*, description = *French Description*.

    o description 3: language id = *NL*, description = *Dutch Description*.

Expected output: The message is composed of transactions replying to the original transactions:

Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok.

Reply to transaction 3: Status ok.

Reply to transaction 4: Status ok.

Reply to transaction 5: Status ok.

Reply to transaction 6: Status ok.

Reply to transaction 7: Status ok.

Reply to transaction 8: Status ok.

Message: **dm_fts_setup.xml**

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, *init_ref_full_temporary_stop_regulation_setup.xml* messages should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable language with language id = *EN*, start date = *2000-01-01*:

Transaction 2:

- Message 1: Insert a stable language with language id = *FR*, start date = *2000-01-01*:

  o description 1: language id = *EN*, description = *English Description of fr*.

Transaction 3:

- Message 1: Insert a stable language with language id = *NL*, start date = *2000-01-01*:

  o description 1: language id = *EN*, description = *English Description of nl*.

  o description 2: language id = *FR*, description = *Description francaise nl*.

Transaction 4:

- Message 1: Insert a stable regulation group with regulation group id = *GGA*, start date = *2008-01-01*:

  o description 1: language id = *EN*, description = *English Description of country group*.

  o description 2: language id = *FR*, description = *French Description of country group*.

  o description 3: language id = *NL*, description = *Dutch Description of country group*.

Transaction 5:

- Message 1: Insert a stable regulation role type with regulation role type id = *1*, start date = *2008-01-01*:

  o description 1: language id = *EN*, description = *English Description*.

  o description 2: language id = *FR*, description = *French Description*.

  o description 3: language id = *NL*, description = *Dutch Description*.

Transaction 6:

- Message 1: Insert a stable regulation role type with regulation role type id = *8*, start date = *2008-01-01*:

  - o description 1: language id = *EN*, description = *English Description*.

  - o description 2: language id = *FR*, description = *French Description*.

  - o description 3: language id = *NL*, description = *Dutch Description*.

Transaction 7:

- Message 1: Insert a stable legal regulation with regulation id = *R0902000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 8:

- Message 1: Insert a stable base regulation with regulation id = *R0902000*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Transaction 9:

- Message 1: Insert a stable legal regulation with regulation id = *R0900002*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 10:

- Message 1: Insert a stable base regulation with regulation id = *R0900002*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Transaction 11:

- Message 1: Insert a stable legal regulation with regulation id = *R0900003*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 12:

- Message 1: Insert a stable base regulation with regulation id = *R0900003*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Transaction 13:

- Message 1: Insert a stable legal regulation with regulation id = *R0900004*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 14:

- Message 1: Insert a stable base regulation with regulation id = *R0900004*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Transaction 15:

- Message 1: Insert a stable legal regulation with regulation id = *R0904000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 16:

- Message 1: Insert a stable base regulation with regulation id = *R0904000*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Transaction 17:

- Message 1: Insert a stable legal regulation with regulation id = *R0906000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 18:

- Message 1: Insert a stable base regulation with regulation id = *R0906000*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Transaction 19:

- Message 1: Insert a stable regulation role type with regulation role type id = *6*, start date = *2008-01-01*:

  o description 1: language id = *EN*, description = *English Description*.

  o description 2: language id = *FR*, description = *French Description*.

  o description 3: language id = *NL*, description = *Dutch Description*.

Transaction 20:

- Message 1: Insert a stable legal regulation with regulation id = *R0800001*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 21:

- Message 1: Insert a stable base regulation with regulation id = *R0800001*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id =

GGA, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

__Expected output:__ The message is composed of transactions replying to the original transactions:

Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok.

Reply to transaction 3: Status ok.

Reply to transaction 4: Status ok.

Reply to transaction 5: Status ok.

Reply to transaction 6: Status ok.

Reply to transaction 7: Status ok.

Reply to transaction 8: Status ok.

Reply to transaction 9: Status ok.

Reply to transaction 10: Status ok.

Reply to transaction 11: Status ok.

Reply to transaction 12: Status ok.

Reply to transaction 13: Status ok.

Reply to transaction 14: Status ok.

Reply to transaction 15: Status ok.

Reply to transaction 16: Status ok.

Reply to transaction 17: Status ok.

Reply to transaction 18: Status ok.

Reply to transaction 19: Status ok.

Reply to transaction 20: Status ok.

Reply to transaction 21: Status ok.

2.1.2. Test case dm_fts_unstable_insert: Insert an unstable fts regulation

__Message:__ **dm_fts_unstable_insert.xml**

__Precondition:__ Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, *init_ref_full_temporary_stop_regulation_setup.xml* messages

should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert an unstable fts regulation with regulation id = *R0800000*, regulation role type = *8*, approved flag = *1*.

Transaction 2:

- Message 1: Insert an unstable fts regulation with regulation id = *R0800001*, regulation role type = *8*, start date = *01-01-2008*, approved flag = *1*.

Transaction 3:

- Message 1: Insert an unstable fts regulation with regulation id = *R0801011*, regulation role type = *8*, approved flag = *1*.

Transaction 4:

- Message 1: Request the fts regulation with query space field = *FTS REGULATION.FTS REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = =, constant = *R0801011*.

Transaction 5:

- Message 1: Insert an unstable fts regulation with regulation id = *R0801011*, regulation role type = *8*, approved flag = *1*.

Transaction 6:

- Message 1: Insert an unstable fts regulation with regulation id = *R0801013*, regulation role type = *8*, approved flag = *0*.

Transaction 7:

- Message 1: Insert an unstable fts regulation with regulation id = *C0801013*, regulation role type = *8*, approved flag = *0*.

Transaction 8:

- Message 1: Insert an unstable fts regulation with regulation id = *R0800001*, regulation role type = *8*, start date = *2008-01-01*, end date = *2007-12-31*, approved flag = *1*.

Transaction 9:

- Message 1: Insert an unstable fts regulation with regulation id = *R0800001*, regulation role type = *8*:

    o fts regulation action 1: regulation id = *R0800000*, regulation role type = *1*.

approved flag = *1*.

Transaction 10:

- Message 1: Insert an unstable fts regulation with regulation id = *R0800001*, regulation role type = *8*:

    o fts regulation action 1: regulation id = *R0800007*, regulation role type = *5*.

  approved flag = *1*.

Transaction 11:

- Message 1: Insert an unstable fts regulation with regulation id = *R0801012*, regulation role type = *8*:

    o fts regulation action 1: regulation id = *R0800001*, regulation role type = *1*.

    o fts regulation action 2: regulation id = *R0800004*, regulation role type = *4*.

  approved flag = *1*.

Transaction 12:

- Message 1: Request the fts regulation with query space field = *FTS REGULATION.FTS REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = =, constant = *R0801012*.

Transaction 13:

- Message 1: Insert a stable base regulation with regulation id = *C0801014*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 14:

- Message 1: Insert an unstable fts regulation with regulation id = *R0801014*, regulation role type = *8*:

    o fts regulation action 1: regulation id = *C0801014*, regulation role type = *1*.

  approved flag = *1*.

Transaction 15:

- Message 1: Insert a stable base regulation with regulation id = *R0801015*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 16:

- Message 1: Insert a stable complete abrogation regulation with regulation id = *R0801013*, regulation role

type = *6*:

regulation id = *R0801015*, regulation role type = *1*.

approved flag = *1*.

Transaction 17:

- Message 1: Insert an unstable fts regulation with regulation id = *R0800011*, regulation role type = *8*:

  o fts regulation action 1: regulation id = *R0801015*, regulation role type = *1*.

  approved flag = *1*.

Transaction 18:

- Message 1: Insert a stable base regulation with regulation id = *R0801016*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 19:

- Message 1: Insert an unstable fts regulation with regulation id = *R0802004*, regulation role type = *8*:

  o fts regulation action 1: regulation id = *R0801016*, regulation role type = *1*.

  o fts regulation action 2: regulation id = *R0801016*, regulation role type = *1*.

  approved flag = *1*.

Transaction 20:

- Message 1: Insert an unstable fts regulation with regulation id = *R0802003*, regulation role type = *8*:

  o fts regulation action 1: regulation id = *R0800001*, regulation role type = *1*.

  approved flag = *1*.

Expected output: The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on regulation.id : VR-ROL-2: The referenced legal regulation must exist.

Reply to transaction 2:

- Message 1, on start.date : GEN-INVALID-FORMAT-ERROR: Invalid format.

Reply to transaction 3:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 4:

- Message 1 : OK.

Reply to transaction 5:

- Message 1, on fts.regulation.ref : VR-ROL-1: The role-regulation reference (combination of regulation ID and regulation role type) must be unique in the universe of the stable and unstable data.

Reply to transaction 6:

- Message 1, on fts.regulation : VR-FTS-3: An FTS regulation must always be approved.

Reply to transaction 7:

- Message 1, on fts.regulation : VR-FTS-3: An FTS regulation must always be approved.

Reply to transaction 8:

- Message 1, on start.date : VR-PERIOD-1: Period end date must be greater than or equal to the start date. The absence of the end date indicates infinity into the future.

Reply to transaction 9:

- Message 1, on fts.regulation.ref : VR-FTSACT-1: The stopped regulation must refer to an existing regulation.

Reply to transaction 10:

- Message 1, on regulation.role.type : VR-FTSACT-8: The stopped regulation must refer to a measure-generating regulation.

- Message 1, on fts.regulation.ref : VR-FTSACT-1: The stopped regulation must refer to an existing regulation.

Reply to transaction 11:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 12:

- Message 1 : OK.

Reply to transaction 13:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 14:

- Message 1, on regulation.id : VR-FTSACT-3: A draft regulation cannot be fully temporary stopped.

Reply to transaction 15:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 16:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 17:

- Message 1, on fts.regulation.ref : VR-FTSACT-4: When creating the FTS regulation action, the stopped regulation reference cannot refer to a completely abrogated regulation.

Reply to transaction 18:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 19:

- Message 1, on fts.regulation.action[1] : VR-FTSACT-5: A Regulation can only be stopped once by the same FTS regulation.

- Message 1, on fts.regulation.action[2] : VR-FTSACT-5: A Regulation can only be stopped once by the same FTS regulation.

Reply to transaction 20:

- Message 1, on fts.regulation.ref : OK.

2.1.3. Test case dm_fts_unstable_update: Update an unstable fts regulation

Message: **dm_fts_unstable_update_01.xml**

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, *init_ref_full_temporary_stop_regulation_setup.xml* messages should be successfully processed by the system.

Content: Transaction 1:

- Message 1: Update the unstable fts regulation with regulation id = *R0800000*, regulation role type = *8*, approved flag = *1*.

Transaction 2:

- Message 1: Insert an unstable fts regulation with regulation id = *R0802000*, regulation role type = *8*, start date = *2008-01-01*, approved flag = *1*.

Transaction 3:

- Message 1: Update the unstable fts regulation with regulation id = *R0802000*, regulation role type = *8*, start date = *2008-01-01*, end date = *2007-12-31*, approved flag = *1*.

Transaction 4:

- Message 1: Update the unstable fts regulation with regulation id = *R0802000*, regulation role type = *8*, end date = *01-02-2008*, approved flag = *1*.

Transaction 5:

- Message 1: Insert a stable fts regulation with regulation id = *R0802002*, regulation role type = *8*, start date = *2008-01-01*, approved flag = *1*.

Transaction 6:

- Message 1: Insert a stable complete abrogation regulation with regulation id = *R0800002*, regulation role type = *6*:

    regulation id = *R0802002*, regulation role type = *8*.

  approved flag = *1*.

Transaction 7:

- Message 1: Update the stable fts regulation with regulation id = *R0802002*, regulation role type = *8*, start date = *2008-01-01*, approved flag = *1*.

Transaction 8:

- Message 1: Insert a stable fts regulation with regulation id = *R0800012*, regulation role type = *8*, start date = *2008-01-01*, approved flag = *1*.

Transaction 9:

- Message 1: Update the stable fts regulation with regulation id = *R0800012*, regulation role type = *8*, start date = *2008-01-01*, approved flag = *0*.

Transaction 10:

- Message 1: Insert an unstable fts regulation with regulation id = *R0800013*, regulation role type = *8*, approved flag = *1*.

Transaction 11:

- Message 1: Update the unstable fts regulation with regulation id = *R0800013*, regulation role type = *8*, start date = *2008-01-01*:

    o fts regulation action 1: regulation id = *R0800001*, regulation role type = *1*.

  approved flag = *1*.

Transaction 12:

- Message 1: Request the fts regulation with query space field = *FTS REGULATION.FTS REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = =, constant = *R0800013*.

Transaction 13:

- Message 1: Insert an unstable fts regulation with regulation id = *R0802004*, regulation role type = *8*,

approved flag = *1*.

Transaction 14:

- Message 1: Update the unstable fts regulation with regulation id = *R0802004*, regulation role type = *8*:

    o   fts regulation action 1: regulation id = *R0803001*, regulation role type = *1*.

    approved flag = *1*.

Transaction 15:

- Message 1: Update the unstable fts regulation with regulation id = *R0802004*, regulation role type = *8*:

    o   fts regulation action 1: regulation id = *R0800035*, regulation role type = *5*.

    approved flag = *1*.

Transaction 16:

- Message 1: Update the unstable fts regulation with regulation id = *R0802004*, regulation role type = *8*:

    o   fts regulation action 1: regulation id = *R0800001*, regulation role type = *1*.

    o   fts regulation action 2: regulation id = *R0800004*, regulation role type = *4*.

    approved flag = *1*.

Transaction 17:

- Message 1: Insert a stable base regulation with regulation id = *C0802010*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 18:

- Message 1: Insert an unstable fts regulation with regulation id = *R0803003*, regulation role type = *8*, approved flag = *1*.

Transaction 19:

- Message 1: Update the unstable fts regulation with regulation id = *R0803003*, regulation role type = *8*:

    o   fts regulation action 1: regulation id = *C0802010*, regulation role type = *1*.

    approved flag = *1*.

Transaction 20:

- Message 1: Insert a stable base regulation with regulation id = *R0803004*, regulation role type = *1*, start date =

2008-01-01, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 21:

- Message 1: Insert a stable complete abrogation regulation with regulation id = *R0803008*, regulation role type = *6*:

    regulation id = *R0803004*, regulation role type = *1*.

  approved flag = *1*.

Transaction 22:

- Message 1: Update the stable fts regulation with regulation id = *R0803003*, regulation role type = *8*, start date = *2008-01-01*:

    o fts regulation action 1: regulation id = *R0803004*, regulation role type = *1*.

  approved flag = *1*.

Transaction 23:

- Message 1: Insert a stable base regulation with regulation id = *R0803008*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 24:

- Message 1: Update the unstable fts regulation with regulation id = *R0803003*, regulation role type = *8*:

    o fts regulation action 1: regulation id = *R0803008*, regulation role type = *1*.

    o fts regulation action 2: regulation id = *R0803008*, regulation role type = *1*.

  approved flag = *1*.

Expected output:

Reply to transaction 1:

- Message 1, on fts.regulation.ref : VR-VI-1: Data to be updated must exist.

Reply to transaction 2:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 3:

- Message 1, on start.date : VR-PERIOD-1: Period end date must be greater than or equal to the start date. The absence of the end date indicates infinity into the future.

Reply to transaction 4:

- Message 1, on end.date : GEN-INVALID-FORMAT-

ERROR: Invalid format.

Reply to transaction 5:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 6:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 7:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 8:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 9:

- Message 1, on fts.regulation : VR-FTS-3: An FTS regulation must always be approved.

- Message 1, on regulation.id : VR-ROL-7: A role-regulation can only be modified from unapproved to approved, not the other way around.

Reply to transaction 10:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 11:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 12:

- Message 1 : OK.

Reply to transaction 13:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 14:

- Message 1, on fts.regulation.ref : VR-FTSACT-1: The stopped regulation must refer to an existing regulation.

Reply to transaction 15:

- Message 1, on regulation.role.type : VR-FTSACT-8: The stopped regulation must refer to a measure-generating regulation.

- Message 1, on fts.regulation.ref : VR-FTSACT-1: The stopped regulation must refer to an existing regulation.

Reply to transaction 16:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 17:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 18:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 19:

- Message 1, on regulation.id : VR-FTSACT-3: A draft regulation cannot be fully temporary stopped.

Reply to transaction 20:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 21:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 22:

- Message 1, on fts.regulation.ref : VR-FTSACT-4: When creating the FTS regulation action, the stopped regulation reference cannot refer to a completely abrogated regulation.

Reply to transaction 23:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 24:

- Message 1, on fts.regulation.action[1] : VR-FTSACT-5: A Regulation can only be stopped once by the same FTS regulation.

- Message 1, on fts.regulation.action[2] : VR-FTSACT-5: A Regulation can only be stopped once by the same FTS regulation.

2.1.4. Test case dm_fts_unstable_delete: Delete an unstable fts regulation

Message: **dm_fts_unstable_delete_01.xml**

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, *init_ref_full_temporary_stop_regulation_setup.xml* messages should be successfully processed by the system.

Content: Transaction 1:

- Message 1: Insert an unstable fts regulation with regulation id = *R0802000*, regulation role type = *8*:

  o fts regulation action 1: regulation id = *R0800001*, regulation role type = *1*.

  approved flag = *1*.

Transaction 2:

- Message 1: Delete the fts regulation with regulation id = *R0802000*, regulation role type = *8*.

Transaction 3:

- Message 1: Insert a stable fts regulation with regulation

id = *R0802002*, regulation role type = *8*, start date = *2008-01-01*, approved flag = *1*.

Transaction 4:

- Message 1: Insert a stable complete abrogation regulation with regulation id = *R0800002*, regulation role type = *6*:

    regulation id = *R0802002*, regulation role type = *8*.

    approved flag = *1*.

Transaction 5:

- Message 1: Delete the fts regulation with regulation id = *R0802002*, regulation role type = *8*.

Transaction 6:

- Message 1: Insert an unstable fts regulation with regulation id = *R0802003*, regulation role type = *8*, approved flag = *1*.

Transaction 7:

- Message 1: Delete the fts regulation with regulation id = *R0802003*, regulation role type = *8*.

Transaction 8:

- Message 1: Request the fts regulation with query space field = *FTS REGULATION.FTS REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = =, constant = *R0802003*.

Transaction 9:

- Message 1: Delete the fts regulation with regulation id = *R0802003*, regulation role type = *8*.

Expected output:

Reply to transaction 1:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 2:

- Message 1, on fts.regulation.ref : VR-FTS-4: An FTS regulation cannot be deleted if it stops at least one regulation, if it has been abrogated or if it has been replaced.

Reply to transaction 3:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 4:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 5:

- Message 1, on fts.regulation.ref : VR-FTS-4: An FTS regulation cannot be deleted if it stops at least one

regulation, if it has been abrogated or if it has been replaced.

Reply to transaction 6:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 7:

- Message 1, on regulation.id : OK.

Reply to transaction 8:

- Message 1 : OK.

Reply to transaction 9:

- Message 1, on fts.regulation.ref : VR-VI-3: Data to be deleted must exist.

2.1.5. Test case dm_fts_stable_insert: Insert a stable fts regulation

Message: **dm_fts_stable_insert.xml**

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, *init_ref_full_temporary_stop_regulation_setup.xml* messages should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable fts regulation with regulation id = *R0800000*, regulation role type = *8*, start date = *2008-01-01*, approved flag = *1*.

Transaction 2:

- Message 1: Insert a stable fts regulation with regulation id = *R0800001*, regulation role type = *8*, start date = *01-01-2008*, approved flag = *1*.

Transaction 3:

- Message 1: Insert a stable fts regulation with regulation id = *R0801011*, regulation role type = *8*, start date = *2008-01-04*, approved flag = *1*.

Transaction 4:

- Message 1: Request the fts regulation with query space field = *FTS REGULATION.FTS REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = =, constant = *R0801011*.

Transaction 5:

- Message 1: Insert a stable fts regulation with regulation id = *R0801011*, regulation role type = *8*, start date =

2008-01-01, approved flag = *1*.

Transaction 6:

- Message 1: Insert a stable fts regulation with regulation id = *R0801013*, regulation role type = *8*, start date = *2008-01-01*, approved flag = *0*.

Transaction 7:

- Message 1: Insert a stable fts regulation with regulation id = *C0801013*, regulation role type = *8*, start date = *2008-01-01*, approved flag = *0*.

Transaction 8:

- Message 1: Insert a stable fts regulation with regulation id = *R0800001*, regulation role type = *8*, start date = *2008-01-01*, end date = *2007-12-31*, approved flag = *1*.

Transaction 9:

- Message 1: Insert a stable fts regulation with regulation id = *R0800001*, regulation role type = *8*, start date = *2008-01-01*:

    o fts regulation action 1: regulation id = *R0800000*, regulation role type = *1*.

  approved flag = *1*.

Transaction 10:

- Message 1: Insert a stable fts regulation with regulation id = *R0800001*, regulation role type = *8*, start date = *2008-01-01*:

    o fts regulation action 1: regulation id = *R0800035*, regulation role type = *5*.

  approved flag = *1*.

Transaction 11:

- Message 1: Insert a stable fts regulation with regulation id = *R0801012*, regulation role type = *8*, start date = *2008-01-01*:

    o fts regulation action 1: regulation id = *R0800001*, regulation role type = *1*.

    o fts regulation action 2: regulation id = *R0800004*, regulation role type = *4*.

  approved flag = *1*.

Transaction 12:

- Message 1: Request the fts regulation with query space field = *FTS REGULATION.FTS REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator

= =, constant = *R0801012*.

Transaction 13:

- Message 1: Insert a stable base regulation with regulation id = *C0801014*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 14:

- Message 1: Insert a stable fts regulation with regulation id = *R0801014*, regulation role type = *8*, start date = *2008-01-01*:

    o fts regulation action 1: regulation id = *C0801014*, regulation role type = *1*.

    approved flag = *1*.

Transaction 15:

- Message 1: Insert a stable base regulation with regulation id = *R0801015*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 16:

- Message 1: Insert a stable complete abrogation regulation with regulation id = *R0800009*, regulation role type = *6*:

    regulation id = *R0801015*, regulation role type = *1*.

    approved flag = *1*.

Transaction 17:

- Message 1: Insert a stable fts regulation with regulation id = *R0800011*, regulation role type = *8*, start date = *2008-01-01*:

    o fts regulation action 1: regulation id = *R0801015*, regulation role type = *1*.

    approved flag = *1*.

Transaction 18:

- Message 1: Insert a stable base regulation with regulation id = *R0801016*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 19:

- Message 1: Insert a stable fts regulation with regulation id = *R0800012*, regulation role type = *8*, start date = *2008-01-01*:

> > > o fts regulation action 1: regulation id = *R0801016*, regulation role type = *1*.

> > > o fts regulation action 2: regulation id = *R0801016*, regulation role type = *1*.

> > approved flag = *1*.

