

- Allow me to introduce myself, I am Walt Keyser and I am the HP's Engineering Program Manager for the HP-SCO alliance, today's topic is Dosimetry's high availability business requirements
- Dosimetry is a leader in providing radiation services. Its clients include:
 - Nuclear power plants, hospitals, medical facilities, homeland security, and other organizations
- Sam Elshiwick, Dosimetry will provide a high level overview of the business need and how SCO & HP were able to assist
 - Ladies and gentlemen, Sam Elshiwick



- Sam Elshiwick, Director Special Projects for Dosimetry is responsible for the selection, planning & implementation of Dosimetry UnixWare Reliant High Availability solution on HP ProLiant server & storage
 - Ladies and gentlemen, Sam Elshiwick

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Global Dosimetry Solutions, Inc (GDS) provides service to more than half a million people. Additionally, the majority of U.S. nuclear power plants that outsource their dosimetry services use GDS. Globally, GDS provides the highest quality radiation monitoring services to a wide range of customers including hospitals, medical and dental offices, veterinary clinics, university and national laboratories, nuclear power plants, homeland security organizations, and other specialized industries.



Global Dosimetry
Solutions

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GDS offers a wide array of product choices for measuring ionizing radiation.

In addition, GDS supplies real time electronic dosimeters for immediate dose and dose rate measurement. Wallet cards, for use by emergency or Haz-Mat crews, are also available and provide a means of measuring radiation in situations when normal radiation dosimeters are not present.

GDS products are currently being utilized wherever radiation usage is prevalent - from private practitioner medical offices, hospitals and universities to larger nuclear facilities. We can help you determine the right products for your business and provide accurate measurement reports to ensure the safety of your employees.



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- The Need
 - GDS requires 7/24 operations
 - Lab operations (6,000 – 10,000 Badge readings per day)
 - Manufacturing Department work schedule
 - World Wide presence (Customers & offices)
 - Customer demands for increased web account maintenance and reporting
 - GDS was currently running Unixware v 7.1.1 with NSC (Non Stop Clustering). Fail over issues, third party support, and end of life cycle for NSC created the need to search for other solutions.
- Research Requirements / Criteria
 - Critical Path software dependent on Unix Platform
 - Phase I Design for High Availability (Phase II Business Continuity)
 - Increase performance and capacity
 - Faster reporting cycle
 - Additional capacity for growth and testing environments
 - Current active accounts – 30,000 (from roughly 16,000 2 years ago)
 - Reliable Equipment with high level of up time
 - No Down Time during Implementation and Testing
 - Consistent and dependable support

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Microsoft Project - migration/14_060706_4.mpp

