Cross-Reference Reference

Locate where objects are referenced.

Cross-Reference (Reference) provides a table to view all object references within the solution. This data powers the Find Results Panel and enables impact analysis before changes.

Access: Track Changes Cross-Reference

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Table Columns

Column	Description
ID	Unique reference identifier
ObjectName	Referenced object name
UsedByTable	Table using the object
TableItem	Specific item referencing object
Location	Exact location in system

Usage Patterns

The Cross-Reference table is typically accessed indirectly through:

- Find Results Panel (easier interface)
- Use Count calculations
- Unused Objects detection

Limitations - Indirect References

Not Detected

Cross-Reference **cannot** detect indirect usage:

Type	Example	Risk
String References	`Asset("/folder1/tag1")`	Hidden dependencies
Link Properties	TagReference via string	Broken on rename
Script Strings	Dynamic tag names	Runtime errors
.NET Methods	Toolkit string access	Functionality loss
External Access	OPC UA, MQTT, APIs	External system failure

Best Practice

When possible, use direct references:

- Use `Tag1.GetName()` instead of `"Tag1"`
- Reference objects directly in scripts
- Document any indirect usage

Navigation

Double-click any row to navigate to the usage location in Designer.

Warning

The Find Results panel, Use Count, and Unused Objects all rely on Cross-Reference data. Objects used indirectly will not appear in these tools. Verify carefully before deleting or renaming objects.

In this section...
