

Provide list of suppliers and ESCOs

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
	Market for flexibilities, Services related to end customers, Access to data	Provide list of suppliers and ESCOs

2. Version management

Version management				
Version No.	Date	Name of author(s)	Changes	Approval status
1	2018-04-12	Richárd Balog (Mavir)		
2	2018-07-11	Florentin Dam (AKKA)	UML modelling	
3	2018-07-19	Florentin Dam (AKKA)	Fusion of the two initial scenarios Added a new scenario	
4	2018-07-23	Florentin Dam (AKKA)	Added the detailed activities for the second scenario	
5	2018-07-25	Florentin Dam (AKKA)	Added details on the two scenarios, scope and prerequisite	
6	2018-08-02	Eric Suignard (EDF)		
7	2018-09-21	Eric Suignard (EDF)		
8	2018-10-04	Eric Suignard (EDF)	Version post WP5&9 physical meeting in Tallinn	
9	2018-10-17	Eric Suignard (EDF)	Version reviewed by WP5&9 partners	
10	2019-05-07	Eric Suignard (EDF)	WP6-7-8 demos alignment and miscellaneous changes	
11	2019-06-13	Eric Suignard (EDF)	Elering review	
12	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	Set up, store and share the list of suppliers and service providers.
Objective(s)	To make available the list of suppliers and service providers: through data exchange platform and list of aggregators through flexibility platform to make easier to get in contact for the interested parties.
Related business case(s)	

4. Narrative of Use Case

Narrative of use case

Short description	
<p>1) Set up and share the list of suppliers and service providers to be made available through a data exchange platform for the interested parties. The list is available for authorised parties who can get in contact with suppliers and service provider for any kind of business purpose.</p> <p>2) Set up and share the list of aggregators to be made available through a flexibility platform for the individual Flexibility Service Providers. Individual Flexibility Service Providers can contact the aggregators in the list and find a suitable one.</p>	
Complete description	
<p style="text-align: center;"><u>Summary of use case</u></p> <ul style="list-style-type: none"> • Registration on the Data Exchange Platform with verification <u>Description:</u> A supplier or service provider register to use data exchange platform <ul style="list-style-type: none"> ▪ Fill in a registration form <u>Description:</u> ▪ Upload necessary documents <u>Description:</u> ▪ Generate user account with all details <u>Description:</u> ▪ Send account, usage and authentication information <u>Description:</u> ▪ Send a notification of refusal to the ESCO <u>Description:</u> ▪ Send a notification of acceptance to the ESCO <u>Description:</u> ▪ Add the ESCO in the list in the DEP of its country <u>Description:</u> ▪ Add the ESCO in the list in the DEP of other countries too <u>Description:</u> ▪ Make the new Energy Service Provider accessible in the list of suppliers and ESCOs. <u>Description:</u> • Presenting the list of aggregators on flexibility platform <u>Description:</u> <ul style="list-style-type: none"> ▪ Request for being listed in the platform <u>Description:</u> ▪ Request for being listed in the platform <u>Description:</u> ▪ Review the request <u>Description:</u> ▪ Send a notification of refusal to the aggregator <u>Description:</u> 	

- Include the aggregator in the list and send notification of acceptance
Description:

5. Key performance indicators (KPI)

6. Use case conditions

<i>Use case conditions</i>	
<i>Assumptions</i>	
1	The communication channel is protected
2	Some sort of validation is applied (sending sms or email to conform the request):
3	Suppliers and ESCOs: Suppliers can be considered as kinds of ESCOs. A supplier is the party selling energy, whereas an ESCO is a provider of different energy related services.
<i>Prerequisites</i>	
1	The user has to authenticate in order to be able to see the list in the flexibility platform.

