

RED HAT :: CHICAGO :: 2009

SUMMIT

How to Achieve TCO Savings of up to 89% Using an Open Source Stack Instead of SharePoint

Dr Ian Howells
CMO, Alfresco
Sept 2009

presented by



Inspirational FUD

Open Source doesn't have Support

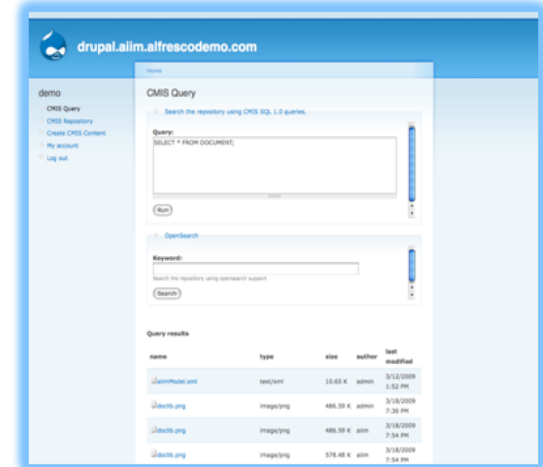
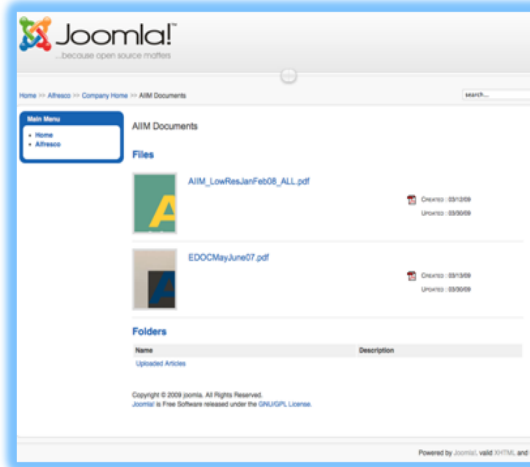
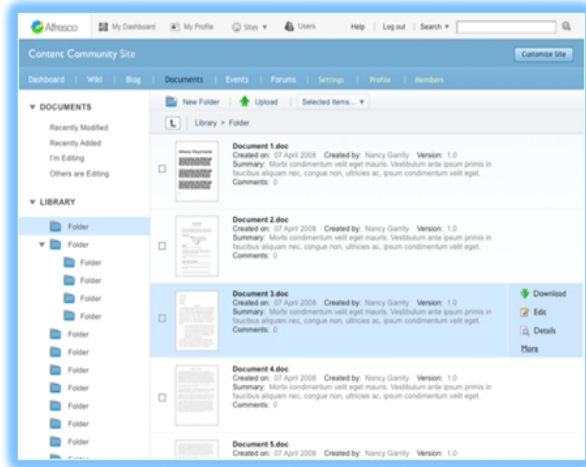
OK it does have commercial SLA's BUT ^{Of course you know it is more expensive} Open Source is not suitable for the Enterprise

OK it is Supported, is used by major Enterprises in mission critical systems BUT it is more expensive really

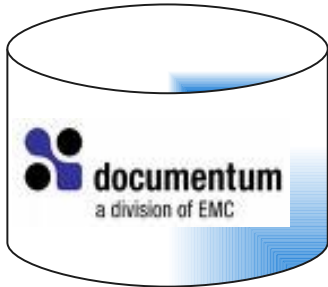
OK, OK, OK ...



Commoditization CMIS Interoperability



CMIS Content Application



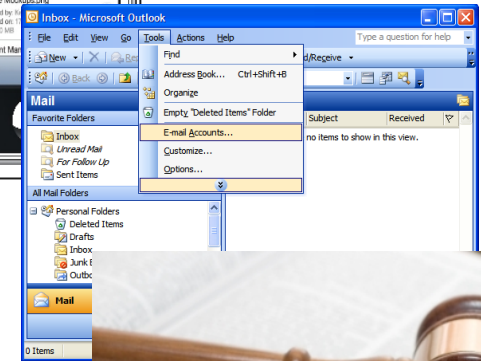
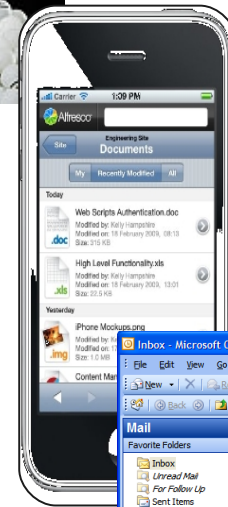
CIO Priorities for 2009 Forrester

Reduce IT Costs

Improve Integration Between Applications

Use IT to Increase Innovation

Support Regulatory Applications



Accenture

Goal of Presentation and White Paper

Not a theoretical 5 Year ROI study

Publicly available information – review it

Immediate cost

A tool for customers to question vendors

Ask vendors to explain specifically:

What are you **selling** me?

What am I **getting**?

