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Smart Home System T-5000

Video Access Control, Home Alarm and Video Surveillance

Available at your smartphone / tablet, anywhere and anytime!!!

TCP/IP
Full IP Platform

Mobility
Compatible with Android and iOS

Cloud
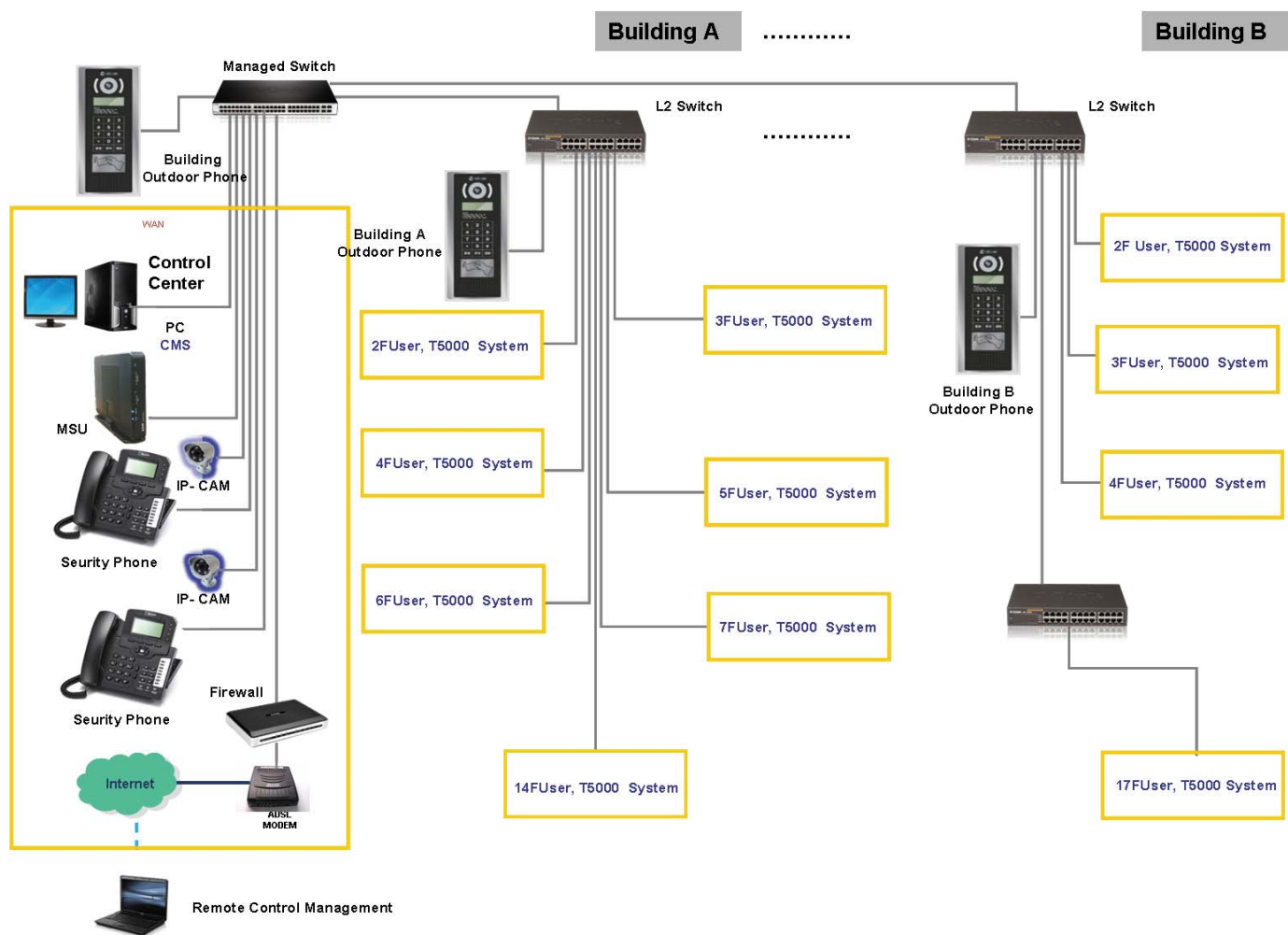**Provide full Community Services**

