



Sales & Technical Enablement Workshop

Developing XPages - Part IV

Lotus Channel Technical Sales



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Matthias Schneider IBM Corporation March 2010

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1 Time Estimates

The IT Professional should be able to complete this whole lab in 90 minutes.

2 Purpose

The Lotus Notes My Widgets feature enables end users to see and act on automatically recognized Live Text in their Notes (and – with some restrictions iNotes) documents, including mail, using widgets created specifically for their use. For example, a Notes user can see a specially highlighted Live Text string (for example, a flight number) and instantly act on it (for example, look up a flight status) by opening a third-party flight status widget that is linked to that Live Text. My Widgets also enables power users and administrators to create and edit widgets, and deploy them to users to engage a Notes form, view, or document or third party services such as Eclipse plug-ins, Web pages, feeds, or Google Gadgets.

A widget is a tool that can consist of one or more components and actions. An action can optionally contain a wired content type and recognizer to define the Live Text pattern to act on and specifically how to act on that Live Text.



3 Description

The **My Widgets** feature is installed with Notes since 8.0.1.

Using available policy and preference settings, an administrator – you - can control which users could display **My Widgets** in their sidebar as well as various levels of access to **My Widgets** functionality. End users will typically not see **My Widgets** in their sidebar, yet still access widgets that are available when they act on Live Text in their (i)Notes documents.

In this section, you will transform our Scrapbook application into a set of widgets that could be used from both Notes and iNotes.





4 Detailed Steps

Deploy the My Widgets Feature by Policy

- 1. If Domino has not been started, start it now.
- 2. Open Domino Administrator from the desktop icon and login as **Domino Admin/ibm** with password **passw0rd**.
- 3. Assure that you are connected to server **DOM85/ibm**.
- 4. Navigate to the **Configuration** tab. From the right-hand menu select **Policies** > **Create**.



5. Create a new Mail Settings document.





6. Name the new Setting **iNotesWidgets**. Navigate to the **Lotus iNotes** tab and select **Configuration**.



7. Navigate to the **Widget Settings**. Enable the **Show the Widgets folder in the Mail outline** option.



8. Save and close the new document. Again, select **Policies > Create** to build a new **Dynamic Desktop** Settings document.



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9. Name the **Settings** document **Widgets**. Navigate to the **Widgets** tab and enforce the following settings (keep the defaults for all other options) on client side:

Widget catalog server: Widget catalog application name: DOM85/ibm widgetcatalog.nsf

Desktop Settings : Widgets					
Basics Smart Upgrade App	lications Widgets Dial-up Conr	nections Accounts Name Servers SSL			
Widget Settings		How to apply this setting:			
Widget catalog server: COM85/ibm _		Set value and prevent changes 🛛 👻			
Widget catalog application name:	^r widgetcatalog.nsf_	Set value and prevent changes 🛛 👻			
Widnet catalog categories to	Γ.,				

10. Save and close the Settings document. Click on **Policy > Create** again to build a new **Policy**.

Create New Policy	? ×
 This tool creates a new policy document or a policy settings document. What type of policy document do you want to create? Policy Settings 	OK Cancel
Archive	
A Policy sets up the hierarchical relationship between policies and specifies functional settings documents.	



11. Name the explicit Policy /MyWidgets. Select the Widgets Desktop and iNotesWidgets Mail Settings documents to assign.

Policy : /MyWidgets					
Basics Policy Assignment Policy Precedence Comm					
Basics					
Policy name:	[™] /MyWidgets _				
Policy type:	^r Explicit , ▼				
Description:	۲ ا				
Category:	r _				
Setting Type	Setting Name				
Registration:	r				
Setup:	ſ 				
Archiving:					
Desktop: 『Widgets』 •					
Security:					
Mail: CNotesWidgets .					

