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## ADDENDUM FIVE

**DATE:** December 15, 2020

**TO:** All Bidders

**FROM:** Sheila Brown, Interim Procurement/Contract Administrator

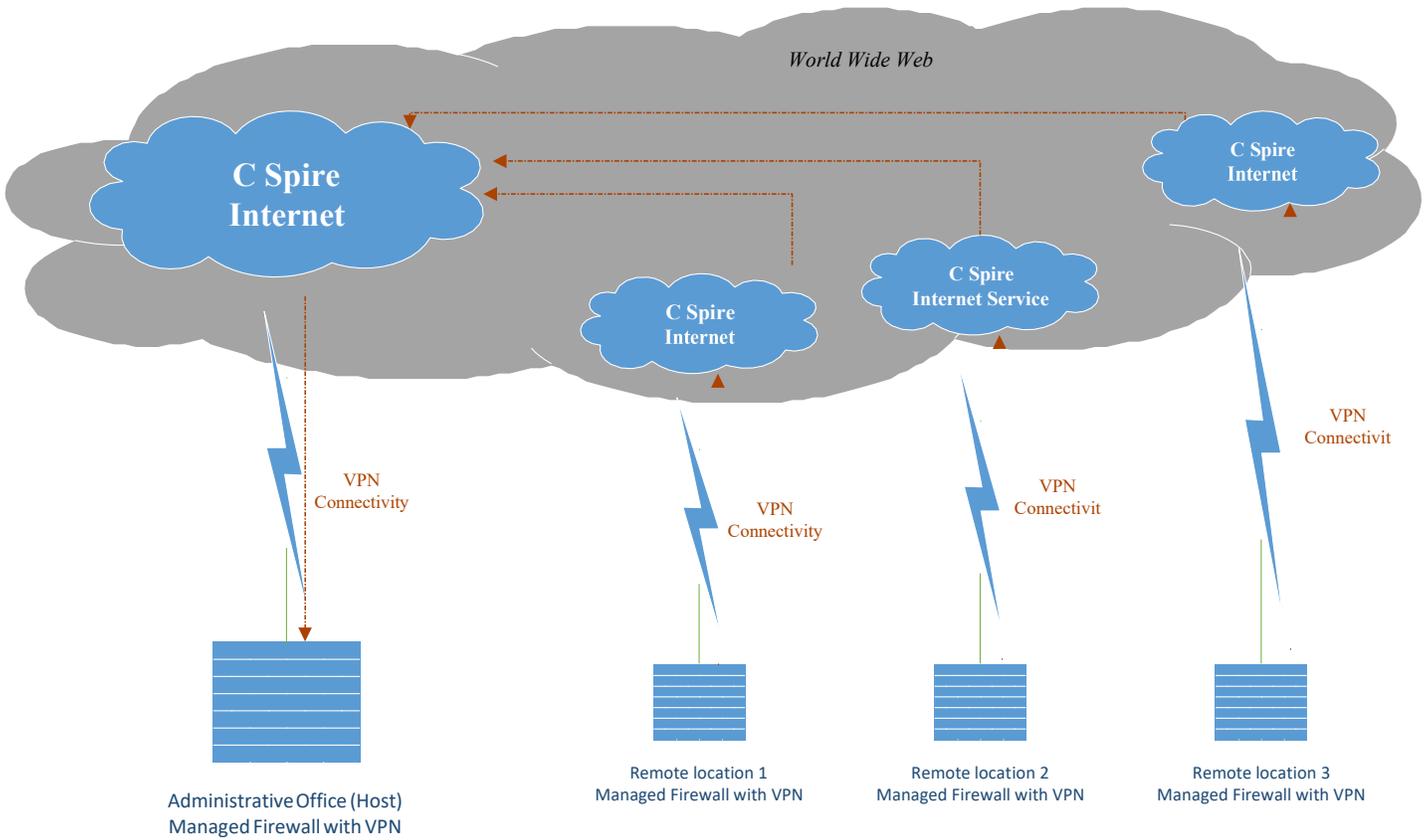
**RE:** **ADDENDUM #5 Questions and Answers #4**

