

Open Source @Siennax

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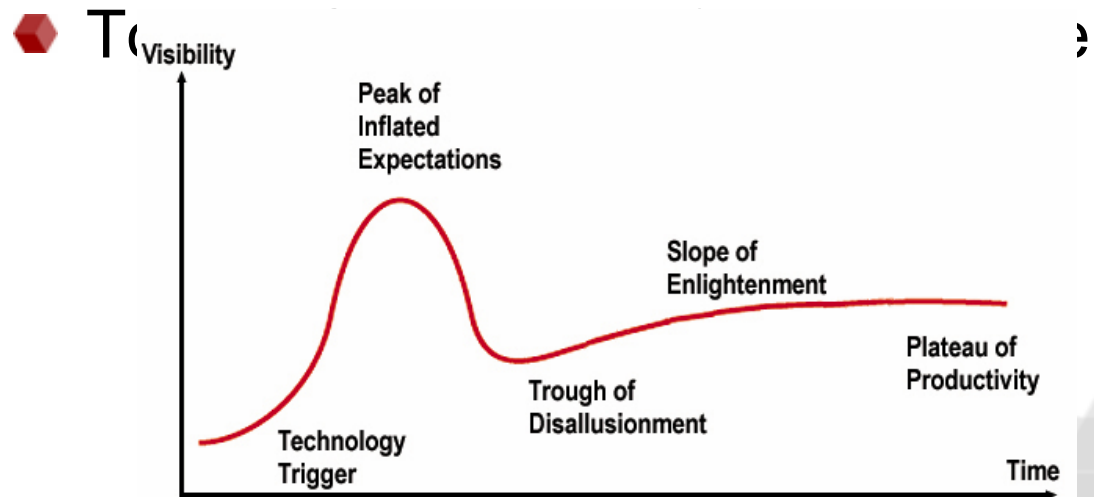
Opensource4you event 3 juni 2003



