Track Changes Designer UI Reference

See recent changes across your solution.

Reference **Solution** **DevOps** Track Changes | Git

Track Changes Designer UI (Reference): Features for logging and tracking engineering solution changes, including Recent Changes, Version Control, Cross-Reference, Use Count, and Unused Objects for audit trails and impact analysis.

Access: Track Changes (in Solution Explorer)

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Navigation Pages

Page	Purpose	Primary Use	TableType
Recent Changes	Change log with configurable persistence	Audit trail and navigation	RecentChanges
Version Control	Table version tracking	Online configuration sync	VersionControl
Cross-Reference	Object usage locations	Impact analysis	CrossReference
Use Count	Usage frequency	Resource optimization	UseCount
Unused Objects	Unreferenced objects	Cleanup candidates	UnusedObjects

Multi-machine attribution: the `UserComputer` column captures the host where each change was authored. In distributed engineering — multiple engineers editing the same solution from different machines, or multiple MCP-driven AI sessions running on different hosts — `UserComputer` is the disambiguator that distinguishes simultaneous edits sharing the same login (for example, multiple AI sessions sharing the predefined `MCP` user).

Core Functions

Change Tracking

Version Control tables maintain summaries by Module and Configuration Table, tracking current versions and last modifications of all solution elements. This ensures consistency when connecting to Runtime for online changes.

Cross-Reference Engine

Powers multiple analysis features:

- Find Results Panel in Designer
- Use Count calculations
- Unused Objects detection
- Impact analysis for changes

Limitations

Important: Cross-Reference only detects direct object usage. Indirect references are not tracked:

Indirect Usage Type	Example	Impact
String references	`Asset("/folder1/tag1")`	Not detected
.Link property	TagReference via string	Not tracked
API access	External applications	Not visible
Dynamic references	Script-generated names	Not found
OPC UA/MQTT	External consumers	Not tracked

Integration Points

With Designer

Feature	Integration	Purpose
Find Results Panel	Uses Cross-Reference data	Object search
Home Page	Shows Recent Changes	Quick access
Runtime Diagnostics	Compares versions	Online config
Double-click navigation	From any table row	Direct access

With Runtime

Version Control data enables:

- Online configuration verification
- Hot reload compatibility checks
- Change synchronization
- Version mismatch detection

Best Practices Checklist

Regular Maintenance

- Review Recent Changes daily
- Check Unused Objects weekly
- Monitor Use Count for optimization
- Verify Cross-References before deletion

Before Removing Objects

- Check Unused Objects table
- Verify no indirect references
- Confirm no external usage
- Use Find Results for verification
- Document removal reason

Change Management

- Configure appropriate auto-delete settings
- Keep audit trail for compliance
- Export changes for version control
- Review Version Control before deployment

Performance Considerations

Aspect	Recommendation	Impact
Recent Changes	Set auto-delete policy	Database size
Cross-Reference	Refresh periodically	Query speed
Use Count	Review weekly	Performance insight
Unused Objects	Clean quarterly	Solution size

Troubleshooting

Issue	Cause	Solution
Missing references	Indirect usage	Manual verification
Version mismatch	Unsaved changes	Save and build
Large change log	No auto-delete	Configure cleanup
Slow navigation	Large database	Optimize settings

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