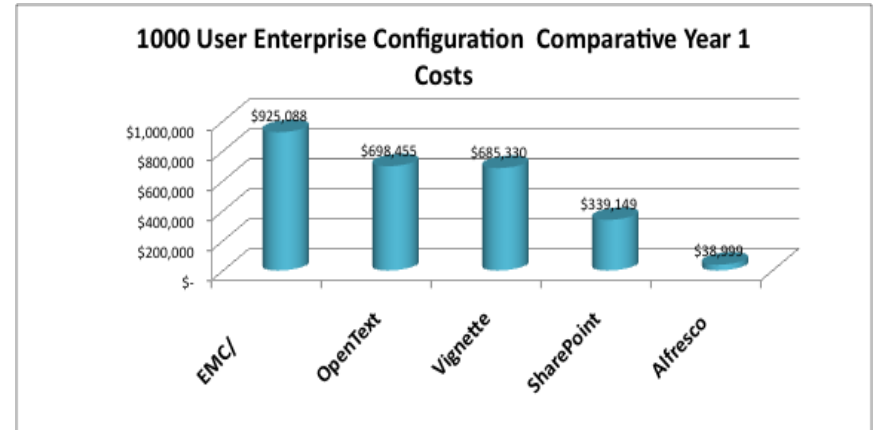
What **extra software** do I need?

Can you **break down** the cost?

Why does it **cost** this amount?

What happens if I get **audited** in the future?

After the initial discount what do I pay?



Explain why is it so expensive compared to

Agenda

ECM Pricing

Methodology

ECM Vendor Cost

ECM Stack Cost

Alfresco

Summary

More Information

Traditional ECM Pricing and Myths

Pricing Model

Complex

1000's options

Hidden Extras Pricing Model

Lack Transparency

Audit Implications

Cost

Per User

1 Hour per Year/24 Hours Per Day

Type Content Accessed

Usage

Intranet, Internet, Extranet, Website

SharePoint – Free

WSS, MOSS Standard and Enterprise

Methodology

Basic System – Content Management for the Masses

Office Integration

Collaboration

Content Management

Workflow or BPM

Transformation/Rendition Management

Search

1000 Enterprise Config and 100 Users Standard Config

Publicly Available Pricing

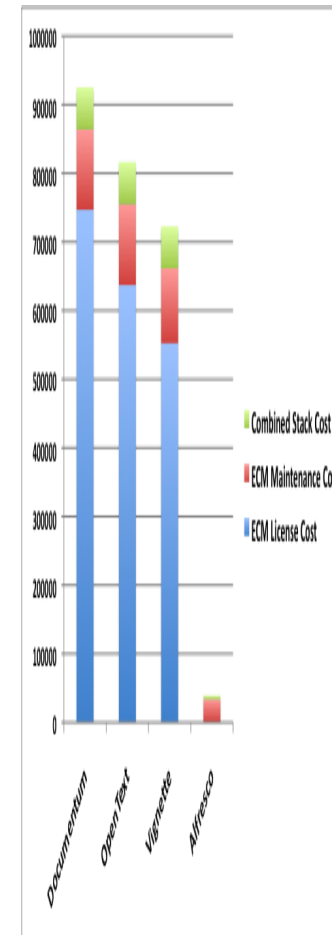
Year One Cost

Cost Analysis

Stack

Support and Maintenance

License



Publicly Available Pricing

The screenshot displays the GSA Advantage! website interface. At the top, there is a navigation bar with links for Tutorial, Customer Assistance, What's New, Register, and LOGIN. Below this, a secondary navigation bar includes GSA e-Buy, Schedules e-Library, Order History/Status, Profile, Parked Carts, and Reports. The main content area is divided into several sections:

- Search Section:** A search bar with the prompt "What are you looking for?" and a "Find it!" button. Below the search bar are fields for "Enter keywords, part#/NSN, manufacturer, contractor, contract #", "Look In...", and "All Categories".
- Welcome Message:** A central banner with a star background and the text: "Welcome. Since 1949, it has been our mission to help agencies better serve the public by meeting - at best value - their needs for products and services, and to simplify access to information. For over 12 years, GSA Advantage has been a reliable and proven one-stop online resource for thousands of Federal employees worldwide. GSA Advantage offers the most comprehensive selection of approved products and services from GSA contracts. Thanks for choosing GSA!"
- Special Programs:** A sidebar on the left lists several programs with icons: Strategic Sourcing BPAs, Environmental, AbilityOne Program, Disaster Relief, Wildland Fire, and Homeland Security.
- Frequently Asked Questions:** A section with a "Problem with an Order..." icon and a list of questions: "Who do you contact?", "What do you do?", "Password Assistance", "How do I get order status?", "About overseas ordering", and "How do I get a GSA Supply Catalog?".
- Products and Services:** Two columns of lists. The "Products" column includes: Building & Industrial, Furniture & Furnishings, Hospitality, Cleaning, & Chemicals, IT Solutions & Electronics, Laboratory, Scientific, & Medical, Law Enforcement, Fire, & Security, Office Solutions, Recreation & Apparel, Services, Tools, Hardware, & Machinery, and Vehicles & Watercraft. The "Services" column includes: Charge Card Services, Facilities Services, Financial Services, Fleet, Office Services, Professional Services, Property Disposal, Security Services, Technology Services, Transportation Services, and Travel Services.
- Right Sidebar:** Contains a "Shopping Cart" (0 items: \$0.00), "Requisition Status", "NSN Quick Order", "FEDSTRIP", "Get quotes fast with GSA e-Buy", "State & Local" (with sub-sections for Disaster Recovery, Information Technology, and Register here!), and "Contractor Info" (with links for "How do I get a GSA contract?" and "How do I get on GSA Advantage or e-Buy?").

At the bottom of the page, a warning message reads: "*** WARNING *** This is a U.S. General Services Administration computer system that is 'FOR OFFICIAL USE ONLY.' This system is subject to monitoring. Therefore, no expectation of privacy is to be assumed. Individuals found performing unauthorized activities are subject to disciplinary action including criminal prosecution. Privacy and Security"

The price analysis GSA does to establish the Government's Multiple Award Schedule (MAS) negotiation objective should start with the best discount given to any of the vendor's customers.

