

ANNEX 3: REQUIREMENTS**1. Functional Requirements**

FUNCTIONAL REQUIREMENT ID	FUNCTIONAL REQUIREMENT NAME	FUNCTIONAL REQUIREMENT DESCRIPTION	FUNCTIONAL REQUIREMENT RELATED TEST	RELATED BUSINESS REQUIREMENT ID	RELATED BUSINESS REQUIREMENT NAME	RELATED BUSINESS REQUIREMENT DESCRIPTION
RAD_FUR_0033	Perform Coordination Protocol validation of the Common Domain message	The Common Domain Central Services must perform coordination protocol validation of the Common Domain message.		RAD_BUS_0027	Verify the structure and the content of the Operations	The Commission must verify the structure and content of the Operations on the register of economic operators .
RAD_FUR_0001	Identify whether there are any MSAs that are registered to receive disseminations on the Operations on the Register of Economic Operators	The Common Domain Central Services must identify whether there are any MSAs that are registered to receive disseminations on the Operations on the Register of Economic Operators (IE713).		RAD_BUS_0016	Register the modification in the Central Register	The Commission must register the modification in the Central Register.
RAD_FUR_0002	Notify the MSA Central Services on the Operations on the Register of Economic Operators	The Common Domain Central Services must notify the Member State Central Services of the Operations on the Register of Economic Operators (IE713).		RAD_BUS_0011	Notify the Central ELO or liaison department of the registered modifications	The Commission must notify the central ELO or liaison department of the registered modifications.
RAD_FUR_0003	Build SEED Statistics	The Common Domain Central Services must built the SEED Statistics message (i.e. IE742).		RAD_BUS_0019	Reply by using the SEED Statistics	The Commission must reply to the Member State that made the request by using the SEED Statistics.
RAD_FUR_0004	Record SEED Statistics	The Common Domain Central Services must record the SEED Statistics message (i.e. IE742).		RAD_BUS_0019	Reply by using the SEED Statistics	The Commission must reply to the Member State that made the request by using the SEED Statistics.
RAD_FUR_0005	Notify MSA Central Services of SEED Statistics	The Common Domain Central Services must notify the MSA Central		RAD_BUS_0019	Reply by using the SEED Statistics	The Commission must reply to the Member State that made the request by using the SEED Statistics.

		Services of SEED Statistics message (i.e. IE742).				
RAD_FUR_0006	Build Operations on the Register of Economic Operators	The Common Domain Central Services must build an Operations on the Register of Economic Operators message (i.e. IE713).		RAD_BUS_0003	Extract the modifications applied to the Central Register	The Commission must extract the modifications applied to the Central Register.
RAD_FUR_0007	Record Operations on the Register of Economic Operators	The Common Domain Central Services must record the Operations on the Register of Economic Operators message (i.e. IE713).		RAD_BUS_0003	Extract the modifications applied to the Central Register	The Commission must extract the modifications applied to the Central Register.
RAD_FUR_0008	Notify MSA Central Services of Operations on the Register of Economic Operators	The Common Domain Central Services must notify the MSA Central Services of Operations on the Register of Economic Operators (i.e. IE713).		RAD_BUS_0014	Provide the Central ELO or liaison with the extract of the modifications applied to the Central Register	The Commission must provide the central ELO or liaison department with an extract of the modifications applied to the Central Register.
RAD_FUR_0010	Perform Syntactic validation of Common Domain message	The Common Domain Central Services must perform Syntactic validation of the Common Domain message.		RAD_BUS_0027	Verify the structure and the content of the Operations	The Commission must verify the structure and content of the Operations on the register of economic operators .
RAD_FUR_0012	Perform Business Compliance validation of Common Domain message	The Common Domain Central Services must perform Business Compliance validation of the Common Domain message.		RAD_BUS_0027	Verify the structure and the content of the Operations	The Commission must verify the structure and content of the Operations on the register of economic operators .
RAD_FUR_0013	Build Negative Acknowledgement of XML Receipt refusal message	The Common Domain Central Services must build the Negative Acknowledgment of XML Receipt refusal message (IE917).		RAD_BUS_0024	Specify the reason code for the refusal	The Commission must specify the reason code for the refusal.
RAD_FUR_0015	Record Negative	The Common		RAD_BUS_0024	Specify the reason code for the refusal	The Commission must specify the reason code

