

## Annex B - Purposes of Testing

Category	Types of Testing	Purpose of Testing
Verification & Validation (Static Testing)	Early Testing	To assess the traceability of user requirement, the testability of the software and to detect defects before going into implementation
Verification & Validation (Dynamic Testing) - Functional Testing	Accessibility Testing	To determine whether the software can be operated by users who have specific accessibility requirements
	Backup/Recovery Testing	To determine if, in the event of failure, the software can be restored from backup
	Compatibility Testing	To determine whether the software is compatible with other software operating in the same environment
	Conversion Testing	To determine whether data that is being transferred from an existing software to a new software is done so in a way that meet users requirement
	Disaster Recovery Testing	To determine if, in the event of failure, the software can be restarted and brought back to a known or saved state
	Functional Testing	To determine whether the functional requirements of the software have been met
	Interoperability Testing	To determine whether two or more software in the same environment can interact as required
Verification & Validation (Dynamic Testing) - Technical Testing	Installability Testing	To determine whether a software can be installed as required in all specified environments
	Maintainability Testing	To determine whether the software can be maintained using an acceptable amount of effort
	Portability Testing	To determine whether the software functions correctly when it is transferred from one environment to another

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Category	Types of Testing	Purpose of Testing
Verification & Validation (Dynamic Testing) - Technical Testing	Procedure Testing	To determine whether procedural instructions meet user requirements and support the purpose of their use
	Reliability Testing	To determine how reliable the software is when it is used under various reliability conditions
	Security Testing	To determine whether the software (including data) is secure and can only be accessed by authorized users
	Stability Testing	To determine whether the software continues to function correctly when it is modified
	Usability Testing	To determine whether the software can be used according to its usability requirements
Verification & Validation (Dynamic Testing) - Technical Testing : Related to Performance	Performance Testing	To assess the performance of the software when it is placed under a "typical" load
	Load Testing	To assess the performance of the software when it is placed under specifically increasing loads, usually from low usage conditions, through to typical and peak load conditions
	Stress Testing	To assess the performance of the software when it is pushed beyond its anticipated peak load, to determine how it behaves under extreme load
	Endurance /Soak Testing	To assess whether the software can sustain the required load for a continuous period of time
	Volume Testing	To assess the performance of the software when it is processing specified levels of data
	Capacity/Scalability Testing	To assess how the software will perform under conditions that may need to be supported in future
	Memory Management Testing	To assess how the software will perform in terms of the amount of memory used, the type of memory and/or the defined levels of memory leakage experience during testing