

Achieving **Best in Class Software Savings** through **Optimization not Negotiation**

August 10, 2012



Agenda



- Introduction
- Industry Trends
- Best in Class Software Asset Management
 - How good is best in class?
 - How did they get there?
 - How good can they get?
- Conclusion

Thesis Statements



- The software Industry is changing through: vendor consolidation, data center consolidation, outsourcing, changing pricing metrics, budget constraints.
- It is possible to take advantage of the changing software industry to reduce your unit cost.
- Best-in-Class companies focus on product management to reduce unit cost.
- Software Unit costs can be further reduced by 40% for Best-in-Class companies.

ISAM's software industry pricing practices & trends research comes from.....



A database that took over 100 full-time employee years to build!

- Over 100 million product usage data points
 - ✓ 26,242 asset names
 - Every mainframe product classified among 422 product categories
 - Each product shows every available product alternative
 - ✓ 2372 software vendors
 - IBM, CA, BMC, SAS, Compuware, Oracle, HP, Symantec, VMware etc.
- > Over 8 million customer pricing data points
 - ✓ Industry best in class pricing by product
 - $\checkmark\,$ Industry best in class by category
- Over 1000 major corporations
 - ✓ 13 major outsourcers
 - $\checkmark~$ 4 of the Top 5 global IT consulting companies
 - $\checkmark~$ 5 of the Top 10 global corporate brands
 - ✓ Largest U.S. & Canadian Federal & state agencies
- Tied to ISAM proprietary IBM & ISV vendor pricing applications

Agenda



Introduction

Industry Trends

- Best in Class Software Asset
 Management
 - How good is best in class?
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Industry Trends - 1997



- Many software vendors
- Little correlation between data center size and unit cost
- Lots of products
- 5-7 year ELAs representing 70% of ISV budget
- Pricing based on MIPS or Tiers
- Little product substitution (high vendor retention level)
- Lots of CPUs and data centers
- Costs managed thru negotiation
- Average costs at \$5500 per mip
- Best in class at \$2500 mip

Industry Trends - 2011



- Fewer software vendors
- IBM is in the replacement business
- High correlation between data center size and unit cost
- Reduced products
- 2-3 year ELAs representing 80% of ISV budget
- Pricing based on MIPS, Usage, Sub-capacity, value units
- High product substitution (low vendor loyalty)
- Consolidate CPUs and data centers
- Costs managed thru product management
- Average costs at \$4206 per mip
- Best in class at \$910 mip

SAM Challenges



- Incomplete data
- Inaccurate data
- Cost reduction focused on rates
- Costs managed by departments not responsible for software budget
- Customer requirements to maintain high inventory level
- High rate of product uniqueness

Observations of Common Software Asset Management Practices



optimization

- 1. SAM starts with the contract
 - a. Legal and Financial processes are set up to manage contract compliance
 - b. Database designed to ensure license compliance
- 2. Procurement is set up to manage vendors
- 3. Inventory management is tactical
- 4. Hardware decisions are made with limited software cost analysis
- 5. Costs are managed by negotiating rates
- 6. Unit cost
 - \$4206 Average
 - \$910 Best in Class

How much are the software vendors growing?



IBM has taken 81% of Top 5 vendor's increased revenue



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Software costs are aligned to an outdated paradigm of managing hardware & software as separate discrete assets



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Current license management processes result in significant unplanned expenses related to the cost of true-ups and the subsequent jump in maintenance prices.



Distributed Annual Software Costs

Best in Class data centers have higher concentration of costs on IBM & CA

Most data centers can cut their software costs in half be getting to best in class.



software asset

optimization

Average Unit Cost varies slightly across all industries



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Best in Class spend less than half of an average data center in most industries. Unit Cost



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Disparity in vendor costs result in dramatic cost variances. The variance is greatest with CA at over \$25 million.



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Not knowing the price disparity among vendors can cost a data center millions in lost savings.



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Disparity in software costs by functional activity are dramatic. The variance is greatest with the largest categories and Database Access Tools.



Data centers can save millions in each of the Top 10 functional categories.



Software Cost Variation by Functional Category

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CA & BMC each have the greatest price variation of ISVs in 2 of the 4 categories where ISVs compete

Knowing the pricing variation for each category by vendor, millions in savings can be realized during negotiation.