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

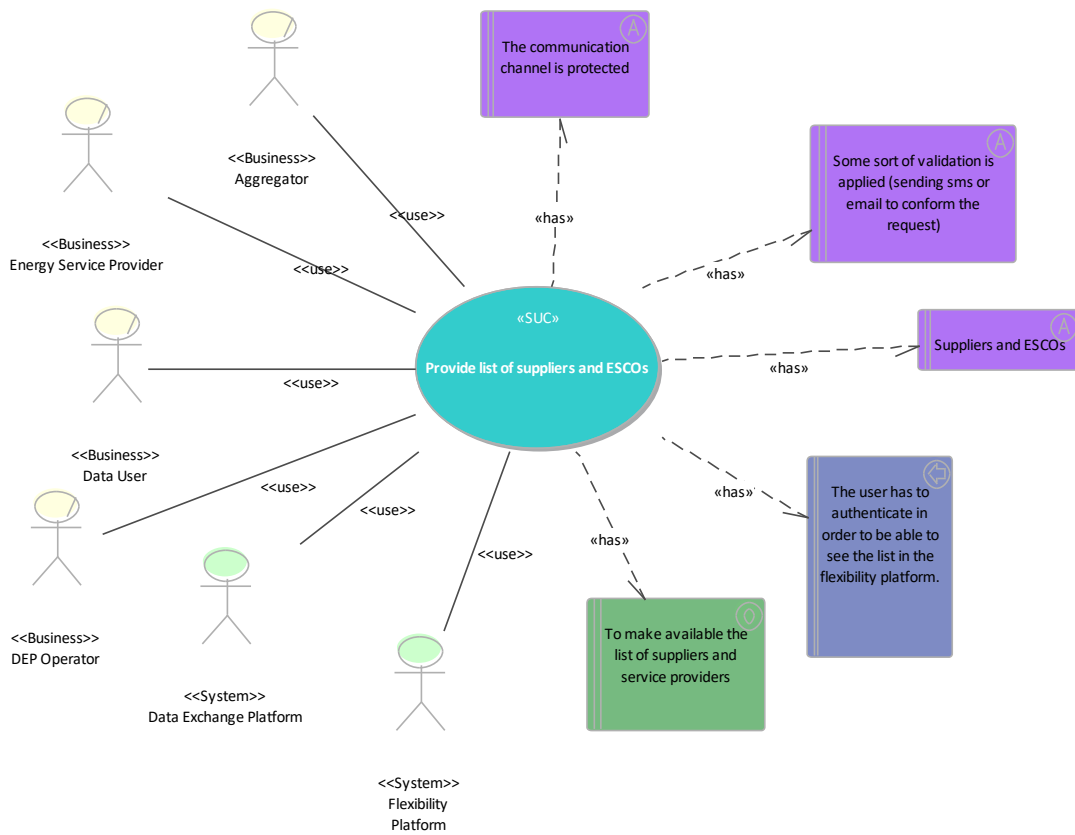
<i>Classification information</i>	
<i>Relation to other use cases</i>	
<i>Level of depth</i>	
<i>Prioritisation</i>	
<i>Generic, regional or national relation</i>	
<i>Nature of the use case</i>	
SUC	
<i>Further keywords for classification</i>	

8. General remarks

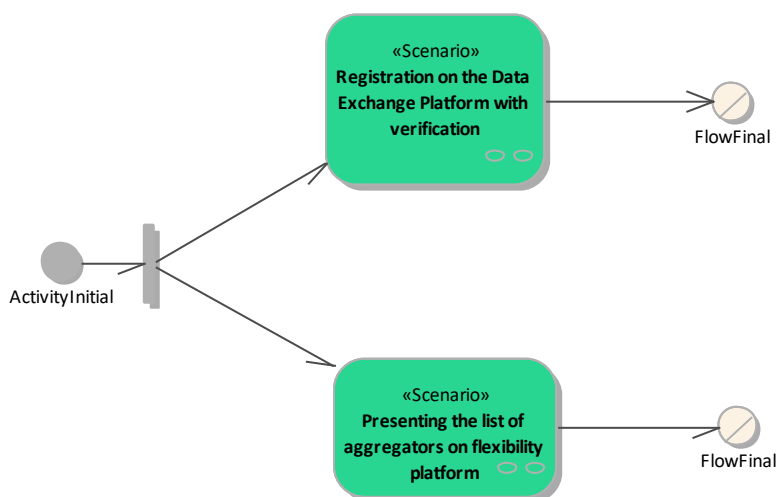
2. Diagrams of use case

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

Use Case: Provide list of suppliers and ESCOs - overview



Activity: Provide list of suppliers and ESCOs - 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.	Data exchange platform to share meter data
Aggregator	Business	Aggregate and maximise value of portfolio(s) of resources (cf. definition in T3.3 deliverable).	
Data User	Business	Any person who uses data. Can be a Data Owner or a Data Delegated Third party.	
Energy Service Provider	Business	A party offering energy-related services to any other party (adapted from ENTSOE-EFET-ebIX harmonized role model). Energy service provider (ESCO – energy service company) is a market-based role which is responsible for delivering energy services to the customers (or to other parties of behalf of the customers). In case these services necessitate the access to customer's data, the consent of this customer is required. Examples of the executors of this role include aggregator, flexibility service provider, energy efficiency provider, energy monitoring provider. Can also be an Aggregator or a Generator (cf. definitions in T3.3 deliverable).	
Flexibility Platform	System	Flexibility Platform (FP) for System Operators and Flexibility Service Providers that enables the trading of different flexibility products and services. A FP is operated by a Market Operator. Available to System Operators and Flexibility Services Providers. It is used to support the prequalification, the bidding, the activation and the verification processes, ensuring coordination between activities undertaken by several operators using the same flexible resources. Several national and regional FPs may exist.	
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

