

What's new in SharePoint Search 2010 for end users

IW109

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About Mirjam



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Agenda

- ▶ Overview of Enterprise Search in 2010
- ▶ Improvements to the user interface
- ▶ Social Search
- ▶ Customise the search UI

Enterprise Search from Microsoft in 2010



Microsoft®
Search Server 2010
Express

Quick, easy, powerful
search (free)



Microsoft®
SharePoint® Server 2010

Complete intranet
search



Microsoft®
FAST™ Search Server 2010
for SharePoint®

High-end search delivered
through SharePoint

FAMILY VALUES

- Common UI Framework
- Social search features and integration
- SharePoint platform integration
- End user and site administrator enablement
- Common Connector Framework (BDC)
- APIs and developer experience
- Admin & deployment capabilities
- Operations advantages (SCOM, scripting)

Search Technology Concepts

Concepts

Search Center - UI for users to issue queries and interact with results

Query Servers - Accept query requests from users and return results

Query Federation - Return results from non-SharePoint Indexes

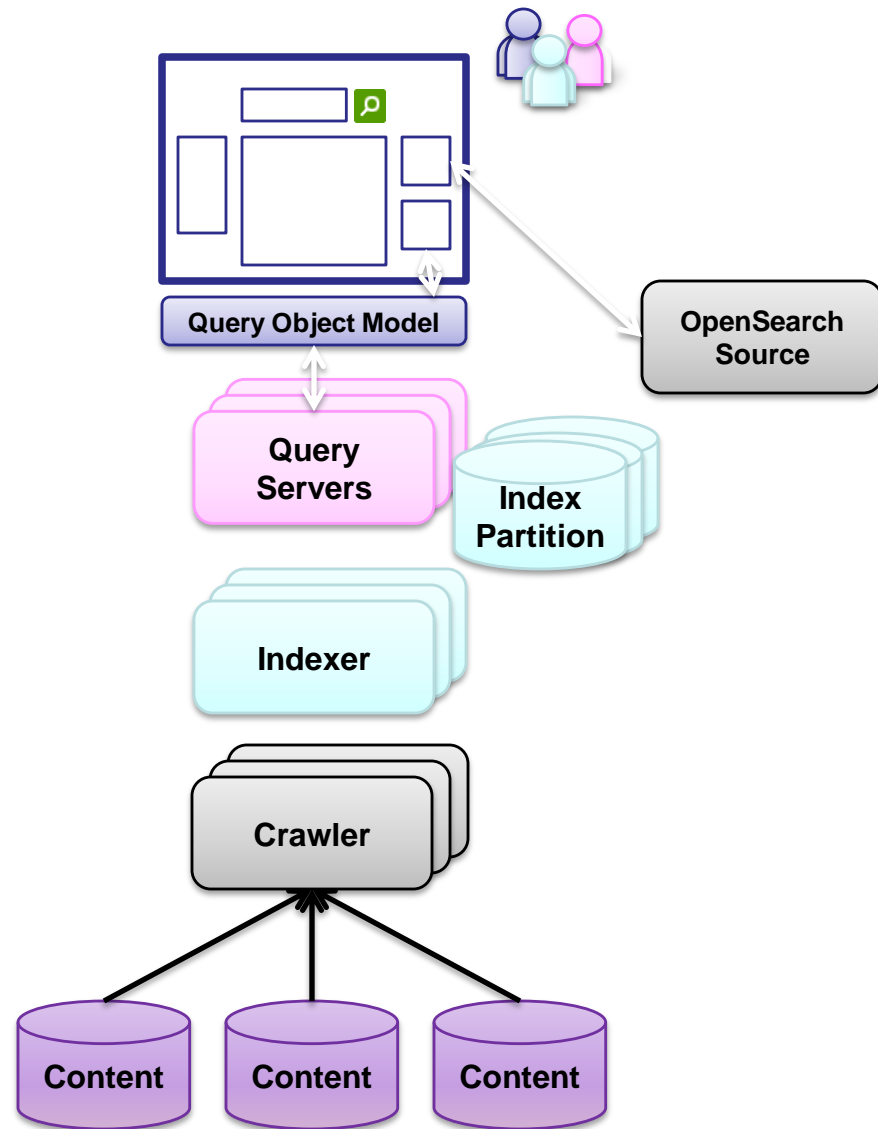
Indexing - Extract information from items to enable efficient matching