12. Save and close the Policy. Then, navigate to the **People & Groups** tab. Select Groups from the left-hand navigator and create a new group containing all users:

Multi-purpose group					
Basics Comments Administration					
Basics	Basics				
Group name:	^r All _				
Group type:	🖥 Multi-purpose 🛛 💌				
Category:	۲ . 💌				
Description:	Г 				
Mail Domain:	Г 				
Internet Address:	r J				
Auto Populate Method:	None	*			
Members:	^{IF} Domino Admin/ibm Manisha Annam/ibm Lucas Chaney/ibm David Dewell/ibm Kerry Staples/ibm Austin Stroh/ibm				

13. Save and close the new group.





14. Assign the /MyWidgets policy to the All group:

🕒 Add Group 🕜 Edit Group 🐽 Delete Group	Copy to Personal Address Book	➢Find Group Member Chat▼	🕨 👌 People
∧ Group ∨	Category ^	Description	here a composition of the second seco
B All B LocalDomainAdmins B LocalDomainServers B OtherDomainServers	Administration Administration Administration	This group should contain all Domino ad This group should contain all Domino se You should add all Domino servers in oth	Manage Rename Delete Find Group(s) Assign Policy
Assign Policy Options	? ×		
Use this tool to modify the policy options for people or groups in the selected Domino Directory. Selected: sdltus's Directory (names.nsf) on DOM85/ib	OK Cancel		
For: 1 selected group			
Users with an existing policy: [unknown] Policy to assign	Allow replacement of policies		
/MyWidgets			
How to apply policies to selected users In the Policy document (recommended)			
Currently assigned policies will be overwritten with the selected groups and users will be added to the select Assigned Policy field in the those users' Person docur	selected policy. The ed policy and the nents will be blank.		
View Policy Synopsis	orm updates in background		

- 15. If a warning dialog comes up, click **Yes** to overwrite existing assignments.
- 16. Navigate to the Domino console. Run the following command:

tell adminp process mail policy





Overview – Description of the next steps...



If you have reached this section, it's time for a short break. During the next five minutes, the instructor will provide a short summary of what we will do next – and why...

As a next step, we will modify our existing Scrapbook application, enabling it to run as a Web widget that could be called via Live Text. As the result, our application should open the corresponding profile for a user selected within a Notes document.

otus.			
Home	Profile	Results	

This requires our application to accept and process a person's name by either POST or GET request.

But - Although our **home** XPage is being rendered as a Web form, the Dojo technology used by XPages prohibits a "simple" form submit. Why?



Simply said - Clicking the **Search** button does more than just POSTing the form. The two simple actions we implemented there generated tons of JavaScript code which is getting executed if you click the button. This code sets most of the data to post within the form dynamically (and does some more strange things) before sending it to the Domino server or Notes client.

Only posting the "static" form as usually triggered by Live Text wouldn't have any result for our XPage – because of the missing (Dojo-initiated) data set within the form.

Therefore, we will extend our home XPage to also accept and process a simple GET request.

Enable our Scrapbook Application to act as a Widget

- 17. Open the Scrapbook application in Domino Designer. Open the home XPage.
- 18. Navigate to the **Events** tab. From the **Page** navigator, select **beforePageLoad** and click **Add Action**.



19. Add an Execute Script action containing the following code - you might want to copy it from C:\MyLabFiles\C&P.doc:

```
v = facesContext.getExternalContext().getRequest().getParameter("name");
if (v != null)
{
    url = @LeftBack(context.getUrl().toString(),"/") +
        facesContext.getExternalContext().getRequestContextPath();
        sessionScope.nameToSearch = v;
        facesContext.getExternalContext().redirect(url + "/results.xsp");
}
```

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😰 Add Simple Action	
(i) Enter values for simple action arguments	
Category: All	~
Action: Execute Script	~
Arguments for this Action Language: JavaScript (Server Side)	
<pre>v = facesContext.getExternalContext().getRequest().getParameter("name"); if (v != null) (url = @LeftBack(context.getUrl().toString(),"/") + facesContext.getExternalContext().getRequestContextPath(); sessionScope.nameToSearch = v; facesContext.getExternalContext().redirect(url + "/results.xsp");) Specifies the script expression to be executed.</pre>	\$I
ок с	Cancel

- 20. Save and close the **home** XPage.
- 21. Close Domino Designer and Lotus Notes, if opened.