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	Acknowledgement of XML Receipt refusal message	Domain Central Services must record the Negative Acknowledgement of XML Receipt refusal message (IE917).				for the refusal.
RAD_FUR_0016	Register request for verifying an Excise Number	The Common Domain Central Services must register a request for verifying an Excise Number.		RAD_BUS_0021	Request the Commission for extracted details of a record	The Economic operators must request the Commission for extracted details of a record.
RAD_FUR_0017	Record request for verifying an Excise Number	SEED-on-Europa must record a request for verifying an Excise Number.		RAD_BUS_0021	Request the Commission for extracted details of a record	The Economic operators must request the Commission for extracted details of a record.
RAD_FUR_0018	Notify MSA Central Services of Negative Acknowledgement of XML Receipt refusal message	The Common Domain Central Services must notify the MSA Central Services of Negative Acknowledgement of XML Receipt refusal message (IE917).		RAD_BUS_0010	Notify the Central ELO or liaison department of the reason code for the refusal	The Commission must notify the central ELO or liaison department of the reason code for the refusal.
RAD_FUR_0019	Identify whether the Excise Number exists	The SEED-on-Europa must identify if the Excise Number exists.		RAD_BUS_0026	Validate the correspondence of the unique Excise Number submitted and the Extract of the Central Register	The Commission must validate that the unique Excise Number submitted, corresponds to an Excise Number present in the Extract of the Central Register.
RAD_FUR_0020	Record valid message	The valid message (IE701, IE713) is recorded.		RAD_BUS_0016	Register the modification in the Central Register	The Commission must register the modification in the Central Register.
RAD_FUR_0021	Identify whether the Common Domain message is an Operations on the Register of Economic Operators or a Common Request message	The Common Domain Central Services must identify whether the Common Domain message is an Operations on the Register of Economic Operators (IE713) or a Common Request message(IE701).		RAD_BUS_0024	Specify the reason code for the refusal	The Commission must specify the reason code for the refusal.
RAD_FUR_0022	Acknowledge answer no	The Requestor must acknowledge answer no for the validity of the Excise Number for the current date.		RAD_BUS_0008	Inform the Economic Operator of error on the Excise Number of the request	The Commission must inform the Economic Operator that in the request made there is no correspondence between the unique excise number submitted and the extract of the Central Register.
RAD_FUR_0023	Build Refusal of	The Common		RAD_BUS_0024	Specify the reason code for the refusal	The Commission must specify the reason code

	Common Request	Domain Central Services must build a Refusal of Common Request message (IE702).				for the refusal.
RAD_FUR_0024	Build Refusal of Update of Economic Operators message	The Common Domain Central Services must build a Refusal of Update of Economic Operators message (IE714).		RAD_BUS_0024	Specify the reason code for the refusal	The Commission must specify the reason code for the refusal.
RAD_FUR_0026	Record Refusal of Common Request	The Common Domain Central Services must record the Refusal of Common Request.		RAD_BUS_0024	Specify the reason code for the refusal	The Commission must specify the reason code for the refusal.
RAD_FUR_0027	Acknowledge answer yes along with key details of excise authorisation	The requestor must acknowledge answer yes along with key details of excise authorisation.		RAD_BUS_0013	Prepare confirmation of the validity of Excise Numbers held in Central Register	The Commission must prepare confirmation of the validity of Excise Numbers held in Central Register.
				RAD_BUS_0023	Return the extracted details	The Commission must return the extracted details of the register, containing information, considering the Economic Operator type, to the economic operator who has made the request.
RAD_FUR_0028	Notify MSA Central Services of Refusal of Common Request	The Common Domain Central Services must notify MSA Central Services of Refusal of Common Request (IE714).		RAD_BUS_0010	Notify the Central ELO or liaison department of the reason code for the refusal	The Commission must notify the central ELO or liaison department of the reason code for the refusal.
RAD_FUR_0029	Record Refusal of Update of Economic Operators message	The Common Domain Central Services must record the Refusal of Update of Economic Operators message (IE714).		RAD_BUS_0024	Specify the reason code for the refusal	The Commission must specify the reason code for the refusal.
RAD_FUR_0030	Notify MSA Central Services of Refusal of Update of Economic Operators Message	The Common Domain Central Services must notify the MSA Central Services of Refusal of Update of Economic Operators Message (IE714).		RAD_BUS_0010	Notify the Central ELO or liaison department of the reason code for the refusal	The Commission must notify the central ELO or liaison department of the reason code for the refusal.

RAD_FUR_0031	Identify whether the Excise Number is valid for the current date	SEED-on-EUROPA must identify whether the Excise Number contained in the request is valid for the current date.		RAD_BUS_0026	Validate the correspondence of the unique Excise Number submitted and the Extract of the Central Register	The Commission must validate that the unique Excise Number submitted, corresponds to an Excise Number present in the Extract of the Central Register.
RAD_FUR_0032	Acknowledge answer no	The requestor must acknowledge answer no for the Excise Number existence.		RAD_BUS_0008	Inform the Economic Operator of error on the Excise Number of the request	The Commission must inform the Economic Operator that in the request made there is no correspondence between the unique excise number submitted and the extract of the Central Register.

