

Collaborator

from
SciFrame

Distributed Application Collaboration.

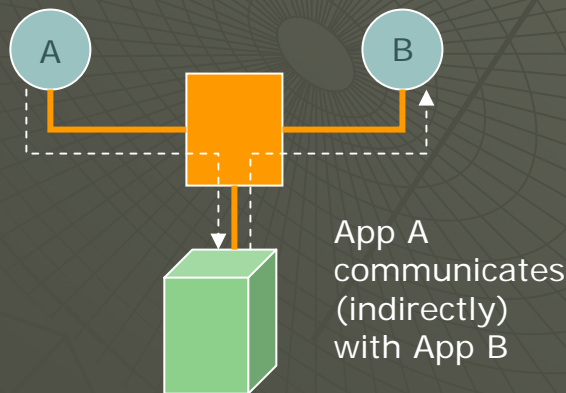
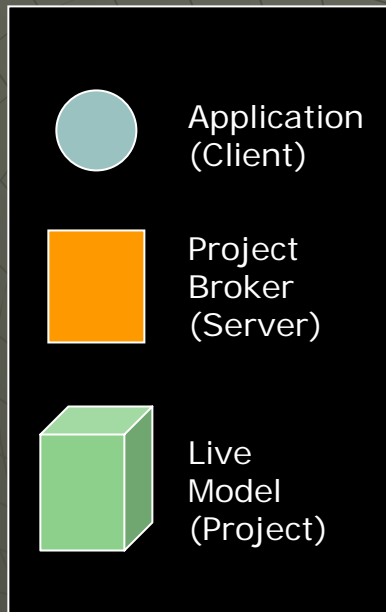


Collaborator Configuration

Collaborator achieve collaboration between client applications by connecting the applications to a common Live Model (also called a 'project') through the services of a Project Broker.

Client applications register with the Project Broker. The Project Broker informs the registered applications of changes to the Live Model and implements legitimate client requests to modify and add to the Live Model.

Therefore, when an application makes a change to the Live Model, any application registered with the Project Broker will "see" the changes and respond accordingly.



Collaborator Package

The Package

The Collaborator Package for a customer's site consists of:

- ◆ A Project Broker Server
- ◆ A Collaborator Server License for N Project Broker Registrants
- ◆ A Collaborator Client License for M Collaborating Clients

Collaborator License usage

When ever a client application at a site is registered with a Project Broker, this action uses one of the site's Collaborator Client Licenses. Note that the Project Broker may be at this same site or a different site.

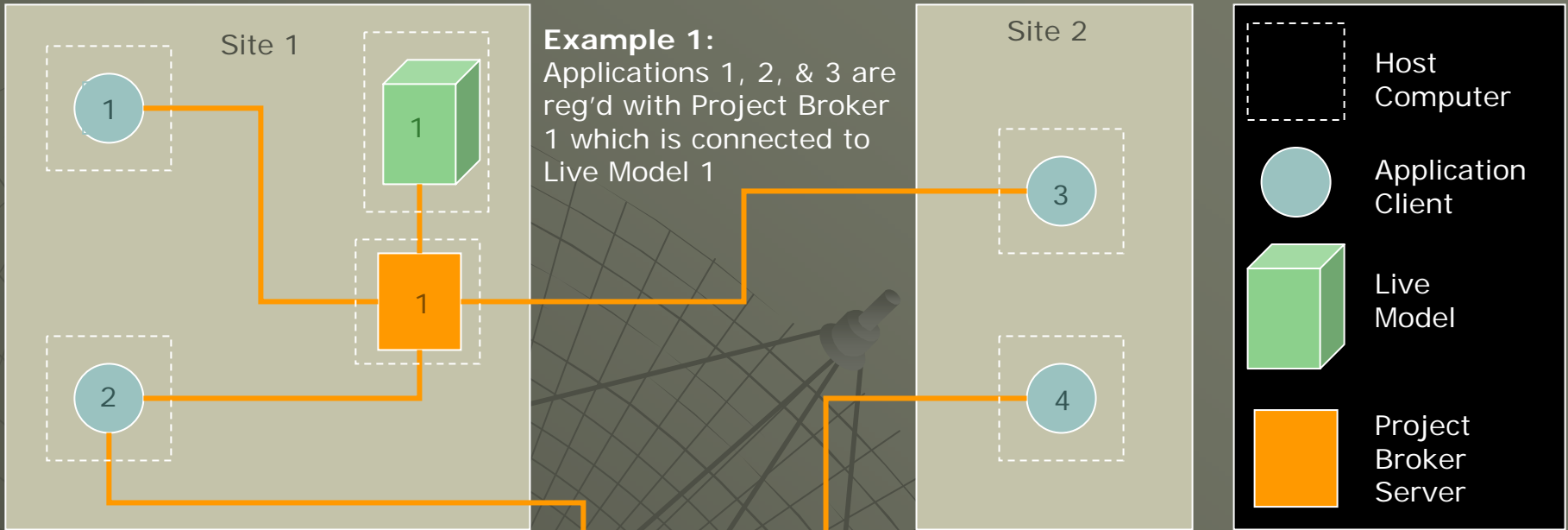
When ever a Project Broker at a site registers a client application, this action uses one of the site's Collaborator Server Licenses. Note that the client application may be at the same site or a different site.

