Tivoli Directory Integrator (TDI) The Best Free Tool You've Never Heard Of (The Developer's Perspective)

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The Consultant In Your Pocket Series

Agenda

- Introduction to TDI architecture/concepts
- Discuss TDI entitlement
- Install TDI
- Example Import CSV data into a Notes database
- Example Export Notes database data as XML
- Resources

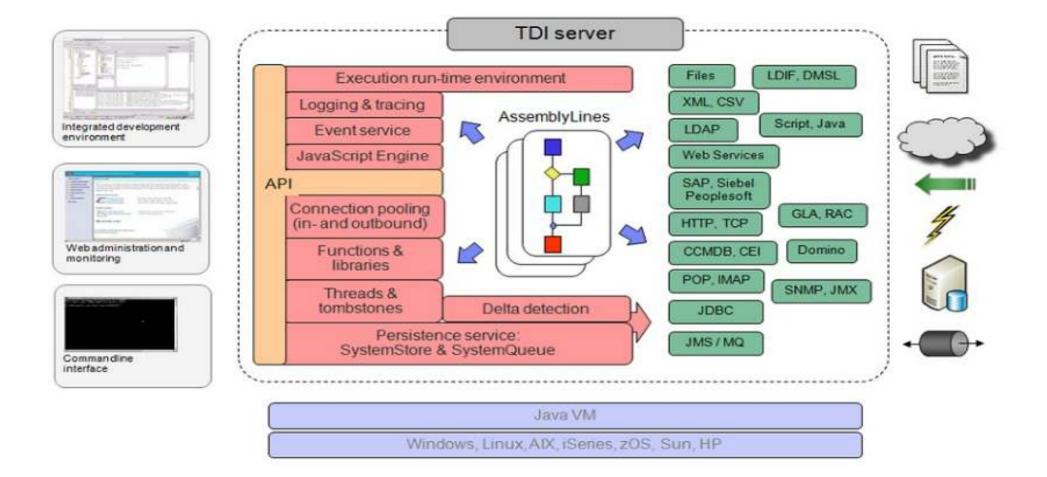
IBM Tivoli[®] Directory Integrator[®]:

"Tivoli Directory Integrator (TDI) is a graphical integration toolkit for accessing and detecting changes in practically any type of system, data store, protocol, or API. It also lets you transform, filter, and validate this data before driving it to the output targets of your choosing."

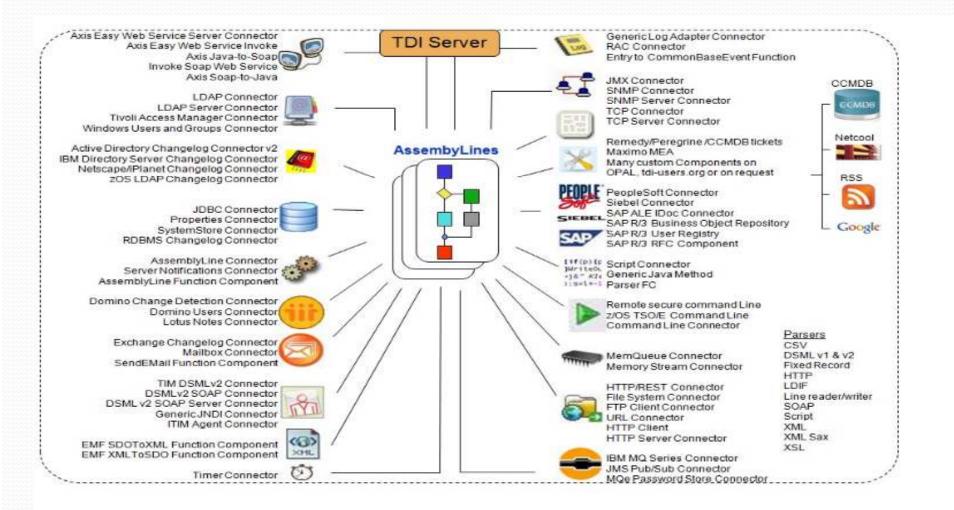
Source: Redpaper IBM Lotus Domino Integration Using IBM Tivoli Directory Integrator

- •Use for migration
- •Use for integration
- Use for synchronization

TDI Architecture



What Will TDI Connect To?



TDI Definitions/Concepts (Part 1)

•An **AssemblyLine**, just like a factory assembly line, is what TDI uses to identify, move, transform, push, pull or synch data between various **Data Sources**. TDI can run any number of these AssemblyLines at any given time. These AssemblyLines are what the developers and administrators of TDI will put together to accomplish their data needs.

•A **Data Source** is the data system or group of data objects that you are going to connect via the AssemblyLine. And a **Connector** acts as your means of setting up a logical connection to the **Data Source**.

TDI Definitions/Concepts (Part 2)

•Connectors use authenticated processes like LDAP, DIIOP, JDBC, AD, etc., that provide dialog boxes for configuring exactly how the **Data Source** will be accessed. These are batch or event-driven processes that handle the identification, routing, and transformation of data between data sources.

•Within the Data Source are Entries.

•Entries are the "data buckets" - these are the data objects. •Each entry may have Attributes – or sub parts.

•Attributes describe and or contain the data values from the various data sources that you're linking together in the AssemblyLine. Values are the objects that contain the actual data values that are being stored and transported through the AssemblyLine.

•Entries contain Attributes and Attributes contain Values

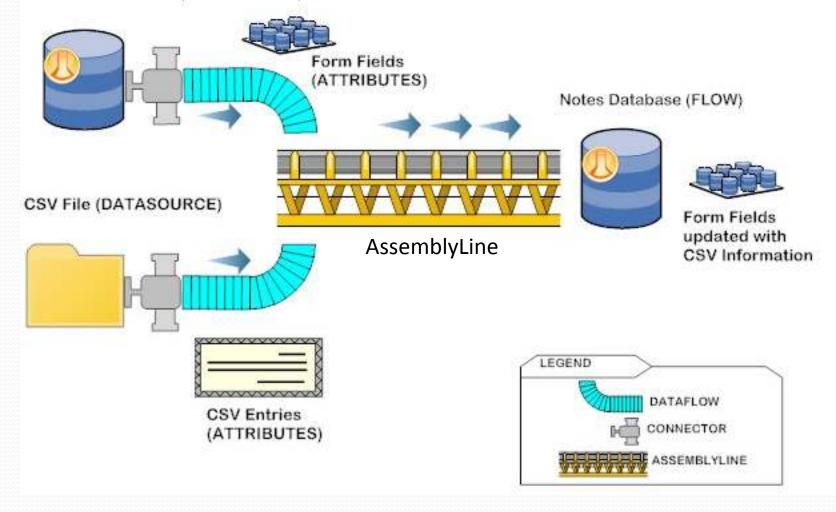
TDI Definitions/Concepts (Part 3)

- Work Entry entry that is being manipulated in the AssemblyLine
- **Conn Entry** entry that is the local work store for each Connector
- Attribute Map links the data movement between the Conn Entry and Work Entry for each Connector.

TDI AssemblyLine Overview

TIVOLI DIRECTORY INTEGRATOR: CSV FILE/NOTES DATABASE OVERVIEW DIAGRAM

Notes Database (DATASOURCE)



TDI Entitlement – "It's free!"

