

PROJECT: FAQAS		PHASE: -	WP: WP1	
WP Title: Analysis and survey of mutation testing Company: SnT WP Manager: Fabrizio Pastore Start Event: KO End Event: TM1			Sheet 1 of 6 Issue Ref 1 Issue Date 2019.07.23	
Planned Date: To Planned Date: To+5M				
Inputs: <ul style="list-style-type: none"> • SoW Tasks: <ul style="list-style-type: none"> • WP1.1: Analysis and survey of mutation testing approaches [R1-1] with documented outcomes [R1-2]. <i>Leader: SnT. Participants: None.</i> Outputs: <ul style="list-style-type: none"> • D1: Analysis and survey of mutation testing 				

PROJECT: FAQAS		PHASE: -	WP: WP2	
WP Title: Study of mutation testing applicability to space software Company: SnT WP Manager: Fabrizio Pastore Start Event: TM1 End Event: TM2			Sheet 2 of 6 Issue Ref 1 IssueDate 2019.07.23	
Planned Date: To+5M Planned Date: To+10M				
Inputs: <ul style="list-style-type: none"> • D1 Tasks: <ul style="list-style-type: none"> • WP2.1: Process and case studies. • WP2.1.1: Prototype the mutation testing process [R2-1.a-f]. <i>Leader: SnT. Participants: None.</i> • WP2.1.2: Identify the case studies (opensource case studies) [R2-2.a] [R2-2.b] [R2-2.c] [R2-2.d] [R2-2.f]. <i>Leader: SnT. Participants: GSL, LXS.</i> 				

<ul style="list-style-type: none"> WP2.1.3: Identify the case studies (GSL case studies) [R2-2.a] [R2-2.b] [R2-2.c] [R2-2.d] [R2-2.f]. Leader: GSL. Participants: SnT. WP2.1.4: Identify the case studies (LXS case studies) [R2-2.a] [R2-2.b] [R2-2.c] [R2-2.d] [R2-2.f]. Leader: LXS. Participants: SnT. WP2.2: Empirical evaluation of selected techniques WP2.2.1: Evaluate mutation testing empirically [R2-3.a-e]. <i>Leader: SnT. Participants: GSL, LXS.</i> WP2.2.2: Define a simplified mutation testing tool chain [R2-2.e] [R2-4]. <i>Leader: SnT. Participants: None.</i> <p>Outputs:</p> <ul style="list-style-type: none"> D2: Study of mutation testing applicability to space software [R2-5] SW1: Benchmark including case studies and documentation. 	
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PROJECT: FAQs	PHASE: -	WP: WP3
<p>WP Title: Development of the mutation testing framework</p> <p>Company: SnT</p> <p>WP Manager: Fabrizio Pastore</p> <p>Start Event: TM2 Planned Date: T0+10M</p> <p>End Event: TM3 Planned Date: T0+20M</p>		<p>Sheet 3 of 6</p> <p>Issue Ref 1</p> <p>IssueDate 2019.07.23</p>
<p>Inputs:</p> <ul style="list-style-type: none"> D2 SW1 <p>Tasks:</p> <ul style="list-style-type: none"> WP3.1: Develop the initial prototype WP3.1.1: Develop the mutation testing toolset [R3-1.a]. <i>Leader: SnT. Participants: None.</i> WP3.1.2: Develop the test case generation toolset [R3-1.b]. <i>Leader: SnT. Participants: None.</i> WP3.2: Develop the complete prototype WP3.2.1: Develop the mutation testing toolset [R3-1.a]. <i>Leader: SnT. Participants: None.</i> WP3.2.2: Develop the test case generation toolset [R3-1.b]. <i>Leader: SnT. Participants: None.</i> WP3.3: Validation of the toolset [R3-1.c]. <i>Leader: SnT. Participants: GSL, LXS.</i> WP3.3.1: Validation of the toolset on GSL case studies [R3-1.c]. <i>Leader: GSL. Participants: SnT.</i> WP3.3.2: Validation of the toolset on LXS case studies [R3-1.c]. <i>Leader: LXS. Participants: SnT.</i> WP3.3.3: Validation of the toolset on opensource case studies [R3-1.c]. <i>Leader: SnT. Participants: None.</i> <p>Outputs:</p>		

