Multi-site

The **Multi-site** function allows multiple Thinknx servers installed in different locations to be managed through a single centralized project.

This function is designed for distributed installations, such as retail chains, shopping centers, corporate offices, separate buildings, or configurations consisting of multiple local servers. Each site retains its own Thinknx server, while a **main server** supervises and controls the various **secondary servers**.

The **main project** can be used to create a centralized supervision interface, import graphical objects from **secondary projects**, copy pages, and configure shared commands, controls, and schedules.

When to use Multi-site

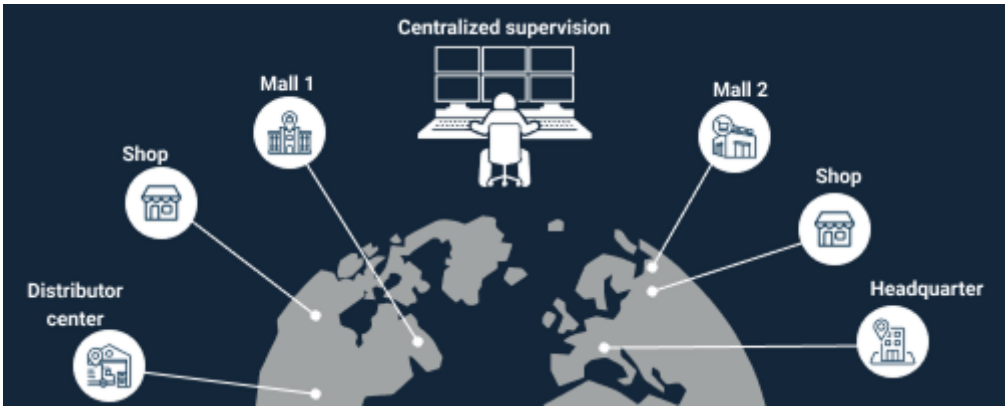
The **Multi-site** function is recommended when multiple separate Thinknx sites need to be supervised from a single control point.

Typical applications include:

- retail chains with multiple stores;
- shopping centers with separate areas or buildings;
- distributed corporate offices;
- installations consisting of multiple independent Thinknx servers;
- centralized supervision of remote facilities.

Each site retains its own **secondary project** and **secondary server**, while the **main project** collects the most important information and allows the required elements to be controlled from a single interface.

Operating principle



The **Multi-site** system is based on a structure consisting of:

- one **main server**, used for centralized supervision;
- one or more **secondary servers**, installed at the different sites;
- **secondary projects** exported in **Multi-site** format with the **.site** extension;
- graphical objects linked to the **subprojects** and used within the centralized supervision interface.

The **main project** contains references to the imported sites. From this project, it is possible to display, organize, and control objects belonging to the **secondary servers**.

Requirements

Before configuring a **Multi-site** system, make sure that:

- each site has a correctly configured Thinknx **secondary server**;
- the **secondary projects** are complete and operational;
- the **main project** is intended for the **main server** that will manage centralized supervision;
- the **secondary servers** can be reached through the local network, a public IP address, or a cloud connection, depending on the required configuration;
- the **secondary projects** have been exported in the dedicated **.site** format.