- Domino license holders are entitled to TDI
- Check your IBM Passport Advantage download site
- Remember to visit IBM Fix Central for TDI Fixpack downloads.
- AssemblyLine should include Domino as a data source
- For additional information go to:
 - http://www-01.ibm.com/software/lotus/notesanddomino/additionalswentitlements.html

Finding TDI on the IBM Passport Advantage Site

Download options		
You will see downloads f	or the most current version. In	addition:
If available, would y	ou like to see previous versio	ns of this product?
Yes	No	
If available, would y	ou like to see associated pro	ducts included at no additional charge?
Yes	© No	<

Select optional downloads, if desired

Additional software, which you may or may not require, is bundled with your main product (at no additional charge) and is available for downloading. Refer to the license agreements for specifics.

Associated products included at no additional charge

-	 IBM Tivoli Directory Integrator 6.1. eAssembly(CR5TQML) 	I for Domino 8.0.x Multplatform Multilingual
	Size	6 files (2490mb)
	Date posted	17-Aug-2007
	🕒 Multi-product package terms	
	IBM Tivoli Directory Integrator 7.0 eAssembly(CR9ZVML)	for Lotus Domino 8.5.x Multiplatform Multilingual
	Size	8 files (3388mb)
	Date posted	12-Oct-2009

- 1. Select your Domino software type
- 2. Next screen be sure to select the Download options "If available would you like to see associated products included at no additional charge."
- 3. Expand the "Associated
 products included at no additional charge" selection
- 4. Choose the version of TDIyou'd like to download

Installing TDI

- TDI 7.0 and 6.1 currently supported versions
- We're going to cover 7.0 in our slides
- Let's get started!

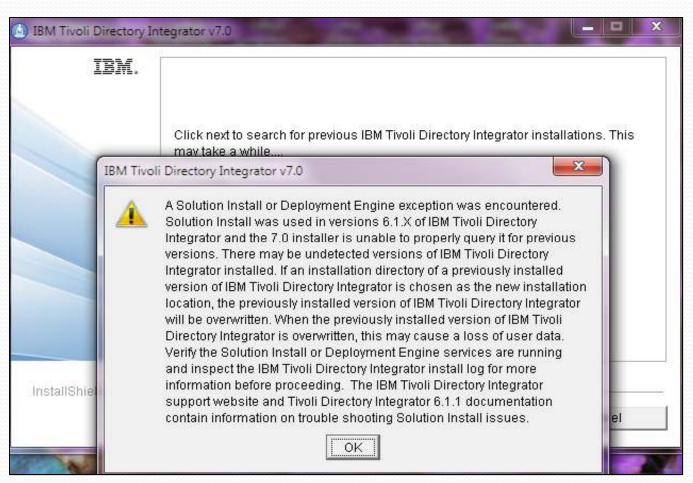
Use the install_tdiv70_win_x86.exe instead of launchpad.exe... It works better

▼↓ C1IF0ML → windows_x	36	▼ ∛y S	earch windows_x86	
)rganize 🔻 Include in library 🔻	Share with 🔻 Burn New folder		83	• 🔟 (
🗶 Favorites	Name	Date modified	Туре	Size
📓 Recently Changed	install_tdiv70_setup.jar	4/27/2009 2:55 PM	Executable Jar File	352,908 KB
📕 Public	install_tdiv70_win_x86.exe	4/27/2009 2:14 PM	Application	53,731 KB
🌉 Desktop	install_tdiv70_win_x86_console.exe	4/27/2009 2:55 PM	Application	406.623 KB

If you want to have console start at bootup...

IBM.	You have the option of registering the Administration and Monitoring Console as a system service.
	Register the Administration and Monitoring Console as a system service
	tdiame
	This would be useful if you were installing this on a server and wanted TDI to start up automatically on server startup.
nstallShield	
	≺ Back Next > Cancel

You might see this if TDI was previously installed...



This seems to be quite common on install, even when I think I have everything "cleaned up". So long as you're not upgrading, you can ignore it.

Choose your install directory...

IBM.	Click Next to install "IBM Tivoli Directory Integrator v7.0" to this Browse to install to a different directory.	directory, or click
	Directory Name: C:\Program Files (x86)\IBM\TDI\V7.0	Browse
nstallShield	< Back Next >	Cancel

This is my default directory when installing onto a Microsoft Windows 7 platform on my laptop

Installing everything (disk space is cheap!)

±#275,	Select the features for "IBM Tivoli Directory Integrator v7.0" you would like to install:
	Configuration Editor
	Configuration Editor Update Site (Eclipse update site)
	Javadocs (Product API reference)
	Examples (Example Configs)
	IEHS v3.11 (Host product help locally - the default is online)
	embedded web platform (includes Integrated Solutions Console SE)
	Administration and Monitoring Console
	Assword Synchronization Plug-ins

A true server installation would leave out Javadocs, examples, and IEHS. I'm installing here so that I have access to everything locally.

Choose your solutions directory...

	IBM.	You have the option of selecting a Solutions Directory. A Solutions D a static directory where the IBM Tivoli Directory Integrator Server and Editor look for your solutions.	
		© Use a subdirectory named TDI under my home directory	
		C Use Install Directory	
		C Select a directory to use	
		O not specify - use current working directory at startup time	Browse
InstallS	hield	< Back Next >	Cancel

You will have a chance to change this when you start up TDI. Your AssemblyLines and jobs will be stored in this directory.

Select the embedded console...

Mo	lect an Integrated Solutions Console instance to deploy the Administration and nitoring Console into.
Ce	Embedded instance of Integrated Solutions Console SE
0	Existing instance of Integrated Solutions Console
	Browse
0	Do not specify - I will manually deploy the Administration and Monitoring Console at a later time

Again, choosing this for local installation and no existing ISC anywhere.

Taking the default ports for TDI...

IBM.	Enter the port values to be us	sed by Integrated Solutions Console SE.
	HTTP port:	1 31 00
	HTTPS port.	
	Action Manager API port:	13104
istallShield		

If all goes well, you're good to go!

IBM.	Please read the summary information below.
	The InstallShield Wizard has successfully installed IBM Tivoli Directory Integrator v7.0. Choose Finish to exit the wizard.
	Start the Configuration Editor
stallShield	

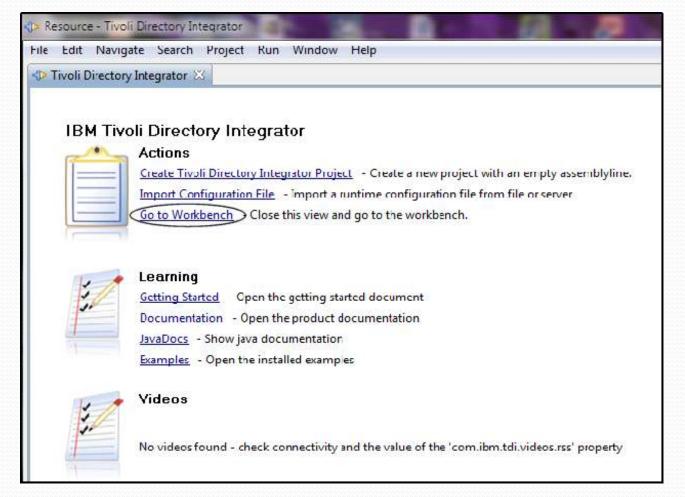
Since we're going directly into testing to see if TDI starts up, the Start the Configuration Editor option can remain selected.

