

KINETIC DATA

Your business. Your process.

Platform  
for Success

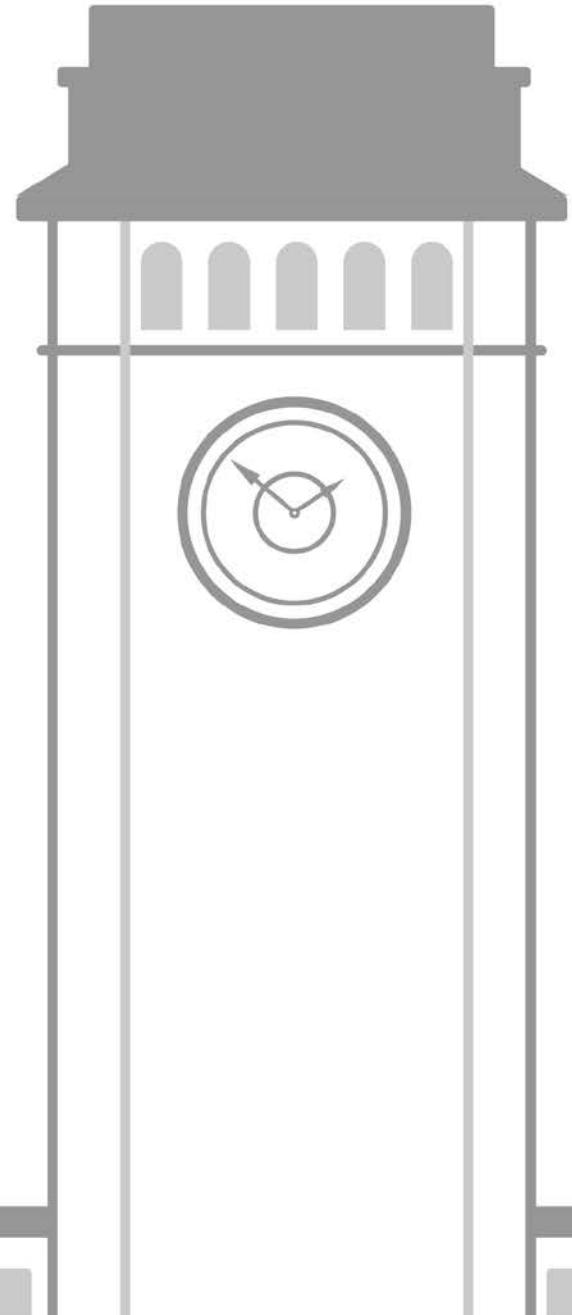
KEG<sup>15</sup>  
May 3-8, 2015  
Twin Cities, MN



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# Bridging the GAP



# Introduction

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- Unus Gaffoor
  - Consulting and used to be developer
    - Visiting from Australia before going to Canada then watching my son-law compete at the Worlds BJJ championship in LA



# Agenda

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- What is Bridging
  - Focus on an example
    - Introduce the use of a jQuery ui table
- Using tables
  - Focus on an example applying a YUI table
- Learn by playing
  - Build against LDAP



# What is Bridging

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- What is Bridging
  - Kinetic Bridging is a strategy for utilizing distributed and disparate data systems within Kinetic Products.
  - Resolves cross-domain restrictions
  - The goal is to abstract the interaction with the different data systems into a single, standardized bridging interface.
  - [About Bridging](#)

