A year of Challenge, Growth and Success

End to End Competent Procurement Solution

A wonder strategy to create competitive procurement advantage to your company



Prepared by: Daniel Chan, PCB Council Chairman Date: Oct, 2006

Integrated Supply Chain









Content

- ✓IBM, an on demand business solution company
- Exhibit of IBM PCB Council
- ✓Why is an end to end procurement solution needed?
- Key attributes to create an end to end competent procurement
 Solution



IBM Systems Group

IBM innovation and computing technologies provide choice

Core on demand Technologies



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IBM @server Product Family







- Affordable, Linux and NT-ready servers with mainframeinspired reliability
- Blade and rack mount solutions

iSeries

- Most flexible, high performance integrated business servers
- Capacity upgrade on demand

pSeries

- Most powerful, technologically advanced UNIX servers
- Classic RAS (reliability, availability, serviceability / scalability)

zSeries

- Enterprise servers for e-business
- 99.999 % availability (<5 min/year)
- over 30 % MIPS growth annually



Storage

- "Shark" provides over 3.6 TBytes storage
- Local storage subsystem partitioning
- Metro/Global Mirroring options

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Linux support across all platforms Interlocked with Storage and Service Offerings





Source Business Week

April 18, 2005

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...two years ago **Palmisano** was talking business with A.G. Lafley, CEO of Procter & Gamble Co. (PG),...Lafley asked Palmisano to estimate how many of P&G's 100,000 employees it truly needed....Lafley stunned him by saying that P&G might be able to get by with only a quarter of its workforce. Specialized service companies might be able to handle everything else, from human

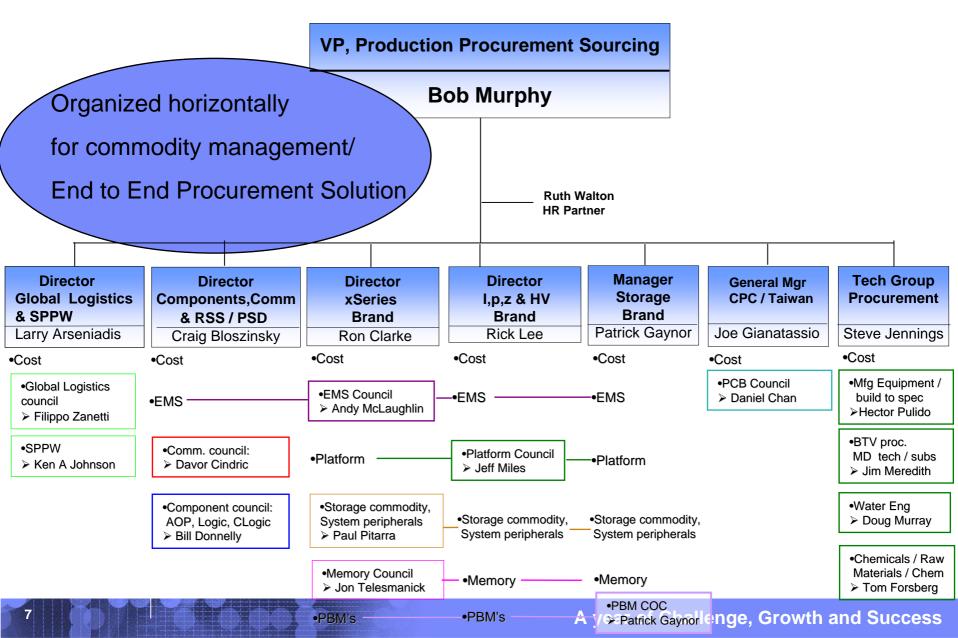
resources to customer care. tech services...For IBM's new CEO, Lafley's idea delivered a strong jolt of the future. <u>"We saw it as an industry</u> <u>shift," he recalls.</u>

Over the past two years, <u>Palmisano has built these concepts into a strategy</u> that would be laughable -- if it weren't so serious. His goal is to free IBM from the confines of the \$1.2 trillion computer industry, which is growing at just 6% a year. Instead of merely selling and servicing technology, IBM is putting to use the immense resources_it has in-house, from its software programmers to its 3,300 research scientists, <u>to help companies</u> like P&G <u>rethink, remake, and</u> <u>even run their businesses</u> -- everything from accounting and customer service to human resources and procurement. "We're giving our clients a transformational lift," says Palmisano.

