

## Database Proxy for IBM Power i ...accessing live corporate data throughout the enterprise with IceBreak

**Databases integrated with RPG, the web**

**Your IBM Power i just became your information systems hub. No longer cut off from the numerous database in your enterprise,**

**Database Proxy allows disparate sources of data to be brought together under one roof to deliver true value, in both internal web and 5250 applications. The technology of choice**

### Before Database Proxy

IBM Power i exists for one purpose, to add value to the business. To do this data is required from numerous sources, often residing on many different platforms perhaps at different locations.

There exist many ways to keep all this data in sync, so the Power i can participate in the IT infrastructure. Databases can be replicated, reports can be generated in batch, data sent via FTP etc. All these solutions suffer from a major weakness - the data is not live.

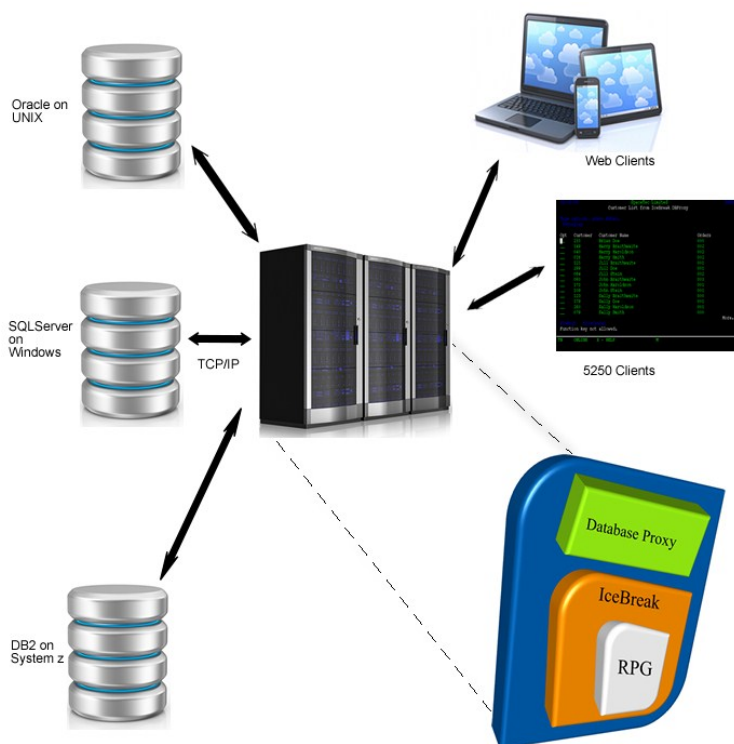
### Live Data

Imagine you are wishing to develop an internal IceBreak web application, or even a 5250 application. You want to access data from a database on another system. Probably not DB2, Probably not on a IBM Power i. You want this access to be live, you want the latest up to the second data. Maybe you even wish to be able to update the remote database.

### Database Proxy: how it works

Database Proxy is just that, a proxy for database access. Using RPG you can develop your internal applications, using web 5250 technology. Here's the recipe:

1. You create your SQL request to access (or update) remote data.
2. You send this request to Database Proxy from within RPG.
3. Databases Proxy queries the remote databases, and gathers the results
4. Database Proxy returns the data you wish as XML
5. With RPG you interpret this XML, however you wish - to create an intranet web page, a 5250 application or even update local DB2 data.



None of these operations are difficult, as IceBreak provides all the APIs required. There isn't even RPG's usual 32KB data limit to contend with.

## Any Platform, Anywhere

Database Proxy is platform agnostic, in that the platform on which the remote database is running does not matter. It could be another IBM Power i, an IBM mainframe, a UNIX or even a windows machine.

All the major databases are supported, such as DB2, Oracle, Sybase, SQLServer, MySQL etc.