EMC/Documentum

1000 User

\$863,937

500 User

\$455,682

100 User

\$129,078

GSA Pricing

Product					
SIN	Part Number	Description	Price	Units	Cost
132-33	ADMNSTRTR	DOCUMENTUM ADMINISTRATOR ST	\$3,074.06	1	\$3,074.06
132-33	AIS	AUTHORING INTEGRATION SERVICES CPU	\$15,370.28	1	\$15,370.28
132-33	CLLB-EDITION	COLLABORATION EDITION ST	\$245.92	1000	\$245,920.00
132-33	CNTNT-SERVER	CONTENT SERVER ST	\$92.22	1000	\$92,220.00
132-33	COLLAB-SVCS	COLLABORATIVE SERVICES CPU	\$15,370.28	1	\$15,370.28
132-33	CS-MOSS-PLT	CONTENT SERVICES SHAREPOINT PLATFORM - CLIENT	\$122.96	1000	\$122,960.00
132-33	DTS-1	DOCUMENT TRANSFORMATION SVCS CPU	\$6,148.11	1	\$6,148.11
132-33	WEBTOP-SEAT	WEBTOP CLIENT ST	245.92	1000	\$245,920.00
Maintenance					
132-34	ADMNSTRTR-BSC	Basic Maintenance for: DOCUMENTUM ADMINISTRATOR ST	\$574.25	1	\$574.25
132-34	AIS-BSC	Basic Maintenance for: AUTHORING INTEGRATION SERVICES CPU	\$2,871.25	1	\$2,871.25
132-34	CLLB-EDITION-BSC	Basic Maintenance for: COLLABORATION EDITION ST	\$45.94	1000	\$45,940.00
132-34	CNTNT-SERVER-BSC	Basic Maintenance for: CONTENT SERVER ST	\$17.61	1000	\$17,610.00
132-34	COLLAB-SVCS-BSC	Basic Maintenance for: COLLABORATIVE SERVICES CPU	\$2,871.25	1	\$2,871.25
132-34	DTS-1-BSC	Basic Maintenance for: DOCUMENT TRANSFORMATION SVCS CPU	\$1,148.50	1	\$1,148.50
132-34	WEBTOP-SEAT-BSC	Basic Maintenance for: WEBTOP CLIENT ST	45.94	1000	\$45,940.00
Total License Cost					\$746,982.73
Total Maintenance Cost					\$116,955.25
Total FirstYear Cost					\$863,937.98

Product					
SIN	Part Number	Description	Price	Units	Cost
132-33	ADMNSTRTR	DOCUMENTUM ADMINISTRATOR ST	\$3,074.06	1	\$3,074.06
132-33	AIS	AUTHORING INTEGRATION SERVICES CPU	\$15,370.28	1	\$15,370.28
132-33	CLLB-EDITION	COLLABORATION EDITION ST	\$245.92	100	\$24,592.00
132-33	CNTNT-SERVER	CONTENT SERVER ST	\$92.22	100	\$9,222.00
132-33	COLLAB-SVCS	COLLABORATIVE SERVICES CPU	\$15,370.28	1	\$15,370.28
132-33	CS-MOSS-PLT	CONTENT SERVICES SHAREPOINT PLATFORM - CLIENT	\$122.96	100	\$12,296.00
132-33	DTS-1	DOCUMENT TRANSFORMATION SVCS CPU	\$6,148.11	1	\$6,148.11
132-33	WEBTOP-SEAT	WEBTOP CLIENT ST	245.92	100	\$24,592.00
Maintenance					
132-34	ADMNSTRTR-BSC	Basic Maintenance for: DOCUMENTUM ADMINISTRATOR ST	\$574.25	1	\$574.25
132-34	AIS-BSC	Basic Maintenance for: AUTHORING INTEGRATION SERVICES CPU	\$2,871.25	1	\$2,871.25
132-34	CLLB-EDITION-BSC	Basic Maintenance for: COLLABORATION EDITION ST	\$45.94	100	\$4,594.00
132-34	CNTNT-SERVER-BSC	Basic Maintenance for: CONTENT SERVER ST	\$17.61	100	\$1,761.00
132-34	COLLAB-SVCS-BSC	Basic Maintenance for: COLLABORATIVE SERVICES CPU	\$2,871.25	1	\$2,871.25
132-34	DTS-1-BSC	Basic Maintenance for: DOCUMENT TRANSFORMATION SVCS CPU	\$1,148.50	1	\$1,148.50
132-34	WEBTOP-SEAT-BSC	Basic Maintenance for: WEBTOP CLIENT ST	45.94	100	\$4,594.00
Total License Cost					\$110,664.73
Total Maintenance Cost					\$18,414.25
Total FirstYear Cost					\$129,078.98

