

**SUBJECT: SOFTWARE TESTING AND
QUALITY ASSURANCE
TOPIC : BLACK BOX TESTING
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BLACK BOX TESTING

BLACK BOX TESTING

- ◉ Black box testing is done without the knowledge of the internals of the system under test
- ◉ It doesn't require examining of code of a program
- ◉ Tester only knows about set of inputs and expected outputs and un aware of how those inputs are transformed into outputs by software

WHY BLACK BOX TESTING??

- ◉ Black box testing is done based on requirements : it helps in identifying any incomplete, inconsistent requirements
- ◉ Black box testing addresses the stated requirements as well as implied requirements
- ◉ Black box testing encompasses the end user perspective
- ◉ Black box testing handles valid and invalid inputs

WHEN TO DO BLACK BOX TESTING

- ◉ Black box testing activities require involvement of testing team from the beginning of software project life cycle. Test scenarios and test data are prepared during the test construction phase of test life cycle.

HOW TO DO BLACK BOX TESTING

Various techniques to be used to generate test scenarios for effective black box testing are

- ⦿ Requirements based testing
- ⦿ Positive and negative testing
- ⦿ Boundary value analysis
- ⦿ Decision tables
- ⦿ Equivalence partitioning



- ◉ State based testing
- ◉ Compatibility testing
- ◉ User documentation testing
- ◉ Domain testing

