

TABLE OF CONTENTS

1	Identification	3
1.1	Document overview	3
1.2	Abbreviations and Glossary	3
1.2.1	Abbreviations	3
1.2.2	Glossary	3
1.3	References	3
1.3.1	Project References	3
1.3.2	Standard and regulatory References	3
1.4	Conventions	4
2	Software Development Activities	4
2.1	Software development process	4
2.1.1	Overview of process phases	4
2.1.2	End of phases reviews	5
2.1.3	Technical documentation	5
2.1.4	Deliverables:	5
2.2	Software development tools	5
2.2.1	Workstation	5
2.2.2	Requirements management and documentation	6
2.2.3	Software Design	6
2.2.4	Coding and automated tests	6
2.2.5	Configuration management	6
2.2.6	Obsolescence management	6
2.3	Software development rules and standards	6
3	Development Process Phases	6
3.1	Software Specifications (sub section sample)	7
3.1.1	Input data	7

Software Development Plan

Doc #

Version: 01

Page 2 / 9

3.1.2	Content	7
3.1.3	Output data	7
3.1.4	Review and acceptance criteria	7
4	Responsibilities	8
4.1	Activities and responsibilities	8
4.2	Documentation of Activities and responsibilities	8

1 Identification

This document amplifies the “§5 Software development management” of the Project Management Plan.

If you instantiate this document, leave empty the §5 in the Project Management Plan and add a reference to this doc.

1.1 Document overview

This document contains the software development plan of software XXX.

1.2 Abbreviations and Glossary

1.2.1 Abbreviations

Add here abbreviations

1.2.2 Glossary

Add here words definitions

1.3 References

1.3.1 Project References

#	Document Identifier	Document Title
[R1]	ID	Add your documents references. One line per document

1.3.2 Standard and regulatory References

#	Document Identifier	Document Title
[STD1]	ID	Add your standards references. One line per document

1.4 Conventions

Typographical convention.

Any other convention.

2 Software Development Activities

The section list and describes the software development activities of xxx software development project.

2.1 Software development process

The software development process chosen for the project is the waterfall/SCRUM/Extreme programming model (choose yours).

The waterfall/SCRUM/Extreme programming model was chosen for the reasons below: add justification.

2.1.1 Overview of process phases

You may describe your phases in §2.2.x of project management plan or here.

This document is more technical than project management plan so you may describe your phases with more technical information.

The lifecycle of the software development project is composed of (describe yours):

- Software specification,
- Software detailed design,
- Software coding and unit tests,
- Software integration
- Software verification tests

2.1.2 End of phases reviews

You may describe your phases in §2.2.x of project management plan or here.

This document is more technical than project management plan so you may describe your phases with more technical information.

The phases of the lifecycle are ended by the following reviews (describe yours):

- Software specification: software specification review,
- Software detailed design: software detailed design review,
- Software coding and unit tests: automated tests review,
- Software integration: integration test review,
- Software verification tests, final verification test review.

The planning of phases and reviews is given below OR is in the project management plan.

2.1.3 Technical documentation

The following documentation is produced during the design phases:

- Software specification: SRS, IRS, STP,
- Software detailed conception: updated SRS, SDD, IDD, updated STP, STD
- Coding and unit tests: STR of unit tests
- Software tests phases : STR, VDD.

2.1.4 Deliverables:

The following items are delivered at the end of the process:

- Technical documentation,
- User documentation: user guide, administration procedures and installation procedure,
- Software and its configuration files.

2.2 Software development tools

2.2.1 Workstation

Describe the typical Workstation used for development

2.2.2 Requirements management and documentation

Describe tools used to write and manage requirements : Doors ...

2.2.3 Software Design

Describe tools used for software design :

- Rational Rose, Together J,

2.2.4 Coding and automated tests

Describe tools used for coding and automated tests.

- Eclipse + list of plugins or VS2010 + list of plugins
- Purify, boundschecker,

2.2.5 Configuration management

Describe tools used for configuration management and bugs management :

- Svn, git,
- Bugzilla, track, redmine ...

2.2.6 Obsolescence management

Describe how you manage the obsolescence of software development tools :

- Either you update them when a new version comes up
- Or you stick to a version during the developpement and maintenance.

Explain you choice.

2.3 Software development rules and standards

Describe here the standards and rules used for software development, like modelling (UML), data modelling, coding rules, ...

Coding rules are sometimes worth a separate document.

3 Development Process Phases

You may describe your phases in §2.2.x of project management plan or here.

Software Development Plan		
Doc #	Version: 01	Page 7 / 9

This document is more technical than the project management plan, so you may describe your phases with more technical information.

Add subsections which detail the phases listed in §2.1.1 Overview of process phases

3.1 Software Specifications (sub section sample)

3.1.1 Input data

List input data : clinical data, risk analysis, design history ...

3.1.2 Content

The goal of this phase is to write the software requirements with the following (but not exclusive) specifications:

- Functional requirements, performances, physical characteristics, environment conditions in which the software will run,
- Safety requirements including those about the exploitation and maintenance methods, the influence on the environment, the risks analysis,
- Ergonomics requirements, including manual operations, man-machine interactions, human factors,
- User documentation,
- Exploitation by end users.

3.1.3 Output data

List output data : SRS, IRS, STP ...

3.1.4 Review and acceptation criteria

This phase ends with a software specifications review:

- Participants: ...
- Data reviewed: ...

The results of this phase shall be verified with the following criteria:

- Requirements traceability,
- Coherence with external systems,
- Internal coherence,
- Testability,
- Feasibility of software detailed conception,
- Feasibility of exploitation and maintenance.

4 Responsibilities

Very important, don't skip it !

4.1 Activities and responsibilities

Each activity has someone responsible, mandatory. For small teams, may be always the same person.

Activity	Responsibility	Service/Department	Comment
Project management	Project Manager	Foo	
Configuration tools management	Configuration Manager	Bar	
Setting up the Development tools	Configuration Manager	Bar	
Software specifications	Product champion	Foo	

4.2 Documentation of Activities and responsibilities

The person responsible for writing a document is not necessarily the person responsible for the activity. Generally, the last approves what the first did. For small teams, tech control and approval may be the same person.

Software Development Plan

Doc #

Version: 01

Page 9 / 9

Activities	Document name	Elaboration	Technical Control	Approval
Project management	Project Management Plan	See management plan	See management plan	See management plan
Configuration tools management	Software configuration management plan	Configuration Manager	Project manager	Project manager
Setting up the Development tools	Software development plan	Configuration Manager	Project manager	Project manager
Software specifications	SRS	Product champion	Project manager	Project manager