

Erase and rectify personal data

Based on IEC 62559-2 edition 1

Generated from UML Use Case Repository with Modsarus® (EDF R&D Tool)

1. Description of the use case

1. Name of use case

Use case identification		
ID	Area(s)/Domain(s)/Zone(s)	Name of use case
	Access to data,Balance management,Market for flexibilities,Operational planning and forecasting,Services related to end customers	Erase and rectify personal data

2. Version management

Version management				
Version No.	Date	Name of author(s)	Changes	Approval status
1	2018-04-12	Kalle Kukk (Elering)		
2	2018-08-27	Mandimby Ranaivo R. (AKKA)		
3	2018-09-21	Eric Suignard (EDF)		
4	2018-10-04	Eric Suignard (EDF)	Version post WP5&9 physical meeting in Tallinn	
5	2018-10-17	Eric Suignard (EDF)	Version reviewed by WP5&9 partners	
6	2019-05-07	Eric Suignard (EDF)	WP6-7-8 demos alignment and miscellaneous changes	
7	2020-06-16	Eric Suignard (EDF)	innogy's and Elering's review	

3. Scope and objectives of use case

Scope and objectives of use case	
Scope	Erasure and rectification of personally identifiable data.
Objective(s)	Safeguard the rights of every individual to have control over their own data.
Related business case(s)	

4. Narrative of Use Case

Narrative of use case
Short description
According to data protection rules (GDPR), one has the right (unless otherwise stated in the laws) to execute control over one's data, in particular to delete or rectify them.
Complete description
The management of personal data must be in line with the GDPR guidelines. In particular, any Individual Data Owner (a physical person) has the right to delete their data or rectify them if they are inaccurate or incomplete. Personal data include consumption/generation information, meter point and master data.
Via the Data Exchange Platform (DEP), an Individual Data Owner can request the deletion or the rectification of their personal data. The DEP identifies the concerned Applications or Data Hub and forwards the request. The Application or the Data Hub checks the legitimacy of the rectification or the deletion before proceeding. Finally the Individual Data Owner is notified about the success or the failure of the operations. Moreover, proof of deletion can be provided through deletion logs.

Summary of use case

- An Individual data owner deletes their personal data

Description:

- The individual data owner requests the deletion of only a part of their personal data or the whole of them.
- The DEP forwards the deletion request to any concerned application or the data hub.
- The applications or the data hub check the legitimacy of the deletion before proceeding. They log the operations and notify the DEP.
- The DEP notifies the individual data owner about the deletion.
- Delete data
Description: The data hub proceeds to the deletion.
- Delete data
Description: The application proceeds to the deletion.
- Forward data deletion request
Description: The DEP forwards the deletion request to any concerned application or the data hub.
- Notify data deletion status
Description: The DEP notifies the individual data owner about the success or the failure of the deletion process.
- Request data deletion
Description: The individual data owner requests the deletion of only a part or the whole of their personal data.

- An individual data owner rectifies their personal data

Description:

- The individual data owner selects their personal data to rectify and provide the new content to the DEP.
- The DEP forwards the rectification request to the concerned applications or the data hub.
- The applications or the data hub check the legitimacy of the rectification before proceeding.
- The DEP notifies the individual data owner about the rectification.
- Forward rectification request
Description: The DEP forwards the rectification request to any concerned application.
- Notify rectification status
Description: The DEP notifies the individual data owner about the success or the failure of the rectification process.
- Rectify data
Description: The application proceeds to the rectification.
- Rectify data
Description: The data hub proceeds to the rectification.
- Request data rectification
Description: The individual data owner requests the rectification of their personal data by providing updated data.
The objective is to correct inaccurate data or to complete data if they are incomplete.

