

In-project storage standards

Technical Implementation	Level	Pros and Cons
Single server, hard disk, or storage device with no duplication or backup.	Below minimum standard	All data will be lost if corruption or failure occurs.
Single server or storage device with RAID setup (disk mirroring or striping with parity) but with no backup.	Below minimum standard	Data protected from single disk failure but larger failure or corruption will still result in data loss.
Server, hard disk, or storage device mirrored to a separate system but with no backup.	Below minimum standard	Data protected from component or system failure but data deleted or corrupted will not be recoverable.
Single server, hard disk, or storage device with periodic backup arrangements in place.	Bare minimum	Access to the data and changes since the last backup will be lost but can be restored once failed components are replaced.
Server or storage device with RAID setup (disk mirroring or striping with parity) with backup arrangements in place.	Recommended minimum (Basic IS costed offering)	Data protected from component failure with ability to restore from tape for data that was deleted or corrupted but downtime would be required for a system fault.
Server, hard disk, or storage device mirrored to a separate system (at alternative location) with periodic backup arrangements in place.	Acceptable approach	Data protected from component or system failure with ability to restore from tape for data that was deleted or corrupted.
Server or storage device with RAID setup (disk mirroring or striping with parity), mirrored to a separate system (at alternative location) but with no backup in place.	Acceptable with snapshotting	Data protected from component or system failure but data deleted or corrupted will not be recoverable. For this approach to be viable thought must be made to how a deleted or corrupted items can be recovered, possibly using snapshotting technology.
Server or storage device with RAID setup (disk mirroring or striping with parity), mirrored to a separate system (at alternative location) with periodic backup arrangements in place.	Recommended approach (Standard IS costed offering)	Ideal approach but obviously the most expensive to implement. Data protected from component and system failures with ability to restore from tape for data that was deleted or corrupted.