Index Partition - Subset of the overall index

Crawling - Traverse URL space to record items in search catalog

Connectors - Know how to process different content sources

Content Sources - Host the content we want to return in main results



IMPROVEMENTS TO THE USER INTERFACE

End-User UI

▶ Out-of-box refinement

- Refine over key results properties
- Metadata, taxonomy and social tags based results refinement
- Easy to extend over custom properties

▶ One-stop Search Center

- Scopes, web parts, best bets, advanced search
- Query federation - native support for OpenSearch

▶ Core search experience

- Improved *did you mean* suggestions
- New pre-query and post related query suggestions
- “*View in browser*” link (for most office docs)
- Improved query syntax

End-User UI

- ▶ Improved relevance ranking
 - URL fuzzy matching, social tags, results click through, implicit phrase matching, extracted metadata, etc.
 - Improved low-noise snippets in summaries
- ▶ Enhanced multi-lingual support
 - Automatic detection of language of many document types and part of documents
 - Compound word handling - e.g., "vulkaanuitbarsting" and "vulkaan", "uitbarsting"
 - Improved ranking of documents in multilingual collections
 - Manual selecting of language to use at query time

New Query Syntax

- ▶ Support for Boolean operators for FreeText queries and Property queries
 - (“SharePoint” OR “Bing”) AND (title:“Keyword Syntax” OR title:“Query Syntax”)
- ▶ Prefix matching for keywords and properties
 - Micro* author:bill*
- ▶ Improved operator support for property restrictions
 - =, >, <, <=, >=
 - Can create range refinements

Great Search Experience OOB

Get more relevant results

through a search center with hit highlighting, results summaries, related queries, and enhanced query syntax

Find information faster

with metadata-driven refinement, query suggestions, search scopes, and federated results which help pinpoint information

Search from anywhere

Including mobile and desktop integration; Office Web Apps speed access to results; enhancements for multi-lingual

The screenshot shows a SharePoint search results page for the query "sharepoint". The page includes a search bar, a results list, and a refinement panel. Annotations highlight key features:

- Win7 Connector**: Points to the search bar area.
- Related searches**: Points to the "Related Searches" section on the right, which includes "SharePoint Foundation 2010" and "SharePoint Server 2010".
- Launch in Office Web Apps**: Points to a document result titled "Feature Upgrade in Windows SharePoint Services '14'".
- Refinement panel**: Points to the left sidebar, which includes filters for "Result Type", "Site", and "Author".
- Federated results**: Points to the "People Matches" section on the right, which lists users like "Todd Carter" and "Vesa Juvonen".

The search results list contains three items:

- Feature Upgrade in Windows SharePoint Services "14"**: A document with authors Kimmo Forss and Jamescro, dated 1/20/2010, size 298KB. URL: <http://sp14/ignite/Documents/Feature Upgrade in Windows SharePoint Services 14.docx>
- "Digital Asset Management" in Microsoft SharePoint Server "14"**: A document with authors James Petrosky and Ken Milne, dated 1/20/2010, size 2MB. URL: <http://sp14/ignite/Documents/Digital Asset Management in SharePoint Server 14.docx>
- Manageability Features in Microsoft SharePoint Server "14": Support for Windows Identity, Hosting, and SharePoint Services**: A document with authors Steve Peschka and Smkhor, dated 1/1/2009, size 75KB. URL: <http://sp14/ignite/Documents/SharePoint Server 14 Manageability Features.docx.docx>