Starting up TDI and selecting my solution directory

Choose a wor	rkspace folder to use for this session.	kspace.		
Workspace:	C:\Users\Duffbert\Documents\TDI\workspace		 Brows 	e
Use this as	the default and do not ask again			
re registered trac	demarks of IBM Corporation in the United States, other countries	OK or both. Built on Eclipse	Canc	

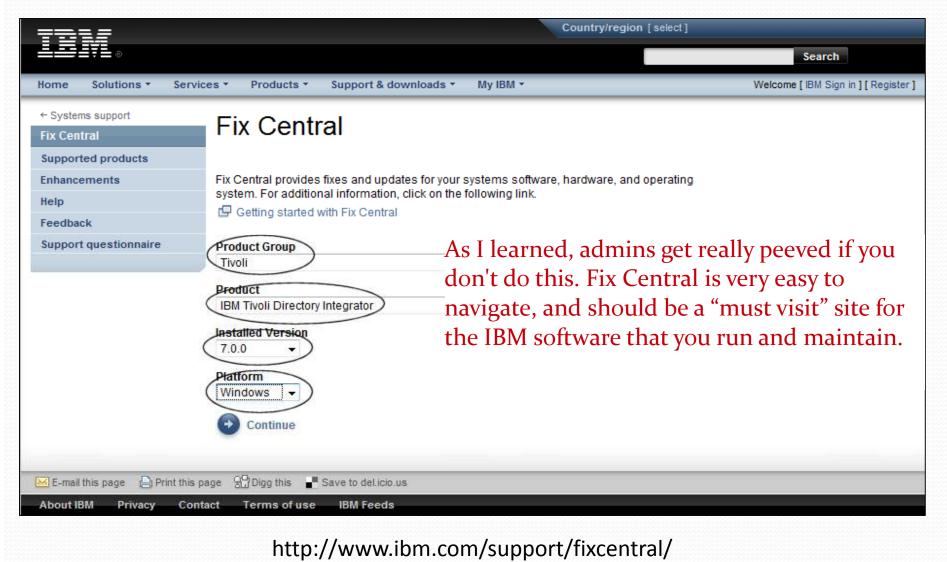
This is where you can change your solution directory, aka the "Workspace". This can be useful if you want to have separate workspaces for different customers or jobs.

And we're there!



If all goes well, this is the screen we'll first see. Once you select the Go to Workbench option, you'll open up to that screen when you start up in subsequent sessions.

Job #1 after install... install fix packs!



And to connect to Domino...

)rganize 👻 Include in library 👻	Share with 🛩 Burn New folder		10	• •
 Documents Music Pictures Videos Computer Local Disk (C:) SINPLACE.~TR SRECYCLE.BIN SWINDOWS.~Q ATI boot Config.Msi Documents and Settings HP MSOCache PerfLogs Program Files 	Name healthcenter.jar ibmallext.jar ibmjcefips.jar ibmpkcs11impl.jar localedata.jar njempcl.jar Notes.jar websvc.jar xsp.http.bootstrap.jar In order to connect to IBM		Type Executable Jar File Executable Jar File	Size 19 KB 3,565 KB 235 KB 988 KB 343 KB 1,938 KB 1,938 KB 1,449 KB 17 KB
Program Files (x86) ProgramData Recovery	to copy the Notes.jar file f	rom your IBIVI Lot	us notes insta	allation

Into the TDI directory...

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E Pictures	📓 enroleagent.jar	2/9/2009 4:07 PM	Executable Jar File	294 KB	
🛃 Videos	🖃 ibmjms.jar	2/9/2009 4:06 PM	Executable Jar File	26 KB	
	📓 <mark>ibmjs.ja</mark> r	4/23/2009 5:02 PM	Executable Jar File	889 KB	
Computer	IBMLDAPJavaBer.jar	2/9/2009 4:08 PM	Executable Jar File	44 KB	
🚢 Local Disk (C:)	🖃 icu4j_4_0.jar	2/9/2009 4:08 PM	Executable Jar File	5,515 KB	
🛃 SINPLACE.~TR	ITLMToolkit.jar	2/9/2009 4:06 PM	Executable Jar File	33 KB	
SRECYCLE.BIN	🖃 jffdc.jar	2/9/2009 4:06 PM	Executable Jar File	80 KB	
💁 \$WINDOWS.~Q 🗉	📓 jlog.jar	2/9/2009 4:06 PM	Executable Jar File	231 KB	
📕 ATI	🖬 LUMClient.jar	2/9/2009 4:08 PM	Executable Jar File	18 KB	
🎍 boot	MQeBase.jar	2/9/2009 4:06 PM	Executable Jar File	332 KB	
👜 Config.Msi	🖃 MQeJMS.jar	2/9/2009 4:06 PM	Executable Jar File	110 KB	
🔒 Documents and Settings	MQeSecurity.jar	2/9/2009 4:06 PM	Executable Jar File	73 KB	
📕 HP	🖬 Notes.jar	9/28/2009 11:33 PM	Executable Jar File	1,938 KB	
🚮 MSOCache	🖃 regex4j.jar	2/9/2009 4:07 PM	Executable Jar File	86 KB	
🍰 PerfLogs	🖃 remoteaccess.jar	11/29/2009 1:27 PM	Executable Jar File	609 KB	
🌗 Program Files	📓 rxa-langpack.jar	2/11/2009 4:00 PM	Executable Jar File	76 KB	
🌗 Program Files (x86)	🗐 snmp.jar	2/9/2009 4:07 PM	Executable Jar File	421 KB	

Example – CSV to Notes

 In this scenario, we're going to demonstrate the creation of an Assembly Line that imports data from a CSV file into a Notes database

To begin...

You have a comma-separated values (.csv) file with data that you want to get into a Notes database.

脊 Home 🛞 TDI Reading List - Books By Title 🕷

(Untitled) ×

· biuA2

bookReview.csv - Notepad	😡 (Untitled) - IBM Lotus Notes
File Edit Format View Help	File Edit View Create Actions Text Tools Window Help
bookTitle,bookAuthor,bookPublishedDate,bookRating The Lost Symbol,"Brown, Dan",2009,3 House of Reckoning,"Saul, John",2009,3	Open 🤑 🕒 🚷 Home 🔹 🔫 TDI Reading List - Books
"Entrepreneur Journeys V.3: Positioning: How To Tes Conflicts with Interest, "Ruddy, Michael", 2010, 3	IX 4 🗅 🖻 🖞 - 🔒 😂 🦳
Don't Just Roll The Dice - A usefully short guide t The Defector,"silva, Daniel",2009,4	TDI Reading List - Book
The Best Camera Is The One That's With You: iPhone The Year of Living like Jesus: My Journey of Discov The Story of American Business: From the Pages of t	Title ^P I_
Free: The Future of a Radical Price,"Anderson, Chri "PostSecret: Confessions on Life, Death, and God",' The Ghost Trap,"Stephens, K.",2009,4	Author ^C 』
Where I Slept: Being Homeless In Portland, Transitic The U.S. Army Survival Manual: Department of the Ar	Published [『] 』
Ends of the Earth: A Bug Man Novel,"Downs, Tim",200 SharePoint Roadmap for Collaboration: Using SharePo "Throw Out Fifty Things: Clear the Clutter, Find Yo	Rating [®] 』
Between Me and the River - Living Beyond Cancer: A Wicked Prey,"Sandford, John",2009,2 Fugitive,"Margolin, Phillip",2009,4	

Truly nothing fancy here... four fields in a .csv file, four fields in the Notes database.

Creating the Project for our job...