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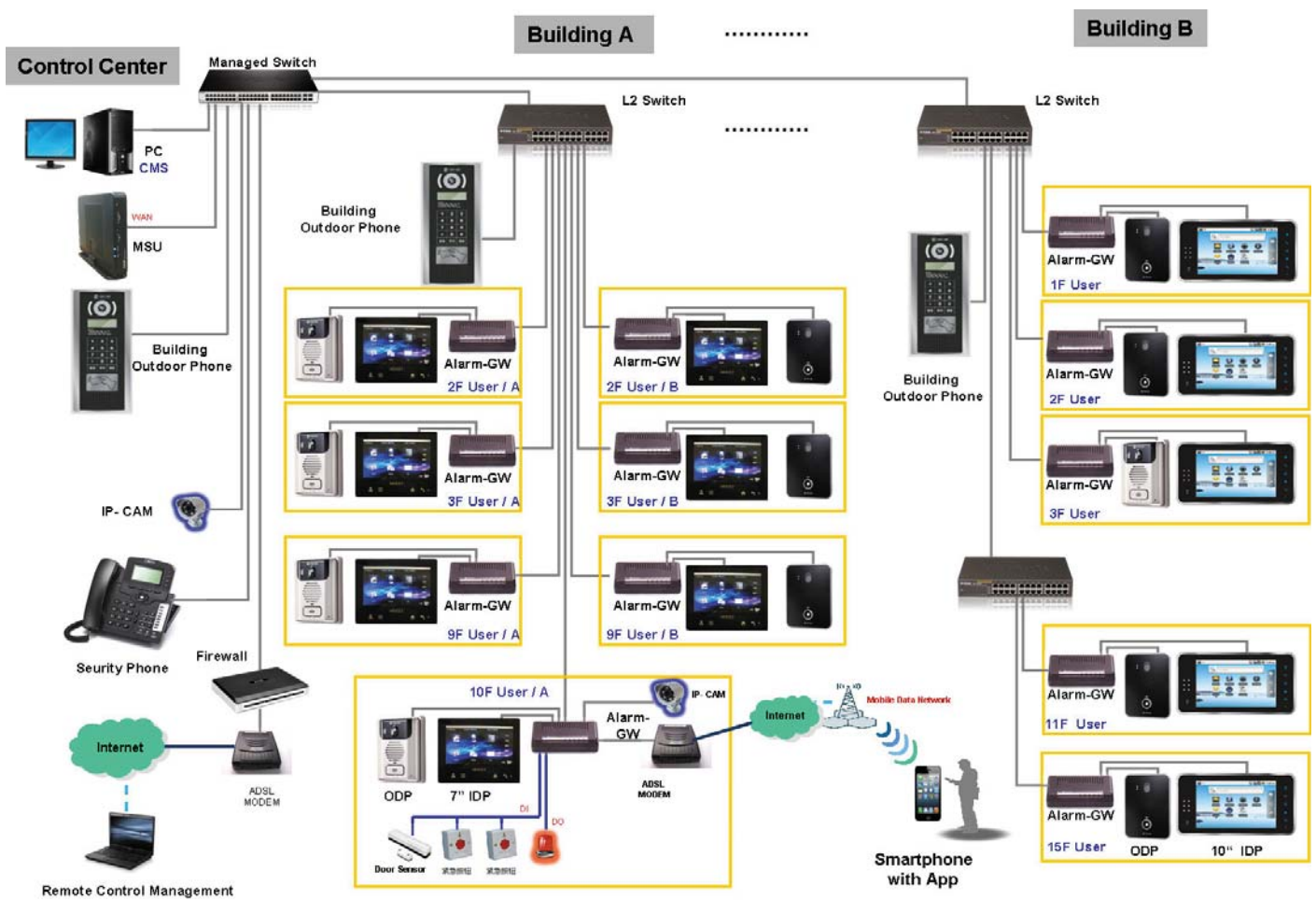## T5000-Smart Home System

Product Description

1. System is designed for residential building developed by a new generation of IP smart home networking platform that can support up to 5,000 households, providing tenants Video Access Control, Video Surveillance and Home Alarm modern smart home functionality required.

