

Server Room Design Checklist

| | |
|-----------------------------------|--|
| Project Number: | |
| Company: | |
| Contact Name: | |
| Mobile and Email: | |
| Site Address and Postcode: | |
| 'Go Live' Date: | |

| Item | Projects Areas | Indication <small>Tick/strike out</small> |
|-------------|-----------------------------------------------------------------|----------------------------------------------|
| 1.0 | Project Type | |
| 1.1 | New installation | Yes/no |
| 1.2 | Systems upgrade | Yes/no |
| 2.0 | Location | |
| 2.1 | Existing office(s) | Yes/no |
| 2.2 | New build | Yes/no |
| 2.3 | Brown field renovation | Yes/no |
| 2.4 | Industrial facility | Yes/no |
| 2.5 | Car park or outside land installation | Yes/no |
| 2.6 | Remote or mobile site | Yes/no |
| 2.7 | On-board ship or off-shore installation | Yes/no |
| 3.0 | Room and Facility Type | |
| 3.1 | Network closet / computer room | Yes/no |
| 3.2 | Server Room | Yes/no |
| 3.3 | Micro-datacentre (self-contained) | Yes/no |
| 3.4 | Datacentre facility | Yes/no |
| 3.5 | External modular containerised room required | Yes/no |
| 4.0 | Room or Facility Design | |
| 4.1 | Raised access floor | Yes/no |
| 4.2 | Raised access floor plenum depth (m) | m |
| 4.3 | Suspended ceiling | Yes/no |
| 4.4 | Ceiling height (m) | m |
| 4.5 | Fire suppression system installed | Yes/no |
| 4.6 | Environment monitoring installed (temperature, humidity, water) | Yes/no |
| 4.7 | Access security system installed | Yes/no |
| 4.8 | CCTV monitoring installed | Yes/no |
| 4.9 | Room windows present | Yes/no |
| 4.10 | Existing cooling vents and pipework | Yes/no |
| 4.11 | Space for future expansion (state % utilisation) | % |
| 4.12 | Current IT/power usage (kW/m ²) | kW/m ² |

| | | |
|------------------------------------------|---------------------------------------------------------------------|--------------|
| 5.0 | Rack Arrangements | |
| 5.1 | Single rack cabinet | Yes/no |
| 5.2 | Single row of cabinets | Yes/no |
| 5.3 | Number of racks per row | - |
| 5.4 | Maximum internal depth required (600mm / 800mm / 1000mm or bespoke) | mm |
| 5.5 | Maximum height required (U or M i.e. 47U or 2m) | U/m |
| 5.6 | Multiple rows of cabinets (show arrangement in drawing) | Yes/no |
| 6.0 Cooling Arrangements | | |
| 6.1 | Existing cooling capacity (sensible cooling kW) | kW |
| 6.2 | Additional cooling required | Yes/no |
| 6.3 | Additional cooling capacity (sensible cooling kW) | kW |
| 6.4 | Hot-aisle/cold-aisle arrangement | Yes/no |
| 6.5 | Server rack cooling installed (fans or liquid) | Yes/no |
| 6.6 | Refrigerant cooling room system installed | Yes/no |
| 7.0 Power Protection Arrangements | | |
| 7.1 | PDUs installed (basic, metered, smart) | - |
| 7.2 | Decentralised UPS installed | Yes/no |
| 7.3 | Centralised UPS installed | Yes/no |
| 7.4 | Battery runtime required (minutes) | M |
| 7.5 | Standby power generation | Yes/no |
| 7.6 | External UPS maintenance bypass required | Yes/no |
| 7.7 | Automatic transfer switch installed | Yes/no |
| 7.8 | On-site energy storage system required (Li-ion batteries) | Yes/no |
| 8.0 Monitoring Systems | | |
| 8.1 | Temperature monitoring | Yes/no |
| 8.2 | Humidity monitoring | Yes/no |
| 8.3 | Water monitoring required | Yes/no |
| 8.4 | Room access monitoring required | Yes/no |
| 8.5 | Server rack access / tamper monitoring | Yes/no |
| 9.0 Electrical Power | | |
| 9.1 | Electrical supply arrangement in the room: single or three phase | single/three |
| 9.2 | Amperage (A) or real power (kW) draw | - |
| 9.3 | Extra capacity required (A or kW) | - |
| 9.4 | Switchboard capacity check | Yes/no |
| 9.5 | Critical, Essential and non-essential load connections reviewed | Yes/no |
| 9.6 | Last electrical safety check and maintenance date | __/__/__ |
| 9.7 | On-site renewable power generation | Yes/no |
| 9.8 | Plans for site load development (electric vehicles, energy storage) | Yes/no |

Critical Systems Equipment List

| Unit | Type* | Make | Model | Serial No |
|------|-------|------|-------|-----------|
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |
| 7 | | | | |
| 8 | | | | |
| 9 | | | | |
| 10 | | | | |

* Please state the type: server racks, IT hardware, UPS or AC (Air Conditioner)

Site or System Description and Information

Please use this section to provide further information, drawings and photographs where available.