Add a Widget available to Lotus Notes Users



If you have reached this section, it's time for a short break. During the next five minutes, the instructor will provide a short summary of what we will do next – and why...

22. Start Lotus Notes and authenticate as Domino Admin.

Note: The following steps are only required in our lab scenario to assure that the policy is getting assigned.

- 23. Open you local names.nsf.
- 24. By holding down the CTRL + SHIFT keys, select **View > Go To** from the main menu. Navigate to the **(\$Policies)** view:





- 25. Remove all exiting policies from the view.
- 26. Restart Lotus Notes.
- 27. Open the Lotus Notes preferences by selecting File > Preferences. Navigate to the Widgets tab and notice that the widget catalog information has been deployed. If not already done in a previous lab, enable the Show Widget Toolbar and the My Widgets Sidebar panel option.

Widgets	Widgets			
Fill in all fields and click Show Widget Toolba	Apply to populate the categories list. ar and the My Widgets Sidebar panel			
Catalog server:	DOM85/ibm		Browse	
Catalog name (.nsf):	widgetcatalog.nsf			
Categories to install:	APPLE .		Deselect All	

- 28. Click **OK** to save the preferences.
- 29. Notice the **My Widgets** sidebar component. From the upper right component header menu, select **Get Started...**





30. Our widget will consume a Web Page, therefore select the Web Page option.



31. Specify http://notesdomino.dfw.ibm.com/XScrapbook.nsf/home.xsp as our Web source. Click Next >.

Start by opening the web page that contains the data (form).
 O Browse the Web
 O Web page by URL:
 http://notesdomino.dfw.ibm.com/XScrapbook.nsf/home.xsp|

32. Specify a HTTP GET as the submit option of choice.



33. You need to authenticate with the Domino Web Server. Provide your credentials and assure to enable the **Remember my password** box, then click **OK**.



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34. The **home** XPage is getting opened. Extend the URL of the XPage by the following QueryString parameter:

?name=Nobody		
URL:		
http://notesdomino.dfw.ibm.com/XScrapbook.nsf/home.xsp	p?name=Nobody	Load URL
Lotus.	Scrapbook	

- 35. Notice: Do not click the Load URL button before selecting Next >.
- 36. From the **Configure a Widget** dialog, name the widget **Search Profile**, then navigate to the **Advanced** tab.
- 37. Enable the Configure name option and click Next >.

Configure a Widget

Enter a widget name. Click Advanced to make settings available for configuration and/or to define input values.

Basic	Advanced				
Select ti compon	he preference ient. The use	es you war er will be pr	nt to be configurable and mark required any ompted to fill in values for any settings that	settings that must be set before displaying the are required if no default value is specified.	
Config	ure:	Require:	Display name:	Default value:	
🗹 Cor	nfigure name	✓	name	Nobody	Edit

38. Click Finish.

39. The new widget has been added to the My Widgets sidebar component.





40. Right-click on the new widget, then select Configure a New Action.



41. Select the **Person** recognizer and specify **person.name** as the type property. The results should be displayed in a **New Window**.

记 Conf	igure a New Action	
Basic	Advanced	
Action Sear	name: (Users see this in a context menu) :h Profile	
What	content do you want to use?	Where do users see the results of this action?
	Recognized content Other content	New Window 💌
Per	son 🔹 New Recognizer	
Choose	which content property to wire to which wi	widget property. Click Advanced to add more.
Conte	nt type property:	Widget property:
perso	n.name	💌 name 💌
		OK Cancel

42. Click OK.





43. Navigate to your inbox. Open the mail we sent during the previous lab (Developing XPages - Part III):



44. After a couple of seconds, the name of the colleague – in this case John Doe - should be underlined:



45. Click on the name and select the first menu item:





46. Your Scrapbook application comes up within a new window, showing the results page. Our search would not return any match if there is no profile available for this person:

😡 http://notesdomino.dfw.ibm.com/XS	icrapbook.nsf/results	.xsp - IBM Lotus Notes	Ξ	
File Tools Help				
🛠 👜 🗔				
http://notesdomino.dfw.ibm.com/XScra	apbook.nsf/results.xsp			
Lotus.			Scrapbook	
Home Profile Results				
Profile search results for: John D	oe			
			Previous Next	
FullName 🗢	TimeZone	Search Yasni	Email	
Done			*	

- 47. If the search failed, create a new profile for in this case John Doe and try again.
- 48. In a last step, we will publish this newly created widget to our company's widget catalog. Therefore, **right-click** on the new widget and select **Publish to Catalog**.