2. System integrates mobile communication technology, users can use the terminal or the demands of smartphones and tablet, just download Tecom APP developed software to your smartphone or tablet (Android, iPhone, iPad), whether tenants in the house or on the go, can keep abreast of the situation at home (visitors, security, remote monitoring)

3. Stackable system architecture design, suitable for single-family or Multi-Family.

4. System also supports Community property features that provide "community bulletin", " on line Order", "community shopping", "surrounding district offers", "equipment repair" function

T5000 System Block Ddiagram

T5000 System Diagram

System Components

Alarm Gateway (A-GW)

Central Controller and Interface for all Smart-Home functions, Input ports for motion, gas smoke sensors, Out ports for remote alarm dock-control, gas valve, sprinkles. Provides integration with smart phones/tablets via Internet

– Processor : RT3052 @ 384MHz
– Memory : 64MB SDRAM, 16MB Flash
– Providing DI x 8, DO x 4
– 1RS485 x 1, interface for alarm/security components or smart home facilities.
– 1Networking connectivity – WAN x 1, LAN RJ11 x 4
– Supported protocols: SIP 2.0 (RFC 3261)/TCP/IP/ UDP, RTP, HTTP, ARP, ICMP, DHCP, DNS, TFTP, NTP

Touch-Screen In-door Display 10" (10"Indoor Phone, IP5800)

Built-in Full-Duplex Speakerphone, Direct Talk to Door Phone Monitoring Perimeter IP-CAM, Visitor Photo-Storage In-Door Page, Receiving and editing messages from Community Server

– Processor : Freescale iMx53

– Memory : 512MB DDR3, 2GB NAND Flash

– 1024 * 600 / touch screen, resolution

– Android 2.2

– 1 * USB 2.0
– 1 * microphone, Hands free
– 2 W speaker
– Quick access buttons x 5
– 1 * Reset hole
– 1 * HDMI
– 1 * Ethernet Interface
– 16G / SD card reader x 1, max for 16G
– Full duplex hands free speaker phone

System Components

Touch-Screen In-door Display 7" (7"Indoor Phone, IP5807)

Built-in Full-Duplex Speakerphone, Direct Talk to Door Phone Monitoring Perimeter IP-CAM, Visitor Photo-Storage In-Door Page, Receiving and editing messages from Community Server

– Processor : Freescale iMx53
– Memory : 512MB DDR3, 2GB NAND Flash
– 800 * 600 / Touch screen, resolution.
– Android 2.2
– 1 * USB 2.0
– 1 * microphone, / hands free speaker phone
– 1 W speaker
– 1 * power switch
– 1 * Reset hole
– 1 * Ethernet Interface
– 16G / SD card reader, max 16G
– Full duplex hands free speaker phone.

Video Door phone Home-Version

HD Video and Audio, Full Duplex Speaker phone, Night-light Compensation, RFID and Door Lock Control

– 640 * 480 / Quality CCD camera , resolution up to 640 x 480 dpi.
– With 2 LED lights for night vision.
– 1 * ISO14443 Card Reader and RFID sensor card
– Door lock access circuitry for external power door lock, mainly application for access control.
– Speaker(8Ω/1W) x1, Microphone(-62±2dB) x1
– 1 * Ethernet Interface(10M/100M)
– Supported protocols: SIP 2.0 (RFC 3261)/TCP/IP/UDP, RTP, ARP, ICMP, DHCP, DNS, NTP
– Power supply: PoE or external 12V power supply
– Audio codec: G.711 (A/u-law) , G.729
– Audio quality: packet loss concealment, echo suppressor
– Video codec: H.264 baseline real-time video codec (at CIF or D1 resolution)
– Up to 10 frames per second.
– Automatic firmware and configuration update via TFTP

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System Components

Video Door Phone Building Complex Version

Touch Screen Dial Pad, Hard Key for Attendant, Direct Page Color-LCD Display, Water-Proof