-	F di t	Navigate	Search	Project	Run	Window	Help			
C	New	\sum					Alt+ Shift	+N <	-11-	Project
	Open	Tivoli Direc	tory Inteq	rator cost	figurati	ion file			-4	Project
	Opcn	File							88	AssemblyLin
	Close	5					Ctrl	W	8	Attribute Ma
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	Save						Cti	1-5	1	Function
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	Fi	Tivoli D ile Edit C V V C Navig	Directory Navi Vivoli Dir Ator Asser Refer Resou	gate New rectory ListProj mblyLin ences urces me-TD	Searc w Pro Integ ect ies	ch Pro oject N grator	ject Run ew Assem	W blyLi	lind	or ow Help
	Fi	Tivoli D ile Edit	Directory Navi Divoli Dir ator X DiBookl Asser Refer	gate New rectory ListProj mblyLin ences urces me-TD	Searc w Pro Integ ect ies	ch Pro oject N grator	ject Run ew Assem	W blyLi	lind	or ow Help

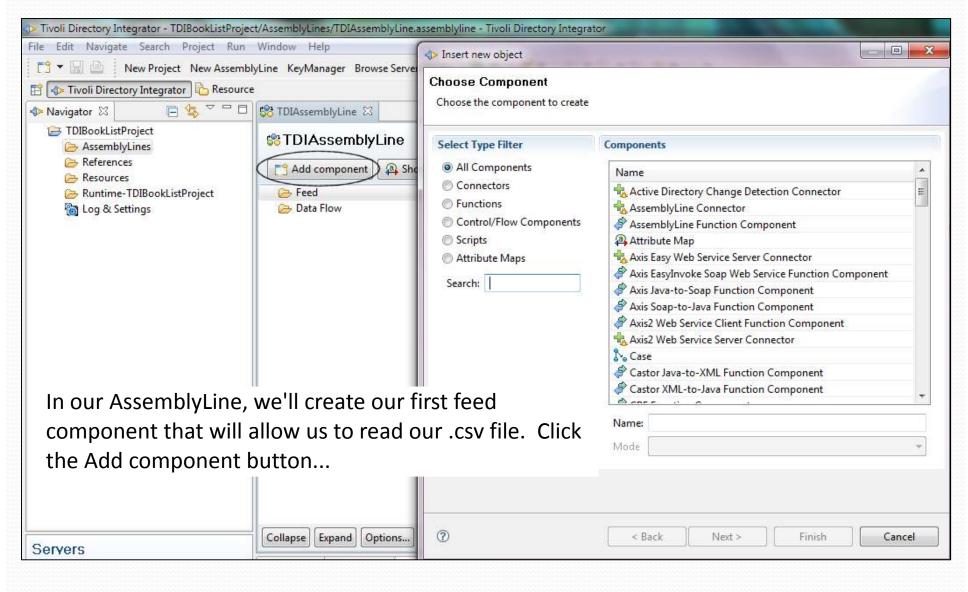
tew Project		
Project Create a new so	lution project.	
Project name:	TDIBookListProject	
Use default	location	
Location: C:\I	Jsers\Duffbert\Documents\TDI\workspace\TDIBookListP	Browse
> New >	Project to store our AssemblyL Project), name it TDIBookListPr I see that Project created in the or tab.	roject,
(?)	Finish	Cancel

Creating the AssemblyLine...

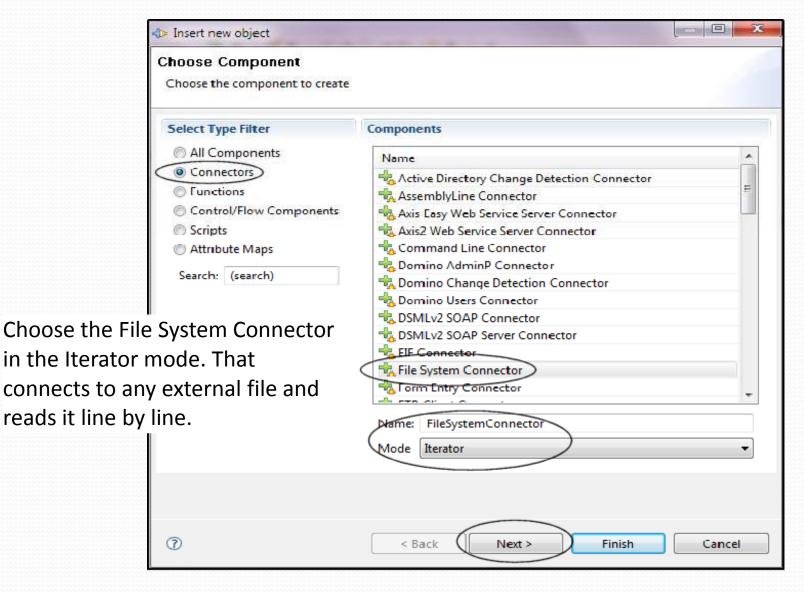
T 🖘	ivoli Directory Integrator - Tivoli Directory Integrator		and the second	New AssemblyLine
File	Edit Navigate Search Project Run Window Help			Specity Name
	New Alt+Shift+N		Project	Input the name
	Open Tivoli Directory Integrator configuration file	E\$	Project	
	Open File	(83	AssemblyLine	Clanse: IDAccembly ine
	Close Ctrl+W	2	AttributeMap	
	Close All Ctrl+Shift+W	4	Connector	Now we create the AssemblyLine (File
F	Save Ctrl+S	\$	Function	Now & Accombly in a) name it
	Save As	8	Script	> New > AssemblyLine), name it
100 I	Save All Ctrl+Shift+S	•	Parser	TDIAssemblyLine, and it appears in the
-1101	Revert	6	Properties	
			Server	Navigation tab under our Project.
	Move	6	Folder	
	Rename F2	□	File	
8	Refresh F5	<u> </u>		
	Convert Line Delimiters To		Other Ctrl+N	30 Finish Cancel

Tivoli Directory Integrator - TDIBookListProject/AssemblyLines/TDIAssemblyLine.assemblyline	- Tivoli Directory Integrator		And I wanted to be seen
File Edit Navigate Search Project Run Window Help			
📑 🔻 🔚 👜 🛛 New Project New AssemblyLine KeyManager Browse Server Stores 🕻	🖌 🛷 - 🎦 - 🖓 - 🧐	\diamond \bullet \bullet	
😰 🐟 Tivoli Directory Integrator			
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TDIBookListProject AssemblyLines References Resources Runtime-TDIBookListProject Log & Settings	Map Add Delete Bro	And a second	
	Work Attribute	Assignment	Component Attribute

First job is to build the Feed Connector...



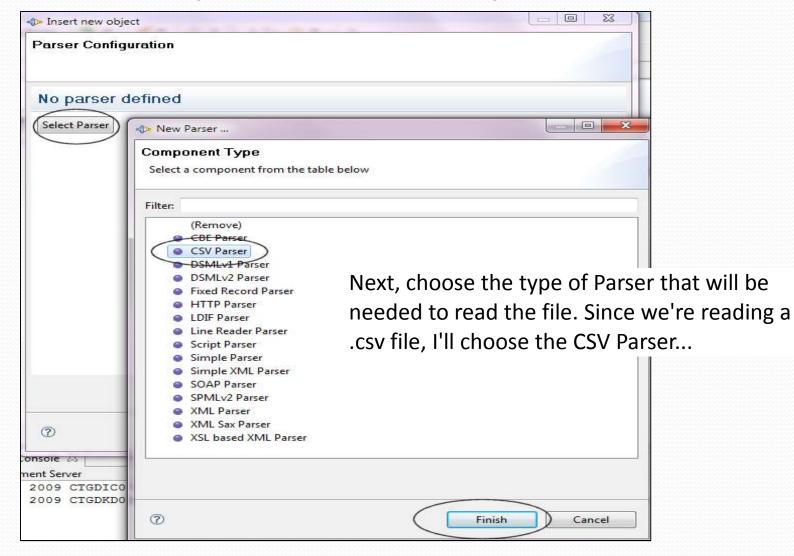
Choose the File System Connector...