Transaction 20:

- Message 1: Insert a stable fts regulation with regulation id = *R0800012*, regulation role type = *8*:

  > o fts regulation action 1: regulation id = *R0800001*, regulation role type = *1*.

  approved flag = *1*.

Transaction 21:

- Message 1: Insert a stable fts regulation with regulation id = *R0802002*, regulation role type = *8*, start date = *2008-01-01*:

  > o fts regulation action 1: regulation id = *R0800009*, regulation role type = *1*.

  approved flag = *1*.

Transaction 22:

- Message 1: Insert a stable base regulation with regulation id = *R0801017*, regulation role type = *1*, start date = *2008-01-01*, end date = *2008-12-31*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

- Message 2: Insert a stable base regulation with regulation id = *R0804003*, regulation role type = *1*, start date = *2008-01-01*, end date = *2008-12-31*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

- Message 2: Insert a stable base regulation with regulation id = *R0804004*, regulation role type = *1*, start date = *2008-01-01*, end date = *2008-12-31*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 23:

- Message 1: Insert a stable fts regulation with regulation id = *R0802002*, regulation role type = *8*, start date = *2007-01-01*, end date = *2008-12-31*:

  > o fts regulation action 1: regulation id = *R0801017*, regulation role type = *1*.

  approved flag = *1*.

Transaction 24:

- Message 1: Insert a stable fts regulation with regulation id = *R0804002*, regulation role type = *8*, start date = *2008-01-01*, end date = *2009-12-31*:

  o fts regulation action 1: regulation id = *R0804003*, regulation role type = *1*.

  approved flag = *1*.

Transaction 25:

- Message 1: Insert a stable fts regulation with regulation id = *R0804008*, regulation role type = *8*, start date = *2008-01-01*, end date = *2008-12-31*:

  o fts regulation action 1: regulation id = *R0804004*, regulation role type = *1*.

  approved flag = *1*.

Transaction 26:

- Message 1: Insert a stable base regulation with regulation id = *R0801018*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 27:

- Message 1: Insert a stable fts regulation with regulation id = *R0802003*, regulation role type = *8*, start date = *2008-01-01*, end date = *2009-12-31*:

  o fts regulation action 1: regulation id = *R0801018*, regulation role type = *1*.

  approved flag = *1*.

Expected output:	The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on regulation.id : VR-ROL-2: The referenced legal regulation must exist.

Reply to transaction 2:

- Message 1, on start.date : GEN-INVALID-FORMAT-ERROR: Invalid format.

Reply to transaction 3:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 4:

- Message 1 : OK.

Reply to transaction 5:

- Message 1, on fts.regulation.ref : VR-ROL-1: The role-

regulation reference (combination of regulation ID and regulation role type) must be unique in the universe of the stable and unstable data.

Reply to transaction 6:

- Message 1, on fts.regulation : VR-FTS-3: An FTS regulation must always be approved.

Reply to transaction 7:

- Message 1, on fts.regulation : VR-FTS-3: An FTS regulation must always be approved.

Reply to transaction 8:

- Message 1, on start.date : VR-PERIOD-1: Period end date must be greater than or equal to the start date. The absence of the end date indicates infinity into the future.

Reply to transaction 9:

- Message 1, on fts.regulation.ref : VR-FTSACT-1: The stopped regulation must refer to an existing regulation.

Reply to transaction 10:

- Message 1, on regulation.role.type : VR-FTSACT-8: The stopped regulation must refer to a measure-generating regulation.

- Message 1, on fts.regulation.ref : VR-FTSACT-1: The stopped regulation must refer to an existing regulation.

Reply to transaction 11:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 12:

- Message 1 : OK.

Reply to transaction 13:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 14:

- Message 1, on regulation.id : VR-FTSACT-3: A draft regulation cannot be fully temporary stopped.

Reply to transaction 15:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 16:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 17:

- Message 1, on fts.regulation.ref : VR-FTSACT-4: When creating the FTS regulation action, the stopped regulation reference cannot refer to a completely abrogated regulation.

Reply to transaction 18:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 19:

- Message 1, on fts.regulation.action[1] : VR-FTSACT-5: A Regulation can only be stopped once by the same FTS regulation.

- Message 1, on fts.regulation.action[2] : VR-FTSACT-5: A Regulation can only be stopped once by the same FTS regulation.

Reply to transaction 20:

- Message 1, on start.date : VR-VI-7: When the publication status of data is set to "stable", all information tagged as mandatory in the data elements has to be provided.

Reply to transaction 21:

- Message 1, on fts.regulation.ref : VR-FTSACT-7: The stopped regulations must be stable when the FTS regulation is stable.

Reply to transaction 22:

- Message 1, on base.regulation.ref : OK.

- Message 2, on base.regulation.ref : OK.

- Message 2, on base.regulation.ref : OK.

Reply to transaction 23:

- Message 1, on fts.regulation.ref : VR-FTS-1: The validity period of the related stopped regulation must always span the validity period of the FTS regulation, whatever changes the stopped regulation or the FTS regulation validity periods might undergo.

Reply to transaction 24:

- Message 1, on fts.regulation.ref : VR-FTS-1: The validity period of the related stopped regulation must always span the validity period of the FTS regulation, whatever changes the stopped regulation or the FTS regulation validity periods might undergo.

Reply to transaction 25:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 26:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 27:

- Message 1, on fts.regulation.ref : OK.

2.1.6. Test case dm_fts_unstable_stable_update: Update an unstable fts regulation to stable

Message: **dm_fts_unstable_stable_update_01.xml**

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, *init_ref_full_temporary_stop_regulation_setup.xml* messages should be successfully processed by the system.

Content: Transaction 1:

- Message 1: Update the stable fts regulation with regulation id = *R0800000*, regulation role type = *8*, start date = *2008-01-01*, approved flag = *1*.

Transaction 2:

- Message 1: Insert an unstable fts regulation with regulation id = *R0802000*, regulation role type = *8*, start date = *2008-01-01*, approved flag = *1*.

Transaction 3:

- Message 1: Update the stable fts regulation with regulation id = *R0802000*, regulation role type = *8*, start date = *2008-01-01*, end date = *2007-12-31*, approved flag = *1*.

Transaction 4:

- Message 1: Update the stable fts regulation with regulation id = *R0802000*, regulation role type = *8*, start date = *2008-01-01*, end date = *01-02-2008*, approved flag = *1*.

Transaction 5:

- Message 1: Insert a stable fts regulation with regulation id = *R0803001*, regulation role type = *8*, start date = *2008-01-01*, approved flag = *1*.

Transaction 6:

- Message 1: Insert a stable complete abrogation regulation with regulation id = *R0801013*, regulation role type = *6*:

    regulation id = *R0803001*, regulation role type = *8*.

    approved flag = *1*.

Transaction 7:

- Message 1: Update the stable fts regulation with regulation id = *R0803001*, regulation role type = *8*, start date = *2008-01-01*, approved flag = *1*.

Transaction 8:

- Message 1: Insert a stable fts regulation with regulation id = *R0800012*, regulation role type = *8*, start date = *2008-01-01*, approved flag = *1*.

Transaction 9:

- Message 1: Update the stable fts regulation with regulation id = *R0800012*, regulation role type = *8*, start date = *2008-01-01*, approved flag = *0*.

Transaction 10:

- Message 1: Insert an unstable fts regulation with regulation id = *R0800013*, regulation role type = *8*, start date = *2008-01-01*, approved flag = *1*.

Transaction 11:

- Message 1: Update the stable fts regulation with regulation id = *R0800013*, regulation role type = *8*, start date = *2008-01-01*:

    o   fts regulation action 1: regulation id = *R0800001*, regulation role type = *1*.

  approved flag = *1*.

Transaction 12:

- Message 1: Request the fts regulation with query space field = *FTS REGULATION.FTS REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = =, constant = *R0800013*.

Transaction 13:

- Message 1: Insert an unstable fts regulation with regulation id = *R0803002*, regulation role type = *8*, start date = *2008-01-01*, approved flag = *1*.

Transaction 14:

- Message 1: Update the stable fts regulation with regulation id = *R0803002*, regulation role type = *8*, start date = *2008-01-01*:

    o   fts regulation action 1: regulation id = *R0800000*, regulation role type = *1*.

  approved flag = *1*.

Transaction 15:

- Message 1: Update the stable fts regulation with regulation id = *R0803002*, regulation role type = *8*, start date = *2008-01-01*:

    o   fts regulation action 1: regulation id = *R0800005*, regulation role type = *5*.

  approved flag = *1*.

Transaction 16a:

- Message 1: Insert a stable base regulation with regulation id = *R0803004*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

- Message 2: Insert a stable base regulation with regulation id = *R0803008*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 16b:

- Message 1: Insert a stable modification regulation with regulation id = *R0804009*, regulation role type = *4*, start date = *2008-01-01*, regulation id = *R0803008*, regulation role type = *1*, approved flag = *1*.

Transaction 16:

- Message 1: Update the stable fts regulation with regulation id = *R0803002*, regulation role type = *8*, start date = *2008-01-01*:

  - o fts regulation action 1: regulation id = *R0803004*, regulation role type = *1*.

  - o fts regulation action 2: regulation id = *R0803008*, regulation role type = *1*.

  approved flag = *1*.

Transaction 17:

- Message 1: Insert a stable base regulation with regulation id = *C0802010*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 18:

- Message 1: Insert an unstable fts regulation with regulation id = *R0803003*, regulation role type = *8*, approved flag = *1*.

Transaction 19:

- Message 1: Update the stable fts regulation with regulation id = *R0803003*, regulation role type = *8*, start date = *2008-01-01*:

  - o fts regulation action 1: regulation id = *C0801013*, regulation role type = *1*.

  approved flag = *1*.

Transaction 20:

- Message 1: Insert a stable base regulation with regulation

id = *R0804004*, regulation role type = *1*, start date =
2008-01-01, community code = *1*, regulation group id =
GGA, approved flag = *1*.

Transaction 21:

- Message 1: Insert a stable complete abrogation
  regulation with regulation id = *R0804008*, regulation role
  type = *6*:

    regulation id = *R0804004*, regulation role type =
    1.

  approved flag = *1*.

Transaction 22:

- Message 1: Update the stable fts regulation with
  regulation id = *R0803003*, regulation role type = *8*, start
  date = *2008-01-01*:

    o fts regulation action 1: regulation id = *R0804004*,
      regulation role type = *1*.

  approved flag = *1*.

Transaction 23:

- Message 1: Insert a stable base regulation with regulation
  id = *R0803005*, regulation role type = *1*, start date =
  2008-01-01, community code = *1*, regulation group id =
  GGA, approved flag = *1*.

Transaction 24:

- Message 1: Update the stable fts regulation with
  regulation id = *R0803003*, regulation role type = *8*, start
  date = *2008-01-01*:

    o fts regulation action 1: regulation id = *R0803005*,
      regulation role type = *1*.

    o fts regulation action 2: regulation id = *R0803005*,
      regulation role type = *1*.

  approved flag = *1*.

Transaction 25:

- Message 1: Insert a stable base regulation with regulation
  id = *R0803006*, regulation role type = *1*, start date =
  2008-02-01, end date = *2008-12-31*, community code =
  1, regulation group id = *GGA*, approved flag = *1*.

Transaction 26:

- Message 1: Insert an unstable fts regulation with
  regulation id = *R0803007*, regulation role type = *8*, start
  date = *2007-01-01*, end date = *2008-12-31*, approved flag
  = *1*.

Transaction 27:

- Message 1: Update the stable fts regulation with regulation id = *R0803007*, regulation role type = *8*, start date = *2008-01-01*, end date = *2008-12-30*:

  o fts regulation action 1: regulation id = *R0803006*, regulation role type = *1*.

  approved flag = *1*.

Transaction 28:

- Message 1: Insert an unstable fts regulation with regulation id = *R0803008*, regulation role type = *8*, start date = *2008-01-01*, end date = *2008-07-01*:

  o fts regulation action 1: regulation id = *R0803006*, regulation role type = *1*.

  approved flag = *1*.

Transaction 29:

- Message 1: Insert an unstable fts regulation with regulation id = *R0803009*, regulation role type = *8*, start date = *2008-06-01*, end date = *2008-12-31*, approved flag = *1*.

Transaction 30:

- Message 1: Update the stable fts regulation with regulation id = *R0803009*, regulation role type = *8*, start date = *2008-01-01*:

  o fts regulation action 1: regulation id = *R0803006*, regulation role type = *1*.

  approved flag = *1*.

Expected output:

Reply to transaction 1:

- Message 1, on fts.regulation.ref : VR-VI-1: Data to be updated must exist.

Reply to transaction 2:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 3:

- Message 1, on start.date : VR-PERIOD-1: Period end date must be greater than or equal to the start date. The absence of the end date indicates infinity into the future.

Reply to transaction 4:

- Message 1, on end.date : GEN-INVALID-FORMAT-ERROR: Invalid format.

Reply to transaction 5:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 6:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 7:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 8:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 9:

- Message 1, on fts.regulation : VR-FTS-3: An FTS regulation must always be approved.

- Message 1, on regulation.id : VR-ROL-7: A role-regulation can only be modified from unapproved to approved, not the other way around.

Reply to transaction 10:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 11:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 12:

- Message 1 : OK.

Reply to transaction 13:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 14:

- Message 1, on fts.regulation.ref : VR-FTSACT-1: The stopped regulation must refer to an existing regulation.

Reply to transaction 15:

- Message 1, on regulation.role.type : VR-FTSACT-8: The stopped regulation must refer to a measure-generating regulation.

Reply to transaction 16a:

- Message 1, on base.regulation.ref : OK.

- Message 2, on base.regulation.ref : OK.

Reply to transaction 16b:

- Message 1, on modification.regulation.ref : OK.

Reply to transaction 16:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 17:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 18:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 19:

- Message 1, on regulation.id : VR-FTSACT-3: A draft regulation cannot be fully temporary stopped.

- Message 1, on fts.regulation.ref : VR-FTSACT-1: The stopped regulation must refer to an existing regulation.

Reply to transaction 20:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 21:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 22:

- Message 1, on fts.regulation.ref : VR-FTSACT-4: When creating the FTS regulation action, the stopped regulation reference cannot refer to a completely abrogated regulation.

Reply to transaction 23:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 24:

- Message 1, on fts.regulation.action[1] : VR-FTSACT-5: A Regulation can only be stopped once by the same FTS regulation.

- Message 1, on fts.regulation.action[2] : VR-FTSACT-5: A Regulation can only be stopped once by the same FTS regulation.

Reply to transaction 25:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 26:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 27:

- Message 1, on fts.regulation.ref : VR-FTS-1: The validity period of the related stopped regulation must always span the validity period of the FTS regulation, whatever changes the stopped regulation or the FTS regulation validity periods might undergo.

Reply to transaction 28:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 29:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 30:

- Message 1, on fts.regulation.ref : VR-FTS-1: The

validity period of the related stopped regulation must always span the validity period of the FTS regulation, whatever changes the stopped regulation or the FTS regulation validity periods might undergo.

- Message 1, on fts.regulation.ref : VR-FTS-2: The validity periods of different non-completely abrogated FTS regulations stopping the same regulation, cannot overlap.

2.1.7. Test case dm_fts_stable_update: Update a stable fts regulation

Message: **dm_fts_stable_update_01.xml**

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, *init_ref_full_temporary_stop_regulation_setup.xml* messages should be successfully processed by the system.

Content: Transaction 1:

- Message 1: Update the stable fts regulation with regulation id = *R0800000*, regulation role type = *8*, start date = *2008-01-01*, approved flag = *1*.

Transaction 2:

- Message 1: Insert a stable fts regulation with regulation id = *R0802000*, regulation role type = *8*, start date = *2008-01-01*, approved flag = *1*.

Transaction 3:

- Message 1: Update the stable fts regulation with regulation id = *R0802000*, regulation role type = *8*, start date = *2008-01-01*, end date = *2007-12-31*, approved flag = *1*.

Transaction 4:

- Message 1: Update the stable fts regulation with regulation id = *R0802000*, regulation role type = *8*, start date = *2008-01-01*, end date = *01-02-2008*, approved flag = *1*.

Transaction 5:

- Message 1: Insert a stable fts regulation with regulation id = *R0804001*, regulation role type = *8*, start date = *2008-01-01*, approved flag = *1*.

Transaction 6:

- Message 1: Insert a stable complete abrogation regulation with regulation id = *R0800011*, regulation role type = *6*:

regulation id = *R0804001*, regulation role type = *8*.

approved flag = *1*.

Transaction 7:

- Message 1: Update the stable fts regulation with regulation id = *R0804001*, regulation role type = *8*, start date = *2008-01-01*, approved flag = *1*.

Transaction 8:

- Message 1: Insert a stable fts regulation with regulation id = *R0800012*, regulation role type = *8*, start date = *2008-01-01*, approved flag = *1*.

Transaction 9:

- Message 1: Update the stable fts regulation with regulation id = *R0800012*, regulation role type = *8*, start date = *2008-01-01*, approved flag = *0*.

Transaction 10:

- Message 1: Insert a stable fts regulation with regulation id = *R0800013*, regulation role type = *8*, start date = *2008-01-01*, approved flag = *1*.

Transaction 11:

- Message 1: Update the stable fts regulation with regulation id = *R0800013*, regulation role type = *8*, start date = *2008-01-01*:

  - o fts regulation action 1: regulation id = *R0800001*, regulation role type = *1*.

approved flag = *1*.

Transaction 12:

- Message 1: Request the fts regulation with query space field = *FTS REGULATION.FTS REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = =, constant = *R0800013*.

Transaction 13:

- Message 1: Insert a stable fts regulation with regulation id = *R0804002*, regulation role type = *8*, start date = *2008-01-01*, approved flag = *1*.

Transaction 14:

- Message 1: Update the stable fts regulation with regulation id = *R0804002*, regulation role type = *8*, start date = *2008-01-01*:

  - o fts regulation action 1: regulation id = *R0800000*, regulation role type = *1*.

approved flag = *1*.

Transaction 15:

- Message 1: Update the stable fts regulation with regulation id = *R0804002*, regulation role type = *8*, start date = *2008-01-01*:

  o fts regulation action 1: regulation id = *R0800005*, regulation role type = *5*.

approved flag = *1*.

Transaction 16:

- Message 1: Update the stable fts regulation with regulation id = *R0804002*, regulation role type = *8*, start date = *2008-01-01*:

  o fts regulation action 1: regulation id = *R0800004*, regulation role type = *4*.

approved flag = *1*.

Transaction 17:

- Message 1: Insert a stable base regulation with regulation id = *C0802010*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 18:

- Message 1: Insert a stable fts regulation with regulation id = *R0804003*, regulation role type = *8*, start date = *2008-01-01*, approved flag = *1*.

Transaction 19:

- Message 1: Update the stable fts regulation with regulation id = *R0804003*, regulation role type = *8*, start date = *2008-01-01*:

  o fts regulation action 1: regulation id = *C0802010*, regulation role type = *1*.

approved flag = *1*.

Transaction 20:

- Message 1: Insert a stable base regulation with regulation id = *R0804004*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 21:

- Message 1: Insert a stable complete abrogation regulation with regulation id = *R0804008*, regulation role type = *6*:

regulation id = *R0804004*, regulation role type = *1*.

approved flag = *1*.

Transaction 22:

- Message 1: Update the stable fts regulation with regulation id = *R0804003*, regulation role type = *8*, start date = *2008-01-01*:

    o fts regulation action 1: regulation id = *R0804004*, regulation role type = *1*.

    approved flag = *1*.

Transaction 23:

- Message 1: Insert a stable base regulation with regulation id = *R0804005*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 24:

- Message 1: Update the stable fts regulation with regulation id = *R0804003*, regulation role type = *8*, start date = *2008-01-01*:

    o fts regulation action 1: regulation id = *R0804005*, regulation role type = *1*.

    o fts regulation action 2: regulation id = *R0804005*, regulation role type = *1*.

    approved flag = *1*.

Transaction 25:

- Message 1: Insert a stable base regulation with regulation id = *R0804006*, regulation role type = *1*, start date = *2008-01-01*, end date = *2008-12-31*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 26:

- Message 1: Insert an unstable fts regulation with regulation id = *R0804007*, regulation role type = *8*, start date = *2007-01-01*, end date = *2008-12-31*, approved flag = *1*.

Transaction 27:

- Message 1: Update the stable fts regulation with regulation id = *R0804007*, regulation role type = *8*, start date = *2009-01-01*:

    o fts regulation action 1: regulation id = *R0804006*, regulation role type = *1*.

approved flag = *1*.

Transaction 28:

- Message 1: Insert a stable fts regulation with regulation id = *R0804008*, regulation role type = *8*, start date = *2008-01-01*, end date = *2008-07-01*:

    o fts regulation action 1: regulation id = *R0804006*, regulation role type = *1*.

  approved flag = *1*.

Transaction 29:

- Message 1: Insert a stable fts regulation with regulation id = *R0804009*, regulation role type = *8*, start date = *2008-06-01*, end date = *2008-12-31*, approved flag = *1*.

Transaction 30:

- Message 1: Update the stable fts regulation with regulation id = *R0804009*, regulation role type = *8*, start date = *2008-01-01*:

    o fts regulation action 1: regulation id = *R0804006*, regulation role type = *1*.

  approved flag = *1*.

Expected output:

Reply to transaction 1:

- Message 1, on fts.regulation.ref : VR-VI-1: Data to be updated must exist.

Reply to transaction 2:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 3:

- Message 1, on start.date : VR-PERIOD-1: Period end date must be greater than or equal to the start date. The absence of the end date indicates infinity into the future.

Reply to transaction 4:

- Message 1, on end.date : GEN-INVALID-FORMAT-ERROR: Invalid format.

Reply to transaction 5:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 6:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 7:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 8:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 9:

- Message 1, on fts.regulation : VR-FTS-3: An FTS regulation must always be approved.

- Message 1, on regulation.id : VR-ROL-7: A role-regulation can only be modified from unapproved to approved, not the other way around.

Reply to transaction 10:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 11:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 12:

- Message 1 : OK.

Reply to transaction 13:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 14:

- Message 1, on fts.regulation.ref : VR-FTSACT-1: The stopped regulation must refer to an existing regulation.

Reply to transaction 15:

- Message 1, on regulation.role.type : VR-FTSACT-8: The stopped regulation must refer to a measure-generating regulation.

Reply to transaction 16:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 17:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 18:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 19:

- Message 1, on regulation.id : VR-FTSACT-3: A draft regulation cannot be fully temporary stopped.

Reply to transaction 20:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 21:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 22:

- Message 1, on fts.regulation.ref : VR-FTSACT-4: When creating the FTS regulation action, the stopped regulation reference cannot refer to a completely abrogated regulation.

Reply to transaction 23:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 24:

- Message 1, on fts.regulation.action[1] : VR-FTSACT-5: A Regulation can only be stopped once by the same FTS regulation.

- Message 1, on fts.regulation.action[2] : VR-FTSACT-5: A Regulation can only be stopped once by the same FTS regulation.

