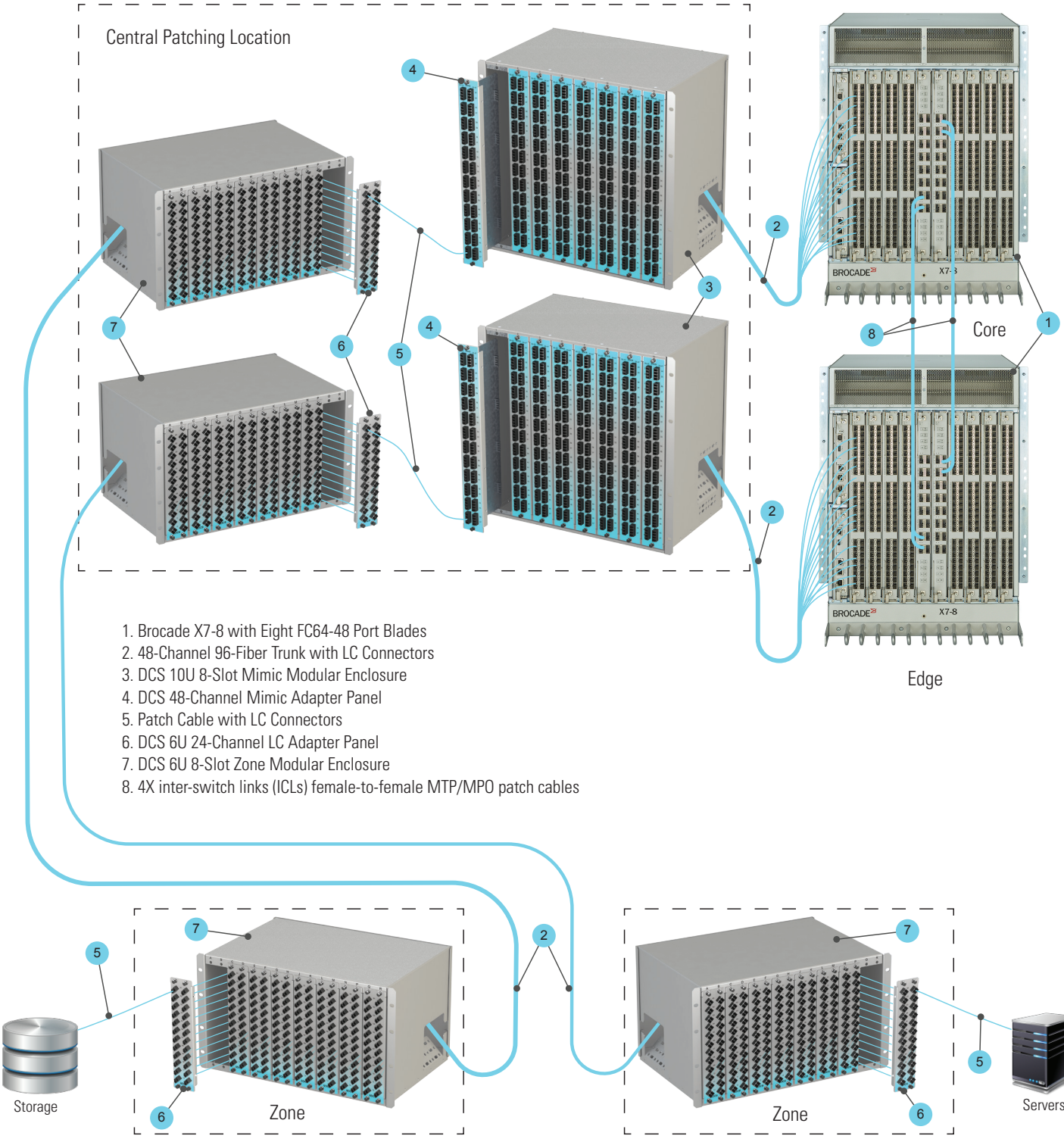
SOLUTION DIAGRAM

DCS STRUCTURED CONNECTIVITY SOLUTIONS FOR BROCADE GEN 7 DIRECTORS



1. Brocade X7-8 with Eight FC64-48 Port Blades
2. 48-Channel 96-Fiber Trunk with LC Connectors
3. DCS 10U 8-Slot Mimic Modular Enclosure
4. DCS 48-Channel Mimic Adapter Panel
5. Patch Cable with LC Connectors
6. DCS 6U 24-Channel LC Adapter Panel
7. DCS 6U 8-Slot Zone Modular Enclosure
8. 4X inter-switch links (ICLs) female-to-female MTP/MPO patch cables