ID	Task Name	Duration	Start	Finish	% Complete	Resource Name
1	Setup	10 days?	Mon 5/22/06	Fri 6/2/06	100%	
2	Servers	1 day?	Mon 5/22/06	Mon 5/22/06	100%	DRP
3	SAN	1 day?	Mon 5/22/06	Mon 5/22/06	100%	DRP
4	Testing equipment	3 days	Tue 5/23/06	Thu 5/25/06	100%	DRP
5	Install windows 2003 and check SAN identification	5 days?	Fri 5/26/06	Thu 6/1/06	100%	DRP
6	Mount Equipment and test connections	2 days?	Thu 6/1/06	Fri 6/2/06	100%	DRP/GDS
7	Unixware OS Installation	1 day?	Mon 6/5/06	Mon 6/5/06	96%	SCO
8	No digiboard setup	1 day?	Mon 6/5/06	Mon 6/5/06	100%	SCO
9	Driver for devices	1 day?	Mon 6/5/06	Mon 6/5/06	100%	SCO
10	Licensing and user count. 85 on node1 and 25 on node 2. At failure, manually enter lic from node 1	1 day?	Mon 6/5/06	Mon 6/5/06	100%	
11	Partition setup SAN/reports 286GB Free	1 day?	Mon 6/5/06	Mon 6/5/06	100%	SCO
12	Check for system printers / Setup active printers	1 day?	Mon 6/5/06	Mon 6/5/06	100%	SCO
13	Samba setup for existing file shares, setup for virtual IP of .31	1 day?	Mon 6/5/06	Mon 6/5/06	100%	SCO
14	Install line printer drivers? Not needed	1 day?	Mon 6/5/06	Mon 6/5/06	100%	SCO
15	Reliant HA Installation	1 day?	Mon 6/5/06	Mon 6/5/06	85%	SCO
16	Network heartbeat	1 day?	Mon 6/5/06	Mon 6/5/06	100%	SCO
17	Null Modem Cable, not working correctly. Will purchase net cards	1 day?	Mon 6/5/06	Mon 6/5/06	40%	
18	UODK Dev. System license	1 day?	Mon 6/5/06	Mon 6/5/06	100%	
19	Uhibasic Daemon/process?	1 day?	Mon 6/5/06	Mon 6/5/06	100%	SCO
20	Users Import (All)	1 day?	Mon 6/5/06	Mon 6/5/06	100%	SCO
21	Internal SysA, SysB - 192.168.168.1, 192.168.168.2	1 day?	Mon 6/5/06	Mon 6/5/06	100%	
22	Unixware config settings. Check current cluster for settings	1 day?	Mon 6/5/06	Mon 6/5/06	100%	SCO
23	Data Migration	1 day?	Mon 6/5/06	Mon 6/5/06	100%	SCO
24	Connect Ultrium960 for restore	1 day?	Mon 6/5/06	Mon 6/5/06	100%	GDS
25	Copy Data files	1 day?	Mon 6/5/06	Mon 6/5/06	100%	SCO
26	Copy Uhibasic & DL4 Application	1 day?	Mon 6/5/06	Mon 6/5/06	100%	SCO
27	Uhibasic & DL4 license change to software. Temp license until Oct 2006	1 day?	Mon 6/5/06	Mon 6/5/06	100%	SCO/DC
28	Node 1 license temp: 5550FB57	1 day?	Mon 6/5/06	Mon 6/5/06	100%	
29	Node 1 license perm: UE32LANQsK225K2oRCN6J21FMT9NJ7b4VVKUQsF	1 day?	Mon 6/5/06	Mon 6/5/06	100%	
30	Node 2 Temp: 5590F4AB	1 day?	Mon 6/5/06	Mon 6/5/06	100%	
31	Node 2 Perm: JAA2AMB25THB<CV5FosC2QUU017K9EC664EJG	1 day?	Mon 6/5/06	Mon 6/5/06	100%	

Project: migration
Date: Mon 7/31/06

Task: [Solid Blue Bar] Milestone: [Diamond] External Tasks: [Grey Bar]
 Split: [Dotted Line] Summary: [Arrow] External Milestone: [Diamond with Arrow]
 Progress: [Thick Solid Line] Project Summary: [Arrow] Deadline: [Green Arrow]

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- Solution Selection / Planning
 - HP chosen for equipment (Dell, IBM among researched). For best performance, reliability and scalability. All key components were HP. HP DL 580 G3, MSA 1500 SAN, HP Storage Works 4/8 Fiber Switch, Ultrium Tape device, and 100/1000 Network Cards for secondary failover
 - Unixware v7.1.4 selected for the operating system platform
 - Reliant HA selected for fail over / High Availability
 - SCO professional services selected
 - Availability of resources
 - Speed of implementation
 - Ability to resolve issues quickly



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Category (Max. score of 5)	Weight	Dell Score	IBM Score	HP Score
Accessibility	5	3	4	5
Performance	10	3.5	4.5	4
Technology Enhancement/Implementation	10	4	5	5
Reliability/Availability	20	2.5	3.5	5
Service Experience	8	2	n/a *	4
Service Response	20	3	n/a *	4.5
Cost	15	5	4	4
System Management	5	3	4	4.5
Previous Experience	7	2	3.5	4
* IBM not setup in live environment	100	27.5	28.5	40



- The Team

- GDS - VP of Technology Malcolm Smith,
- GDS - Sam Elshiwick Special Projects Director (DRP Consulting, Inc. Consultant)
- SCO Professional Services – Installation & Maintenance





- Implementation

- Scheduled for 10 business days, ahead of scheduled by 4 business days
- Preliminary tests show performance increase:
 - Reports 37%
 - Dose Calculations 62%
- Preliminary Reliant HA Fail over testing was under 30 seconds
- Currently in testing phase of project with go live expected date in October