Reply to transaction 25:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 26:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 27:

- Message 1, on fts.regulation.ref : VR-FTS-1: The validity period of the related stopped regulation must always span the validity period of the FTS regulation, whatever changes the stopped regulation or the FTS regulation validity periods might undergo.

Reply to transaction 28:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 29:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 30:

- Message 1, on fts.regulation.ref : VR-FTS-1: The validity period of the related stopped regulation must always span the validity period of the FTS regulation, whatever changes the stopped regulation or the FTS regulation validity periods might undergo.

- Message 1, on fts.regulation.ref : VR-FTS-2: The validity periods of different non-completely abrogated FTS regulations stopping the same regulation, cannot overlap.

2.1.8.   Test case dm_fts_stable_delete: Delete a stable fts regulation

Message: **dm_fts_stable_delete_01.xml**

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, *init_ref_full_temporary_stop_regulation_setup.xml* messages should be successfully processed by the system.

Content: Transaction 1:

- Message 1: Insert a stable fts regulation with regulation id = *R0802000*, regulation role type = *8*, start date = *2008-01-01*:

  o fts regulation action 1: regulation id = *R0800001*, regulation role type = *1*.

  approved flag = *1*.

Transaction 2:

- Message 1: Delete the fts regulation with regulation id = *R0802000*, regulation role type = *8*.

Transaction 3:

- Message 1: Insert a stable fts regulation with regulation id = *R0802002*, regulation role type = *8*, start date = *2008-01-01*, approved flag = *1*.

Transaction 4:

- Message 1: Insert a stable complete abrogation regulation with regulation id = *R0800002*, regulation role type = *6*:

    regulation id = *R0802002*, regulation role type = *8*.

  approved flag = *1*.

Transaction 5:

- Message 1: Delete the fts regulation with regulation id = *R0802002*, regulation role type = *8*.

Transaction 6:

- Message 1: Insert a stable fts regulation with regulation id = *R0802003*, regulation role type = *8*, start date = *2008-01-01*, approved flag = *1*.

Transaction 7:

- Message 1: Delete the fts regulation with regulation id = *R0802003*, regulation role type = *8*.

Transaction 8:

- Message 1: Request the fts regulation with query space field = *FTS REGULATION.FTS REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = *=*, constant = *R0802003*.

Transaction 9:

- Message 1: Delete the fts regulation with regulation id = *R0802003*, regulation role type = *8*.

Expected output:

Reply to transaction 1:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 2:

- Message 1, on fts.regulation.ref : VR-FTS-4: An FTS regulation cannot be deleted if it stops at least one regulation, if it has been abrogated or if it has been replaced.

Reply to transaction 3:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 4:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 5:

- Message 1, on fts.regulation.ref : VR-FTS-4: An FTS regulation cannot be deleted if it stops at least one regulation, if it has been abrogated or if it has been replaced.

Reply to transaction 6:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 7:

- Message 1, on regulation.id : OK.

Reply to transaction 8:

- Message 1 : OK.

Reply to transaction 9:

- Message 1, on fts.regulation.ref : VR-VI-3: Data to be deleted must exist.

2.1.9. Test case dm_fts_stable_insert_ 01: Overlap of FTS regulations

Message: **dm_fts_insert_setup_01.xml**

Precondition: Make sure the *dm_fts_setup.xml* message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable legal regulation with regulation id = *R0900000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 2:

- Message 1: Insert a stable base regulation with regulation

id = *R0900000*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Transaction 3:

- Message 1: Insert a stable legal regulation with regulation id = *R0901000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 4:

- Message 1: Insert a stable base regulation with regulation id = *R0901000*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Transaction 5:

- Message 1: Insert a stable legal regulation with regulation id = *R0903000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 6:

- Message 1: Insert a stable base regulation with regulation id = *R0903000*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Transaction 7:

- Message 1: Insert a stable legal regulation with regulation id = *R0905000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 8:

- Message 1: Insert a stable base regulation with regulation id = *R0905000*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Transaction 9:

- Message 1: Insert a stable legal regulation with regulation id = *R0907000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 10:

- Message 1: Insert a stable base regulation with regulation id = *R0907000*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Expected The message is composed of transactions replying to the original

output: transactions:

Reply to transaction 1:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 2:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 3:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 4:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 5:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 6:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 7:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 8:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 9:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 10:

- Message 1, on base.regulation.ref : OK.

Message: **dm_fts_stable_insert_01.xml**

Precondition: Make sure the message dm_fts_insert_setup_01.xml has been correctly processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable fts regulation with regulation id = *R0901000*, regulation role type = *8*, start date = *2008-03-01*, end date = *2008-12-31*:

    o fts regulation action 1: regulation id = *R0900000*, regulation role type = *1*.

  approved flag = *1*.

Transaction 2:

- Message 1: Insert a stable fts regulation with regulation

id = *R0902000*, regulation role type = *8*, start date = *2008-06-01*, end date = *2009-01-01*:

- o fts regulation action 1: regulation id = *R0900000*, regulation role type = *1*.

approved flag = *1*.

Transaction 3:

- Message 1: Insert a stable fts regulation with regulation id = *R0903000*, regulation role type = *8*, start date = *2008-06-30*, end date = *2008-12-31*:

  - o fts regulation action 1: regulation id = *R0900002*, regulation role type = *1*.

  approved flag = *1*.

Transaction 4:

- Message 1: Insert a stable fts regulation with regulation id = *R0904000*, regulation role type = *8*, start date = *2008-06-29*, end date = *2009-01-01*:

  - o fts regulation action 1: regulation id = *R0900002*, regulation role type = *1*.

  approved flag = *1*.

Transaction 5:

- Message 1: Insert a stable fts regulation with regulation id = *R0905000*, regulation role type = *8*, start date = *2008-06-30*, end date = *2008-12-31*:

  - o fts regulation action 1: regulation id = *R0900003*, regulation role type = *1*.

  approved flag = *1*.

Transaction 6:

- Message 1: Insert a stable fts regulation with regulation id = *R0906000*, regulation role type = *8*, start date = *2008-06-30*, end date = *2009-01-01*:

  - o fts regulation action 1: regulation id = *R0900003*, regulation role type = *1*.

  approved flag = *1*.

Transaction 7:

- Message 1: Insert a stable fts regulation with regulation id = *R0906000*, regulation role type = *8*, start date = *2008-01-01*, end date = *2008-06-30*:

  - o fts regulation action 1: regulation id = *R0900004*,

regulation role type = *1*.

approved flag = *1*.

Transaction 8:

- Message 1: Insert a stable fts regulation with regulation id = *R0907000*, regulation role type = *8*, start date = *2008-07-01*, end date = *2009-01-01*:

  o fts regulation action 1: regulation id = *R0900004*, regulation role type = *1*.

approved flag = *1*.

Expected output: The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 2:

- Message 1, on fts.regulation.ref : VR-FTS-2: The validity periods of different non-completely abrogated FTS regulations stopping the same regulation, cannot overlap.

Reply to transaction 3:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 4:

- Message 1, on fts.regulation.ref : VR-FTS-2: The validity periods of different non-completely abrogated FTS regulations stopping the same regulation, cannot overlap.

Reply to transaction 5:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 6:

- Message 1, on fts.regulation.ref : VR-FTS-2: The validity periods of different non-completely abrogated FTS regulations stopping the same regulation, cannot overlap.

Reply to transaction 7:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 8:

- Message 1, on fts.regulation.ref : OK.

2.1.10. Test case dm_fts_all_delete_01: Delete a stable fts regulation

Message: **dm_fts_all_delete_setup_01.xml**

Precondition: Make sure the *dm_fts_setup.xml* message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable legal regulation with regulation id = *R0800000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 2:

- Message 1: Insert a stable base regulation with regulation id = *R0800000*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Transaction 3:

- Message 1: Insert a stable legal regulation with regulation id = *R0810000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 4:

- Message 1: Insert a stable base regulation with regulation id = *R0810000*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Transaction 5:

- Message 1: Insert a stable fts regulation with regulation id = *R0810000*, regulation role type = *8*, start date = *2008-07-01*, end date = *2009-01-01*:

  o fts regulation action 1: regulation id = *R0800000*, regulation role type = *1*.

  approved flag = *1*.
Transaction 6:

- Message 1: Insert a stable legal regulation with regulation id = *R0830000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 7:

- Message 1: Insert a stable base regulation with regulation id = *R0830000*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*,

approved flag = *1*.

Transaction 8:

- Message 1: Insert a stable fts regulation with regulation id = *R0830000*, regulation role type = *8*, start date = *2008-07-31*, end date = *2009-01-01*:

    o fts regulation action 1: regulation id = *R0800001*, regulation role type = *1*.

approved flag = *1*.

Transaction 9:

- Message 1: Insert a stable complete abrogation regulation with regulation id = *R0830000*, regulation role type = *6*, approved flag = *1*.

Transaction 10:

- Message 1: Insert a stable legal regulation with regulation id = *R0840000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 11:

- Message 1: Insert a stable base regulation with regulation id = *R0840000*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Transaction 12:

- Message 1: Insert an unstable fts regulation with regulation id = *R0840000*, regulation role type = *8*, start date = *2008-07-01*, end date = *2009-01-01*:

    o fts regulation action 1: regulation id = *R0800000*, regulation role type = *1*.

approved flag = *1*.

Expected output: The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 2:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 3:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 4:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 5:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 6:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 7:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 8:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 9:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 10:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 11:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 12:

- Message 1, on fts.regulation.ref : OK.

Message: **dm_fts_all_delete_01.xml**

Precondition: Make sure the message dm_fts_all_delete_setup_01.xml has been correctly processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Delete the fts regulation with regulation id = *R0111111*, regulation role type = *8*.

Transaction 2:

- Message 1: Delete the fts regulation with regulation id = *R0810000*, regulation role type = *8*.

Transaction 3:

- Message 1: Delete the fts regulation with regulation id = *R0830000*, regulation role type = *8*.

Transaction 4:

- Message 1: Update the unstable fts regulation with regulation id = *R0840000*, regulation role type = *8*, start date = *2008-07-01*, end date = *2009-01-01*, replacement indicator = *1*, approved flag = *1*.

Transaction 5:

- Message 1: Delete the fts regulation with regulation id = *R0840000*, regulation role type = *8*.

Expected output: The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on fts.regulation.ref : VR-VI-3: Data to be deleted must exist.

Reply to transaction 2:
- Message 1, on fts.regulation.ref : VR-FTS-4: An FTS regulation cannot be deleted if it stops at least one regulation, if it has been abrogated or if it has been replaced.

Reply to transaction 3:
- Message 1, on fts.regulation.ref : VR-FTS-4: An FTS regulation cannot be deleted if it stops at least one regulation, if it has been abrogated or if it has been replaced.

Reply to transaction 4:
- Message 1, on fts.regulation.ref : OK.

Reply to transaction 5:
- Message 1, OK.

2.1.11. Test case dm_fts_unstable_stable_update_02: Update an unstable FTS

Message: **dm_fts_update_setup_01.xml**

Precondition: Make sure the *dm_fts_setup.xml* message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable legal regulation with regulation id = *R0900000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 2:
- Message 1: Insert a stable base regulation with regulation id = *R0900000*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Transaction 3:
- Message 1: Insert a stable legal regulation with regulation id = *R0800000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 4:

- Message 1: Insert a stable base regulation with regulation id = *R0800000*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Transaction 5:

- Message 1: Insert a stable fts regulation with regulation id = *R0800000*, regulation role type = *8*, start date = *2008-01-01*:

  o fts regulation action 1: regulation id = *R0900000*, regulation role type = *1*.

  approved flag = *1*.

Transaction 6:

- Message 1: Insert a stable legal regulation with regulation id = *R0700000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 7:

- Message 1: Insert a stable base regulation with regulation id = *R0700000*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Transaction 8:

- Message 1: Insert a stable legal regulation with regulation id = *C0600000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 9:

- Message 1: Insert a stable base regulation with regulation id = *C0600000*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Transaction 10:

- Message 1: Insert a stable fts regulation with regulation id = *C0600000*, regulation role type = *8*, start date = *2008-01-01*:

  o fts regulation action 1: regulation id = *R0700000*, regulation role type = *1*.

  approved flag = *1*.

Transaction 11:

- Message 1: Insert a stable legal regulation with

regulation id = *C0500000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 12:

- Message 1: Insert an unstable base regulation with regulation id = *C0500000*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Transaction 13:

- Message 1: Insert a stable legal regulation with regulation id = *R0400000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 14:

- Message 1: Insert a stable base regulation with regulation id = *R0400000*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Transaction 15:

- Message 1: Insert a stable fts regulation with regulation id = *C0500000*, regulation role type = *8*, start date = *2008-01-02*:

    o fts regulation action 1: regulation id = *R0400000*, regulation role type = *1*.

    approved flag = *1*.

Transaction 16:

- Message 1: Insert a stable legal regulation with regulation id = *R0300000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 17:

- Message 1: Insert a stable base regulation with regulation id = *R0300000*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Transaction 18:

- Message 1: Insert a stable legal regulation with regulation id = *C0200000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 19:

- Message 1: Insert an unstable base regulation with regulation id = *C0200000*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag

= *0*, approved flag = *1*.

Transaction 20:

- Message 1: Insert an unstable fts regulation with regulation id = *C0200000*, regulation role type = *8*, start date = *2008-01-01*:

    o fts regulation action 1: regulation id = *R0300000*, regulation role type = *1*.

    approved flag = *1*.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 2:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 3:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 4:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 5:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 6:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 7:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 8:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 9:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 10:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 11:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 12:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 13:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 14:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 15:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 16:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 17:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 18:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 19:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 20:

- Message 1, on fts.regulation.ref : OK.

Message: **dm_fts_unstable_stable_update_02.xml**

Precondition: Make sure the message dm_fts_update_setup_01.xml has been correctly processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the unstable fts regulation with regulation id = *R0800000*, regulation role type = *8*, start date = *2008-01-01*:

    o fts regulation action 1: regulation id = *R0900000*, regulation role type = *1*.

  approved flag = *1*.

Transaction 2:

- Message 1: Update the unstable fts regulation with regulation id = *C0600000*, regulation role type = *8*, start date = *2008-01-01*:

    o fts regulation action 1: regulation id = *R0700000*, regulation role type = *1*.

  approved flag = *1*.

Transaction 3:

- Message 1: Update the stable fts regulation with regulation id = *C0500000*, regulation role type = *8*, start date = *2008-01-01*:

o fts regulation action 1: regulation id = *R0400000*, regulation role type = *1*.

approved flag = *1*.

Transaction 4:

- Message 1: Update the stable fts regulation with regulation id = *C0200000*, regulation role type = *8*, start date = *2008-01-01*:

  o fts regulation action 1: regulation id = *R0300000*, regulation role type = *1*.

approved flag = *1*.

Expected output:	The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on stability.flag : VR-VI-11: The publication status of data can only be unstable if the information is new in the system or the previous version of the information also has publication status unstable.

Reply to transaction 2:

- Message 1, on stability.flag : VR-VI-11: The publication status of data can only be unstable if the information is new in the system or the previous version of the information also has publication status unstable.

Reply to transaction 3:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 4:

- Message 1, on fts.regulation.ref : OK.

2.1.12. Test case dm_fts_all_delete_02: Delete a non-existing data

Message:	**dm_fts_all_delete_02.xml**
Precondition:	Make sure the message dm_fts_all_delete_setup_01.xml has been correctly processed by the system.
Content:	The message is composed of the following transactions:

Transaction 1:

- Message 1: Delete the fts regulation with regulation id = *R0999999*, regulation role type = *8*.

Expected output:	The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on fts.regulation.ref : VR-VI-3: Data to be deleted must exist.

2.1.13. Test case dm_fts_stable_insert_02: stability dependencies

Message: **dm_fts_insert_setup_02.xml**

Precondition: Make sure the *dm_fts_setup.xml* message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable legal regulation with regulation id = *R0100000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 2:

- Message 1: Insert an unstable base regulation with regulation id = *R0100000*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Transaction 3:

- Message 1: Insert a stable legal regulation with regulation id = *R0200000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 4:

- Message 1: Insert a stable base regulation with regulation id = *R0200000*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Transaction 5:

- Message 1: Insert an unstable legal regulation with regulation id = *R0350000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 6:

- Message 1: Insert an unstable base regulation with regulation id = *R0350000*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Transaction 7:

- Message 1: Insert an unstable legal regulation with regulation id = *R0300000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 8:

- Message 1: Insert an unstable base regulation with regulation id = *R0300000*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Transaction 9:

- Message 1: Insert a stable legal regulation with regulation id = *R0400000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 10:

- Message 1: Insert a stable base regulation with regulation id = *R0400000*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Transaction 11:

- Message 1: Insert a stable legal regulation with regulation id = *R0500000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 12:

- Message 1: Insert a stable base regulation with regulation id = *R0500000*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Transaction 13:

- Message 1: Insert a stable legal regulation with regulation id = *R0600000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 14:

- Message 1: Insert a stable base regulation with regulation id = *R0600000*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Transaction 15:

- Message 1: Insert a stable legal regulation with regulation id = *R0700000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 16:

- Message 1: Insert a stable base regulation with regulation id = *R0700000*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Transaction 17:

- Message 1: Insert a stable legal regulation with regulation id = *R0800000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 18:

- Message 1: Insert a stable base regulation with regulation id = *R0800000*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Transaction 19:

- Message 1: Insert a stable legal regulation with regulation id = *R0900000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 20:

- Message 1: Insert a stable base regulation with regulation id = *R0900000*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Expected output: The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 2:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 3:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 4:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 5:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 6:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 7:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 8:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 9:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 10:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 11:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 12:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 13:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 14:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 15:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 16:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 17:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 18:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 19:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 20:

- Message 1, on base.regulation.ref : OK.

Message: **dm_fts_stable_insert_02.xml**

Precondition: Make sure the dm_fts_insert_setup_02.xml is processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable fts regulation with regulation id = *R0200000*, regulation role type = *8*, start date = *2008-01-01*, approved flag = *1*.

Transaction 2:

- Message 1: Insert a stable fts regulation with regulation

id = *R0350000*, regulation role type = *8*, start date = *2008-01-01*:

- o fts regulation action 1: regulation id = *R0100000*, regulation role type = *1*.

approved flag = *1*.

Transaction 3:

- Message 1: Insert a stable fts regulation with regulation id = *R0200000*, regulation role type = *8*, start date = *2009-01-01*:

    - o fts regulation action 1: regulation id = *R0100000*, regulation role type = *1*.

  approved flag = *1*.

Transaction 4:

- Message 1: Insert a stable fts regulation with regulation id = *R0500000*, regulation role type = *8*, start date = *2009-01-01*:

    - o fts regulation action 1: regulation id = *R0300000*, regulation role type = *1*.

    - o fts regulation action 2: regulation id = *R0400000*, regulation role type = *1*.

  approved flag = *1*.

Transaction 5:

- Message 1: Insert a stable fts regulation with regulation id = *R0900000*, regulation role type = *8*, start date = *2009-01-01*:

    - o fts regulation action 1: regulation id = *R0800000*, regulation role type = *1*.

  approved flag = *1*.

Expected output:	The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 2:

- Message 1, on fts.regulation.ref : VR-VI-6: When the publication status of data is set to stable, all foreign key reference data must exist as stable.

- Message 1, on fts.regulation.ref : VR-FTSACT-7: The stopped regulations must be stable when the FTS

regulation is stable.

Reply to transaction 3:

- Message 1, on fts.regulation.ref : VR-ROL-1: The role-regulation reference (combination of regulation ID and regulation role type) must be unique in the universe of the stable and unstable data.

- Message 1, on fts.regulation.ref : VR-FTSACT-7: The stopped regulations must be stable when the FTS regulation is stable.

Reply to transaction 4:

- Message 1, on fts.regulation.ref : VR-FTSACT-7: The stopped regulations must be stable when the FTS regulation is stable.

Reply to transaction 5:

- Message 1, on fts.regulation.ref : OK.

2.1.14. Test case dm_fts_unstable_stable_update_03.xml: stability dependencies

Message: **dm_fts_unstable_stable_update_03.xml**

Precondition: Make sure the dm_fts_insert_setup_02.xml is processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable fts regulation with regulation id = *R0900000*, regulation role type = *8*, start date = *2009-01-01*, approved flag = *1*.

Transaction 2:

- Message 1: Update the stable fts regulation with regulation id = *R0900000*, regulation role type = *8*, start date = *2010-01-01*:

    o fts regulation action 1: regulation id = *R0800000*, regulation role type = *2*.

  approved flag = *1*.

Expected output: The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 2:

- Message 1, on fts.regulation.ref : VR-FTSACT-1: The

stopped regulation must refer to an existing regulation.

2.1.15. Test case dm_fts_stable_insert_03: data element publication dependencies

Message: **dm_fts_insert_setup_03.xml**

Precondition: Make sure the *dm_fts_setup.xml* message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable legal regulation with regulation id = *R0100000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 2:

- Message 1: Insert a stable base regulation with regulation id = *R0100000*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Transaction 3:

- Message 1: Insert a stable legal regulation with regulation id = *R0200000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 4:

- Message 1: Insert a stable base regulation with regulation id = *R0200000*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Transaction 5:

- Message 1: Insert a stable legal regulation with regulation id = *R0300000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 6:

- Message 1: Insert a stable base regulation with regulation id = *R0300000*, regulation role type = *1*, start date = *2009-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Transaction 7:

- Message 1: Insert a stable legal regulation with regulation id = *R0400000*, published date = *2008-01-01*,

official journal number = *1*, official journal page = *1*.

Transaction 8:

- Message 1: Insert a stable base regulation with regulation id = *R0400000*, regulation role type = *1*, start date = *2009-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Transaction 9:

- Message 1: Insert a stable legal regulation with regulation id = *R0500000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 10:

- Message 1: Insert a stable base regulation with regulation id = *R0500000*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Transaction 11:

- Message 1: Insert a stable legal regulation with regulation id = *R0600000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 12:

- Message 1: Insert a stable base regulation with regulation id = *R0600000*, regulation role type = *1*, start date = *2009-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Transaction 13:

- Message 1: Insert a stable legal regulation with regulation id = *R0700000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 14:

- Message 1: Insert a stable base regulation with regulation id = *R0700000*, regulation role type = *1*, start date = *2009-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Transaction 15:

- Message 1: Insert a stable legal regulation with regulation id = *R0800000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 16:

- Message 1: Insert a stable base regulation with regulation id = *R0800000*, regulation role type = *1*, start date = *2009-01-01*, community code = *1*, regulation group id =

GGA, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Transaction 17:

- Message 1: Insert a stable legal regulation with regulation id = *R0900000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 18:

- Message 1: Insert a stable base regulation with regulation id = *R0900000*, regulation role type = *1*, start date = *2009-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 2:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 3:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 4:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 5:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 6:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 7:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 8:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 9:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 10:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 11:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 12:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 13:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 14:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 15:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 16:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 17:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 18:

- Message 1, on base.regulation.ref : OK.