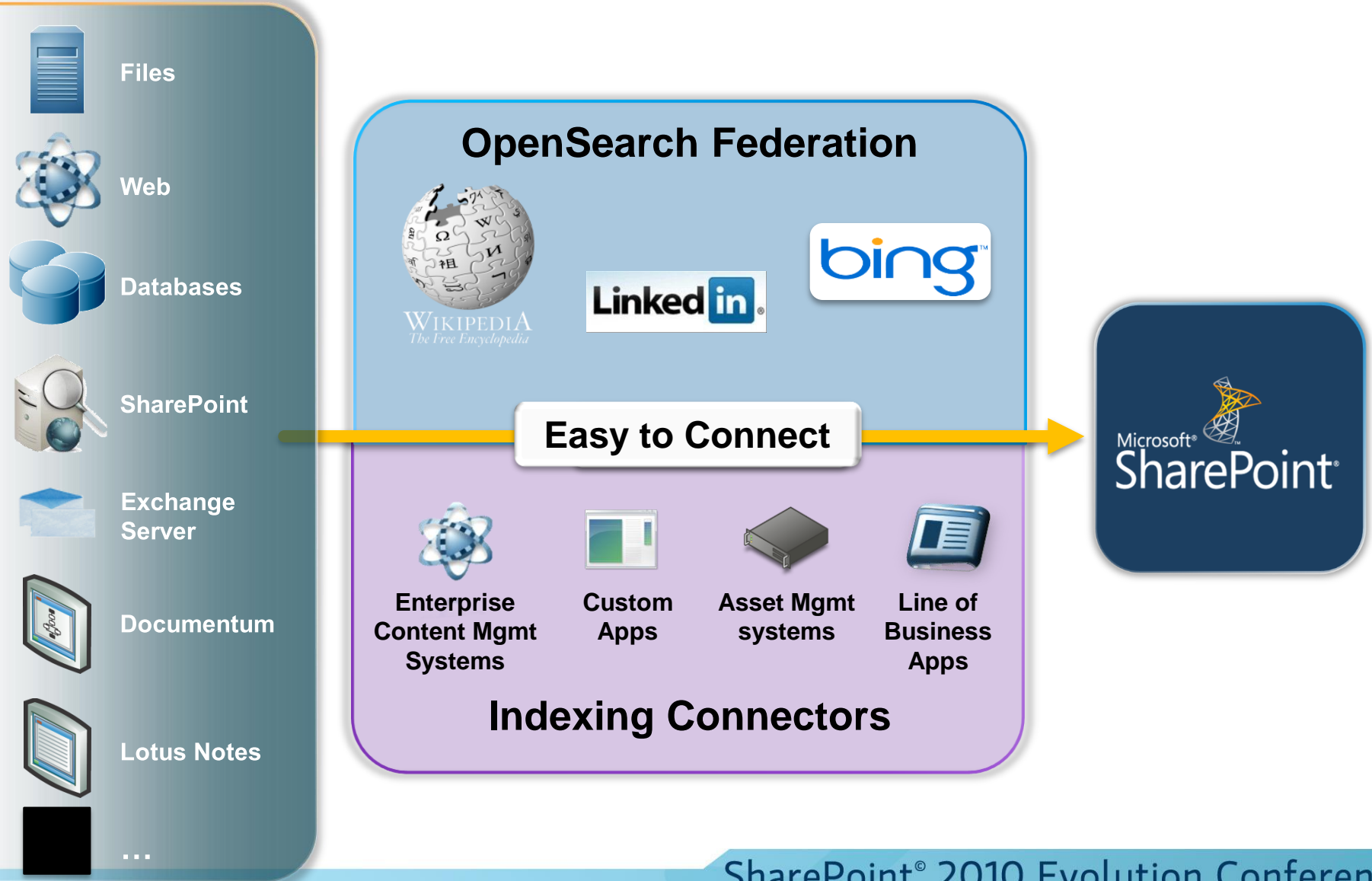
Search Federation

▶ Query Federation

- Bring external search results into the SharePoint experience
- Based on Open Search standard
- Exposed through UI + public federation Object Model
 - Enables scenarios like Bing and Yahoo, could even be extended to scenarios like custom web services

