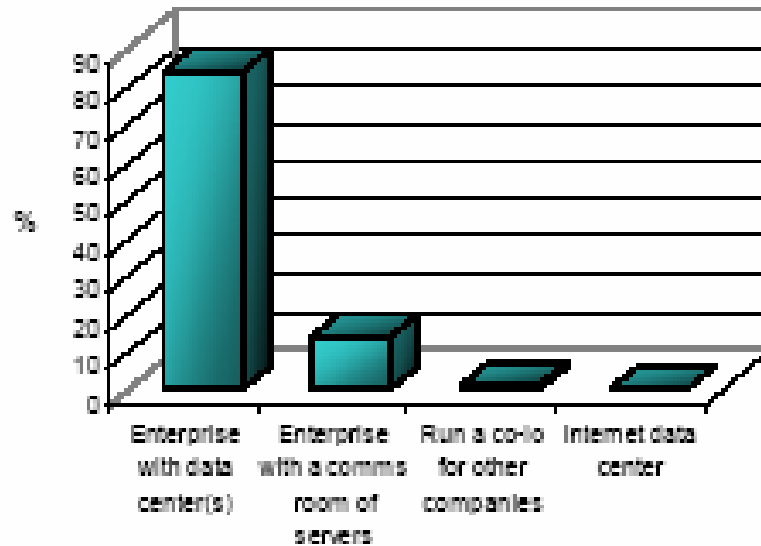# U.S. Data Center Structured Cabling Study

(extracts relating to OF deployment)

January 2008
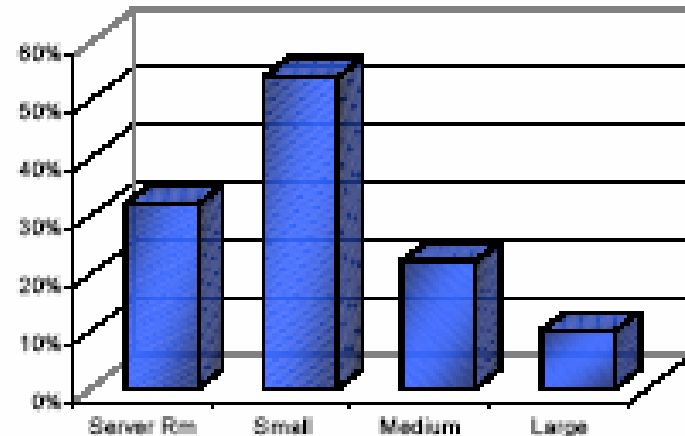
BSRIA

Type of Data Center of Respondents and Data Center Sizes As Used In the Survey

|	
Enterprise with data center(s)	84%
Enterprise with a comms room of serve	14%
Run a co-lo for other companies	1%
Internet data center	0%
No data center, but specify co-lo cabling	0%

Sizes used:

- Server room: 5 – 50 servers
- Small: 51 – 500 servers
- Medium: 501 – 2,000 servers
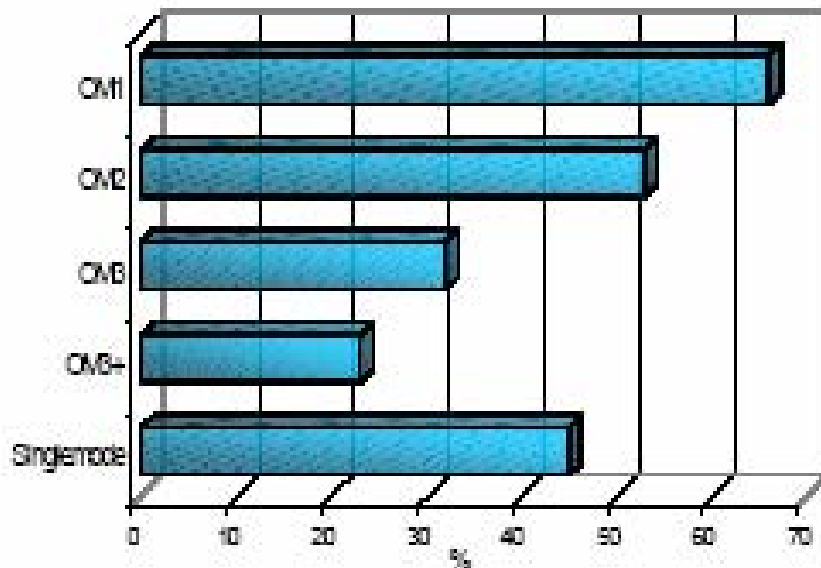- Large: Over 2,000 servers