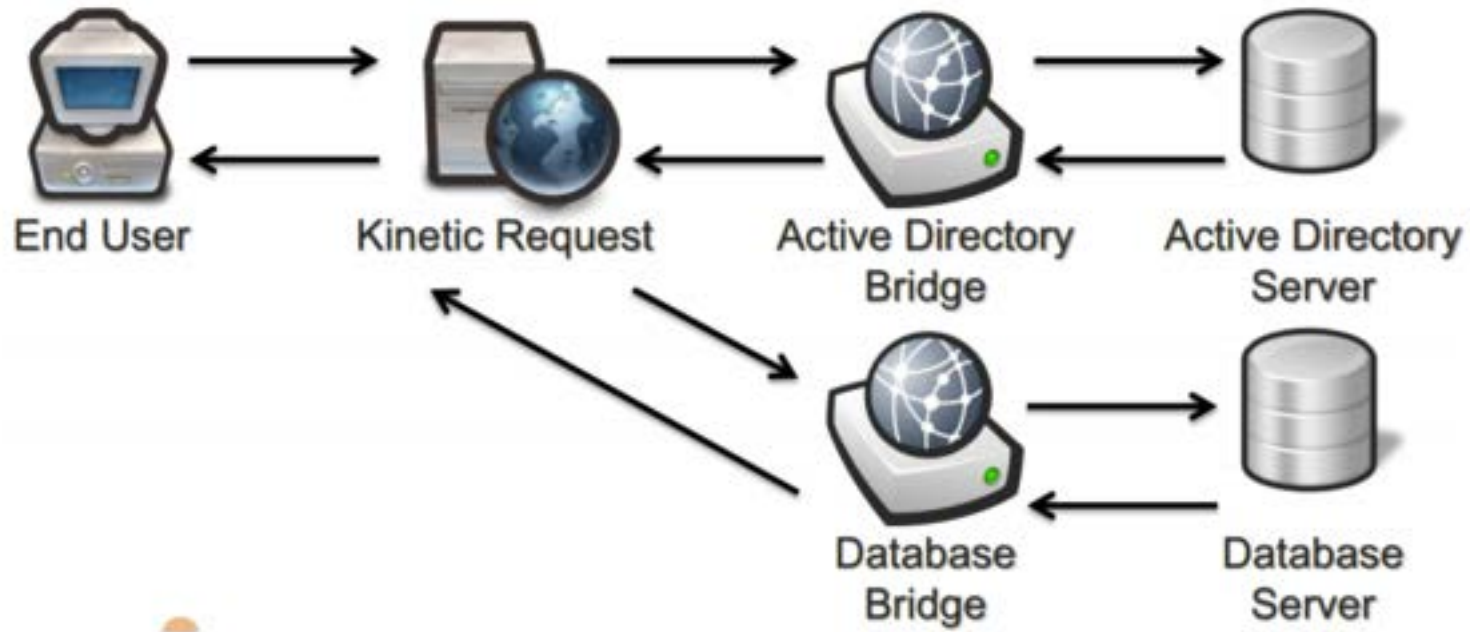


# What is Bridging

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## Architecture



# A Bridging example

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- Sample Bridging ARS
  - Using ARS Bridge Adapter
  - Run the request to see Bridging in action
  - Load the Sample Bridging ARS template



# A Bridging example

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- Sample Bridging ARS
  - Dynamic defaults (User details)
    - Load based on user id
  - Populate Menu (Companies)
    - Load with page load event
  - Load table based on Company
    - onchange event calls company people
    - Use the result of a Bridge call via Javascript to load a jQuery table





# A Bridging example

- Sample Bridging ARS

- Load table based on Company

- `var connector = new KD.bridges.BridgeConnector();`

- `connector.search('SAMPLE People', 'All', {`

- `success: function(search) {`

- `processCompanySelection(search);`

- `}`

- `});`



# A Bridging example

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## ■ Sample Bridging ARS

- ```
<link rel="stylesheet" type="text/css" href="themes/responsive/libraries/jquery/jquery.dataTables.css" />
<script type="text/javascript" src="themes/responsive/libraries/jquery/jquery.dataTables.min.js"></script>
<script>
var companyPeopleRecords=[];

function processCompanySelection(search){
  companyPeopleRecords = search.toObject().records;
  $('#companyPeople').dataTable( {
    "data": companyPeopleRecords,
    "columns": [
      { "title": "Company" },
      { "title": "Email" },
      { "title": "First Name" },
      { "title": "Last Name" },
      { "title": "Login ID" }
    ]
  });
}
</script>
```



# A Bridging example

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- Community references
  - [Bridges](#)



# A Table example

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- Sample Firewall Change Request
  - Demonstrating the use of tables within a service item
  - Using YUI table (any table widget could be used)
  - Allows adding multiple rows
  - Modify rows
  - Delete rows
  - Stores results as JSON



# A Table example

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- Sample Firewall Change Request
  - JSON for table stored as a question
  - JSON in question can be used to display table in Review mode.
  - JSON can be used to traverse with the Task tree
  - Run the Firewall Change Request template



# A Table example

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- Community references
  - [Using a Bridge Search to Populate Questions using a YUI Table](#)
  - [Using a Bridge Search to Populate Questions using a Mobile Friendly Table](#)
  - [What to do with answers placed in a Table](#)
    - [Send Table in email](#)
    - [Loop through one column](#)
    - [Place Table as CSV in item for reporting purposes](#)
    - [Loop Through Rows](#)