Search Federation

Connect to information outside of SharePoint



Demo

IMPROVEMENTS TO THE USER INTERFACE

SOCIAL SEARCH

Search is Social

▶ People finding experience

- Front door to the office social network
- Better expertise & interest search
 - Email mining to bootstrap profiles with interests and colleagues
- “Address book style” search
 - Phonetic name matching
 - Nickname matching
- Relevance models tuned specifically for people search
- Metadata refinement, better hit highlighting, recently authored content

Amplify Impact of Knowledge & Expertise

Connect with expertise

using improved matching from mined Outlook mailbox data and SharePoint My Site profiles

Improve relevance with use

based on how people tag content in SharePoint and on click-through of search results

Find people

through nickname and phonetic matching, people specific refinement, tuned relevance models

The screenshot shows a SharePoint search results page for the query 'sharepoint'. The page displays three search results for people. Annotations in blue boxes with arrows point to specific features:

- Refine by focus, expertise, and other attributes:** Points to the 'View' sidebar on the left, which includes filters for 'All Matches', 'Name Matches', 'Profile Matches', 'Ask Me About', 'Any Ask Me About', 'SharePoint', 'Development', and 'C#'. There is also a 'show more' link.
- Phonetic and nickname matching:** Points to the search bar containing the text 'sharepoint'.
- Recently authored content:** Points to the 'By Todd Carter' link in the search results for Todd Carter.
- Expertise identification:** Points to the 'Ask Me About' section for Todd Carter, which lists 'SharePoint::SharePoint Designer::Development:C++:C#'. It also points to the 'Ask Me About' section for Vesa Juuri, which lists 'SharePoint::Development:C#:ASP.NET:Content Types'.

The search results shown are:

- Todd Carter** (Engineering, Las Colinas):
 - Ask Me About: I like working on inserting nefarious and difficult to find bugs into the core IIS stack.
 - Ask Me About: SharePoint::SharePoint Designer::Development:C++:C#
 - Links: Add as colleague, Browse in organizational chart, By Todd Carter
- Vesa Juuri** (Engineering, Helsinki):
 - Ask Me About: software development and my stuff on TechNet
 - Ask Me About: SharePoint::Development:C#:ASP.NET:Content Types
 - Links: Browse, By Vesa
- Chris Gideon** (Security, Las Colinas):
 - Ask Me About: I work to make security better for SharePoint.
 - Ask Me About: SharePoint::Security::Kerberos::NTLM::Claims ...
 - Links: Add as colleague, Browse in organizational chart, By Chris Gideon









Search Use in Social Data Delivery

► Search is used for data retrieval and trimming in other SharePoint social features

Feature	Action	Query
My Site Host home page	What's New web part	Retrieves up to 40 recent activities from colleagues
Profile Page (person.aspx)	Recent Activities web part	Retrieves up to 10 recent activities for user
Tags and Notes page	Activities for Month web part	Retrieves up to 40 tags or notes based on activities for the specified month for user
Outlook Social Connector	OSC synchs every hour for every user. The response sends updates for colleagues since the last time OSC synched	Retrieves all recent (since the last synch) activities from colleagues

Search Depends on Social

- ▶ Some of the functionality in Search also depends on data from Social
- ▶ Only difference between SS and FS for social FS doesn't index social tags

Feature	SS	FS
Core Results Page showing social tags (up to 5) for search results		
Core Results Page Refinement by social tags		
Core Results Page Refinement by Taxonomy data / Authoritative tags		
All features on the people search tab - searching for people, searching for expertise, refining by people properties etc.		