– Processor : ARM Cortex A8 with 1GHz
– Memory : Memory : 512MB DDR3, 2GB Flash
– Quality CCD camera , resolution up to 768 x 494
– With 6 LED lights for night vision.
– 1 * ISO14443 Card Reader, and RFID sensor card
– Door lock access circuitry for external power door lock, mainly application for access control.
– Speaker(8Ω/1W) x1, Microphone(-62±2dB) x1
– 1 * Ethernet Interface
– IR detection sensor for range of 1 M detection of human object and turn on backlight of key pad.
– Graphical display array 32 x 140 and 15 keypads.

Security Guard/Attendant Phone

Paging, Residence alarm indications, Hot line to Main Door Phone

– Processor : BCM 1113
– SIP (RFC3261) V2
– LCD: 128 x 64 pixels, backlit optional
– Codec: G.711 a-law/μ-law, G.729A*, G.723.1*
– 1 LAN + 1 WAN
– DTMF tone generation & detection
– Out-band DTMF relay (RFC-2833) support
– PoE 802.3af support
– Speakerphone, Headset
– Soft keys, fixed function Keys

System Components

Central Host (Building or Community)

Host server for multi tenants solution

– Processor : BCM 6369 + Mindspeed 82351

– SIP proxy

– WAN Interface: Gigabit Ethernet

– LAN Interface: 1 Ethernet (10/100Base-T)

– 8 SIP Trunks

– 1 USB 2.0 port

– Support up to 200

CMS (Control Server)

Central management system. Property Management Software, Community e-Commerce

Software

– Management Software

– Households data management capabilities

– Editing device information and settings functions

– Provide information editing and publishing features

– Check that the tenants and occupants message data has been read and has been sent to.

– Provide alarm log for inquiry and management.

– Provide system configuration function.

– Provide various building entrance door switch status inquiry

– Provides current system connection status inquiry

– Provides remote access software upgrade.

– PC / system - PC

Smart Phone/Tablet APP

Remote Video/Audio Speaker, Remote Security monitoring, Paging other residence,

Messaging

– Video intercom

– Surveillance

– Group page function

– Message delivery function.

– Alarm security function.

– system setting function.

– Hardware requirement Android 2.2 above &
   iOS 6 above smart phone and tablet

T5000-Smart Home System

T5000 Major Features

- Live video and talk intercom function.
- Alarm warning
- Surveillance

System Scenario

Video Intercom and Door Access

Utilizing the system can view and talk to the visitor from your mobile or hand held PAD.
Owner can access from the remote site.

