Server Information Reference

View detailed server and environment info.

The Server Information page manages where solutions are stored and accessed, supporting both local file access and remote server connections for distributed engineering.

Related Topics:

- Solution Center (Reference) - Entry point for Solution Center User Interface
- Managing Solutions (Reference) - Start, Stop, and open diagnostics tools on running solutions.

Solutions Location
Local Computer Files
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Solutions Location

Access Modes

The key option is this table is the Access Mode, it will define if the platform will work with files local, or remote.

Mode	Description	Use Case	License
Local Computer Files	Direct file system access	Single user development	Standard
Solution Server	Network access via TWebServices	Multi-user collaboration	Engineering users

Local Computer Files

Local Search Folders

Directories scanned for solution files (.dbsln and .tproj):

Operation	Function	Shortcut
Add Search Path	Include new folder	+ button
Remove Search Path	Exclude folder	- button
Refresh	Rescan folders	F5

Folder Properties

Each folder has individual settings:

Property	Description	Default	Impact
Visible	Show in solution list	Checked	Local display
Allow Remote Access	Enable network access	Unchecked	Remote users can view



If Allow Remote checkbox is unchecked, the solutions in that folder will be accessible my remote Solution Centers tools, neither by the local MCP for Designer tool.

Only a local instance of the Designer.exe will be able to access those solutions

Default Locations

Folder	Path	Purpose
User Solutions	Documents\FrameworX\Solutions	Personal projects

Shared Solutions	Public\Documents\FrameworX	Team projects
Templates	Documents\FrameworX\Templates	Solution templates

Solution Server Connection

Connection Parameters

Field	Description	Required	Default
Server	IP address or hostname	Yes	localhost
Port	TWebServices port	Yes	10108
Access Key	Security password	If configured	(none)
Timeout	Connection timeout	No	30 seconds

Common Addresses

Address	Description	Use Case
127.0.0.1	Local loopback	Testing
localhost	Local machine	Development
192.168.x.x	Local network	Team access
hostname.domain	Domain name	Enterprise

Connection Actions

Button	Function	Status Indicator
Connect	Establish connection	Green = Connected
Update	Refresh server info	Yellow = Updating
Disconnect	Close connection	Gray = Disconnected

Connected Server Information

Server Details Display

Information	Description	Example
Operating System	Server OS version	Windows Server 2022
Server URL	Full connection string	http://192.168.1.100:10108/
Server IP	Network address	192.168.1.100
Version	FrameworX version	10.2.0.1234
Platform	.NET version	.NET 8.0

Running Services

Service	Purpose	Default Port	Status
TWebServices	Solution access	10108	Required
MQTT Broker	MQTT communications	1883	Optional
HardKey	License service	10109	As needed
OPC UA Server	OPC UA endpoint	48030	Optional

Service Management

Action	Function	Requires
Start Service	Launch service	Admin rights
Stop Service	Halt service	Admin rights
Install as Windows Service	Auto-start on boot	Admin rights
View Logs	Check service logs	Read access

Local Computer Management

Access Key Configuration

Security for remote connections:

Field	Description	Requirements
Set AccessKey	Define password	8+ characters recommended
Verify	Confirm password	Must match
Apply	Save settings	Restarts service

Warning: Pressing Apply with empty fields removes the AccessKey

Security Settings

Setting	Description	Default
Require AccessKey	Password for remote access	Disabled
Allow Guest Access	Permit anonymous viewing	Disabled
SSL/TLS	Encrypted connections	Disabled
IP Restrictions	Limit by IP range	None

SSL/TLS Certificate Configuration

To configure a TLS/SSL certificate for TWebServices, click the **SSL** button in the Solution Center panel. Settings are saved to `TWebServices.json` in the machine settings folder on the server.

Source	Description	Availability
Certificate File	Load a .pfx or .crt file from the file system	Local and remote
Certificate Store	Select a certificate by thumbprint from the Windows local machine store	Local only

Certificate File mode: Browse for a .pfx or .crt file. For .pfx files, enter the certificate password. When connected to a remote server, the file is uploaded automatically to the `Certificates\` subfolder in the server's machine settings directory.