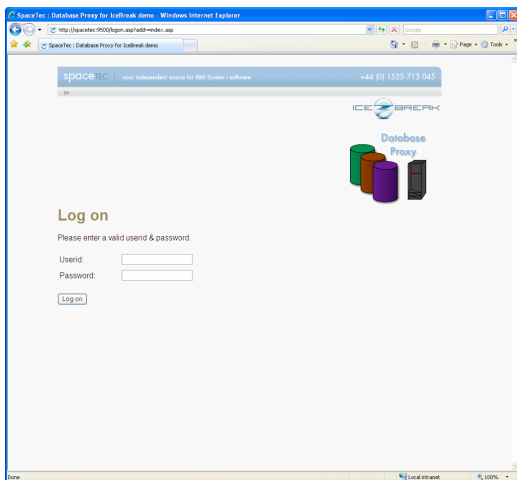
## One License, many databases

What if you have many databases? Perhaps you wish to implement many different internal applications, for different departments with differing data requirements?

One copy of Database Proxy running on IBM Power i can communicate with a virtually unlimited number of databases concurrently. When RPG requests database data, the request includes a unique names for the database required. A simple Configuration file (there is only one configuration file) maps these names to specific databases with their connection credential. Configuration couldn't be simpler.

## Examples

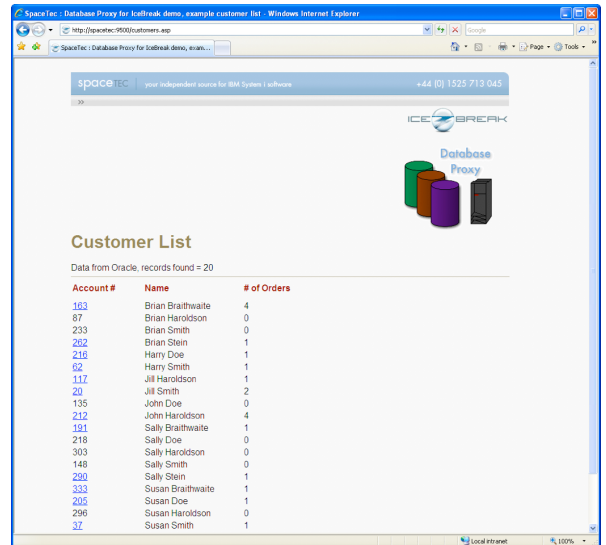
Creating a distributed data application with IceBreak and Database Proxy is easy. Here we can see an example login screen for a web application. IceBreak provides a simple RPG API for checking user credentials.



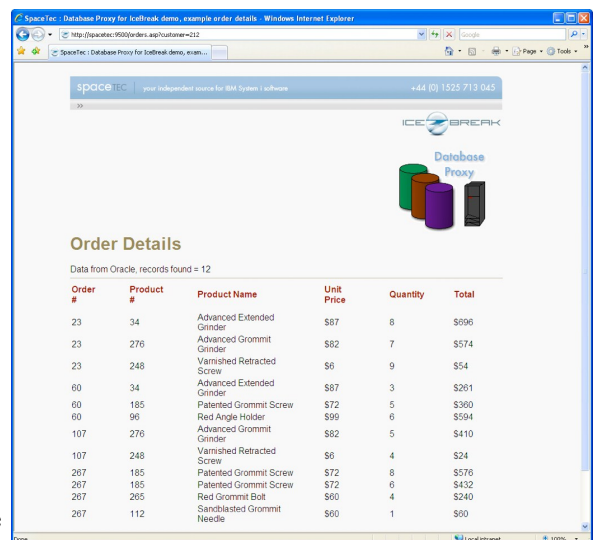
Once Authenticated, the job which process the web request runs as the authenticated user, inheriting all the appropriate access rights.

Here is an example application showing a list of customers. The list was produced with IceBreak and Database

Proxy running on a IBM Power i, the data came from an Oracle 10g database running under UNIX.



The user can click on a customer, and see orders. More data coming from Oracle



5250 applications can be developed in exactly the same way. Here is a customer list from Oracle using 5250