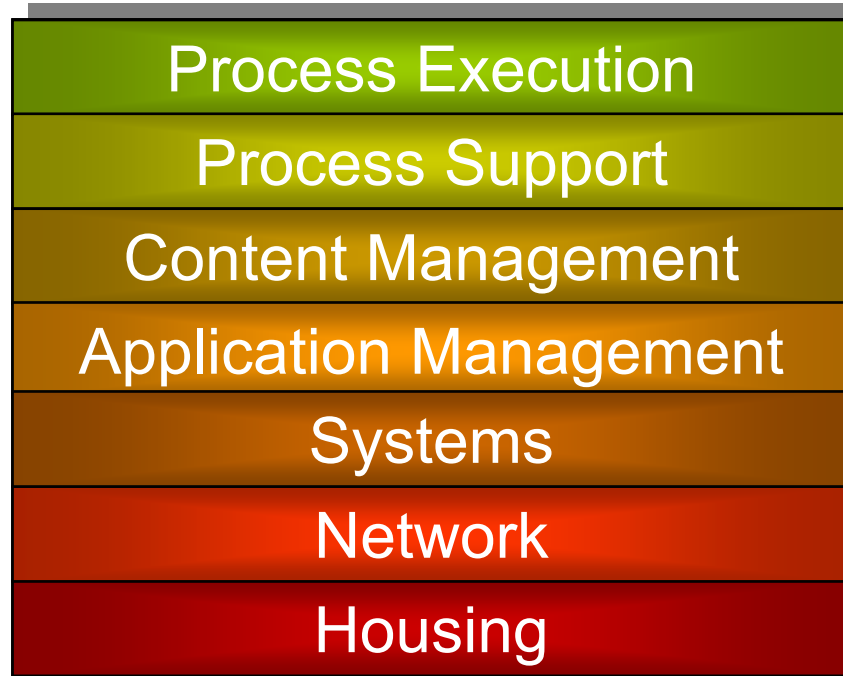


ASP – After the Hype

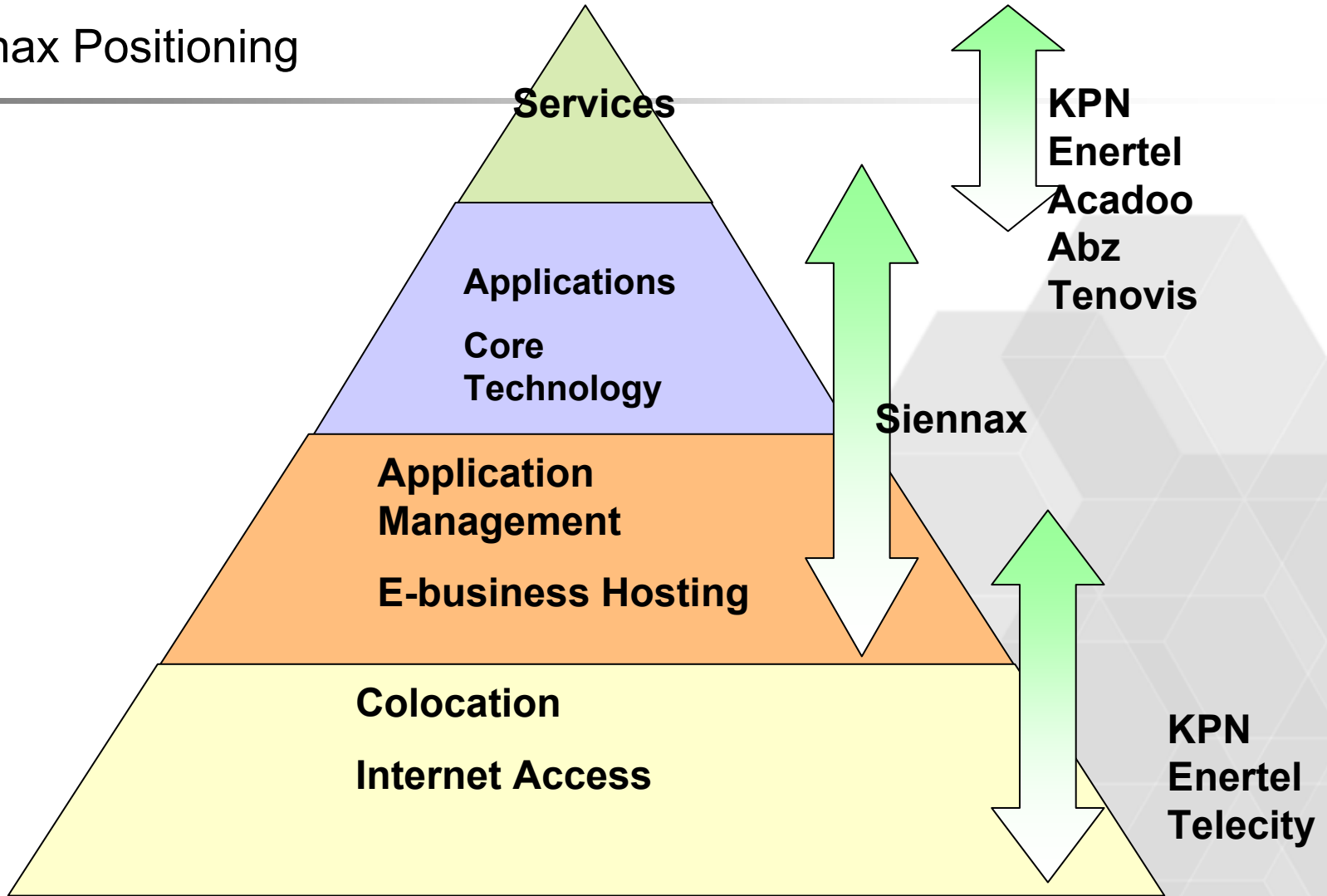
- ASP as “renting many small applications” not a viable model
- Most ASP’s out of business



The E-Business Process model



Siennax Positioning



Example customers & projects @ Siennax

- ◆ Aims
- ◆ New Matrix
- ◆ Meetingpoint
- ◆ ECH
- ◆ Notary intranet
- ◆ Freeler.nl
- ◆ Aspace.com
- ◆ AbnAmro Academy web
- ◆ E-diets



