



EESSI – CDM 4.4

ADMIN - Administrative

AD_BUC_11_Subprocess - v4.4.0

Business Exception

BUC Specifications





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Document history

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v0.1.0	14/01/2016	Initial Draft
v0.2.0	01/02/2016	Adaptations following the RINA Team comments
v0.3.0	25/07/2016	Alignment to the standard description and layout of the BUC.
v0.99.0	23/09/2016	Candidate for AC Approval 1. new layout
v0.99.1	26/09/2016	Corrections to document following AC Review
v1.0.0	19/10/2016	AC APPROVED VERSION
v1.0.1	16/11/2016	Typo corrected
v1.0.2	08/08/2017	- Included the BPMN Diagram version in section 5.
v1.0.3	19/12/2017	Clarification following Jira ticket EESSIDEV-11560: The AD_BUC_11 is not triggered on a closed existing case after an incoming X002 – Reopen Case SED; Updated section 5 to the latest BPMN Diagram version.
v4.1.0	22/08/2018	- Section 4.4 merged 2 tables (for SED & for Subprocesses) into 1 BUC Artefact table." - Version adaptations to release 4.1.0.
v4.2.0	29/05/2019	Version adaptations to release 4.2.0.
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v4.3.0	31/08/2021	Version adaptations to release 4.3.0.
v4.4.0	06/12/2024	Version adaptations to release 4.4.0



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1. Introduction

1.1. Purpose

The purpose of this document is to construct an external view of, part of, the 'EESSI business system' as described in EC Regulations 883/2004 [R1] and 987/2009 [R2]. The 'EESSI Business System' describes the business and expected business processes without consideration as to which part(s) may be realized by an IT System (i.e. the proposed EESSI IT System).

The external view comprises of models and descriptions of business use cases, the services of a business system offered to business actors: customers, business partners, or other business systems.

A business use case is described from an actor's perspective; it describes the interaction between an actor and the business system, meaning it describes the behaviours of the business system that the actor utilizes. The Business Use Case includes Use Case Diagrams and Business Process Models.

Use case diagrams show actors, business use cases, and their relationships. Use case diagrams do not describe procedures. Alternative scenarios also remain hidden. These diagrams give a good overview of the behaviours of the EESSI business system which will direct and govern part of the expected behaviours and functionality delivered by the EESSI IT System.

1.2. Scope

This document is limited to the external view of the Business Exception process. The different elements like use case description, actors, and business process as well as supporting UML diagrams and BPMN models pertaining to the Business Exception.

1.3. Definitions, Acronyms and Abbreviations

Please see the EESSI Project Glossary here

1.4. References

#	Document Type	Document Name
R1	Basic Regulations EC (883/04)	Regulation EC No. 883/2004.pdf
R2	Implementing Regulations EC (987/09)	Regulation EC No 987/2009.pdf

1.5. Overview

Chapter 1 introduces the external view on the business system under review and lists the elements of this specification.

Chapter 2 introduces us to the Business Exception business process. The chapter gives a short and detailed description as well as a reference to business process' legal base.

Chapter 3 lists the actors involved in the Business Exception business process.

Chapter 4 describes in detail the Business Exception business process based on the RUP use case template, as well as the relationship to other use cases.

Chapter 5 describes the Business Exception business process using business process modelling notation (BPMN).



2. Description

2.1. Business Scenario

In a situation where a national application receives an erroneous message (which causes an exception to occur), an exception message should be generated and sent over to the sender of the erroneous message to inform about the error(s) that has (have) occurred.

2.2. Legal Base

This Business Use Case document's legal base is described in the following Regulations

- Basic Regulation (EC) No 883/2004 [R1]
- Implementing Regulation (EC) No 987/2009 [R2]

The following matrix specifies the SEDs that are used in this Business Use Case and documents the articles that provide the legal basis for each SED.

SED	Basic Reg (883/04)	Implementing Reg (987/2009)	
	76	2(1)	2(2)
X050	√	√	√

Table 1: SED - Legal base relationship matrix

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3. Actors & Roles

This chapter captures details of the actors which are important to understand the different types of system users. An actor is anyone or anything that exchanges data with the business system. An actor can be a user, external hardware, or another system.

The overarching description of each actor described in this Business Use Case can be found in the Glossary. Below you will find a short description which provides further clarity of this actor within the context of this Business Use Case.

Actor name	Description
Triggering Participant	The triggering participant is an actor (national application) in the main process that receives an unexpected/erroneous Business Message.
Other Participant	The other participant is the actor (national application) that has sent an erroneous Business Message.