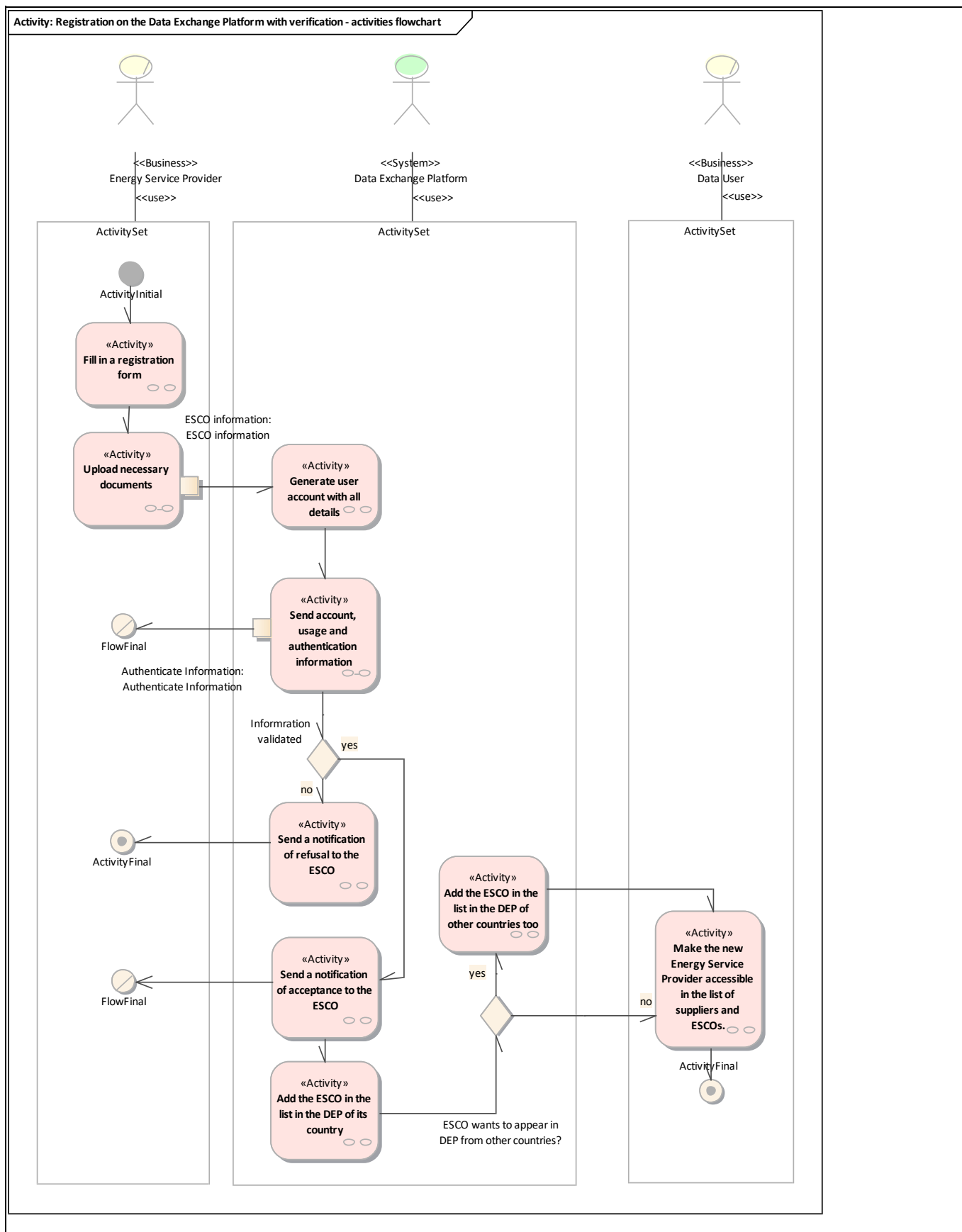
1	Registration on the Data Exchange Platform with verification	A supplier or service provider register to use data exchange platform				
2	Presenting the list of aggregators on flexibility platform					