5. Key performance indicators (KPI)

6. Use case conditions

<i>Use case conditions</i>	
<i>Assumptions</i>	
1	The communication channel is protected
2	Cross-border effect: The personal data may be located in another country.
3	All operations are logged: The log content may be used as proof of deletion in this particular case.
<i>Prerequisites</i>	
1	The individual data owner has successfully logged in to the DEP
2	Personal data have been given or made available by their owners

7. Further information to the use case for classification/mapping

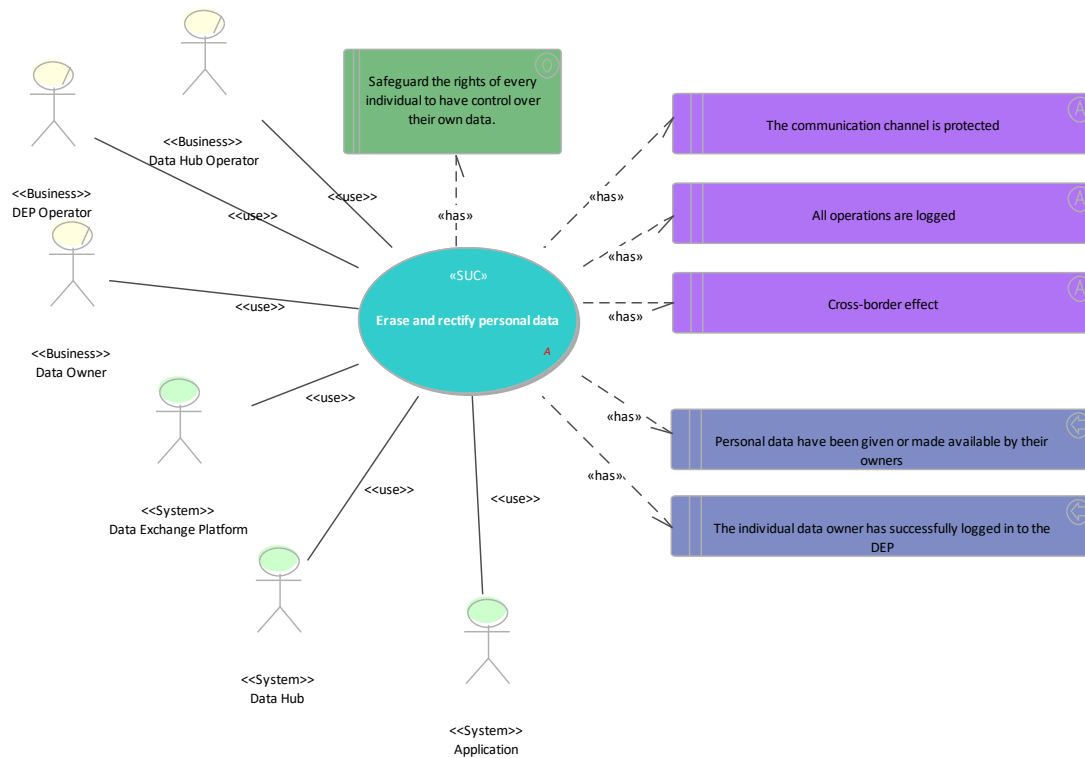
<i>Classification information</i>
<i>Relation to other use cases</i>
<i>Level of depth</i>
<i>Prioritisation</i>
<i>Generic, regional or national relation</i>
<i>Nature of the use case</i>
SUC
<i>Further keywords for classification</i>

