

Appendix C: Costs of ORBIS2 Production Hardware Solutions

Hardware Solution One: Base Cost for <i>Minimal</i> Disaster Recovery and Redundant Services					
Server	Minimal Configuration		Storage	Total	TOTAL
	Cpu/Memory	Total			
ORACLE	8x16	\$ 76,796.00	ET3 18@36	\$ 52,142.00	\$ 128,938.00
Application	4x8	\$ 39,996.00	ET3 18@36	\$ 52,142.00	\$ 92,138.00
T/D/Upgrade/DR/Report Writer	4x8	\$ 39,996.00	T3 9@36	\$ 23,932.00	\$ 63,928.00
Web Server 280R	2x4	\$ 25,596.00			\$ 25,596.00
Total Server Cost					\$ 310,600.00
Peripherals	Units	Cost			
PCI FC NIC Storage	3	\$ 2,573.00			\$ 7,719.00
PCI 10/100	4	\$ 430.90			\$ 1,723.60
PCI Gigabit	3	\$ 1,298.90			\$ 3,896.70
Total Peripherals					\$ 13,339.30
Mounting Racks					
X9628A Rack Mount kit for server	2	\$ 396.00			\$ 792.00
X9667A per ET3 Rack mount kit	2	\$ 217.00			\$ 434.00
SG-XRAY030A 72 Stor Cabinet	2	\$ 4,650.00			\$ 9,300.00
Total Racks					\$ 10,526.00
Maintenance*					\$ 58,309.07
Total Hardware Configuration Cost					\$ 334,465.30
Software**	Cost of LPS	NOL			
Sun NDR,II	\$ 1,980.00	1 pkg of 6			\$ 1,980.00
Veritas File System	\$ 800.00	2			\$ 1,600.00
Veritas Volume Manager	\$ 599.00	2			\$ 1,198.00
Total Software					\$ 4,778.00
Network					
Infrastructure					\$ 15,000.00
Fiber rental**					\$ 2,500.00
Tape***					
Tape Subsystem					\$ 150,000.00
Tape Maintenance*					\$ 27,000.00
Total Configuration Cost					\$ 499,465.30
Config. Contingency (10%)					\$ 49,946.53
Total Config w/ Contingency					\$ 549,411.83
Total Annual Cost					\$ 92,587.07
Annual Contingency (10%)					\$ 9,258.71
Total Annual w/ Contingency					\$ 101,845.78
* Annual charges calculated at 18% hardware costs. Start after 1 year. ** Annual Charges *** Estimated Costs					
Note: These charges do not reflect financing costs. They also have not been negotiated, that is, they are not best and final.					

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Hardware Solution Three: Cost for Full Disaster Recovery and Redundant Services					
ORACLE Primary	8x16	\$ 76,796.00	ET3 18@36	\$ 52,142.00	\$ 128,938.00
ORACLE Secondary	4x8	\$ 39,996.00	T3 9@36	\$ 23,932.00	\$ 63,928.00
Application Primary	4x8	\$ 39,996.00	ET3 18@36	\$ 52,142.00	\$ 92,138.00
Application Secondary	4x8	\$ 39,996.00	T3 9@36	\$ 23,932.00	\$ 63,928.00
Web Server 280R	2X4	\$ 25,596.00	Internal		\$ 25,596.00
Web Srv Secon/Jmp St 280R	2x4	\$ 25,596.00	Internal		\$ 25,596.00
Dev Server 280R	2x4	\$ 25,596.00	A1000	\$ 11,995.00	\$ 37,591.00
Test and Report Writer 280R	2x4	\$ 25,596.00	A1000	\$ 11,995.00	\$ 37,591.00
Total Server Cost					\$ 475,306.00
Peripherals	Units	Cost			
PCI FC NIC Storage	4	\$ 2,573.00			\$ 10,292.00
PCI 10/100	8	\$ 430.90			\$ 3,447.20
PCI Gigabit	7	\$ 1,298.90			\$ 9,092.30
Total Peripherals					\$ 22,831.50
Mounting Racks					
X9628A Rack Mount kit for server	5	\$ 396.00			\$ 1,980.00
X9667A per ET3 Rack mount kit	5	\$ 217.00			\$ 1,085.00
SG-XRAY030A 72 Stor Cabinet	5	\$ 4,650.00			\$ 23,250.00
Total Racks					\$ 26,315.00
Maintenance*					\$ 89,664.75
Total Hardware Configuration Cost					\$ 524,452.50
Software**					
Sun NDR,II	\$ 1,980.00	1 pkg of 6			\$ 1,980.00
Veritas File System	\$ 800.00	4			\$ 3,200.00
Veritas Volume Manager	\$ 599.00	4			\$ 2,396.00
Total Software					\$ 7,576.00
Network					
Infrastructure					\$ 15,000.00
Fiber rental**					\$ 2,500.00
Tape***					
Tape Subsystem					\$ 150,000.00
Tape Maintenance*					\$ 27,000.00
Total Configuration Cost					\$ 689,452.50
Config. Contingency (10%)					\$ 68,945.25
Total Config w/ Contingency					\$ 758,397.75
Total Annual Costs					\$ 126,740.75
Annual Contingency (10%)					\$ 12,674.08
Total Annual w/ Contingency					\$ 139,414.83
* Annual charges calculated at 18% hardware costs. Start after 1 year. ** Annual Charges *** Estimated Costs					
Note: These charges do not reflect financing costs. They also have not been negotiated, that is, they are not best and final.					

