



Test Management Part 1

Test Documentation

Objective



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Identify the
different types of
test
documentation

IEEE Test Documents

| See IEEE STD-829
IEEE Standard for
Software Test
Documentation

| Templates are provided
for:

- Test plan
- ✓ - Test case
- ✓ - Test Incident Report
- ✓ - Test Summary Report
- ✓ - Other test documentation

Test Case

Traceability

| Test case
specification identifier

| Test items

– References to documents
used to produce test

| Input specifications ✓

| Output specifications

*configuration
"state"*

| Environment for
executing tests ✓

| Special test procedures
to follow

| Intercase dependencies

T₁ T₇ T₁₀



Test Incident Report

| Test incident report
identifier

| Summary

STR

✓
Repeatable

| Incident description

- Inputs
- Expected results
- Actual results
- Date and time
- Environment
- Attempts to repeat

| Impact

Test Incident Reports

| Must be carefully written

| Target audience includes:

- Programmers
- Other testers
- Managers ?
- Quality Assurance ?
- CCC Board ?

| Must provide enough information for each viewer to do their job

Developer Mentality

| Testers must understand what it is like to work as a programmer

- Complex tasks
- Vague and changing requirements

| Most developers are specialized in a part of the system

- Testers are generalists
- Testers must help developers understand the big picture

|| context

Severity vs Priority

| Testers need to recognize the difference between severity and priority

| Severity reflects the customer impact of the error

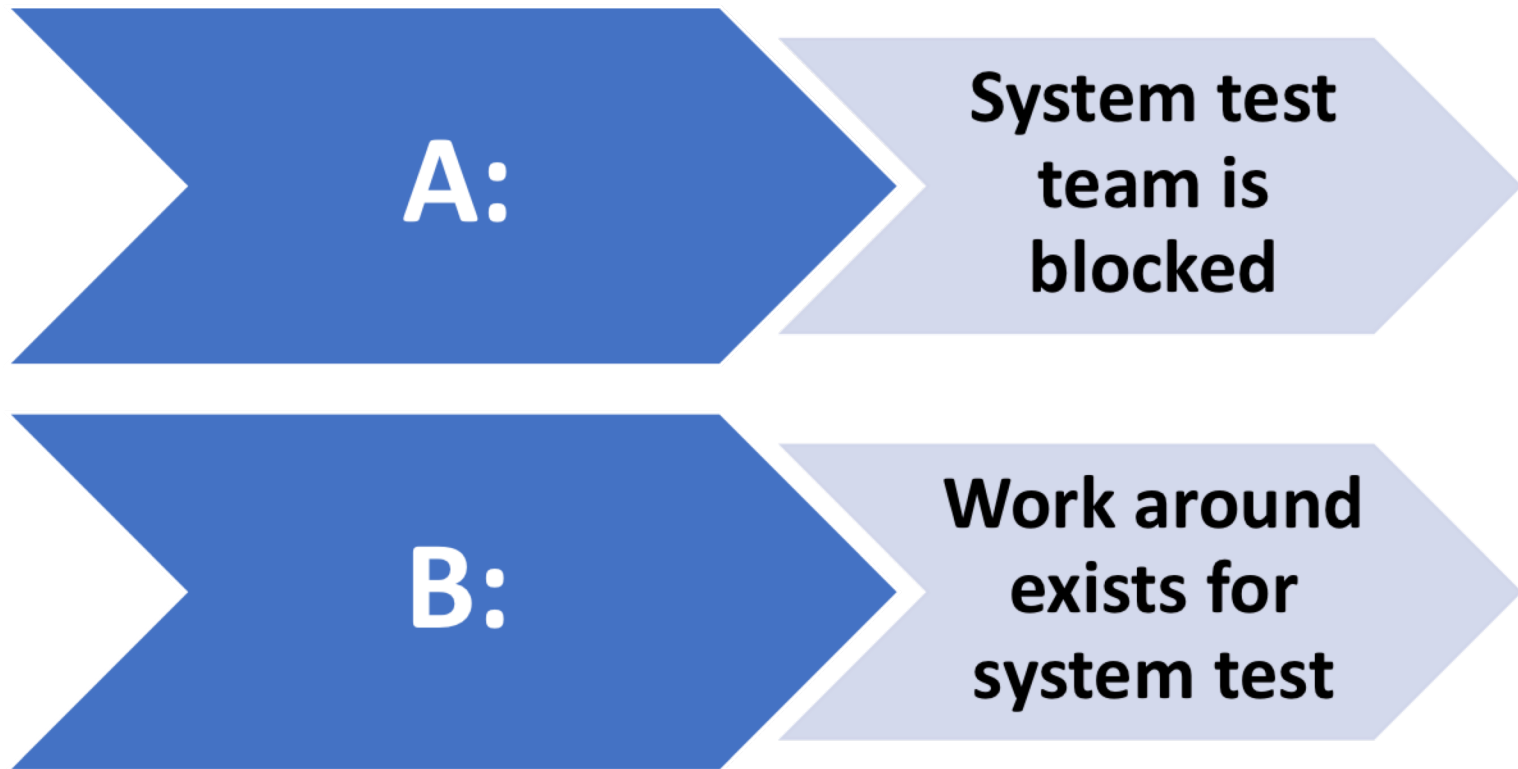
| Priority reflects project considerations

| Not all high severity errors are high priority

| Not all high priority errors are high severity



System Test Problem Priorities



Review Defect Reports?











| To save time, some organizations have bug reports reviewed by another tester

| Review criteria include:

- Completeness ✓
- Repeatability ✓
- Clarity ✓
- Severity evaluation

Test Summary Report



-  **Summary of what was tested** 
-  **Variances** 
-  **Comprehensive assessment** 
-  **Summary of results** 
-  **Evaluation** 

Test Documentation

| Agile development methods have forced rethinking of documentation requirements



| Level and formality of test documentation must be based on:

- How will documentation support the testing activity
- Is documentation a deliverable
- Are their regulatory concerns
- Will documentation support tracking activities
- Support for regression testing

Summary