Reasons to outsource E-whatever

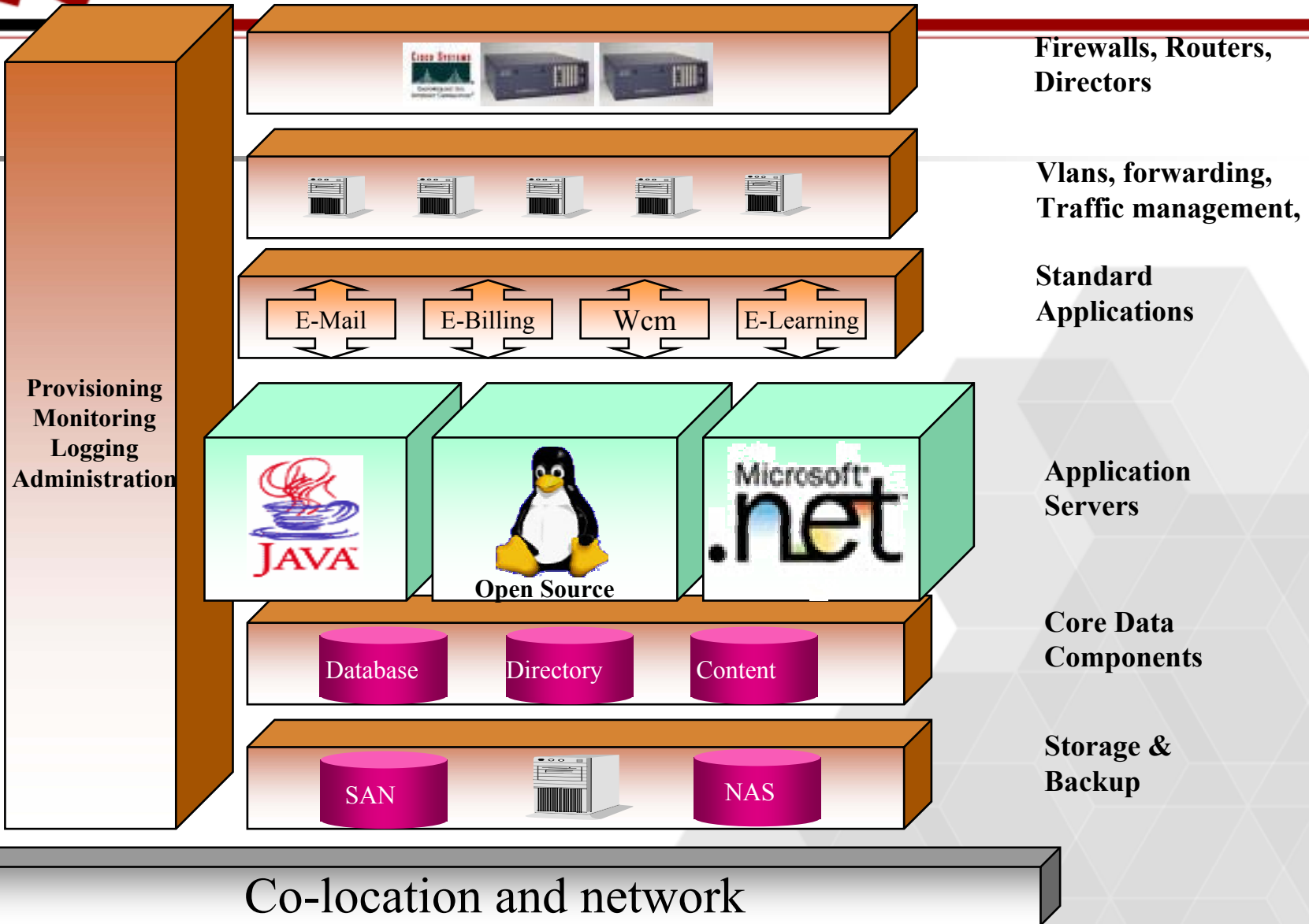
- ◆ Cost & ROI
- ◆ Ability to execute SLA
- ◆ Complexity of ITIL Processes
- ◆ Providing Secure Internet Access
- ◆ Security, Privacy, Confidentiality processes
- ◆ Security technology
- ◆ Managing Capacity & performance
- ◆ Keeping Expertise up to date
- ◆ Keeping up with latest in open source
- ◆ Providing integration components
- ◆ Reduce time-to-market

So - Back to the old days?

- ◆ Centralized processing model
- ◆ Pay per use
- ◆ Economies-of-scale
- ◆ Standardization
- ◆ Consolidation: Capacity sharing & Mainframe thinking

ASP brings in addition:

- ◆ Standard technologies
- ◆ Standard service levels & processes
- ◆ Back-office for automated provisioning and service delivery