Table 1: Functional Requirements

2. Non-Functional Requirements

2.1. Availability Requirements

REQUIREMENT ID	REQUIREMENT NAME	REQUIREMENT DESCRIPTION	RELATED TEST
EMCS_AVA_001	Permanent Availability	<p>Description: the availability requested from these use cases is 24 hours per day, 365 days per year (24x365) with a very high average availability (99.97%). They are functions for the smooth operability and sustainability of the NEA (data management, audit trail) and the continuation of the EMCS business (fallback procedures).</p> <p>Requirements: 24 hours per day, 365 days per year.</p> <p>Average availability (percentage): 99.97% [typically 3 hours unavailability per year]</p> <p>Maximum unavailability (maximum duration of an interruption): 15 minutes at any time</p> <p>Recovery: 15 minutes</p>	
EMCS_AVA_002	High Availability	<p>Description: the availability requested from these use cases is 24 hours per day, 365 days per year (24x365) with a very high availability (99.18%). They are functions that should be permanently available, but the business is able to accept very short unavailability, in particular at night.</p> <p>Requirements: should be permanent, but the business can accept some unavailability since no immediate action is required.</p> <p>Average availability (percentage): 99,18% [typically 3 days unavailability per year]</p> <p>Maximum unavailability (maximum duration of an interruption): 1 hour at any time</p> <p>Recovery: 1 hour</p>	
EMCS_AVA_003	General Availability	<p>Description: the availability requested from these use cases is 24 hours per day, 365 days per year (24x365) with a high availability (97.0%). They are mainly core business functions that should be permanently available, but a limited unavailability would not impact the EMCS business.</p>	

		<p>Requirements: 24 hours per day, 365 days per year.</p> <p>Average availability (percentage): 97.0% [typically 11 days unavailability per year]</p> <p>Maximum unavailability (maximum duration of an interruption): 48 hours at any time</p> <p>Recovery: 48 hours</p>	
EMCS_AVA_004	Office Availability	<p>Description: these functions need to be available only during working hours, defined by each MSA.</p> <p>Requirements: working days and hours, defined by each MSA.</p> <p>Average availability (percentage): 98.8% during office hours [typically 2 hours unavailability per month]</p> <p>Maximum unavailability (maximum duration of an interruption): 30 minutes during office hours</p> <p>Recovery: A half-day</p>	
EMCS_AVA_005	Scheduled Availability	<p>Description: these functions are not necessarily activated on line, they should be submitted in batch mode in a given timeframe (e.g. at night).</p> <p>Requirements: depends on external conditions; these functions are not necessary activated on line, they are submitted eventually in batch mode in a given timeframe (e.g. at night).</p> <p>Average availability (percentage): N/A</p> <p>Maximum unavailability (maximum duration of an interruption): The function must be started during the time window</p> <p>Recovery: Up to MSA</p>	
EMCS_AVA_006	Disconnected Availability	<p>Description: these functions are performed outside the EMCS application.</p> <p>Requirements: performed outside the EMCS application.</p> <p>Average availability (percentage): Out of scope.</p>	

		Maximum unavailability (maximum duration of an interruption): Out of scope. Recovery: Out of scope.	
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Table 2: Availability Requirements

2.2. Consultation of registration data by MSA central services

REQUIREMENT ID	REQUIREMENT NAME	REQUIREMENT DESCRIPTION	RELATED TEST
EMCS_AVA_003	General Availability	<p>Description: the availability requested from these use cases is 24 hours per day, 365 days per year (24x365) with a high availability (97.0%). They are mainly core business functions that should be permanently available, but a limited unavailability would not impact the EMCS business.</p> <p>Requirements: 24 hours per day, 365 days per year.</p> <p>Average availability (percentage): 97.0% [typically 11 days unavailability per year]</p> <p>Maximum unavailability (maximum duration of an interruption): 48 hours at any time</p> <p>Recovery: 48 hours</p>	
EMCS_PERF_021	Asynchronous (for Place 'MSA')	<p>Asynchronous: the function does not require immediate return; acknowledgement and results are accepted to come back after a short delay, and be consulted afterwards</p> <p>Requirements: a few minutes</p> <p>Average Response Time: 15 minutes</p> <p>Maximum Response Time: 2 hours</p>	