8. General remarks

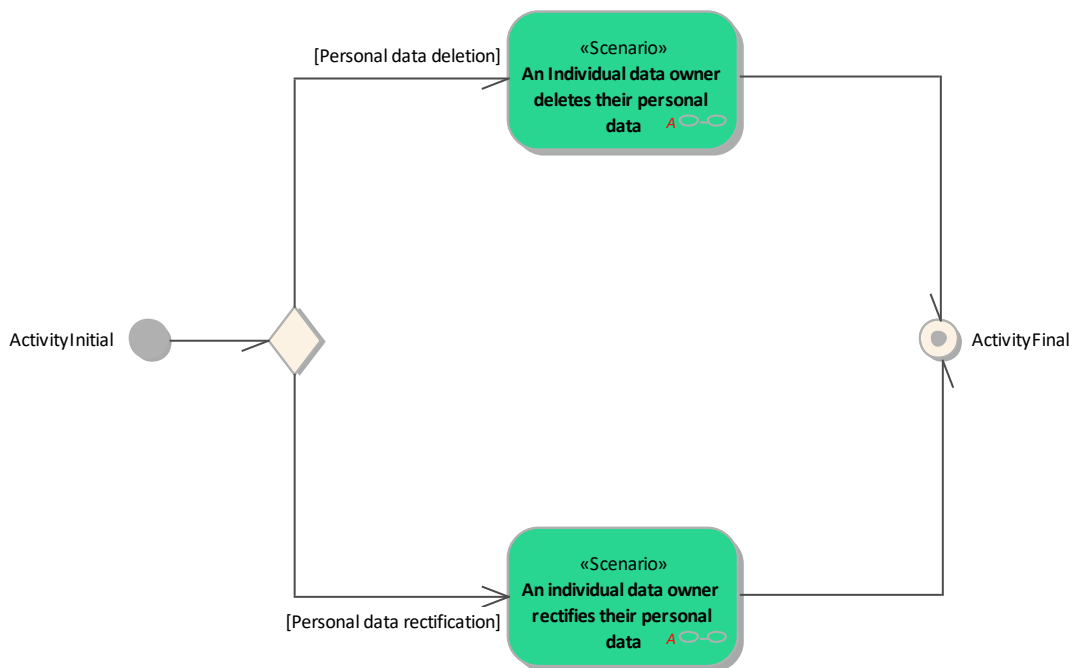
2. Diagrams of use case

<i>Diagram(s) of use case</i>

Use Case: Erase and rectify personal data - overview



Activity: Erase and rectify personal data - scenarios flowchart



3. Technical details

1. Actors

Actors			
Grouping (e.g. domains, zones)		Group description	
Actor name	Actor type	Actor description	Further information specific to this use case
Data Exchange Platform	System	Data exchange platform (DEP) is a communication platform the basic functionality of which is to secure data transfer (routing) from data providers (e.g. data hubs, flexibility service providers, TSOs, DSOs) to the data users (e.g. TSOs, DSOs, consumers, suppliers, energy service providers). DEP stores data related to its services (e.g. cryptographic hash of the data requested). The DEP does not store core energy data (e.g. meter data, grid data, market data) while these data can be stored by data hubs. Several DEPs may exist in different countries and inside one country.	
Application	System	Any kind of system connected to a Data Exchange Platform and used by a market participant who wishes to receive data.	
Data Hub	System	Data Hub is an information system which main functionality is to store and make available measurements (e.g. meter data, operational data) and associated master data. Data Hubs are not necessarily centralized in a country or in a region.	
Data Owner	Business	Any person who owns data and can give authorization to other parties to access them. Can be, inter alia: <ul style="list-style-type: none"> • Flexibility Services Provider • Market Operator • Consumer • Generator 	
Data Hub Operator	Business	Data hub operator owns and operates an information system which main functionality is to store and make available electricity (also gas, heat) metering data and associated master data. Can be : <ul style="list-style-type: none"> • Grid Data Hub Operator in the sphere of a System Operator • Market Data Hub Operator in the sphere of a Market Operator • Meter Data Hub Operator in the sphere of a Metered Data Operator • Sub-meter Data Hub Operator in the sphere of an Energy Service Provider 	
DEP Operator	Business	Data exchange platform operator owns and operates a communication system which basic functionality is data transfer.	