Provisioning
Monitoring
Logging
Administration

Firewalls, Routers,
Directors

Vlans, forwarding,
Traffic management,

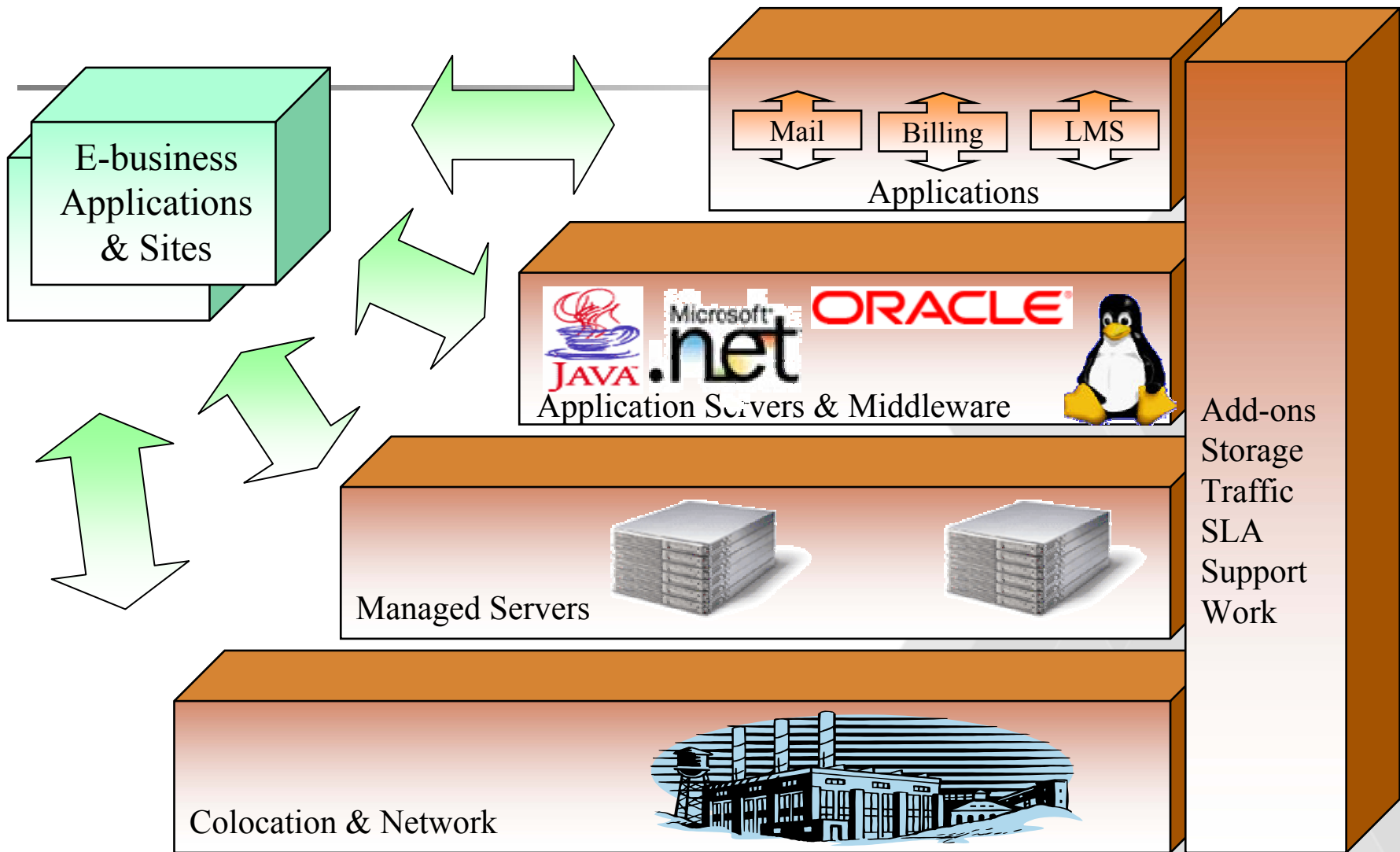
Standard
Applications

Application
Servers

Core Data
Components

Storage &
Backup

Co-location and network



Siennax ASP Operations

- ◆ ITIL as guiding proces model
- ◆ Standardized SLA
- ◆ Capacity management for ASP products
- ◆ “Trusted Services” certification by Deloitte & Touche
- ◆ Change management & deployment model for customer applications
- ◆ Performance guarantees with measurement & tuning