...getting there will be a slog...no sure bet...

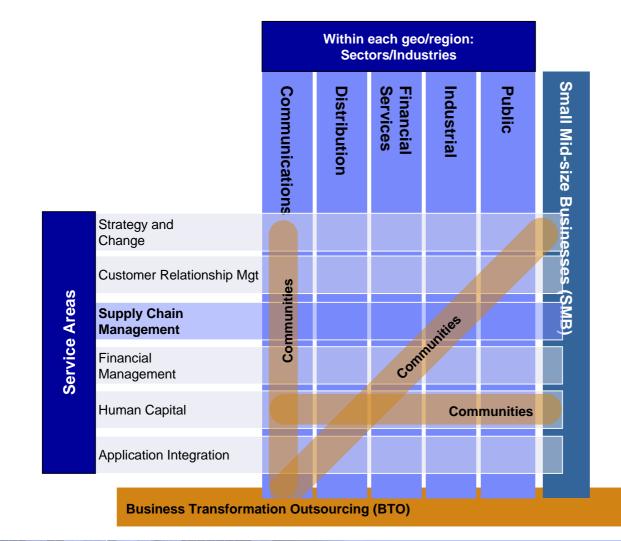
IBM

Council Responsibility by Direct Report



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SCM is the largest of six service areas in the BCS matrix



Community Examples

- SAP
- Siebel
- Oracle
- Dassault
- Business Intelligence
- Web Services
- Wireless/RFID
- On Demand Workplace
- Safety and Security
- Digital Media



Will use my managed PCB council as an example to share what I mean End to End Competent Procurement Solution

We differentiate with our competitors

- Through ISC strategy
 - Leader of end to end cost/flexibility of supply/best serviceability
- Through Technology innovation
 - Leader of technology, reliability and quality

Final goal is to become on demand premier PCB <u>solution provider</u> in global PCB Supply market



Mission Statement of IBM PCB Council

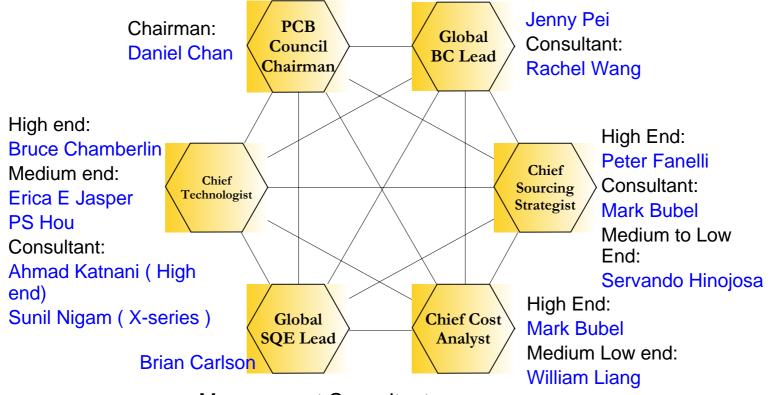
An <u>intelligence</u> based <u>PCB solution provider</u> to develop <u>competitive procurement advantage</u> to both <u>internal</u> and <u>external client</u>, their <u>today</u> and <u>future</u> challenge, with a goal to cultivate <u>mutual success</u> between IBM, the client & supplier, and target to achieve the below imperatives:

- a.Innovative PCB solution
- b.The minimum end to end cost
- c.Exceed client quality and reliability requirements
- d.Optimize flexibility of supply with min cost of liability
- e.Best global serviceability to our clients



IBM PCB Council Core Committee

Integrated Supply Chain-PP



Executive: Joseph Gianatassio

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Management Consultant:

Susan Krystek, Jim Mayerle, George Franke, Reeve Samson, Eric Kline, Mark F Hoey, Michael Wyatt, Michael Bi

