Solution History Reference

Track solution changes over time.

The Solution History page records key editing events on the solution, specifically Build Commands, Publish operations, Import Wizard Operations, and Plugin operations. It allows users to review and open previous builds (if a Backup was enabled) and manage the updates of Plugins added to the solution.

Access: Solution History

History Interface

Command Buttons

Button	Function	Availability
Open Selected Build	Load previous version	When selected entry has backup
Update Selected Plugin	Update to newer plugin version	When plugin has available update

History Table

Table Columns

Column	Description	Purpose
ID	Unique event identifier	Sequential tracking
VersionID	Solution version at event	Version tracking
EventSource	Type of operation	Build/Import/Plugin
SourceName	Module or component name	Identifies source
SourceSettings	Configuration details	Event parameters
PluginVersion	Version if plugin-related	Plugin tracking
VersionString	Full version string	Detailed version
ReadOnly	Edit protection status	Access control
HasUpdate	Update availability	Plugin updates
Locked	Editing lock status	Security
Preview	Event summary	Quick view
TargetModel	Affected solution model	Impact scope
ProductVersion	Product version used	Platform tracking
Build	Build number at the time of the event.	Build identification
BuildErrors	Error count during build	Quality indicator
UserID	User identifier	Audit trail
Username	User display name	Who performed
HasBackup	Backup availability	Recovery option
DateModified	Last modification	Change tracking
DateCreated	Event timestamp	When occurred

Event Types

Tracked Events

Event Source	Description	Creates Backup
Build	Solution build operation	Optional (configured)
Publish	Production deployment	Always
Import Tags	Tag import wizard completion	No
Import Plugin	Plugin added to solution	No
Plugin Update	Existing plugin updated	Before update
Export	Solution exported	No

Build Management

Opening Previous Builds

To restore a previous build:

1. **Select Build Entry**
   - Must have HasBackup = true
   - Shows backup icon
2. **Click Open Selected Build**
   - Prompts for confirmation
   - Warns about current changes
3. **Restoration Process**
   - Current solution saved as recovery
   - Selected build loaded
   - History entry created

Build Information

Each build entry shows:

Information	Description
Build Number	Sequential identifier. Build number at the time of the event. Only after the build the Build Number is incremented.
Build Time	When created
Build Errors	Problems encountered
Backup Status	If recoverable
User	Who initiated

Plugin Management

Plugin History Tracking

The history maintains complete plugin lifecycle:

Stage	Tracked Information
Initial Import	Version, date, user
Updates Applied	Old version New version
Current State	Active version
Available Updates	HasUpdate flag

Updating Plugins

Process for plugin updates:

1. **Identify Updates**
   - HasUpdate column = true
   - Update button enabled
2. **Select Plugin Entry**
   - Click plugin history row
   - Review current version
3. **Click Update Selected Plugin**
   - System creates backup
   - Applies new version
   - Records in history

Update Validation

Before updating:

- Current state backed up
- Dependencies checked
- Conflicts identified
- User confirmation required

History Filtering

View Options

Filter history by:

Filter	Purpose	How to Apply
Event Type	Show specific operations	Column filter
Date Range	Time period	Date columns
User	Who made changes	Username filter
Has Backup	Recoverable events	Boolean filter
Has Errors	Problem events	BuildErrors > 0

Backup Management

Backup Storage

Backups stored in: `Solution-Data\Backup\`

Backup Type	File Pattern	Retention
Build	Build_[ID]_[Date].dbsln	Per settings
Plugin Update	Plugin_[Name]_[Version].backup	Last 5
Publish	Publish_[Version].zip	Permanent

Backup Settings

Configured in Solution Settings:

Setting	Options	Impact
Create Backup on Build	Yes/No	HasBackup status
Backup Retention	Days (1-365)	Auto-cleanup
Maximum Backups	Count (1-100)	Storage limit

Audit Trail Features

Compliance Support

History provides:

Feature	Purpose	Compliance
User Tracking	Who made changes	21 CFR Part 11
Timestamp	When changes occurred	Audit requirement
Change Details	What was modified	Traceability
Immutable Records	Cannot be deleted	Data integrity

Export Options

History can be exported for:

- Audit reports
- Compliance documentation
- Change analysis
- Project documentation

Best Practices

Regular Review

- Check history weekly
- Monitor build errors
- Track plugin updates
- Review user activity

Backup Strategy

- Enable build backups for major changes
- Keep milestone builds
- Archive before updates
- Test restoration procedure

Plugin Management

- Document plugin sources
- Test updates in development
- Keep previous versions
- Track dependencies

Troubleshooting

Issue	Cause	Solution
Can't open build	No backup exists	Check HasBackup column
Update fails	Version conflict	Check compatibility
History not showing	Filter active	Clear all filters
Backup missing	Not configured	Enable in settings
Plugin won't update	Modified locally	Manual merge required

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