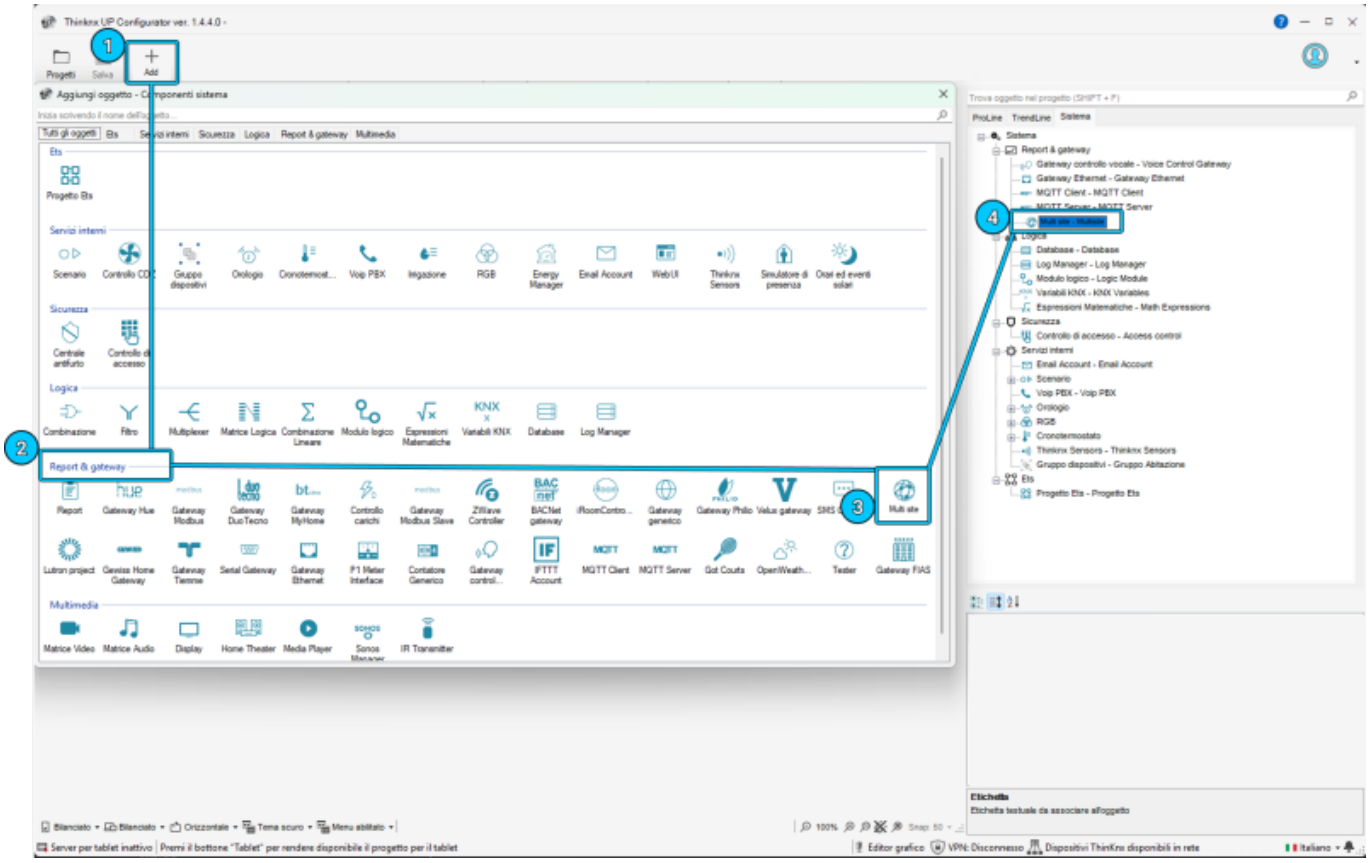
The **.site file** must be generated from the **secondary project** and then imported into the **main project**.

Adding the Multi-site object

To use the **Multi-site** function, the dedicated object must be added in the Configurator.

In the Configurator, click **Add** and select:

System > Report & gateway > Multi-site



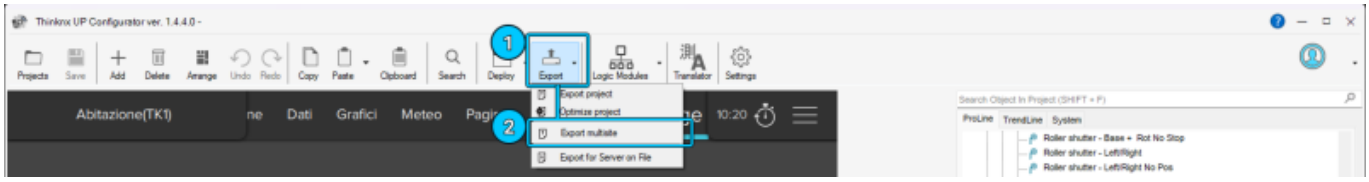
Once added, the object is displayed in the project tree under **System > Report & gateway**.

