Managing Solutions Reference

Rename, move, or delete existing solutions.

Reference **Solution** **Solution Center** Creating | Managing | Server | Licensing | Upgrading

---

Managing Solutions (Reference): Centralized control for solution execution and diagnostics. Access by selecting a solution in Solution Center and clicking **Manage**.

Related Topics:

- Solution Center (Reference) - Main workspace
- Runtime (Reference) - Execution environment
- Starting Runtime (Guide) - Step-by-step procedures

Solution Information Panel
Actions Panel
Credentials Section
Diagnostic Tools
Property Watch
Trace Window
Module Information
Runtime System Monitor
Troubleshooting

Solution Information Panel

Display Fields

Field	Description	Example
Name	Solution identifier	TankFarmMonitor
Description	Purpose/notes about solution	Production monitoring system
Status	Current execution state	Running (Production, Port:3101)
Path	Full file location	C:\Solutions\TankFarm\TankFarm.dbsln
Version	Solution version number	1.2.0
Modified	Last save timestamp	2024-12-15 14:30:00
Size	Database file size	45.2 MB

Status Indicators

Status	Description	Color
Stopped	Solution not running	Gray
Starting	Initialization in progress	Yellow
Running	Active execution	Green
Stopping	Shutdown in progress	Orange
Error	Execution failed	Red

Actions Panel

Primary Controls

Action	Function	Requirements	Notes
Edit (Open Designer)	Launch Designer for configuration	Dev license, credentials	Opens in edit mode
Read-Only	View configuration without editing	View permissions	Checkbox option
Run in Profile	Start with selected profile	Runtime license	Dropdown selection
Stop	Halt running solution	Running state	Graceful shutdown

Client Access

Action	Description	Requirements
Open Web Displays	Launch browser interface	Runtime active, port 80/443
Open RichClient Displays	Launch desktop client	.NET client installed
SSL	Enable secure connection	SSL certificate configured

Execution Profiles

Profile	Purpose	Database	Diagnostics	Security
Development	Testing/debugging	SQLite local	Full trace	Minimal
Validation	Pre-production test	Test server	Warnings	Standard
Production	Live operation	Production SQL	Errors only	Full

Credentials Section

Authentication Fields

Field	Description	Scope	Persistence
Username	Login identifier	This page only	Session only
Password	Authentication credential	This page only	Session only

Important Notes:

- Credentials apply only to actions on this page
- Home page actions default to guest/production
- Credentials reset when navigating away
- Use Designer login for persistent authentication

Diagnostic Tools

Available Tools

Tool	Purpose	Access Requirement
Property Watch	Monitor/modify tag values	Runtime active
Trace Window	View system messages	Always available
Module Information	Check module status	Runtime active
Runtime System Monitor	Performance metrics	Runtime active
Alarms Monitor	Active alarm display	Alarms configured
Historian Monitor	Trend chart interface	Historian configured

Property Watch

Real-time monitoring and modification of tags and system properties.

Features

Feature	Description	Use Case
Browse Tree	Navigate tag hierarchy	Find specific tags
Live Values	Real-time updates	Monitor changes
Write Values	Modify if permitted	Testing/debugging

IntelliSense	Auto-completion	Quick navigation
Search	Find tags by name	Large systems

Object Types

Type	Read	Write	Examples
Tags	YES	YES	Process values
System Properties	YES	NO	Runtime stats
Device Status	YES	NO	Communication state
Module Info	YES	NO	Module health

Trace Window

System message viewer for debugging and monitoring.

Trace Levels

Level	Messages Shown	Use Case
Error	Errors only	Production
Warning	Errors + Warnings	Validation
Info	All except debug	Development
Debug	Everything	Deep debugging

Message Categories

Category	Description	Color
System	Core runtime messages	Black
Device	Communication messages	Blue
Script	Script execution	Green
Database	SQL operations	Purple
Error	Error messages	Red

Module Information

Detailed status for each runtime module.

Module Metrics

Metric	Description	Normal Range
State	Running/Stopped/Error	Running
CPU Usage	Processor utilization	< 50%
Memory	RAM consumption	< 500 MB
Thread Count	Active threads	1-10
Start Time	Module launch time	-
Errors	Error count	0

Common Modules

Module	Function	Critical
TServer	Main runtime process	Yes
Devices	Communication manager	Yes
Alarms	Alarm processing	No
Historian	Data logging	No
Scripts	Script execution	No

Runtime System Monitor

System Metrics

Metric	Description	Alert Threshold
CPU	Total processor usage	> 80%
Memory	RAM utilization	> 90%
Disk I/O	Read/write operations	> 100 MB/s
Network	Bandwidth usage	> 80% capacity
Handles	System handles	> 10,000

Performance Counters

Counter	Description	Update Rate
Tags/Second	Tag update rate	1 second
Alarms/Minute	Alarm generation	1 minute
DB Writes/Second	Database operations	1 second
Client Count	Connected clients	Real-time

Troubleshooting

Common Issues

Problem	Cause	Solution
Can't edit	File locked	Check who has it open
Tools disabled	Not running	Start solution first
No credentials	Guest access	Enter valid username
Profile missing	Not configured	Setup in Designer
Stop fails	Hung process	Force stop via Task Manager

Log Locations

Log Type	Path	Content
Runtime	Logs\Runtime\	Execution errors
Diagnostics	Logs\Diagnostic\	Tool outputs
Security	Logs\Security\	Access attempts

In this section...