OpenText

1000 User

\$637,304

100 User

\$196,754

GSA Pricing

License				
	SKU	Description	Cost 100 named users	Cost 1000 named users
	LLPGECMDM	Liveline Document Management	\$66,660.54	\$226,687.50
	LLDIRSRV	Liveline Directory Services	\$9,664.65	\$32,865.60
	LLRMGT	Liveline Records Management	\$18,135.00	\$80,917.51
	LLCOMM	Liveline Communities (full named users)	\$19,142.50	\$85,412.93
	LLMONT	Liveline ECM - Monitoring Agent (2x for 1000 user cluster)	\$27,202.50	\$54,405.00
	LLPORTWSPHR	Liveline Portal Integration Kit (full named users)	\$13,332.11	\$45,337.50
	PSORECBIN	Liveline Recycle Bin	\$9,974.25	\$44,504.63
	PSOENHREND	Enhanced PDF Renditions	\$9,974.25	\$44,504.63
	LSDK	Liveline ECM Enterprise SDK for 10 users	\$22,668.75	\$22,668.75
Maintenance				
	SKU	Description	Cost 100 named users	Cost 1000 named users
	LLPGECMDM	Liveline Document Management	\$12,332.20	\$41,937.19
	LLDIRSRV	Liveline Directory Services	\$1,787.96	\$6,080.14
	LLRMGT	Liveline Records Management	\$3,354.98	\$14,969.74
	LLCOMM	Liveline Communities (full named users)	\$3,541.36	\$15,801.39
	LLMONT	Liveline ECM - Monitoring Agent (2x for 1000 user cluster)	\$5,032.46	\$10,064.93
	LLPORTWSPHR	Liveline Portal Integration Kit (full named users)	\$2,466.44	\$8,387.44
	PSORECBIN	Liveline Recycle Bin	\$1,845.24	\$8,233.36
	PSOENHREND	Enhanced PDF Renditions	\$1,845.24	\$8,233.36
	LSDK	Liveline ECM Enterprise SDK for 10 users	\$4,193.72	\$4,193.72
Total Annual Maintenance cost			\$36,399.59	\$117,901.25
Total First Year Cost, License + Maintenance			\$196,754.55	\$637,304.05

Vignette

1000 User

\$661,477

500 User

\$442,182

100 User

\$266,746

GSA Pricing

SIN	Part Number	Description*	Price	Comments	Units	Cost
132-33	VIBUS-AMSO	Vignette Adapter for Microsoft Office	\$13,481.11	Office Integration	1	\$13,481.11
132-33	VIBUS-BASE	Vignette Business Integration Studio	\$44,937.03	Transformations	1	\$44,937.03
132-33	VSPCC-BASE	Vignette Portal, Content, Collaboration Suite	\$134,811.08	Baseline cost to get the CD (called a "program fee")	1	\$134,811.08
132-33	VSPCCNU1-BASE	1 Vignette Portal, Content, Collaboration Suite Named User	\$359.50	Number of Named Users	100	\$35,950.00
132-34	VSSUP-ENTP-NE-VSPCC-BASE	Enterprise Support Maintenance for Vignette Portal, Content, Collaboration Suite	\$29,658.44	Baseline on Enterprise Maintenance	1	\$29,658.44
132-34	VSSUP-ENTP-NE-VSPCCNU1-BASE	Enterprise Support Maintenance for 1 Vignette Portal, Content, Collaboration Suite Named User	\$79.09	Named user Maintenance	100	\$7,909.00
				Total License Cost		\$229,179.22
				Total First Year Maintenance Cost		\$37,567.44
				Total First Year Cost		\$266,746.66

SharePoint

1000 User

\$318,738

100 User

\$24,669

Pricing from
www.microsoft.com

Product Name	SKU	Price	Units	Cost
Microsoft® SharePoint Enterprise CAL Single License/Software Assurance Pack OPEN Level C User CAL User CAL	76N-00013	\$111.00	1000	\$111,000.00
Microsoft® Office SharePoint Server Single License/Software Assurance Pack OPEN Level C	H04-00249	\$6,584.00	2	\$13,168.00
Microsoft® Office SharePoint CAL Single License/Software Assurance Pack OPEN Level C User CAL User CAL	H05-00377	\$139.00	1000	\$139,000.00
Total				\$263,168.00
Microsoft Open Value Program - Actual First Year Total				\$318,738.00

Product Name	SKU	Price	Units	Cost
Microsoft® Office SharePoint Server Single License/Software Assurance Pack OPEN	H04-00221	\$6,718	1	\$6,718
Microsoft® Office SharePoint CAL Single License/Software Assurance Pack OPEN Device CAL Device CAL	H05-00165	\$142	100	\$14,200
Total				\$20,918
Microsoft Open Value Program - Actual First Year				\$24,669

SharePoint Pricing

Complete Microsoft Stack

Basic Pricing

<http://office.microsoft.com/en-us/sharepointserver/FX1021>

Microsoft Software Assurance

<http://www.microsoft.com/licensing/mla/default.aspx>

Functionality of Office SharePoint Server 2007, both the Standard and



All Products in One Subscription

Document Management, Collaboration and *Web Content Management, Records Management, Image Management, Digital Asset Management*

All Components included

BPM, Workflow, Transformation ...

No CAL's

No Extra cost for different Client

CPU based

Alfresco

1000 User

\$33,500

\$46,250

100 User

\$18,500

Product	Description	Price	Units	Cost
Alfresco Server	Document Management, Collaboration, Web Content Management	\$15,000	2	\$30,000
Test Server		\$3,500	1	\$3,500
	Total License Cost			\$0
	Total First Year Subscription Cost			\$33,500
	Total First Year Cost			\$33,500

Product	Description	Price	Units	Cost
Alfresco Server	Document Management, Collaboration, Web Content Management	\$15,000	2	\$30,000
Test Server	Document Management, Collaboration, Web Content Management	\$3,500	2	\$7,000
Clustering	Document Management, Collaboration, Web Content Management			\$9,250.00
	Total License Cost			\$0
	Total First Year Subscription Cost			\$46,250
	Total First Year Cost			\$46,250

Product	Description	Price	Units	Cost
Alfresco Server	Document Management, Collaboration, Web Content Management	\$15,000	1	\$15,000
Test Server		\$3,500	1	\$3,500
	Total License Cost			\$0
	Total First Year Subscription Cost			\$18,500
	Total First Year Cost			\$18,500

