



Last Mile Connectivity

Title / Subject

Connections between an ASR site and a Non-ASR device (Console, etc)

References/Updates:

August 9, 2022

1. Introduction/Purpose

This policy is pertinent to connections between ASR site and a non-ASR device such as a console or other non-Motorola network device. The SIEC Technical Committee must be consulted and will review all proposed plans to add any additional equipment into the SIRN system.

2. Definitions

All definitions are located in the "Definitions" document located on the SIRN Website at www.sirn.wv.gov.

3. Connectivity methods – While connections between ASR sites are limited to AVIAT microwave equipment, connections of consoles and other non-ASR sites to the SIRN system may be connected by:

- a. Ubiquiti or equivalent microwave equipment**
 - i.** Equipment and any associated expenses on each end of the last mile will be the responsibility of the Last Mile endpoint facility.
 - ii.** The requirement in 3.a.i. will apply even in the case where a double hop may be necessary to facilitate the connection.
 - iii.** If a double hop is necessary to complete the connection, any intermediate equipment will be provided by the endpoint. Items required could be, but not limited to:
 - 1.** Tower.
 - 2.** All Antennas.
 - 3.** Antenna Cabling, Connectors, and any mounting hardware.
 - 4.** Electrical Equipment - Responsibility for the Electric Bill is the endpoint owner.
- b. Internet Service Provider**
 - i.** 3.a.i. will apply
 - ii.** Connectivity will require an encrypted connection (such as VPN) to be approved by the SIEC that includes the ability for SIRN technicians to see the connectivity state.
- c. Any equipment and methodology to provide redundant connections in the case of failure of the primary connection may include, but not be limited to:**
 - i.** Any of the connection methods listed above other than the primary method that was selected.
- d. Security – All paths will be approved by Motorola engineering and SIRN technicians.**
- e. All paths will contain a firewall at both the SIRN end and the last mile endpoint.**
 - i.** Firewall configurations will be approved by SIRN technicians or their designees.
 - ii.** All paths will be subject to audit by SIRN security at any time.
 - iii.** All network diagrams must be provided.
- f. An encrypted connection must be used for data conduits.**
- g. Connectivity Failures- Failures in the connectivity to the system must be first diagnosed by the endpoint facility to assure last mile operability before reporting trouble to SIRN.**
- h. SIRN reserves the right to disconnect any connection that is deemed to be causing a detrimental effect to the system or to other user agencies.**