Demo

Demo

SOCIAL SEARCH

- ▶ Adjusting the search user interface without custom code

CUSTOMISE THE SEARCH UI

Customise Search using the UI

- ▶ Edit the pages in the search center
- ▶ Add your own scopes and tabs
- ▶ Scopes can be based on
 - Web Address
(<http://portal.sharepoint.com/sites/evolution>)
 - Managed Property (author = mirjam)
 - Content Source

Customise Search using the UI

- ▶ Customise results to highlight metadata that matters
- ▶ Change web part properties – no code
 - Modify XSLT
 - Modify config XML
 - Refinement panel – control metadata available for refinement
 - Advanced search – control metadata available for advanced search queries

Get raw search results XML

```
<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">

  <xsl:output method="xml" version="1.0" encoding="UTF-8" indent="yes"/>

  <xsl:template match="/">
    <xsl:copy-of select="*" />
  </xsl:template>

</xsl:stylesheet>
```

```
<?xml version="1.0" encoding="utf-8"?>
<All_Results>
  <Result>
    <id>1</id>
    <workid>858</workid>
    <rank>73216292</rank>
    <title>Opportunity Management</title>
    <author_multival>System Account</author_multival>
    <author_multival>Ryan</author_multival>
    <author>System Account;Ryan</author>
    <confidentiality>All Audiences</confidentiality>
    <size>412558</size>
    <url>http://portal.sharepoint.com/sites/EcmAllUp/Docs/Documents/XJ7000 Sales Flyer.docx</url>
    <urlEncoded>http%3A%2F%2Fportal%2Esharepoint%2Ecom%2Fsites%2FEcmAllUp%2FDocs%2FDocuments%2FXJ7000%20Sales%20Flyer%2Edocx</urlEncoded>
    <description></description>
    <write>11/4/2009</write>
    <sitename>http://portal.sharepoint.com/sites/EcmAllUp/Docs/Documents</sitename>
    <collapsingstatus>1</collapsingstatus>
    <hithighlightedsummary> A major portion of a <c0>sales</c0> representative's world revolves around pursuing leads a
    <withhighlightedproperties>
```

Add XML as datasource





The screenshot displays the SharePoint 2010 user interface. At the top, the ribbon includes tabs for 'Data Views & Forms' and 'Controls'. The 'Data Views & Forms' tab is active, showing options like 'New Item Form', 'Edit Item Form', and 'Display Item Form'. The 'Controls' tab shows 'Data Source', 'Web Part', 'Web Part Zone', and 'Symbol'. Below the ribbon, the 'Data Source Details' pane is open, showing 'Current Data Source: Data source properties...'. The 'All Results' list is visible, with columns for 'id', 'workid', 'rank', 'title', 'author_multival', 'author', 'confidentiality', 'size', 'url', 'urlEncoded', and 'description'. The 'Related Data Sources' pane is also visible. On the right, the 'All Data Sources' pane is open, showing a list of data sources including 'Workflow Tasks', 'Document Libraries', 'Customized Reports', 'Form Templates', 'Shared Documents', 'Site Assets', 'Site Collection Documents', 'Site Collection Images', 'Site Pages', 'Style Library', and 'XML Files'. The 'XML Files' section is expanded, showing 'results.xml' and a 'More Data Sources...' link. A tooltip is visible over the 'SPXmlDataSource - SPXmlDataSource1' entry in the 'All Data Sources' pane, displaying the URL: 'SharePoint:SPXmlDataSource#SPXmlDataSource1'.