Get the actual location of the file...

-tp≥ Insert new object	
Connector Configuration	4
File System Connector	
File Path * C:\Users\Duffbert\Desktop\bookReview.csv Comment	Select ?
	?
Detailed Log	?
✓ Advanced	
Timeout (in seconds)	- ?
Lock file	?
Choose the location of the .csv file that you'll k	be reading
in	C
? < Back Next > Finish	Cancel

The next option selects the parser...



We have to make sure the parser is configured...

↓ Insert new object	
Parser Configuration	
CSV Parser	You may have to configure the parser. In this
Select Parser Help	case, I needed to change the Field Separator
	from ; to , to make it conform to my file.
Field Separator * ,	
Comment	E .
	2
Detailed Log 🔲	3
Advanced Field Names	
	?
	Field names, in the order they
⑦ < E	Back Next > Finish Cancel

The Feed Connector is now configured...

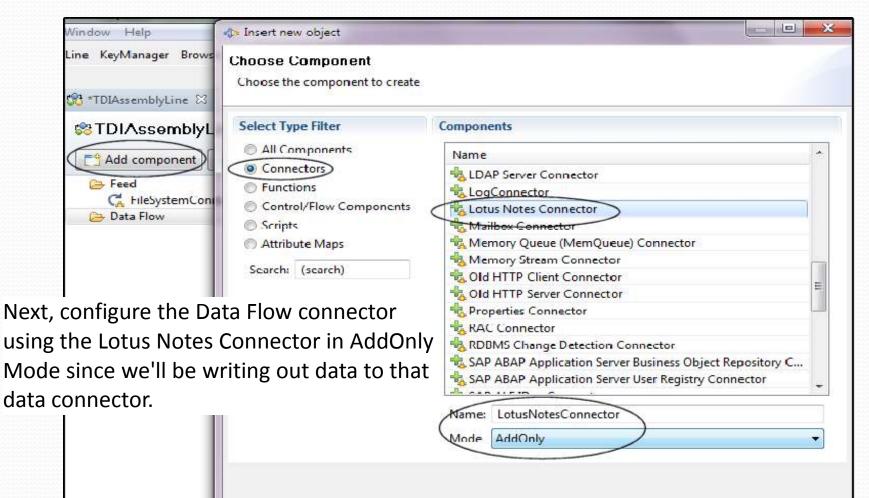
🖏 *TDIAssemblyLine 🛛						
StDIAssemblyLine						
📑 Add component 🗿 Show mapping 🖗	Options					
✓ Feed C FileSystemConnector	G FileSystemConne	ector				
😕 Data Flow	Mode Iterator	Enabled Inherit From system:/Conne	ctors/ibmdi.FileSystem More			
	Input Map Hooks Delta Co	nnection Parser Connection Errors				
	Map Add Delete More		Connect Next Close	More		
	Work Attribute	Assignment	Schema			
			Name	Sample Value	Required	Java

The File System Connector is now complete, set to iterate through the file and parsing the lines via the comma separator.

Test your connection to the file...

TDIAssemblyLine Add component A Show mapping Options Run Feed Feed Connect Net Close More Mode Iterator State Enabled Input Map Hooks Delta Connection Parser Connection Errors Map Add Delete More Work Attribute Assignment Schema Sample Value Required Cool feature test your connection by clicking the Connect button. It will use the first line of the .csv file	- 8				ne 🖾	😚 *TDIAssemblyLine
Feed C FileSystemConnector Data Flow Mode Iterator State Enabled Inherit From system:/Connectors/ibmdi.FileSystem More Input Map Hooks Delta Connection Parser Connection Errors Map Add Delete More Work Attribute Assignment Schema Vork Attribute Assignment Schema Cool feature test your connection by clicking the Diskating Connect button. It will use the first line of the .csv file House of Recko					nblyLine	🐯 TDIAssemt
Cool feature test your connection by clicking the Connect button. It will use the first line of the .csv file			• 0 3.	Options Run	nent 🗿 Show mapping	Add compone
Data Flow Mode Iterator • State Enabled • Inherit From system:/Connectors/ibmdi.FileSystem More Input Map Hooks Delta Connection Parser Connection Errors Input Map Add Delete More Work Attribute Assignment Schema Sample Value Work Attribute Assignment Schema Saul, John BookAuthor Saul, John BookPublishedDate 2009 BookRating 3 BookTitle House of Recko House of Recko Use the first line of the .csv file			nector	G FileSystemConr	emConnector	the second se
Map Add Delete More Work Attribute Assignment Schema Work Attribute Assignment Sample Value Required Saul, John BookAuthor Saul, John BookRating 3 BookRating 3 Connect button. It will use the first line of the .csv file House of Recko	em More	:/Connectors/	Enabled Inherit From system:/Connec	Mode Iterator 🔻 State		
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Cool feature test your connection by clicking the Connect button. It will use the first line of the .csv file	t Next Close More		e)	Map Add Delete Mor		
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Cool feature test your connection by clicking the Connect button. It will use the first line of the .csv file	~					
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Connect button. It will use the first line of the .csv file			by clicking the	ur connectior	ature test vo	Cool fea
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main.logmsg GTGDJW003I Parser will use first input line for column names.				nut line for column r	naon will was first i	
CTGDJW0031 Parser will use first input line for column names.	^					

Now, we'll configure the Data Flow Connector...



< Back

Next >

Finish

Cancel

(?)

Opt

Expand

Collapse

Configuration of the Lotus Notes Connector...

Connector Configuration	n	
Lotus Notes Conne	ector	
Help		
Domino Server IP Address *		[?]
Domino Server Name		?
HTTP port	80	? ≡
Session Type *	LocalClient	▼ ?
Username		?
Password *	*****	?
Database*	TDIReadingList.nsf	Select ?
Comment		

For this example, we'll use a LocalClient session, enter the password of our Notes ID, and choose the database we'll be connecting to...

0	< Back	Next >	Finish Cancel

And if that connection works...

File Edit Navigate Search Project Run	Window Help							
📑 🛨 🔚 🔔 🕴 New Project 🛛 New Assemb	lyLine KeyManager Browse Server Stores 🛛 💁 🔻	A • 2 • 4 • • • •	⇔ •					
😭 🜗 Tivoli Directory Integrator 🔂 Resource	e							
💠 Navigator 🛛 📄 🔄 🌣 🗖 🗖	😪 *TDIAssemblyLine 🛛					- 0		
 Navigator S Navigator S Navigator S TDIBookListProject AssemblyLines TDIAssemblyLine References Resources Resources Runtime-TDIBookListProject Log & Settings Set TDIAssemblyLine FileSystemConnector Mode AddOnly V State Enabled V Inherit From System:/Connectors/ibmdi.Notes More Output Map Hooks Connection Errors Map Add Delete More 								
		Assignment	Component Attribute	Schema				
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Default	CTGDIV0021 Opening Session to Domino	o Server: Session Type='L	ocalClient',, Hostname='{1}',	. User ID='{2}', Requeste	d IIOP/SSL='false'.			
	CTGDIV0491 Session to Domino Server CTGDIV005I Sucessfully connected to		Version='Release 8.5.1 Septer	mber 28, 2009	', Platform='Windo	ows/32'.		

Get the fields from the File Connector...