2. References

4. Step by step analysis of use case

1. Overview of scenarios

Scenario conditions

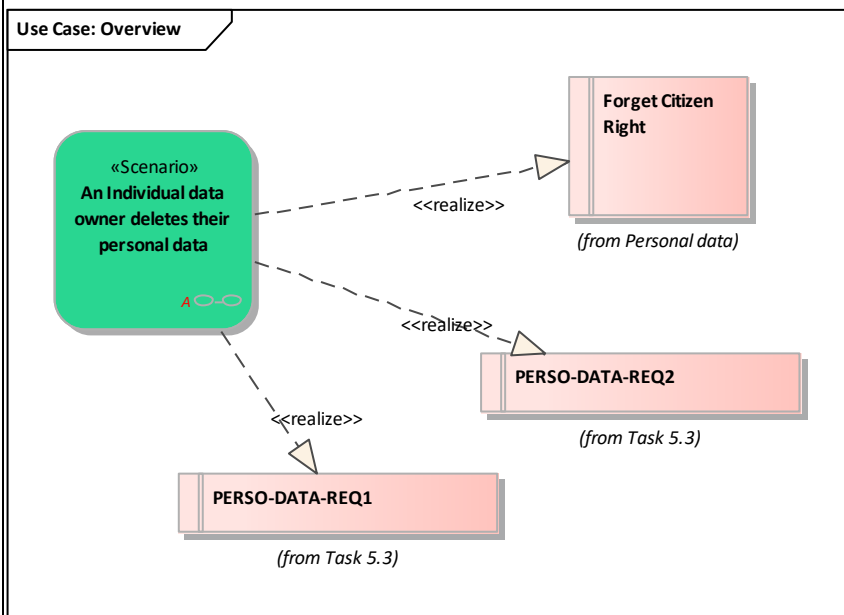
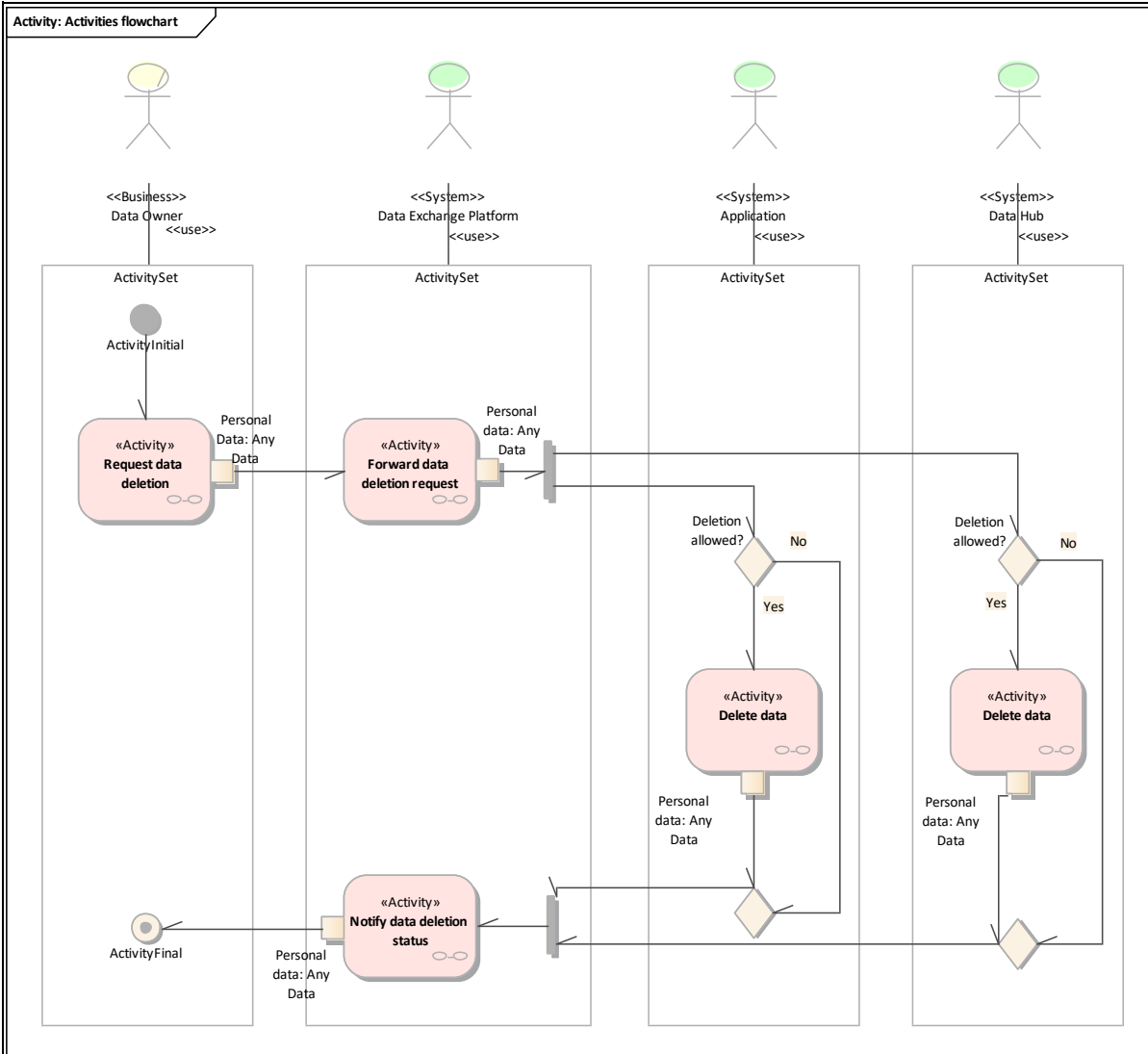
No.	Scenario name	Scenario description	Primary actor	Triggering event	Pre-condition	Post-condition
1	An Individual data owner deletes their personal data	<ul style="list-style-type: none"> The individual data owner requests the deletion of only a part of their personal data or the whole of them. The DEP forwards the deletion request to any concerned application or the data hub. The applications or the data hub check the legitimacy of the deletion before proceeding. They log the operations and notify the DEP. The DEP notifies the individual data owner about the deletion. 				
2	An individual data owner rectifies their personal data	<ul style="list-style-type: none"> The individual data owner selects their personal data to rectify and provide the new content to the DEP. The DEP forwards the rectification request to the concerned applications or the data hub. The applications or the data hub check the legitimacy of the rectification before proceeding. The DEP notifies the individual data owner about the rectification. 				

