EESSI – CDM 4.4

H - Horizontal

H_BUC_02_Subprocess - v4.4.0

Determine Residence

BUC Specifications

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Document history

Version	Date	Short Description of Changes
v0.1.0	19/07/2016	Initial Draft
v0.2.0	29/07/2016	Modified Main Scenario Added Branch 1 and Branch 2
v0.99.0	27/09/2016	Submitted for AC Approval
v1.0.0	21/10/2016	AC Approved Version
v1.0.1	30/06/2017	-Updated BPMN diagram in "Section 5. Business Processes" to correspond to the described process. - Adapted reference to BUC confluence page in Configuration Management
v1.0.2	03/11/2017	Updated section 4.1 RUP Table Representation: branches 3, 4 and 5 to align invalidate wording to the standard wording.
v4.1.0	24/08/2018	- 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.
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 on the horizontal sector process Determine Residence. The different elements like use case description, actors, and business process as well as supporting UML diagrams and BPMN models pertaining to the ending of a process.

1.3. Definitions, Acronyms and Abbreviations

Please see the EESSI Project Glossary here

1.4. References

#	Description	
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 Determine Residence 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 Determine Residence business process.

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

Chapter 5 describes the Determine Residence business process using business process modelling notation (BPMN).

2. Description

2.1. Business Scenario

H_BUC_02_Subprocess is a sub process that allows a Member State determine the persons residence in accordance with EU law.

2.2. Legal Base

This document's legal base is found in the following EC Regulations:

1. basic Regulation (EC) No 883/2004 [R1]
2. 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	implementing Regulation 987/2009	Basic Regulation 883/2004
	11	76
H003	√	√
H004	√	√
H005	√	√
H006	√	√

Table 1: SED – Legal base relationship matrix

3. Actors & Roles

This chapter captures details of the actors which are important to understanding 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 active participant in the main process who triggers this BUC. This will be an Institution where the main process permits their role to do so
Other Participant(s)	Other Participant(s) represents all other active participants in the main process. This will be one or more Institutions as determined by the main process.

Table 2: Actors & Roles

4. Use Case

4.1. RUP Table Representation

Use Case ID:	**H_BUC_02_Subprocess**		
Use Case Name:	Determine Residence		
Created By:	EESSI BA Team	**Last Updated By:**	EESSI BA Team
Date Created:	19/07/2016	**Publication Date:**	06/12/2024
Actors:	Triggering Participant Other Participant(s)		
Description:	H_BUC_02_Subprocess is a sub process that allows a Member State determine the persons residence in accordance with EU law.		
Trigger:	Triggering Participant requests Person Residence Information from one or more other Participant(s).		
Preconditions:	A case exists and triggers this BUC.		
Post conditions:	The Person's Residence is established.		
Main Scenario:	1. The Triggering Participant fills in a Request for Information on Residence (H005) by entering all the required Information; 2. The Triggering Participant sends the H005, including any attachments, to all other Participant (s); 3. Each other Participant (s) receives and views an H005, and attachments; 4. Each other Participant(s) fills in a Reply to Request for Information on Residence (H006) by entering all required information; 5. Each other Participant(s) sends their H006, including any attachments, to all Participants; 6. The Triggering Participant receives all (H006) replies, views them and determines the Person's Residence; **The use case ends here.**		
Alternative Scenarios:	*Branch 1: at [step1] or immediately after [step1] of the main scenario, the Triggering Participant wants to notify the State of Residence by sending H003* 1. The Triggering Participant fills in a Proposal/Notification on State of Residence (H003); 2. The Triggering Participant sends the H003 to all other Participant (s); 3. Each other Participant(s) receives, views the H003; 4. Each other Participant(s) fills in a Reply to Proposal on Residence (H004); 5. This [Branch] Ends. *Branch 2: at [step1] or immediately after [step1] of the main scenario, the Triggering Participant wants to send a Reply to*		

Proposal on State of Residence/Disagreement with decision on State of Residence by sending H004

1. The Triggering Participant fills in a Proposal on State of Residence/Disagreement with decision on State of Residence (H004);
2. The Triggering Participant sends the H004 to all other Participant (s);
3. Each other Participant(s) receives, views the H004;
4. This [Branch] Ends.

The Following Branches determine the use of Administrative Defined Processes within this Business Process

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Branch 3: after [step 5] of the main scenario, the Triggering Participant may choose to advise all recipients of their H005 SED that it is Invalid under Art 5 of 987/09

1. The Triggering Participant executes business use case **AD_BUC_06_Subprocess - Invalidate_SED;**
2. Optionally, the Triggering Participant fills in a Request for Information on Residence (H005) by entering all the required data;
3. Optionally, the Triggering Participant sends the H005, including any attachments, to all other Participant(s);
4. [This Branch] Ends.

Branch 4: after [step 9] of the main scenario, the other Participant(s) may choose to advise all recipients of their H006 SED that it is Invalid under Art 5 of 987/09

1. The other Participant executes business use case **AD_BUC_06_Subprocess - Invalidate_SED;**
2. Optionally, the other Participant fills in a Reply to Request for Information on Residence (H006) by entering all the required data;
3. Optionally, the other Participant sends the H006, including any attachments, to all Participants;
4. [This Branch] Ends.

Branch 5: At any step any participant may choose to advise the other receiving participant of their H003 SED that it is Invalid under Art 5 of 987/09.

1. The Triggering participant executes business use case **AD_BUC_06_Subprocess - Invalidate_SED;**
2. Optionally, the Triggering participant fills in a new H003 SED by entering all the required data;
3. Optionally, the Triggering participant sends the H003 SED, including any attachments, to the receiving participant(s).
4. [This Branch] Ends.