49. Name the widget Search Profile from Notes, the save and close the document.

Save & Close						
۲ •	Search	Profile				
	Title:	Search Profi	le from Notes			
	Category:	r				
	Platform: [₽]	. 💌				
	Conten	t Туре	🔽 Component			
	🗖 Recogr	nizer	Plugin and Features			

50. Your widget could now be downloaded and installed by other users.

Notes Widgets			Open Add Widget to Catalog					
	on DUM85/ibm		Title 🗘	Created				
	All vvidgets	*	S3SysAdmin mail-in DB - Inbox	04/23/2009				
	🔲 By Author		SavaCentral	04/10/2009				
	By Category		Scrapbook Widget for Notes users	01/14/2010				
	і Ву Туре	*	Sidebar Chart Plugin	02/09/2009				
-	> Administration	*	Sidebar Chart Plugin	02/10/2009				
	🔲 All Widgets by Versi	*	Sidebar Chart Plugin	03/26/2009				
		*	Simple MSN plug-in for Lotus Symphony	07/18/2009				
	All Docs by Form	*	Sirius	11/25/2008				





Add a Widget available to Lotus iNotes Users



If you have reached this section, it's time for a short break. During the next five minutes, the instructor will provide a short summary of what we will do next – and why...

Since 8.5, you can define a set of widgets that are integrated into the Lotus iNotes mail client, and you can specify the toolbox catalog and category names from which users can select and install their own widgets. These widgets display in the Widgets folder in the navigation pane. When a user launches a widget, it may optionally solicit some input within a dialog or from selected text on the page, and then eventually open an external Web page in a new tab or a new browser window. Users can enter any text that is required by the service (such as text to be translated by a translation service), and the application results or output is displayed.

Our next steps will demonstrate how to create and deploy a widget that leverages our Scrapbook application to an iNotes user.

Notice the following Limitations (from 8.5 InfoCenter):

There are a number of limitations regarding the use of widgets with Lotus iNotes compared to the Notes client. These are listed below. Catalog widgets should be tested with Lotus iNotes to make sure that they work well on that platform prior to making them available to Lotus iNotes users. Catalog widgets are made available to Lotus iNotes users by adding "iNotes 8.5" to the platform field in the catalog document for the widget, and by including them in a category, or categories, specified in inotes_config.xml. Note that filtering widget catalog entries by platform type is relatively expensive from a server performance standpoint compared to filtering by category, so to maximize server performance, avoid including widgets that cannot support iNotes in the categories used to expose widgets to iNotes users.



Following is a list of widget limitations when using widgets with Lotus iNotes:

- Only widget definitions (<palleteltem> elements) with providerId="com.ibm.rcp.toolbox.web.provider.WebServicesPalleteProvider" are supported at this time.
- The only supported output targets for a widget is a Lotus iNotes tab panel and a new browser window. The <actionType> element in the widget XML specifies the default output target. The sidebar and floating window targets are not supported. If the <actionType> element for the widget specifies an unsupported output target, then the output will be displayed in a Lotus iNotes tab panel. Note that the user can override the default output target by selecting the desired target in the Open context menu item for the widget..
- The only supported contentTypeId for <contextData> elements is content.textSelection.
- It is possible for users navigating a Web site within a tab panel in Lotus iNotes to click on a link that will navigate to a different top level browser page. Due to browser architecture, there is no way for Lotus iNotes to prevent this from occurring. It is best to avoid using tab panels with Web sites that contain such links and to open these Web pages in a new browser window instead.
- Lotus iNotes cannot detect selected text within a Web page that is displayed in a Lotus iNotes tab pane for the purpose of passing the selected text as an input parameter to a widget, if the Web page is served from a different server than Lotus iNotes.
- 51. From the **My Widgets** sidebar component header menu, select **Get Started...** again.