Exporting a project for Multi-site

The **secondary projects** must be exported in a dedicated format before they can be used in the **main project**.

To export a **secondary project** in **Multi-site** format:

- open the **secondary project**;
- click **Export** in the toolbar;
- select **Export multi-site**;
- save the generated file.



The exported file uses the following extension:

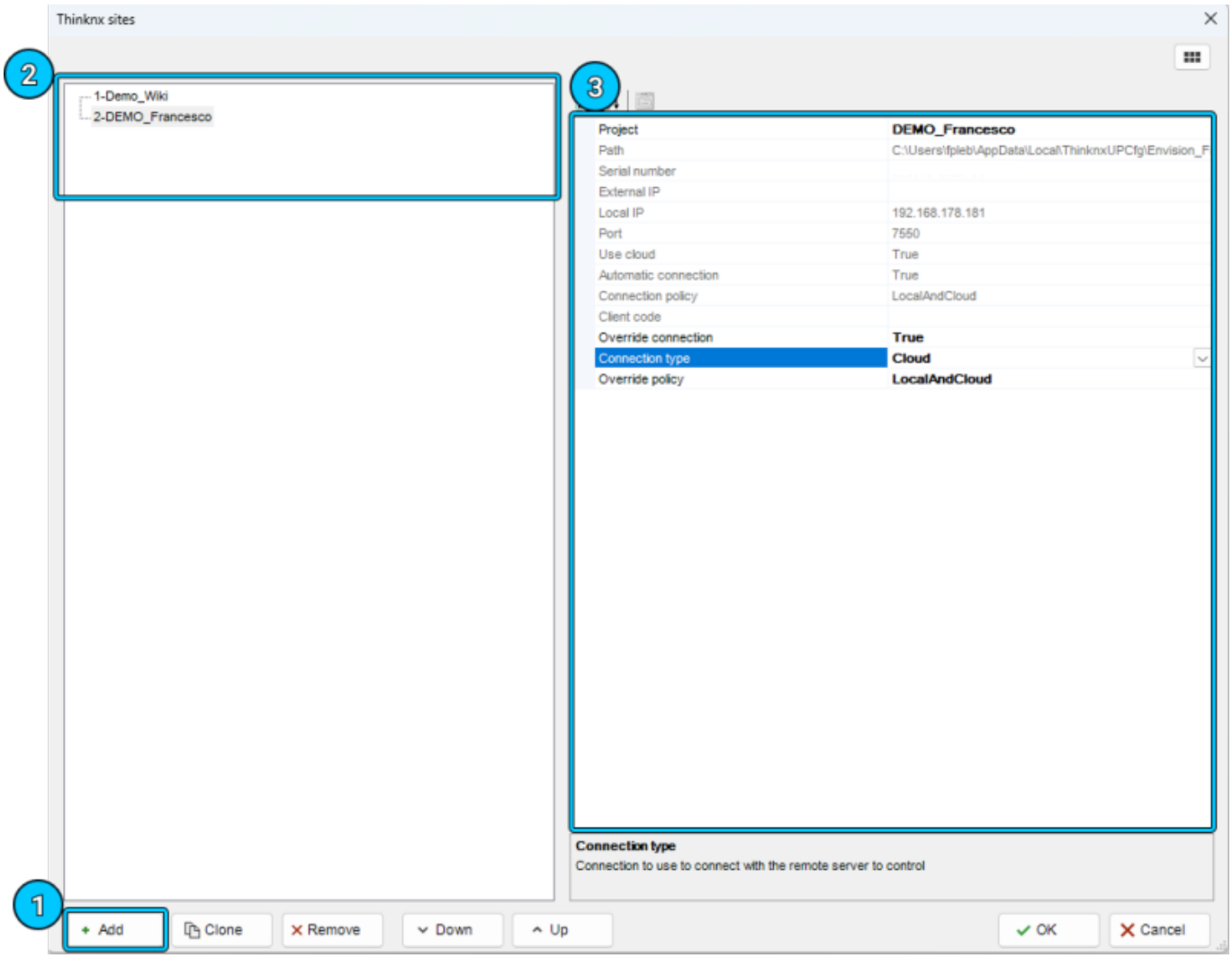
```
.site
```

This **.site file** contains the information required to import the **secondary project** into the **main project**.

Importing sites into the main project

After exporting the **secondary projects** in **.site** format, they can be imported into the **main project**.

In the **Multi-site** object, open the Thinknx site management window and add the required sites.



The configuration window can be used to add, clone, remove, and reorder the imported sites.

