business **nbn**® Network Termination Device (BNTD) equipment location guide

The purpose of this guide is to help you understand the installation requirements for your business **nbn** Enterprise Ethernet equipment.

Location

The ideal location for a business **nbn** Network Termination Device (BNTD) is a server room or communications room. This guide includes a list of prohibited locations.

Wall and rack-mount options

Your **nbn** equipment will either be wall or rack-mounted. The location and installation must comply with the relevant standards, including business **nbn** Equipment Location Requirements Guide and Building Code of Australia Volumes 1 and 2 for safety and maintenance purposes.

Wall mount

The BNTD and AC Power Supply Units (PSUs) will be housed within a coated, metallic enclosure that is fixed to a suitable wall. This may be inside a cupboard or cabinet that complies with minimum clearances.

The chosen wall must be flat, and suitably constructed for fixing the **nbn** equipment enclosure. Health, Safety & Environment (HS&E) standards and **nbn** engineering standards require that the wall must also meet a set of both minimum and maximum measurements. These are outlined at a high-level in Figure 1a and 1b; further detail is available in the Equipment Location Requirements Guide.

The customer should ensure no obstructions are placed in front of the BNTD, for safety and optimal operation.

Where the wall-mount enclosure is placed within a cupboard or cabinet, the space must meet minimum clearance requirements.

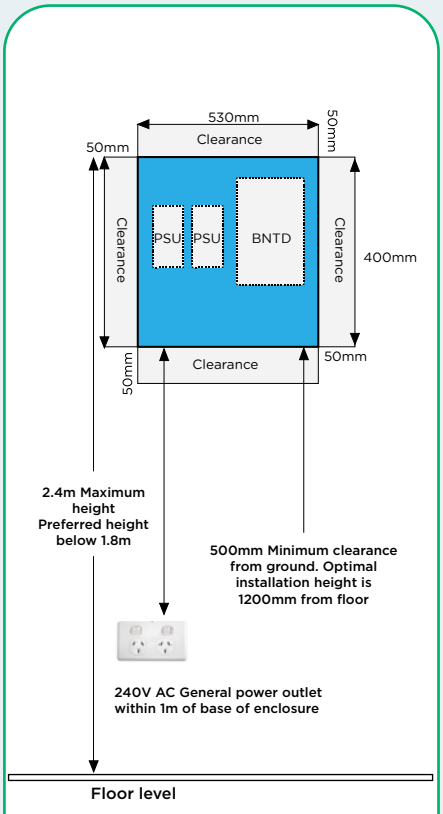

Figure 1a. Wall mount – front view

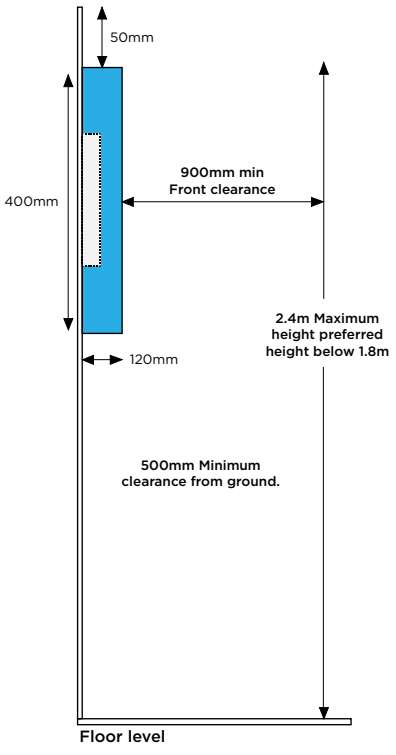

Figure 2a. Wall mount – side view

Rack-mount

BNTD and PSUs can be installed in a suitable customer supplied communications rack if one is available. Minimum space and clearance requirements must be met by the available rack space.

The customer must supply the rack, if requiring a rack-mounted solution. The rack and surrounding area must meet minimum and maximum measurements, for equipment placement, clearance and ventilation. These are outlined at a high-level in Figures 2a, b and c; further detail is available in the Equipment Location Requirements Guide.

Customers selecting a rack-mounted solution should ensure no other equipment is placed in the reserved rack space.

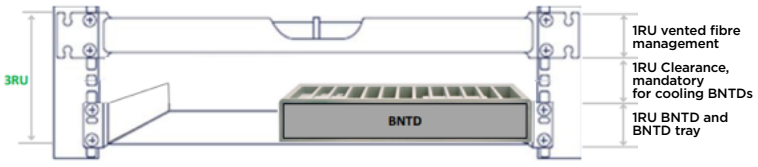

Figure 2. Rack-mounted tray clearance requirements

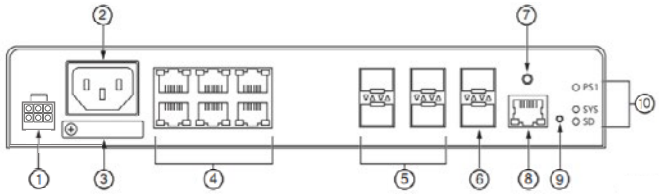

Figure 2b. 1Gbps BNTD cooling fins clearance requirements - 26mm minimum clearance

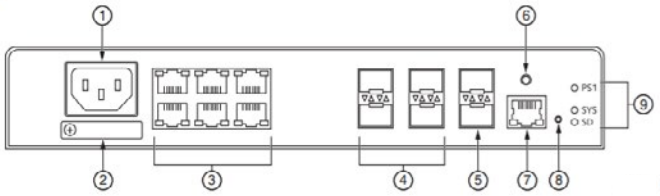

Figure 2c. 10Gbps BNTD cooling fins clearance requirements - 26mm minimum clearance

The existing customer rack should have clear access from the front of the desk.

To allow ease of installation and **nbn** personnel to have sufficient access to be able to install and maintain the **nbn** equipment within the rack, 900mm is recommended.

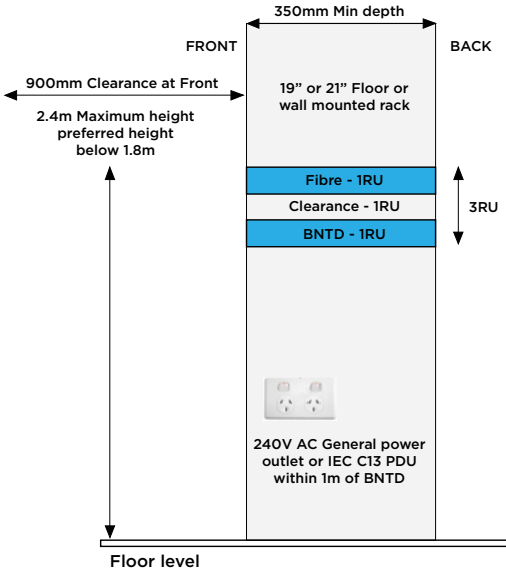

Figure 3. Rack front clearance - side view

Power and earthing

Earthing and power connections should be as per AS/NZS3000:2018 – these specifications will be amended from time to time.

business **nbn** Enterprise Ethernet requires the customer to provide either of the following:

- 240V AC General Power Outlet (GPO) per AC PSU ordered. The GPO should be located within 1000mm.
- DC 2A circuit breaker per DC PSU ordered, on a 48V DC Distribution Panel. A communications earth terminal and/or rack earth is required.

Note: this option is only available with a rack-mounted solution.

Learn more about the business **nbn** Equipment Location Requirements Guide at:
nbn.com.au/fibreforbusiness

