

aras community event

2010 International Conference

SharePoint PLM

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www.aras.com



Hosted by:

MOTOROLA

1295 E. Algonquin Road
Schaumburg, IL 60196

SharePoint Overview



❖ SharePoint is a business collaboration and content management platform that enables formal and informal business communication, within the enterprise and beyond



❖ Great for team sites, collaboration, simple doc mgt and basic workflows

❖ Widely included in enterprise license agreements (even if you don't currently use it, you may already have licenses)

❖ SharePoint 2010 to be released on May 12th

SharePoint and PLM



- ❖ Many other vendors have attempted to implement PLM within SharePoint
- ❖ In general, SharePoint does informal processes well, however formal/structured processes are difficult:
 - ✓ Document Management with revision & version control
 - ✓ Configuration management, Bills of Material and complex product structure
 - ✓ Complicated business process management for Engineering Change
- ❖ A better approach is to implement a full-fledged PLM package that exposes PLM data in SharePoint

Aras and SharePoint

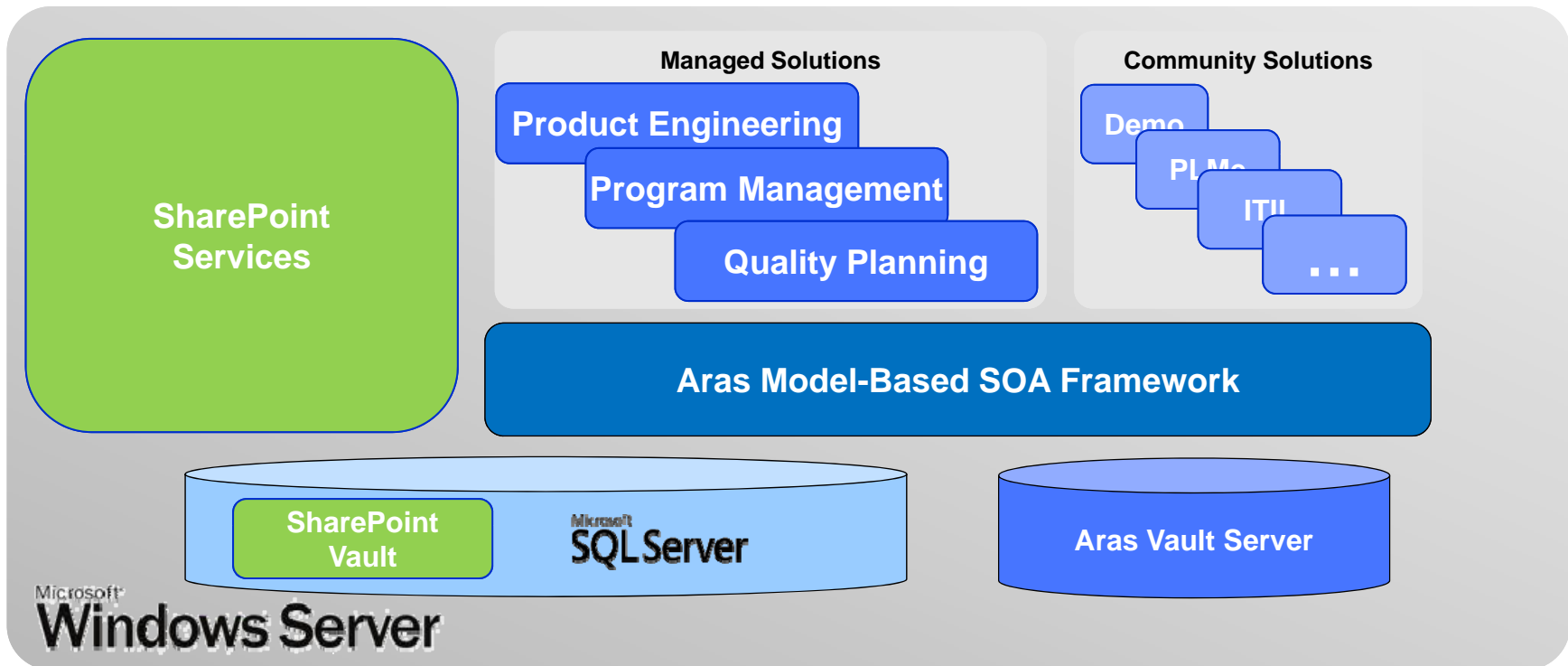
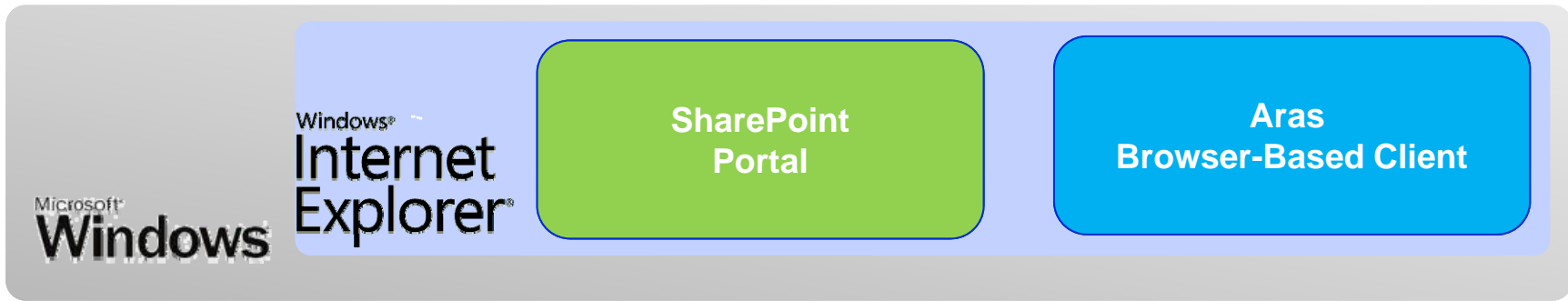