Once a site has been imported, its main properties are displayed, including:

Property	**Description**
Project	Name of the imported project.
Path	Path of the linked file or project.
Serial number	Serial number of the secondary server.
Public IP	Public IP address of the secondary server, if used.
Local IP	Local IP address of the secondary server, if used.
Port	Communication port used by the server.
Cloud enabled	Indicates whether the site uses a cloud connection.
Client code	Client code used for the connection.
Connection port	Port used for the connection.

Property	Description
Connection override	Allows the connection method to be overridden.
Connection type	Direct or Cloud.
Override policy	Local & Cloud or Local & Remote & Cloud.

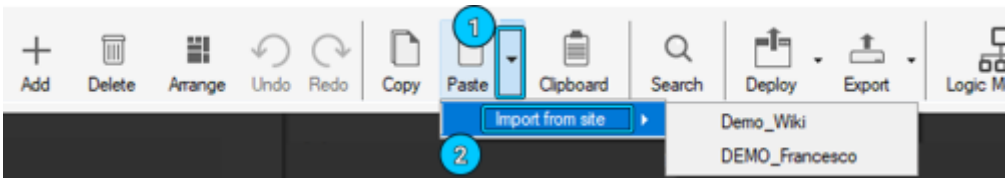
Importing pages and objects from sites

Once the sites have been imported into the **main project**, the graphical elements of the **secondary projects** can be used.

