



# Manage data logs

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

## 1.1. Name of use case

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

## 1.2. Version management

	Version management					
Version No.	Date	Name of author(s)	Changes	Approval status		
1	2018-06-01	Kalle Kukk (Elering)				
2	2018-07-10	Mandimby Ranaivo R. (AKKA)				
3	2018-08-02	Eric Suignard (EDF)				
4	2018-09-21	Eric Suignard (EDF)				
5	2018-10-04	Eric Suignard (EDF)	Version post WP5&9 physical meeting in Tallinn			
6	2018-10-17	Eric Suignard (EDF)	Version reviewed by WP5&9 partners			
7	2019-05-07	Eric Suignard (EDF)	WP6-7-8 demos alignment and miscellaneous changes			
8	2020-06-16	Eric Suignard (EDF)	innogy's and Elering's review			

## 1.3. Scope and objectives of use case

Scope and objectives of use case						
<b>Scope</b> Making available security logs including data access logs and authorization logs.						
Objective(s)	Ensure personal data protection.					
Related business case(s)						

## 1.4. Narrative of Use Case

#### Narrative of use case

Short description

Data Owner's access to data logs contributes to personal data protection. The data logs include information about data access (e.g. who has accessed consumption data and when), authorizations (e.g. who has issued a new authorization and when) and authentication (e.g. who has identified himself/herself in Customer Portal and when).

## Complete description

Via a Customer Portal, a Data Owner (e.g. electricity consumer is the owner of its consumption data) has access to data logs. They include two types of logs:

- Data access logs: e.g. who has accessed data and when
- Authorization logs: e.g. who has requested/received authorization to access data and when





• Authentication logs: e.g. who has identified himself/herself in Customer Portal and when

The Customer Portal operator makes the data logs available in the Customer Portal. In addition, in case of cross border data exchange, the Customer Portal operators of the involved countries share information about data logs between them.

## Summary of use case

Data Owner accesses data logs

<u>Description</u>: The Data Owner requests access to its data logs from the Customer Portal. In case of cross border data exchange, the later retrieves the data logs from the corresponding foreign Customer Portal. Finally, the Data Owner consults the requested data logs.

- Request data logs <u>Description</u>: The Data Owner requests data logs to the Customer Portal. The request contains the desired log type:
  - Data access (e.g. who has accessed data and when)
  - Authorization (e.g. who has requested/received authorization to access data and when)
  - o Authentication logs (e.g. who has identified himself/herself in Customer Portal and when)

It also contains selection criteria like dates, log level etc.

- Retrieve data access logs <u>Description</u>: The Customer Portal retrieves data access logs corresponding to the received selection criteria.
- Retrieve authorization logs <u>Description</u>: The Customer Portal retrieves authorization logs corresponding to the received selection criteria.
- Retrieve data access logs <u>Description</u>: The foreign Customer Portal retrieves data access logs corresponding to the received selection criteria and hands them over to the original Customer Portal.
- Retrieve authorization logs <u>Description</u>: The foreign Customer Portal retrieves authorization request logs corresponding to the received selection criteria and hands them over to the original Customer Portal.
- Consult data logs <u>Description</u>: The Data Owner receives the data log records he requested.

## 1.5. Key performance indicators (KPI)

## 1.6. Use case conditions

Use case conditions
Assumptions
1 Private and/or commercially sensitive data needs to be exchanged.
Prerequisites
1 The data owner has successfully logged in the Customer Portal.
2 Cross-border access to data logs.: Data logs can be exchanged between Customer Portals from different countries.