52. Our widget will consume a Web Page, therefore select the Web Page option.





53. Specify http://notesdomino.dfw.ibm.com/XScrapbook.nsf/home.xsp as our Web source. Click Next >.

 Start by opening the web page that contains the data (form).
O Browse the Web
• Web page by URL:
http://notesdomino.dfw.ibm.com/XScrapbook.nsf/home.xsp

54. Specify a HTTP GET as the submit option of choice.

This Web Page: Build a widget from this web page (HTTP GET)
 From a form on this web page: Build a widget from a form on this web page (HTTP POST)

55. You need to authenticate with the Domino Web Server. Provide your credentials and assure to enable the **Remember my password** box, then click **OK**.

Connect to notes	domino.dfw.ibm.com 🛛 🛛 🔀
	GP4
1	
User name:	🕵 Domino Admin 🛛 👻
Password:	•••••
	Remember my password
	OK Cancel

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56. The **home** XPage is getting opened. Extend the URL of the XPage by the following QueryString parameter:

?name=Nobody		
URL:		
http://notesdomino.dfw.ibm.com/XScrapbook.nsf/home.xsp	p?name=Nobody	Load URL
Lotus.	Scrapbook	

- 57. Notice: Do not click the Load URL button before selecting Next >.
- 58. From the **Configure a Widget** dialog, name the widget **Search Profile (iNotes)**, then navigate to the **Advanced** tab.
- 59. Enable the **Configure name** option and click **Next** >.

Configure a Widget

Enter a widget name. Click Advanced to make settings available for configuration and/or to define input values.

Basic	Advanced				
Select t compon	he preference ient. The use	es you war er will be pr	nt to be configurable and mark required any s ompted to fill in values for any settings that a	ettings that must be set before displaying the are required if no default value is specified.	
Config	ure:	Require:	Display name:	Default value:	
🔽 Cor	nfigure name	✓	name	Nobody	lit

60. Click Finish.

61. The new Widget has been added to the My Widgets sidebar component.





62. Right-click on the new widget, then select Configure a New Action.



63. Select the **Text Selection** recognizer and specify **contents** as the type property. The results should be displayed in a **Floating Window**.

😡 Configure a New Action	×
Basic Advanced	
Action name: (Users see this in a context menu) Search Profile (iNotes)	
What content do you want to use?	Where do users see the results of this action?
 Recognized content Other content 	Floating Window 💌
Text Selection 🛛 New Recognizer	
Choose which content property to wire to which wide	get property. Click Advanced to add more.
Content type property:	Widget property:
contents	name 🔽
	OK Cancel

64. Click OK.





65. In a last step, we will publish this newly created widget to our company's widget catalog. Therefore, **right-click** on the new widget and select **Publish to Catalog**.



66. Name the widget Search Profile from iNotes, the save and close the document.

Save & Close						
ſ	Search	Profile (i	Notes)			
	Title:	Search Profi	le from iNotes			
	Category:	ſ				
	Platform: ^P	. •				
	Conten	t Туре	🔽 Component			
	🗖 Recogi	nizer	Plugin and Features			





67. Navigate to the **Attachment** section within the document. Open the **extension.xml** file in a text editor such as Notepad.



68. Open the Windows Explorer and navigate to your Lotus Domino installation directory, usually C:\IBM\Lotus\Domino. Within the data\domino\html subdirectory, find the file inotes_config.xml.template.

