

### **7-106. Internet of Things (IoT) standard.**

This policy provides standards for Internet of Things (IoT) devices within the state network. IoT devices include but are not limited to door controls, cameras, and wireless sensors. While the benefits of IoT devices are numerous and compelling, it is important to remember that these devices have the potential to introduce significant threats and risks to the state network. IoT devices do not follow an international compatibility standard leaving them more exposed to vulnerabilities. The State of Nebraska must properly govern and manage deployment IoT devices.

The following are the minimum standards for IoT devices on the state network:

- (1) IoT devices must be approved by the Office of the CIO prior to being put on the state network;
- (2) IoT devices must be isolated from business operations on the state network;
- (3) IoT devices must support either username/password or certificate-based authentication;
- (4) IoT devices must support a minimum of TLS 1.2;
- (5) IoT devices must have the ability to be managed at the enterprise level;
- (6) IoT devices must allow for NTP and DNS to be set by administrators;
- (7) IoT device access must be limited to only what is necessary;
- (8) Network traffic for IoT devices should not be prioritized over normal business operations unless the IoT device impacts emergency services or public safety; and
- (9) Wired connections for IoT devices are preferred over wireless connections when possible.

--

**History:** Adopted on March 10, 2022.

**URL:** <https://nitc.nebraska.gov/standards/7-106.pdf>