	***Branch 6**: At any step any SED has been sent, any participant which created that SED may choose to send an updated version of that SED*
	
	    1. The Triggering participant executes business use case ***AD_BUC_10_Subprocess - Update_SED;***
	    2. [This Branch] Ends.

Exceptions:	N/A
Includes:	This BUC is exclusively used as an <<include>> in other sectorial business processes.
Special Requirements:	**SR1**: Rules about the invoking of Branches: [Branch 1] – May be invoked more than once; [Branch 2] – May be invoked more than once; Administrative [Branch 3] – May be invoked more than once; [Branch 4] – May be invoked more than once; [Branch 5] – May be invoked more than once; [Branch 6] – May be invoked more than once; **SR2**: Rules about the destination for each SED Type: H003 – Must be Sent to all Active Participants; H004 - Must be Sent to all Active Participants; H005 – Must be Sent to all active Participants; H006 – Must be Sent to Requester; **SR3**: The term "Send/Sent to All Active Participants" does not include sending it himself (i.e. to then senders institution).
Assumptions:	N/A
Notes and Issues:	N/A

4.2. Request – Reply SEDs

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

REQUEST SED	REPLY SED(s)
H003	H004
H005	H006

4.3. Attachments Allowed

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

SED	Attachments
H003	Allowed
H004	Allowed
H005	Allowed
H006	Allowed

4.4. Artefacts used

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

Artefact name	Artefact type
H003	SED
H004	SED
H005	SED
H006	SED

5. Business Processes

The following model describes the Business Use Case Determine Residence subprocess using BPMN 2.0.
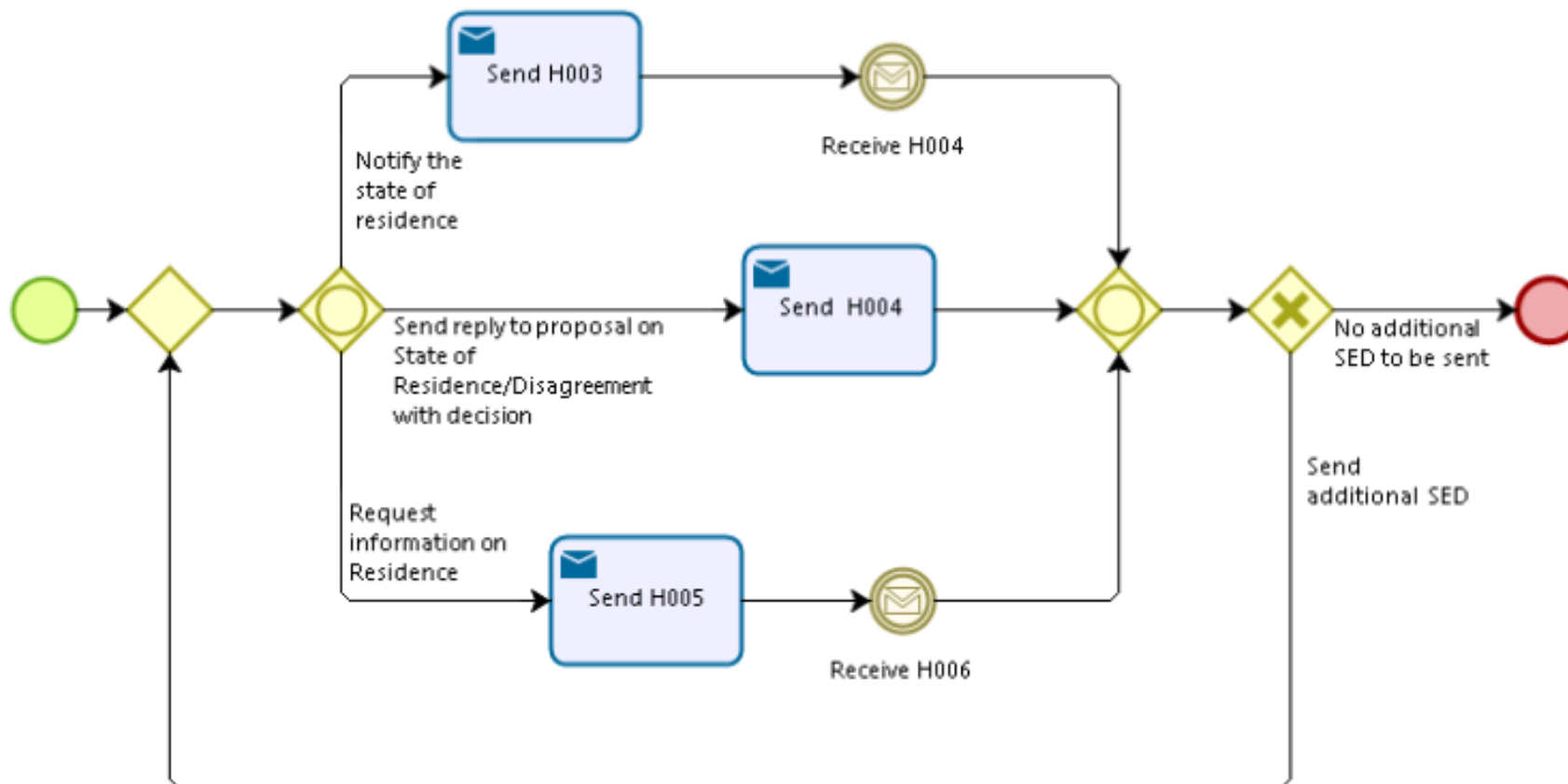
Figure 1

6. Appendices

6.1. Issues

N/A