2. Steps - Scenarios

▪ An Individual data owner deletes their personal data

5. The individual data owner requests the deletion of only a part of their personal data or the whole of them.
6. The DEP forwards the deletion request to any concerned application or the data hub.
7. The applications or the data hub check the legitimacy of the deletion before proceeding. They log the operations and notify the DEP.
8. The DEP notifies the individual data owner about the deletion.

Requirement list (refer to "Requirement" section for more information)	
Requirement R-ID	Requirement name
Cat1.Reg1	Forget Citizen Right
Cat2.Reg2	PERSO-DATA-REQ2
Cat2.Reg3	PERSO-DATA-REQ1



Scenario step by step analysis

Scenario								
Scenario name		An Individual data owner deletes their personal data						
Step No	Event	Name of process/activity	Description of process/activity	Service	Information producer (actor)	Information receiver (actor)	Information exchanged (IDs)	Requirement, R-IDs
1.1		Delete data	The data hub proceeds to the deletion.		Data Hub	Data Exchange Platform	Info1-Any Data	
1.2		Delete data	The application proceeds to the deletion.		Application	Data Exchange Platform	Info1-Any Data	
1.3		Forward data deletion request	The DEP forwards the deletion request to any concerned application or the data hub.		Data Exchange Platform	Application, Data Exchange Platform, Data Hub, Data Exchange Platform	Info1-Any Data	
1.4		Notify data deletion status	The DEP notifies the individual data owner about the success or the failure of the deletion process.		Data Exchange Platform	Data Owner	Info1-Any Data	
1.5		Request data deletion	The individual data owner requests the deletion of only a part or the whole of their personal data.		Data Owner	Data Exchange Platform	Info1-Any Data	

- 1.1. Delete data

Business section: An Individual data owner deletes their personal data/Delete data

The data hub proceeds to the deletion.

Information sent:

Business object	Instance name	Instance description
Any Data	Personal data	

- 1.2. Delete data

Business section: An Individual data owner deletes their personal data/Delete data

The application proceeds to the deletion.

Information sent:

Business object	Instance name	Instance description
Any Data	Personal data	

- 1.3. Forward data deletion request

Business section: An Individual data owner deletes their personal data/Forward data deletion request

The DEP forwards the deletion request to any concerned application or the data hub.

Information sent:

<i>Business object</i>	<i>Instance name</i>	<i>Instance description</i>
Any Data	Personal data	

- 1.4. Notify data deletion status

Business section: An Individual data owner deletes their personal data/Notify data deletion status

The DEP notifies the individual data owner about the success or the failure of the deletion process.

