

Audience

- WISP Operators
- Municipalities
- Hotzone Operators

SmartCity® Framework

- Computer Resources
- Fundamental Servers
- Client Software
- Operational Services

SmartCity® Wireless

- High Quality
- Performance
- All-In-One Device
- NMS Software

SmartCity® Alliances

- HellasSat
- IBM/Cisco
- HP
- Antcor
- Local Partners

Fundamental Servers

- Distributed Operation
- Operation Domains
- > 5000 Users
- 24x7 Operation
- No Back Office
- Unique Payment Method

iCard – Payment Method

- International Operation
- Customizable
- Any Currency
- Any Price

SmartCity® Applications

- Internet Access
- PIA-PayKiosk
- PIA-InfoView
- PIA-NetSpooler
- PIA-HotSpotVPN
- Remote Control
- Pocket ERP
- OpenHire
- MissionMode
- Security Monitoring
- Document Management
- OpinionWare
- Business Webcam
- Enterprise Chat & IM
- Custom Browser
- Surf Control
- Cisco IP Telephony

Introduction

Municipal governments are under pressure to improve community services while controlling, or even reducing, budgets. Local building-to-building telecommunication costs may be more than \$50'000 annually and this number may not include acquisition and maintenance of individual PBX systems.

SmartCity networks will provide centralized SIP & Cisco Telephony servers for no extra costs giving the municipalities the choice between the most advanced IP telephony systems available today.



Benefits Of IP Communications In A SmartCity Network

SmartCity provides the framework for the development of a global IP network and places the foundations for the deployment of the all-IP telephony. IP Communications in a SmartCity network delivers significantly higher levels of automation to streamline the automation deployment, management, and ease of using communications services. These benefits extend to all applications working together as a system to provide improved resilience, security, and higher quality of service.

Cisco System Compatibility & Increased Availability

Large SmartCity network deployments require a careful design and testing of all applications. DTLINK Inc. and Cisco engineers have tested and certified the compatibility of both systems and came with a detailed implementation guide that will cover all the municipality needs and system subscribers. Combined inherent availability features of the Cisco IP telephony system and SmartCity network high availability options will ensure an overall system reliability.

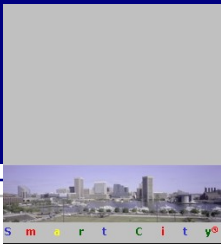
SmartCity networks using a data center will provide for free a Cisco Call Manager for 100 users (expandable to 300 users), a 5-seat Call Center and a Voicemail for 15 users.

SIP Server. The Open IP Telephony Standard.

Every SmartCity network using a data center will provide for free an IP telephony server based on the Session Initiation Protocol (SIP), offering a full array of call-routing capabilities to maximize network performance in both small and large SmartCity deployments. The SIP server provided delivers high-performance call processing, enabling municipalities to quickly and reliably deploy large-scale packet-voice networks. It can support a variety of different SIP server functions, including Redirect Server, transaction stateful or stateless Proxy Server, and Registrar (R).

Key benefits:

- Auto Attendant
- Automatic Route Selection
- Call Forwarding, Call Hold, Call Transfer, Call Park, Call Queue
- Conference (Multi-Way Calling)
- Music-On-Hold, Mute
- Voicemail, Voicemail Forwarding, Notification, Waiting Indication
- Voice mail messages retrieval from phone
- Supervising (Call Monitoring)



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Questions & Answers

You are proposing two IP telephony systems. Which one should we adopt?

Both systems provide an excellent IP telephony infrastructure. The Cisco IP telephony is a proprietary system that is developed and supported by Cisco. The SIP telephony is an open standard supported by many manufacturers. The quality of both systems is excellent and they are both certified compatible with the SmartCity network.

We have several buildings. How can we connect the existing PBX systems?

You can connect existing PBX systems through voice gateway devices. A voice gateway is a device that allows you to make telephone calls over a high-speed connection rather than through a regular telephone outlet without having to go through your computer. The device or gateway, which is about the size of a video cartridge, is plugged into your SmartCity network. You then attach an ordinary cord or cordless telephone to the gateway and make calls just as you would with the plain old telephone system. On the SmartCity network, your call is carried in packets using Voice over Internet Protocol (VoIP).

How can I have a central PBX system and have all outgoing calls from a single point?

In this case, you will have a central PBX system and several voice gateway devices in the remote locations with IP phones. In the central Call Manager or SIP proxy server located in the SmartCity data center you will have parameter the call routing and redirect all outgoing calls to the central PBX system.

How can individual subscribers use the municipality IP telephony system?

Individual subscribers will be able to use the municipality IP telephony system through IP phones. The CPE device will connect the internal network to the municipality wireless network and the IP phones will be connected like all other PCs to the internal network.

Are there any wireless IP Phones?

Yes. There are many wireless IP Phones models adapted to both the Cisco IP telephony and the SIP

What should the users dial to access an internal IP phone?

Depending on the system configuration, the users will be able to dial *8 followed by the internal IP phone number in order to access another IP phone.

Can users call other SIP phones?

Yes. In this case they should only know the SIP phone address.

How can users receive incoming calls?

Users will be continue receiving incoming calls like before from the existing PBX. Users with IP phones only will be receiving incoming calls as they will be redirected from the central PBX.

SmartCity Representative In Your Area