ECM Stack Costs

Application Server

Database

Operating System

Oracle Database & Application Server

1000 User DB

\$59,950

100 User DB

\$21,350

Pricing

1000 User Enterprise Configuration				
	Named User Plus	Software Update License & Support	Processor License	Software Update License & Support
Oracle Database				
Enterprise Edition	\$950	\$209	\$47,500	\$10,450
Application Server Products				
WebLogic Server Enterprise Edition	\$500	\$110	\$25,000	\$5,500
Total Year 1 Broken Out			\$72,500	\$15,950
Total Year 1				\$88,450

100 User Standard Configuration				
	Named User Plus	Software Update License & Support	Processor License	Software Update License & Support
Oracle Database				
Standard Edition	\$350	\$77	\$17,500	\$3,850
Application Server Products				
WebLogic Server Standard Edition	\$200	\$44	\$10,000	\$2,200
Total Year 1 Broken Out			\$27,500	\$6,050
Total Year 1				\$33,550

<http://www.oracle.com/corporate/pricing/pricelists.html>

Microsoft Database

1000 User DB

\$17,210

100 User DB

\$8,605

Pricing

Product Name	SKU	Price	Units	Total
2 SQL Server 2008 Standard Servers - 1000 Users				
Microsoft® SQL Server Standard Edition Single License/Software Assurance Pack OPEN 1 Processor License	228-05104	\$8,605.00	2	\$17,210.00
Microsoft Open License - Actual First Year				\$17,210.00

Product Name	SKU	Price	Units	Total
1 SQL Server Standard Server - 100 Users				
Microsoft® SQL Server Standard Edition Single License/Software Assurance Pack OPEN 1 Processor License	228-05104	\$8,605.00	1	\$8,605.00
Microsoft Open License - Actual First Year				\$8,605.00

<http://www.microsoft.com/licensing/mla/default.aspx>

MySQL

1000 User Gold

\$2999

100 User Silver

\$1999

Product	Description	Price	Units	Cost
MySQLEnterprise	Basic SLA - Web support, 2 Day response, 2 incidents	\$599	1	\$599
MySQLEnterprise	Silver SLA - Business Hours Phone support, Web support, Unlimited incidents	\$1,999	1	\$1,999
MySQLEnterprise	Gold SLA - 24*7 Phone Support 2 Hour response, Web support, Unlimited incidents	\$2,999	1	\$2,999
MySQLEnterprise	Platinum SLA - 24*7 Phone Support 1 Hour response, Web support, Unlimited incidents	\$4,999	1	\$4,999

Pricing

<http://mysql.com/products/enterprise/features.html>

Microsoft Windows

1000 User

\$3201

100 User

\$2176

Pricing

3 Windows Servers - 1000 Users				
Product Name	SKU	Price	Units	Total
Microsoft® Windows® Server Standard Single License/Software Assurance Pack OPEN Level C	P73-00499	\$1,067.00	3	\$3,201.00
Microsoft Open License - Actual First Year				\$3,201.00

2 Windows Servers - 100 Users				
Product Name	SKU	Price	Quantity	Total
Microsoft® Windows® Server Standard Single License/Software Assurance Pack OPEN	P73-00352	\$1,088.00	2	\$2,176.00
Microsoft Open License - Actual First Year				\$2,176.00

<http://www.microsoft.com/licensing/mla/default.aspx>

Red Hat Application Stack

Stack

- Apache HTTP Server
- JBoss Application Server
- JBoss Hibernate
- MySQL and PostgreSQL
- Red Hat Enterprise Linux

Product	Description	Price	Units	Cost
Red Hat Enterprise Linux	Basic Subscription - Web support, 2 Day response, Unlimited incidents	\$349	1	\$349
Red Hat Enterprise Linux	Standard Subscription - 12*5 Phone support, Web support, Unlimited Incidents	\$799	1	\$799
Red Hat Enterprise Linux	Premium Subscription - 24*7 Phone support, Web support, Unlimited Incidents	\$1,299	1	\$1,299
Red Hat Application Stack	JBoss Application Server, JBoss Hibernate, Red Hat Enterprise Linux, MySQL, Apache web server			
Red Hat Application Stack	Basic Subscription - Web support, 2 Day response, Unlimited incidents	\$1,999	1	\$1,999
Red Hat Application Stack	Standard Subscription - 12*5 Phone support, Web support, Unlimited Incidents	\$5,499	1	\$5,499
Red Hat Application Stack	Premium Subscription - 24*7 Phone support, Web support, Unlimited Incidents	\$8,499	1	\$8,499

