



PROJECT **PERFECT**
Pty Ltd

Infrastructure Checklist

Prepared By: Neville Turbit

Version 1.0

1 Feb 09

Table of Contents

Document Origin	2
Change History	2
Overview	3
Points to Consider	4

Document Origin

No.	Author	Department
1	Neville Turbit	Project Perfect

Change History

Version	Date	Changes
1.0	1 Feb 09	Initial Version

Overview

General comments

Infrastructure can be quite diverse. The areas covered will assist you to identify what may be required. The scale is from a data centre down to a single server.

The focus is on things that may need to be considered when setting up the infrastructure, not just on each component. For example when we look at air conditioning, we look at the things you may need to consider such as

- Operating temp range
- Relative humidity range
- Temperature gradient (degrees per hour)
- Relative humidity gradient (% per hour)
- Filtration type
- Settling period
- Backup system
- Humidity control
- Particle and chemical extraction
- Recording instruments
- Alarms

You probably have an air conditioning system in place, but will the solution impact any of the points above and require changes (and cost) for the air con?

Approach

Go through the list and identify what is applicable to your infrastructure. Through a workshop, identify other infrastructure that may be specific to this solution implementation. First request a proposal from the vendor, or invite the vendor to the workshop.

Points to Consider

Facilities Design

- Security
 - Monitoring
 - Separate testing/pre-installation area
 - Separate printing area
 - Comms installation area
 - Loading docks
 - Accessibility for deliveries
 - Secure tape storage area
 - Location of columns, services, lifts wells etc.
 - Location of patch panels
 - Storage space
-

Floors

- Elevated
 - Access to
 - Load carrying capacity
 - Conductivity & earthing
 - Fire resistance
 - Underfloor clearance
 - Sealing of the underfloor to prevent dust and moisture
 - Security
 - Electrostatic management
 - Vibration limits
 - Drainage
 - Vermin protection
 - Drainage
-

Walls & Ceilings

- Height
 - Sealing
 - Fire resistance time
 - Fire propagation
 - Cable trays
 - Windows
 - Security
-

Doors

- Width and height
 - Locations
 - Fire resistance
 - Security
-

Continued on next page

Points to Consider, Continued

- Lighting**
- Level
 - Uniformity
 - Location
 - Emergency
-

- Air Quality**
- Temperature range
 - Relative humidity range
 - Condensation
-

- Air Conditioning**
- Operating temp range
 - Relative humidity range
 - Temperature gradient (degrees per hour)
 - Relative humidity gradient (% per hour)
 - Filtration type
 - Settling period
 - Backup system
 - Humidity control
 - Particle and chemical extraction
 - Recording instruments
 - Alarms
-

- Power Supply**
- Power conditioning
 - Voltage tolerance
 - Max Loads
 - Emergency Power off control
 - Electromagnetic output
 - Separation between power and data cables
 - Location of distribution panels
 - Availability of GPO's
 - Number of circuits
 - Protection for each circuit
-

- Fire Protection**
- Detection and Alarm system
 - Protection system
 - Portable extinguishers
 - Fire resistant storage
-

Continued on next page

Points to Consider, Continued

- UPS**
- Time to initiate
 - Support time
 - How often tested
 - Location of batteries
 - Back up generator
-

- Physical Security**
- Who can access
 - How do they access
 - Hours of access
 - How are changes to access managed
 - Physical escorting
 - Advice of breaches
-

- Facilities Support**
- What is monitored
 - Process for handling problems
-

- Racks**
- Dimensions
 - Lockable doors
 - Power supply
-

- Environments**
- Production
 - Development
 - Testing
 - Training
-

- Desktop**
- PCs
 - Monitors
 - Peripherals
 - Operating System
 - Comms Software
 - Terminal Server
 - Remote Management
 - Cabling
 - Wireless networks
 - Scanners
 - Printers
-

Continued on next page

Points to Consider, Continued

Hardware

- Servers
 - Switches
 - Hubs
 - Routers
 - Modems
 - Firewalls
 - Storage
 - Backup (tapes, external drive etc.)
 - Patch Panel
 - Compatibility issues between hardware
 - Service contracts
 - Lead time for delivery
-

Software

- Databases
 - Security
 - Anti Virus
 - Firewall
 - Performance monitoring
 - Virtual
 - Compliance with enterprise architecture
-

Communications

- Bandwidth requirements
 - WAN requirements
 - IP addresses
 - E-mail addresses
 - Customer access
 - Supplier access
 - Certificates
 - Dial up or remote access
 - Use of PDAs or mobile devices
 - Laptop synchronisation
-

Supplies

- Tapes
 - Other backup media
 - Special stationary
-

Continued on next page

Points to Consider, Continued

Training and documentation

- What training is required
 - Who will be trained
 - Process documentation
 - Manuals
 - User guides
 - Online support
-