Information sent:

<i>Business object</i>	<i>Instance name</i>	<i>Instance description</i>
Any Data	Personal data	

- 1.5. Request data deletion

Business section: An Individual data owner deletes their personal data/Request data deletion

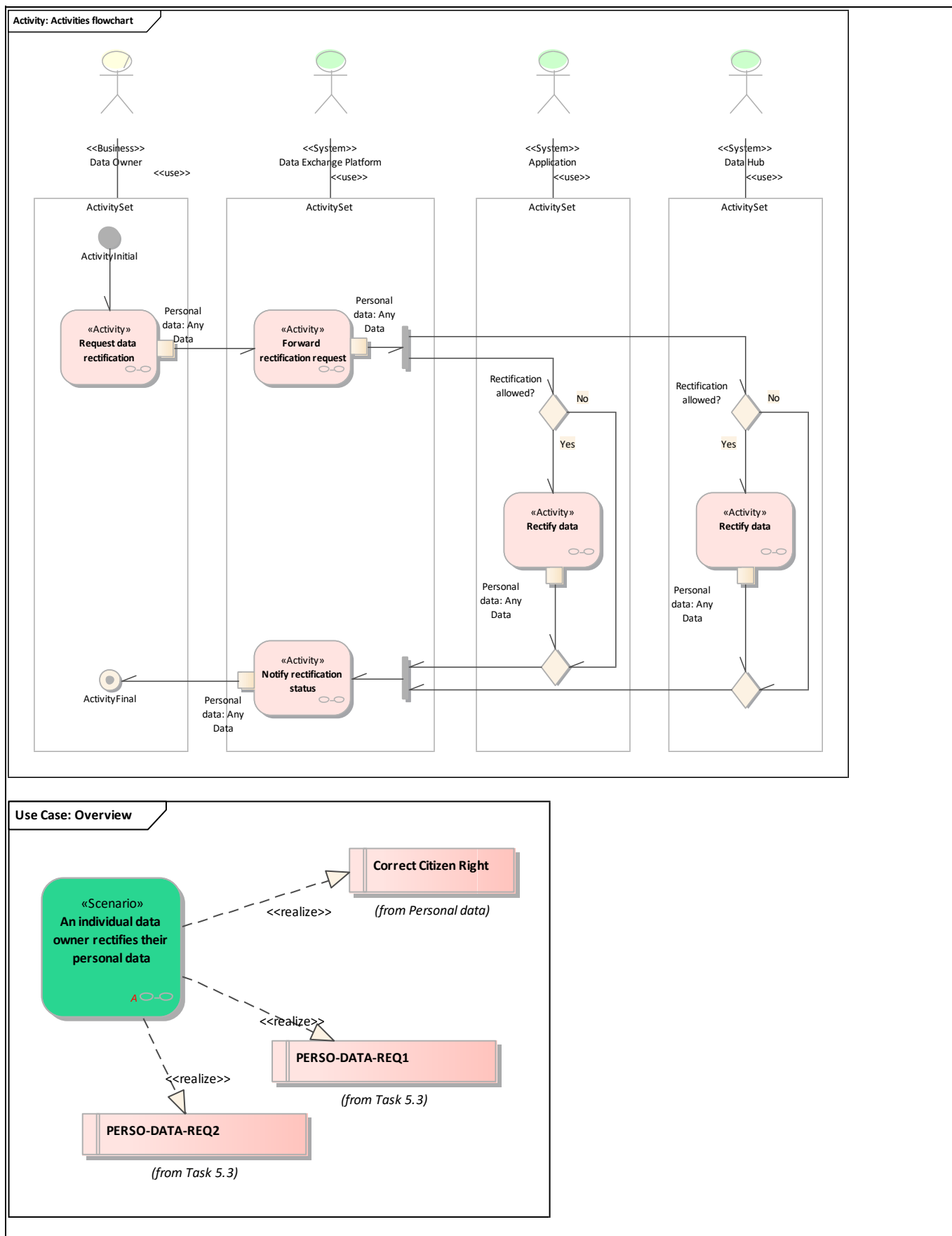
The individual data owner requests the deletion of only a part or the whole of their personal data.

Information sent:

<i>Business object</i>	<i>Instance name</i>	<i>Instance description</i>
Any Data	Personal Data	

- **An individual data owner rectifies their personal data**
 - The individual data owner selects their personal data to rectify and provide the new content to the DEP.
 - The DEP forwards the rectification request to the concerned applications or the data hub.
 - The applications or the data hub check the legitimacy of the rectification before proceeding.
 - The DEP notifies the individual data owner about the rectification.