FIND OUT HOW DCS' CONNECTIVITY SOLUTIONS CAN IMPROVE YOUR DATA CENTER PERFORMANCE.

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WHAT YOU NEED TO KNOW

Brocade Gen 7 Fibre Channel with 64 Gb/s links dramatically increases IO performance. However, this demands a high-performance structured FC Infrastructure to support this exponential data growth. 64 Gb/s links require ultra-low latency, reducing cabling distances and connector loss requirements. As a result, current cabling infrastructure may not support Gen 7 speeds.

REDUCED DISTANCE AND CONNECTOR LOSS

1.5dB of connector loss needs to be maintained over the entire structured link for up to 100M switch to server distance over OM4 fiber. Less distance for OM3. Connector loss applies to the terminated ends of the fiber as well as patch panels or other interconnects. Any links beyond the FC-PI-6 (Gen 6) standard may be recognized as an unhealthy connection with a high probability of bit rate errors and increased latency.

16GFC (GEN 5) DISTANCE (M) / LOSS BUDGET (DB)

FIBER TYPE	CONNECTION LOSS				
	3.0 dB	2.4 dB	2.0 dB	1.5 dB	1.0 dB
OM4	NA	50	100	125	150
OM3		40	75	100	120
OM2		NA	NA	35	40

32GFC (GEN 6) DISTANCE (M) / LOSS BUDGET (DB)

FIBER TYPE	CONNECTION LOSS				
	3.0 dB	2.4 dB	2.0 dB	1.5 dB	1.0 dB
OM4	20	65	80	100	110
OM3	15	45	60	70	80
OM2	NA	15	15	20	25
OS1/OS2	8250	9250	10000	11000	11750

64GFC (GEN 7) DISTANCE (M) / LOSS BUDGET (DB)

FIBER TYPE	CONNECTION LOSS				
	3.0 dB	2.4 dB	2.0 dB	1.5 dB	1.0 dB
OM5	40	70	85	100	115
OM4	40	70	85	100	115
OM3	30	50	60	70	75
OS2	8000	9200	10000	11000	12100

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DCS PROFESSIONAL AND MANAGED SERVICES

If you are planning to upgrade to Gen 7 directors, DCS can work with you and your team to assess your existing infrastructure and design a new sustainable infrastructure to support current and future requirements.

DCS SERVICES

- We provide an assessment of your current infrastructure and consultation on bringing it up to the latest generation standards and a True Structured Cabling environment.
- We then establish a Central Patching Location (CPL) with our Multi-Bay to represent all ports on all devices within the data center network.
- By adding our Mimic series of connectivity products, we can identify each piece of equipment in its own image at the CPL. All ports are labeled exactly as the equipment they represent.
- If needed, our Engineering services will design patching and cable management products specific to your data center to improve your connectivity infrastructure.
- Installation services will mine out the obsolete cable, install new infrastructure and cabling from the equipment to the CPL.
- Our product-specific fiber trunk assemblies are built to mimic port labeling at the active equipment. Each connector leg is meticulously measured to reduce slack at the switch and avoid compromising connectivity.
- Each fiber port is documented and tested to exceed industry standards.
- Provide a series of fiber patch cords in various lengths and training on best practices in cable management.
- DCS Managed Services provide on-site technicians who perform day-to-day infrastructure and connectivity services and manage migration of next Generation upgrades.

PRODUCTS

DCS' unique products are designed for ease of port identification and cable management. We represent all ports on all devices with Mimic panels in our Multi-Bay open frame central patching facility. Contact us for more information on our Mimic Series of patching components.

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