The All-IP Journey
All-IP Vision – Openreach will enable the UK to become a fully digital nation by 2025

- Multiple services for both commercial and consumer products will all run over a single IP line
- Today, PSTN\(^1\) is the only service that is not yet fully part of the digital revolution
- By 2025 our aim is to have provided the ecosystem to enable all CPs\(^3\) to embrace and complete the move to All-IP

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\(^1\) IP – Internet Protocol
\(^2\) PSTN – Public Switched Telephony Network
\(^3\) CP – Communications Provider
In the UK Openreach has developed a suite of All-IP products that will enable CPs to embrace and complete the move to All-IP.

- **FTTP** (Fibre to the premises)
  - Our fastest & most resilient All IP product

- **SOGfast** (Gfast single order generic ethernet access)
  - Delivering Ultrafast in a single order

- **SOGEA** (FTTC single order generic ethernet access)
  - Delivering Superfast in a single order

- **SOTAP** (Single order transitional access product)
  - Supporting non fibre areas

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**Single Order portfolio**
The Single Order portfolio delivers the same broadband services but the network is arranged in a very different way and this impacts services such as voice.

Voice and broadband are split and delivered to different exchanges:
A CP places two orders for a copper line (LLU/WLR) and FTTC/Gfast.

**Delivery method today**

Voice and broadband are delivered to the same exchange, not always the local exchange:
A CP places one order for SOGEA or SOGfast.

**Single Order delivery method**

Openreach line tests are run from the exchange where the copper line terminates.

Openreach line tests are run from the cabinet. CP could consolidate exchanges.

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1. LLU – Local Loop Unbundling
2. WLR – Wholesale Line Rental
3. PCP – Primary Connection Point
4. DSLAM – Digital Subscriber Line Access Multiplexer
5. VDSL – Very high-speed Digital Subscriber Line
**FTTP is natively All-IP**

**Plan & Build**

- **Exchange**
  - Optical line termination
  - Optical distribution frame
  - Cable chamber joint

- **Universal node**
  - Hosts FTTP splitter(s) & cross-connection fibres for point-to-point services

- **Intermediate joints**
  - Allows fibres to be left close to customers for MDU\(^2\) build

- **Fibre capacity**
  - To support other services

- **Aggregation node**
  - Connects high-capacity spine to distribution cables

**Consumer Lead To Cash**

- **Connectorised block**
  - Multi-port block terminates network outside premises

**Business Lead To Cash**

- **Residential products (FTTP)**
- **MNO\(^3\) network requirements for 5G**
- **Ethernet products (point-to-point)**

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1. GPON – Gigabit Passive Optical Networks (active FTTP equipment)
2. MDU – Multiple Dwelling Unit (e.g. an apartment block)
3. MNO – Mobile Network Operator