Message: **dm_fts_stable_insert_03.xml**

Precondition: Make sure the message dm_fts_insert_setup_03.xml has been correctly processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable fts regulation with regulation id = *R0200000*, regulation role type = *8*, end date = *2008-06-01*:

  - fts regulation action 1: regulation id = *R0100000*, regulation role type = *1*.

  approved flag = *1*.

Transaction 2:

- Message 1: Insert a stable fts regulation with regulation id = *R0300000*, regulation role type = *8*, start date = *2009-01-01*:

  - fts regulation action 1: regulation id = *R0100000*, regulation role type = *1*.

  approved flag = *1*.

Expected output: The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on start.date : VR-VI-7: When the publication status of data is set to "stable", all information tagged as mandatory in the data elements has

to be provided.

Reply to transaction 2:

- Message 1, on fts.regulation.ref : OK.

2.1.16. Test case dm_fts_unstable_stable_update_04: data element publication dependencies

Message: **dm_fts_unstable_stable_update_04.xml**

Precondition: Make sure the message dm_fts_insert_setup_03.xml has been correctly processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert an unstable fts regulation with regulation id = *R0500000*, regulation role type = *8*, start date = *2008-01-01*, end date = *2008-06-01*:

    o fts regulation action 1: regulation id = *R0400000*, regulation role type = *1*.

  approved flag = *1*.

Transaction 2:

- Message 1: Update the stable fts regulation with regulation id = *R0500000*, regulation role type = *8*, end date = *2008-06-01*, approved flag = *1*.

Transaction 3:

- Message 1: Insert an unstable fts regulation with regulation id = *R0600000*, regulation role type = *8*:

    o fts regulation action 1: regulation id = *R0400000*, regulation role type = *1*.

  approved flag = *1*.

Transaction 4:

- Message 1: Update the stable fts regulation with regulation id = *R0600000*, regulation role type = *8*, start date = *2009-01-01*:

    o fts regulation action 1: regulation id = *R0400000*, regulation role type = *1*.

  approved flag = *1*.

Expected output: The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 2:

- Message 1, on start.date : VR-VI-7: When the publication status of data is set to "stable", all information tagged as mandatory in the data elements has to be provided.

Reply to transaction 3:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 4:

- Message 1, on fts.regulation.ref : OK.

2.1.17. Test case dm_fts_stable_update_02: data element publication dependencies

Message: **dm_fts_stable_update_02.xml**

Precondition: Make sure the message dm_fts_insert_setup_03.xml has been correctly processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable fts regulation with regulation id = *R0800000*, regulation role type = *8*, start date = *2008-01-01*:

    o fts regulation action 1: regulation id = *R0500000*, regulation role type = *1*.

  approved flag = *1*.

Transaction 2:

- Message 1: Update the stable fts regulation with regulation id = *R0800000*, regulation role type = *8*, end date = *2009-06-01*:

    o fts regulation action 1: regulation id = *R0700000*, regulation role type = *1*.

  approved flag = *1*.

Transaction 3:

- Message 1: Insert a stable fts regulation with regulation id = *R0900000*, regulation role type = *8*, start date = *2009-07-01*:

  o fts regulation action 1: regulation id = *R0700000*, regulation role type = *1*.

approved flag = *1*.

Transaction 4:

- Message 1: Update the stable fts regulation with regulation id = *R0900000*, regulation role type = *8*, start date = *2010-01-01*:

  o fts regulation action 1: regulation id = *R0700000*, regulation role type = *1*.

approved flag = *1*.

__Expected output:__ The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 2:

- Message 1, on start.date : VR-VI-7: When the publication status of data is set to "stable", all information tagged as mandatory in the data elements has to be provided.

Reply to transaction 3:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 4:

- Message 1, on fts.regulation.ref : OK.

2.1.18. Test case dm_fts_unstable_insert_01: data foreign key stability dependencies

__Message:__ **dm_fts_insert_setup_04.xml**

__Precondition:__ Make sure the *dm_fts_setup.xml* message has been successfully processed.

__Content:__ The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable legal regulation with regulation id = *R0100000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 2:

- Message 1: Insert an unstable base regulation with regulation id = *R0100000*, regulation role type = *1*, start

date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Transaction 3:

- Message 1: Insert a stable legal regulation with regulation id = *R0200000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 4:

- Message 1: Insert a stable base regulation with regulation id = *R0200000*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Transaction 5:

- Message 1: Insert a stable legal regulation with regulation id = *R0300000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 6:

- Message 1: Insert an unstable base regulation with regulation id = *R0300000*, regulation role type = *1*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Transaction 7:

- Message 1: Insert a stable legal regulation with regulation id = *R0400000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 8:

- Message 1: Insert an unstable base regulation with regulation id = *R0400000*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Transaction 9:

- Message 1: Insert a stable legal regulation with regulation id = *R0500000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 10:

- Message 1: Insert an unstable base regulation with regulation id = *R0500000*, regulation role type = *1*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Transaction 11:

- Message 1: Insert a stable legal regulation with

regulation id = *R0600000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 12:

- Message 1: Insert an unstable base regulation with regulation id = *R0600000*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Expected output: The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 2:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 3:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 4:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 5:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 6:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 7:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 8:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 9:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 10:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 11:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 12:

- Message 1, on base.regulation.ref : OK.

Message: **dm_fts_unstable_insert_01.xml**

Precondition: Make sure the message dm_fts_insert_setup_04.xml has been

correctly processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert an unstable fts regulation with regulation id = *R0200000*, regulation role type = *8*, start date = *2008-01-01*:

  o fts regulation action 1: regulation id = *R0100000*, regulation role type = *1*.

  approved flag = *1*.

Transaction 2:

- Message 1: Insert an unstable fts regulation with regulation id = *R0400000*, regulation role type = *8*, start date = *2008-01-01*:

  o fts regulation action 1: regulation id = *R0300000*, regulation role type = *1*.

  approved flag = *1*.

Transaction 3:

- Message 1: Insert an unstable fts regulation with regulation id = *R0600000*, regulation role type = *8*, start date = *2009-01-01*:

  o fts regulation action 1: regulation id = *R0500011*, regulation role type = *1*.

  approved flag = *1*.

Expected output: The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 2:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 3:

- Message 1, on fts.regulation.ref : VR-FTSACT-1: The stopped regulation must refer to an existing regulation.

2.1.19. Test case dm_fts_unstable_update_02: data foreign key stability dependencies

Message: **dm_fts_unstable_update_02.xml**

Precondition: Make sure the message dm_fts_insert_setup_04.xml and dm_fts_unstable_insert_01 have been correctly processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the unstable fts regulation with regulation id = *R0200000*, regulation role type = *8*, end date = *2010-01-01*:

    o fts regulation action 1: regulation id = *R0100000*, regulation role type = *1*.

  approved flag = *1*.

Transaction 2:

- Message 1: Update the unstable fts regulation with regulation id = *R0400000*, regulation role type = *8*, start date = *2010-01-01*:

    o fts regulation action 1: regulation id = *R0300000*, regulation role type = *7*.

  approved flag = *1*.

Expected output: The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 2:

- Message 1, on regulation.role.type : VR-FTSACT-8: The stopped regulation must refer to a measure-generating regulation.

- Message 1, on fts.regulation.ref : VR-FTSACT-1: The stopped regulation must refer to an existing regulation.

2.1.20. Test case dm_fts_unstable_update_03: Stability dependencies of publication status

Message: **dm_fts_insert_setup_03.xml**

Precondition: Make sure the *dm_fts_setup.xml* message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable legal regulation with regulation id = *R0100000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 2:

- Message 1: Insert a stable base regulation with regulation id = *R0100000*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Transaction 3:

- Message 1: Insert a stable legal regulation with regulation id = *R0200000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 4:

- Message 1: Insert a stable base regulation with regulation id = *R0200000*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Transaction 5:

- Message 1: Insert a stable legal regulation with regulation id = *R0300000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 6:

- Message 1: Insert a stable base regulation with regulation id = *R0300000*, regulation role type = *1*, start date = *2009-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Transaction 7:

- Message 1: Insert a stable legal regulation with regulation id = *R0400000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 8:

- Message 1: Insert a stable base regulation with regulation id = *R0400000*, regulation role type = *1*, start date = *2009-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Transaction 9:

- Message 1: Insert a stable legal regulation with regulation id = *R0500000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 10:

- Message 1: Insert a stable base regulation with regulation id = *R0500000*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Transaction 11:

- Message 1: Insert a stable legal regulation with regulation id = *R0600000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 12:

- Message 1: Insert a stable base regulation with regulation id = *R0600000*, regulation role type = *1*, start date = *2009-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Transaction 13:

- Message 1: Insert a stable legal regulation with regulation id = *R0700000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 14:

- Message 1: Insert a stable base regulation with regulation id = *R0700000*, regulation role type = *1*, start date = *2009-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Transaction 15:

- Message 1: Insert a stable legal regulation with regulation id = *R0800000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 16:

- Message 1: Insert a stable base regulation with regulation id = *R0800000*, regulation role type = *1*, start date = *2009-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Transaction 17:

- Message 1: Insert a stable legal regulation with regulation id = *R0900000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 18:

- Message 1: Insert a stable base regulation with regulation id = *R0900000*, regulation role type = *1*, start date = *2009-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Expected output: The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 2:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 3:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 4:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 5:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 6:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 7:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 8:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 9:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 10:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 11:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 12:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 13:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 14:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 15:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 16:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 17:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 18:

- Message 1, on base.regulation.ref : OK.

Message: **dm_fts_unstable_update_03.xml**

Precondition: Make sure the message dm_fts_insert_setup_05.xml has been correctly processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the unstable fts regulation with regulation id = *R0200000*, regulation role type = *8*, end date = *2009-07-01*:

    o fts regulation action 1: regulation id = *R0100000*, regulation role type = *1*.

    approved flag = *1*.

Transaction 2:

- Message 1: Update the unstable fts regulation with regulation id = *R0400000*, regulation role type = *8*, start date = *2009-07-01*, end date = *2009-08-01*:

    o fts regulation action 1: regulation id = *R0300000*, regulation role type = *1*.

    approved flag = *1*.

Transaction 3:

- Message 1: Update the unstable fts regulation with regulation id = *R0400000*, regulation role type = *8*, start date = *2009-09-01*:

    o fts regulation action 1: regulation id = *R0300000*, regulation role type = *1*.

    approved flag = *1*.

Expected output: The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on stability.flag : VR-VI-11: The publication status of data can only be unstable if the information is new in the system or the previous version of the information also has publication status unstable.

Reply to transaction 2:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 3:

- Message 1, on fts.regulation.ref : OK.

2.1.21. Test case dm_fts_unstable_insert_02: Stopped flag value

Message: **dm_fts_insert_setup_06.xml**

Precondition: Make sure the *dm_fts_setup.xml* message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable legal regulation with regulation id = *R0100000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 2:

- Message 1: Insert a stable base regulation with regulation id = *R0100000*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Transaction 3:

- Message 1: Insert a stable legal regulation with regulation id = *R0200000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 4:

- Message 1: Insert a stable base regulation with regulation id = *R0200000*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Transaction 5:

- Message 1: Insert a stable legal regulation with regulation id = *R0300000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 6:

- Message 1: Insert a stable base regulation with regulation id = *R0300000*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Transaction 7:

- Message 1: Insert a stable legal regulation with regulation id = *R0400000*, published date = *2008-01-01*,

official journal number = *1*, official journal page = *1*.

Transaction 8:

- Message 1: Insert a stable base regulation with regulation id = *R0400000*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Transaction 9:

- Message 1: Insert a stable legal regulation with regulation id = *R0500000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 10:

- Message 1: Insert a stable base regulation with regulation id = *R0500000*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Transaction 11:

- Message 1: Insert a stable legal regulation with regulation id = *R0600000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 12:

- Message 1: Insert a stable base regulation with regulation id = *R0600000*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Transaction 13:

- Message 1: Insert a stable legal regulation with regulation id = *R0700000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 14:

- Message 1: Insert a stable base regulation with regulation id = *R0700000*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Transaction 15:

- Message 1: Insert a stable legal regulation with regulation id = *R0800000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 16:

- Message 1: Insert a stable base regulation with regulation id = *R0800000*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id =

GGA, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Expected output: The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 2:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 3:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 4:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 5:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 6:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 7:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 8:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 9:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 10:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 11:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 12:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 13:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 14:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 15:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 16:

- Message 1, on base.regulation.ref : OK.

Message: **dm_fts_unstable_insert_02.xml**

Precondition: Make sure the message dm_fts_insert_setup_06.xml has been
                    correctly processed by the system.

Content: The message is composed of the following transactions:

                    Transaction 1:

- Message 1: Insert an unstable fts regulation with
  regulation id = *R0200000*, regulation role type = *8*, start
  date = *2009-07-01*:

    o   fts regulation action 1: regulation id = *R0100000*,
        regulation role type = *1*.

  approved flag = *1*.

                    Transaction 2:

- Message 1: Request the base regulation with query space
  field = *BASE REGULATION.BASE REGULATION
  REF.LEGAL REGULATION REF.Regulation id*, operator
  = =, constant = *R0100000*.

Expected output: The message is composed of transactions replying to the original
                    transactions:

                    Reply to transaction 1:

- Message 1, on fts.regulation.ref : OK.

                    Reply to transaction 2:

- Message 1 : OK.

2.1.22. Test case dm_fts_stable_insert_05: Stopped flag value

Message: **dm_fts_stable_insert_05.xml**

Precondition: Make sure the message dm_fts_insert_setup_06.xml has been
                    correctly processed by the system.

Content: The message is composed of the following transactions:

                    Transaction 1:

- Message 1: Insert a stable fts regulation with regulation
  id = *R0600000*, regulation role type = *8*, start date =
  2009-07-01:

    o   fts regulation action 1: regulation id = *R0500000*,
        regulation role type = *1*.

  approved flag = *1*.

Transaction 2:

- Message 1: Request the base regulation with query space field = *BASE REGULATION.BASE REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = =, constant = *R0500000*.

Expected output: The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 2:

- Message 1 : OK.

2.1.23. Test case dm_fts_all_delete_03: Stopped flag after deleting an fts regulation

Message: **dm_fts_insert_setup_07.xml**

Precondition: Make sure the *dm_fts_setup.xml* message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable legal regulation with regulation id = *R0100000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 2:

- Message 1: Insert a stable base regulation with regulation id = *R0100000*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Transaction 3:

- Message 1: Insert a stable legal regulation with regulation id = *R0200000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 4:

- Message 1: Insert a stable base regulation with regulation id = *R0200000*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Transaction 5:

- Message 1: Insert a stable fts regulation with regulation id = *R0200000*, regulation role type = *8*, start date = *2009-07-01*:

  o fts regulation action 1: regulation id = *R0100000*, regulation role type = *1*.

  approved flag = *1*.

Transaction 6:

- Message 1: Insert a stable legal regulation with regulation id = *R0300000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 7:

- Message 1: Insert a stable base regulation with regulation id = *R0300000*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Transaction 8:

- Message 1: Insert a stable fts regulation with regulation id = *R0300000*, regulation role type = *8*, start date = *2009-07-01*, approved flag = *1*.

Expected output:	The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 2:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 3:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 4:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 5:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 6:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 7:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 8:

- Message 1, on fts.regulation.ref : OK.

Message: **dm_fts_all_delete_03.xml**

Precondition: Make sure the message dm_fts_insert_setup_07.xml has been correctly processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Delete the fts regulation with regulation id = *R0200000*, regulation role type = *8*.

Transaction 2:
- Message 1: Delete the fts regulation with regulation id = *R0300000*, regulation role type = *8*.

Expected output: The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on fts.regulation.ref : VR-FTS-4: An FTS regulation cannot be deleted if it stops at least one regulation, if it has been abrogated or if it has been replaced.

Reply to transaction 2:
- Message 1, on regulation.id : OK.

2.1.24. Test case dm_fts_unstable_insert_03: Effective end date assignment

Message: **dm_fts_insert_setup_07_bis.xml**

Precondition: Make sure the *dm_fts_setup.xml* message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable legal regulation with regulation id = *R0100000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 2:
- Message 1: Insert a stable base regulation with regulation id = *R0100000*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Transaction 3:

- Message 1: Insert a stable legal regulation with regulation id = *R0200000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 4:

- Message 1: Insert a stable base regulation with regulation id = *R0200000*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Transaction 5:

- Message 1: Insert a stable legal regulation with regulation id = *R0300000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 6:

- Message 1: Insert a stable base regulation with regulation id = *R0300000*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Transaction 7:

- Message 1: Insert a stable legal regulation with regulation id = *R0400000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 8:

- Message 1: Insert a stable base regulation with regulation id = *R0400000*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Transaction 9:

- Message 1: Insert a stable legal regulation with regulation id = *R0500000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 10:

- Message 1: Insert a stable base regulation with regulation id = *R0500000*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Transaction 11:

- Message 1: Insert a stable legal regulation with regulation id = *R0600000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 12:

- Message 1: Insert a stable base regulation with regulation id = *R0600000*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, replacement indicator = *0*, stopped flag = *0*, approved flag = *1*.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 2:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 3:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 4:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 5:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 6:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 7:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 8:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 9:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 10:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 11:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 12:

- Message 1, on base.regulation.ref : OK.

Message: **dm_fts_unstable_insert_03.xml**

Precondition: Make sure the message *dm_fts_insert_setup_07_bis.xml* has been correctly processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert an unstable fts regulation with regulation id = *R0200000*, regulation role type = *8*, start date = *2009-07-01*, end date = *2009-12-31*:

  o fts regulation action 1: regulation id = *R0100000*, regulation role type = *1*.

  approved flag = *1*.

Transaction 2:

- Message 1: Request the fts regulation with query space field = *FTS REGULATION.FTS REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = =, constant = *R0200000*.

Transaction 3:

- Message 1: Insert an unstable fts regulation with regulation id = *R0400000*, regulation role type = *8*, start date = *2009-07-01*:

  o fts regulation action 1: regulation id = *R0300000*, regulation role type = *1*.

  approved flag = *1*.

Transaction 4:

- Message 1: Request the fts regulation with query space field = *FTS REGULATION.FTS REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = =, constant = *R0400000*.

Expected output: The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 4:

- Message 1 : OK.

2.2. Explicit abrogation regulation

2.2.1. Test case init_ref_explicit_abrogation_regulation_setup_01: Insertion of Explicit abrogation regulation reference data

**Message:** **init_ref_explicit_abrogation_regulation_setup_01.xml**

**Precondition:** Make sure the database is empty.

**Content:** The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable language with language id = _EN_, start date = _2000-01-01_:

- Message 2: Insert a stable language with language id = _FR_, start date = _2000-01-01_:

  - description 1: language id = _EN_, description = _English Description of fr_.

- Message 3: Insert a stable language with language id = _NL_, start date = _2000-01-01_:

  - description 1: language id = _EN_, description = _English Description of nl_.

  - description 2: language id = _FR_, description = _Description francaise nl_.

Transaction 2:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = _0100000000_, productline suffix = _80_, start date = _2008-01-01_, goods nomenclature sid = _1_:

  - description period 1: start date = _2008-01-01_:

    - description 1: language id = _EN_, description = _English Description_.

    - description 2: language id = _FR_, description = _French Description_.

    - description 3: language id = _NL_, description = _Dutch Description_.

  - indent 1: indent sid = _1_, start date = _2008-01-01_, indent number = _01_.

  statistical indicator = _0_.

Transaction 3:

- Message 1: Insert a stable measure type series with measure type series id = *AA*, start date = *2008-01-01*:

  o description 1: language id = *EN*, description = *English Description*.

  o description 2: language id = *FR*, description = *French Description*.

  o description 3: language id = *NL*, description = *Dutch Description*.

  measure type combination = *0*.

- Message 2: Insert a stable regulation group with regulation group id = *GGA*, start date = *2007-01-01*:

  o description 1: language id = *EN*, description = *English Description of country group*.

  o description 2: language id = *FR*, description = *French Description of country group*.

  o description 3: language id = *NL*, description = *Dutch Description of country group*.

- Message 3: Insert a stable measure type with measure type id = *001*, start date = *2008-01-01*:

  o description 1: language id = *EN*, description = *English Description*.

  o description 2: language id = *FR*, description = *French Description*.

  o description 3: language id = *NL*, description = *Dutch Description*.

  measure type series id = *AA*:

  o associated regulation group 1: regulation group id = *GGA*, start date = *2008-01-01*.

  trade movement code = *0*, measure explosion level = *6*, measure component applicable code = *2*, order number capture code = *2*, accepted via input bridge = *0*.

Transaction 4:

- Message 1: Insert a stable regulation role type with regulation role type id = *1*, start date = *2006-02-01*:

  o description 1: language id = *EN*, description = *English Description*.

  o description 2: language id = *FR*, description = *French Description*.

- o description 3: language id = *NL*, description = *Dutch Description*.

- Message 2: Insert a stable regulation role type with regulation role type id = *2*, start date = *2006-02-01*:

  - o description 1: language id = *EN*, description = *English Description*.

  - o description 2: language id = *FR*, description = *French Description*.

  - o description 3: language id = *NL*, description = *Dutch Description*.

- Message 3: Insert a stable regulation role type with regulation role type id = *3*, start date = *2006-02-01*:

  - o description 1: language id = *EN*, description = *English Description*.

  - o description 2: language id = *FR*, description = *French Description*.

  - o description 3: language id = *NL*, description = *Dutch Description*.

- Message 4: Insert a stable regulation role type with regulation role type id = *4*, start date = *2006-02-01*:

  - o description 1: language id = *EN*, description = *English Description*.

  - o description 2: language id = *FR*, description = *French Description*.

  - o description 3: language id = *NL*, description = *Dutch Description*.

- Message 5: Insert a stable regulation role type with regulation role type id = *5*, start date = *2006-02-01*:

  - o description 1: language id = *EN*, description = *English Description*.

  - o description 2: language id = *FR*, description = *French Description*.

  - o description 3: language id = *NL*, description = *Dutch Description*.

- Message 6: Insert a stable regulation role type with regulation role type id = *6*, start date = *2006-02-01*:

  - o description 1: language id = *EN*, description =

English Description.

- o   description 2: language id = *FR*, description =
  French Description.

- o   description 3: language id = *NL*, description =
  Dutch Description.

- Message 7: Insert a stable regulation role type with
  regulation role type id = *7*, start date = *2006-02-01*:

  - o   description 1: language id = *EN*, description =
    English Description.

  - o   description 2: language id = *FR*, description =
    French Description.

  - o   description 3: language id = *NL*, description =
    Dutch Description.

- Message 8: Insert a stable regulation role type with
  regulation role type id = *8*, start date = *2006-02-01*:

  - o   description 1: language id = *EN*, description =
    English Description.

  - o   description 2: language id = *FR*, description =
    French Description.

  - o   description 3: language id = *NL*, description =
    Dutch Description.