180% Unit Cost fluctuation as Percentage of Average (Coefficient of Variation) 162% 156% 160% 149% 140% 128% 24% 124% 115% 120% 13% 111% 110% 104% 102% 96% 100% 95% 89% 87% 86% 83% 80% 72% 66% 60% 58% 60% 40% 20% 0% **Operating Systems** Database and File **Development Tools** End User Tools Production Resource and Management Management Performance Management ■ IBM ■ CA ■ Compuware ■ BMC ■ ASG

Large Data Centers

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Database & Development products grow with data center size



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The growth in Development and Database products provide savings opportunities through product standardization and vendor consolidation.



Product Count by Environment

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Industries have comparable number of licensed core functionalities in spite of varying deployed products



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Large number of unique functional activities provide opportunities for significant savings thru product consolidation and data center optimization.



Comparison of Products to number of Functional Categories

All mainframe products are categorized into 80 different L2 & 422 different L3 functional categories.

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How Good is Best in Class?



Although larger data centers have more products ...

Product Count





How Good is Best in Class?



and larger data centers have more vendors ...



Vendor Count



How Good is Best in Class?

Large data centers have lower unit costs.

\$5,765 \$6,000 \$5,454 \$5,000 \$4,000 \$3,292 \$/MIPS \$3,000 \$2,572 \$2,53<mark>3</mark> Best in Class \$2,249 Average \$1,643 \$2,000 \$1,487 \$1,419 \$1,039 \$1,000 \$0-100 - 1,000 0 - 100 1,000 - 5,000 5,000 - 10,000 greater than 10,000

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Data Center MIPS Range

ISAM software asset optimization

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How did Best in Class get there?

Larger data centers are able to reduce the costs of their core products without losing critical functionality



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How did Best in Class get there?



BIC drive costs down across product functionality

\$1,200 \$1,104 \$972 \$923 \$1,000 \$800 \$/MIPS ¢50 \$534 \$600 Best in Class Average \$400-\$285 \$218 \$178 \$200 \$126 \$10<mark>3</mark> \$56 \$0· Production End User Tools Operating Database and Development Resource and File Management Tools Systems Management Performance Management

Unit Cost by Category

Software Category

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BIC utilize product alternatives to reduce software costs -Compuware has the greatest percentage (85%) of installed products which can be replaced – IBM has the least (14%)



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Product Substitution Percentage of Installed Products (by cost) that can be replaced by Competitor



NOTE Replaced products measured by cost

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Small Data Centers: 60% of installed products are available at a lower price



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Best in Class have 29 fewer lower cost products

Product Pricing Summary 1,000 - 5,000 MIPS



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Medium Data Centers: 44% of installed products are available at a lower price



optimization

Best in Class have 39 fewer lower cost products

Product Pricing Summary 5,000 - 10,000 MIPS



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Large Data Centers: 39% of installed products are available at a lower price



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Best in Class have 23 fewer lower cost products Product Pricing Summary greater than 10,000 MIPS



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Best in Class data centers consistently pay less than half of an average data center

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BIC are approaching \$600 (£375) per MIP



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Best in Class software asset management focuses on optimization



software asset optimization





software asset optimization

Traditional IT Software Perspective manages software as an independent asset from hardware. Hardware is standardized across all business units and applications. To minimize software TCO, software & hardware need to be managed as a single asset. Each asset supports either a business unit or application. Hardware standards may be unique to each business unit or application.



When considering vendors to migrate to, IBM is consistently a lower cost alternative – CA is consistently more expensive



Price Difference in Migrating to another Vendor Comparison of Average and Best in Class Pricing



When managing software costs, BIC consider lower cost product alternatives to either migrate to, or as negotiation leverage with current vendor



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Best in class pricing from lowest cost alternative is 73%-95% lower than industry average pricing.