<i>Requirement list (refer to "Requirement" section for more information)</i>	
<i>Requirement R-ID</i>	<i>Requirement name</i>
Cat1.Reg4	Correct Citizen Right
Cat2.Reg2	PERSO-DATA-REQ2
Cat2.Reg3	PERSO-DATA-REQ1



Scenario step by step analysis

Scenario								
Scenario name		An individual data owner rectifies their personal data						
Step No	Event	Name of process/activity	Description of process/activity	Service	Information producer (actor)	Information receiver (actor)	Information exchanged (IDs)	Requirement, R-IDs
2.1		Forward rectification request	The DEP forwards the rectification request to any concerned application.		Data Exchange Platform	Application, Data Exchange Platform, Data Hub, Data Exchange Platform	Info1-Any Data	
2.2		Notify rectification status	The DEP notifies the individual data owner about the success or the failure of the rectification process.		Data Exchange Platform	Data Owner	Info1-Any Data	
2.3		Rectify data	The application proceeds to the rectification.		Application	Data Exchange Platform	Info1-Any Data	
2.4		Rectify data	The data hub proceeds to the rectification.		Data Hub	Data Exchange Platform	Info1-Any Data	
2.5		Request data rectification	The individual data owner requests the rectification of their personal data by providing updated data. The objective is to correct inaccurate data or to complete data if they are incomplete.		Data Owner	Data Exchange Platform	Info1-Any Data	

- 2.1. Forward rectification request

Business section: An individual data owner rectifies their personal data/Forward rectification request

The DEP forwards the rectification request to any concerned application.

Information sent:

Business object	Instance name	Instance description
Any Data	Personal data	

- 2.2. Notify rectification status

Business section: An individual data owner rectifies their personal data/Notify rectification status

The DEP notifies the individual data owner about the success or the failure of the rectification process.

Information sent:

<i>Business object</i>	<i>Instance name</i>	<i>Instance description</i>
Any Data	Personal data	

- 2.3. Rectify data

Business section: An individual data owner rectifies their personal data/Rectify data

The application proceeds to the rectification.

Information sent:

<i>Business object</i>	<i>Instance name</i>	<i>Instance description</i>
Any Data	Personal data	

- 2.4. Rectify data

Business section: An individual data owner rectifies their personal data/Rectify data

The data hub proceeds to the rectification.

Information sent:

<i>Business object</i>	<i>Instance name</i>	<i>Instance description</i>
Any Data	Personal data	

- 2.5. Request data rectification

Business section: An individual data owner rectifies their personal data/Request data rectification

The individual data owner requests the rectification of their personal data by providing updated data.

The objective is to correct inaccurate data or to complete data if they are incomplete.

Information sent:

<i>Business object</i>	<i>Instance name</i>	<i>Instance description</i>
Any Data	Personal data	

5. Information exchanged

<i>Information exchanged</i>			
<i>Information exchanged, ID</i>	<i>Name of information</i>	<i>Description of information exchanged</i>	<i>Requirement, R-IDs</i>
Info1	Any Data		

6. Requirements (optional)

<i>Requirements (optional)</i>		
<i>Categories ID</i>	<i>Category name for requirements</i>	<i>Category description</i>
Cat1	Personal data	
<i>Requirement R-ID</i>	<i>Requirement name</i>	<i>Requirement description</i>
Req1	Forget Citizen Right	Right to request the deletion or removal of personal data where there is no compelling reason for its continued processing
Req4	Correct Citizen Right	Right to rectify data if inaccurate or incomplete
<i>Requirements (optional)</i>		
<i>Categories ID</i>	<i>Category name for requirements</i>	<i>Category description</i>

Cat2	Task 5.3	Requirements integrated from Task 5.3.
Requirement R-ID	Requirement name	Requirement description
Req2	PERSO-DATA-REQ2	Ability to share information related to rectification of personal data between data owners, concerned DEPs, applications and data sources
Req3	PERSO-DATA-REQ1	Ability to share information related to erasure of personal data between data owners, concerned DEPs, applications and data sources

7. Common terms and definitions

8. Custom information (optional)