PCB Council Global Process Owner, globally integrated

- 1. Environmental related stuff (PS hou)
- 2. PCMS/DCF (BC: James Su, Operation:William Walker)
- 3. SQMS for panel council/On line info of suppliers (Related PME)
- 4. Finance Risk assessment (William Liang)
- 5. Supply flexibility data base (William Liang)
- 6. SPQL : Low End (FE CM Suppliers): (Gause Hu) High end (US & European CM) : (Brian : Overall, global Lead)
- 7. Bob PMD: (Jenny Pei)
- 8. RoHS PCB: (GCM: Mark Bubel, PME:Wayne Rothschild, PS Hou)
- 9. Global fact sheet data base (Related PME)
- 10. PCB Team room administrator (William Walker)
- 11. Corporate Development Council (Wayne Rothschild)
- 12. Enterprise relationship (Rachel Wang)
- 13. Report Card (Helen Mao)
- 14. Warranty Recovery (Helen Mao)
- 15. Market price matric of medium to low end (William Liang)
- 16. VPA (Servando and Rachel)
- 17. Emerging PCB source project (Jenny Pei)
- 18. FE QTAT/Quick turn service project (James, Sunil & Rick)
- 19. Emptoris RFQ Web system (Rachel Wang)



End to end competent procurement solution, indispensable in today highly competitive commercial world....

- Win bottom-line, market share & revenue with an excellent customer satisfaction
 - Either complete or partial outsourcing solution
- Enhance efficiency of the company operation
 - Improve quality performance especially in manufacturing & operation sense
 - No line down/no system down time/no product re-call/etc.
 - Improve efficiency of operation such inventory turn, etc.
 - Normal Mfg inventory for PC: 120+ with VMI like IBM TP before
 - Strong support of technology or emerging solution development
 - Virtual R&D center, New Idea generation, etc.

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Benchmarking competitive force from global market

 Drive overall company competitiveness Vs global market competitive force, assure Marginal benefit = Marginal Cost.

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Key attributes to create successful end to end competent procurement solution

- Strong senior management support and help to push
 - CPO roles and influence in Senior management team
 - A strong hold of procurement authority
 - No by pass or at least minimize by pass
 - Procurement professional team, the final commercial case decision maker
 - Excellent career path of procurement professional
 - Not an administration, but a professional business career
 - Strong IT infra-structure

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- Integrated Supply Chain (ISC)
 - > IT driven demand and supply fulfillment process, like Dell
 - > Fulfillment Center concept

Key attributes creating successful end to end competent procurement solution

- Globally organized with best global procurement talent
 - Must be borderless, no geographic biases
 - Organic organization: matrix or networking organization
 - Strong commodity/service/etc professional knowledge and skill
 - End to end solution driven organization
 - Commodity driven organization Vs operation driven organization
- Global strategic sourcing approach: plan and execution
 - Volume and Supplier consolidation
 - Develop strategic supplier relationship
 - Market intelligence based sourcing strategy
 - Global supply market intelligence
 - Competitor move, how to buy better than competitors
 - Supplier move, how to capture the best opportunity
 - Political influence, tax, etc.

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Key attributes creating successful end to end competent procurement solution

- Supplier development

- An investment approach especially in technology sense
- Strong technical team support
- Higher development hurdle, higher return

- Good commercial process

- Open and honest, market driven quoting process
 - first class sourcing decision process
 - Strong leadership in sourcing process
- End to end cost evaluation process of quote
 - Report card appraisal process

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- Business award according to performance overall
 - > cost, quality, technology and serviceability
- Reverse engineering/cost analytical model
- A proper business control process to assure the best practice
 - Monitoring of key measurements, but don't be too many

IBM

Key attributes creating successful end to end competent procurement solution

- External procurement slution provider if possible

- Drive the best procurement solution to compete in free market
 - Marginal Cost = Marginal benefit
- An excellent business opportunity for procurement professional
- Enhance volume leverage power
- Recognition of success by Senior management easier
- Supplier quality control
 - A MUST WIN area

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- Clear specification of requirement
- Preventive, rather than fire fighting
 - Feed forward, a better approach than feedback mechanism
- A key factor of business award to drive supplier quality