## 1.7. Further information to the use case for classification/mapping

Relation to other use cases

Level of depth

Prioritisation

Generic, regional or national relation

Nature of the use case

SUC

Further keywords for classification

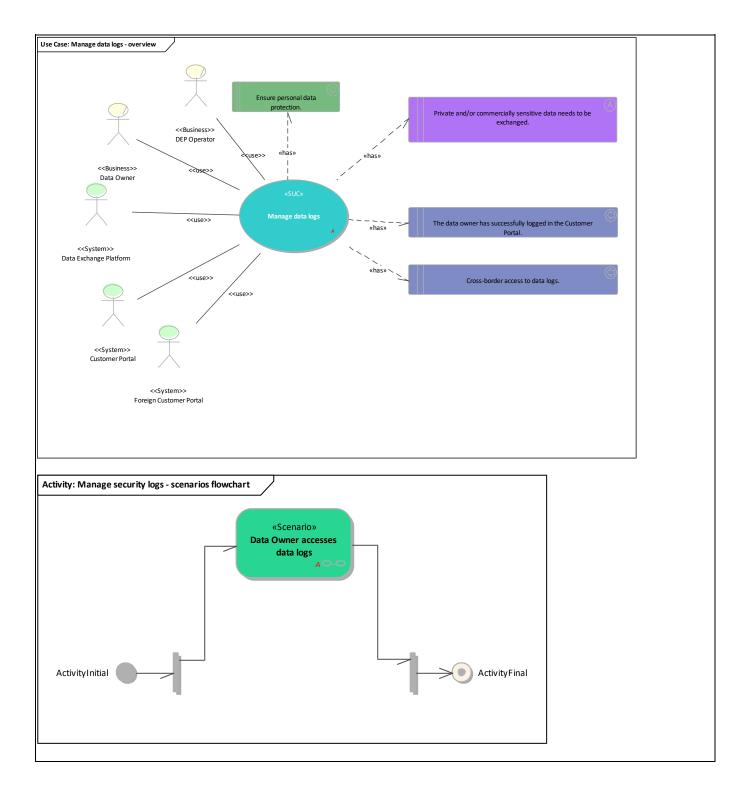
### 1.8. General remarks

## 2. Diagrams of use case

Diagram(s) of use case

**Classification information** 





## 3. Technical details

## 3.1. Actors

Actors			
Grouping (e.g. domains, zones)	Group description		



	Actor type	Actor description	Further information specific to this use case
Data Exchange Platform	System	DSOs) to the data users (e.g. TSOs, DSOs, consumers, suppliers, energy service providers). DEP stores data related to its services	The data exchange platform stores the security logs and makes them available upon request.
Foreign Customer Portal		Customer Portal for another country. Can also mean a separate portal in the same country.	
Data Owner	Business	<ul> <li>Any person who owns data and can give authorization to other parties to access them. Can be, inter alia:</li> <li>Flexibility Services Provider</li> <li>Market Operator</li> <li>Consumer</li> <li>Generator</li> </ul>	
Customer Portal	System	Customer Portal manages data users' authentication, access permissions and data logs. Customer Portals store data related to its services (e.g. authentication information, representation rights, access permissions, data logs).	
DEP Operator	Business	Data exchange platform operator owns and operates a communication system which basic functionality is data transfer.	

## 3.2. References

## 4. Step by step analysis of use case

## 4.1. Overview of scenarios

	Scenario conditions							
No.	Scenario name	Scenario description	-	Triggering event	Pre- condition	Post- condition		
1	Data Owner accesses data logs	The Data Owner requests access to its data logs from the Customer Portal. In case of cross border data exchange, the later retrieves the data logs from the corresponding foreign Customer Portal. Finally, the Data Owner consults the requested data logs.						

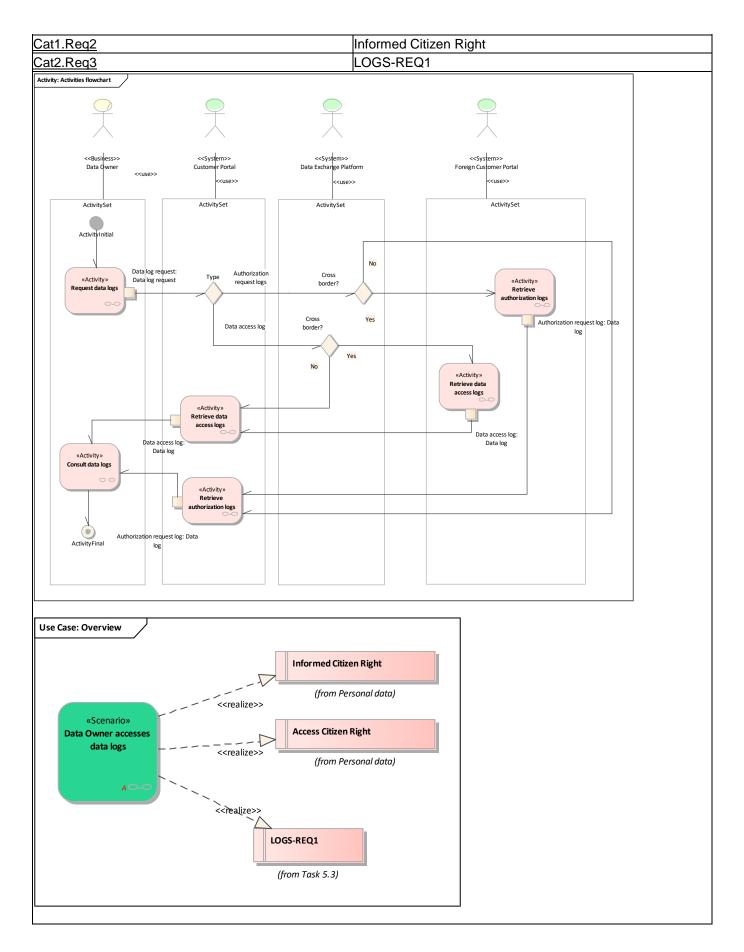
## 4.2. Steps - Scenarios

### 4.2.1. Data Owner accesses data logs

The Data Owner requests access to its data logs from the Customer Portal. In case of cross border data exchange, the later retrieves the data logs from the corresponding foreign Customer Portal. Finally, the Data Owner consults the requested data logs.

