

How Turnium Simplifies Managing Municipal Networks

Managing municipal networks is no easy task. IT teams are charged with managing networks that connect local government services, sanitation, emergency response, public works and infrastructure, schools, utilities and civic offices where decisions are made, records are stored and the public interacts with city staff. They must ensure data is available where and when it is needed, securely and efficiently.

And unlike private organizations, civil servants and elected representatives are answerable to local citizens – meaning this connectivity must all be accomplished on a limited budget, with limited staff, and be available 24/7.

Traditional Solutions Fall Short

Concerns about making networks and the associated services and applications highly available have been addressed by a variety of solutions in the past.



Dedicated hardware links



Multiprotocol Label Switching (MPLS)



Virtual private LAN Service (VPLS)



Wireless broadband



Dark fiber

But while these technologies have facilitated better networks, municipalities are still faced with making more services more available to more constituents. As a result, municipal IT teams have had to become experts in a variety of areas and deal with topics such as those listed below that distract them from their primary duties:



Implementation and project management



Complex networking



Justifying initial capital investment



Ongoing maintenance and support contracts



Connectivity costs - for both primary and backup circuits

Traditional solutions strain municipal IT teams and can force them to make tradeoffs.

During initial deployment, cities are forced to choose between:

Slow, inefficient networks that are inexpensive but offer inferior service and unreliable access to critical infrastructure

Spending an outsized share of limited resources to deploy and maintain a complex, costly network that will support rapid, efficient activity

When changes are needed, municipalities must accept either:

Quick and dirty additions that are unstable and insecure, introducing new risk to private or sensitive data

Significant delays while necessary hardware and software are configured and integrated into the network

Turnium SD-WAN: A Better Way

Authorities looking to simplify managing municipal networks have an alternative. Complex, difficult-to-maintain networks with dedicated links can be replaced with SD-WAN solutions such as those offered by Turnium:

 <p>Cloud-based on-demand network management</p>	 <p>Replacement of VPN-based solutions with automated software-defined networks</p>	 <p>Built-in failover to keep data and critical data and sessions connected</p>	 <p>Simple deployment, management and control with end-to-end visibility of network performance</p>
 <p>Hassle-free connectivity and load balancing with reduced time to deploy, manage and troubleshoot</p>	 <p>Integration of existing private L2 wireless and other networks</p>	 <p>Prioritization of critical data and high-availability using multiple carriers and transport methods</p>	 <p>Internet-based infrastructure in place of costly dedicated links and hardware</p>

Use Cases for Turnium



Emergency Services

Integrate existing connections, broadband, IoT, mobile hotspots to maintain speed and reliability and eliminate delays caused by data translation between disparate technologies —without raising costs.



Municipal Fleet Networking

Connect all vehicles to a single network using WAN and LTE technologies for seamless, transparent oversight to track locations, routes, speed, breakdowns and accidents.



Temporary, Remote or Unmanned Sites

Many worksites need on-site management connectivity to central offices on the main municipal network but can be challenging to access or maintain because of their location.

The Ultimate Solution for Managing Municipal Networks

Turnium's managed SD-WAN solution takes the complexity out of managing municipal networks by automating and simplifying formerly complicated and challenging networking tasks and eliminating dependency on existing infrastructure.

Traditional Solutions

- High costs for hardware, installation and maintenance
- Requires expert personnel on staff

Turnium Trusted Network as a Service

- Minimal expense
- No costly hardware or connectivity upgrades
- No need for expert staff
- Increased flexibility
- Facilitates greater responsiveness

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