

Appendix A – Deliverables associated to Milestones

Milestone	Deliverable	Time when provided ¹
1	<p>Technical Note M1: Report on Scientific Background</p> <p>This report summarizes the scientific outcome of the studies performed in Work Packages 1, 3, 4, 5, 6, 7, 8.</p>	$T_0^2 + 6$ months
	<p>List of Collaborators (<i>posted on the project web site</i>)</p> <p>The List of Collaborators documents the names and institutes of the scientists collaborating to the project.</p>	$T_0 + 6$ months
	<p>Vision Document</p> <p>The Vision defines the view of the product to be developed, specified in terms of the key needs and features. Containing an outline of the envisioned core requirements, it provides the basis for the more detailed technical requirements.</p>	$T_0 + 6$ months
2	<p>User Requirements Document (<i>initial version</i>)</p> <p>The URD documents the system's intended functions and the related constraints it is subject to. The User Requirements are specified according to the PSS-05 standard.</p>	$T_0 + 7$ months
	<p>Traceability Map of User Requirements (<i>initial version</i>)</p> <p>The Traceability Map documents the links through User Requirements, items in the Design Model, Source Code units, Tests and User Documentation.</p>	$T_0 + 7$ months
	<p>Technical Note M2: Report on the initial phase of the activity</p> <p>This report summarizes the activity, the status of the project and the results (plots, tables) achieved at Milestone 2.</p>	$T_0 + 7$ months
3	<p>User Requirements Document (<i>updated version</i>)</p> <p>The URD documents the system's intended functions and the related constraints it is subject to. The User Requirements are specified according to the PSS-05 standard. The deliverable at this milestone is an updated version with respect to the previous milestone, according to an iterative and incremental software process model.</p>	$T_0 + 2$ years
	<p>Software Architecture Document (<i>initial version</i>)</p> <p>The Software Architecture Document provides a comprehensive architectural overview of the system.</p>	$T_0 + 2$ years
	<p>Design Model, including Software Specification Document (<i>initial version</i>)</p> <p>The Design Model is an object model describing the realization of user requirements; it is a comprehensive, composite artifact encompassing design classes, subsystems, packages, collaborations, and the relationships between them. The Design Model is expressed in UML.</p>	$T_0 + 2$ years
	<p>Test Plan, equivalent to Software Validation and Verification Plan (<i>initial version</i>)</p> <p>The Test Plan documents the objectives of testing within the scope of the project, the items being targeted, the approach taken and the deliverables produced.</p>	$T_0 + 2$ years

¹ Please note that preliminary versions of the deliverables will be continuously available throughout the project in the Geant4 software repository; the time stated in this table corresponds to the delivery to ESA of an intermediate or final tagged version of the work product.

² T_0 defines the date of start of the contract, defined by the signature of the contract by both parties.

	<p>Prototype Source Code (<i>1st iteration</i>) The Source Code consists of C++ header files and implementation files.</p>	T ₀ + 2 years
	<p>User Documentation, including Software User Manual (<i>initial version</i>) The User Documentation consists of a manual to teach the user how to install and use the software.</p>	T ₀ + 2 years
	<p>Traceability map of User Requirements (<i>updated version</i>) The Traceability Map documents the links through User Requirements, items in the Design Model, Source Code units, Tests and User Documentation. The deliverable at this milestone is an updated version with respect to the previous milestone, according to an iterative and incremental software process model.</p>	T ₀ + 2 years
	<p>Technical Note M3: Report with preliminary results This report summarizes the activity, the status of the project and the results (plots, tables) achieved at Milestone 3.</p>	T ₀ + 2 years
4	<p>User Requirements Document (<i>updated version</i>) The URD documents the system's intended functions and the related constraints it is subject to. The User Requirements are specified according to the PSS-05 standard. The deliverable at this milestone is an updated version with respect to the previous milestone, according to an iterative and incremental software process model.</p>	T ₀ + 3 years
	<p>Software Architecture Document (<i>updated version</i>) The Software Architecture Document provides a comprehensive architectural overview of the system. The deliverable at this milestone is an updated version with respect to the previous milestone, according to an iterative and incremental software process model.</p>	T ₀ + 3 years
	<p>Design Model, including Software Specification Document (<i>updated version</i>) The Design Model is an object model describing the realization of user requirements; it is a comprehensive, composite artifact encompassing design classes, subsystems, packages, collaborations, and the relationships between them. The Design Model is expressed in UML. The deliverable at this milestone is an updated version with respect to the previous milestone, according to an iterative and incremental software process model.</p>	T ₀ + 3 years
	<p>Test Plan, equivalent to Software Validation and Verification Plan (<i>updated version</i>) The Test Plan documents the objectives of testing within the scope of the project, the items being targeted, the approach taken and the deliverables produced. The deliverable at this milestone is an updated version with respect to the previous milestone, according to an iterative and incremental software process model.</p>	T ₀ + 3 years
	<p>Source Code (<i>2nd iteration</i>) The Source Code consists of C++ header files and implementation files. The deliverable at this milestone is an updated version with respect to the previous milestone, according to an iterative and incremental software process model.</p>	T ₀ + 3 years
	<p>User Documentation, including Software User Manual (<i>updated version</i>) The User Documentation consists of a manual to teach the user how to install and use the software. The deliverable at this milestone is an updated version with respect to the previous milestone, according to an iterative and incremental software process model.</p>	T ₀ + 3 years