Transaction 5:

- Message 1: Insert a stable legal regulation with
  regulation id = *R0801001*, published date = *2008-01-01*,
  official journal number = *1*, official journal page = *1*.

- Message 2: Insert a stable legal regulation with
  regulation id = *R0801002*, published date = *2008-01-01*,
  official journal number = *1*, official journal page = *1*.

- Message 3: Insert a stable legal regulation with
  regulation id = *R0801003*, published date = *2008-01-01*,
  official journal number = *1*, official journal page = *1*.

- Message 4: Insert a stable legal regulation with
  regulation id = *C0801002*, published date = *2008-01-01*,
  official journal number = *1*, official journal page = *1*.

- Message 5: Insert a stable legal regulation with
  regulation id = *R0801004*, published date = *2008-01-01*,
  official journal number = *1*, official journal page = *1*.

- Message 6: Insert a stable legal regulation with
  regulation id = *R0801005*, published date = *2008-01-01*,

official journal number = *1*, official journal page = *1*.

- Message 7: Insert a stable legal regulation with regulation id = *R0801006*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 8: Insert a stable legal regulation with regulation id = *R0801007*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 9: Insert a stable legal regulation with regulation id = *R0801008*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 10: Insert a stable legal regulation with regulation id = *R0801009*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 11: Insert a stable legal regulation with regulation id = *R0801010*, published date = *2007-01-01*, official journal number = *1*, official journal page = *1*.

- Message 12: Insert a stable legal regulation with regulation id = *R0801011*, published date = *2007-01-01*, official journal number = *1*, official journal page = *1*.

- Message 13: Insert a stable legal regulation with regulation id = *R0801012*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 14: Insert a stable legal regulation with regulation id = *R0800121*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 15: Insert a stable legal regulation with regulation id = *R0800122*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 16: Insert a stable legal regulation with regulation id = *R0800123*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 17: Insert a stable legal regulation with regulation id = *R0800124*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 18: Insert a stable legal regulation with regulation id = *R0800125*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 19: Insert a stable legal regulation with regulation id = *R0800126*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 20: Insert a stable legal regulation with

regulation id = *R0800127*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 21: Insert a stable legal regulation with regulation id = *R0800128*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 22: Insert a stable legal regulation with regulation id = *R0800129*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 23: Insert a stable legal regulation with regulation id = *R0800130*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 24: Insert a stable legal regulation with regulation id = *R0800013*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 25: Insert a stable legal regulation with regulation id = *R0802001*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 26: Insert a stable legal regulation with regulation id = *R0801013*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 27: Insert a stable legal regulation with regulation id = *R0801014*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 28: Insert a stable legal regulation with regulation id = *R0801015*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 29: Insert a stable legal regulation with regulation id = *R0801016*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 30: Insert a stable legal regulation with regulation id = *R0801017*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 31: Insert a stable legal regulation with regulation id = *R0801018*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 32: Insert a stable legal regulation with regulation id = *R0801019*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 33: Insert a stable legal regulation with regulation id = *R0801020*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 34: Insert an unstable legal regulation with regulation id = *R0820000*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 35: Insert a stable legal regulation with regulation id = *R0100010*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 36: Insert a stable legal regulation with regulation id = *R0100040*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 37: Insert a stable legal regulation with regulation id = *C0100010*.

- Message 38: Insert a stable legal regulation with regulation id = *R0100020*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 39: Insert a stable legal regulation with regulation id = *R0100030*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 40: Insert a stable legal regulation with regulation id = *R0803001*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 41: Insert a stable legal regulation with regulation id = *R0803002*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 42: Insert a stable legal regulation with regulation id = *R0800131*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 43: Insert a stable legal regulation with regulation id = *R0100050*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 44: Insert a stable legal regulation with regulation id = *R0100001*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 45: Insert a stable legal regulation with regulation id = *R0801021*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 6:

- Message 2: Insert a stable base regulation with regulation id = *R0100010*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

- Message 3: Insert an unstable base regulation with

regulation id = *R0100040*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

- Message 4: Insert a stable base regulation with regulation id = *C0100010*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

- Message 5: Insert a stable base regulation with regulation id = *R0801011*, regulation role type = *3*, start date = *2008-01-01*, end date = *2008-12-31*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

- Message 6: Insert a stable base regulation with regulation id = *R0801001*, regulation role type = *1*, start date = *2009-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

- Message 7: Insert a stable base regulation with regulation id = *R0801002*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

- Message 8: Insert a stable base regulation with regulation id = *R0801003*, regulation role type = *1*, start date = *2009-01-01*, end date = *2010-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

- Message 9: Insert a stable base regulation with regulation id = *R0801004*, regulation role type = *1*, start date = *2009-01-01*, end date = *2010-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

- Message 10: Insert a stable base regulation with regulation id = *R0801005*, regulation role type = *1*, start date = *2009-01-01*, end date = *2010-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

- Message 11: Insert a stable base regulation with regulation id = *R0801006*, regulation role type = *1*, start date = *2009-01-01*, end date = *2010-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

- Message 12: Insert a stable base regulation with regulation id = *R0801007*, regulation role type = *1*, start date = *2009-01-01*, end date = *2011-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

- Message 13: Insert a stable base regulation with regulation id = *R0801008*, regulation role type = *1*, start date = *2009-01-01*, end date = *2010-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

- Message 14: Insert a stable base regulation with regulation id = *R0801020*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

- Message 15: Insert a stable base regulation with regulation id = *R0100001*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 7:

- Message 1: Insert a stable modification regulation with regulation id = *R0100030*, regulation role type = *4*, start date = *2009-01-01*, end date = *2010-01-01*, regulation id = *R0801008*, regulation role type = *1*, approved flag = *1*.

Transaction 8:

- Message 1: Insert a stable prorogation regulation with regulation id = *R0100050*, regulation role type = *5*, approved flag = *1*.

Transaction 9:

- Message 1: Insert a stable fts regulation with regulation id = *R0100020*, regulation role type = *8*, start date = *2008-01-01*, approved flag = *1*.

Transaction 10:

- Message 1: Insert a stable country with country id = *BE*, start date = *1900-01-01*, area code = *0*:

  o description period 1: start date = *1900-01-01*:

    - description 1: language id = *EN*, description = *English Description of country group*.

    - description 2: language id = *FR*, description = *French Description of country group*.

    - description 3: language id = *NL*, description = *Dutch Description of country group*.

Expected output: The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on language.ref : OK.

- Message 2, on language.ref : OK.

- Message 3, on language.ref : OK.

Reply to transaction 2:

- Message 1, on goods.nomenclature.ref : OK.

Reply to transaction 3:

- Message 1, on measure.type.series.ref : OK.

- Message 2, on regulation.group.ref : OK.

- Message 3, on measure.type.ref : OK.

Reply to transaction 4:

- Message 1, on regulation.role.type.ref : OK.

- Message 2, on regulation.role.type.ref : OK.

- Message 3, on regulation.role.type.ref : OK.

- Message 4, on regulation.role.type.ref : OK.

- Message 5, on regulation.role.type.ref : OK.

- Message 6, on regulation.role.type.ref : OK.

- Message 7, on regulation.role.type.ref : OK.

- Message 8, on regulation.role.type.ref : OK.

Reply to transaction 5:

- Message 1, on legal.regulation.ref : OK.

- Message 2, on legal.regulation.ref : OK.

- Message 3, on legal.regulation.ref : OK.

- Message 4, on legal.regulation.ref : OK.

- Message 5, on legal.regulation.ref : OK.

- Message 6, on legal.regulation.ref : OK.

- Message 7, on legal.regulation.ref : OK.

- Message 8, on legal.regulation.ref : OK.

- Message 9, on legal.regulation.ref : OK.

- Message 10, on legal.regulation.ref : OK.

- Message 11, on legal.regulation.ref : OK.

- Message 12, on legal.regulation.ref : OK.

- Message 13, on legal.regulation.ref : OK.

- Message 14, on legal.regulation.ref : OK.

- Message 15, on legal.regulation.ref : OK.

- Message 16, on legal.regulation.ref : OK.

- Message 17, on legal.regulation.ref : OK.

- Message 18, on legal.regulation.ref : OK.

- Message 19, on legal.regulation.ref : OK.

- Message 20, on legal.regulation.ref : OK.

- Message 21, on legal.regulation.ref : OK.

- Message 22, on legal.regulation.ref : OK.

- Message 23, on legal.regulation.ref : OK.

- Message 24, on legal.regulation.ref : OK.

- Message 25, on legal.regulation.ref : OK.

- Message 26, on legal.regulation.ref : OK.

- Message 27, on legal.regulation.ref : OK.

- Message 28, on legal.regulation.ref : OK.

- Message 29, on legal.regulation.ref : OK.

- Message 30, on legal.regulation.ref : OK.

- Message 31, on legal.regulation.ref : OK.

- Message 32, on legal.regulation.ref : OK.

- Message 33, on legal.regulation.ref : OK.

- Message 34, on legal.regulation.ref : OK.

- Message 35, on legal.regulation.ref : OK.

- Message 36, on legal.regulation.ref : OK.

- Message 37, on legal.regulation.ref : OK.

- Message 38, on legal.regulation.ref : OK.

- Message 39, on legal.regulation.ref : OK.

- Message 40, on legal.regulation.ref : OK.

- Message 41, on legal.regulation.ref : OK.

- Message 42, on legal.regulation.ref : OK.

- Message 43, on legal.regulation.ref : OK.

- Message 44, on legal.regulation.ref : OK.

- Message 45, on legal.regulation.ref : OK.

Reply to transaction 6:

- Message 2, on base.regulation.ref : OK.

- Message 3, on base.regulation.ref : OK.

- Message 4, on base.regulation.ref : OK.

- Message 5, on base.regulation.ref : OK.

- Message 6, on base.regulation.ref : OK.

- Message 7, on base.regulation.ref : OK.

- Message 8, on base.regulation.ref : OK.

- Message 9, on base.regulation.ref : OK.

- Message 10, on base.regulation.ref : OK.

- Message 11, on base.regulation.ref : OK.

- Message 12, on base.regulation.ref : OK.

- Message 13, on base.regulation.ref : OK.

- Message 14, on base.regulation.ref : OK.

- Message 15, on base.regulation.ref : OK.

Reply to transaction 7:

- Message 1, on modification.regulation.ref : OK.

Reply to transaction 8:

- Message 1, on prorogation.regulation.ref : OK.

Reply to transaction 9:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 10:

- Message 1, on country.ref : OK.

2.2.2. Test case dm_ear_stable_insert: Insert a stable explicit abrogation regulation

Message: **dm_ear_stable_insert_01.xml**

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, message *init_ref_explicit_abrogation_regulation_setup_01.xml* should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable explicit abrogation regulation with regulation id = *R0801000*, regulation role type = *7*:

    regulation id = *R0100001*, regulation role type = *1*.

    abrogation date = *2009-01-01*, approved flag = *1*.

Transaction 2:

- Message 1: Insert a stable explicit abrogation regulation with regulation id = *AR0801001*, regulation role type = *7*, abrogation date = *01-01-2009*, approved flag = *1*.

Transaction 3:

- Message 1: Insert a stable explicit abrogation regulation with regulation id = *R0801001*, regulation role type = *7*:

    regulation id = *R0100010*, regulation role type = *1*, regulation id = *R0100020*, regulation role type = *8*, regulation id = *R0100030*, regulation role type = *4*.

    abrogation date = *2009-01-01*, approved flag = *1*.

Transaction 4:

- Message 1: Request the explicit abrogation regulation with query space field = *EXPLICIT ABROGATION REGULATION.ABROGATION REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = =, constant = *R0801001*.

Transaction 5:

- Message 1: Insert a stable explicit abrogation regulation with regulation id = *R0801002*, regulation role type = *7*, abrogation date = *2009-01-01*, approved flag = *1*.

Transaction 6:

- Message 1: Insert a stable explicit abrogation regulation with regulation id = *R0801001*, regulation role type = *7*, abrogation date = *2009-01-01*, approved flag = *1*.

Transaction 7:

- Message 1: Insert a stable explicit abrogation regulation with regulation id = *R0801002*, regulation role type = *7*, abrogation date = *2009-01-01*, approved flag = *0*.

Transaction 8:

- Message 1: Insert a stable explicit abrogation regulation with regulation id = *C0801002*, regulation role type = *7*, abrogation date = *2009-01-01*, approved flag = *0*.

Transaction 9:

- Message 1: Insert an unstable explicit abrogation regulation with regulation id = *R0801002*, regulation role type = *7*, abrogation date = *2009-01-01*, approved flag = *1*.

Transaction 10:

- Message 1: Insert a stable explicit abrogation regulation with regulation id = *R0801002*, regulation role type = *7*:

    regulation id = *R0100040*, regulation role type = *1*.

  abrogation date = *2009-01-01*, approved flag = *1*.

Transaction 11:

- Message 1: Insert a stable explicit abrogation regulation with regulation id = *R0801002*, regulation role type = *7*:

    regulation id = *R0100050*, regulation role type = *5*.

  abrogation date = *2009-01-01*, approved flag = *1*.

Transaction 12:

- Message 1: Insert a stable explicit abrogation regulation with regulation id = *R0801002*, regulation role type = *7*:

    regulation id = *C0100010*, regulation role type = *1*.

  abrogation date = *2009-01-01*, approved flag = *1*.

Transaction 13:

- Message 1: Insert a stable explicit abrogation regulation with regulation id = *R0801002*, regulation role type = *7*:

    regulation id = *R0100040*, regulation role type = *1*.

  abrogation date = *2009-01-01*, approved flag = *1*.

Transaction 14:

- Message 1: Insert a stable base regulation with regulation id = *R0801002*, regulation role type = *1*, start date = *2009-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 15:

- Message 1: Insert a stable explicit abrogation regulation with regulation id = *R0801003*, regulation role type = *7*:

    regulation id = *R0801002*, regulation role type = *1*.

abrogation date = *2009-01-01*, approved flag = *1*.

Transaction 16:

- Message 1: Insert a stable explicit abrogation regulation with regulation id = *R0801004*, regulation role type = *7*:

    regulation id = *R0801002*, regulation role type = *1*.

    abrogation date = *2008-12-31*, approved flag = *1*.

Transaction 17:

- Message 1: Insert a stable base regulation with regulation id = *R0801004*, regulation role type = *1*, start date = *2009-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 18:

- Message 1: Insert a stable explicit abrogation regulation with regulation id = *R0801005*, regulation role type = *7*:

    regulation id = *R0801004*, regulation role type = *1*.

    abrogation date = *2009-01-01*, approved flag = *1*.

Transaction 19:

- Message 1: Insert a stable explicit abrogation regulation with regulation id = *R0801006*, regulation role type = *7*:

    regulation id = *R0801004*, regulation role type = *1*.

    abrogation date = *2009-01-01*, approved flag = *1*.

Transaction 20:

- Message 1: Insert a stable base regulation with regulation id = *R0801006*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 21:

- Message 1: Insert a stable modification regulation with regulation id = *R0801007*, regulation role type = *4*, start date = *2009-01-01*, regulation id = *R0801006*, regulation role type = *1*, approved flag = *1*.

Transaction 22:

- Message 1: Insert a stable complete abrogation regulation with regulation id = *R0801008*, regulation role type = *6*:

    regulation id = *R0801006*, regulation role type = *1*.

replacement indicator = *0*, approved flag = *1*.

Transaction 23:

- Message 1: Insert a stable explicit abrogation regulation with regulation id = *R0801009*, regulation role type = *7*:

  > regulation id = *R0801007*, regulation role type = *4*.

  abrogation date = *2009-01-01*, approved flag = *1*.

Transaction 24:

- Message 1: Insert a stable base regulation with regulation id = *R0801010*, regulation role type = *2*, start date = *2007-01-01*, end date = *2007-12-31*, regulation id = *R0801011*, regulation role type = *3*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 25:

- Message 1: Insert a stable explicit abrogation regulation with regulation id = *R0801012*, regulation role type = *7*:

  > regulation id = *R0801010*, regulation role type = *2*.

  abrogation date = *2007-05-06*, approved flag = *1*.

Transaction 26:

- Message 1: Insert a stable complete abrogation regulation with regulation id = *R0800121*, regulation role type = *6*:

  > regulation id = *R0801011*, regulation role type = *3*.

  replacement indicator = *1*, approved flag = *1*.

Transaction 27:

- Message 1: Insert a stable explicit abrogation regulation with regulation id = *R0800122*, regulation role type = *7*:

  > regulation id = *R0801010*, regulation role type = *2*.

  abrogation date = *2007-05-06*, approved flag = *1*.

Transaction 28:

- Message 1: Insert a stable fts regulation with regulation id = *R0801012*, regulation role type = *8*, start date = *2008-01-01*, end date = *2008-12-31*, approved flag = *1*.

Transaction 29:

- Message 1: Insert a stable explicit abrogation regulation with regulation id = *R0800123*, regulation role type = *7*:

> regulation id = *R0801012*, regulation role type = *8*.

abrogation date = *2009-12-31*, approved flag = *1*.

Transaction 30:

- Message 1: Insert a stable explicit abrogation regulation with regulation id = *R0800123*, regulation role type = *7*:

    > regulation id = *R0801012*, regulation role type = *8*.

    abrogation date = *2007-01-01*, approved flag = *1*.

Transaction 31:

- Message 1: Insert a stable modification regulation with regulation id = *R0801013*, regulation role type = *4*, start date = *2008-01-01*, end date = *2008-12-31*, regulation id = *R0801002*, regulation role type = *1*, approved flag = *1*.

Transaction 32:

- Message 1: Insert a stable explicit abrogation regulation with regulation id = *R0800123*, regulation role type = *7*:

    > regulation id = *R0801013*, regulation role type = *4*.

    abrogation date = *2009-01-01*, approved flag = *1*.

Transaction 33:

- Message 1: Insert a stable prorogation regulation with regulation id = *R0800124*, regulation role type = *5*:

    o prorogation regulation action 1: regulation id = *R0801013*, regulation role type = *4*, extended date = *2009-01-01*.

    approved flag = *1*.

Transaction 34:

- Message 1: Insert a stable explicit abrogation regulation with regulation id = *R0800125*, regulation role type = *7*:

    > regulation id = *R0801013*, regulation role type = *4*.

    abrogation date = *2008-02-01*, approved flag = *1*.

Transaction 35:

- Message 1: Insert a stable base regulation with regulation id = *R0801014*, regulation role type = *1*, start date = *2008-01-01*, end date = *2008-12-31*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 36:

- Message 1: Insert a stable explicit abrogation regulation with regulation id = *R0800126*, regulation role type = *7*:

    regulation id = *R0801014*, regulation role type = *1*.

  abrogation date = *2009-01-01*, approved flag = *1*.

Transaction 37:

- Message 1: Insert a stable prorogation regulation with regulation id = *R0800126*, regulation role type = *5*:

    o prorogation regulation action 1: regulation id = *R0801014*, regulation role type = *1*, extended date = *2009-12-31*.

  approved flag = *1*.

Transaction 38:

- Message 1: Insert a stable explicit abrogation regulation with regulation id = *R0800127*, regulation role type = *7*:

    regulation id = *R0801014*, regulation role type = *1*.

  abrogation date = *2009-01-01*, approved flag = *1*.

Transaction 39:

- Message 1: Insert a stable base regulation with regulation id = *R0801015*, regulation role type = *1*, start date = *2008-01-01*, end date = *2008-12-31*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 40:

- Message 1: Insert a stable modification regulation with regulation id = *R0801016*, regulation role type = *4*, start date = *2008-01-01*, end date = *2008-12-31*, regulation id = *R0801002*, regulation role type = *1*, approved flag = *1*.

Transaction 41:

- Message 1: Insert a stable explicit abrogation regulation with regulation id = *R0800128*, regulation role type = *7*:

    regulation id = *R0801015*, regulation role type = *1*.

  abrogation date = *2008-06-01*, approved flag = *1*.

Transaction 42:

- Message 1: Insert a stable explicit abrogation regulation with regulation id = *R0800129*, regulation role type = *7*:

    regulation id = *R0801016*, regulation role type = *4*.

abrogation date = *2009-08-01*, approved flag = *1*.

Transaction 43:

- Message 1: Insert a stable explicit abrogation regulation
  with regulation id = *R0800129*, regulation role type = *7*:

  > regulation id = *R0801016*, regulation role type =
  > *4*.

  abrogation date = *2008-05-31*, approved flag = *1*.

Transaction 44:

- Message 1: Insert a stable base regulation with regulation
  id = *R0801017*, regulation role type = *1*, start date =
  2008-01-01, end date = *2008-12-31*, community code =
  1, regulation group id = *GGA*, approved flag = *1*.

Transaction 45:

- Message 1: Insert a stable modification regulation with
  regulation id = *R0801018*, regulation role type = *4*, start
  date = *2008-01-01*, end date = *2008-12-31*, regulation id
  = *R0801017*, regulation role type = *1*, approved flag = *1*.

Transaction 46:

- Message 1: Insert a stable explicit abrogation regulation
  with regulation id = *R0800130*, regulation role type = *7*:

  > regulation id = *R0801017*, regulation role type =
  > *1*.

  abrogation date = *2008-05-31*, approved flag = *1*.

Transaction 47:

- Message 1: Request the base regulation with query space
  field = *BASE REGULATION.BASE REGULATION
  REF.LEGAL REGULATION REF.Regulation id*, operator
  = =, constant = *R0801017*.

- Message 2: Request the modification regulation with
  query space field = *MODIFICATION
  REGULATION.MODIFICATION REGULATION
  REF.LEGAL REGULATION REF.Regulation id*, operator
  = =, constant = *R0801018*.

Transaction 48:

- Message 1: Insert a stable base regulation with regulation
  id = *R0801019*, regulation role type = *1*, start date =
  2008-01-01, end date = *2008-12-31*, community code =
  1, regulation group id = *GGA*, approved flag = *1*.

Transaction 49:

- Message 1: Insert a stable base regulation with regulation
  id = *R0801021*, regulation role type = *1*, start date =
  2008-01-01, end date = *2008-12-31*, community code =

1, regulation group id = *GGA*, approved flag = *1*.

Transaction 50:

- Message 1: Insert a stable measure with measure type id = *001*, geographical area id = *BE*, goods nomenclature id = *0100000000*, productline suffix = *80*, start date = *2008-01-01*, end date = *2008-11-11*, regulation id = *R0801021*, regulation role type = *1*, regulation id = *R0801019*, regulation role type = *1*.

Transaction 51:

- Message 1: Insert a stable explicit abrogation regulation with regulation id = *R0800131*, regulation role type = *7*:

    regulation id = *R0801019*, regulation role type = *1*.

  abrogation date = *2008-08-01*, approved flag = *1*.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on regulation.id : VR-ROL-2: The referenced legal regulation must exist.

Reply to transaction 2:

- Message 1, on regulation.id : GEN-INVALID-FORMAT-ERROR: Invalid format.

- Message 1, on abrogation.date : GEN-INVALID-FORMAT-ERROR: Invalid format.