	Product A	Product B	Product C	Product D	<u>Total</u>
1-1000 mips					
Market Share	49.0%	24.5%	6.1%	20.4%	100.0%
Avg Unit Cost	\$35.55	\$34.87	\$30.68	\$19.99	
BIC Unit Cost	\$8.81	\$8.28	\$30.68	\$9.60	
1000-5000 mips					
Market Share	22.2%	25.4%	12.7%	39.7%	100.0%
Avg Unit Cost	\$15.32	\$21.50	\$11.96	\$30.48	
BIC Unit Cost	\$2.78	\$2.50	\$7.14	\$10.30	
>5000 mips					
Market Share	14.3%	30.2%	20.6%	34.9%	100.0%
Avg Unit Cost	\$3.82	\$11.13	\$7.85	\$18.18	
BIC Unit Cost	\$1.64	\$0.47	\$0.79	\$4.70	

BIC drive savings from product mix, product deployment and product pricing



optimization

BIC understand the causes of its software costs and sources for savings

	Un	<u>it Cost</u>	<u>T</u>	otal Cost
Explanation of Variance from Best	in C	lass		
Current Cost	\$	2,459	\$	12,811,390
Product Mix Variance		485		2,526,850
ISV Pricing Variance-Best in Class		165		859,650
Other ISV Pricing Variance-Best in Class		42		218,820
Product Count Variance		446		2,323,660
Redundant recommendations		(130)		(677,300
Best-in-Class	\$	1,451	\$	7,559,710

Recommendations to Correct Variances

Current Cost	\$ 2,459	\$ 12,811,390
Product Migration-ISV	277	\$ 1,443,170
Product Migration-IBM	123	\$ 640,830
Product Migration-Other	49	\$ 255,290
Development Isolation	160	\$ 833,600
DB2 Isolation	168	\$ 875,280
CA Negotation	165	\$ 859,650
Other ISV Negotiation	42	\$ 218,820
Internal Redundancy Elimination	19	\$ 98,990
Redundant recommendations	5	26,050
Best-in-Class	\$ 1,451	\$ 7,559,710

What does this fix?

Product Mix Varia	nce
Product Mix Varia	nce
Product Mix Varia	nce
Pricing Variance	
Product Count Va	riance

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Software Asset Management Best Practices involve......



optimization

Balance business needs, hardware standards and software cost reduction.



Software Asset Management practices at best in class data centers assume

ISAM software asset optimization

- 1. Effective SAM starts with the deployment
 - a. Processes are set up to track deployment & usage
 - b. Database designed to ensure optimal deployment
- 2. Technical groups set up to regularly review and migrate to lowest TCO products
- 3. Inventory management is strategic
- 4. Hardware decisions are made after extensive software cost analysis
- 5. Costs are managed by optimizing data center thru product mix and product deployment
- 6. Unit cost
 - Don't be satisfied with industry average
 - Pursue \$910 per MIP Best in Class status

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Conclusions

- Software budgets continue to increase
- Software unit costs are falling
- Software industry is consolidating
- IBM is growing its market share at the expense of ISVs
- Manage product inventory
 - Eliminate
 - Migrate
 - Negotiate
- Follow Best Practices trends to reduce overall costs



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Best Practices Case Study - SAS

Average Data Center

- Licenses 5 SAS products
- Unused functionality
- Licensed at full capacity
- Pays \$149 per MIPS
- SAS represent 3.6% of total software budget

SAS Base
SAS GRAPH
SAS ACCESS for DB2
SAS STAT
SAS CONNECT
SAS FSP
SAS ACCESS for IMS
SAS ETS
SAS AF
SAS Share
SAS Assist
SAS C Compiler
SAS QC
SAS EIT

Best in Class Data Center

- License only SAS Base + 1-2 additional SAS products
- No excess functionality
- Licensed at less than full capacity
- Pays between \$3-\$15 per MIPS
- SAS represent 0.52% of total software budget



Recommended Next Steps – Tools and Techniques



- ✓ Benchmarking
 - Utilize industry BIC software benchmarks
- ✓ Price Assurance
 - Utilize available pricing tools to ensure you are paying industry best in class rates
- ✓ Usage Analysis
 - Ensure that unused products are eliminated and compliance issues are minimized
- ✓ Deployment Analysis
 - Link product purchases to architecture and ensure that standards are being followed
- ✓ Product Standardization
 - Establish core set of products and functionalities to minimize software & labor costs and maximize client revenue
- ✓ Data Center optimization
 - Maximize software savings by designing optimal hardware and software configuration



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