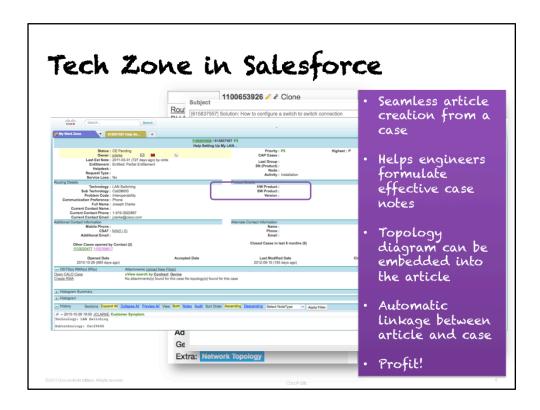


- Used Node.js and NoSQL to build a live streaming list of threads relevant to the engineer
 - Relevant is determine by talking to a skills profile that maintains a list of engineers' technology skills
 - Thread data is fetched using the Lithium REST API and cached so that one can click the '+' icon to view post details without going to Tech Zone



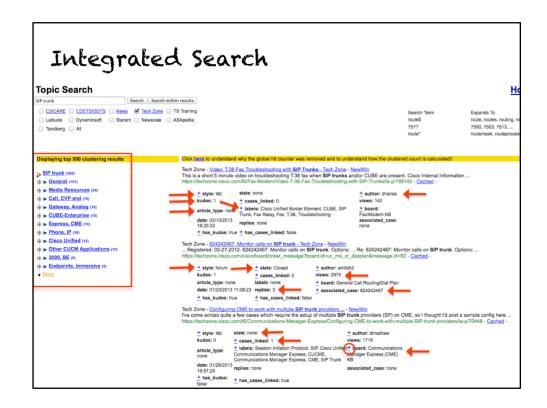
- Data is pushed from Salesforce into Tech Zone using HTTP POST parameters
- Within Tech Zone, and "invisible" widget is added to the TKB Editor page that intercepts the HTTP POST arguments using Lithium's expanded Freemarker
 - E.g.: <#assign symptom = http.request.parameters.name.get("symptom", "")?replace("'", "\\")?replace("\r", "")?replace("\n", "
") />
- Inserting data into TinyMCE editors can be a bit tricky. Here is what we ended up doing:

```
tinyMCE.onAddEditor.add(function(mgr, ed) {
    ed.onInit.add(function(ed) {
        if (ed.id == 'tinymceeditor') {
            $('.lia-message-template-symptoms-zone').find('.lia-drag-content').prepend('$ {symptom}');
    }
}
```



- Invisible widgets (using Studio) were added to various TKB pages that leverage iQuery to insert objects into the DOM.
- This allows us to add things at specific places even when the quilt is not that flexible
- The external publication queue is serviced by an off-box script that periodically connects to Tech Zone and uses a custom endpoint to pull the metadata that contains the list of articles to be published:

```
<#assign user_has_role = false />
<#list restadmin("/users/id/${user.id?c}/roles").roles.role as role>
    <#if role.name?? && ((role.name == "Administrator"))>
        <#assign user_has_role = true />
        </#if>
</#list>
<#if user_has_role>
        <#assign publish_list = restadmin("/settings/name/cisco.publish_list").value />
        result>${publish_list}</result>
</#if>
```



- To add the metadata needed to enrich our internal search engine, we used Studio to insert HTML META tags into the page HEAD section (in Wrapper)
- For example:

```
<META NAME="views" CONTENT="${views}">

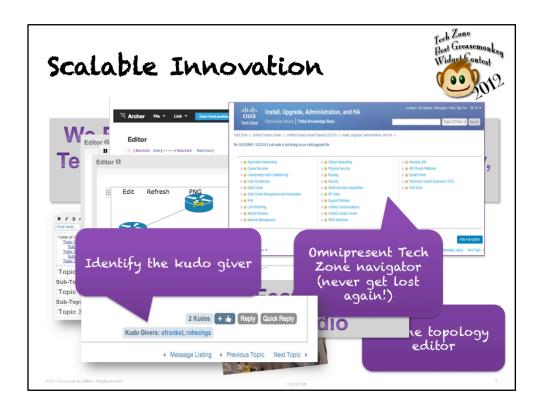
<META NAME="date" CONTENT="${date?string("MM/dd/yyyy HH:mm:ss")}">

<META NAME="lastupdatedate" CONTENT="${date?
string("yyyyMMddHHmmss'+00"00"")}">

<META NAME="searchdate" CONTENT="${date?string("dd MMM yyyy HH:mm:ss")}">

<META NAME="board_id" CONTENT="/boards/id/${coreNode.id}">

<META NAME="collection" CONTENT="Tech Zone">
```



- Greasemonkey is a great way to test changes to a Lithium community since they are local
- However, since Studio allows one to create components that are nothing but jQuery blocks, it is trivial to port Greasemonkey scripts as native Studio widgets



- Using Studio, we created a completely customized page that users without the appropriate roles are forced to see
- Within the Tech Zone Wrapper (configured within Studio) there is a check to see what roles the user has
- If a specific role does not exist, they are automatically redirected to the authorization request page
- The Wrapper made it easy to put this on every page within Tech Zone
- Code:

```
<#assign has role = false />
<#assign roles = restadmin("/users/id/${user.id?c}/roles").roles.role />
<#if roles?size == 0>
 <#assign has role = true />
<#else>
 <#list restadmin("/users/id/${user.id?c}/roles").roles.role as role>
  <#if role.name?? && ((role.name == "4") || (role.name?matches("DSC_.*")))>
   <#assign has_role = true />
  </#if>
 </#list>
</#if>
<#if! has role && page.name!= "TechZoneAccessRequest">
<@liaAddScript>
window.location = "/t5/custom/page/page-id/TechZoneAccessRequest";
</@liaAddScript>
</#if>
```