Reply to transaction 3:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 4:

- Message 1 : OK.

Reply to transaction 5:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 6:

- Message 1, on abrogation.regulation.ref : VR-ROL-1: The role-regulation reference (combination of regulation ID and regulation role type) must be unique in the universe of the stable and unstable data.

Reply to transaction 7:

- Message 1, on approved.flag : GEN-VALIDATION-ERROR: XML Schema validation error.

Reply to transaction 8:

- Message 1, on approved.flag : GEN-VALIDATION-

ERROR: XML Schema validation error.

Reply to transaction 9:

- Message 1, on stability.flag : GEN-VALIDATION-ERROR: XML Schema validation error.

Reply to transaction 10:

- Message 1, on abrogation.regulation.ref : VR-ROL-1: The role-regulation reference (combination of regulation ID and regulation role type) must be unique in the universe of the stable and unstable data.

- Message 1, on abrogated.regulation.ref : VR-ABRACT-3: Only stable regulations can be abrogated.

Reply to transaction 11:

- Message 1, on regulation.role.type : VR-ABRACT-7: The regulation to be abrogated must refer to a base, modification or FTS regulation.

- Message 1, on abrogation.regulation.ref : VR-ROL-1: The role-regulation reference (combination of regulation ID and regulation role type) must be unique in the universe of the stable and unstable data.

Reply to transaction 12:

- Message 1, on regulation.id : VR-ABRACT-2: The regulation to be abrogated cannot be a draft regulation.

- Message 1, on abrogation.regulation.ref : VR-ROL-1: The role-regulation reference (combination of regulation ID and regulation role type) must be unique in the universe of the stable and unstable data.

Reply to transaction 13:

- Message 1, on abrogation.regulation.ref : VR-ROL-1: The role-regulation reference (combination of regulation ID and regulation role type) must be unique in the universe of the stable and unstable data.

- Message 1, on abrogated.regulation.ref : VR-ABRACT-3: Only stable regulations can be abrogated.

Reply to transaction 14:

- Message 1, on base.regulation.ref : VR-ROL-1: The role-regulation reference (combination of regulation ID and regulation role type) must be unique in the universe of the stable and unstable data.

Reply to transaction 15:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 16:

- Message 1, on abrogated.regulation.ref : VR-ABRACT-

4: A regulation already abrogated cannot be abrogated a second time.

Reply to transaction 17:

- Message 1, on base.regulation.ref : VR-ROL-1: The role-regulation reference (combination of regulation ID and regulation role type) must be unique in the universe of the stable and unstable data.

Reply to transaction 18:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 19:

- Message 1, on abrogated.regulation.ref : VR-ABRACT-4: A regulation already abrogated cannot be abrogated a second time.

- Message 1, on abrogation.date : VR-EARACT-1: A regulation can only be abrogated if the abrogation date is before its effective end date.

Reply to transaction 20:

- Message 1, on base.regulation.ref : VR-ROL-1: The role-regulation reference (combination of regulation ID and regulation role type) must be unique in the universe of the stable and unstable data.

Reply to transaction 21:

- Message 1, on modification.regulation.ref : OK.

Reply to transaction 22:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 23:

- Message 1, on abrogated.regulation.ref : VR-ABRACT-4: A regulation already abrogated cannot be abrogated a second time.

- Message 1, on abrogated.regulation.ref : VR-ABRACT-5: A modification regulation cannot be abrogated if its related base regulation is completely abrogated.

Reply to transaction 24:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 25:

- Message 1, on abrogated.regulation.ref : VR-ABRACT-6: A provisional anti-dumping regulation cannot be abrogated if it is related with a definitive anti-dumping regulation, which is not completely abrogated.

Reply to transaction 26:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 27:

- Message 1, on base.regulation.ref : VR-BAS-7: The validity period of the definitive anti-dumping regulation must be contiguous to the validity period of the provisional anti-dumping regulation.

Reply to transaction 28:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 29:

- Message 1, on abrogation.date : VR-EARACT-1: A regulation can only be abrogated if the abrogation date is before its effective end date.

Reply to transaction 30:

- Message 1, on abrogation.date : VR-EARACT-2: The explicit abrogation date must be later than or equal to the validity start date of the regulation being abrogated.

Reply to transaction 31:

- Message 1, on modification.regulation.ref : OK.

Reply to transaction 32:

- Message 1, on abrogation.date : VR-EARACT-1: A regulation can only be abrogated if the abrogation date is before its effective end date.

Reply to transaction 33:

- Message 1, on prorogation.regulation.ref : OK.

Reply to transaction 34:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 35:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 36:

- Message 1, on abrogation.date : VR-EARACT-1: A regulation can only be abrogated if the abrogation date is before its effective end date.

Reply to transaction 37:

- Message 1, on prorogation.regulation.ref : OK.

Reply to transaction 38:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 39:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 40:

- Message 1, on modification.regulation.ref : OK.

Reply to transaction 41:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 42:

- Message 1, on abrogation.date : VR-EARACT-1: A regulation can only be abrogated if the abrogation date is before its effective end date.

Reply to transaction 43:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 44:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 45:

- Message 1, on modification.regulation.ref : OK.

Reply to transaction 46:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 47:

- Message 1 : OK.

- Message 2 : OK.

Reply to transaction 48:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 49:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 50:

- Message 1, on measure : OK.

Reply to transaction 51:

- Message 1, on abrogation.date : VR-EARACT-5: When a regulation is explicitly abrogated, then there may be no measures which are generated by another regulation and have the abrogated regulation as their justification regulation with an end date greater than the abrogation date.

Message: **dm_ear_stable_insert_02.xml**

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, *init_ref_explicit_abrogation_regulation_setup_01.xml* message should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable explicit abrogation regulation with regulation id = *R0801001*, regulation role type = *7*:

regulation id = *R0100040*, regulation role type = *8*.

abrogation date = *2009-01-01*, approved flag = *1*.

Transaction 2:

- Message 1: Update the stable regulation role type with regulation role type id = *7*, start date = *2008-02-01*:

    o description 1: language id = *EN*, description = *English Description*.

    o description 2: language id = *FR*, description = *French Description*.

    o description 3: language id = *NL*, description = *Dutch Description*.

Transaction 3:

- Message 1: Insert a stable explicit abrogation regulation with regulation id = *R0801003*, regulation role type = *7*:

    regulation id = *R0100040*, regulation role type = *1*.

abrogation date = *2009-01-01*, approved flag = *1*.

Transaction 4:

- Message 1: Insert a stable modification regulation with regulation id = *R0801001*, regulation role type = *4*, start date = *2009-01-01*, regulation id = *R0801001*, regulation role type = *1*, approved flag = *1*.

Transaction 5:

- Message 1: Insert a stable explicit abrogation regulation with regulation id = *R0801001*, regulation role type = *7*:

    regulation id = *R0801001*, regulation role type = *1*.

abrogation date = *2009-12-31*, approved flag = *1*.

Transaction 6:

- Message 1: Request the base regulation with operator = *AND*, query space field = *BASE REGULATION.BASE REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = *=*, constant = *R0801001*, query space field = *BASE REGULATION.BASE REGULATION REF.Regulation role type*, operator = *=*, constant = *1*.

Transaction 7:

- Message 1: Request the modification regulation with operator = *AND*, query space field = *MODIFICATION*

REGULATION.MODIFICATION REGULATION REF.LEGAL REGULATION REF.Regulation id, operator = =, constant = *R0801001*, query space field = *MODIFICATION REGULATION.MODIFICATION REGULATION REF.Regulation role type*, operator = =, constant = *4*.

Transaction 8:

- Message 1: Request the explicit abrogation regulation with operator = *AND*, query space field = *EXPLICIT ABROGATION REGULATION.ABROGATION REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = =, constant = *R0801001*, query space field = *EXPLICIT ABROGATION REGULATION.ABROGATION REGULATION REF.Regulation role type*, operator = =, constant = *7*.

Transaction 9:

- Message 1: Insert a stable modification regulation with regulation id = *R0801002*, regulation role type = *4*, start date = *2009-01-01*, regulation id = *R0801002*, regulation role type = *1*, approved flag = *1*.

Transaction 10:

- Message 1: Insert a stable measure with measure type id = *001*, geographical area id = *BE*, goods nomenclature id = *0100000000*, productline suffix = *80*, start date = *2009-01-01*, end date = *2009-07-01*, regulation id = *R0801002*, regulation role type = *4*, regulation id = *R0801002*, regulation role type = *4*.

Transaction 11:

- Message 1: Insert a stable explicit abrogation regulation with regulation id = *R0801002*, regulation role type = *7*:

    regulation id = *R0801002*, regulation role type = *1*.

  abrogation date = *2009-01-01*, approved flag = *1*.

Transaction 12:

- Message 1: Request the base regulation with operator = *AND*, query space field = *BASE REGULATION.BASE REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = =, constant = *R0801002*, query space field = *BASE REGULATION.BASE REGULATION REF.Regulation role type*, operator = =, constant = *1*.

Transaction 13:

- Message 1: Request the modification regulation with operator = *AND*, query space field = *MODIFICATION REGULATION.MODIFICATION REGULATION*

REF.LEGAL REGULATION REF.Regulation id, operator = =, constant = *R0801002*, query space field = *MODIFICATION REGULATION.MODIFICATION REGULATION REF.Regulation role type*, operator = =, constant = *4*.

Transaction 14:

- Message 1: Request the explicit abrogation regulation with operator = *AND*, query space field = *EXPLICIT ABROGATION REGULATION.ABROGATION REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = =, constant = *R0801002*, query space field = *EXPLICIT ABROGATION REGULATION.ABROGATION REGULATION REF.Regulation role type*, operator = =, constant = *7*.

Expected output: The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on abrogated.regulation.ref : VR-ABRACT-1: The regulation to be abrogated must refer to an existing regulation.

Reply to transaction 2:

- Message 1, on regulation.role.type.ref : OK.

Reply to transaction 3:

- Message 1, on abrogated.regulation.ref : VR-ABRACT-3: Only stable regulations can be abrogated.

Reply to transaction 4:

- Message 1, on modification.regulation.ref : OK.

Reply to transaction 5:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 6:

- Message 1 : OK.

Reply to transaction 7:

- Message 1 : OK.

Reply to transaction 8:

- Message 1 : OK.

Reply to transaction 9:

- Message 1, on modification.regulation.ref : OK.

Reply to transaction 10:

- Message 1, on measure : OK.

Reply to transaction 11:

- Message 1, on modification.regulation.ref : VR-MGR-6:

The validity period of the regulation must always span the validity period of the measures having this regulation as measure-generating regulation.

- Message 1 : VR-MGR-6: The validity period of the regulation must always span the validity period of the measures having this regulation as measure-generating regulation.

Reply to transaction 12:

- Message 1 : OK.

Reply to transaction 13:

- Message 1 : OK.

Reply to transaction 14:

- Message 1 : OK.

2.2.3. Test case dm_ear_stable_update: Update a stable explicit abrogation regulation

Message: **dm_ear_stable_update_01.xml**

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, message *init_ref_explicit_abrogation_regulation_setup_01.xml* should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable explicit abrogation regulation with regulation id = *R0100000*, regulation role type = *7*, abrogation date = *2008-01-01*, approved flag = *1*.

Transaction 2:

- Message 1: Insert a stable explicit abrogation regulation with regulation id = *R0802001*, regulation role type = *7*, abrogation date = *2008-01-01*, approved flag = *1*.

Transaction 3:

- Message 1: Update the stable explicit abrogation regulation with regulation id = *R0802001*, regulation role type = *7*, abrogation date = *2007-01-01*, approved flag = *1*.

Transaction 4:

- Message 1: Update the stable explicit abrogation

regulation with regulation id = *R0802001*, regulation role
type = *7*, abrogation date = *2008-01-01*, approved flag =
0.

Transaction 5:

- Message 1: Update the stable explicit abrogation
  regulation with regulation id = *AR0802001*, regulation
  role type = *7*, abrogation date = *01-01-2008*, approved
  flag = *1*.

Transaction 6:

- Message 1: Update the stable explicit abrogation
  regulation with regulation id = *R0802001*, regulation role
  type = *7*:

  > regulation id = *R0100010*, regulation role type =
  > *1*.

  abrogation date = *2008-01-01*, replacement indicator = *1*,
  approved flag = *1*.

Transaction 7:

- Message 1: Request the explicit abrogation regulation
  with operator = *AND*, query space field = *EXPLICIT
  ABROGATION REGULATION.ABROGATION
  REGULATION REF.LEGAL REGULATION
  REF.Regulation id*, operator = =, constant = *R0802001*,
  query space field = *EXPLICIT ABROGATION
  REGULATION.ABROGATION REGULATION
  REF.Regulation role type*, operator = =, constant = *7*.

Expected output:

The message is composed of transactions replying to the original
transactions:

Reply to transaction 1:

- Message 1, on abrogation.regulation.ref : VR-VI-1: Data
  to be updated must exist.

Reply to transaction 2:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 3:

- Message 1, on abrogation.date : VR-EAR-1: The
  abrogation date of an explicit abrogation regulation
  cannot be updated.

Reply to transaction 4:

- Message 1, on approved.flag : GEN-VALIDATION-
  ERROR: XML Schema validation error.

Reply to transaction 5:

- Message 1, on regulation.id : GEN-INVALID-
  FORMAT-ERROR: Invalid format.

- Message 1, on abrogation.date : GEN-INVALID-FORMAT-ERROR: Invalid format.

Reply to transaction 6:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 7:

- Message 1 : OK.

Message:	**dm_ear_stable_update_03.xml**
Precondition:	Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, *init_ref_explicit_abrogation_regulation_setup_01.xml* message should be successfully processed by the system.
Content:	The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable regulation role type with regulation role type id = *7*, start date = *2008-02-01*:

    o description 1: language id = *EN*, description = *English Description*.

    o description 2: language id = *FR*, description = *French Description*.

    o description 3: language id = *NL*, description = *Dutch Description*.

Transaction 2:

- Message 1: Insert a stable explicit abrogation regulation with regulation id = *R0801001*, regulation role type = *7*, abrogation date = *2009-01-01*, approved flag = *1*.

Transaction 3:

- Message 1: Update the stable explicit abrogation regulation with regulation id = *R0801001*, regulation role type = *7*, abrogation date = *2009-01-01*, approved flag = *0*.

Expected output:	The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on regulation.role.type.ref : OK.

Reply to transaction 2:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 3:

- Message 1, on approved.flag : GEN-VALIDATION-ERROR: XML Schema validation error.

2.2.4. Test case dm_ear_stable_delete: Delete a stable explicit abrogation regulation

Message: **dm_ear_stable_delete_01.xml**

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, *init_ref_explicit_abrogation_regulation_setup_01.xml* message should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable explicit abrogation regulation with regulation id = *R0803001*, regulation role type = *7*, abrogation date = *2008-01-01*, approved flag = *1*.

Transaction 2:

- Message 1: Request the explicit abrogation regulation with query space field = *EXPLICIT ABROGATION REGULATION.ABROGATION REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = =, constant = *R0803001*.

Transaction 3:

- Message 1: Delete the explicit abrogation regulation with regulation id = *R0803001*, regulation role type = *7*.

Transaction 4:

- Message 1: Delete the explicit abrogation regulation with regulation id = *R0803001*, regulation role type = *7*.

Transaction 5:

- Message 1: Insert a stable explicit abrogation regulation with regulation id = *R0803002*, regulation role type = *7*:

    regulation id = *R0100010*, regulation role type = *1*.

    abrogation date = *2008-01-01*, approved flag = *1*.

Transaction 6:

- Message 1: Delete the explicit abrogation regulation with regulation id = *R0803002*, regulation role type = *7*.

Expected output: The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on regulation.id : OK.

Reply to transaction 4:

- Message 1, on explicit.abrogation.regulation.ref : VR-VI-3: Data to be deleted must exist.

Reply to transaction 5:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 6:

- Message 1, on explicit.abrogation.regulation.ref : VR-ABR-4: An abrogation regulation cannot be deleted if it abrogates at least one regulation.

Message: **dm_ear_stable_delete_02.xml**

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, *init_ref_explicit_abrogation_regulation_setup_01.xml* message should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable explicit abrogation regulation with regulation id = *R0801001*, regulation role type = *7*:

    regulation id = *R0801001*, regulation role type = *1*.

  abrogation date = *2009-12-31*, approved flag = *1*.

Transaction 2:

- Message 1: Update the stable explicit abrogation regulation with regulation id = *R0801001*, regulation role type = *7*, abrogation date = *2009-12-31*, approved flag = *1*.

Transaction 3:

- Message 1: Update the stable explicit abrogation regulation with regulation id = *R0801001*, regulation role type = *7*, abrogation date = *2009-12-31*, approved flag = *1*.

Transaction 4:

- Message 1: Insert a stable modification regulation with regulation id = *R0801002*, regulation role type = *4*, start date = *2009-01-01*, end date = *2010-06-01*, regulation id = *R0801002*, regulation role type = *1*, approved flag = *1*.

Transaction 5:

- Message 1: Insert a stable explicit abrogation regulation with regulation id = *R0801002*, regulation role type = *7*:

  > regulation id = *R0801002*, regulation role type = *1*.

  abrogation date = *2009-12-31*, approved flag = *1*.

Transaction 6:

- Message 1: Request the explicit abrogation regulation with operator = *AND*, query space field = *EXPLICIT ABROGATION REGULATION.ABROGATION REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = *=*, constant = *R0801002*, query space field = *EXPLICIT ABROGATION REGULATION.ABROGATION REGULATION REF.Regulation role type*, operator = *=*, constant = *7*.

Transaction 7:

- Message 1: Update the stable explicit abrogation regulation with regulation id = *R0801002*, regulation role type = *7*, abrogation date = *2009-12-31*, approved flag = *1*.

Transaction 8:

- Message 1: Request the explicit abrogation regulation with operator = *AND*, query space field = *EXPLICIT ABROGATION REGULATION.ABROGATION REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = *=*, constant = *R0801002*, query space field = *EXPLICIT ABROGATION REGULATION.ABROGATION REGULATION REF.Regulation role type*, operator = *=*, constant = *7*.

Transaction 9:

- Message 1: Insert a stable prorogation regulation with regulation id = *R0801003*, regulation role type = *5*:

  o prorogation regulation action 1: regulation id = *R0801003*, regulation role type = *1*, extended date = *2010-06-01*.

  approved flag = *1*.

Transaction 10:

- Message 1: Insert a stable explicit abrogation regulation

with regulation id = *R0801003*, regulation role type = *7*:

> regulation id = *R0801003*, regulation role type = *1*.

abrogation date = *2009-12-31*, approved flag = *1*.

Transaction 11:

- Message 1: Request the base regulation with operator = *AND*, query space field = *BASE REGULATION.BASE REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = =, constant = *R0801003*, query space field = *BASE REGULATION.BASE REGULATION REF.Regulation role type*, operator = =, constant = *1*.

Transaction 12:

- Message 1: Update the stable explicit abrogation regulation with regulation id = *R0801003*, regulation role type = *7*, abrogation date = *2009-12-31*, approved flag = *1*.

Transaction 13:

- Message 1: Request the base regulation with operator = *AND*, query space field = *BASE REGULATION.BASE REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = =, constant = *R0801003*, query space field = *BASE REGULATION.BASE REGULATION REF.Regulation role type*, operator = =, constant = *1*.

Transaction 14:

- Message 1: Insert a stable explicit abrogation regulation with regulation id = *R0801004*, regulation role type = *7*:

> regulation id = *R0801004*, regulation role type = *1*.

abrogation date = *2009-06-01*, approved flag = *1*.

Transaction 15:

- Message 1: Request the base regulation with operator = *AND*, query space field = *BASE REGULATION.BASE REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = =, constant = *R0801004*, query space field = *BASE REGULATION.BASE REGULATION REF.Regulation role type*, operator = =, constant = *1*.

Transaction 16:

- Message 1: Update the stable explicit abrogation regulation with regulation id = *R0801004*, regulation role type = *7*, abrogation date = *2009-06-01*, approved flag =

1.

Transaction 17:

- Message 1: Request the base regulation with operator = *AND*, query space field = *BASE REGULATION.BASE REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = =, constant = *R0801004*, query space field = *BASE REGULATION.BASE REGULATION REF.Regulation role type*, operator = =, constant = *1*.

Transaction 18:

- Message 1: Insert a stable modification regulation with regulation id = *R0801005*, regulation role type = *4*, start date = *2009-06-01*, regulation id = *R0801005*, regulation role type = *1*, approved flag = *1*.

Transaction 19:

- Message 1: Insert a stable explicit abrogation regulation with regulation id = *R0801005*, regulation role type = *7*:

    regulation id = *R0801005*, regulation role type = *4*.

  abrogation date = *2009-10-01*, approved flag = *1*.

Transaction 20:

- Message 1: Request the modification regulation with operator = *AND*, query space field = *MODIFICATION REGULATION.MODIFICATION REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = =, constant = *R0801005*, query space field = *MODIFICATION REGULATION.MODIFICATION REGULATION REF.Regulation role type*, operator = =, constant = *4*.

Transaction 21:

- Message 1: Update the stable explicit abrogation regulation with regulation id = *R0801005*, regulation role type = *7*, abrogation date = *2009-10-01*, approved flag = *1*.

Transaction 22:

- Message 1: Request the modification regulation with operator = *AND*, query space field = *MODIFICATION REGULATION.MODIFICATION REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = =, constant = *R0801005*, query space field = *MODIFICATION REGULATION.MODIFICATION REGULATION REF.Regulation role type*, operator = =, constant = *4*.

Transaction 23:

- Message 1: Insert a stable modification regulation with

regulation id = *R0801006*, regulation role type = *4*, start date = *2009-01-01*, end date = *2009-06-01*, regulation id = *R0801006*, regulation role type = *1*, approved flag = *1*.

Transaction 24:

- Message 1: Insert a stable prorogation regulation with regulation id = *R0801006*, regulation role type = *5*:

  o prorogation regulation action 1: regulation id = *R0801006*, regulation role type = *4*, extended date = *2009-10-01*.

  approved flag = *1*.

Transaction 25:

- Message 1: Insert a stable explicit abrogation regulation with regulation id = *R0801006*, regulation role type = *7*:

  regulation id = *R0801006*, regulation role type = *4*.

  abrogation date = *2009-03-01*, approved flag = *1*.

Transaction 26:

- Message 1: Request the modification regulation with operator = *AND*, query space field = *MODIFICATION REGULATION.MODIFICATION REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = *=*, constant = *R0801006*, query space field = *MODIFICATION REGULATION.MODIFICATION REGULATION REF.Regulation role type*, operator = *=*, constant = *4*.

Transaction 27:

- Message 1: Update the stable explicit abrogation regulation with regulation id = *R0801006*, regulation role type = *7*, abrogation date = *2009-03-01*, approved flag = *1*.

