

## JSE COLOCATION & CONNECTIVITY BENEFITS

### BENEFITS

#### 1. Latency advantage

- Fastest trading and market data access to JSE markets
- Average round-trip Colocation network latency is sub 100 microseconds
- Speeds currently display as little as 20 microseconds
- Reduced bandwidth requirements for connectivity to the JSE

#### 2. New trading strategies

- Enabler of low latency trading strategies
- Enhanced response to market movements

#### 3. Cost saving

- Reduced bandwidth requirements between Colocation customers and JSE
- Reduced dependence on telecommunication providers
- Cost optimisation

#### 4. Infrastructure

- Resilient infrastructure
- Remote hands availability (remote access)
- World class technical engineers
- Network and physical infrastructure security
- Scalability
- Power options include 3KW and 5KW capacity feeds
- 2 Power feeds deployed within IDC
- DR facilities hosted Off -Site in secure location
- During the expansion Phase 1 to 4, there were 35, new racks incorporated into the IDC
- An additional 38 Racks installed/ made available, thereby depicting a total of 73 Racks

#### 5. Risk Mitigation

- Sophisticated JSE Data centre designed to Tier 3
- Biometric access standards
- Security camera's enabled
- World class technical engineers
- Tenant cabinet rack authorization
- Redundant power supply
- Customized approach to cabling: equal length
- Tier 3 IDC facility deployment
- Escorted access to the IDC

#### Connectivity:

- All cables between the hosting units and the Colocation network switches are of equal length irrespective of the hosting unit position within the Colocation facility.
- 10 gigabits per second fibre trading connectivity from the Colocation facility to the meet-me-room is facilitated as required via Cross Connects
- Time synchronisation will be offered via Precision Time Protocol (PTP)
- Currently hosting 16 National Service Providers (NSP) who terminate services directly in the JSE meet-me-room
- Multi-mode fibre deployed for top of the rack infrastructure connectivity

#### Scalability, security and stability:

- Sub-letting is allowed
- Capability to build a further 35 racks with 10 of the 35 to be built in 2018.
- 24/7 year round Colocation facility environment monitoring.
- Biometric scanners, closed circuit cameras, on-site security, coded access, alarm systems, and more are installed for our client's protection.
- Multiple backup generators and contingencies in place to ensure that there is never an interruption in service.
- 100% uptime of the facility