



DESIGN ENGINEER SUSTAIN

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The Trilogy, Ellesmere Street, Manchester

Broadband Connectivity Assessment

QA

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Section 1 – Introduction

Futureserv Ltd has been commissioned to investigate the broadband connectivity at the proposed building development located at The Trilogy, Ellesmere Street, Manchester.

To meet demand for broadband, the UK government has published Approved Document R volumes 1 and 2 to set out the requirements for electronic communications network infrastructure in buildings. Both documents came into force in December 2022.

In updating Approved Document R, the government aims to ensure that as many UK homes as possible have better connections, with a target for a minimum of 85% gigabit-capable coverage by 2025.

Requirements RA1 and RA2 in volume 1 applies to the erection of a dwelling or of a building that contains one or more dwellings. This requires a network capable of providing broadband access at download speeds of at least 1,000Mbps – that is, one gigabit.

An initial assessment of the availability of broadband services and the associated speeds has been determined based on:

- Openreach coverage checker – which is available via the Openreach website and identifies available speeds in any area within the UK.

The table shows the predicted broadband services in your area.

Broadband type	Highest available download speed	Highest available upload speed	Availability
Standard	8 Mbps	0.9 Mbps	
Superfast	80 Mbps	20 Mbps	
Ultrafast	1800 Mbps	220 Mbps	

Networks in your area - Openreach

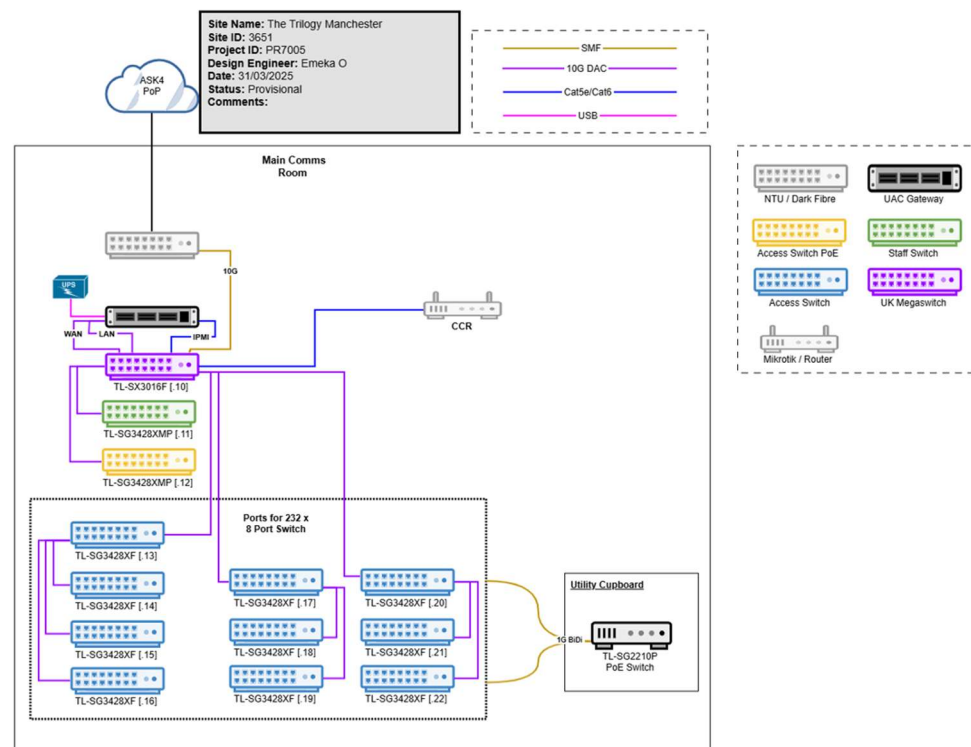
Click on a network's name to be directed to a website where you can find out about service availability and how to request a service from them or one of their partners.

- Crosschecks with three of the main UK broadband providers.
- Investigation of the current broadband provisions to the premises.

Section 2 – Background

The Trilogy development includes the construction of an additional floor, and the addition of 8 new apartments in the current residential tower.

ASK4 currently provides coverage to the building at 10 Gb bearer with 2 Gb bandwidth, with a 350 Mb speed packages for the end users.



Section 3 – Additional Works

ASK4 provides private infrastructure to the building, providing internet service for all staff and communal areas, and to all apartments. Some additional works will need to be carried out to extend the service to the additional areas.

This requires the following works to be completed:

- The contractor will need to run new OS2 fibre from the main comms room to each apartment. All fibre to terminate in the main comms room.
- ASK4 will need to install new switching in the main comms room to serve the additional apartments.
- ASK4 will need to install new switching within the additional apartments.
- The contractor will need to run new cabling from the utility rooms to the data points inside each apartment.
- ASK4 will need to install new access points (APs) in the apartments

Section 4 – Completed Works

Once the works have been carried out. ASK4 will provide a 350 Mb speed package for the end users in the new 8 apartments on the additional floor. The additional apartments will not affect the existing broadband connectivity to the building, which is to remain the same.