Open Source & Siennax

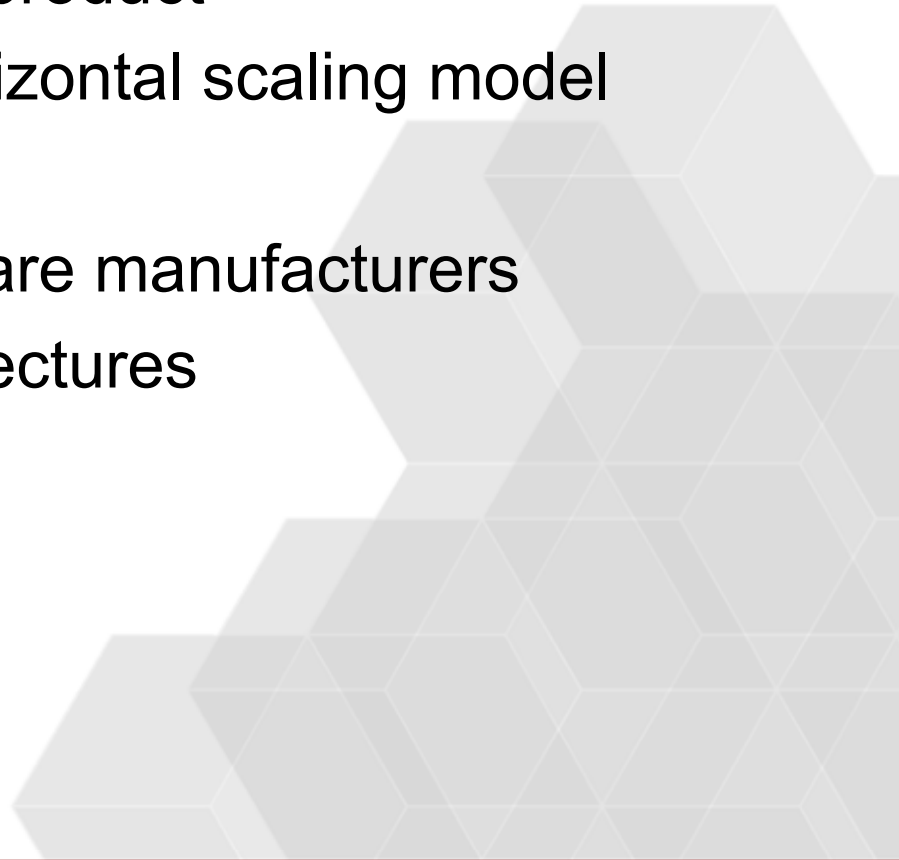
- ◆ Substantial number of servers run Redhat Linux
- ◆ Linux virtual server
- ◆ Qmail is core mail server
 - ◆ Siennax extensions
 - ◆ Spamassassin, Fetchmail, Procmail
- ◆ OpenLDAP is core directory server
- ◆ Apache SSL / client certificate authentication module
- ◆ PHP, Python, Perl, Mysql widely utilized
- ◆ Big Brother, TKined, Keystone and others for ITIL

Advantages

- ◆ Cost
- ◆ Quality
- ◆ Stability
- ◆ Security
- ◆ Common Knowledge
- ◆ Reducing Time-to-market
- ◆ Reduce maintenance
- ◆ Rapid problem fixes when compared to commercial software
- ◆ Some products not even possible without OS

Case: Oracle 9i RAC on Linux

- ◆ 9i RAC is Oracle flagship product
- ◆ Strong commitment to horizontal scaling model
- ◆ Proven technology
- ◆ Support by leading hardware manufacturers
- ◆ Certified on several architectures