Table 3: Consultation of registration data by MSA central services

2.3. Consultation of registration information by Economic Operators

REQUIREMENT ID	REQUIREMENT NAME	REQUIREMENT DESCRIPTION	RELATED TEST
EMCS_AVA_002	High Availability	Description: the availability requested from these use cases is 24 hours per day, 365 days per year (24x365) with a very high availability (99.18%). They are functions that should be permanently available, but the business is able to	

		<p>accept very short unavailability, in particular at night.</p> <p>Requirements: should be permanent, but the business can accept some unavailability since no immediate action is required.</p> <p>Average availability (percentage): 99,18% [typically 3 days unavailability per year]</p> <p>Maximum unavailability (maximum duration of an interruption): 1 hour at any time</p> <p>Recovery: 1 hour</p>	
EMCS_PERF_006	Interactive (for Place 'Any Person')	<p>Interactive: the function requires an immediate return of information.</p> <p>Requirements: a few seconds</p> <p>Average Response Time: 3 seconds</p> <p>Maximum Response Time: 30 seconds</p>	

Table 4: Consultation of registration information by Economic Operators

2.4. Dissemination of registration data

REQUIREMENT ID	REQUIREMENT NAME	REQUIREMENT DESCRIPTION	RELATED TEST
EMCS_AVA_003	General Availability	<p>Description: the availability requested from these use cases is 24 hours per day, 365 days per year (24x365) with a high availability (97.0%). They are mainly core business functions that should be permanently available, but a limited unavailability would not impact the EMCS business.</p> <p>Requirements: 24 hours per day, 365 days per year.</p> <p>Average availability (percentage): 97.0% [typically 11 days unavailability per year]</p> <p>Maximum unavailability (maximum duration of an interruption): 48 hours at any time</p> <p>Recovery: 48 hours</p>	
EMCS_PERF_019	Asynchronous (for Place 'MSA Central Services')	Asynchronous: the function does not require immediate return; acknowledgement and results are accepted to come	

		back after a short delay, and be consulted afterwards	
		Requirements: a few minutes	
		Average Response Time: 15 minutes	
		Maximum Response Time: 2 hours	

Table 5: Dissemination of registration data

2.5. Maintenance of the Central Register

REQUIREMENT ID	REQUIREMENT NAME	REQUIREMENT DESCRIPTION	RELATED TEST
EMCS_AVA_003	General Availability	<p>Description: the availability requested from these use cases is 24 hours per day, 365 days per year (24x365) with a high availability (97.0%). They are mainly core business functions that should be permanently available, but a limited unavailability would not impact the EMCS business.</p> <p>Requirements: 24 hours per day, 365 days per year.</p> <p>Average availability (percentage): 97.0% [typically 11 days unavailability per year]</p> <p>Maximum unavailability (maximum duration of an interruption): 48 hours at any time</p> <p>Recovery: 48 hours</p>	
EMCS_PERF_019	Asynchronous (for Place 'MSA Central Services')	<p>Asynchronous: the function does not require immediate return; acknowledgement and results are accepted to come back after a short delay, and be consulted afterwards</p> <p>Requirements: a few minutes</p> <p>Average Response Time: 15 minutes</p> <p>Maximum Response Time: 2 hours</p>	
EMCS_PERF_020	Asynchronous (for Place 'Common Domian Central Services')	<p>Asynchronous: the function does not require immediate return; acknowledgement and results are accepted to come back after a short delay, and be consulted afterwards</p> <p>Requirements: a few minutes</p> <p>Average Response Time: 15 minutes</p>	

		Maximum Response Time: 2 hours	
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Table 6: Maintenance of the Central Register

2.6. SEED statistics

REQUIREMENT ID	REQUIREMENT NAME	REQUIREMENT DESCRIPTION	RELATED TEST
EMCS_AVA_004	Office Availability	<p>Description: these functions need to be available only during working hours, defined by each MSA.</p> <p>Requirements: working days and hours, defined by each MSA.</p> <p>Average availability (percentage): 98.8% during office hours [typically 2 hours unavailability per month]</p> <p>Maximum unavailability (maximum duration of an interruption): 30 minutes during office hours</p> <p>Recovery: A half-day</p>	
EMCS_PERF_021	Scheduled (for Place 'MSA Central Services')	<p>Scheduled: the function is submitted in batch mode; the response must be received in a given deadline</p> <p>Requirements: predefined deadline</p> <p>Average Response Time: The function must be completed by the predefined deadline</p> <p>Maximum Response Time: The function must be completed by the deadline given in a reminder message</p>	

Table 7: SEED statistics