2. Steps - Scenarios

▪ Registration on the Data Exchange Platform with verification

A supplier or service provider register to use data exchange platform

<i>Requirement list (refer to "Requirement" section for more information)</i>	
<i>Requirement R-ID</i>	<i>Requirement name</i>
Cat1.Reg1	ESCO-REQ1





Scenario step by step analysis

Scenario								
Scenario name	Registration on the Data Exchange Platform with verification							
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		Fill in a registration form			Energy Service Provider			
1.2		Upload necessary documents			Energy Service Provider	Data Exchange Platform	Info1-ESCO information	
1.3		Generate user account with all details			Data Exchange Platform			
1.4		Send account, usage and authentication information			Data Exchange Platform	Energy Service Provider	Info2-Authenticate Information	
1.5		Send a notification of refusal to the ESCO			Data Exchange Platform			
1.6		Send a notification of acceptance to the ESCO			Data Exchange Platform			
1.7		Add the ESCO in the list in the DEP of its country			Data Exchange Platform			
1.8		Add the ESCO in the list in the DEP of other countries too			Data Exchange Platform			
1.9		Make the new Energy Service			Data User			

		Provider accessible in the list of suppliers and ESCOs.						
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- 1.2. Upload necessary documents

Business section: Registration on the Data Exchange Platform with verification/Upload necessary documents

Information sent:

<i>Business object</i>	<i>Instance name</i>	<i>Instance description</i>
<u>ESCO information</u>	ESCO information	

- 1.4. Send account, usage and authentication information

Business section: Registration on the Data Exchange Platform with verification/Send account, usage and authentication information

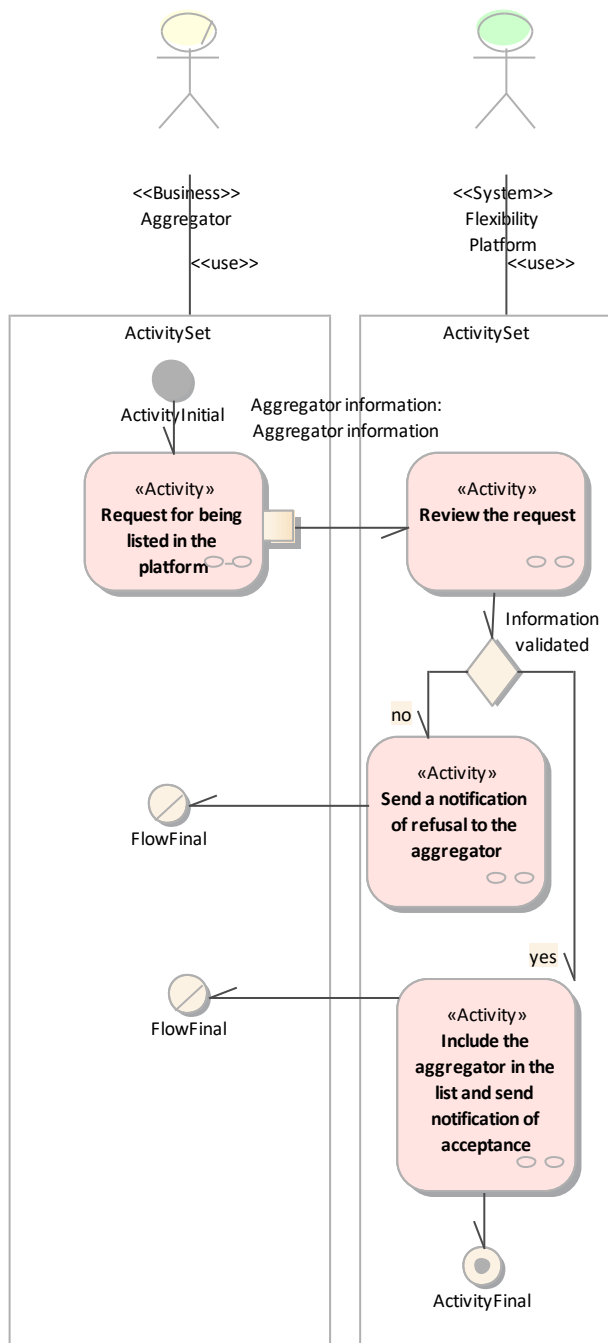
Information sent:

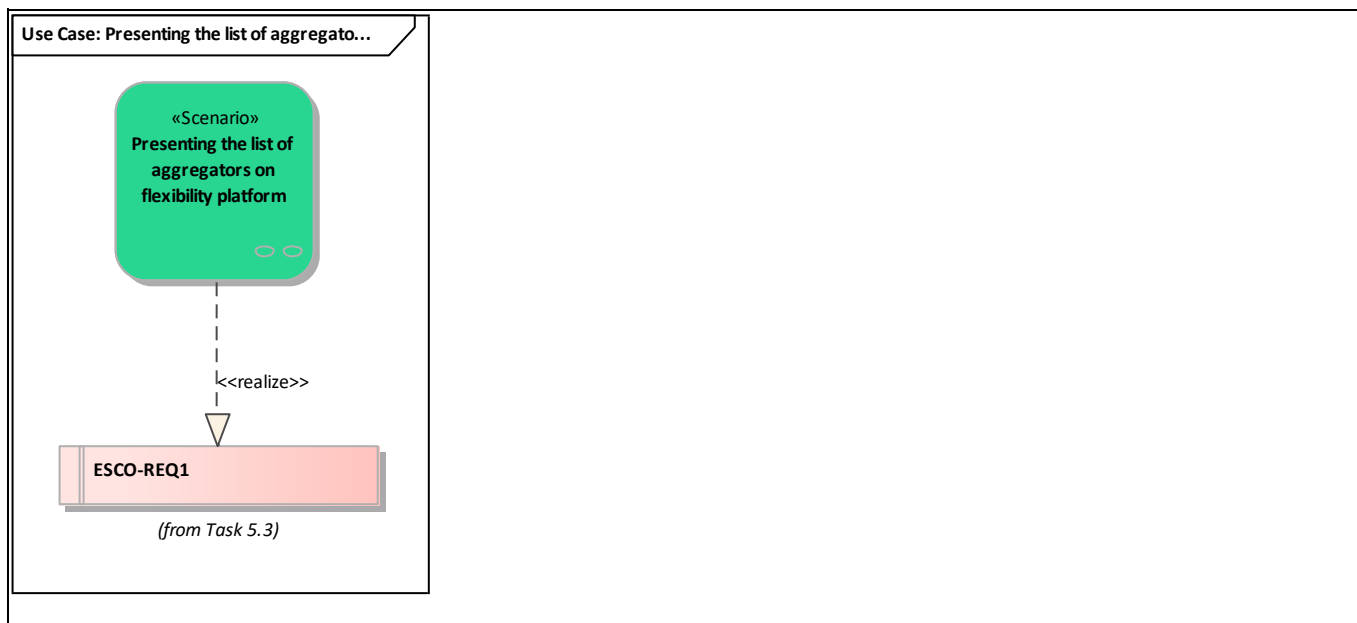
<i>Business object</i>	<i>Instance name</i>	<i>Instance description</i>
<u>Authenticate Information</u>	Authenticate Information	

- Presenting the list of aggregators on flexibility platform

<i>Requirement list (refer to "Requirement" section for more information)</i>	
<i>Requirement R-ID</i>	<i>Requirement name</i>
<u>Cat1.Reg1</u>	ESCO-REQ1

Activity: Presenting the list of aggregators on flexibility platform - activities flo...





Scenario step by step analysis

Scenario								
Scenario name		Presenting the list of aggregators on flexibility platform						
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		Request for being listed in the platform			Aggregator	Flexibility Platform	Info3-Aggregator information	
2.2		Request for being listed in the platform			Aggregator			
2.3		Review the request			Flexibility Platform			
2.4		Send a notification of refusal to the aggregator			Flexibility Platform			
2.5		Include the aggregator in the list and send notification of acceptance			Flexibility Platform			

- 2.1. Request for being listed in the platform

Business section: Presenting the list of aggregators on flexibility platform/Request for being listed in the platform

Information sent:

Business object	Instance name	Instance description
Aggregator information	Aggregator information	

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	ESCO information		
Info2	Authenticate Information		
Info3	Aggregator information		

6. Requirements (optional)

<i>Requirements (optional)</i>		
<i>Categories ID</i>	<i>Category name for requirements</i>	<i>Category description</i>
Cat1	Task 5.3	Requirements integrated from Task 5.3.
<i>Requirement R-ID</i>	<i>Requirement name</i>	<i>Requirement description</i>
Req1	ESCO-REQ1	List of suppliers and ESCOs is available through DEP; List of aggregators is available through flexibility platform additionally

7. Common terms and definitions

8. Custom information (optional)