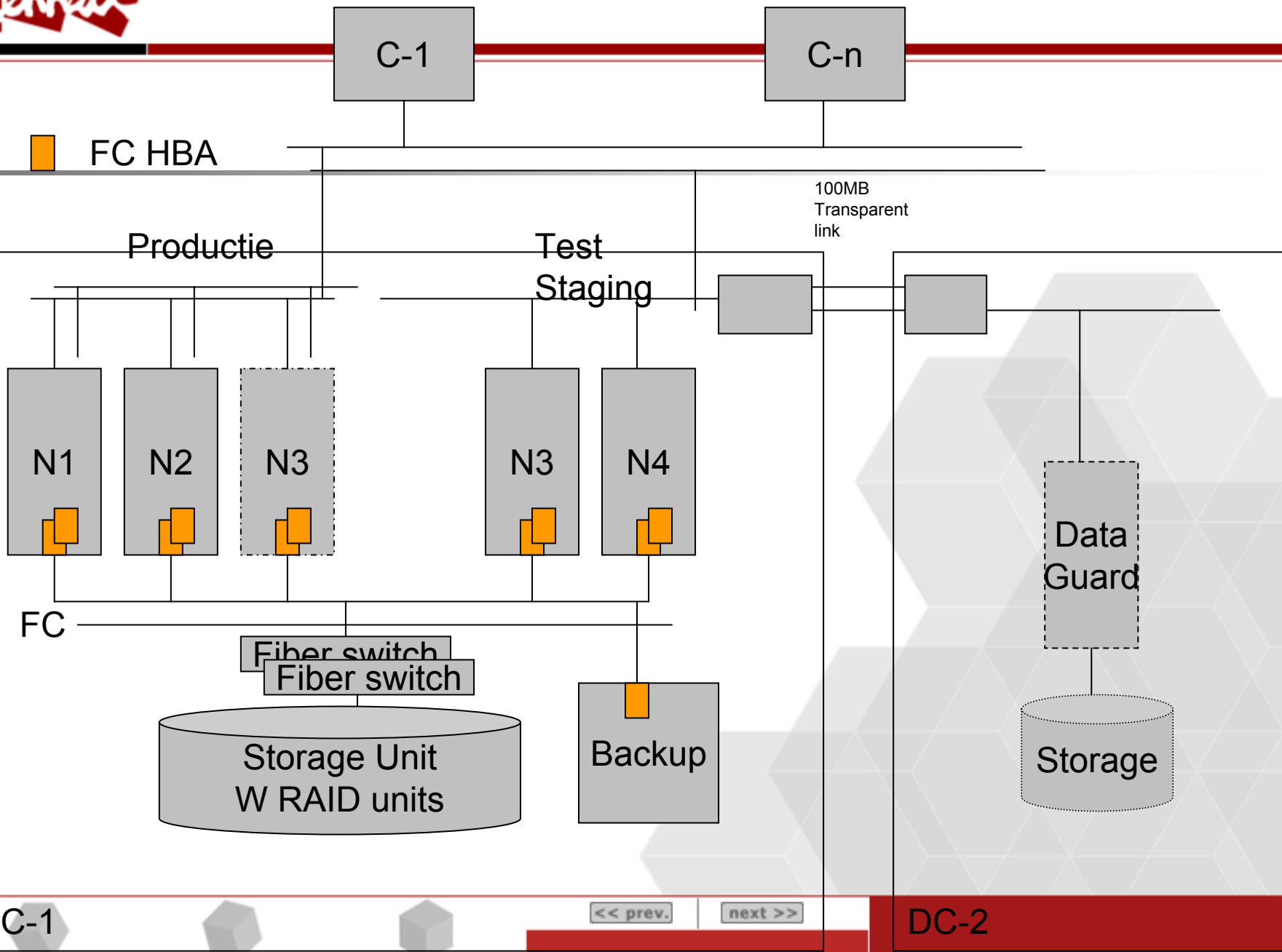
Siennax Oracle 9i requirements

- ◆ Unpredictability of next capacity increase
 - ◆ I/O is most often bottleneck - not CPU
- ◆ Increasing SLA requirements by customers
 - ◆ No single point of failure in entire chain
- ◆ Possibility to both share & dedicate
 - ◆ Have multiple environments on multiple servers
- ◆ Usable for multiple services
- ◆ Incremental hardware & software investments need to be low
 - ◆ No write-offs possible
 - ◆ Match with pay-per-use model
- ◆ Run on (standard) Intel hardware

Siennax implementation of 9i RAC

- ◆ Oracle 9i RAC on Redhat Linux advanced server
- ◆ 2 separate clusters for production and staging
- ◆ No single point of failure
- ◆ FC SAN in full mesh
- ◆ Fallback location with Data Guard





Advantages

- ◆ Extensible in relatively small steps
- ◆ Full support from Oracle, Red Hat and hardware vendor
- ◆ Initial investment approx 270K Vs 400K on comparable H/w
- ◆ Incremental capacity step approx 40K Vs at least 100K
- ◆ Highly standardized
- ◆ Easy to switch node & OS vendors



Trade-offs & Issues for Open Source

- ◆ People & dependency
- ◆ Moral obligation to give & take
- ◆ Intellectual property and solutions
- ◆ Getting your fixes into the world
- ◆ Uncertainty towards legal situation
- ◆ Sometimes difficult to sell and justify
- ◆ Explaining the bazaar to the cathedral people



Future

- ◆ OpenSource will continue to be a dominant factor in the IT business for the next 10 years
- ◆ There is a place for both OpenSource and commercial software
 - ◆ .NET, Java and OS leading platforms
- ◆ OS use will continue to grow, certainly at Siennax
 - ◆ Deployment, Grid and Virtualization technology
- ◆ Industry grip & usage by non-contributors will have negative impact
 - ◆ Purity of model motivation of contributors
- ◆ Legal issues may become real threats

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