- ❖ SharePoint is not required to use Aras
- ❖ There are multiple options for companies who would like to use Aras and SharePoint together for PLM
- ❖ Aras SharePoint Connector is available today
 - Search, View, Upload/Download SharePoint Documents from inside Aras Innovator
- ❖ Collaborative development ongoing with Microsoft to expose Aras in SharePoint for complete PLM
- ❖ Enable SharePoint users to view PLM data and use comprehensive PLM features

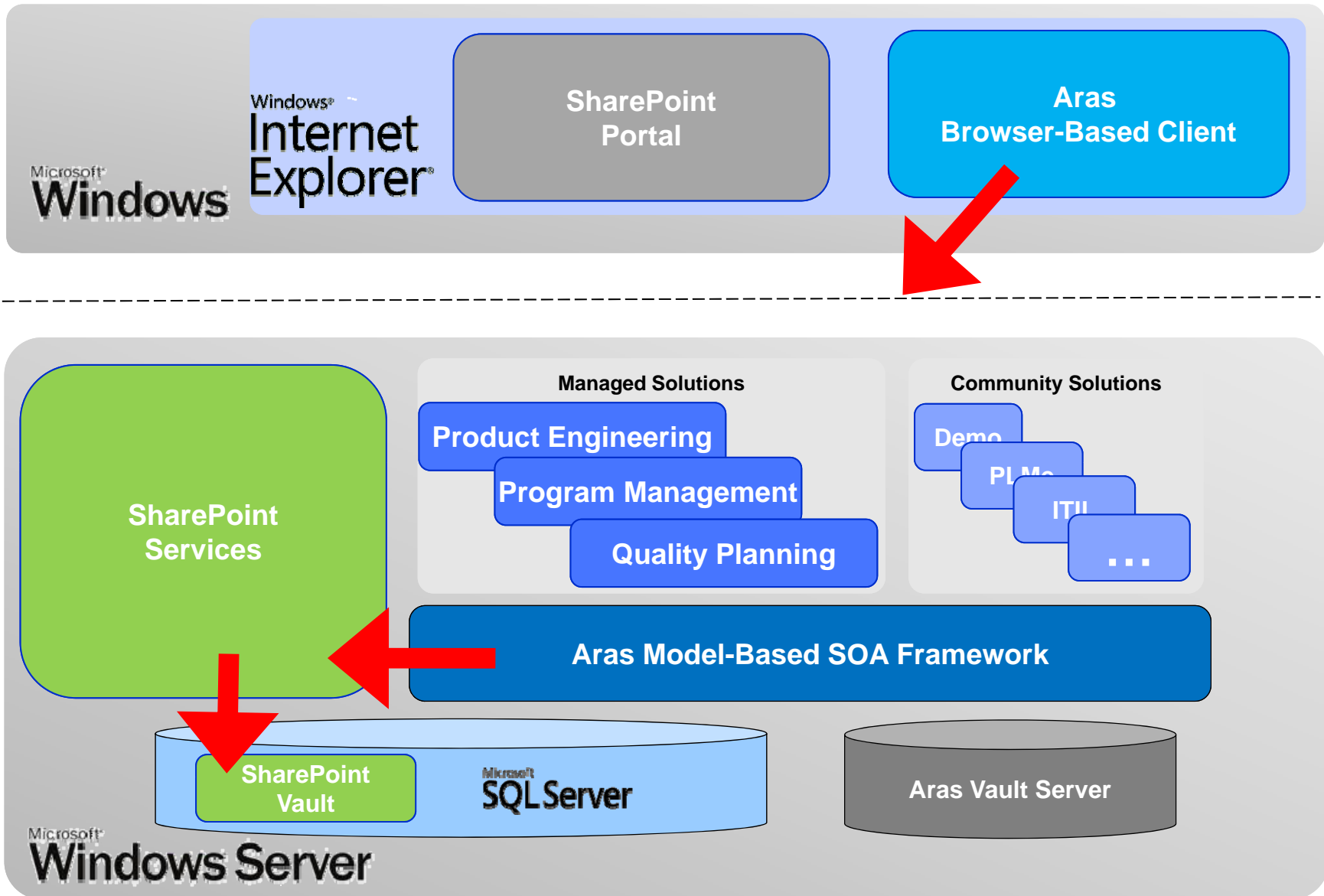
Codeplex Project



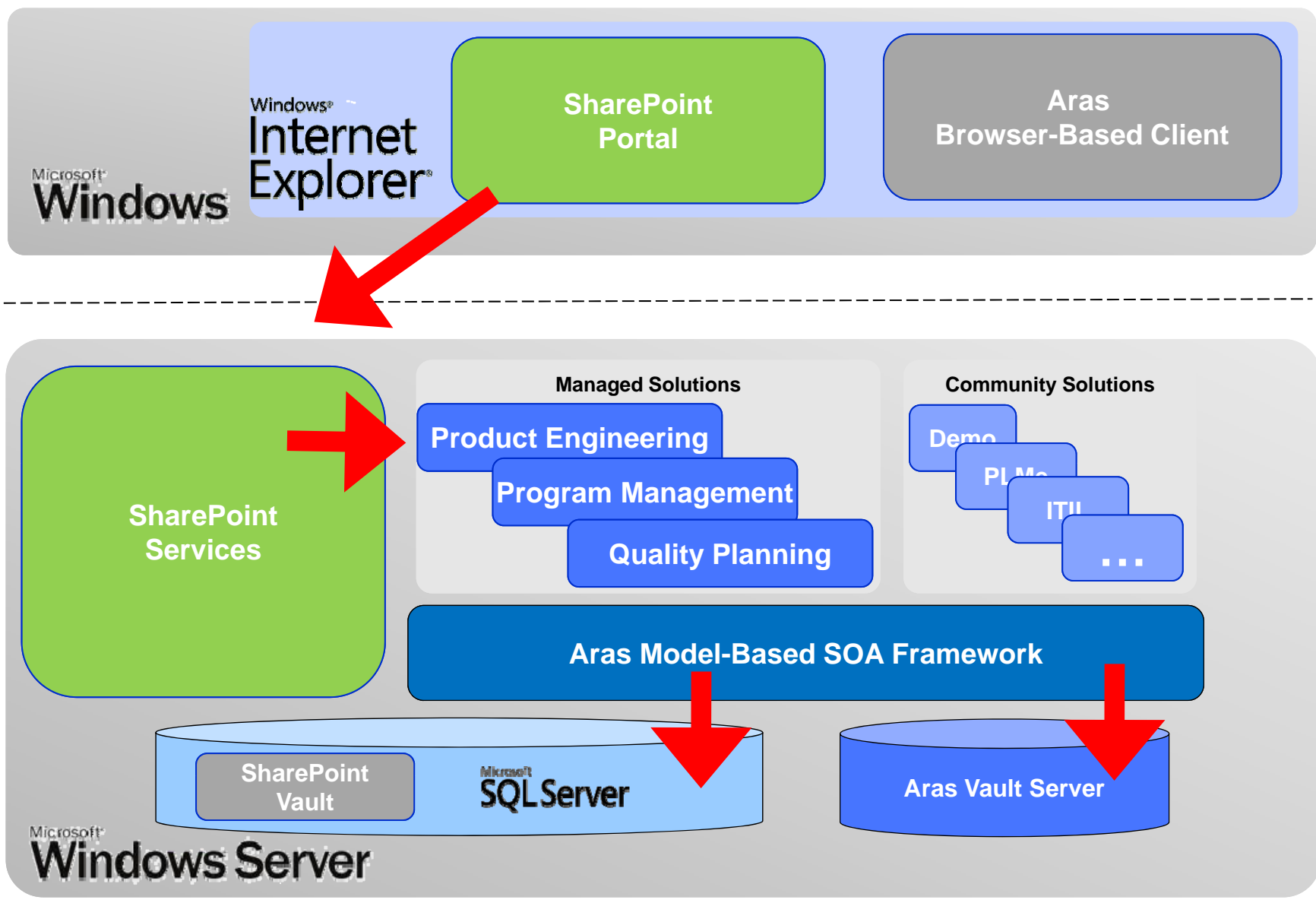
SharePoint Options



SharePoint Option 1



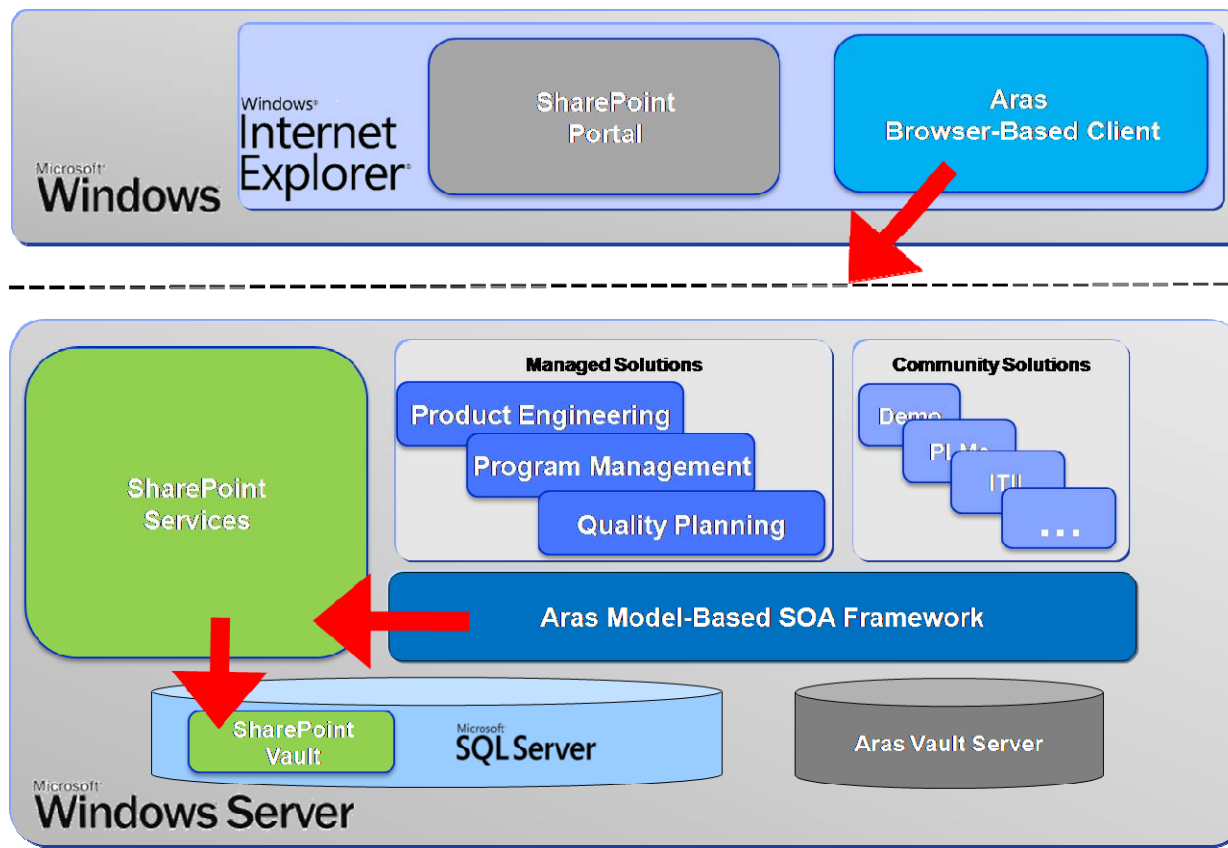
SharePoint Option 2