🗅 C: \IBM\Lotus\Domino\data\domino\html 📃 🗖 🔀					
File Edit View Favorites Tools Help				A	
🚱 Back 🝷 🕥 🕤 🏂 🔎 Search	Folders .				
Address 🛅 C:\IBM\Lotus\Domino\data\domino\	html			💌 🄁 Go	
Folders ×	Name 🔺	Size	Туре	Date Modified	
Local Disk (C:) Documents and Settings eclipse IBM Lotus Domino Lotus Domino data data dfc download html download icons java Icons	download lotus oneuiv2 sametime dwa85.cab dwa85res_en.dll dwa85w.cab dwa85w.cab dwa85w.cab dwa85w.cab dwa85w.cab dwa85w.cab motes_config.xml.template msvcrt.cab	150 KB 94 KB 150 KB 98 KB 42 KB 3 KB 145 KB	File Folder File Folder File Folder WinRAR archive Application Extension WinRAR archive Application Extension Icon TEMPLATE File WinRAR archive	1/7/2009 2:11 PM 1/7/2009 2:11 PM 11/26/2009 8:35 AM 1/7/2009 2:11 PM 6/10/2009 12:51 PM 6/10/2009 12:51 PM 6/10/2009 12:51 PM 6/3/2009 1:14 PM 6/6/2007 11:42 AM 8/18/2008 10:42 AM 6/25/2001 8:58 AM	
Type: TEMPLATE File Date Modified: 8/18/2008 10	0:42 AM Size: 2.44 KB		2.44 KB	🚽 My Computer	

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- 69. Copy the template into a new file **inotes_config.xml**. Open this file in another Notepad window.
- 70. From the **extension.xml** window, copy all the code except the first line and insert it into the **inotes_config.xml** before the closing </inotes:extensions> tag:



- 71. Save and close the inotes_config.xml. Afterwards, restart your Domino server.
- 72. If Domino is up and running again, open your Browser client and navigate to <u>http://notesdomino.dfw.ibm.com/mail/dadmin.nsf</u>.





73. After authentication, you should see a **Widgets** section within the left-hand navigator.

IBM.Lotus. iNotes.			Full 🔻	Preferences
🧟 Mail-Inbox 🗙				
Domino Admin	🖉 🌢 Naura - 🖂 Damin			
DOM85/ibm	Sender	Subject		
I Drafts I Sent	Mail Router	HI Admin DELIVERY FAILURE: No route found to domain mm.de from server DOM85/IBM. Check	: Server, Connecti	ion and Domain d
Pollow Up				
Ø Junk ☐ Trash				
Tolders				
Tools				
Cher Mail	•			

74. Navigate to your inbox. Open the mail we sent during the previous lab (Developing XPages - Part III):

Domino Admin	C	l 👌 New 🔻 🚑 Reply	🔹 🥪 Reply To All 🔹 🖙 Forward 🔹 🚞 🍷 🖻 🔹 Mark As 👻 前 More 👻 🚔
DOMOSABIN		#Sender	Subject
🖄 Inbox (1)		Domino Admin	Hi Admin
UM Drafts	\$	Mail Router	DELIVERY FAILURE: No route found to domain mm.de from server DOM85/IBM. Check Serve
🖾 Sent			





75. Select the name of the colleague (in this case John Doe), then expand the **Widgets** tab and click on **Search Profile (iNotes).**



76. As the result, the profile search should open the corresponding document.

🍝 📷 🔜 🗹 📙 💈				
Domino Admin DOM85/ibm	🧟 🔶 Back 🖒 Forward	4		🚺 🗔 Show 🔻
lnbox (1)	Lotus.		Scrapbook	
Ventrs Sent Follow Up All Documents Junk Trash	Home Profile Profile search re	Results sults for: John Doe		
Tews				Previous 1 Next
Contraction Folders	FullName 💠	TimeZone	Search Yasni	Email
Tools	John Doe	(GMT-12:00) International Date Line West	Who is John Doe?	jd@mm.de
Cther Mail				
Widgets IBM United States Search IBM BM Search Profile (iNotes)				





5 Summary

Congratulations! You have finished the Lab!

In this lab, you have successfully used the new Lotus Notes My Widgets feature to:

- Enable your XPage application to accept Live Text as the trigger for search requests
- Configure a Web Page widget based on your Scrapbook application
- Configure the widget for Life Text within Lotus Notes
- Configure a Web Page widget based on your Scrapbook application that could be used to leverage and extend the iNotes client capabilities
- Share widgets via the catalog

You also learned how to configure iNotes widgets by implementing policies and modifying the iNotes widget configuration file to deploy the widget to your iNotes clients.