1000 User Premium Enterprise Stack - \$8499

100 User Basic Stack - \$1999

Summary Year 1 Cost Savings

1000 Users

Save 85% to 96%

100 Users

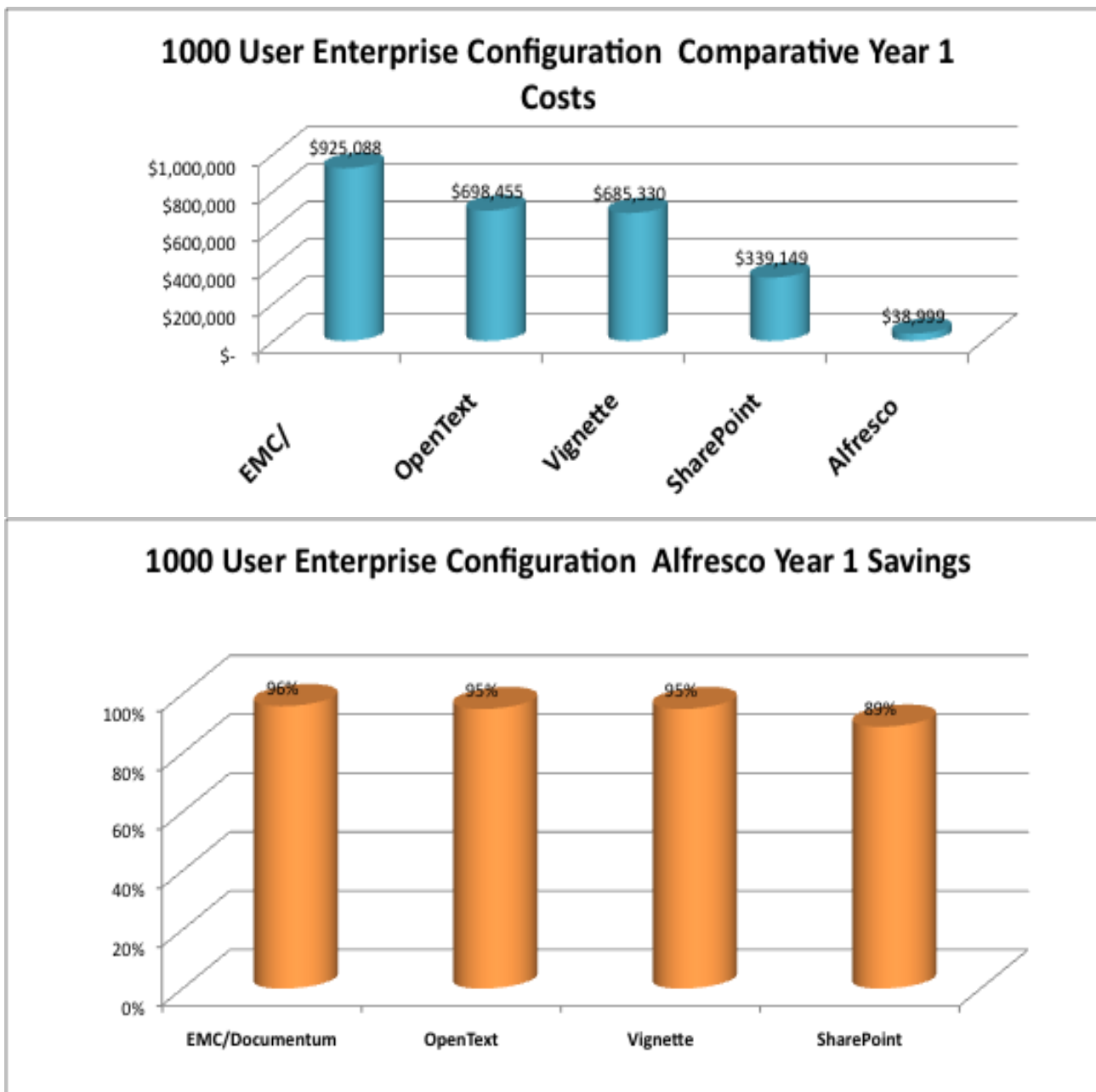
Save 42% to 85%

1000 User Enterprise Configuration						
Vendor	Configuration	ECM Cost	Combined Stack Cost	Total Year One Cost	Alfresco Year One Saving	Percentage Year One Saving
Documentum	Oracle+Windows (Assume Application Server Included)	\$863,937	\$61,151	\$925,088	\$887,790	96%
OpenText	Oracle+Windows	\$637,304	\$61,151	\$698,455	\$661,157	95%
Vignette	Oracle+ Windows	\$661,477	\$61,151	\$722,628	\$685,330	95%
SharePoint	2 SQL Server Standard Edition + 3 Windows Servers	\$318,738	\$20,411	\$339,149	\$301,851	89%
Alfresco	Red Hat Application Stack Standard Subscription	\$33,500	\$5,499	\$38,999		
Alfresco	Red Hat Enterprise Linux Standard + MySQL Gold	\$33,500	\$3,798	\$37,298		