4. Use Case

4.1. RUP Table Representation

Use Case ID:	AD	_BUC_11		
Use Case Name:	Business Exception			
Created By:	EES	SSI BA Team	Last Updated By:	EESSI BA Team
Date Created:	29/	01/2016	Publication Date:	06/12/2024
Acto	rs:	Triggering Participant Other Participant(s)		
Description	on:	In a situation where a message (which cause should be created and to inform about the er. There are 2 categories - Business exces - Business	s an exception to occusent to the sender of ror(s) that has (have) of erroneous received eptions which do not receptions which do require ing a certain period be the erroneous message in might correct the property of the wrongly received mess exception does not require a walker of the property of the erroneous message in the wrongly received mess exception does not require a walker of the property of the proper	ar), an exception message the erroneous message occurred. If messages: equire a waiting period. The area waiting period waiting period. The could be followed by oblem known as a sessage is now in the right to the period: The case receives equence. As a sessage is now in the right to the period: The case receives equence area waiting period: The case receives equence are a sessage is now in the right to the period: The case receives equence are a sessage is now in the right to the period: The case receives equence are a sessage is now in the right to the period: The case receives equence are a sessage is now in the right to the period to be generated. The case receives equence are a sessage is now in the right to be generated. The case receives equence are a sessage is now in the right to be generated. The case receives equence are a sessage is now in the right to be generated. The case receives equence are a sessage is now in the right to be generated. The case receives equence are a sessage is now in the right to be generated. The case receives equence are a sessage is now in the right to be generated. The case receives equence are a sessage is now in the right to be generated. The case receives equence are a sessage is now in the right to be generated. The case receives equence are a sessage is now in the right to be generated. The case receives equence are a sessage is now in the right to be generated.



	Commission
	 If SED X002 (Reopen Case) is received on a Case which is in Closed status, a business exception will not be triggered.
	<u>Please note</u> that the other types of errors can occur (for example, receiving a wrong SED Type within a Case type, etc) and these should be blocked at the AP level¹ and will therefore not be part of this business exception BUC.
Trigger:	The Triggering Participant received a message (SED) which cannot be accepted in the national application.
Preconditions:	A participant receives an erroneous SED.
Post conditions:	The following post-conditions are possible:
	- A business exception SED (X050) has been generated and sent by the triggering participant to the other participant.
	- A business exception SED (X050) has not been generated because, before the waiting period expired, a correcting event has occurred.
Main Scenario:	 The Triggering participant receives from another Participant an erroneous SED which does not require a waiting period; The received SED does not require to wait a certain period, and so the Triggering participant fills in a Business Exception (X050) SED and specifies within the SED which is/are the reason(s) of the Business Exception; The triggering Participant sends the Business Exception (X050) SED to the other participant (the participant that has sent erroneous message); The other Participant receives the business Exception SED (X050) and understand the business error that it produced, and will be able to react accordingly based on the information provided in X050; The use case ends here.
Alternative Scenarios:	Branch 1: At [Part 1] the Triggering participant has received an erroneous SED from another participant, which does require a waiting period, which has expired.
	 The Triggering Participant waits for 24 hours After waiting for 24 hours the business situation has not been resolved through a corrective event. The Triggering Participant fills in a Business Exception (X050) SED and specifies within the SED which is/are the reason(s) of the Business Exception; The Triggering Participant sends the Business Exception (X050) SED to the other participant which has sent erroneous message; The other Participant receives the business Exception SED (X050) and understand the business error that it produced, and will be able to react accordingly; [This Branch] Ends.

 $^{^{1}}$ For a full list of AP Errors please see Part 8 of the EESSI AP Messaging Interface document delivered as part of Architecture Pack 1.0



	Branch 2: At [Branch 2, Step 2] the Triggering participant as received a correcting SED/corrective event.	
	1. [This Business Use Case] Ends.	
Exceptions:	none	
Includes:	This BUC is exclusively used as an < <include>> in other sectorial business processes.</include>	
Frequency of Use:		
Special	SR1: Active Participants are those participants defined in the	
Requirements:	<actors> section of Section 3.</actors>	
Assumptions:	N/A	
Notes and Issues:	N/A	

4.2. Request - Reply SEDs

The following table specifies the SEDs that have a logical pairing to one another, usually this is known as a request-reply pair.

REQUEST SED	REPLY SED(s)

4.3. Attachments

The following table specifies whether attachments are permitted to be included when sending a SED type.

SED	Attachments
X050	Not allowed

4.4. Artefacts used

The following table specifies the artefacts that are used in this Business Use Case.

Artefact name	Artefact type
X050	SED

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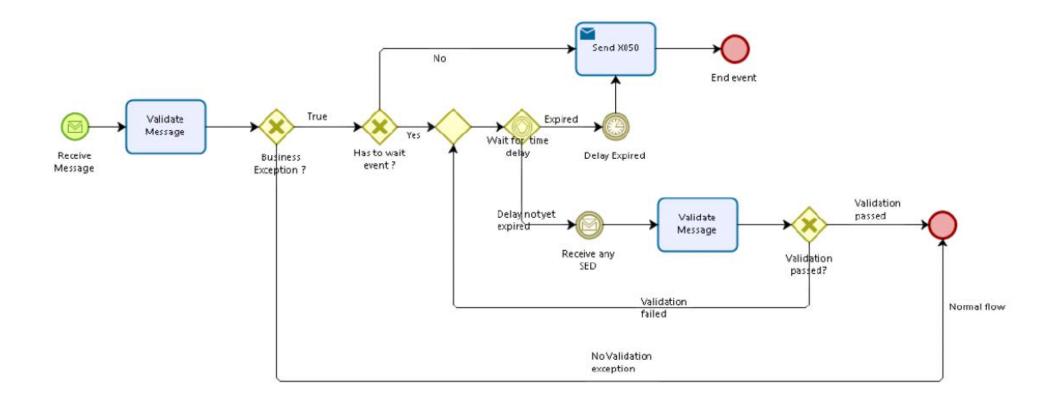


5. Business Processes

This chapter describes the Business Use Case Business Exception using BPMN 2.0.



5.1. Triggering Participant



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5.2. Other Participant

N/A

5.3. Sub Processes

N/A

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6. Appendices

6.1. Issues

N/A