Security Against Client Application Failure

During a collaborative session, a Project Broker is an independent executable – failure of a client registered with the Project Broker will not cause the Project Broker to fail. This provides an important data safety/integrity factor in the case that clients are attached to a live model via an (external) Project Broker: **the data in the live model is insulated from client failure.**



Collaborator Connection & Inter-site Collaboration Examples



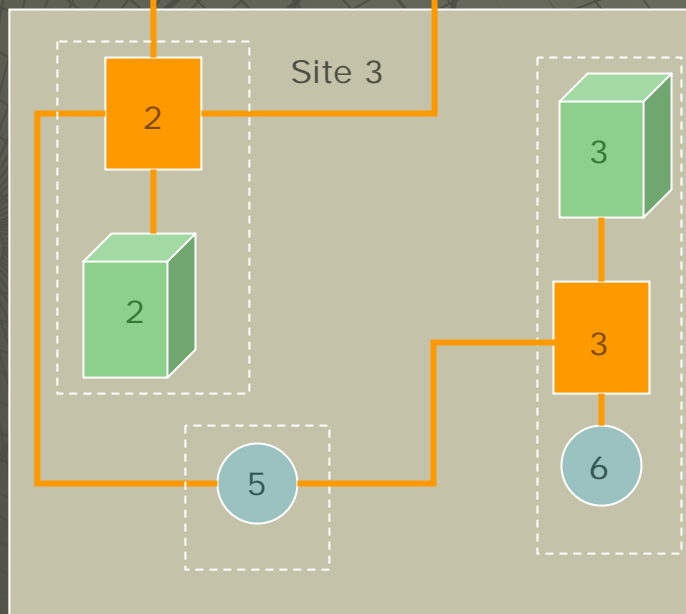
Legend:

- Host Computer (dashed box)
- Application Client (blue circle)
- Live Model (green cube)
- Project Broker Server (orange square)

Example 2:
Applications 2, 4, & 5 are reg'd with Project Broker 2 which is connected to Live Model 2

Example 3:
Project Broker 3 was originally internal to Application 6 and was then exported.

Applications 5 & 6 are reg'd with Project Broker 3 which is connected to Live Model 3



License Usage

Site 1:
Uses 3 client licenses
Uses 3 server licenses

Site 2:
Uses 2 client licenses

Site 3:
Uses 2 client license
Uses 4 server licenses



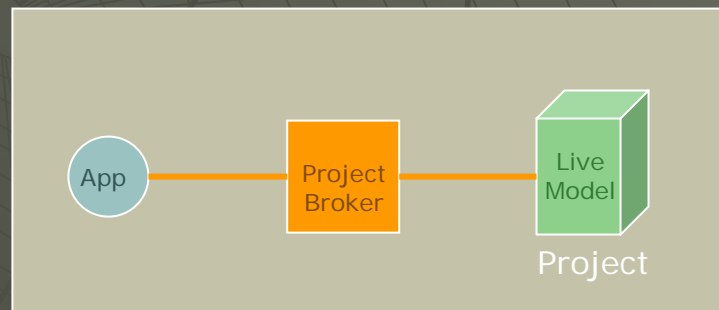
Collaborator as a Data Model Security Agent.

Collaborator can be used to insulate the live model (project) from possible application failure or lockup. Here is how you do it. It's as simple as:

- 1 Launch the Project Broker.
- 2 Launch the application and attach to the Project Broker.
- 3 Request the Project Broker open a previous project or create a new project.

You are now ready to work with an easy mind. If the application experiences a failure or lockup, "kill" the application and redo steps 2 and 3. Since the Live Model and the Project Broker are insulated from the application, the project is still in memory as it was just prior to application failure. **No data is lost and only a few seconds of time are required.**

This uses 1 Server license and 1 Client license.



Note: The application, Project Broker, and Project may be on different hosts or all on the same host workstation.

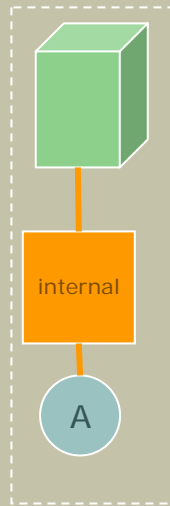
Exporting an internal Project Broker for Collaboration

1

Site

In a normal non-collaborative session the application uses an internal Project Broker to attach to local live model.

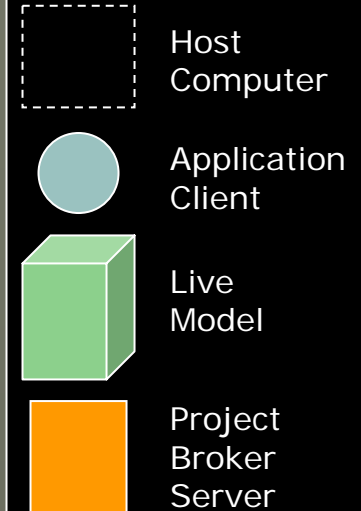
This configuration does not use any Client or Server Licenses.



NOTE:

A normal collaborative session between two apps using an (external) Project Broker requires the use of 2 Server and 2 Client licenses but this option uses only 1 of each.

However, in this scenario, the Project Broker is not independent of the Client so if the client A fails, the Project Broker will also fail and the live model is removed from memory.

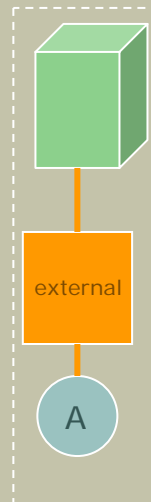


2

Site

The client exports the Project Broker making it available for connection to other clients.

This configuration also does not (yet) use any Client or Server Licenses.



3

Site

Another client at the site registers with the Project Broker.

This configuration uses 1 Client and 1 Server License at the site.

Apps A and B are now joined in a collaborative session.