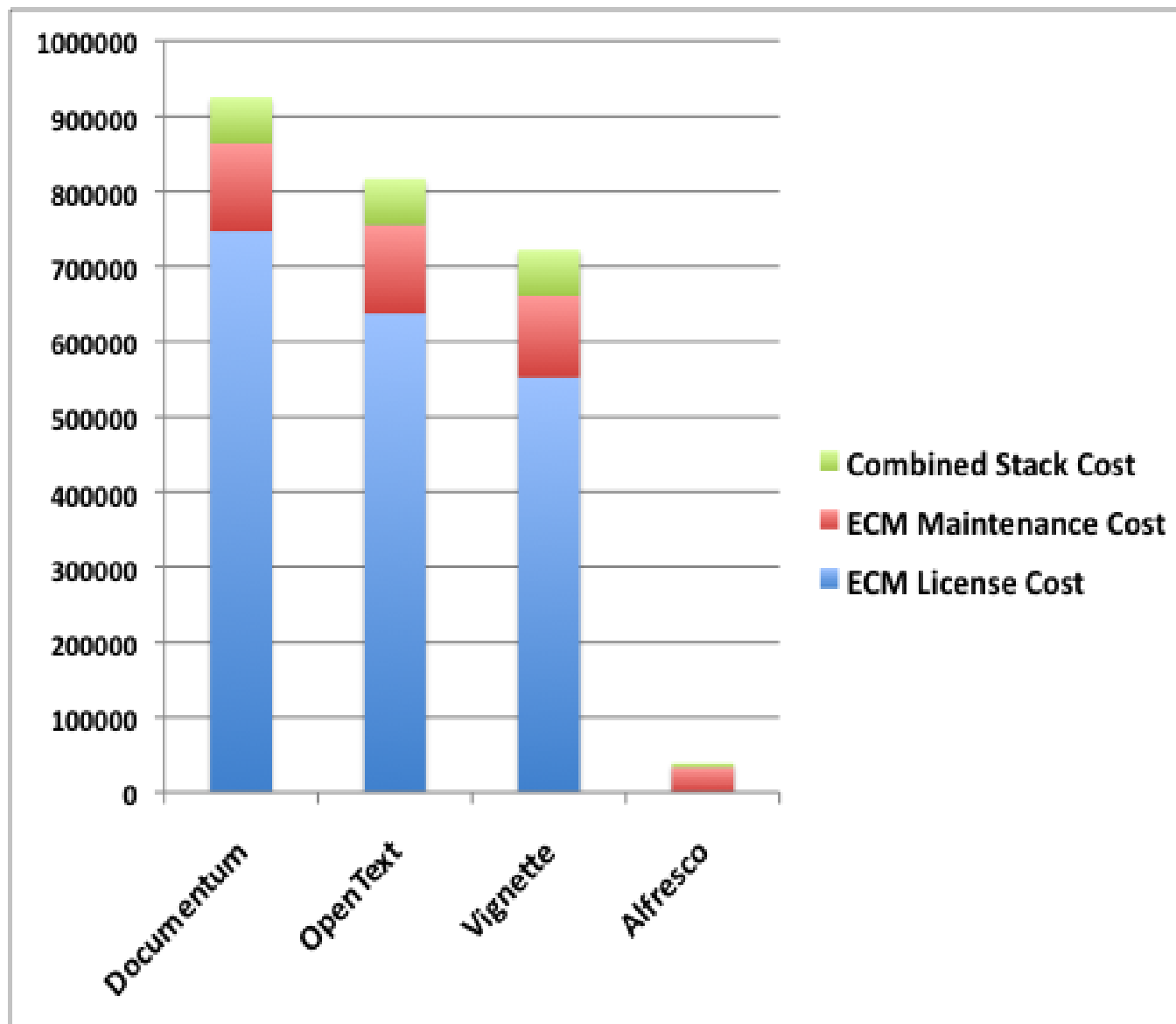
1000 User Clustered High Availability Enterprise Configuration						
Vendor	Configuration	ECM Cost	Combined Stack Cost	Total Year One Cost	Alfresco Year One Saving	Percentage Year One Saving
Documentum	Oracle+Windows (Assume Application Server Included)	\$863,937.00	\$61,151	\$925,088	\$875,040.00	95%
OpenText	Oracle+Windows	\$637,304.00	\$61,151	\$698,455	\$648,407.00	93%
Vignette	Oracle+ Windows	\$661,477.00	\$61,151	\$722,628	\$672,580.00	93%
SharePoint	2 SQL Server Standard Edition + 3 Windows Servers	\$318,738.00	\$20,411	\$339,149	\$289,101.00	85%
Alfresco	Red Hat Application Stack Standard Subscription	\$46,250.00	\$5,499	\$51,749		
Alfresco	Red Hat Enterprise Linux Standard + MySQL Gold	\$46,250.00	\$3,798	\$50,048		

100 User Basic Configuration						
Vendor	Configuration	ECM Cost	Combined Stack Cost	Total Year One Cost	Alfresco Year One Saving	Percentage Year One Saving
Documentum	1 SQL Server Standard Edition + 2 Windows Servers	\$129,078	\$10,781	\$139,859	\$119,360	85%
OpenText	1 SQL Server Standard Edition + 2 Windows Servers	\$196,754	\$10,781	\$207,535	\$187,036	90%
Vignette	2 SQL Server Standard Edition + 2 Windows Servers	\$266,746	\$10,781	\$277,527	\$257,028	93%
SharePoint	1 SQL Server Standard Edition + 2 Windows Servers	\$24,669	\$10,781	\$35,450	\$14,951	42%
Alfresco	Red Hat Application Stack Basic Subscription	\$18,500	\$1,999	\$20,499		
Alfresco	Red Hat Enterprise Linux Basic + MySQL Silver	\$18,500	\$2,348	\$20,848		