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STDIAssemblyLine		
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	Work Attribute Assignment	Schema X Name Sample Value
Back in our File Connector click the Add button unde Mappings to select the file we'll be reading	er (Map all Attributes)	記 bookAuthor Brown, Dan 記 bookPublishedDate 2009 取 bookRating J 記 bookTitle The Lost Symbol
Collapse Expand Options		<
main.logmsq CTGDIV002I Opening Session to Demin CTGDIV049I Session to Domino Server CTGDIV049I Successfully connected to CTGDJW0000I Parser will use first in	Domino Serri Select All Deselect.	per ID-'(2)', Requested IIOF/SSL-'fals

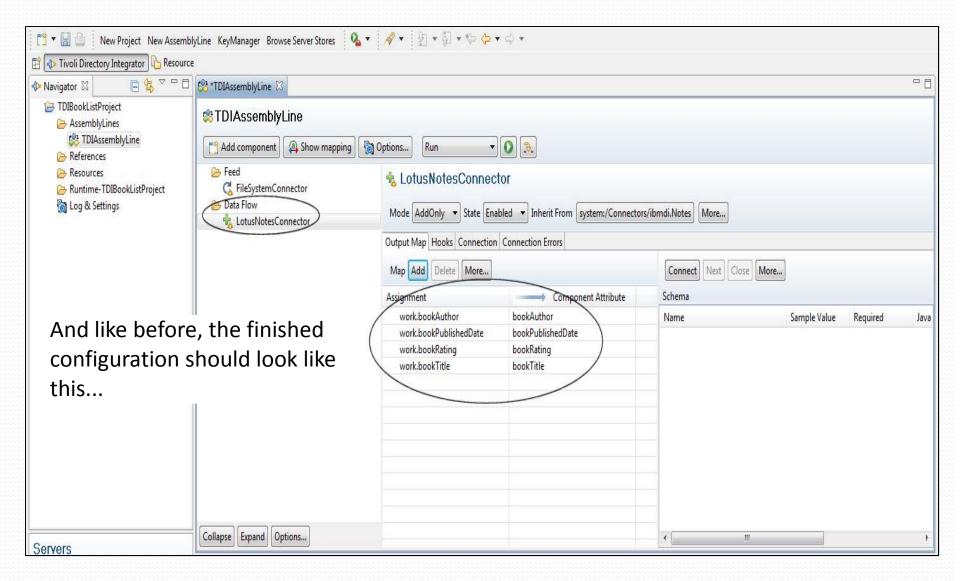
And here's how the configuration looks...

Tivoli Directory Integrator - TDIBookListProject	ct/AssemblyLines/TDIAssemblyLine.assemblyline - Tivo	li Directory Integrator	ALC: NOT THE	S. Statement	
File Edit Navigate Search Project Run	Window Help				
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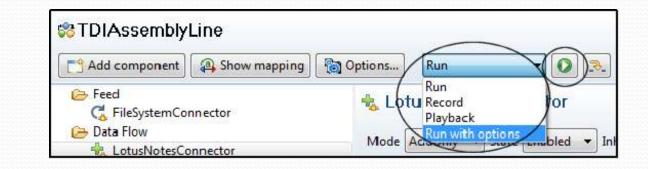
Select the fields from the Notes Connection...

🐯 *TDIAssemblyLine 🔀	
101AssemblyLine	Add attribute
Add component Add component Connector Context FileSystemConnector Data Flow LotusNotesConnector Mode AddOnly State En	bookAuthor
Output Map Hooks Connection	bookTitle
Then, we choose what fields we'll map to in the Lotus Notes Connector	
	Select All Deselect All Enter new name:
Collapse Expand Options	OK Cancel

And now we have the other end configured...



And now we can run it!



😚 *TDIAssemblyLine 🛛	🕐 TDIAssemblyLine 🕱
🔳 🔘 🗙 📄	
12:59:04,995 INFO	- [FileSystemConnector] CTGDJW003I Parser will use first input line for column names.
12:59:05,541 INFO	- [LotusNotesConnector] CTGDIV002I Opening Session to Domino Server: Session Type='LocalClient',, Hostname='{1}', User ID='
12:59:05,977 INFO	- [LotusNotesConnector] CTGDIV049I Session to Domino Server is created.
12:59:05,977 INFO	- [LotusNotesConnector] CTGDIV005I Sucessfully connected to Domino Server: Name='', Version='Release 8.5.1 September 28, 20
12:59:05,977 INFO	- CTGDIS087I Iterating.
12:59:06,243 INFO	- CTGDIS088I Finished iterating.
12:59:06,258 INFO	- CTGDIS100I Printing the Connector statistics.
12:59:06,258 INFO	- [FileSystemConnector] Get:87
12:59:06,258 INFO	- [LotusNotesConnector] Add:87
12:59:06,258 INFO	- CTGDIS104I Total: Get:87, Add:87.
12:59:06,258 INFO	- CTGDIS1011 Finished printing the Connector statistics.
12:59:06,305 INFO	- CTGDIS080I Terminated successfully (0 errors).

All that's left is to run it. On the console, you'll see the parser config, the connection to Domino, the iteration through the file, and the printing of statistics... All in less than two seconds...

And we look at our Notes database output...

💮 TDI Reading L	ist - Books By Title - IBM Lotus Notes	-		
File Edit Viev	v Create Actions Tools Window H	elp		
<mark>Open ∯</mark> 및 2] - ⊖ (2)	🚹 🚰 Home 🔹 🌐 TDI Reading Lis	t - Books By Title ×		
TDI Rea	Title 0	Author 🗘	Published Date	Rating 🗘
Billi Boo	10 Things I Hate About Christianity: Working Through the Frustrations of Faith	Berggren, Jason T.	2009	4
	A Million Miles in a Thousand Years: What I Learned While Editing My Life	Miller, Donald	2009	5
	A Murder of Quality	le Carre, John	1962	3
	A User's Manual for the Human Experience	Dean, Michael W.	2009	5
	Between Me and the River - Living Beyond Cancer: A Memoir	Host, Carrie	2009	5
	Call for the Dead	le Carre, John	1961	5
	Conflicts with Interest	Ruddy, Michael	2010	3
	Contagion: The Financial Epidemic That is Sweeping the Global Economy and How to Protect Yourself from It	Talbott, John R.	2009	4
	Did Lizzie Borden Axe For It?	Rehak, David	2008	3
	Dixie Before Disney: 100 Years of Roadside Fun	Hollis, Tim	1999	4
	Don't Call Me a Crook!: A Scotsman's Tale of World Travel, Whisky and Crime	Moore, Bob	2009	4

Example – Notes data to XML

 In this scenaro, we're going to demonstrate how to use an Assembly line to extract data from a Notes database to XML and at the sametime we're going to do some data manipulation.

To begin...

You have a Notes database with data that you need to export into XML format, along with some data scrubbing requirements.

This is the same Notes database we created in the first example...

	🐨 TDI Reading List - Books By Title - IBM Lotus Notes							
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ne)I Rea		Title 🗘	Author 🗘	Published Date	Rating \Diamond	
otes		i Boo		10 Things I Hate About Christianity: Working Through the Frustrations of Faith	Berggren, Jason T.	2009	4	
e we in the				A Million Miles in a Thousand Years: What I Learned While Editing My Life		2009	5	
in the				A Murder of Quality	le Carre, John	1962	3	
mple				A User's Manual for the Human Experience	Dean, Michael W.	2009	5	
				Between Me and the River - Living Beyond Cancer: A Memoir	Host, Carrie	2009	5	
				Call for the Dead	le Carre, John	1961	5	
				Conflicts with Interest	Ruddy, Michael	2010	3	
				Contagion: The Financial Epidemic That is Sweeping the Global Economy and How to Protect Yourself from It	Talbott, John R.	2009	4	
				Did Lizzie Borden Axe For It?	Rehak, David	2008	3	
				Dixie Before Disney: 100 Years of Roadside Fun	Hollis, Tim	1999	4	

First create the Project and AssemblyLine, and then it's time to build the Feed Connector...

