

## **Technical requirements to access video:**

PennDOT offers video feeds from its traffic cameras to its business partners, either as streaming video via RTSP (Real Time Streaming Protocol) feeds, or as updating still images via HTTP URLs. In order to obtain the video feeds, the prospective partners must do the following:

1. Execute a Nonexclusive Video Sharing License Agreement with PennDOT
2. Establish a Business Partner Network (BPN) connection

The Nonexclusive Video Sharing License Agreement establishes the terms under which a business partner may access and use PennDOT traffic video. Any person or entity that is currently established within the U.S. can request this type of agreement with PennDOT.

To begin the process, prospective partners must complete the online registration form. A representative from PennDOT will respond back within 5 business days with further details. Be advised that the execution process for this legal agreement typically takes 4 to 6 weeks from the time the signed agreement is received by PennDOT. Further delays may occur if there are issues with the submitted application.

After the Nonexclusive Video Sharing License Agreement has been accepted by PennDOT's Office of Chief Counsel and begun the execution process, a PennDOT representative will contact the video sharing partner to establish a Business Partner Network (BPN) connection.

A Business Partner Network connection may be established in 3 different methods depending on whether the partner decides to purchase a circuit through their own vendor or by utilizing the commonwealth's telecommunications contract with Verizon. The Business Partner may also need to collocate a router at the Commonwealth Technology Center (CTC) in Harrisburg, PA. CTC is governed and controlled by the Governor's Office of Administration (OA). Regardless, in all three methods there will be a onetime controller setup fee for the setup of OA and PennDOT network devices. This will provide connectivity between the BP's router and the PennDOT video servers. These methods and the current associated costs are explained below.

Prospective Business Partners should note that these costs are estimates based on the current Commonwealth Communications Contract. They are provided for informational purpose only and subject to change. Actual costs will be given once the agreement is finished and proper documentation has been completed for the BP connection

### **Method 1:**

- Router owned by Business Partner
- Router is co-located at CTC
- Circuit leased by Business Partner

### **Associated Costs:**

- \$88.40 one-time charge to setup Business Partner controller

- \$380.00 Monthly Recurring Cost (MRC) for co-location
- Business Partner obtains a Wide Area Network (WAN) circuit from provider of their choice and pays the provider directly
- Business Partner provides, configures, and maintains their own router that will be collocated at CTC

**Method 2:**

- Router owned by Business Partner
- Router is co-located at CTC
- Circuit leased by Business Partner through Commonwealth Telecommunications Contract

**Associated Costs:**

- \$88.40 one-time charge to setup Business Partner controller
- \$380.00 MRC for co-location
- \$250.00 MRC for T1 service from Commonwealth Telecommunications Contract
- Customer provides, configures, and maintains their own router

**Method 3:**

- Router owned by Business Partner
- Router is located at Business Partner facility
- Circuit leased by Business Partner through the Commonwealth Telecommunications Contract

**Associated Costs:**

- \$88.40 one-time charge to setup Business Partner controller
- \$250.00 MRC for T1 service from Commonwealth Telecommunications Contract

The Business Partner selects one of these options by completing the forms sent by the PennDOT representative, submits the one-time setup fee, and establishes the connection. The PennDOT representative will be available to assist with any questions or concerns that arise throughout the process.

Once the Business Partner Network connection is established, it is the partner's responsibility to determine how much bandwidth will be necessary for their business needs. It is also the partner's responsibility to purchase and pay for any recurring costs of the WAN circuit needed to provide that bandwidth. The current streaming rate of the RTSP feeds is 192 kilobits per second (kbps) per camera. The current data rate for still images is on average 15kb per camera.

Once the forms have been submitted and the Business Partner has determined which connection method they will use, the following timeline will start:

- PennDOT or Business Partner orders circuit (1 week)

- Local Exchange Carrier (LEC) installs circuit (30-90 business days depending on the location of circuit, installation, and type of circuit)
- Business Partner tests circuit and confirms connectivity to PennDOT (1 week)
- After the connection is proven to be working PennDOT will work with its security team and OA to open up the OA BP firewall and the PennDOT MAN firewall (2 weeks)

The anticipated timeframe to configure Business Partner access (from submission of Business Partner forms to completion) may range between 60 and 120 calendar days depending on the length of circuit installation. Prospective partners should be aware that any delays that may occur during the license agreement execution process may also delay the access to the feed.