Transaction 28:

- Message 1: Request the modification regulation with operator = *AND*, query space field = *MODIFICATION REGULATION.MODIFICATION REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = *=*, constant = *R0801006*, query space field = *MODIFICATION REGULATION.MODIFICATION REGULATION REF.Regulation role type*, operator = *=*, constant = *4*.

Transaction 29:

- Message 1: Insert a stable modification regulation with regulation id = *R0801007*, regulation role type = *4*, start date = *2009-01-01*, end date = *2010-01-01*, regulation id

= *R0801007*, regulation role type = *1*, approved flag = *1*.

Transaction 30:

- Message 1: Insert a stable explicit abrogation regulation with regulation id = *R0801007*, regulation role type = *7*:

  regulation id = *R0801007*, regulation role type = *4*.

  abrogation date = *2009-06-01*, approved flag = *1*.

Transaction 31:

- Message 1: Request the modification regulation with operator = *AND*, query space field = *MODIFICATION REGULATION.MODIFICATION REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = *=*, constant = *R0801007*, query space field = *MODIFICATION REGULATION.MODIFICATION REGULATION REF.Regulation role type*, operator = *=*, constant = *4*.

Transaction 32:

- Message 1: Update the stable explicit abrogation regulation with regulation id = *R0801007*, regulation role type = *7*, abrogation date = *2009-06-01*, approved flag = *1*.

Transaction 33:

- Message 1: Request the modification regulation with operator = *AND*, query space field = *MODIFICATION REGULATION.MODIFICATION REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = *=*, constant = *R0801007*, query space field = *MODIFICATION REGULATION.MODIFICATION REGULATION REF.Regulation role type*, operator = *=*, constant = *4*.

Transaction 34:

- Message 1: Insert a stable fts regulation with regulation id = *R0801008*, regulation role type = *8*, start date = *2009-06-01*, end date = *2009-08-01*:

  o fts regulation action 1: regulation id = *R0801008*, regulation role type = *1*.

  approved flag = *1*.

Transaction 35:

- Message 1: Insert a stable explicit abrogation regulation with regulation id = *R0801008*, regulation role type = *7*:

  regulation id = *R0801008*, regulation role type = *8*.

abrogation date = *2009-07-01*, approved flag = *1*.

Transaction 36:

- Message 1: Request the fts regulation with operator = *AND*, query space field = *FTS REGULATION.FTS REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = =, constant = *R0801008*, query space field = *FTS REGULATION.FTS REGULATION REF.Regulation role type*, operator = =, constant = *8*.

Transaction 37:

- Message 1: Update the stable explicit abrogation regulation with regulation id = *R0801008*, regulation role type = *7*, abrogation date = *2009-07-01*, approved flag = *1*.

Transaction 38:

- Message 1: Request the fts regulation with operator = AND, query space field = FTS REGULATION.FTS REGULATION REF.LEGAL REGULATION REF.Regulation id, operator = =, constant = R0801008, query space field = FTS REGULATION.FTS REGULATION REF.Regulation role type, operator = =, constant = 8.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 2:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 3:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 4:

- Message 1, on modification.regulation.ref : OK.

Reply to transaction 5:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 6:

- Message 1 : OK.

Reply to transaction 7:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 8:

- Message 1 : OK.

Reply to transaction 9:

- Message 1, on prorogation.regulation.ref : OK.

Reply to transaction 10:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 11:

- Message 1 : OK.

Reply to transaction 12:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 13:

- Message 1 : OK.

Reply to transaction 14:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 15:

- Message 1 : OK.

Reply to transaction 16:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 17:

- Message 1 : OK.

Reply to transaction 18:

- Message 1, on modification.regulation.ref : OK.

Reply to transaction 19:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 20:

- Message 1 : OK.

Reply to transaction 21:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 22:

- Message 1 : OK.

Reply to transaction 23:

- Message 1, on modification.regulation.ref : OK.

Reply to transaction 24:

- Message 1, on prorogation.regulation.ref : OK.

Reply to transaction 25:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 26:

- Message 1 : OK.

Reply to transaction 27:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 28:

- Message 1 : OK.

Reply to transaction 29:

- Message 1, on modification.regulation.ref : OK.

Reply to transaction 30:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 31:

- Message 1 : OK.

Reply to transaction 32:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 33:

- Message 1 : OK.

Reply to transaction 34:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 35:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 36:

- Message 1 : OK.

Reply to transaction 37:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 38:

- Message 1 : OK.

2.3.   Complete abrogation regulation

2.3.1.   Test case init_ref_complete_abrogation_regulation_setup_01: Insertion of Complete abrogation regulation reference data

Message: **init_ref_complete_abrogation_regulation_setup_01.xml**

Precondition: Make sure the database is empty.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable language with language id = *EN*, start date = *2000-01-01*:

- Message 2: Insert a stable language with language id = *FR*, start date = *2000-01-01*:

    o   description 1: language id = *EN*, description =

French.

- Message 3: Insert a stable language with language id = *NL*, start date = *2000-01-01*:

  o description 1: language id = *EN*, description = *Dutch*.

  o description 2: language id = *FR*, description = *Néerlandais*.

Transaction 2:

- Message 1: Insert a stable regulation role type with regulation role type id = *1*, start date = *2000-01-01*:

  o description 1: language id = *EN*, description = *Base regulation*.

  o description 2: language id = *FR*, description = *Règlement de base*.

  o description 3: language id = *NL*, description = *Basisverordening*.

- Message 2: Insert a stable regulation role type with regulation role type id = *2*, start date = *2000-01-01*:

  o description 1: language id = *EN*, description = *Provisional anti-dumping/countervailing duty*.

  o description 2: language id = *FR*, description = *Droit anti-dumping/compensateur provisoire*.

  o description 3: language id = *NL*, description = *Voorlopig antidumping-/compenserend recht*.

- Message 3: Insert a stable regulation role type with regulation role type id = *3*, start date = *2000-01-01*:

  o description 1: language id = *EN*, description = *Definitive anti-dumping/countervailing duty*.

  o description 2: language id = *FR*, description = *Droit anti-dumping/compensateur définitif*.

  o description 3: language id = *NL*, description = *Definitief antidumping/compenserend recht*.

- Message 4: Insert a stable regulation role type with regulation role type id = *4*, start date = *2000-01-01*:

  o description 1: language id = *EN*, description = *Modification*.

  o description 2: language id = *FR*, description =

Modification.

- o description 3: language id = *NL*, description = *Wijziging*.

- Message 5: Insert a stable regulation role type with regulation role type id = *5*, start date = *2000-01-01*:

  - o description 1: language id = *EN*, description = *Prorogation*.

  - o description 2: language id = *FR*, description = *Prorogation*.

  - o description 3: language id = *NL*, description = *Verlenging*.

- Message 6: Insert a stable regulation role type with regulation role type id = *6*, start date = *2000-01-01*:

  - o description 1: language id = *EN*, description = *Complete abrogation*.

  - o description 2: language id = *FR*, description = *Abrogation complÃ¨te*.

  - o description 3: language id = *NL*, description = *Volledige afschaffing*.

- Message 7: Insert a stable regulation role type with regulation role type id = *7*, start date = *2000-01-01*:

  - o description 1: language id = *EN*, description = *Explicit abrogation*.

  - o description 2: language id = *FR*, description = *Abrogation explicite*.

  - o description 3: language id = *NL*, description = *Expliciete afchaffing*.

- Message 8: Insert a stable regulation role type with regulation role type id = *8*, start date = *2000-01-01*:

  - o description 1: language id = *EN*, description = *Regulation which temporarily suspends all other regulation (FTS - Full Temporary Stop)*.

  - o description 2: language id = *FR*, description = *RÃ¨glement qui suspend temporairement tout un autre rÃ¨glement (FTS - Full Temporary Stop)*.

  - o description 3: language id = *NL*, description = *Verordening die tijdelijk de toepassing van een andere verordening opschort (FTS - Full*

Temporary Stop).

Transaction 3:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = *0100000000*, productline suffix = *80*, start date = *2008-01-01*, goods nomenclature sid = *1*:

  o description period 1: start date = *2008-01-01*:

    ▪ description 1: language id = *EN*, description = *English Description*.

    ▪ description 2: language id = *FR*, description = *French Description*.

    ▪ description 3: language id = *NL*, description = *Dutch Description*.

  o indent 1: indent sid = *1*, start date = *2008-01-01*, indent number = *01*.

  statistical indicator = *0*.

Transaction 4:

- Message 1: Insert a stable regulation group with regulation group id = *GGA*, start date = *2008-01-01*:

  o description 1: language id = *EN*, description = *English Description of regulation group*.

  o description 2: language id = *FR*, description = *French Description of regulation group*.

  o description 3: language id = *NL*, description = *Dutch Description of regulation group*.

Transaction 5:

- Message 1: Insert a stable measure type series with measure type series id = *AA*, start date = *2008-01-01*:

  o description 1: language id = *EN*, description = *English Description*.

  o description 2: language id = *FR*, description = *French Description*.

  o description 3: language id = *NL*, description = *Dutch Description*.

  measure type combination = *0*.

- Message 2: Insert a stable measure type with measure type id = *001*, start date = *2008-01-01*:

- o description 1: language id = *EN*, description = *English Description*.

- o description 2: language id = *FR*, description = *French Description*.

- o description 3: language id = *NL*, description = *Dutch Description*.

measure type series id = *AA*:

- o associated regulation group 1: regulation group id = *GGA*, start date = *2008-01-01*.

trade movement code = *0*, measure explosion level = *6*, measure component applicable code = *2*, order number capture code = *2*, accepted via input bridge = *0*.

Transaction 6:

- Message 1: Insert a stable legal regulation with regulation id = *R0801001*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 2: Insert a stable legal regulation with regulation id = *R0801002*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 3: Insert a stable legal regulation with regulation id = *C0801002*.

- Message 4: Insert an unstable legal regulation with regulation id = *R0801003*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 5: Insert a stable legal regulation with regulation id = *R0801006*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 6: Insert a stable legal regulation with regulation id = *R0801007*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 7: Insert a stable legal regulation with regulation id = *R0801008*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 8: Insert a stable legal regulation with regulation id = *R0801009*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 9: Insert a stable legal regulation with regulation id = *R0801010*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 10: Insert a stable legal regulation with

regulation id = *R0801011*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 11: Insert a stable legal regulation with regulation id = *R0801012*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 12: Insert a stable legal regulation with regulation id = *R0801013*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 13: Insert a stable legal regulation with regulation id = *R0801014*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 14: Insert a stable legal regulation with regulation id = *R0801019*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 15: Insert a stable legal regulation with regulation id = *R0801020*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 16: Insert a stable legal regulation with regulation id = *R0801030*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 17: Insert a stable legal regulation with regulation id = *R0801031*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 18: Insert a stable legal regulation with regulation id = *R0801032*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 19: Insert a stable legal regulation with regulation id = *R0801033*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 20: Insert a stable legal regulation with regulation id = *R0801034*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 21: Insert a stable legal regulation with regulation id = *R0801035*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 22: Insert a stable legal regulation with regulation id = *R0801036*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 23: Insert a stable legal regulation with regulation id = *R0801040*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 24: Insert a stable legal regulation with regulation id = *R0801041*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 25: Insert a stable legal regulation with regulation id = *R0801042*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 26: Insert a stable legal regulation with regulation id = *R0801050*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 27: Insert a stable legal regulation with regulation id = *R0801051*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 28: Insert a stable legal regulation with regulation id = *R0800001*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 29: Insert a stable legal regulation with regulation id = *R0800003*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 30: Insert a stable legal regulation with regulation id = *R0800004*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 31: Insert a stable legal regulation with regulation id = *R0800005*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 32: Insert a stable legal regulation with regulation id = *R0800006*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 33: Insert a stable legal regulation with regulation id = *R0800007*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 34: Insert a stable legal regulation with regulation id = *R0800008*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 35: Insert a stable legal regulation with regulation id = *R0800011*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 36: Insert a stable legal regulation with regulation id = *R0800012*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 37: Insert a stable legal regulation with regulation id = *R0800014*, published date = *2008-01-01*,

official journal number = *1*, official journal page = *1*.

- Message 38: Insert a stable legal regulation with regulation id = *R0800018*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 39: Insert a stable legal regulation with regulation id = *R0800024*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 40: Insert a stable legal regulation with regulation id = *R0800028*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 41: Insert a stable legal regulation with regulation id = *R0800044*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 42: Insert a stable legal regulation with regulation id = *R0800048*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 43: Insert a stable legal regulation with regulation id = *R0800054*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 44: Insert a stable legal regulation with regulation id = *C0800001*.

- Message 45: Insert a stable legal regulation with regulation id = *R0802001*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 46: Insert a stable legal regulation with regulation id = *R0803001*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 47: Insert a stable legal regulation with regulation id = *R0803002*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 48: Insert a stable legal regulation with regulation id = *R0804001*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 49: Insert an unstable legal regulation with regulation id = *R0804003*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 50: Insert a stable legal regulation with regulation id = *R0805002*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 51: Insert a stable legal regulation with regulation id = *R0805003*, published date = *2008-01-01*,

official journal number = *1*, official journal page = *1*.

- Message 52: Insert a stable legal regulation with regulation id = *R0805011*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

- Message 53: Insert a stable legal regulation with regulation id = *R0805012*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 7:

- Message 1: Insert a stable country with country id = *BE*, start date = *1900-01-01*, area code = *0*:

  o description period 1: start date = *1900-01-01*:

    ▪ description 1: language id = *EN*, description = *EN description*.

    ▪ description 2: language id = *FR*, description = *FR description*.

    ▪ description 3: language id = *NL*, description = *NL description*.

Transaction 8:

- Message 1: Insert a stable country with country id = *FR*, start date = *1900-01-01*, area code = *0*:

  o description period 1: start date = *1900-01-01*:

    ▪ description 1: language id = *EN*, description = *EN description*.

    ▪ description 2: language id = *FR*, description = *FR description*.

    ▪ description 3: language id = *NL*, description = *NL description*.

Transaction 9:

- Message 1: Insert a stable base regulation with regulation id = *R0800001*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

- Message 2: Insert a stable base regulation with regulation id = *C0800001*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *0*.

- Message 3: Insert a stable base regulation with regulation id = *R0801011*, regulation role type = *3*, start date = *2008-05-02*, end date = *2009-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

- Message 4: Insert a stable base regulation with regulation id = *R0800003*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

- Message 5: Insert a stable base regulation with regulation id = *R0800006*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

- Message 6: Insert a stable base regulation with regulation id = *R0800007*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

- Message 7: Insert a stable base regulation with regulation id = *R0800011*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

- Message 8: Insert an unstable base regulation with regulation id = *R0800012*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

- Message 9: Insert a stable base regulation with regulation id = *R0800044*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

- Message 10: Insert a stable base regulation with regulation id = *R0800054*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 10:

- Message 1: Insert a stable modification regulation with regulation id = *R0800004*, regulation role type = *4*, start date = *2008-01-01*, regulation id = *R0800044*, regulation role type = *1*, approved flag = *1*.

- Message 2: Insert a stable modification regulation with regulation id = *R0800024*, regulation role type = *4*, start date = *2008-01-01*, regulation id = *R0800054*, regulation role type = *1*, approved flag = *1*.

Transaction 11:

- Message 1: Insert a stable prorogation regulation with regulation id = *R0800005*, regulation role type = *5*, approved flag = *1*.

Transaction 12:

- Message 1: Insert a stable fts regulation with regulation

id = *R0800008*, regulation role type = *8*, start date = *2008-01-01*, approved flag = *1*.

- Message 2: Insert a stable fts regulation with regulation id = *R0800018*, regulation role type = *8*, start date = *2008-01-01*, approved flag = *1*.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on language.ref : OK.

- Message 2, on language.ref : OK.

- Message 3, on language.ref : OK.

Reply to transaction 2:

- Message 1, on regulation.role.type.ref : OK.

- Message 2, on regulation.role.type.ref : OK.

- Message 3, on regulation.role.type.ref : OK.

- Message 4, on regulation.role.type.ref : OK.

- Message 5, on regulation.role.type.ref : OK.

- Message 6, on regulation.role.type.ref : OK.

- Message 7, on regulation.role.type.ref : OK.

- Message 8, on regulation.role.type.ref : OK.

Reply to transaction 3:

- Message 1, on goods.nomenclature.ref : OK.

Reply to transaction 4:

- Message 1, on regulation.group.ref : OK.

Reply to transaction 5:

- Message 1, on measure.type.series.ref : OK.

- Message 2, on measure.type.ref : OK.

Reply to transaction 6:

- Message 1, on legal.regulation.ref : OK.

- Message 2, on legal.regulation.ref : OK.

- Message 3, on legal.regulation.ref : OK.

- Message 4, on legal.regulation.ref : OK.

- Message 5, on legal.regulation.ref : OK.

- Message 6, on legal.regulation.ref : OK.

- Message 7, on legal.regulation.ref : OK.

- Message 8, on legal.regulation.ref : OK.

- Message 9, on legal.regulation.ref : OK.

- Message 10, on legal.regulation.ref : OK.

- Message 11, on legal.regulation.ref : OK.

- Message 12, on legal.regulation.ref : OK.

- Message 13, on legal.regulation.ref : OK.

- Message 14, on legal.regulation.ref : OK.

- Message 15, on legal.regulation.ref : OK.

- Message 16, on legal.regulation.ref : OK.

- Message 17, on legal.regulation.ref : OK.

- Message 18, on legal.regulation.ref : OK.

- Message 19, on legal.regulation.ref : OK.

- Message 20, on legal.regulation.ref : OK.

- Message 21, on legal.regulation.ref : OK.

- Message 22, on legal.regulation.ref : OK.

- Message 23, on legal.regulation.ref : OK.

- Message 24, on legal.regulation.ref : OK.

- Message 25, on legal.regulation.ref : OK.

- Message 26, on legal.regulation.ref : OK.

- Message 27, on legal.regulation.ref : OK.

- Message 28, on legal.regulation.ref : OK.

- Message 29, on legal.regulation.ref : OK.

- Message 30, on legal.regulation.ref : OK.

- Message 31, on legal.regulation.ref : OK.

- Message 32, on legal.regulation.ref : OK.

- Message 33, on legal.regulation.ref : OK.

- Message 34, on legal.regulation.ref : OK.

- Message 35, on legal.regulation.ref : OK.

- Message 36, on legal.regulation.ref : OK.

- Message 37, on legal.regulation.ref : OK.

- Message 38, on legal.regulation.ref : OK.

- Message 39, on legal.regulation.ref : OK.

- Message 40, on legal.regulation.ref : OK.

- Message 41, on legal.regulation.ref : OK.

- Message 42, on legal.regulation.ref : OK.

- Message 43, on legal.regulation.ref : OK.

- Message 44, on legal.regulation.ref : OK.

- Message 45, on legal.regulation.ref : OK.

- Message 46, on legal.regulation.ref : OK.

- Message 47, on legal.regulation.ref : OK.

- Message 48, on legal.regulation.ref : OK.

- Message 49, on legal.regulation.ref : OK.

- Message 50, on legal.regulation.ref : OK.

- Message 51, on legal.regulation.ref : OK.

- Message 52, on legal.regulation.ref : OK.

- Message 53, on legal.regulation.ref : OK.

Reply to transaction 7:

- Message 1, on country.ref : OK.

Reply to transaction 8:

- Message 1, on country.ref : OK.

Reply to transaction 9:

- Message 1, on base.regulation.ref : OK.

- Message 2, on base.regulation.ref : OK.

- Message 3, on base.regulation.ref : OK.

- Message 4, on base.regulation.ref : OK.

- Message 5, on base.regulation.ref : OK.

- Message 6, on base.regulation.ref : OK.

- Message 7, on base.regulation.ref : OK.

- Message 8, on base.regulation.ref : OK.

- Message 9, on base.regulation.ref : OK.

- Message 10, on base.regulation.ref : OK.

Reply to transaction 10:

- Message 1, on modification.regulation.ref : OK.

- Message 2, on modification.regulation.ref : OK.

Reply to transaction 11:

- Message 1, on prorogation.regulation.ref : OK.

Reply to transaction 12:

- Message 1, on fts.regulation.ref : OK.

- Message 2, on fts.regulation.ref : OK.

2.3.2. Test case dm_car_insert: Insert a complete abrogation regulation

Message: **dm_car_insert_01.xml**

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, message *init_ref_complete_abrogation_regulation_setup_01.xml* should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable complete abrogation regulation with regulation id = *R0801003*, regulation role type = *6*, approved flag = *1*.

Transaction 2:

- Message 1: Insert a stable complete abrogation regulation with regulation id = *R0801002*, regulation role type = *6*.

Transaction 3:

- Message 1: Insert a stable complete abrogation regulation with regulation id = *R0800000*, regulation role type = *6*, approved flag = *1*.

Transaction 4:

- Message 1: Insert an unstable complete abrogation regulation with regulation id = *R0801001*, regulation role type = *6*, approved flag = *y*.

Transaction 5:

- Message 1: Insert a stable complete abrogation regulation with regulation id = *R0801001*, regulation role type = *6*:

    regulation id = *R0800001*, regulation role type = *1*, regulation id = *R0800008*, regulation role type = *8*, regulation id = *R0800004*, regulation role type = *4*.

  approved flag = *1*.

Transaction 6:

- Message 1: Request the complete abrogation regulation with query space field = *COMPLETE ABROGATION REGULATION.ABROGATION REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = =, constant = *R0801001*.

Transaction 7:

- Message 1: Insert a stable complete abrogation regulation with regulation id = *R0801001*, regulation role type = *6*, approved flag = *1*.

Transaction 8:

- Message 1: Insert an unstable complete abrogation regulation with regulation id = *R0801002*, regulation role type = *6*, approved flag = *1*.

Transaction 9:

- Message 1: Insert a stable complete abrogation

regulation with regulation id = *R0801002*, regulation role
type = *6*, approved flag = *0*.

Transaction 10:

- Message 1: Insert a stable complete abrogation
  regulation with regulation id = *C0801002*, regulation role
  type = *6*, approved flag = *0*.

*Expected
output:*

The message is composed of transactions replying to the original
transactions:

Reply to transaction 1:

- Message 1, on abrogation.regulation.ref : VR-VI-6:
  When the publication status of data is set to stable, all
  foreign key reference data must exist as stable.

Reply to transaction 2:

- Message 1, on complete.abrogation.regulation : GEN-
  VALIDATION-ERROR: XML Schema validation error.

Reply to transaction 3:

- Message 1, on regulation.id : VR-ROL-2: The referenced
  legal regulation must exist.

Reply to transaction 4:

- Message 1, on approved.flag : ERROR: cvc-
  enumeration-valid, cvc-type.3.1.3.

- Message 1, on stability.flag : GEN-INVALID-FORMAT-
  ERROR: Invalid format.

Reply to transaction 5:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 6:

- Message 1 : OK.

