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
RDM_FUR_0001	Build Operations on the Reference Database	The Common Domain Central Services must build an Operations on the Reference Database message (i.e. IE734).		RDM_BUS_0003	Register reference data modifications in Central Reference Database	The Commission must register the reference data modifications in the Central Reference Database.
				RDM_BUS_0007	Compile modifications applied to Central Reference Database	The Commission must compile the reference data modifications applied to the Central Reference Database which are to be provided to the MSA upon request.
RDM_FUR_0002	Record Operations on the Reference Database	The Common Domain Central Services must record the Operations on the Reference Database message (i.e. IE734)		RDM_BUS_0003	Register reference data modifications in Central Reference Database	The Commission must register the reference data modifications in the Central Reference Database.
				RDM_BUS_0007	Compile modifications applied to Central Reference Database	The Commission must compile the reference data modifications applied to the Central Reference Database which are to be provided to the MSA upon request.
RDM_FUR_0003	Notify MSA Central Services of Operations on the Reference Database	The Common Domain Central Services must notify the MSA Central Services of Operations on the Reference Database (i.e. IE734)		RDM_BUS_0004	Notify MSA of reference data modifications	The Commission must notify the MSAs of the reference data modifications registered in the Central Reference Database.
				RDM_BUS_0008	Provide MSA with modifications applied to Central Reference Database	The Commission must provide the MSA with the requested reference data modifications applied to the Central Reference Database.
RDM_FUR_0004	Build External List of Codes	The MSA Central Services application must build an External List of Codes message (i.e. IE733)		RDM_BUS_0010	Prepare requested list of codes	The Commission must prepare the external list of codes requested by the Economic Operator.
RDM_FUR_0005	Record External List of Codes	The MSA Central Services application		RDM_BUS_0010	Prepare requested list of codes	The Commission must prepare the external list of codes requested by the Economic Operator.

		must record the External List of Codes message (i.e. IE733)				
RDM_FUR_0006	Notify Economic Operator on the External List of Codes	The MSA Central Services application must notify the Economic Operator of External List of Codes message (i.e. IE733)		RDM_BUS_0011	Return the requested external list of codes	The Commission must return the external list of codes, containing the the up-to-date reference data, requested by the Economic Operator.
RDM_FUR_0007	Identify whether there are any MSAs that are registered to receive dissemination of operations to the reference database	The Common Domain Central Services must identify whether there are any MSAs that are registered to receive disseminations on the Operations to the Reference database (IE734).		RDM_BUS_0004	Notify MSA of reference data modifications	The Commission must notify the MSAs of the reference data modifications registered in the Central Reference Database.
RDM_FUR_0008	Register modifications to the reference database	The modifications must register to the reference data		RDM_BUS_0002	Incorporate reference data modifications into Central Reference Database	The Commission must incorporate the reference data modifications into the Central Reference Database to ensure that this database is up-to-date.
RDM_FUR_0009	Reference data modifications have to be recorded in the Central Reference Database	SEED must record the Reference data modifications in the Central Reference Database		RDM_BUS_0002	Incorporate reference data modifications into Central Reference Database	The Commission must incorporate the reference data modifications into the Central Reference Database to ensure that this database is up-to-date.

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	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). Requirements: 24 hours per day, 365 days per year. Average availability (percentage): 99.97% [typically 3 hours unavailability per year] Maximum unavailability (maximum duration of an interruption): 15 minutes at any time Recovery: 15 minutes	
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 accept very short unavailability, in particular at night. Requirements: should be permanent, but the business can accept some unavailability since no immediate action is required. Average availability (percentage): 99,18% [typically 3 days unavailability per year] Maximum unavailability (maximum duration of an interruption): 1 hour at any time Recovery: 1 hour	
EMCS_AVA_003	General Availability	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.	

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

		Maximum unavailability (maximum duration of an interruption): Out of scope. Recovery: Out of scope.	

Table 2: Availability Requirements

2.2. Consultation of public reference data by economic operators

REQUIREMENT ID	REQUIREMENT NAME	REQUIREMENT DESCRIPTION	RELATED TEST
EMCS_AVA_005	Scheduled Availability	Description: these functions are not necessarily activated on line, they should be submitted in batch mode in a given timeframe (e.g. at night). 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). Average availability (percentage): N/A Maximum unavailability (maximum duration of an interruption): The function must be started during the time window Recovery: Up to MSA	
EMCS_PERF_022	Asynchronous (for Place 'Economic Operator')	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 3: Consultation of public reference data by economic operators

2.3. Consultation of reference data by MSA central services

REQUIREMENT ID	REQUIREMENT NAME	REQUIREMENT DESCRIPTION	RELATED TEST
EMCS_AVA_004	Office Availability	Description: these functions need to be available only during working hours, defined by each MSA. Requirements: working days and hours, defined by each	

		MSA.	
		Average availability (percentage): 98.8% during office hours [typically 2 hours unavailability per month]	
		Maximum unavailability (maximum duration of an interruption): 30 minutes during office hours	
		Recovery: A half-day	
EMCS_PERF_021	Asynchronous (for Place 'MSA')	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 4: Consultation of reference data by MSA central services