



Building  
Digital UK

## **Call-Off 5**

Lot 21: Essex

Lot 4: North East England

## **Call-Off Schedule 2 (Tender)**

GIGABIT INFRASTRUCTURE SUBSIDY

OFFICIAL – SENSITIVE

COMMERCIALLY SENSITIVE – NOT FOR WIDER DISTRIBUTION



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## 1. Network Diagram

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### 1.2 Accuracy of, and Changes to the Network Design Proposal

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### 1.3 Description of Network Diagrams, and Interpretation

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### 1.4 Further Example network diagrams

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### 1.5 HTML whole-lot Network Diagrams

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## **2 Network Design and Data Network Topology – Layers 1-5**

### **2.1 Specification of Key Network Elements: Active, passive equipment & Cable**

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### **2.2 Specification of Headend and active components**

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### **2.2 Specification of Network Components & Cables**

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### **2.4 Specification of Network Cables**

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### **2.5 Specification and layout of Active Network Elements – Subtended Headends**

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### **2.6 Specification of Passive Network elements**

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## **2.7 Specification of Exchange / Core Site terminations**

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## **2.8 Specification of Fixed Wireless assets – N/A**

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## **2.9 Rationale for deployment of solution components**

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## **2.10 Meeting the Access Line Speed requirements**

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## **2.11 Compliance with regulatory & Industry Standards (Joint Schedule 10) - Standards-Based Design**

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## **2.12 Design parameters and management of Jitter, Latency & Packet Loss**

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## **2.13 Radio and Interference planning**

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## **3 Access Network**

### **3.1 Specification of Physical External Infrastructure Assets: Open access for the Long term**

### **3.2 Specification of Active Network Elements: High reliability upgradeable infrastructure**

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### **3.3 Specification of Passive Network Elements: Longevity with the scale for full fibre**

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### **3.4 Specification of Exchange Site Terminations: Carrier-Class deployment supporting multiple RSPs**

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### **3.5 Specification of Fixed Wireless assets – N/A**

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### **3.6 A description of Openreach's FTTP architecture and approach to delivering a costed network proposal for the Authority**

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### **3.7 Dimensioning the built physical infrastructure: support of dimensioned IA premises and Network Access**

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## **4 Backhaul and Core Networks**

### **4.1 Backhaul Infrastructure design – Solution Overview**

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### **4.2 BT & Openreach products for backhaul –Technology, Infrastructure & Design Parameters**

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### **4.3 Dimensioning Capacity of the Backhaul & thresholds for increasing capacity – Interconnect at the Headend (OLT)**

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### **4.4 Resilience in the Backhaul and Core**

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### **4.5 National Network, and Data Centre connections**

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## 4.6 Network & Traffic Management

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