

Traceability Matrix: Requirements to System Design Elements

drone_swarm_requirements			system_requirements			subsystem_requirements		
ID	Sections	Diagrams	ID	Sections	Diagrams	ID	Sections	Diagrams
SW-01	3.2.2 SwarmInterface 4.4.3 Initial Sectors Assigned 5.5.2 Agent ↔ SwarmInterface Communication 5.8 External Interface Architecture 6.5.2 Initialisation Events Bypassing Rumour Mill 6.8.1 Degraded Health Event	SD-17, SD-18, SD-19, SD-20,	PM-01	4 Protocol Module Architecture 5 Rumour Mill Protocol 5.4 Event Dissemination and Convergence		CON-01	4.4 Consensus Sub-module 5.2 Rumour Model 8.5 Formal Fault Tolerance Model	
SW-02	3.2.3 Agents (UAVs) 4.3 High-Level Operational Workflow 4.4.8 Agent Health Degrades 5.5.1 Agent ↔ Agent Communication 5.5.3 Pulse Mechanism 6 Rumour Mill Protocol 7 Sector Allocation Market 8 Agent Task & Role Allocation		PM-02			CON-02		
SW-03	8 Agent Task & Role Allocation		PM-03	4.3 Agent Architecture; 6 Sector Allocation Market; 7 Task \& Role Allocation		CON-03		
SW-04			PM-04			CON-04		
SW-05			PM-05			CON-05		
SW-06			PM-06			CON-06		
SW-07	3.2 UAV Platform and Flight Systems 4.2 External Components 8.3 Safety and Local Emergency Behaviour		PM-07			CON-07		
SR-02			PM-08			CON-08		
SR-03	2.3 Swarm Context 3.2 UAV Platform and Flight Systems 8.3 Pulse Safety Mechanism and Buffer Zones		PM-09			CON-09		
SR-04			PM-10			CON-10		
SR-06			PM-11			CON-11		
SR-07			PM-12			CON-12		
SR-08			PM-13			CON-13		
SR-09			PM-14			CON-14		
SR-10			PM-15			CON-15		
SR-11			PM-16			INF-01		
SR-12			PM-17			INF-02		

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SR-13			PM-18			INF-03		
SR-14			PM-19			INF-04		
SR-15			PM-20			INF-05		
SR-16			PM-21			INF-06		
SR-17			SSR-01			INF-07		
SR-18			SSR-02			INF-08		
SR-19			SSR-03			INF-09		
SR-20			SSR-04			MSG-01		
SR-21			SSR-05			MSG-02	4.6 Communication Model 5.3 Message Types 5.5 Reliability and Acknowledgement Strategy	
SR-23			SSR-06			MSG-03		
SR-24			SSR-07			MSG-04		
SR-25			SSR-08			MSG-05		
SR-05			SSR-09			MSG-06		
SR-01			SSR-10			MSG-07		
SR-22			SSR-11			MSG-08		
SR-26			SSR-12			MSG-09		
			SSR-13			MSG-10		
			SSR-14			MSG-11		
			SSR-15			MSG-12		
			SSR-16			MSG-13		
			SSR-17			MSG-14		
			SSR-18			MSG-15		
			SSR-19			MSG-16		
			SSR-20			MSG-17		
			SSR-21			MSG-18		
			SSR-22			MSG-19		
			SSR-23			MSG-20		
			SSR-24			SIS-01		
			SSR-25			SIS-02		
			SSR-26			SIS-03		
			PM-14B			SIS-04		
			PM-14C			SIS-05		

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						SIS-06		
						TAL-01		
						TAL-02		
						TAL-03		
						TAL-04		
						TAL-05		
						TAL-06		
						TAL-07		
						TAL-08		
						TAL-08A		
						TAL-09		
						TAL-10		
						TAL-11		