# Take a break

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# Build an Ldap sample

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- Objective
  - Leverage an installed LDAP on matrix
  - Build a service item
    - Load a menu of people
    - On selection from menu display person details





# Build an Ldap sample

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- Validate Bridge installed
  - [matrix.kineticdata.com/kineticLdapBridge](https://matrix.kineticdata.com/kineticLdapBridge)
    - Log in
      - admin/admin



# Build an Ldap sample

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- Configure Bridge models
  - Open Kinetic Bridge Manager
    - Let's configure Ldap bridge details step by step

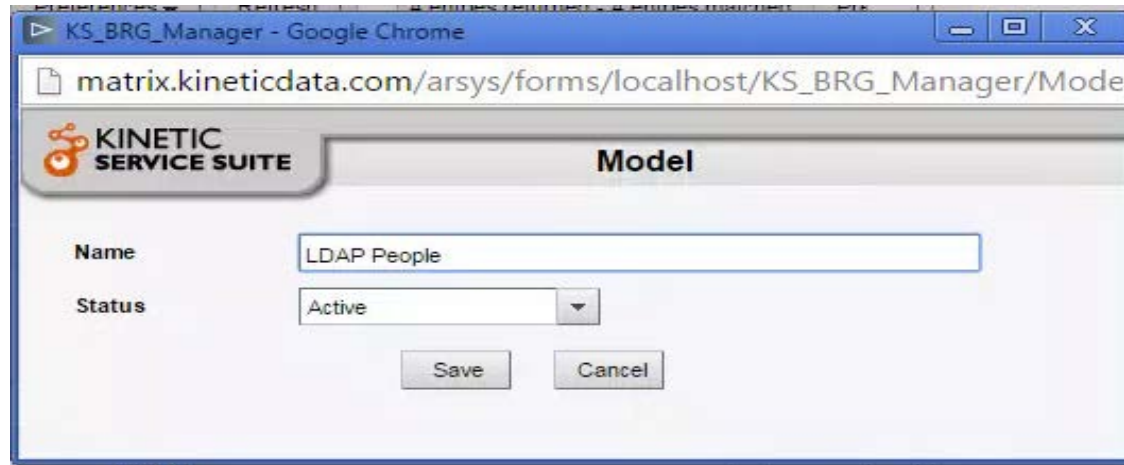


# Build an Ldap sample

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- Configure Bridge models
  - Structures (Models)
    - Add new Model (LDAP People)



The screenshot shows a web browser window titled "KS\_BRG\_Manager - Google Chrome" with the URL "matrix.kineticdata.com/arsys/forms/localhost/KS\_BRG\_Manager/Mode". The page header includes the "KINETIC SERVICE SUITE" logo and the title "Model". The form contains the following fields:

- Name:** A text input field containing "LDAP People".
- Status:** A dropdown menu currently set to "Active".
- Buttons:** "Save" and "Cancel" buttons are located below the form fields.

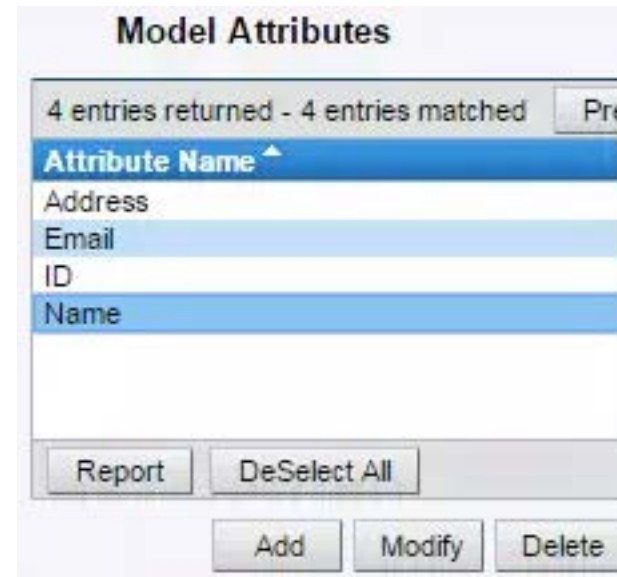


# Build an Ldap sample

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- Configure Bridge models
  - Structures (Model Attributes)
    - Add (Address, Email, ID, Name)



# Build an Ldap sample

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- Configure Bridge models
  - Structures (Qualifications)
    - Add (All, ID)

**Qualifications**

2 entries returned - 2 entries matched Preferences ▾ Refresh

| Qualification Name ^ | Result Type |
|----------------------|-------------|
| All                  | Multiple    |
| by ID                | Single      |