Ivoli Directory Integrator - TDINotesToXML/AssemblyLines/TDINotesToXMLassemblyline - Tivoli	Directory Integrator	the second se
File Edit Navigate Search Project Run Window Help	Insert new object	
Image: Server Stores Image: Server Stores Image: Server Server Stores Image: Server Server Stores Image: Server Server Server Stores Image: Server Serve	Choose Component Choose the component to create	
 TDIBookListProject TDINotesToXML AssemblyLines References Resources Runtime-TDINotesToXML Log & Settings TDINotesToXML Totata Flow 	Select Type Filter All Components Connectors Functions Control/Flow Components Scripts Attribute Maps Search:	Name Active Directory Change Detection Connector AssemblyLine Connector AssemblyLine Function Component AssemblyLine Function Component Axis Easy Web Service Server Connector Axis EasyInvoke Soap Web Service Function Component Axis Java-to-Soap Function Component Axis Soap-to-Java Function Component Axis 2 Web Service Client Function Component
Click Add component to start creating the c the Lotus Notes input data source	connector file	Axis2 Web Service Server Connector So Case Castor Java-to-XML Function Component Castor XML-to-Java Function Component
Collapse Expand Options	0	Name: Mode < Back Next > Finish Cancel
Servers		

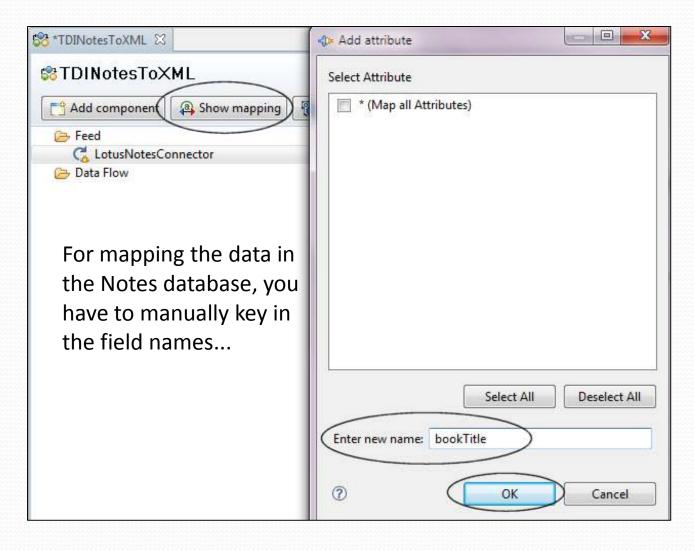
Choose the Lotus Notes Connector...

	⊲≫ Insert new object		
	Choose Component Choose the component to create		1
only this time	Select Type Filter All Components Connectors Functions Control/Flow Components Scripts Attribute Maps Search: (search) Notes Connector, we'll choose the as we'll only be	Name JNDI Connector LDAP Connector LDAP Server Connector LogConnector Lotus Notes Connector Mailbox Connector Mailbox Connector Mailbox Connector Memory Queue (MemQueue) Connector Memory Stream Connector Old HTTP Client Connector Old HTTP Server Connector Properties Connector RAC Connector RDBMS Change Detection Connector Name: LotusNotesConnector	
		Mode Iterator < Back	ancel

Configure The Notes Connector like you did in the last job... And if that connection works...

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O Default	CIGDIVED21 Opening Session to CIGDIVED21 Dession to Doming S	ed to Domino Cerver: Name='', Version='Release 0.5.1/3 Domino Server: Session Type='EccalGient', Nostname=' erver is created. ed to Domino Server: Name='', Version='Release 8.5.1/5	(1)', User ID='(2)', Reques	<pre>', Platform='Windows/02' ited II09/551='false'. ', Platform='Windows/82'</pre>	

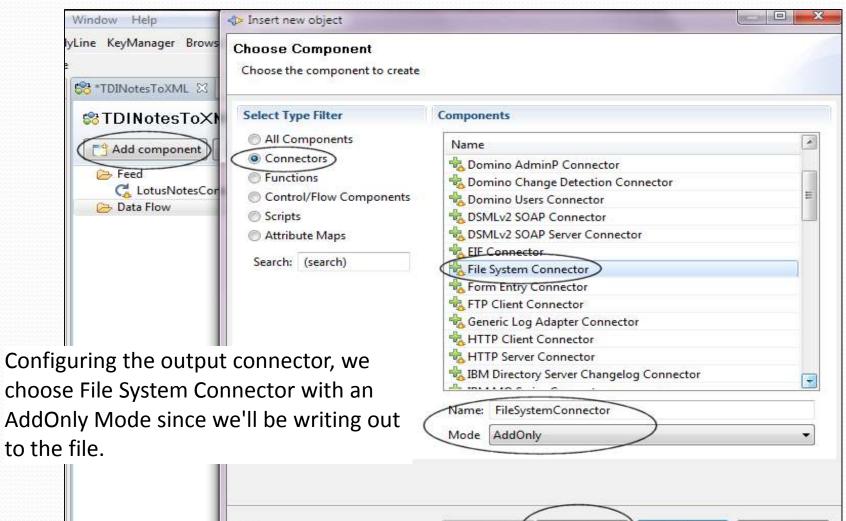
Now we add the field names we'll be exporting...



And how it looks when all the mapping is done...

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	looks like once the four field names have been added to the mapping	Map Add Delete More Work Attribute bookAuthor bookPublishedDate bookRating bookTitle	Assignment conn.bookAuthor conn.bookPublishedDate conn.bookRating conn.bookTitle	

Now, we'll configure the Data Flow Connector...



< Back

Next >

Finish

Cancel

2

Op

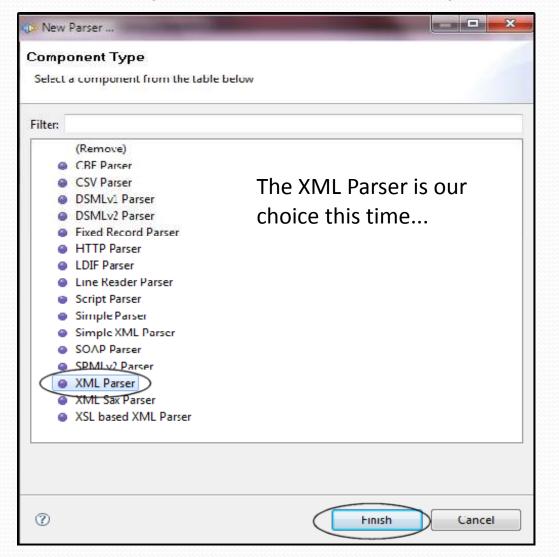
Expand

Collapse

Get the actual location of the file...