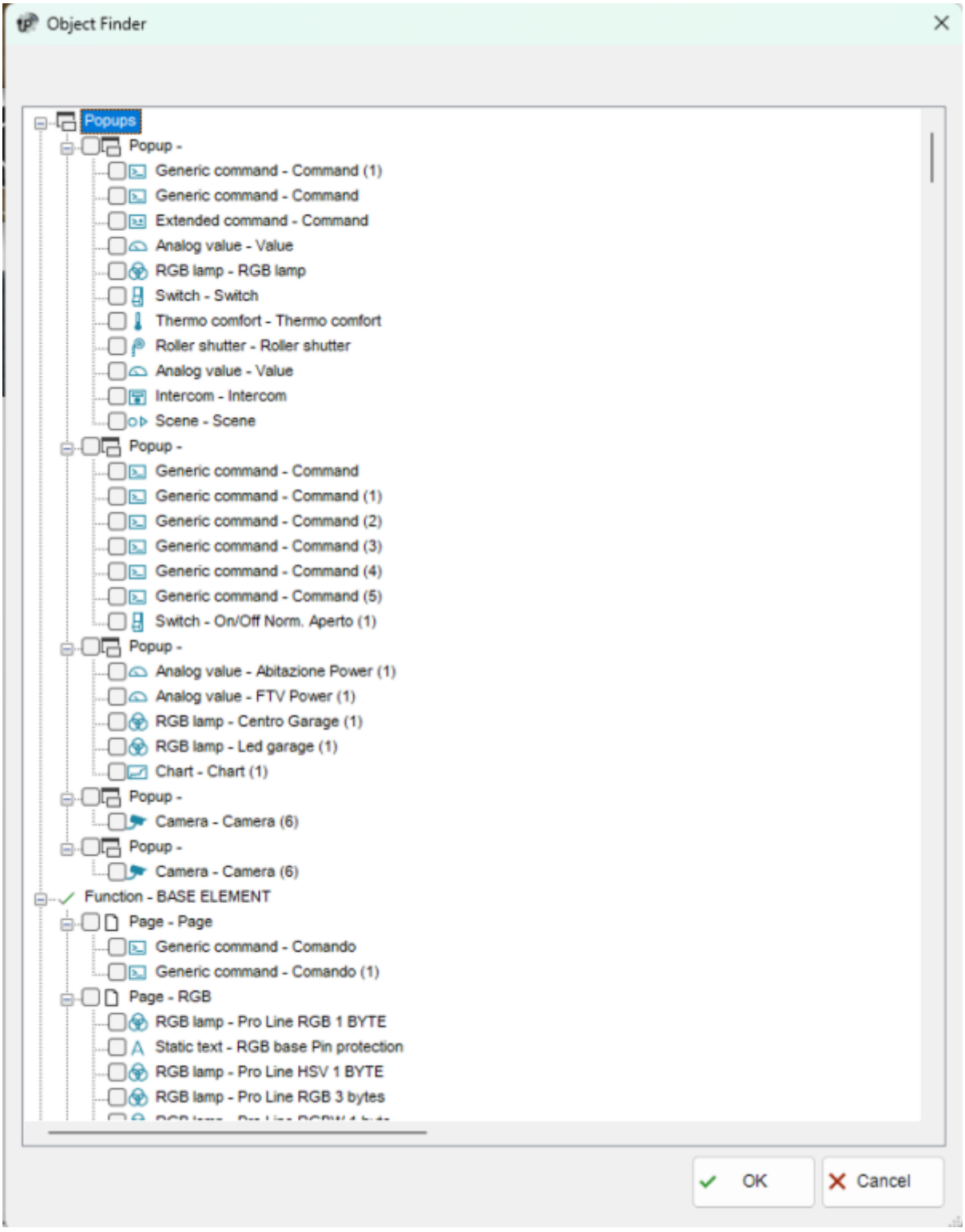
An arrow next to the **Paste** command opens the site import menu.

From this menu, select:

Import from site



This function opens a window containing the objects available in the imported site.



This window can be used to copy pages, functions, and graphical objects from the **subprojects** into the **main project**.

The imported objects can then be used to create a centralized supervision interface while retaining their references to the **secondary servers**.