Report DeSelect All

Add  
Modify  
Delete



# Build an Ldap sample

KINETIC DATA

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- Configure Bridge models
  - Structures (Qualification Parameters)
    - Add (ID)

Qualification Parameters

1 entries returned - 1 entries matched

Preferences ▼ Refresh

| Parameter Name ^ | Notes |
|------------------|-------|
| ID               |       |

Report DeSelect All

Add  
Modify  
Delete



# Build an Ldap sample

KINETIC DATA

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- Configure Bridge URL
  - Bridges (Bridges)

The screenshot shows the Kinetic Service Suite interface for configuring a bridge. The browser window title is "KS\_BRG\_Manager - Google Chrome" and the URL is "matrix.kineticdata.com/arsys/forms/localhost/KS\_BRG\_Manager/BridgeE". The page title is "Bridge". The left sidebar shows a list of bridges, with "Ldap - Unconfigured" selected. The main form contains the following fields:

|             |                                                                             |  |
|-------------|-----------------------------------------------------------------------------|--|
| Bridge Name | <input type="text" value="Ldap - Unconfigured"/>                            |  |
| Bridge URL  | <input type="text" value="http://127.0.0.1:80/kineticLdapBridge/api/1.0/"/> |  |
| Status      | <input type="text" value="Active"/>                                         |  |

At the bottom of the form are "Save" and "Cancel" buttons.

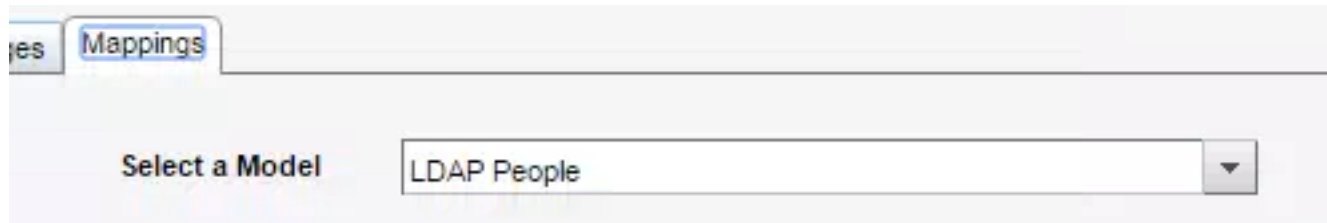


# Build an Ldap sample

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- Configure Mappings
  - Mappings (Select Model – LDAP People)