Insert new object	Contraction of the local data and the local data an	
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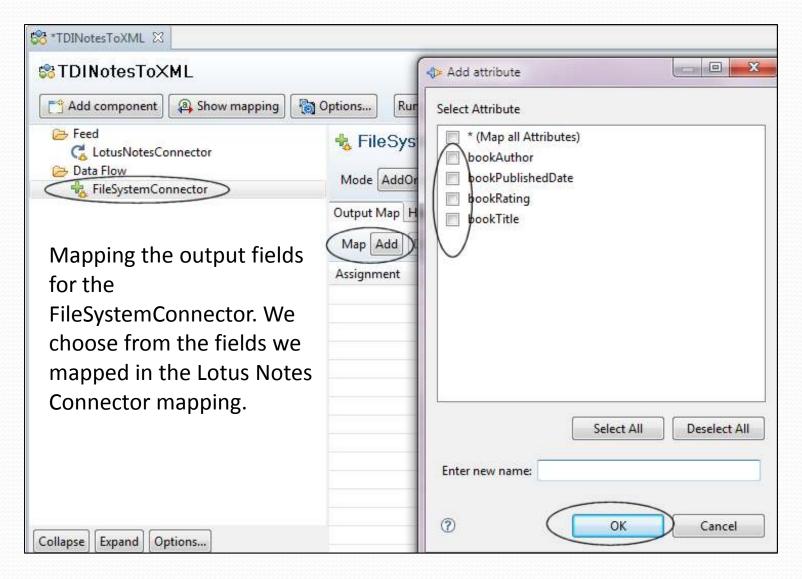
The next option selects the parser...



We have to make sure the parser is configured...

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entries						?
		Detailed Log				?
	Advanced					
	0	< Bac	k Next >	Finish	Cancel	

Select the fields we'll be outputting to the XML file...



The XML connector is now configured...

Tivoli Directory Integrator - TDINotesToXML/	AssemblyLines/TDINotesToXML.assemblyline - Tivoli Dir	rectory Integrator				
File Edit Navigate Search Project Run	File Edit Navigate Search Project Run Window Help					
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😰 🐢 Tivoli Directory Integrator 🔂 Resource	2					
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		work.bookRating	bookRating			
		work.bookTitle	bookTitle			

With that done, we see our mapping for the FileSystemConnector. But instead of simply taking the data "as is", we want to modify the data as it is written out.

Reformatting the author's name for output...

😫 *TDINotesToXML 🖾				
Show mapping	ptions) Run 🔹			
😕 Feed 🧲 LotusNotesConnector	Map Add Delete Browse Data			
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going to be. If we click on				
that, we can use JavaScript	LotusNotesConnector.bockAuthor	>	Substitution tex	t 📝 Enabled
to reformat the data.	temp = conn.getString("	bookAuthor");		
	commaPos = temp.indexOf			
	if (commaPos == -1) {			
	<pre>ret.value = temp;</pre>			
	} else {			
	<pre>ret.value = temp.su }</pre>	bstr(commaPos + 1) + "	" + temp.substr(0, commaPos);
Collapse Expand Options	*			

Here, we are changing the name from Last, First to First Last name format. temp is the variable for the value of bookAuthor, and ret.Value returns the field modification.

Reformatting the ratings field...

St *TDINotesToXML					
🐯 TDINotesToXML					
Add component	ow mapping 🛛 🙀 Optic	ons Run 🔻 🕻	2.		
 Feed LotusNotesConnector Data Flow FileSystemConnector 	W	Map Add Delete Browse Data York Attribute C LotusNotesConnector bookAuthor bookPublishedDate bookRating bookTitle .otusNotesConnector.bookRating temp = conn.getString(") switch (temp)	Assignment temp = conn.getString("bookAuthor conn.bookPublishedDate conn.bookRating conn.bookTitle	Component Attribute [Source] getString bookPublishedDate bookRating bookTitle Substitution text	Trabled
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Run the job...

🖏 *TDINotesToXML	🗘 TDINotesToXML 🛛
E 🔾 🗙 🗎	
20:52:39,721 INFO	- [LotusNotesConnector] CTGDIV002I Opening Session to Domino Server: Session Type='LocalClient',, Hostname='{1}', User ID=' 🔺
20:52:40,127 INFO	- [LotusNotesConnector] CTGDIV049I Session to Domino Server is created.
20:52:40,127 INFO	- [LotusNotesConnector] CTGDIV005I Sucessfully connected to Domino Server: Name='', Version='Release 8.5.1 September 28, 20
20:52:40,142 INFO	- [LotusNotesConnector] CTGDIV015I Database search returned 87 documents.
20:52:40,158 INFO	- CTGDIS0871 Iterating.
20:52:40,329 INFO	- CTGDIS088I Finished iterating.
20:52:40,329 INFO	- CTGDIS100I Printing the Connector statistics.
20:52:40,345 INFO	- [LotusNotesConnector] Get:87
20:52:40,345 INFO	- [FileSystemConnector] Add:87
20:52:40,345 INFO	- CTGDIS104I Total: Get:87, Add:87.
20:52:40,345 INFO	- CTGDIS1011 Finished printing the Connector statistics.
20:52:40,345 INFO	- CTGDIS080I Terminated successfully (0 errors).

The job was done, we ran it, and the console shows the result of the run. The 87 documents in the Notes database were written in XML format to a text file in less than a second.

111

The output file (note the data reformatting...)

le Edit Format View Help	
<pre>2xml version="1.0" encoding="UTF-8"?></pre>	
DocRoot>	
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<pre><bookauthor> Dan Brown</bookauthor> <bookpublisheddate>2009</bookpublisheddate> <bookrating>Average</bookrating> <booktitle>The Lost Symbol</booktitle> <entry> <bookauthor> John Saul</bookauthor> <bookpublisheddate>2009</bookpublisheddate> <bookrating>Average</bookrating> <bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><bookrating><</bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></bookrating></entry></pre>	And here's the XML output file, complete with data reformatting
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<pre><bookauthor> Daniel Silva</bookauthor></pre>	
<entry> <bookauthor> Chase Jarvis</bookauthor> <bookpublisheddate>2009</bookpublisheddate></entry>	

Other possible scenarios!

- Other uses with Notes databases (we think you developers might like)
 - Connect to SQL db (or other relational db) to update Domino web page or database (scheduled or event driven)
 - Notes db to Notes db (one time event)
 - SAP or Peoplesoft connectors

Additional Resources

- IBM Tivoli Directory Integrator Users Group http://www.tdi-users.org
- **Domino Integration Specific Info:** http://sites.google.com/site/dominointegration
- IBM DeveloperWorks Tivoli https://www.ibm.com/developerworks/tivoli/
- **TDI User Forum** http://groups.google.com/group/ibm.software.network.directoryintegrator/topics?gvc=2
- Learning TDI http://www.tdi-users.org/twiki/bin/view/Integrator/LearningTDI
- **Domino Integration with TDI -** http://www.tdi-users.org/twiki/bin/view/Integrator/Domino
- **TDI Redbooks/Redpieces** http://www.redbooks.ibm.com/cgi-bin/searchsite.cgi?query=tivoli+AND+directory+AND+integrator
- And Marie and Tom have done a series of TDI articles on at: http://www.bleedyellow.com/blogs/crashtestchix
- Thanks to Eddie Hartman "TDI Story Teller" eddie.hartman@no.ibm.com

Tune in for more TDI

- Want to find out more about TDI from a Domino administrator's perspective?
- Want to learn more about TDI and directories?
- Or do you just want to learn some more about TDI?
- Join us for our next session TDI The Best Free Tool You've Never Heard Of (The Administrator's Perspective) on May 19
- http://consultantinyourpocket.com/ciyp/ciyp.nsf/dx/tivoli-directory-integrator-thebest-free-tool-youve-never-heard-of-administrators-perspective.htm

Questions? Comments?

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Thomas "Duffbert" Duff - duffbert@gmail.com Blog: Duffbert's Random Musings - http://www.duffbert.com Twitter: duffbert