Reader Controller Network Guidance and Considerations

Overview:

The ISONAS reader/controller is an IOT style device that requires minimal network configuration to function. When using the RC in conjunction with Pure Access Cloud the RC must be able to have a clear path to the internet on port 55533. No other ports are required.

Guidance and Considerations:

Firewall:

- The reader controllers communicate on port 55533.
- If Intrusion Detection and Prevention is enabled double check the firewall logs for dropped packets with a source IP that matches a reader/controller and create bypass rules as needed.
- A firewall egress rule allowing the IPs of the reader/controllers is required.
  - Note: the devices do not proxy.
- Recommendation is to create a group for the IPs and apply the group to a rule to allow 55533 to communicate with pureaccesscloud.com (IP 52.40.147.42). Both UPD and TCP should be allowed to pass.

DHCP:

- If the reader/controllers are to be left on DHCP it is strongly recommended to use reservations so the IP address does not need to be renewed.

Network:

- If possible the reader/controllers should be in a dedicated subnet.
  - Note: This is not required but can be considered a best practice for this type of device.
- Ensure that all best practices are followed for the physical network
  - The POE switch should have enough power to run all ports and account for in rush. (IE. A switch restart which would cause all readers to restart)
  - Cable length should not exceed 100 feet unless a POE injector is in use at the reader/controller