	<p>Traceability map of User Requirements (<i>updated version</i>)</p> <p>The Traceability Map documents the links through User Requirements, items in the Design Model, Source Code units, Tests and User Documentation. The deliverable at this milestone is an updated version with respect to the previous milestone, according to an iterative and incremental software process model.</p>	T ₀ + 3 years
	<p>Technical Note M4: Report with intermediate results</p> <p>This report summarizes the activity, the status of the project and the results (plots, tables) achieved at Milestone 4.</p>	T ₀ + 3 years
5	<p>User Requirements Document (<i>updated version</i>)</p> <p>The URD documents the system's intended functions and the related constraints it is subject to. The User Requirements are specified according to the PSS-05 standard. The deliverable at this milestone is an updated version with respect to the previous milestone, according to an iterative and incremental software process model.</p>	T ₀ + 4 years
	<p>Software Architecture Document (<i>final version</i>)</p> <p>The Software Architecture Document provides a comprehensive architectural overview of the system. The deliverable at this milestone is an updated version with respect to the previous milestone, according to an iterative and incremental software process model.</p>	T ₀ + 4 years
	<p>Design Model, including Software Specification Document (<i>final version</i>)</p> <p>The Design Model is an object model describing the realization of user requirements; it is a comprehensive, composite artifact encompassing design classes, subsystems, packages, collaborations, and the relationships between them. The Design Model is expressed in UML. The deliverable at this milestone is an updated version with respect to the previous milestone, according to an iterative and incremental software process model.</p>	T ₀ + 4 years
	<p>Test Plan, equivalent to Software Validation and Verification Plan (<i>final version</i>)</p> <p>The Test Plan documents the objectives of testing within the scope of the project, the items being targeted, the approach taken and the deliverables produced. The deliverable at this milestone is an updated version with respect to the previous milestone, according to an iterative and incremental software process model.</p>	T ₀ + 4 years
	<p>Source Code (<i>final version</i>)</p> <p>The Source Code consists of C++ header files and implementation files. The deliverable at this milestone is an updated version with respect to the previous milestone, according to an iterative and incremental software process model.</p>	T ₀ + 4 years
	<p>User Documentation, including Software User Manual (<i>final version</i>)</p> <p>The User Documentation consists of a manual to teach the user how to install and use the software. The deliverable at this milestone is an updated version with respect to the previous milestone, according to an iterative and incremental software process model.</p>	T ₀ + 4 years
	<p>Traceability map of User Requirements (<i>final version</i>)</p> <p>The Traceability Map documents the links through User Requirements, items in the Design Model, Source Code units, Tests and User Documentation. The deliverable at this milestone is an updated version with respect to the previous milestone, according to an iterative and incremental software process model.</p>	T ₀ + 4 years
	<p>Final Report on the activity</p> <p>This report summarizes the overall activity and the final status and results of the project.</p>	T ₀ + 4 years