Summary

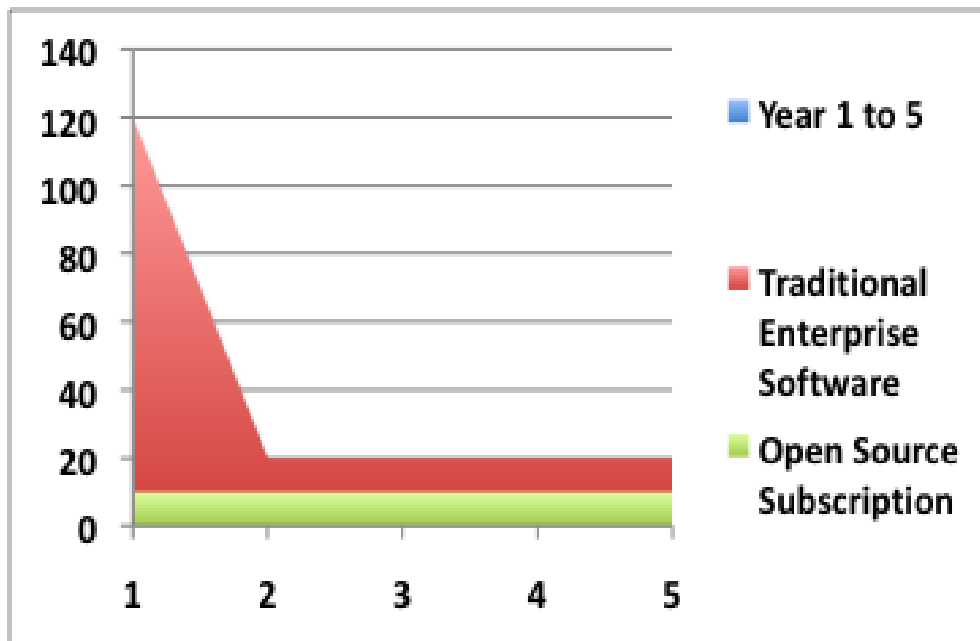


Summary Cost Breakdown

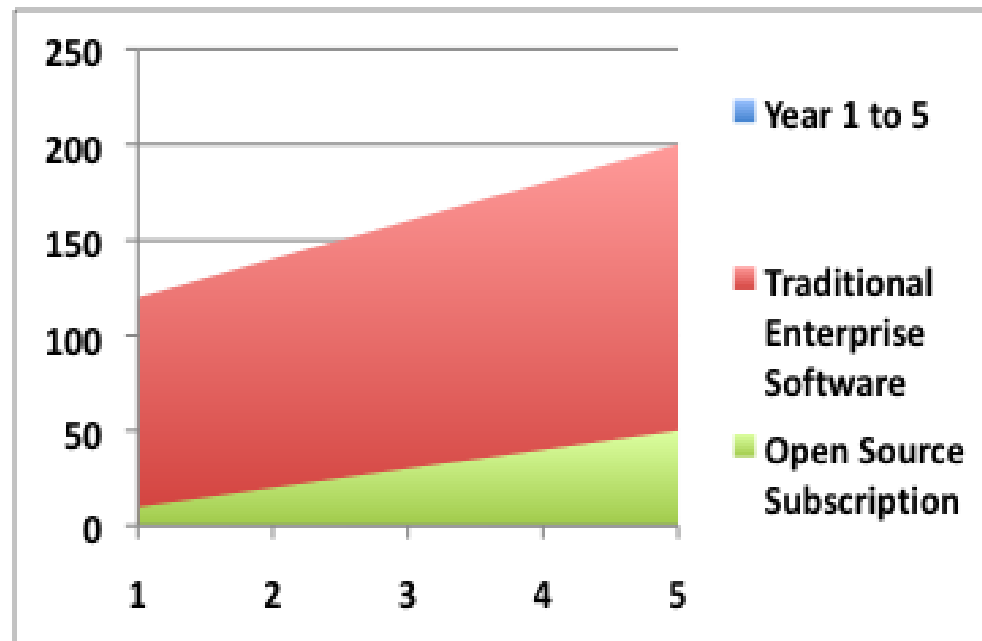


Open Source vs. Enterprise Software Model

Annual Cost



Cumulative Cost



Low Upfront Cost
Lower Project Risk
Op Ex vs. Cap Ex

Increasing Savings

Summary

Late 1990's and early 2000's

The ECM Suite

Single Vendor Strategy

Lock-In

Today

Short Approved Vendor Shortlist

Cost this Year

Reuse Existing Hardware, Software and Skills

Choose per Project

Cost

Functionality

Review Renewals

Start Planning for CMIS

More Information

White Paper – Total Cost of Ownership for Enterprise Content Management

Detailed Breakdown of ECM Vendor Pricing

Detailed Breakdown of Stack Pricing

Detailed Comparison Matrix

URL's for all Price Lists

All calculations were performed in November 2008

CMIS Developer Resources

Main Menu

- Home
- CMIS Wiki Articles
- CMIS Forums
- Other CMIS Resources
- CMIS Blogs

CMIS Resources

This site will be used as a development resource for Content Management Interoperability Services (CMIS).

To start, please check out these Alfresco resources...

- [Alfresco CMIS Blog](#)
- [Alfresco CMIS Forum](#)
- [Alfresco CMIS Wiki Article](#)

...Or check out one of the other resources listed on this site

CMIS Related Wiki Pages

This page contains links to CMIS related Wiki pages.

- [CMIS on Wikipedia](#)
- [Alfresco CMIS Wiki page](#)
- [Alfresco CMIS Web Scripts Reference Wiki page](#)
- [Alfresco Draft Implementation Status Wiki page](#)
- [Alfresco CMIS Model Mapping Wiki page](#)
- [Jackrabbit Wiki](#)

CMIS Related Forums

This page contains links to CMIS related forums.

- [Alfresco CMIS Forum](#)
- [IBM CMIS Forum](#)

CMIS Related Resources

This page contains links to other CMIS related resources.

Specification Related Sites

- [OASIS CMIS Technical Committee charter](#)
- [Cover Pages \(hosted by OASIS\) - Information on CMIS](#)
- [OASIS CMIS Specification \(Draft v0.6\)](#)
- [Google Search - CMIS](#)
- [Google Groups - CMIS Interoperability](#)

<http://www.oasis-open.org/committees/download.php/32014/Draft%2060.zip>

Development Resources

- [AIIM IECM's Demonstration of CMIS](#)
- [Alfresco CMIS Demo Site](#)
- [Drupal Module \(Client APIs\)](#)
- [Flex CMIS Client \(Client APIs\)](#)
- [CMIS Spaces \(Client APIs\)](#)
- [Alfresco CMIS Test Harness Source Code](#)
- [Alfresco CMIS extension to Apache Abdera](#)
- [Samples and Developer Resources \(Alfresco Community\)](#)

Questions