<ul style="list-style-type: none"> • D3: Toolset documentation to conform with ECSS standards [R3-2] [R3-4]. • SW2: First version of the FAQAS framework released for TR4. Includes mutation testing and test case generation features. • SW2: The FAQAS framework. • D4: Validation of the toolset [R3-4]. 	
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PROJECT: FAQAS	PHASE: -	WP: WP4
WP Title: Evaluation of the mutation testing process and methodology definition Company: SnT WP Manager: Fabrizio Pastore Start Event: TM3 Planned Date: T0+20M End Event: TM4 Planned Date: T0+24M		Sheet 4 of 6 Issue Ref 1 IssueDate 2019.07.23
Inputs: <ul style="list-style-type: none"> • D1 • D2 • D3 • D4 Tasks: <ul style="list-style-type: none"> • WP4.1: Definition of the mutation testing methodology [R4-2.a] [R4-2.b]. <i>Leader: SnT. Participants: None.</i> • WP4.2: Evaluation of the mutation testing methodology and the FAQAS framework [R4-1]. <i>Leader: SnT. Participants: GSL,LXS.</i> • WP4.2.1: Evaluation of the mutation testing methodology and the FAQAS framework on GSL case studies [R4-1]. <i>Leader: GSL. Participants: SnT.</i> • WP4.2.2: Evaluation of the mutation testing methodology and the FAQAS framework on LXS case studies [R4-1]. <i>Leader: LXS. Participants: SnT.</i> • WP4.2.3: Evaluation of the mutation testing methodology and the FAQAS framework on opensource case studies [R4-1]. <i>Leader: SnT. Participants: None.</i> • WP4.3: Dissemination [R4-2.c] [R4-3] [R4-4]. <i>Leader: SnT. Participants: GSL, LXS.</i> Outputs: <ul style="list-style-type: none"> • D5: Evaluation of the mutation testing process and methodology definition [R4-5] [R4-6]. • Generic GSTP work package: TDP, AB, BR, TAS, FP, ESR, FR, CCD, PWP [R4-5] [R4-6]. 		

PROJECT: FAQAS	PHASE: -	WP: WP5
WP Title: Maintenance and improvement of the toolset		Sheet 5 of 6

Company: SnT WP Manager: Fabrizio Pastore Start Event: TM5 End Event: TM6	Planned Date: T0+24M Planned Date: T0+36M	Issue Ref 1 IssueDate 2019.07.23
Inputs: <ul style="list-style-type: none"> SW2 Tasks: <ul style="list-style-type: none"> WP5.1: Maintenance of the FAQAS framework [R5-1] [R5-2]. <i>Leader: SnT. Participants: None.</i> WP5.2: User training [R5-3]. <i>Leader: SnT. Participants: None.</i> Outputs: <ul style="list-style-type: none"> D6: Maintenance and improvement of the toolset [R5-4] Updated SW2: FAQAS framework after maintenance. [R5-5] 		

PROJECT: FAQAS	PHASE: -	WP: WP6
WP Title: Activity management Company: SnT WP Manager: Fabrizio Pastore Start Event: KO End Event: TM6	Planned Date: T0+0M Planned Date: T0+36M	Sheet 6 of 6 Issue Ref 1 IssueDate 2019.07.23
Inputs: <ul style="list-style-type: none"> SoW Tasks: <ul style="list-style-type: none"> WP6.1 Coordination of the activities and Team management. WP6.2 Interface to ESA and sub-contractor management. WP6.3 Project plan setup and maintenance. WP6.4 Supervision and management of Action Items. WP6.5 Organization of meetings and teleconferences. WP6.6 Documentation management and progress reporting Outputs: None		