SharePoint Option 1 Details



- ❖ SharePoint Documents exposed in Aras Innovator
- ❖ Available today in every download



SharePoint Library Definition



Aras Innovator - Windows Internet Explorer

aras INNOVATOR®

Saturday, May 08, 2010 5:54 PM

File Edit View Search Actions Reports Tools Help

Administration

- Actions
- Calendars
- Dashboards
- Database Upgrades
- E-Mail Message
- Files
- FileTypes
- Forms
- Grids
- Identities
- ItemTypes
- Languages
- Life Cycle Maps
- Lists
- Locales
- Methods
- Notification Messages
- PackageDefinitions
- Permissions
- Preferences
- RelationshipTypes
- Reports
- Revisions
- Saved Searches
- Sequences
- SharePoint Libraries**
- SQLs
- Users

Simple Search Page Size: Max Results: Current As Of: Today

SharePoint Site URL	SharePoint Site T...	SharePoint Docu...	Name Of Generat...	Authentication Ty...
http://localhost:81	Top	3D Library	SP_3D	Windows Authent...
http://PLM-SRV-01	Home	Pages	SPPage	Dedicated User ...

SharePoint Library Definition

Created By: Innovator Admin
 Created On: 4/15/2010
 Modified By: Innovator Admin
 Modified On: 5/8/2010
 Locked By:
 Major Rev: A
 Generation: 1
 State: Released

SharePoint Library Definition

SharePoint Site URL: http://localhost:81

Authentication Type: Windows Authentication Only

SharePoint User:

SharePoint User Password:

SharePoint User Domain:

Refresh List

SharePoint Document Library Name: 3D Library

SharePoint Document Library ID: {AD640532-3FE5-4E58-9884-6E4F5F1D73D6}

Name Of Generated Document Type: SP_3D

Label Of Generated Document Type: 3D File

Plural Label Of Generated Document Type: 3D Files

Ready

Aras INNOVATOR®

Ready Innovator Admin boon vendetta92 Items 1-2 of 2, Page 1 of 1 Messages: 0

SharePoint Documents



Aras Innovator - Windows Internet Explorer

aras INNOVATOR Saturday, May 08, 2010
6:02 PM

File Edit View Search Actions Reports Tools Help

Simple Search Page Size: 25 Max Results: Current As Of: Today

Document Name	Directory	Document URL	Last Modified [...]	File Size
1000014.asm.1.3D	3D Library	/3D Library/1000014.asm.1.3D	3/26/2010	7754747
aa-alkaline.prt.1.3D	3D Library	/3D Library/aa-alkaline.prt.1.3D	3/26/2010	61094
alps_skrtlbe010.prt.1.3D	3D Library	/3D Library/alps_skrtlbe010.prt.1.3D	3/26/2010	32574
batt_bottom_radon_recharge.prt.1.3D	3D Library	/3D Library/batt_bottom_radon_recharge.prt.1.3D	3/26/2010	99720
batt_button_alka_x802291.prt.1.3D	3D Library	/3D Library/batt_button_alka_x802291.prt.1.3D	3/26/2010	68419
batt_button_radon_coil.prt.1.3D	3D Library	/3D Library/batt_button_radon_coil.prt.1.3D	3/26/2010	60108
batt_case_bottom_alka_x803554.prt.1.3D	3D Library	/3D Library/batt_case_bottom_alka_x803554.prt.1.3D	3/26/2010	72672
batt_case_top_alka_x803553.prt.1.3D	3D Library	/3D Library/batt_case_top_alka_x803553.prt.1.3D	3/26/2010	115227
batt_contact_alka_nrl.prt.1.3D	3D Library	/3D Library/batt_contact_alka_nrl.prt.1.3D	3/26/2010	61205
batt_contact_alka_nr.prt.1.3D	3D Library	/3D Library/batt_contact_alka_nr.prt.1.3D	3/26/2010	72948
batt_head_assy.asm.1.3D	3D Library	/3D Library/batt_head_assy.asm.1.3D	3/26/2010	229179
batt_head_cont.prt.1.3D	3D Library	/3D Library/batt_head_cont.prt.1.3D	3/26/2010	87731
batt_head_cont_punch.prt.1.3D	3D Library	/3D Library/batt_head_cont_punch.prt.1.3D	3/26/2010	39728
batt_head_hsg.prt.1.3D	3D Library	/3D Library/batt_head_hsg.prt.1.3D	3/26/2010	86529
batt_pack_alka_x803314.asm.1.3D	3D Library	/3D Library/batt_pack_alka_x803314.asm.1.3D	3/26/2010	445657
batt_rcpt_assy_radon.asm.1.3D	3D Library	/3D Library/batt_rcpt_assy_radon.asm.1.3D	3/26/2010	79024
batt_rcpt_cont.prt.1.3D	3D Library	/3D Library/batt_rcpt_cont.prt.1.3D	3/26/2010	38060
batt_rcpt_hsg.prt.1.3D	3D Library	/3D Library/batt_rcpt_hsg.prt.1.3D	3/26/2010	66920
batt_spring_alka_x802292.prt.1.3D	3D Library	/3D Library/batt_spring_alka_x802292.prt.1.3D	3/26/2010	228333
batt_top_radon_recharge.prt.1.3D	3D Library	/3D Library/batt_top_radon_recharge.prt.1.3D	3/26/2010	91653
battery.prt.1.3D	3D Library	/3D Library/battery.prt.1.3D	3/26/2010	62594
battery_contact_a_radon_x802272.prt.1.3D	3D Library	/3D Library/battery_contact_a_radon_x802272.prt.1.3D	3/26/2010	246513
battery_contact_b_radon_x802273.prt.1.3D	3D Library	/3D Library/battery_contact_b_radon_x802273.prt.1.3D	3/26/2010	246556
binding_button_radon_x802267.prt.1.3D	3D Library	/3D Library/binding_button_radon_x802267.prt.1.3D	3/26/2010	61559
button_action_a_x802260.asm.1.3D	3D Library	/3D Library/button_action_a_x802260.asm.1.3D	3/26/2010	90401

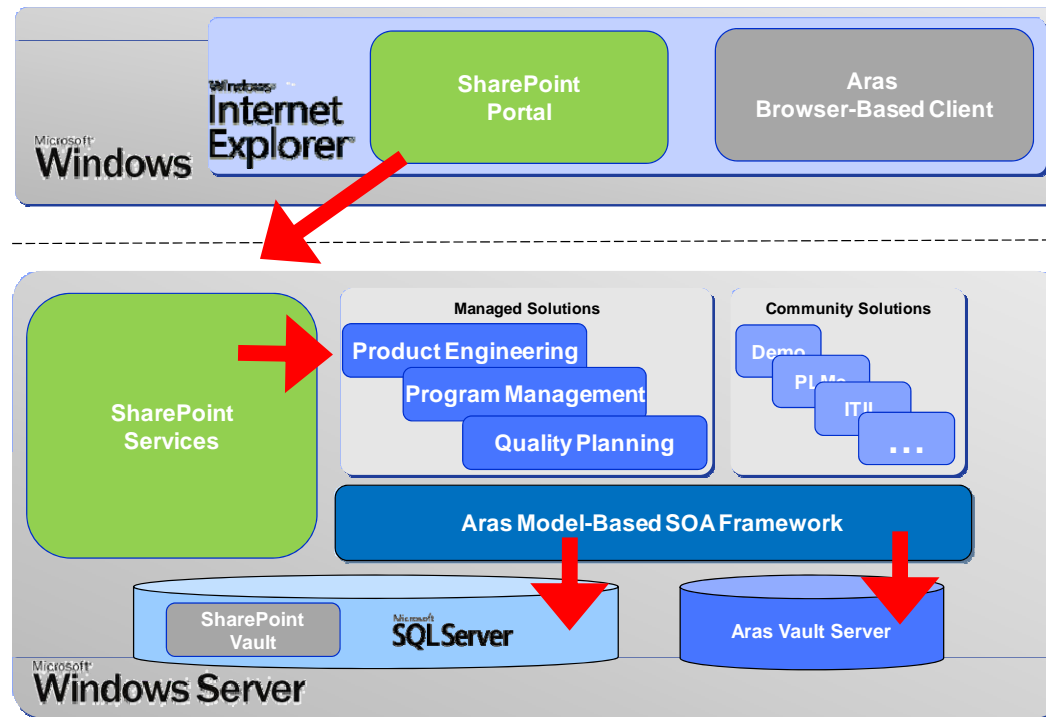
3D File
Created By:
Created On:
Modified By:
Modified On:
Locked By:
Major Rev:
Generation:
State:

Ready Innovator Admin boon vendetta92 Items 1-25 of 50, Page 1 of 2 aras INNOVATOR Messages: 0

SharePoint Option 2 Details



- ❖ Aras items exposed in SharePoint
- ❖ Co-development ongoing with Microsoft & Actify
- ❖ Contact Aras if you're interested



Part Grid



Site Actions | Browse | List Tools | Items | List | Give Feedback | boon/home

New Item | New Folder | View Item | Edit Item | Version History | Item Permissions | Attach File | Workflows | Approve/Reject | I Like It | Tags & Notes

Documents | Site Pages | Shared Documents | 3D Library | Lists | Calendar | Tasks | **Parts** | Documents | ECOs | Discussions | Team Discussion | Recycle Bin | All Site Content

Part Number	Name	Revision	State	Classification	Make / Buy	Unit	Owner	Release Date
X803875-001	PCBA,ARGON ADAPTOR BOARD	B-2	Released	/Part/Other	Buy	EA	Iben Thorell	2/4/2008 6:33 PM
X805092-001	CONN 10+10 SHROUD HDR C-GRID III	A-1	Released	/Part/Other	Buy	EA	Iben Thorell	5/18/2008 9:16 PM
X800389-001	HDD,LATCH,ARM	C-2	Released	/Part/Strategic	Buy	EA	Wriju Ghosh	6/30/2008 5:12 PM
X805501-001	DIO,MOSFET,SSV,56A,DPAK	A-1	Released	/Part/Other	Buy	EA	Makoto Yamagishi	2/18/2008 3:12 AM
X802006-001	CAP,CER,SM,0.068 UF,10 V,X5R,+/-10%,0402	B-1	Released	/Part/Commodity	Buy	EA	Wriju Ghosh	12/23/2007 2:28 AM
X850486-001	RES-Fxd,SM,0.1 ohm,1%,.063W,0402,Common,004,Master MSPN	A	Released	/Part/Commodity	Make	EA	Mohammad Chami	9/21/2008 1:21 AM
X802271-002	PLSTC,LF,CAP,ABS+TPE,THUMBSTICK,WRD/WRLCONTROLLER	B	Released	/Part/Strategic	Buy	EA	Dariusz Korzun	9/24/2008 11:55 PM
X805373-001	DISCONNECT MALE INSLU 18-22AWG .25"	A-1	Released	/Part/Other	Buy	EA	Mohammad Chami	12/3/2007 1:02 PM
X805713-001	SMB VERTICAL 50 OHM	A-1	Released	/Part/Other	Buy	EA	Mohammad Chami	1/10/2008 1:02 PM
X02014-007	IC,DIGITAL VIDEO ENCDR/CLKR GNRTR/THRML SNSR,ANA,FAB REV B03	D-2	Released	/Part/Strategic	Buy	EA	Mohammad Chami	12/24/2008 12:19 PM
X804836-001	CONN,18PIN MINI-FIT PANEL MOUNT CONNECTOR	A-1	Released	/Part/Other	Buy	EA	Dariusz Korzun	4/22/2008 5:12 AM
X801999-002	IC-RF,2.4GHZPROP,XCVR,LF,S/M,LMX4270,LLP-32	B-1	Released	/Part/Strategic	Buy	EA	Lisa Miller	12/18/2007 6:33 PM
X800435-001	RES,SM,240 OHM,1%,1/16W,0402	C-2	Released	/Part/Commodity	Buy	EA	Makoto Yamagishi	10/7/2008 8:19 PM
X803795-001	ASSY,PCB,MU ADAPTOR PCB	B-1	Released	/Part/Other	Buy	EA	Ryan Ihrig	2/5/2008 2:14 PM
X805443-001	IC,FIN1031 4-BIT DIFF DRIVER	A-1	Released	/Part/Other	Buy	EA	Eric Swift	1/21/2009 12:04 AM
X807328	Battery Contact Alka NI	B	Released	/Part/Other	Make	EA	Ram Thirunavukkarasu	11/29/2009 7:28 PM
X802112-001	CAP,CER,SM,150 PF,50 V,NPO,+/-5%,0402	B-4	Released	/Part/Commodity	Buy	EA	Lee Theng Chia	4/9/2008 12:38 AM
X801122-001	IND-FER,S/M,LF,60_OHM0469CED375A24A0D810DFDE5DB79B11B00MHZ,25%,0.5A,0603,DCR0.1_OHMS	C-1	Released	/Part/Commodity	Buy	EA	William Vong	8/26/2008 9:02 PM
X805763-001	TRANS DARLINGTON NPN TO220	A-2	Released	/Part/Other	Buy	EA	Dariusz Korzun	3/24/2008 1:21 AM
X804862-001	IC,O,ZENER,30V	A-1	Released	/Part/Other	Buy	EA	Chris Lineback	6/8/2008 10:00 PM
X803795-001	CAP,CER,SM,2700 PF,50 V,X7R,+/-10%,0402	B-2	Released	/Part/Commodity	Buy	EA	Chris Lineback	9/17/2008 7:50 PM
X803795-001	RES,SM,1.5K OHM,1%,1/16W,0402	B-3	Released	/Part/Commodity	Buy	EA	Makoto Yamagishi	2/10/2009 4:52 PM
X803795-001	BATT,HW,LF,Console ,AA BATTERIES	C	Released	/Part/Commodity	Buy	EA	Wriju Ghosh	1/4/2008 11:36 PM
X803795-001	CONN,KEYPAD,RUBBER,7-PACK,WRD/WRLCONTROLLER,LF	D	Released	/Part/Commodity	Buy	EA	William Vong	3/22/2008 3:45 AM
X804705-001	CONN,4 PIN 0.1"KK MOLEX CONNECTOR	A-1	Released	/Part/Other	Buy	EA	Eric Swift	11/1/2008 9:14 PM
X802816-001	FIRMWARE ASSY,ARGON MODULE	A-1	Released	/Part/Assembly	Make	EA	Iben Thorell	6/29/2008 8:04 PM
X802615-001	PCB,XENON-MU,64MEG,LEXAR	A-1	Released	/Part/Commodity	Make	EA	Lisa Miller	9/22/2008 4:57 PM
X803988-001	CAP,CER,SM,1000 PF,50 V,X7R,+/-10%,0402	B	Released	/Part/Commodity	Buy	EA	Makoto Yamagishi	12/31/2008 5:07 PM
X800334-001	SPRING,HEATSINK RETENTION	E	Released	/Part/Strategic	Buy	EA	Mohammad Chami	5/14/2008 9:45 PM