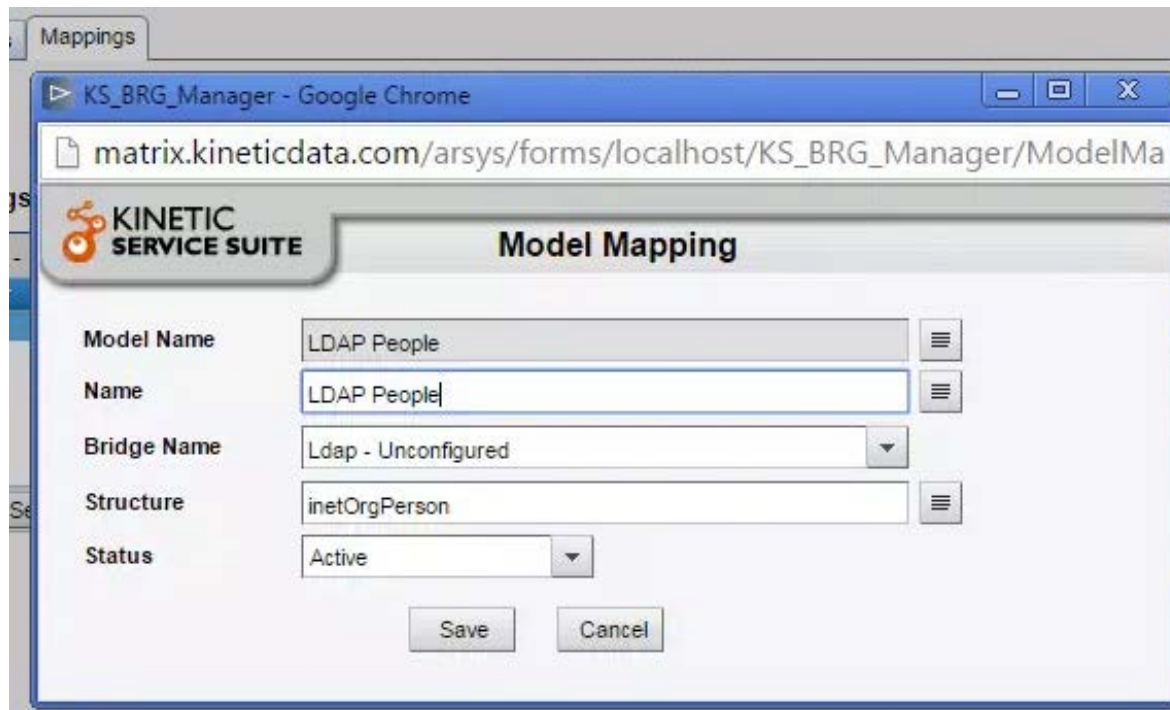


# Build an Ldap sample

KINETIC DATA

Your business. Your process.

- Configure Mappings
  - Mappings (Model Mappings)



The screenshot shows a web browser window titled "KS\_BRG\_Manager - Google Chrome" with the URL `matrix.kineticdata.com/arsys/forms/localhost/KS_BRG_Manager/ModelMa`. The page displays the "KINETIC SERVICE SUITE" logo and the "Model Mapping" form. The form contains the following fields:

|             |                     |   |
|-------------|---------------------|---|
| Model Name  | LDAP People         | ⋮ |
| Name        | LDAP People         | ⋮ |
| Bridge Name | Ldap - Unconfigured | ▼ |
| Structure   | inetOrgPerson       | ⋮ |
| Status      | Active              | ▼ |

At the bottom of the form are "Save" and "Cancel" buttons.

