

Interactive Service Broker – what happens when

Manage Process Agents Page

When you enter a new process agent and click on “**Install Domain Credentials**”

- Create local Service Broker credential set and contacts the Process Agent

- Process Agent creates a new entry in the Process Agent table for the local SB

- If Process Agent is a Service Broker (ie the ServiceType=SB)

- Convert credential set to Remote service Broker

- Create new entry in the Process Agent table

- Save coupon

- Create Domain URLs

- Create Qualifies

- Create Process Agent credential set and send it back to local Service Broker

- Local Service Broker receives the process agent credential set

- If Process Agent is a Service Broker (ie the ServiceType=SB)

- Convert credential set to Remote service Broker

- Save coupon

- New entry in the Process Agent table

- New Domain URLs entered into the AdminURLs table

- New Qualifiers entered into the Qualifier table

When you update the contact information, description or infoURL

- New ResourceMappings are created

When you associate and Admin Group

- New ResourceMappings are created

- New grants are created.

Manage Lab Clients Page

When you create a new client entry

- New entry in the Lab Clients table

- New Qualifiers entered into the Qualifier table

When you Associate the Lab Server

- New entry in the LabServer_to_Client_map table

- Updates the Lab Client record

- Removes all old grants associated with Lab Server/Client combos

- Creates new grants based on the updated Lab Server list

When you associate the ESS

- New ResourceMappings are created

- New Qualifiers entered into the Qualifier table

- Update Lab Client record

When you associate the USS

- New ResourceMappings are created

- New Qualifiers entered into the Qualifier table

- Update Lab Client record

- For each Lab Server use ResourceMappings to find the associated LSS

 - Add USS credentials to LSS using AddUSSinfo

 - Add LSS credentials to USS using AddLSSinfo

- Add experiment information to the USS using AddExperimentInfo

When you Associate Groups

- New ResourceMappings are created

- New Qualifiers entered into the Qualifier table

- New grants are created.

- Add group credential set to USS

- Add group credential set to LSS

Inter-Domain Registration Page

Select the remote Service broker, the local client and lab server

Make a register call on the remote Service Broker

- Create a Service Broker header

- Create the Service Description:

 - Service Provider Info for the Lab Server

 - Service Provider Info for the LSS

 - Service Provider Info for the Client

 - Coupon

 - CustomerInfo = null

- Generate job control_id guid

- Create Interactive ServiceBroker proxy

On the Remote Service Broker: Human approves Register request

- Create Lab server record

- Create LSS record

- Associate LS and LSS

- Create Client Record

- Associate LS and Client

- Create qualifiers

- Create Resource Mappings

- Create grants

- Add LSS credentials to USS

- Add experiment information to the USS

Human Interaction:

- associates local ESS

- associates local USS

- updates loader script if necessary

- associates groups

Adds group credentials to USS

Remote register call on local Service Broker

- Create a Service Broker header using coupon and guid supplied

- Create the Service Description:

 - Service Provider Info for the USS

 - Revoke Reservation ticket (permanent)

 - Customer Info about the group

On the Local Service Broker:

- Add USS credentials to LSS

- Add group credential set to LSS

- Store Revoke Reservation Ticket