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Hardware Solution Two: Cost for <i>Substantial</i> Disaster Recovery and Redundant Services					
ORACLE Primary	8x16	\$ 76,796.00	ET3 18@36	\$ 52,142.00	\$ 128,938.00
ORACLE Secondary/Tst-Rw	4x8	\$ 39,996.00	T3 9@36	\$ 25,596.00	\$ 65,592.00
Application Primary	4x8	\$ 39,996.00	ET3 18@36	\$ 52,142.00	\$ 92,138.00
Application Secondary	4x8	\$ 39,996.00	T3 9@36	\$ 25,596.00	\$ 65,592.00
Primary Web Server 280R	2x4	\$ 25,596.00	internal		\$ 25,596.00
Sec Web Srv/Jmp St 280R	2x4	\$ 25,596.00	internal		\$ 25,596.00
Dev Server 280R	2x4	\$ 25,595.00	A1000	\$ 11,995.00	\$ 37,590.00
Total Server Cost					\$ 441,042.00
Peripherals	Units	Cost			
PCI FC NIC Storage	4	\$ 2,573.00			\$ 10,292.00
PCI 10/100	8	\$ 430.90			\$ 3,447.20
PCI Gigabit	6	\$ 1,298.90			\$ 7,793.40
Total Peripherals					\$ 21,532.60
Mounting Racks					
X9628A Rack Mount kit for server	4	\$ 396.00			\$ 1,584.00
X9667A per ET3 Rack mount kit	4	\$ 217.00			\$ 868.00
SG-XRAY030A 72 Stor Cabinet	4	\$ 4,650.00			\$ 18,600.00
Total Racks					\$ 21,052.00
Maintenance*					\$ 83,263.43
Total Hardware Configuration Cost					\$ 483,626.60
Software**					
Sun NDR,II	\$ 1,980.00	1 pkg of 6			\$ 1,980.00
Veritas File System	\$ 800.00	4			\$ 3,200.00
Veritas Volume Manager	\$ 599.00	4			\$ 2,396.00
Total Software					\$ 7,576.00
Network					
Infrastructure					\$ 15,000.00
Fiber rental**					\$ 2,500.00
Tape***					
Tape Subsystem					\$ 150,000.00
Tape Maintenance*					\$ 27,000.00
Total Configuration Cost					\$ 648,626.60
Config. Contingency (10%)					\$ 64,862.66
Total Config w/ Contingency					\$ 713,489.26
Total Annual Costs					\$ 120,339.43
Annual Contingency (10%)					\$ 12,033.94
Total Annual w/ Contingency					\$ 132,373.37
* Annual charges calculated at 18% hardware costs. Start after 1 year. ** Annual Charges *** Estimated Costs					
Note: These charges do not reflect financing costs. They also have not been negotiated, that is, they are not best and final.					