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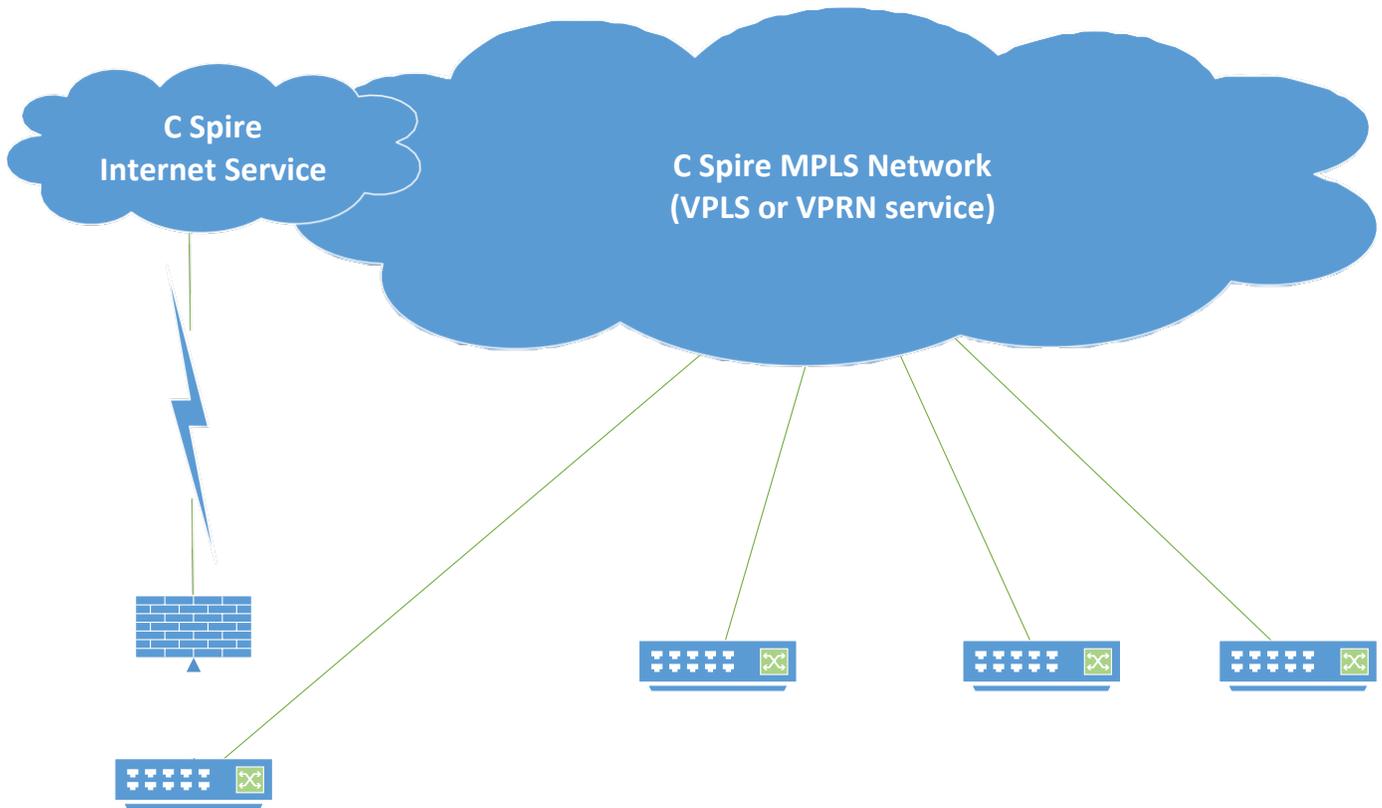
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Page 11 – Data requirements section

1. For bandwidths of 1 Gbps or higher C Spire requires an optical termination point. Please provide the following:
  - i. Equipment make and model (Firewall, Router, or Switch) that the circuit will be connecting to.
  - ii. Fiber type: Single-mode or Multi-mode
  - iii. Connector type: ST, SC, FT, LC, or MPO/MTRJ
2. Data service and Voice service will be provided with separate circuits for service. Will the Video security and Public Wifi utilize the same Data service circuit or will these services need separate circuits as well?
3. For connectivity requirements, will each location require Internet only circuits (Diagram 1) or will the connectivity to the Housing office/community (remote locations) require private connectivity (Diagram 2) back to the Host Location (Administrative Office)?
  - i. If Internet only circuits are required at the Housing office/community (remote locations), these locations will utilize the internet service at the location and will require a firewall with VPN capabilities to communicate back to the Host Location (Administrative Office). See Sample Diagram 1:



- ii. If private connectivity to the Housing office/community (remote locations) is required, these locations will utilize the internet service at the Host Location (Administrative Office). See Sample Diagram 2:



Remote location 1

Remote location 2

Remote location 3

Administrative Office (Host)

**a. VPLS Service (Unmanaged service)**

Virtual Private LAN Service (VPLS) is a multipoint Layer 2 service that allows multiple customer sites to be connected in a single-switched domain contained within the C Spire network.

Customer sites in the VPLS appear to be on the same LAN, even if the sites are geographically dispersed. VPLS services switch traffic based on MAC addresses.

**b. VPRN Service (Managed service)**

Virtual Private Routed Network (VPRN) is a Layer 3 service that exists within the C Spire IP/MPLS network and appears as a simple IP router that connects two or more customer locations. The VPRN allows the customer edge (CE) devices to exchange route information with the VPRN as if it were an IP router. The IP packets containing customer data are encapsulated in MPLS labels and tunneled across the C Spire IP/MPLS network.

4. What is the technical responsibility for Netelysis, will they be managing any hardware, or will they have any network responsibilities?

**MHA Responses:**

1. MHA will not be using the current network devices, the selected vendor will provide equipment, remote sites currently use third party device.
2. It will be the vendors choice on how best to deliver secure data services for video security and public Wi-Fi. Separate data service was only required for voice services.
3. Each MHA location will not need internet connectivity. Each remote site will require private connectivity back to the central host office. Diagram 2
  - a. Vendor may submit alternate solutions in addition to compare service and cost
4. Netelysis currently manages the network, VPN devices are deployed at each office.

**We are grateful for your interest in doing business with our Agency and we look forward to receiving a proposal from your firm.**