Reply to transaction 7:

- Message 1, on abrogation.regulation.ref : VR-ROL-1:
  The role-regulation reference (combination of regulation
  ID and regulation role type) must be unique in the
  universe of the stable and unstable data.

Reply to transaction 8:

- Message 1, on stability.flag : GEN-VALIDATION-
  ERROR: XML Schema validation error.

Reply to transaction 9:

- Message 1, on approved.flag : GEN-VALIDATION-
  ERROR: XML Schema validation error.

Reply to transaction 10:

- Message 1, on approved.flag : GEN-VALIDATION-

ERROR: XML Schema validation error.

2.3.3. Test case dm_car_update: Update a complete abrogation regulation

Message: **dm_car_update_01.xml**

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, message *init_ref_complete_abrogation_regulation_setup_01.xml* should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable complete abrogation regulation with regulation id = *R0800000*, regulation role type = *6*, approved flag = *1*.

Transaction 2:
- Message 1: Insert a stable complete abrogation regulation with regulation id = *R0802001*, regulation role type = *6*, approved flag = *1*.

Transaction 3:
- Message 1: Update the stable complete abrogation regulation with regulation id = *R0802001*, regulation role type = *6*, approved flag = *0*.

Transaction 4:
- Message 1: Update the unstable complete abrogation regulation with regulation id = *R0802001*, regulation role type = *6*, approved flag = *y*.

Transaction 5:
- Message 1: Update the unstable complete abrogation regulation with regulation id = *R0802001*, regulation role type = *6*.

Transaction 6:
- Message 1: Update the stable complete abrogation regulation with regulation id = *R0802001*, regulation role type = *6*:

  regulation id = *R0800003*, regulation role type = *1*.

  approved flag = *1*.

Transaction 7:
- Message 1: Request the complete abrogation regulation with query space field = *COMPLETE ABROGATION*

REGULATION.ABROGATION REGULATION REF.LEGAL REGULATION REF.Regulation id, operator = =, constant = *R0802001*.

Expected output: The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on abrogation.regulation.ref : VR-VI-1: Data to be updated must exist.

Reply to transaction 2:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 3:

- Message 1, on approved.flag : GEN-VALIDATION-ERROR: XML Schema validation error.

Reply to transaction 4:

- Message 1, on approved.flag : ERROR: cvc-enumeration-valid, cvc-type.3.1.3.

- Message 1, on stability.flag : GEN-INVALID-FORMAT-ERROR: Invalid format.

Reply to transaction 5:

- Message 1, on complete.abrogation.regulation : GEN-VALIDATION-ERROR: XML Schema validation error.

Reply to transaction 6:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 7:

- Message 1 : OK.

2.3.4. Test case dm_car_delete: Delete a complete abrogation regulation

Message: **dm_car_delete_01.xml**

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, message *init_ref_complete_abrogation_regulation_setup_01.xml* should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable complete abrogation regulation with regulation id = *R0803001*, regulation role type = *6*, approved flag = *1*.

Transaction 2:

- Message 1: Delete the complete abrogation regulation with regulation id = *R0803001*, regulation role type = *6*.

Transaction 3:

- Message 1: Request the complete abrogation regulation with query space field = *COMPLETE ABROGATION REGULATION.ABROGATION REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = =, constant = *R0803001*.

Transaction 4:

- Message 1: Delete the complete abrogation regulation with regulation id = *R0803001*, regulation role type = *6*.

Transaction 5:

- Message 1: Insert a stable complete abrogation regulation with regulation id = *R0803002*, regulation role type = *6*:

  > regulation id = *R0800006*, regulation role type = *1*.

  approved flag = *1*.

Transaction 6:

- Message 1: Delete the complete abrogation regulation with regulation id = *R0803002*, regulation role type = *6*.

Expected output:	The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 2:

- Message 1, on regulation.id : OK.

Reply to transaction 3:

- Message 1 : OK.

Reply to transaction 4:

- Message 1, on complete.abrogation.regulation.ref : VR-VI-3: Data to be deleted must exist.

Reply to transaction 5:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 6:

- Message 1, on complete.abrogation.regulation.ref : VR-ABR-4: An abrogation regulation cannot be deleted if it abrogates at least one regulation.

2.3.5. Test case dm_caract_insert: Insert a complete abrogation regulation action

Message: **dm_caract_insert_01.xml**

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, message *init_ref_complete_abrogation_regulation_setup_01.xml* should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable complete abrogation regulation with regulation id = *R0804003*, regulation role type = *6*:

    regulation id = *R0800007*, regulation role type = *1*.

  approved flag = *1*.

Transaction 2:
- Message 1: Insert an unstable complete abrogation regulation with regulation id = *Zxxyyyyz*, regulation role type = *a*:

    regulation id = *Wxxyyyyq*, regulation role type = *33*.

  approved flag = *m*.

Transaction 3:
- Message 1: Insert an unstable complete abrogation regulation with regulation id = *R0804001*, regulation role type = *6*:

    regulation id = *R0800009*, regulation role type = *1*.

Transaction 4:
- Message 1: Insert a stable complete abrogation regulation with regulation id = *R0804001*, regulation role type = *6*:

    regulation id = *R1800001*, regulation role type = *1*, regulation id = *R1800008*, regulation role type = *8*, regulation id = *R1800004*, regulation role type = *4*.

  approved flag = *1*.

Transaction 5:

- Message 1: Insert a stable complete abrogation regulation with regulation id = *R0804001*, regulation role type = *6*:

  regulation id = *R0800005*, regulation role type = *5*.

  approved flag = *1*.

Transaction 6:

- Message 1: Insert a stable complete abrogation regulation with regulation id = *R0804001*, regulation role type = *6*:

  regulation id = *C0800001*, regulation role type = *1*.

  approved flag = *1*.

Transaction 7:

- Message 1: Insert a stable complete abrogation regulation with regulation id = *R0804001*, regulation role type = *6*:

  regulation id = *R0800012*, regulation role type = *1*.

  approved flag = *1*.

Transaction 8:

- Message 1: Insert a stable complete abrogation regulation with regulation id = *R0804001*, regulation role type = *6*:

  regulation id = *R0800011*, regulation role type = *1*, regulation id = *R0800018*, regulation role type = *8*, regulation id = *R0800004*, regulation role type = *4*.

  approved flag = *1*.

Transaction 9:

- Message 1: Request the complete abrogation regulation with query space field = *COMPLETE ABROGATION REGULATION.ABROGATION REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = =, constant = *R0804001*.

Transaction 10:

- Message 1: Insert a stable complete abrogation regulation with regulation id = *R0804001*, regulation role type = *6*:

  regulation id = *R0800011*, regulation role type =

1, regulation id = *R0800018*, regulation role type = *8*, regulation id = *R0800004*, regulation role type = *4*.

approved flag = *1*.

__Expected output:__

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on abrogation.regulation.ref : VR-VI-6: When the publication status of data is set to stable, all foreign key reference data must exist as stable.

Reply to transaction 2:
- Message 1, on regulation.id : GEN-INVALID-FORMAT-ERROR: Invalid format.

- Message 1, on regulation.role.type : ERROR: cvc-enumeration-valid, cvc-type.3.1.3.

- Message 1, on regulation.id : GEN-INVALID-FORMAT-ERROR: Invalid format.

- Message 1, on regulation.role.type : GEN-INVALID-FORMAT-ERROR: Invalid format.

- Message 1, on approved.flag : ERROR: cvc-enumeration-valid, cvc-type.3.1.3.

- Message 1, on stability.flag : GEN-INVALID-FORMAT-ERROR: Invalid format.

Reply to transaction 3:
- Message 1, on complete.abrogation.regulation : GEN-VALIDATION-ERROR: XML Schema validation error.

Reply to transaction 4:
- Message 1, on abrogated.regulation.ref[1] : VR-ABRACT-1: The regulation to be abrogated must refer to an existing regulation.

- Message 1, on abrogated.regulation.ref[2] : VR-ABRACT-1: The regulation to be abrogated must refer to an existing regulation.

- Message 1, on abrogated.regulation.ref[3] : VR-ABRACT-1: The regulation to be abrogated must refer to an existing regulation.

Reply to transaction 5:
- Message 1, on regulation.role.type : VR-ABRACT-7: The regulation to be abrogated must refer to a base,

modification or FTS regulation.

Reply to transaction 6:

- Message 1, on regulation.id : VR-ABRACT-2: The regulation to be abrogated cannot be a draft regulation.

Reply to transaction 7:

- Message 1, on abrogated.regulation.ref : VR-ABRACT-3: Only stable regulations can be abrogated.

Reply to transaction 8:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 9:

- Message 1 : OK.

Reply to transaction 10:

- Message 1, on abrogation.regulation.ref : VR-ROL-1: The role-regulation reference (combination of regulation ID and regulation role type) must be unique in the universe of the stable and unstable data.

- Message 1, on abrogated.regulation.ref[1] : VR-ABRACT-4: A regulation already abrogated cannot be abrogated a second time.

- Message 1, on abrogated.regulation.ref[2] : VR-ABRACT-4: A regulation already abrogated cannot be abrogated a second time.

- Message 1, on abrogated.regulation.ref[3] : VR-ABRACT-4: A regulation already abrogated cannot be abrogated a second time.

Message: **dm_caract_insert_02.xml**

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, message *init_ref_complete_abrogation_regulation_setup_01.xml* should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable base regulation with regulation id = *R0801006*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 2:

- Message 1: Insert a stable modification regulation with regulation id = *R0801007*, regulation role type = *4*, start

date = *2008-01-01*, regulation id = *R0801006*, regulation role type = *1*, approved flag = *1*.

Transaction 3:

- Message 1: Insert a stable complete abrogation regulation with regulation id = *R0801008*, regulation role type = *6*:

    regulation id = *R0801006*, regulation role type = *1*.

approved flag = *1*.

Transaction 4:

- Message 1: Insert a stable complete abrogation regulation with regulation id = *R0801009*, regulation role type = *6*:

    regulation id = *R0801007*, regulation role type = *4*.

approved flag = *1*.

Transaction 5:

- Message 1: Insert a stable base regulation with regulation id = *R0801010*, regulation role type = *2*, start date = *2008-01-01*, end date = *2008-05-01*, regulation id = *R0801011*, regulation role type = *3*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 6:

- Message 1: Insert a stable complete abrogation regulation with regulation id = *R0801012*, regulation role type = *6*:

    regulation id = *R0801010*, regulation role type = *2*.

approved flag = *1*.

Transaction 7:

- Message 1: Insert a stable complete abrogation regulation with regulation id = *R0801012*, regulation role type = *6*:

    regulation id = *R0801011*, regulation role type = *3*.

approved flag = *1*.

Transaction 8:

- Message 1: Insert a stable complete abrogation regulation with regulation id = *R0801013*, regulation role type = *6*:

regulation id = *R0801010*, regulation role type = *2*.

approved flag = *1*.

Transaction 9:

- Message 1: Insert a stable base regulation with regulation id = *R0801019*, regulation role type = *1*, start date = *2008-06-01*, end date = *2008-12-31*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 10:

- Message 1: Insert a stable base regulation with regulation id = *R0801020*, regulation role type = *1*, start date = *2008-01-01*, end date = *2008-12-31*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 11:

- Message 1: Insert a stable measure with measure type id = *001*, geographical area id = *BE*, goods nomenclature id = *0100000000*, productline suffix = *80*, start date = *2008-01-01*, end date = *2008-05-31*, regulation id = *R0801020*, regulation role type = *1*, regulation id = *R0801019*, regulation role type = *1*.

Transaction 12:

- Message 1: Insert a stable complete abrogation regulation with regulation id = *R0801014*, regulation role type = *6*:

  regulation id = *R0801019*, regulation role type = *1*.

approved flag = *1*.

Transaction 13:

- Message 1: Insert a stable base regulation with regulation id = *R0801030*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 14:

- Message 1: Insert an unstable modification regulation with regulation id = *R0801031*, regulation role type = *4*, start date = *2008-01-01*, regulation id = *R0801030*, regulation role type = *1*, approved flag = *1*.

Transaction 15:

- Message 1: Insert a stable complete abrogation regulation with regulation id = *R0801032*, regulation role type = *6*:

  regulation id = *R0801030*, regulation role type =

1.

approved flag = *1*.

Expected | The message is composed of transactions replying to the original
output: | transactions:

Reply to transaction 1:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 2:

- Message 1, on modification.regulation.ref : OK.

Reply to transaction 3:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 4:

- Message 1, on abrogated.regulation.ref : VR-ABRACT-4: A regulation already abrogated cannot be abrogated a second time.

- Message 1, on abrogated.regulation.ref : VR-ABRACT-5: A modification regulation cannot be abrogated if its related base regulation is completely abrogated.

Reply to transaction 5:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 6:

- Message 1, on abrogated.regulation.ref : VR-ABRACT-6: A provisional anti-dumping regulation cannot be abrogated if it is related with a definitive anti-dumping regulation, which is not completely abrogated.

Reply to transaction 7:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 8:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 9:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 10:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 11:

- Message 1, on measure : OK.

Reply to transaction 12:

- Message 1, on abrogation.regulation.ref : VR-CARACT-1: When a measure-generating regulation is completely abrogated, then there may be no measures which are generated by another regulation and have the abrogated

regulation as the justification regulation.

Reply to transaction 13:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 14:

- Message 1, on modification.regulation.ref : OK.

Reply to transaction 15:

- Message 1, on regulation.role.type : VR-CARACT-3: A base regulation cannot be completely abrogated if it is modified by at least one unstable modification regulation.

Message: **dm_caract_insert_03.xml**

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, message *init_ref_complete_abrogation_regulation_setup_01.xml* should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable base regulation with regulation id = *R0801033*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 2:

- Message 1: Insert a stable modification regulation with regulation id = *R0801034*, regulation role type = *4*, start date = *2008-01-01*, regulation id = *R0801033*, regulation role type = *1*, approved flag = *1*.

Transaction 3:

- Message 1: Insert a stable modification regulation with regulation id = *R0801035*, regulation role type = *4*, start date = *2008-01-01*, regulation id = *R0801033*, regulation role type = *1*, approved flag = *1*.

Transaction 4:

- Message 1: Insert a stable complete abrogation regulation with regulation id = *R0801036*, regulation role type = *6*:

    regulation id = *R0801033*, regulation role type = *1*.

    approved flag = *1*.

Transaction 5:

- Message 1: Request the complete abrogation regulation with query space field = *COMPLETE ABROGATION REGULATION.ABROGATION REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = =, constant = *R0801036*.

Transaction 6:

- Message 1: Insert a stable base regulation with regulation id = *R0801040*, regulation role type = *1*, start date = *2008-01-01*, end date = *2008-12-31*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 7:

- Message 1: Insert a stable measure with measure type id = *001*, geographical area id = *BE*, goods nomenclature id = *0100000000*, productline suffix = *80*, start date = *2008-01-01*, start date = *2008-01-01*, regulation id = *R0801040*, regulation role type = *1*.

Transaction 8:

- Message 1: Insert a stable measure with measure type id = *001*, geographical area id = *FR*, goods nomenclature id = *0100000000*, productline suffix = *80*, start date = *2008-06-01*, regulation id = *R0801040*, regulation role type = *1*.

Transaction 9:

- Message 1: Insert a stable complete abrogation regulation with regulation id = *R0801041*, regulation role type = *6*:

  regulation id = *R0801040*, regulation role type = *1*.

  approved flag = *1*.

Transaction 10:

- Message 1: Request the complete abrogation regulation with query space field = *COMPLETE ABROGATION REGULATION.ABROGATION REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = =, constant = *R0801041*.

Transaction 11:

- Message 1: Insert a stable base regulation with regulation id = *R0801050*, regulation role type = *1*, start date = *2008-01-01*, end date = *2008-12-31*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 12:

- Message 1: Insert a stable base regulation with regulation id = *R0801051*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id =

GGA, approved flag = *1*.

Transaction 13:

- Message 1: Insert a stable fts regulation with regulation id = *R0800028*, regulation role type = *8*, start date = *2008-03-01*, end date = *2008-04-01*:

    o fts regulation action 1: regulation id = *R0801050*, regulation role type = *1*.

    o fts regulation action 2: regulation id = *R0801051*, regulation role type = *1*.

    approved flag = *1*.

Transaction 14:

- Message 1: Insert a stable complete abrogation regulation with regulation id = *R0801042*, regulation role type = *6*:

    regulation id = *R0800028*, regulation role type = *8*.

    approved flag = *1*.

Transaction 15:

- Message 1: Request the complete abrogation regulation with query space field = *COMPLETE ABROGATION REGULATION.ABROGATION REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = =, constant = *R0801042*.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 2:

- Message 1, on modification.regulation.ref : OK.

Reply to transaction 3:

- Message 1, on modification.regulation.ref : OK.

Reply to transaction 4:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 5:

- Message 1 : OK.

Reply to transaction 6:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 7:

- Message 1, on measure : OK.

Reply to transaction 8:

- Message 1, on measure : OK.

Reply to transaction 9:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 10:

- Message 1 : OK.

Reply to transaction 11:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 12:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 13:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 14:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 15:

- Message 1 : OK.

2.3.6. Test case dm_caract_delete: Delete a complete abrogation regulation action

Message: **dm_caract_delete_01.xml**

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, message *init_ref_complete_abrogation_regulation_setup_01.xml* should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable base regulation with regulation id = *R0805011*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 2:

- Message 1: Insert a stable complete abrogation regulation with regulation id = *R0805002*, regulation role type = *6*:

  regulation id = *R0805011*, regulation role type = *1*.

approved flag = *1*.

Transaction 3:

- Message 1: Update the stable complete abrogation regulation with regulation id = *R0805002*, regulation role type = *6*, approved flag = *1*.

Transaction 4:

- Message 1: Insert a stable base regulation with regulation id = *R0805012*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 5:

- Message 1: Insert a stable fts regulation with regulation id = *R0800048*, regulation role type = *8*, start date = *2008-01-01*:

  o fts regulation action 1: regulation id = *R0805012*, regulation role type = *1*.

approved flag = *1*.

Transaction 6:

- Message 1: Request the fts regulation with query space field = *FTS REGULATION.FTS REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = =, constant = *R0800048*.

Transaction 7:

- Message 1: Insert a stable complete abrogation regulation with regulation id = *R0805003*, regulation role type = *6*:

  regulation id = *R0800048*, regulation role type = *8*.

approved flag = *1*.

Transaction 8:

- Message 1: Request the fts regulation with query space field = *FTS REGULATION.FTS REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = =, constant = *R0800048*.

Transaction 9:

- Message 1: Update the stable complete abrogation regulation with regulation id = *R0805003*, regulation role type = *6*, approved flag = *1*.

Transaction 10:

- Message 1: Request the fts regulation with query space field = *FTS REGULATION.FTS REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator

= =, constant = *R0800048*.

Expected output: The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 2:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 3:

- Message 1, on regulation.role.type : VR-CARACT-2: An abrogation regulation action cannot be deleted if the abrogated regulation is a base or modification regulation.

Reply to transaction 4:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 5:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 6:

- Message 1 : OK.

Reply to transaction 7:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 8:

- Message 1 : OK.

Reply to transaction 9:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 10:

- Message 1 : OK.

2.3.7. Test case dm_car_update: Update a complete abrogation regulation

Message: **dm_car_update_02.xml**

Precondition: *dm_caract_delete_01.xml* .has been executed already.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Request the complete abrogation regulation with query space field = *FTS REGULATION.FTS REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = =, constant = *R0800048*.

Transaction 2:

- Update the stable complete abrogation regulation with regulation id = *R0805003*, regulation role type = *6* approved flag = *1*.

> regulation id = *R0800048*, regulation role type = *8*.

Transaction 3:

- Message 1: Request the complete abrogation regulation with query space field = *COMPLETE ABROGATION REGULATION.ABROGATION REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = =, constant = *R0805003*.

Transaction 4:

- Message 1: Request the complete abrogation regulation with query space field = *FTS REGULATION.FTS REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = =, constant = *R0800048*.

Transaction 5:

- Update the stable complete abrogation regulation with regulation id = *R0805003*, regulation role type = *6* approved flag = *1*.

Transaction 6:

- Message 1: Request the complete abrogation regulation with query space field = *COMPLETE ABROGATION REGULATION.ABROGATION REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = =, constant = *R0805003*.

Transaction 7:

- Message 1: Request the complete abrogation regulation with query space field = *FTS REGULATION.FTS REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = =, constant = *R0800048*.

Expected output: The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1: OK.

Reply to transaction 2:

- Message 1: OK.

Reply to transaction 3:

- Message 1: OK.

Reply to transaction 4:

- Message 1: OK.

Reply to transaction 5:

- Message 1: OK

Reply to transaction 6:

- Message 1: OK.

Reply to transaction 7:

- Message 1: OK.

3. TEST REPORT FORM

3.1. Environment description

Hardware platform	Sun
Operating system	Solaris X
Official release number[1]	n1.n2.n3
ClearCase label[2]	TARIC3_INT_YYYYMMDD[x] or TARIC3_n1.n2.n3
System Test File version	1.00
Execution date	YYYY-MM-DD

3.2. Test case execution

Test case id	dm_fts_unstable_insert	Status	
Message id	dm_fts_unstable_insert.xml	Status	
Transaction id	Status		Comment
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Test case id	dm_fts_unstable_update	Status	
Message id	dm_fts_unstable_update_01.xml	Status	
Transaction id	Status		Comment
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[1] This information must only be filled in for testing of official delivery (e.g. 1.0.0).

[2] This information is only available to the development team and identifies the tested internal version.

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Test case id	dm_fts_unstable_delete	Status
Message id	dm_fts_unstable_delete_01.xml	Status
Transaction id	Status	Comment
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Test case id	dm_fts_stable_insert	Status
Message id	dm_fts_stable_insert.xml	Status
Transaction id	Status	Comment
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Test case id	dm_fts_unstable_stable_update	Status
Message id	dm_fts_unstable_stable_update_01.xml	Status
Transaction id	Status	Comment

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Test case id	dm_fts_stable_update		Status	
Message id	dm_fts_stable_update_01.xml		Status	
Transaction id	Status		Comment	

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Test case id	dm_fts_stable_delete	Status	
Message id	dm_fts_stable_delete_01.xml	Status	
Transaction id	Status	Comment	
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Test case id	dm_ear_stable_insert	Status	
Message id	dm_ear_stable_insert_01.xml	Status	
Transaction id	Status	Comment	
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Message id	dm_ear_stable_insert_02.xml	Status	
Transaction id	Status	Comment	
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Test case id	dm_ear_stable_update	Status	
Message id	dm_ear_stable_update_01.xml	Status	
Transaction id	Status	Comment	
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Message id	dm_ear_stable_update_03.xml	Status	
Transaction id	Status	Comment	
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Test case id	dm_ear_stable_delete	Status	
Message id	dm_ear_stable_delete_01.xml	Status	
Transaction id	Status	Comment	
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Message id	dm_ear_stable_delete_02.xml	Status	
Transaction id	Status	Comment	
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