Certificate Store mode: Enter the SHA-1 thumbprint of a certificate already installed in the Windows local machine store. Not available when connected to a remote server.

Validate Certificate: Checks the certificate and displays its subject, expiration date, and issuer. Only available in local mode. Validation is required before saving (unless using Delete).

Delete Certificate: Clears the certificate configuration and disables HTTPS for TWebServices.

> Once a certificate is configured, the Solution Center will connect to this server using HTTPS only.

TWebServices Configuration

Service Requirements

Component	Requirement	Check Method
Port Available	10108 not in use	netstat -an
Firewall	Port open	Windows Defender
Permissions	Read/write access	Folder properties
License	Valid runtime	License panel

Starting TWebServices

Method 1: From Solution Center

1. Go to Server Information
2. In Connected Server section
3. Select WebService in Add Services
4. Click Start

Method 2: Manual Start

1. Navigate to installation folder
2. Run TWebService.exe
3. Check system tray icon
4. Verify port in tooltip

Method 3: Windows Service

1. Open Services (services.msc)
2. Find "TWebService-FrameworX"
3. Start service
4. Set to Automatic

Service Status Indicators

Indicator	Location	Meaning
Tray Icon	System tray	Green = Running
Services Panel	Windows Services	Status column
Task Manager	Processes tab	CPU/Memory usage
Server Info	Solution Center	Running Services list

Multi-User Configuration

Requirements for Collaboration

Component	Server	Client
Software	FrameworX installed	FrameworX installed
License	Engineering users > 1	Valid license
Service	TWebServices running	Network access
Connection	Solution Server mode	Server connection

Setup Steps

On Server:

1. Set Solution Server to http://localhost/
2. Configure folders with Allow Remote
3. Start TWebServices
4. Optional: Set AccessKey

On Client:

1. Select Solution Server mode
2. Enter server IP:Port
3. Enter AccessKey if required
4. Connect

Important Notes

- Cannot mix local and remote editing of same solution
- Server must also connect to itself for multi-user
- Each folder has independent remote permissions

Script Compilation in Multi-Engineering Mode

Script compilation runs on the client (Designer) machine when editing a solution remotely via Solution Server. The server receives and executes the compiled output only. If your scripts reference external DLLs, those DLLs must be available on the client machine at build time and on the server machine at runtime. Use path macros and consistent folder placement across both machines to avoid reference errors. See Scripts References Reference for recommended folder structure and available macros.

Web Interface Access

Browser URL Format

```
http://<server>:10108/solutions
http://<server>:10108/solutions?accesskey=<key>
https://<server>:10108/solutions (if SSL enabled)
```

ClickOnce Support

For Designer launch from browser:

Browser	Support	Notes
Edge	Full	Recommended
Chrome	With extension	ClickOnce addon
Firefox	Limited	Manual launch
Safari	No	Use desktop client

Troubleshooting

Connection Issues

Problem	Cause	Solution
Can't connect	Service not running	Start TWebServices
Access denied	Wrong AccessKey	Verify password
No solutions	Wrong path	Check folder settings
Timeout	Network issue	Check firewall/ports

Service Issues

Problem	Cause	Solution
Won't start	Port in use	Change port or stop conflict
Crashes	Permission issue	Run as administrator
Not in services	Not installed	Install as Windows Service

File Access Issues

Problem	Cause	Solution
Solutions not visible	Not in search path	Add folder
Can't save	Read-only	Check permissions
Locked files	Open elsewhere	Close other instances

Log Locations

Log Type	Path	Content
TWebServices	Logs\WebService\	Connection logs
Access	Logs\Access\	Login attempts
Errors	TraceLogs\	Error details

Best Practices Checklist

Folder Organization

- Separate folders for Dev/Test/Production
- Use descriptive folder names
- Set appropriate visibility per folder
- Regular backup of solution folders

Security

- Always use AccessKey for production
- Limit remote access to specific folders
- Use SSL for sensitive environments
- Regular license audits

Performance

- Limit search paths to active folders
- Regular cleanup of old solutions
- Monitor service resource usage
- Optimize network connectivity

In this section...