1 - 30

**Configurable TOC
And Grid Columns**

Open Items in Aras Innovator

Live Data Directly from Aras Innovator

Part Detail



Site Actions + Browse Items List

Give Feedback boon/home

Top Parts : Part List

Home KEYPAD Like It Tag & Notes

Part Number	Name	Revision	State	Classification	Make / Buy	Unit	Owner	Release Date
X806416-005	IC,SOC CPU DD3.0 PRODUCTION FAB REV A00 75W	1	Released	/Part/Consigned	Buy	EA	Lisa Miller	3/3/2009 3:55 PM
X803875-001	PCBA,ARGON ADAPTOR BOARD	E-2	Released	/Part/Other	Buy	EA	Iben Thorell	2/4/2008 6:33 PM
X805092-001	CONN,10+10 SHROUD HDR C-GRID III			Other	Buy	EA	Iben Thorell	5/18/2008 9:16 PM
X800389-001	HDD,LATCH,ARM			Strategic	Buy	EA	Wriju Ghosh	6/30/2008 5:12 PM
X805501-001	DIO,MOSFET,55V,36A,DPAK			Other	Buy	EA	Makoto Yamagishi	2/18/2008 3:12 AM
X802006-001	CAP,CER,SM,0.068 UF,10 V,XSR,+/-10%,0402			Commodity	Buy	EA	Wriju Ghosh	12/23/2007 2:28 AM
X850486-001	RES-Fxd,SM,0.1 ohm,1%,.063W,0402,Common,004,Maste			Commodity	Make	EA	Mohammad Chami	9/21/2008 1:21 AM
X802271-002	PLSTC,LF,CAP,ABS+TPE,THUMBSTICK,WRD/WRLCONTRC			Strategic	Buy	EA	Dariusz Korzun	9/24/2008 11:55 PM
X805373-001	DISCONNECT MALE INSLU 18-22AWG .25"			Other	Buy	EA	Mohammad Chami	12/3/2007 1:02 PM
X805713-001	SMB VERTICAL 50 OHM			Other	Buy	EA	Mohammad Chami	1/10/2008 1:02 PM
X02014-007	IC,DIGITAL VIDEO ENCDR/CLK GNRTR/THRM L SNSR, A			Strategic	Buy	EA	Mohammad Chami	12/24/2008 12:19 PM
X804836-001	CONN,18PIN MINI-FIT PANEL MOUNT CONNECTOR			Other	Buy	EA	Dariusz Korzun	4/22/2008 5:12 AM
X801999-002	IC-RF,2.4GHZPROP,XCVR,LF,S/MLMX4270,LLP-32			Strategic	Buy	EA	Lisa Miller	12/18/2007 6:33 PM
X800435-001	RES,SM,240 OHM,1%,1/16W,0402			Commodity	Buy	EA	Makoto Yamagishi	10/7/2008 8:19 PM
X803795-001	ASSY,PCB,MU ADAPTOR PCB			Other	Buy	EA	Ryan Ihrig	2/5/2008 2:14 PM
X805443-001	IC,FIN1031 4-BIT DIFF DRIVER			Other	Buy	EA	Eric Swift	1/21/2009 12:04 AM
X807328	Battery Contact Alka Ni			Other	Make	EA	Ram Thirunavukkarasu	11/29/2009 7:28 PM
X802112-001	CAP,CER,SM,150 PF,50 V,NPO,+/-5%,0402			Commodity	Buy	EA	Lee Theng Chia	4/9/2008 12:38 AM
X801122-001	IND-FER,S/M,LF,60_OHM0469CED375A24A0D810DF,ESD			Commodity	Buy	EA	William Vong	8/26/2008 9:02 PM
X805763-001	TRANS DARLINGTON NPN TO220			Other	Buy	EA	Dariusz Korzun	3/24/2008 1:21 AM
X804862-001	DIO,ZENER,30V			Other	Buy	EA	Chris Lineback	6/8/2008 10:00 PM
X801930-002	CAP,CER,SM,3700 PF,50 V,X7R,+/-10%,0402			Commodity	Buy	EA	Chris Lineback	9/17/2008 7:50 PM
X800694-001	RES,SM,1.5K OHM,1%,1/16W,0402			Commodity	Buy	EA	Makoto Yamagishi	2/10/2009 4:52 PM
X804140-001	BAG,HW,LF,Console_AA BATTERIES			Commodity	Buy	EA	Wriju Ghosh	1/4/2008 11:36 PM
X802269-001	EM,KEYPAD,RUBBER,7-PACK,WRD/WRLCONTROLLER,LF			Commodity	Buy	EA	William Vong	3/22/2008 3:45 AM
X804705-001	CONN,4 PIN 0.1"KK MOLEX CONNECTOR			Other	Buy	EA	Eric Swift	11/1/2008 9:14 PM
X802816-001	FIRMWARE ASSY,ARGON MODULE			Assembly	Make	EA	Iben Thorell	6/29/2008 8:04 PM
X802615-001	PCB,XENON-MU,64MEG,LEXAR			Commodity	Make	EA	Lisa Miller	9/22/2008 4:57 PM
X803988-001	CAP,CER,SM,1000 PF,50 V,X7R,+/-10%,0402			Commodity	Buy	EA	Makoto Yamagishi	12/31/2008 5:07 PM
X800334-001	SPRING,HEATSINK RETENTION			Other	Buy	EA	Mohammad Chami	5/14/2008 9:45 PM

