

Calculated rates of MMSD data growth for Disaster Recovery & Archive planning

 = only needed for DR

data type:	Def. 04 vol.: GB	Monthly DB Transaction Log Volume	data storage requirements				estimated annual growth rate	1: Dec. 2005		2: Dec. 2006		3: Dec. 2007		4: Dec. 2008		5: Dec. 09		6: Dec. 2010		7: Dec. 11	
			Disaster Recovery	1 yr storage	7 yr storage			Current yr DR Footprint	Total Archive Media Footprint	Current yr DR Footprint	Total Archive Media Footprint	Current yr DR Footprint	Total Archive Media Footprint	Current yr DR Footprint	Total Archive Media Footprint	Current yr DR Footprint	Total Archive Media Footprint	Current yr DR Footprint	Total Archive Media Footprint		
staff GW email PO servers	88		x			35%	119		160		217		292		395		533		719		
staff GW Archive servers	730			x		35%	986	730	1,330	1,716	1,796	3,046	2,425	4,842	3,273	7,267	4,419	10,540	5,966	14,959	
business & financial data	48		x		x	10%	53	48	58	101	64	159	70	223	77	293	85	370	94	455	
official student records	44		x		x	10%	48	44	53	92	59	146	64	204	71	269	78	339	86	417	
EPO logs	5		x		x	25%	6	5	8	11	10	19	12	29	15	41	19	56	24	75	
Firewall logs	5		x		x	40%	7	5	10	12	14	22	19	36	27	55	38	82	53	119	
server OS & applications data	1.37		x			20%	2		2		2		3		3		4		5		
Transient student coursework data	448		x		x	30%	582		757		984		1,280		1,663		2,162		2,811		
Novell Files	899		x		x	15%	1,034	899	1,189	1,933	1,367	3,122	4,489	6,061	8,000	10,661	14,122	18,683	24,344	32,005	
TSM Index database	80		x			30%	104		135		176		228		297		386		502		
est. (check)	2,348						2,941	1,731	3,703	3,865	4,688	6,513	9,966	13,822	18,630	25,486	34,303	45,610	60,917	81,224	

Data Source	Y1	Y2	Y3	Y4	Y5	Y6	Y7
staff GW email PO servers	119	160	217	292	395	533	719
staff GW Archive servers	986	1,330	1,796	2,425	3,273	4,419	5,966
business & financial data	53	58	64	70	77	85	94
official student records	48	53	59	64	71	78	86
EPO logs	6	8	10	12	15	19	24
Firewall logs	7	10	14	19	27	38	53
server OS & applications data	2	2	2	3	3	4	5
Transient student coursework data	582	757	984	1,280	1,663	2,162	2,811
Novell Files	1,034	1,189	1,367	1,572	1,808	2,079	2,391
TSM Index files	104	135	176	228	297	386	502
Total Backups	2,941	3,703	4,688	5,966	7,630	9,803	12,650

Data Source	Y1	Y2	Y3	Y4	Y5	Y6	Y7
GW Archive Archive	730	1,716	3,046	4,842	7,267	10,540	14,959
Bus & Fin Archive	48	101	159	223	293	370	455
Student Records Archive	44	92	146	204	269	339	417
EPO logs	5	11	19	29	41	56	75
Firewall logs	5	12	22	36	55	82	119
Novell Files	899	1,933	3,122	4,489	6,061	7,870	9,949
Total Archives	1,731	3,865	6,513	9,822	13,986	19,257	25,976

Tape Quantity Projections							
Tape Size (GB compressed)	400						
Overhead %	10%						
Cost per Tape	\$100						
Backup Tapes	8	10	13	17	21	27	35
Offsite Backup Tapes	8	10	13	17	21	27	35
Archive Tapes	5	11	18	27	39	53	72
Offsite Archive Tapes	5	11	18	27	39	53	72
Total Tapes	26	42	62	88	120	161	215

in process of reviewing tape count projections

Observations & Assumptions:

- each yr's DR vol. (as of Dec. each yr.) reflects that year's live data, independent of prior data, even though data such as on Novell servers is essentially cumulative; GW PO data is also cumulative except that which is "trashed" by users & after 30 days is removed from POs
- each yr's Archive vol. reflects the Archive from the previous yr + the total live data from the previous yr
- on 15Mar.05, Bill Brey det. that GWArchive data represented 6,497,409 records in the TSM index & is growing @ approx. 100 K records/day