Requirement list (refer to "Requirement" section for more information)				
Requirement R-ID	Requirement name			
Cat1.Req1	Access Citizen Right			







## Scenario step by step analysis

	Scenario								
Scei nam	nario Ie	Data Owner accesses data logs							
Ste p No	Even t	Name of process/activit y	Description of process/activity	Servic e	Informatio n producer (actor)	Informatio	Informatio n exchanged (IDs)	Requirement , R-IDs	
1.1		Request data logs	<ul> <li>The Data Owner requests data logs to the Customer Portal. The request contains the desired log type:</li> <li>Data access (e.g. who has accessed data and when)</li> <li>Authorization (e.g. who has requested/receive d authorization to access data and when)</li> <li>Authentication logs (e.g. who has identified himself/herself in Customer Portal and when)</li> <li>It also contains selection criteria like dates, log level etc.</li> </ul>		<u>Data Owner</u>	<u>Foreign</u> <u>Customer</u> <u>Portal,</u> <u>Portal,</u> <u>Foreign</u> <u>Customer</u> <u>Portal,</u> <u>Customer</u> <u>Portal</u>	Info1-Data log request		
1.2		access logs	The Customer Portal retrieves data access logs corresponding to the received selection criteria.		<u>Customer</u> Portal	Data Owner	Info2-Data log		
1.3		authorization	The Customer Portal retrieves authorization logs corresponding to the received selection criteria.		<u>Customer</u> Portal	Data Owner	Info2-Data log		
1.4		Retrieve data access logs	The foreign Customer Portal retrieves data access logs corresponding to the received selection criteria and hands them over to the original Customer Portal.		<u>Foreign</u> <u>Customer</u> Portal	<u>Customer</u> Portal	Info2-Data log		
1.5			The foreign Customer Portal retrieves authorization request logs corresponding to the received selection criteria		<u>Foreign</u> <u>Customer</u> Portal	<u>Customer</u> Portal	<u>Info2-Data</u> log		



		and hands them over to the original Customer Portal.			
1.6	Consult data logs	The Data Owner receives the data log records he requested.	Data Owner		

## • 1.1. Request data logs

#### Business section: Data Owner accesses data logs/Request data logs

The Data Owner requests data logs to the Customer Portal. The request contains the desired log type:

- Data access (e.g. who has accessed data and when)
- Authorization (e.g. who has requested/received authorization to access data and when)
- Authentication logs (e.g. who has identified himself/herself in Customer Portal and when)

It also contains selection criteria like dates, log level etc. Information sent:

Business object	Instance name	Instance description
Data log request	Data log request	

### <u>1.2. Retrieve data access logs</u>

Business section: Data Owner accesses data logs/Retrieve data access logs The Customer Portal retrieves data access logs corresponding to the received selection criteria. Information sent:

Business object	Instance name	Instance description
Data log	Data access log	

## • <u>1.3. Retrieve authorization logs</u>

### Business section: Data Owner accesses data logs/Retrieve authorization logs

The Customer Portal retrieves authorization logs corresponding to the received selection criteria. Information sent:

Business object	Instance name	Instance description
Data log	Authorization request log	

• 1.4. Retrieve data access logs

#### Business section: Data Owner accesses data logs/Retrieve data access logs

The foreign Customer Portal retrieves data access logs corresponding to the received selection criteria and hands them over to the original Customer Portal. Information sent:

Business object	Instance name	Instance description
Data log	Data access log	

• <u>1.5. Retrieve authorization logs</u>

### Business section: Data Owner accesses data logs/Retrieve authorization logs

The foreign Customer Portal retrieves authorization request logs corresponding to the received selection criteria and hands them over to the original Customer Portal. Information sent:

Business object	Instance name	Instance description
Data log	Authorization request log	

## 5. Information exchanged

Information exchanged			
Information exchanged, ID	Name of information	Description of information exchanged	Requirement, R-IDs
Info1	Data log request	Contains the type of the requested logs (data access logs or authorization request logs) and other criteria like dates, log level etc.	
Info2	Data log	Contains the selected log records.	

## 6. Requirements (optional)

Requirements (optional)					
Categories ID	Category name for requirements	Category description			
Cat1	Personal data				
Requirement R-ID	Requirement name	Requirement description			
Req1		Right to secure direct access of own personal data and to any processing, storage or sharing details			
Req2		Right to be informed of any personal data held, of how it is used or processed, of any breach, and of any disclosure/usage to third parties			
	Requirements (optional)				
Categories ID	Category name for requirements	Category description			
Cat2	Task 5.3	Requirements integrated from Task 5.3.			
Requirement R-ID	Requirement name	Requirement description			
Req3	LOGS-REQ1	Ability to share information related to data logs between data owners, concerned DEPs, applications and data sources			

## 7. Common terms and definitions

## 8. Custom information (optional)