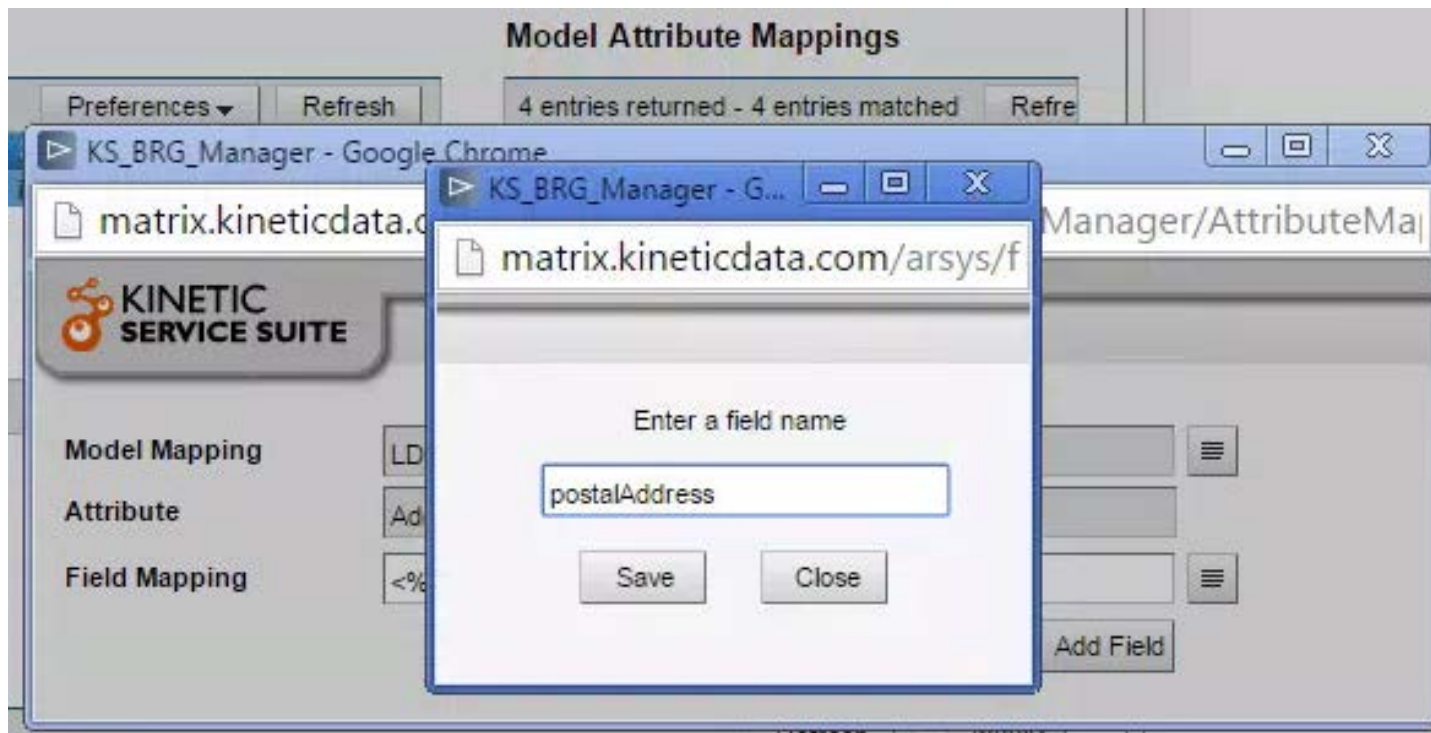


# Build an Ldap sample

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- Configure Mappings
  - Mappings (Model Attribute Mappings)



# Build an Ldap sample

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- Configure Mappings
  - Mappings (Model Attribute Mappings)
    - Add
      - postalAddress
      - mail
      - uid
      - displayName

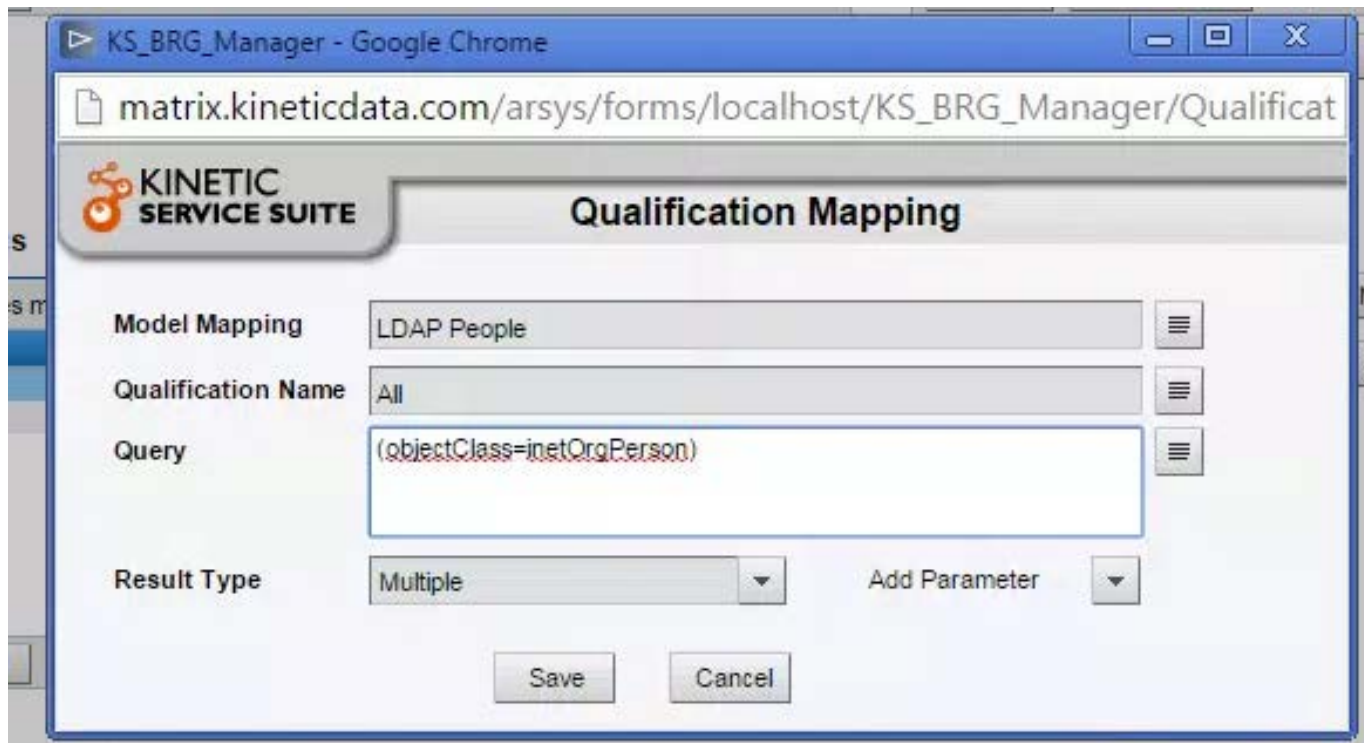


# Build an Ldap sample

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- Configure Mappings
  - Mappings (Qualification Mappings - All)



The screenshot shows a web browser window titled "KS\_BRG\_Manager - Google Chrome" with the URL "matrix.kineticdata.com/arsys/forms/localhost/KS\_BRG\_Manager/Qualificat". The page displays the "KINETIC SERVICE SUITE" logo and the "Qualification Mapping" form. The form includes the following fields:

- Model Mapping:** LDAP People
- Qualification Name:** All
- Query:** (objectClass=inetOrgPerson)
- Result Type:** Multiple

At the bottom of the form, there are "Save" and "Cancel" buttons. The "Add Parameter" dropdown menu is also visible.

