Trends and Technology for the Datacentre

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Meeting The Challenges:

Whatever It’s A Building Or A Data Center, **The Enterprise Infrastructure Is A Living, Breathing Entity**, Constantly Changing and Evolving...
How do you make the choices?

- Driven by need to UNDERSTAND how resources are being used
- Management of:
  - Assets
  - Space
  - Connectivity
  - Power and Cooling
  - OPEX
- Capacity Planning and Demand Management
Data Center Planning Challenges

- Adapting to constant change: new applications and technologies
- Bandwidth growing at 50% per year
- Operating within budget limits

Solutions:
- Modular Data Centre
- DCIM (Data Centre Infrastructure Management)
Modular Data Center: Productivity on demand

Purpose-Built Data Centers: Combining the **Flexibility** of Traditional with the **Time-to-Value** of Modular
DCIM: Single Reality for IT and Facilities

What’s Happening?

Why?

What To Do About It
Data Center Energy Challenges

• Forecast: Increasing **Power Usage**

• Ongoing pressure to **MAXIMIZE POWER EFFICIENCY (PUE)** without jeopardizing uptime

**Solutions:**

• **DCIM**

• **Intelligent Lighting**
Intelligent Lighting in the DC

(Recommending 3-level LED lighting in DC)
Bandwidth Challenges and the Physical Layer

Infrastructure must support....

• Data expected to continue growing at 50% per year
• Cloud adoption rates continue to increase
• High bandwidth, low latency connectivity required

Solutions:
• Pre-Terminated Connectivity
• AIM (Automated Infrastructure Management)
• Installation Time Dramatically Reduced
  • Typical pre-term copper install is eight times faster than field term
  • Reduces deployment risk
  • “Phase II” install much less disruptive
  • Highly Adaptable Topology
  • The pathway to next-level bandwidth needs (40/100G)
High Density Pre-Terminated Fibre Solution

Modular Pre-Terminated system significantly reduces installation time in the Data Centre.

- **Server**
- **Patchpanel**
- **Modules**
- **Cable Assemblies**
- **Shelves**
- **Storage**

Scalability
Rapid-deployment Pre-Terminated Copper Solution

Modular Pre-Terminated system significantly reduces installation time in the Data Centre

- Module
- Trunk Cable (16-pair)
- Patch Panel
- Patch Cords
- Switch
- Servers
AIM: Intelligent Connectivity Management

- **Managing the Physical Layer**
  Real-time view of increasingly complex Layer 1 and connected devices

- **Increasing IT Efficiency**
  Identifies any unused IT assets: switch ports, panel ports, cabling for re-use

- **Supporting 3rd party integrations**
  Further efficiencies through process automation and reporting
Comprehensive management of the entire facility utilising the real-time visibility at the physical layer.
The Infrastructure Platform

- Data Center Infrastructure Management
- Intelligent Building Performance Lighting Platform
- Modular Data Center
- Intelligent Infrastructure Management
- In-Building Wireless
- Rapid deployment high-speed connectivity
- Structured Cabling
Solutions for all your Requirements
Thank You