

BitKeeper and ClearCase Feature Comparison

Feature	BK/Pro	ClearCase	Benefit
Atomic ChangeSets	Yes	No	<ul style="list-style-type: none"> • Every change is a reproducible snap shot • Aids in debugging and release management
Graphical checkin tool	Yes	Yes	<ul style="list-style-type: none"> • Graphical tool for file and changeset checkins which promotes more useful comments to speed up development processes and debugging
Dynamic branching	Yes	No	<ul style="list-style-type: none"> • Any workspace can be turned into a branch • Advanced planning for branching is unneeded
Pro Merge Technology	Yes	No	<ul style="list-style-type: none"> • Most accurate automerge available • Only merge each change once
Accurate handling of renames	Yes	Yes	<ul style="list-style-type: none"> • Increased productivity through a well organized source base
Peer to peer architecture	Yes	No	<ul style="list-style-type: none"> • Supports any workflow for enhanced quality control • Supports the rapid open source style of development
Complete local history	Yes	No	<ul style="list-style-type: none"> • Your developers can keep working even when your server or network doesn't • Inherent reliability through replication
True parallel development	Yes, trivial	Yes, complex	<ul style="list-style-type: none"> • Enhanced productivity • Faster time to market
Multi-site development	Yes, included	Yes, add on	<ul style="list-style-type: none"> • BitKeeper provides 100% functionality and productivity at all distributed sites • ClearCase's add on is a high cost, high admin band-aid to decentralize a centralized system
Mobile/Off-network functionality	Yes	No	<ul style="list-style-type: none"> • Increased development productivity by allowing your developers to work while traveling, while at remote locations, while at customer sites, or without a network
Dynamic Licensing	Yes	No	<ul style="list-style-type: none"> • Provides developers the flexibility of checking in from any host or domain • Read-only users can access data without tying up a license • Developers never have to wait for a license to become available
Pre-event triggers	Yes	Yes	<ul style="list-style-type: none"> • Ability to qualify events prior to changes which enhances compliance to your development policies
Post-event triggers	Yes	Yes	<ul style="list-style-type: none"> • Supports notification of events and automated secondary operations which provides easier process management
Replicated repositories	Yes	Limited, with multisite	<ul style="list-style-type: none"> • Provides enhanced reliability along with the ability to perform transparent, automatic backups • ClearCase provides a multi site add on which does replicate the repository data, but with a very high admin overhead
Automatic integrity checks	Yes	No	<ul style="list-style-type: none"> • Detects corruptions indicating potential hardware and software problems saving time and money associated with unplanned downtime
Accurate recording of all history	Yes	No	<ul style="list-style-type: none"> • Accountability: Easy to find Who did What When • Provides a complete picture of your parallel development • Speeds up debugging process
Minimal Administration	Yes	No	<ul style="list-style-type: none"> • Convert at least one headcount from every development site from administrator to developer • Saves the cost of one full time admin at every development site
Minimal hardware requirements	Yes	No	<ul style="list-style-type: none"> • No need to purchase additional hardware • No requirement for large, expensive server