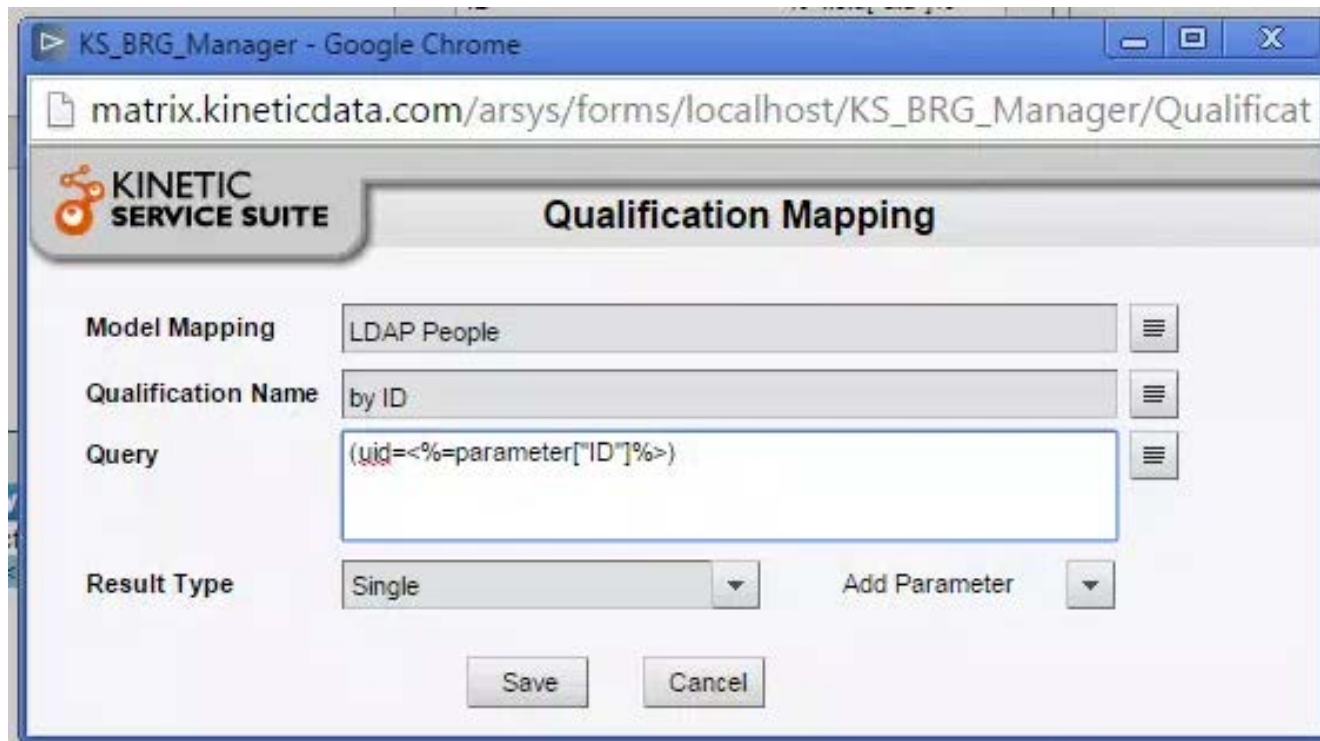


# Build an Ldap sample

KINETIC DATA

Your business. Your process.

- Configure Mappings
  - Mappings (Qualification Mappings - ID)



The screenshot shows a web browser window titled "KS\_BRG\_Manager - Google Chrome" with the URL "matrix.kineticdata.com/arsys/forms/localhost/KS\_BRG\_Manager/Qualificat". The page header includes the "KINETIC SERVICE SUITE" logo and the title "Qualification Mapping". The form contains the following fields:

- Model Mapping:** LDAP People
- Qualification Name:** by ID
- Query:** (uid=<%=parameter["ID"]%>)
- Result Type:** Single

There is an "Add Parameter" button next to the Result Type field. At the bottom of the form are "Save" and "Cancel" buttons.

