

# Small Cell as a Service

## In-building Network Extension



- Persistent Telecom has developed a virtualized mobile network platform that can be deployed to manage small cell, in-building solutions.
- In building small cells are installed leveraging existing Ethernet infrastructure, in the same way Wi-Fi hot spots are connected.
- A separate small cell VLAN can be configured to facilitate security and quality of service (QoS).
- When compared to DAS, small cell deployments reduce costs dramatically.
- Small cell access points are low power transmitters, requiring very little electricity.
- PTI's small cell installations are software defined and managed by a single computer requiring minimal space, power and cooling.
- Small cell networks are easily upgraded, simply connecting the next generation radio cells to the existing cabling.
- PTI's small cell networks can include numerous features for enhanced security or emergency use during crisis situations.
- PTI's virtualized network platform can support business continuity with the addition of a satellite uplink for backhaul of voice, data and text.



*Spidercloud Radio Node*

### PTI Small Cell systems include:

- Mobile Switching Center (MSC)
- Base Station Controller (BSC)
- Operations Maintenance Console (OMC)
- Short Message Service Center (SMSC)
- Asterisk PBX
- Wireless Security Policy Server

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- PTI Small Cell as a Service can act as an independent software defined cellular network.
- Systems can be configured in a Public, Private or Hybrid cloud model.
- Our software platform is compatible with most vendors 3G/4G/LTE access points.
- PTI can integrate this software defined platform with existing DAS infrastructure providing a quick, low-cost upgrade path to LTE and beyond.
- For security, military grade AES encryption is built into our software platform.
- There is no requirement for demarcation of the carriers' network on site. Our platform delivers the traffic to the carrier over the Internet or through existing building fiber.



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