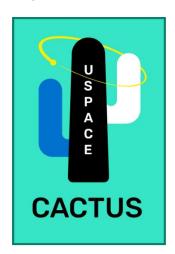
Development of an Unmanned Aerospace Test Site U-space Sandbox

Project CACTUS



Requirements and Schedule Review

May 31, 2023

Prepared by: ANRA Technologies

1. Introduction

ANRA Technologies, Inc. (ANRA), in partnership with the Tartu Science Park Foundation (TSP) are pleased to submit this document in support of the Development of an Unmanned Aerospace Test Site (U-space Sandbox). The project is called CACTUS, an acronym for "Competent Authority Coordinating Testing in U-space Sandbox." This document satisfies Deliverable 1.3 (Requirements and Schedule Review).

2. Background

The Requirements and Schedule Review document identifies the objectives, parts, volume and schedule of the procurement, and how they are satisfied by each deliverable in CACTUS. The procurement consists of two parts, Part 1 and Part 2. Each Part has its own objectives and expected results. Part 1 is related to the 'conceptual' part of the U-space sandbox (overview of the requirements for its set-up, design, feasibility, associated use cases) and roadmap for its implementation and management. Part 2 is related to the to requirements validation and its technical implementation (technical performance and operational requirements validation, procedures and use cases demonstration).

3. Schedule View

The CACTUS project plan is defined to run between May and September, 2023. The project plan is defined through Work Packages and associated tasks which in many cases will run in parallel. The adoption of this agile process will allow to perform the tasks in duly time, ensure an efficient coordination process between the different stakeholders and iterate, as necessary, the overall activities.

Part 1 includes 3 different Work Packages:

- WP1 Project Planning
- WP2 Concept and Roadmap Development
- WP3 Design Solution

Part 2 includes 3 different Work Packages:

- WP4 Build and Configure Solution
- WP5 Deploy and Test Solution
- WP6 Training

WP1 is the first Work Package to be completed, and it includes tasks related to overall project overview, RACI Matrix, Requirements and Schedule Review.

Subsequently, WP2, WP3 and WP4 will run in parallel, and completed by the end of August.

Finally WP5 and WP6 will be finalized towards the end of the project timeline.

Figure 1 identifies the project plan of the Part 1. Figure 2 identifies the project plan of the Part 2.

		CACTUS Project Plan	May				Jun				Jul			Aug			Se	еp		
lus.	Work Package	Activity	1	2	3	4 1	2	3	4	1 2	2 3	4	1	2	3 4	1 1	2	3	4	Deliverable
	1	Project Planning																		
	1.1	Kick Off Meeting														<u> </u>				
	1.2	Project RACI Matrix																		D1.2
	1.3	Requirements and Schedule Review														Ī				D1.3
	2	Concept and Roadmap Development				- 11														
	2.1	U-space Sandbox Concept																		D2.1
	2.1.1	Uspace Roles and Responsibilties																		
	2.1.2	Sandbox Concept Definition														Ī				
	2.1.3	Sandbox Financial Feasability]																	
1	2.1.4	Sandbox Regulatory Compliance																		
Part	2.2	Action plan for U-space sandbox implementation														Ι				D2.2
Ь	2.2.1	Roadmap														Ī				
	2.2.2	Objectives																		
	2.3	U-space sandbox use cases																		D2.3
	2.3.1	Stakeholder Use Case Description	I																	
	2.3.2	Stakeholder Business Models																		
	2.4	Stakeholder Workshop																		D2.4
	3	Design Solution																		
	3.1	Solution Architecture													Ī					D3.1
	3.2	Technical Design																		D3.2
	3.3	Wire Frame / Mockup	L																	

Vendor Only Deliverable
Project activity, no assigned deliverable
Vendor and Contracting Authority Deliverable

Figure 1 - Part 1 Project Plan

		CACTUS Project Plan		М	ay	I	Ju	ın			Jul			A	Jg.			Sej	э	
	Work Package	Activity	1	2	3 4	1	2	3	4	1	2 3	4	1	2	3	4	1	2 3	3 4	Deliverabl
	4	Build and Configure Solution																		
	4.1	Environment Implementation	<u> </u>																	
	4.1.1	Develop Environment Provision and Config																		
	4.1.2	Test Environment Provision and Config																		
	4.1.3	QA/Staging Environment Provision and Config																	I	
	4.1.4	Sandbox Environment Provision and Config																		
	4.1.5	Integration with External Systems		<u> </u>		<u> </u>														
	4.2	Software Implementation				<u>_</u>														
	4.2.1	(ongoing) UIX Mockups				_														
	4.2.2	(ongoing) Backlog Prioritization	ļ	ļ		ļ	ļ													
	4.2.3	Baseline System Sandbox delivery		<u></u>																
rt 2	4.2	Operations Center Integration (as needed)				L		Ш	⅃											
Pai	5	Deploy and Test Solution		,																
0.000	5.1	Cyber Security Scan	l			<u> </u>														
	5.2	Master Test and Validation Plan	1	<u> </u>		1	<u>.</u>						ļ							D5.2
	5.2.1	Simulation Testing																		
	5.2.2	Live Testing																		
	5.3	U-space Sandbox Standards and Services				Ι						I								D5.3
	5.4	U-space Sandbox Technical Performance				Ι						I								D5.4
	5.5	U-space Sandbox Certification Considerations																		D5.5
	6	Training																		
	6.1	Training Plan																		D6.1
	6.1.1	Technical Training				L							L	Ш						
	6.1.2	Operational Training																		
		nly Deliverable																		
		ctivity, no assigned deliverable and Contracting Authority Deliverable																		

Figure 2 - Part 2 Project Plan

4. Requirements View

The following spreadsheet provides an overview of the requirements of both Part 1 and Part 2, and what are the associated deliverables where the requirements will be satisfied.



Requirements and Schedule Review_(