Parts - View Item

View Edit Item Manage

Classification /Part/Strategic

CreatedOn 6/5/2008 6:38 PM

Effective Date 6/30/2008 5:12 PM

Part Number X800389-001

LockedById

MajorRev C-2

MakeBuy Buy

ManagedById Chris Lineback

ModifiedById Chris Lineback

ModifiedOn 6/30/2008 5:12 PM

Name HDD,LATCH,ARM

OwnedById Wriju Ghosh

ReleaseDate 6/30/2008 5:12 PM

State Released

SupersededDate

Unit EA

Close

1 - 30

Done Trusted sites | Protected Mode: Off 100%

Configurable Details Form

3D Viewer



A screenshot of a web browser displaying the Aras Innovator Structure Browser. The browser's address bar shows "Contoso Development Press Releases InnovatorStructureBrowser". The page has a dark blue header with "Give Feedback" and "System Account" buttons. A search bar is visible on the right. The main content area is divided into a left sidebar and a central viewer. The sidebar lists "Documents" and "Aras Innovator Parts" with a tree view of parts including X801798-001, X801799-001, X801899-001, X801900-001, X801800-001, X801897-001, X801898-001, and X801801-001. The central viewer, titled "Aras Innovator Viewer", contains a 3D model of a green and brown mechanical part. The viewer has a toolbar with icons for "Window", "All", "Point", "Part", "Pan", "Rotate", "Zoom", and "Show Tree". Below the viewer is a table for "Aras Innovator Composite Data" with columns for "File Name", "Modified On", and "Modified By". The table contains one row: "Document 1.txt", "2010-04-20T11:28:51", and "SHAREPOINT\system". The browser's status bar at the bottom shows "Local intranet | Protected Mode: Off" and a zoom level of "100%".

**Embedded Actify
3D Viewer in
SilverLight**

Structure Browser



The screenshot displays the Aras Innovator Structure Browser interface. On the left, a navigation pane shows a tree view of parts under the heading "Aras Innovator Structure Browser". The tree includes parts with IDs: X801798-001, X801799-001, X801899-001, X801900-001, X801800-001, X801897-001, X801898-001, and X801801-001. A red box highlights this tree view, with a red arrow pointing to the text "Structure Browser" and "Tab View with Relationships".

The main area shows a 3D model of a gear assembly. A toolbar above the model includes icons for Dimension Marker, Notes Marker, Bounding Box, and Mass. A yellow tooltip box over the model reads: "Right click the part and try the Reflective Render Mode".

At the bottom, a section titled "Aras Innovator Composite Data" contains a table with the following data:

ECO #	Change Description	New	Phase In	State Change Category	Originator	Change Analyst
ECO-100001	This is my change description	New	Phase In	Innovator Admin	Change Specialist I	
ECO-100002	Another reason for change description	New	Phase In	Innovator Admin	Change Specialist I	

A red box highlights the table, with a red arrow pointing to the text "Tab View with Relationships".

Structure Browser

Tab View with Relationships