Adjust results in SPD

Portal > Site Pages > SearchResults.aspx > Advanced Editor

```
32 <ParameterBinding Name="UserID" Location="CAMLVariable" DefaultValue="CurrentUserName"/>
33 <ParameterBinding Name="Today" Location="CAMLVariable" DefaultValue="CurrentDate"/>
34 </ParameterBindings>
35 <DataFields>id;workid;rank;title;author_multival;author;confidentiality;size;url;urlEncoded;description;write;sitename;coll
36 <Xsl>
37 <xsl:stylesheet version="1.0" exclude-result-prefixes="xsl msxsl ddwrt" xmlns:ddwrt="http://schemas.microsoft.com/WebParts/
38 <xsl:output method="html" indent="no"/>
39 <xsl:decimal-format NaN=""/>
40 <xsl:param name="dvt_apos">'</xsl:param>
41 <xsl:param name="ManualRefresh"></xsl:param>
42 <xsl:param name="FileName" />
43 <xsl:variable name="dvt_1_automode">0</xsl:variable>
44
45 <xsl:template match="/" xmlns:asp="http://schemas.microsoft.com/ASPNET/20" xmlns:__designer="http://schemas.microsoft.c
46 <xsl:choose>
```

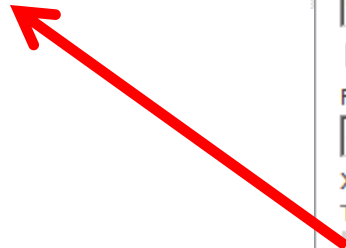
ScriptManager - ScriptManager

	Title: Opportunity Management Author: System Account Ryan Confidentiality: All Audiences		Title: The Vulcan Author: Tai Lee Confidentiality:
	Title: LOB Connectivity Customization for Ofx Author: System Account Thomas Coon Confidentiality:		Title: Opportunity Management Author: System Account Sangya Singh Confidentiality: Internal Only - All FTEs

Copy SPD XSLT to Web Part

```
Text Editor -- Webpage Dialog
</xsl:if>
</table>
</td>
<xsl:if test="position() mod 2 = 0" ddwrt:cf_igno
re="1">
<xsl:text disable-output-escaping="yes">&
lt;/tr&gt;</xsl:text>
<xsl:if test="position() != last()" ddwr
t:cf_ignore="1">
<xsl:text disable-output-escaping
="yes">&lt;tr&gt;</xsl:text>
</xsl:if>
</xsl:if>
<xsl:if test="position() = last()" ddwrt:cf_ignor
e="1">
<xsl:if test="position() mod 2 != 0" ddwr
t:cf_ignore="1">
```

```
<xsl:stylesheet>
....
</xsl:stylesheet>
```



Search Core Results

Core Results

- + Location Properties
- Display Properties

Default Results Sorting

Relevance

Results Per Page

30

Limit Characters In Summary

Characters In Summary

185

Limit Characters In URL

Characters In URL

90

Use Location Visualization

Fetches Properties

<Columns> <Column Nar

XSL Editor

To add XSL, click **XSL Editor**.

XSL Editor...

Parameters Editor

To change parameters, click **Parameters Editor**.

Parameters Editor...



All Sites People Business Data Sales

gear

- Result Type
 - Any Result Type
- Word
- PowerPoint
- Site
 - Any Site
 - portal.sharepoint...
- Author
 - Any Author
 - System Account
 - Ryan
 - Tai Lee
 - Thomas Coon
 - show more
- Modified Date
 - Any Modified Date
 - Past Six Months

1-9 of 9 results



	Title: Opportunity Management Author: System Account Confidentiality: Internal Only - All FTEs		Title: Opportunity Management Author: System Account Confidentiality: Internal Only - All FTEs
	Title: XJ3000 Gear Announced Author: System Account Confidentiality:		Title: XJ2000 Gear Announced Author: System Account Confidentiality: All Audiences
	Title: XJ3000 Gear Announced Author: System Account Confidentiality: All Audiences		Title: XJ2000 Gear Announced Author: System Account Confidentiality: All Audiences
	Title: The Vulcan Author: Tai Lee Confidentiality: All Audiences		Title: Contoso Plus Trey Beating the Competition Author: Tai Lee Confidentiality: All Audiences
	Title: LOB Connectivity Customization for Ofx Author: System Account Confidentiality:		

Demo

CUSTOMISE THE SEARCH UI

Thank you for attending!