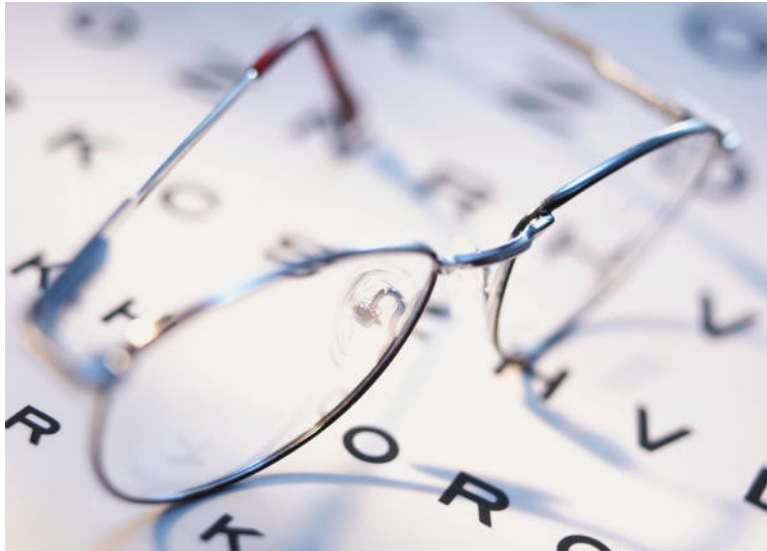


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- Let's double check our configuration



# Build an Ldap sample

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- Let's build a Service item
  - Let's first have a look at what we will achieve



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- Create a new Template
  - Create under Responsive Catalog
    - Name : LDAP People
    - Display JSP : /themes/response/packages/catalog/service.jsp
    - Add 4 Questions
      - People (List)
      - Name
      - Email
      - Address





# Build an Ldap sample

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- Create a new Template
  - Add load event to populate People menu

The screenshot shows a web browser window titled "KS\_SRV\_ClientEvent\_Dialog - Google Chrome" with the URL "matrix.kineticdata.com/arsys/forms/localhost/KS\_SRV\_ClientEvent\_Dialog/Menu/". The page header includes the "KINETIC REQUEST" logo and the title "Menu".

The form contains the following fields and options:

- Event:** A dropdown menu set to "load".
- Status:** A dropdown menu set to "Enabled".
- Action:** A text field containing "Populate Menu".
- Action Name:** A text field containing "Load People".
- Description:** An empty text area.
- Fire Event If:** A section with an empty text field, a dropdown for "If Statements", and a dropdown for "Operators".
- Attach Menu To:** A dropdown menu set to "People".
- Use Bridging:** A checked checkbox.
- Model:** A dropdown menu set to "LDAP People".
- Qualification:** A dropdown menu set to "All".
- Label:** A dropdown menu set to "Name".
- Value:** A dropdown menu set to "ID".

At the bottom of the form, there is a status bar showing "0 entries returned - 0 entries matched" and buttons for "Preferences", "Refresh", "Modify", and "Clear". Below the status bar is a table with the following structure:

| Parameter Name | Parameter Value | Notes |
|----------------|-----------------|-------|
|----------------|-----------------|-------|

# Build an Ldap sample

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- Create a new Template
  - Create onchange event to load person details

The screenshot shows the 'Set Fields' configuration page in Kinetic Request. The event is set to 'change' and is enabled. The action is 'Set Fields - External' with the name 'Set Person Details'. The model is 'LDAP People' and the qualification is 'by ID'. The 'Use Bridging' checkbox is checked.

Parameter Value Table:

| Parameter Name | Parameter Value          | Notes |
|----------------|--------------------------|-------|
| ID             | <FLD>People;KSGAAC47BIW3 |       |

Questions Table:

| Sort Order | Question | Value                         | Visible In Table |
|------------|----------|-------------------------------|------------------|
| 1          | Email    | <%=attribute["Email"]%> Yes   | Yes              |
| 2          | Name     | <%=attribute["Name"]%> Yes    | Yes              |
| 3          | Address  | <%=attribute["Address"]%> Yes | Yes              |

# Build an Ldap sample

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- Create a new Template
  - Let's save and test



# Build an Ldap sample

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- Community references
  - [Tutorial: Bridging with LDAP](#)



# Farewell

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- Thank you