Direct connection to subproject objects

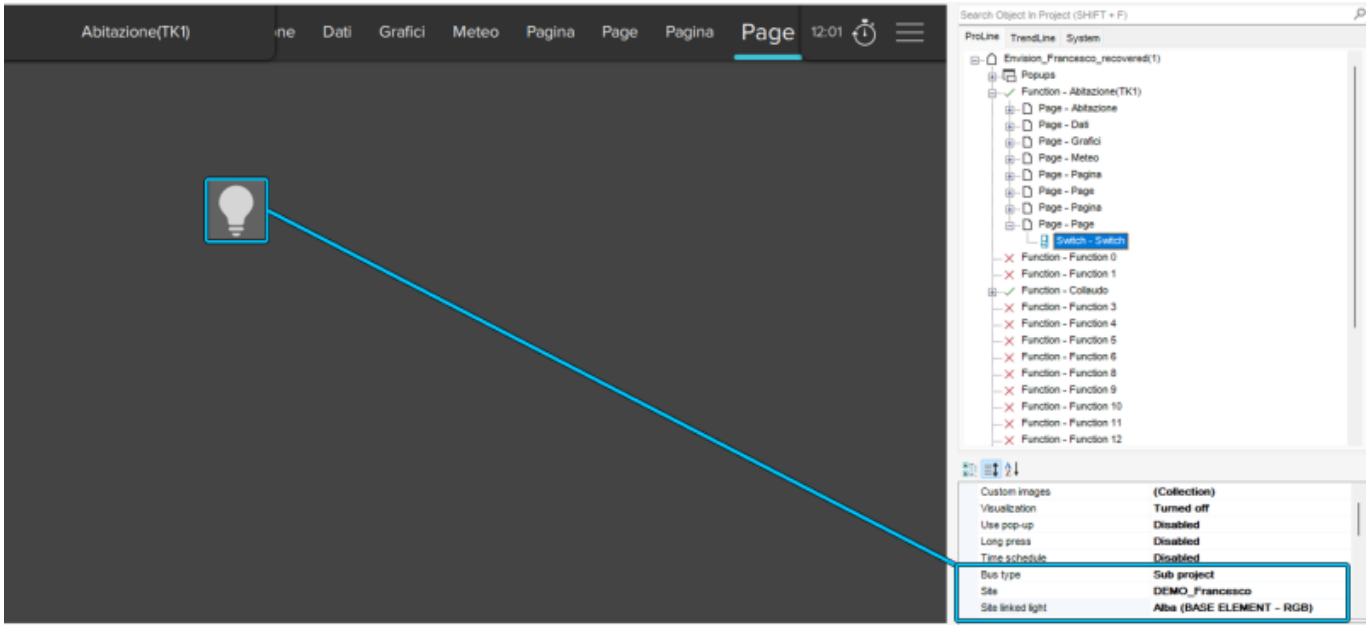
In addition to using the **Import from site** command, a graphical object can be manually linked to a

subproject.

To do this, select the required graphical object and set the following property:

Bus type > Subproject

Then, in the **Site** field, select the **secondary project** from which the object must receive information or to which it must send commands.



The graphical object in the **main project** is now linked to an element belonging to one of the imported sites.

This method is useful when creating a customized centralized supervision interface and manually selecting which objects must be linked to the various **subprojects**.

Centralized supervision

The **main project** can contain pages dedicated to the overall supervision of the entire **Multi-site** system.

These pages can be used to:

- display the status of objects belonging to the different **secondary servers**;
- send commands to devices in the **subprojects**;
- create shared summary pages;
- manage centralized schedules;
- organize centralized controls for multiple sites;
- create a map or general overview of the entire installation.

This configuration keeps the individual **secondary projects** separate while allowing them to be controlled from a single supervision point.

Recommended workflow

The recommended workflow for configuring a **Multi-site** system is:

- configure the **secondary project** for each site;
- export each **secondary project** using **Export > Export multi-site**;
- create or open the **main project**;
- add the **Multi-site** object;
- import the **.site files** of the **secondary projects**;
- copy pages or objects using **Import from site**;
- alternatively, link objects manually using **Bus type > Subproject**;
- create the centralized supervision pages;
- send the **main project** to the **main server**.

Updating sites

When a **secondary project** is modified, it must be exported again in **.site** format, and the corresponding site must be updated in the **main project**.

This allows the **main project** to use the latest version of the objects, pages, and references belonging to the **subproject**.

It is recommended to use clear and consistent names for exported **.site files**, so that the site and project version can be easily identified.

Notes

The **secondary projects** must be exported in **.site** format before they can be used with the **Multi-site** function.

The **main server** does not replace the **secondary servers**. It communicates with them to provide centralized management. Each **secondary server** continues to manage its own site, while the **main project** allows multiple sites to be supervised and controlled from a single interface.

The **Multi-site** function is particularly useful for distributed installations where local control of individual sites must be maintained together with centralized supervision.