No. Respondents 250

Number of Data Center Locations per Respondent

1 data center
13%

>5 data centers
33%

2 data centers
24%

5 data centers
5%

4 data centers
6%
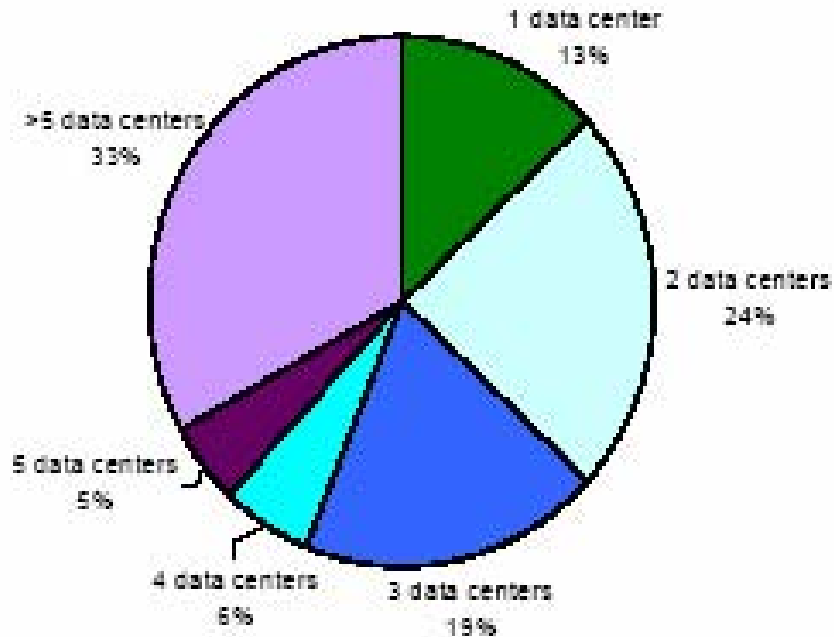
3 data centers
19%

No. data centers	Server Rm	Small	Medium	Large
1	25%	13%	2%	0%
2	32%	28%	13%	4%
3	14%	27%	15%	13%
4	4%	8%	9%	4%
5	5%	4%	5%	8%
> 5	20%	20%	56%	71%
	100%	100%	100%	100%
250 respondents	79	93	54	24

BSRIA

The Types of Fiber Cabling Currently in Use in the Data Center

- Of respondents using fiber, 60% of Server room and Small data centers and 80% of Medium & Large data centers had no OM1

- Just under 50% of Small data centers are using OM2, but this increases to close to 70% and 80% in Medium and Large data centers

- Of the one third who have OM3, less than 30% had any in Small data centers, less than 50% in Medium, but over 60% have it in Large data centers

- As expected, just more than half of the OM3+ and singlemode is found in the Large data centers

- Singlemode fiber is found in several layers of the data center, as shown in following slides

- OM3 has a relatively slow take-up, although it is a comparable percent to that currently used in the LAN in the U.S.

No. Respondents 239

For comparison – for the U.S. -
Multimode in the LAN 2007 forecasted:

OM1	36%
OM2	35%
OM3	29%

	% Resps	Means
OM1	66%	39%
OM2	53%	23%
OM3	32%	13%
OM3+	23%	6%
Singlemode	45%	19%
	219%	100%

Current Fiber Cabling Type by Data Center Size
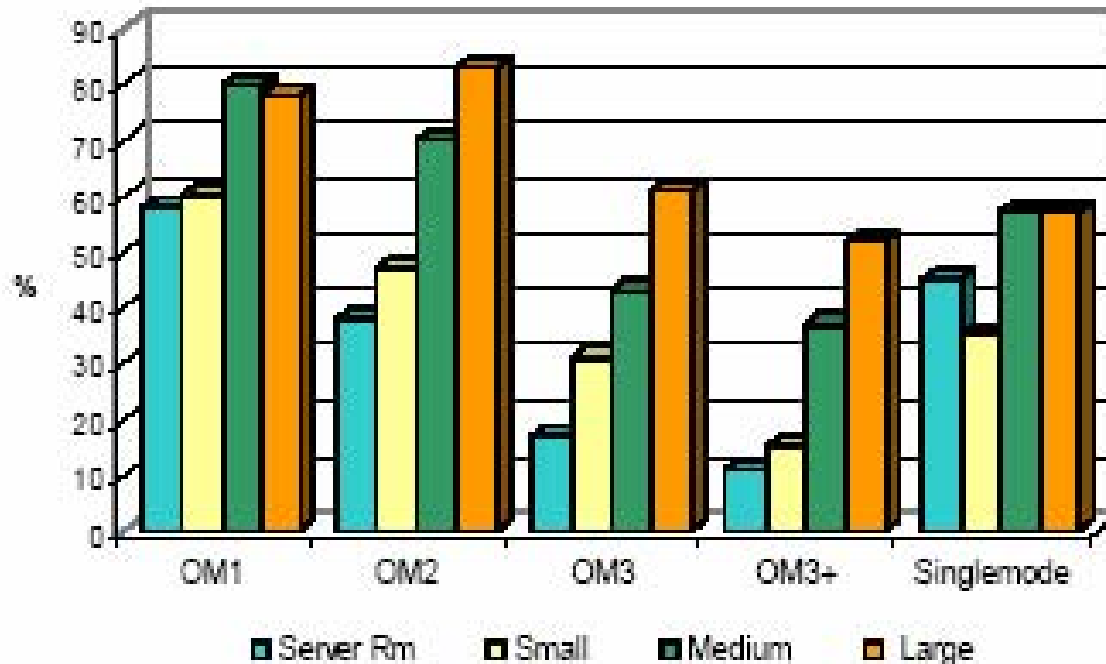
	Server Rm	Small	Medium	Large	Average
OM1	58%	60%	80%	78%	68%
OM2	38%	47%	70%	83%	53%
OM3	17%	31%	43%	61%	32%
OM3+	11%	15%	37%	52%	23%
Singlemode	45%	35%	57%	57%	45%
	169%	188%	287%	331%	219%

No. Respondents 239