

Data Centre Infrastructure

Modern data centre infrastructures have evolved – becoming both more critical and complex in the process and so have their requirements. With the benefits of new technologies and standards, come increased requirements for seamless scalability, temperature control, uninterrupted power supply, efficient space planning and, most important of all, 24/7 uptime.

Your business could benefit from our 10 years worth of experience in consulting, building and managing Data Centre Infrastructure solutions. Our expertise includes calculating Power Usage Effectiveness (PUE) and delivering maximum Coefficients of Performance (COP) on the cooling side for our clients. Our experience and expertise to improve the efficiency, performance and agility of your data centre will provide you with the scalability and efficiencies you require.

In designing your solutions we offer:

Precision cooling

- Temperature, humidity climate control
- Traditional Computer Room Air Conditioning (CRAC)
- Hot and cold aisle containment
- In row cooling solutions

Power management

- Electrical reticulation
- UPS and generator systems
- Energy management

Computer and network room environments

- Access flooring, cable management, partitioning, building work and room integrity.

Physical Integrated Security

- Access control, alarm and CCTV systems.

Fire Detection and Suppression

Environmental Monitoring

- SNMP (Simple Network Management Protocol) and GSM (Global System for Mobile Communications).

To optimise your data centre infrastructure, we believe ongoing support and management is crucial, from operations, change and configuration to capacity management – all areas we specialise in.

As a starting point, an assessment of your data centre infrastructure can help you understand the current state of your facilities, and enable your business to plan for future demand. Our assessment service includes:

- Audit of existing electrical, mechanical and fire systems.
- Any compliance issues to SANS 10142-1 or other applicable SANS standards (standards for Electrical wiring of premises).
- Benchmark facility against TIA 942 (Telecom Infrastructure Standards for Data Centres) and the Uptime Institute Tier classification.
- Recommendations report on improvements

To find out more about how we can provide an effective solution for your Data Centre Infrastructure needs, e-mail ai.information@dimensiondata.com