
Fibre specifications

The Aurora Telecom fibre network is predominantly G.652.D fibre, with other types available in certain locations. For attenuation, chromatic dispersion and polarization mode dispersion (CD/PMD), specific details are provided below.

Primary fibre type and performance

Fibre Type: G.652.D (low loss)

- Attenuation:
 - at 1310nm: <0.32 dB/km
 - at 1550nm: <0.18 dB/km
 - at 1625nm: <0.20 dB/km
- Chromatic dispersion:
 - at 1550nm: <=18 ps/(nm.km)
 - at 1625nm: <=22 ps/(nm.km)
- Fibre polarization mode dispersion:
 - <0.1 ps/√km (ps/per sq. root km)

Other, bespoke, cable solutions have been completed for projects where alternative fibres have been used such as Corning® Leaf® (G.655), G654.E (TXF), G.652.D and G.657.A1 (Ultra).

Service level agreement

- Reputation for consistent uptime and quality performance with low latency
- Fault logging via Aurora Telecom Emergency Maintenance contact number 1800 427 399
- For emergency faults;
 - Initial response, post phone call, is within 60 minutes
 - On-site within two hours
- Aurora Telecom has a service restoration target of 8 hours

The network and diversity

- Aurora Telecom has over 1,600 km of high-quality dark fibre; see map overleaf for route details
- Aurora Telecom's network offers a unique diverse routing that is geographically diverse to competitor networks
- It is ideal as a primary route or a diverse route from a customer's current path
- Co-location facilities with DC battery backup and on-site diesel backup generators

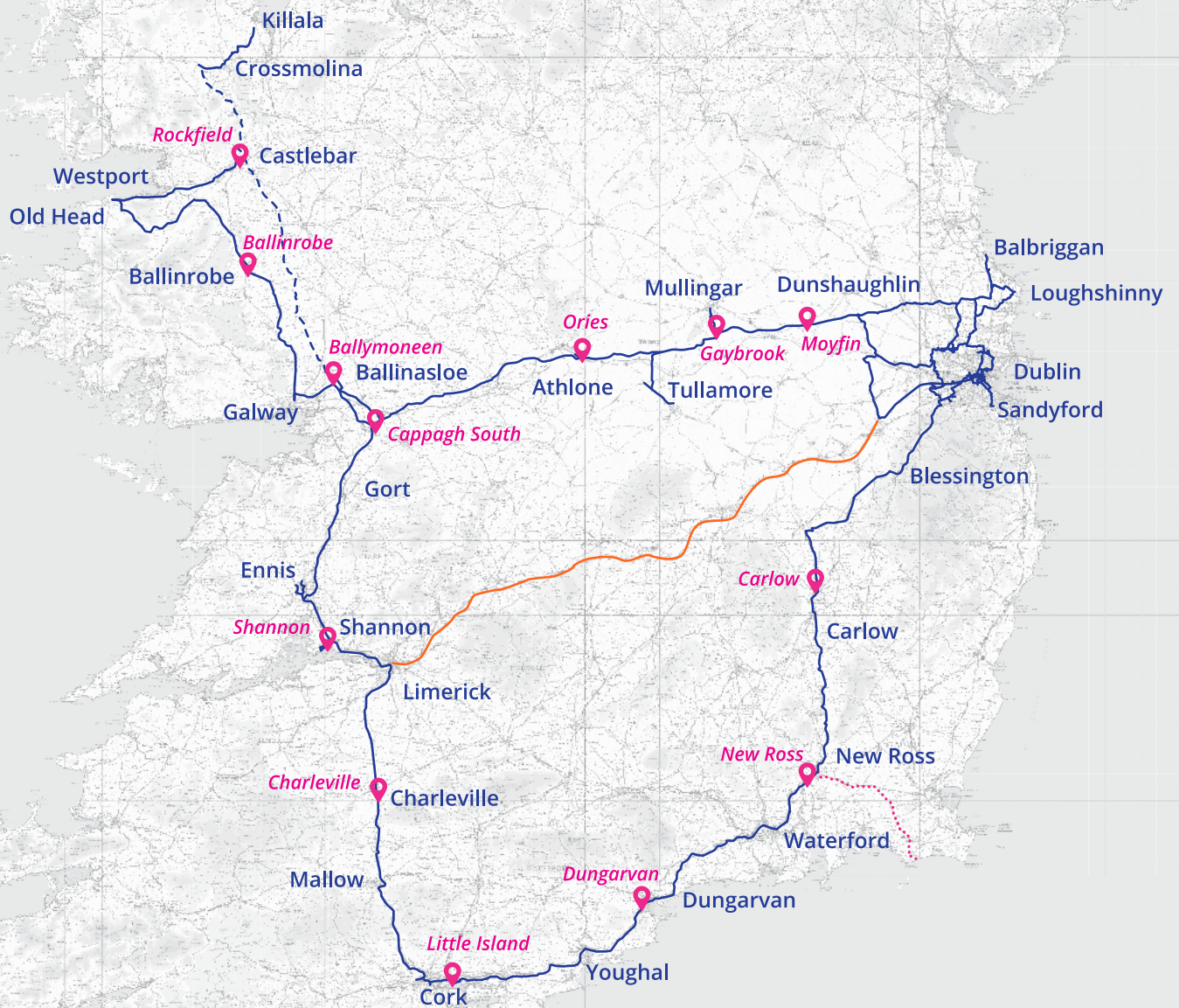
Network resilience

- As a division of Gas Networks Ireland, large portions of Aurora Telecom's fibre network are adjacent to the gas network
- Due to the strict procedures in place for access and working in the vicinity of a high-pressure gas pipeline, Aurora Telecom's network benefits from a greater level of resilience due to frequent aerial, foot patrols and inspections
- As the network is underground, this minimises the impact of extreme weather events that commonly impact other fibre networks

24/7 monitoring




- Aurora Telecom use an optical network management system (ONMS) for active monitoring of the fibre network with built in alarms and processes to alert and manage any event
- Building management system (BMS) monitoring of all co-locations to immediately alert on all Priority 1 and Priority 2 events
- Full 24/7 NOC monitoring is also in place for 24/7 communication and investigation with field teams ready to mobilise if required

National Network



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-  Colocation / ILA sites
-  National network
-  New line in development