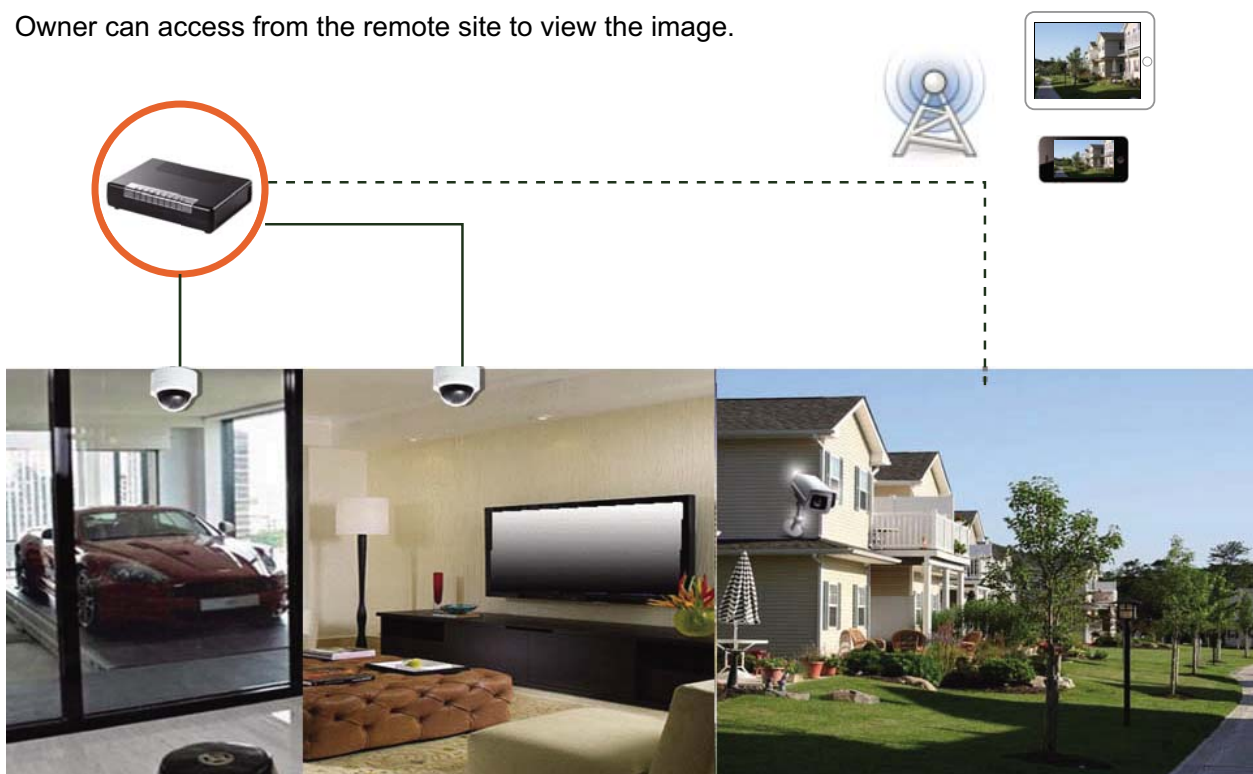Visitor stay in front of house door

System Scenario

Security Alarm

Owner can receive home alarm message anywhere and anytime.

Smoke Detectors

Window Detectors

Door Sensors

Emergency Clinching

Video Surveillance

Owner can access from the remote site to view the image.

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System Features

Intercom
- Indoor video intercom
- Using smart phone and outdoor phone for video intercom to 10/7" indoor phone
- Community video intercom
- Video intercom between resident indoor phone and guard phone.
- Video intercom between resident indoor phone and building door phone
- Video intercom between building door phone and guard phone
- Emergency inter call with guard phone
- Community paging
- Providing resident paging code and address paging

Surveillance
- Resident surveillance to the outdoor phone
- View live image through 10/7" indoor phone
- View live image through smart phone
- Providing video and voice surveillance function through the building outdoor phone.
- View live image through 10/7" indoor phone
- View live image through smart phone
- Using IPCAM/DVR for the surveillance
- View live image through 10/7" indoor phone on IPCAM/DVR
- View live image through smart phone on IPCAM/DVR

Door access control function
- Door access through indoor phone
- View live image, alarm, door access through 10/7" indoor phone when user in talk mode
- Door access through smart phone
- View live image, alarm, door access through smart phone when user in talk mode
- Door access by RF ID card
- Using the RFID(Mifare) for door access
- Door access by security guard
- Security guard press the resident number and push building door for opening

Alarm security access
- DI/DO function
- Provide DI x 8, DO x 4 for wire sensors.
- Provide DI x 16, DO x 16 for z-wave protocol devices access.
- Remote access(each user needs an e-GW)

Alarm security function setting
- Re-naming function
- User modes – away; at home; night; temp ; dis-arm
- Home automation mode can be linked with alarm/security mode

System Features

Alarm function
- When the alarm trigged, households can send a message to the indoor unit, smart phones, security guards and Community Management System
- Control devices or camera can be linked when alarm is trigged

Visitor image log
- Visitor image log will be taken 5 frames, 1 frame per second
- Provide visitor image inquiry search

Bulletin function
- Community message broadcast
- Message read
- Message read and delete

Family message function
- Voice message recording
- Listening to the voice message
- Message delete

Outdoor phone function
- Night view function
- Door open indication
- RFID card access
- RFID card voice response

Building outdoor phone function
- Night view function
- Door open indication
- RFID card access
- Keypad index function
- IR sensor function to activate the keypad backlight automatically
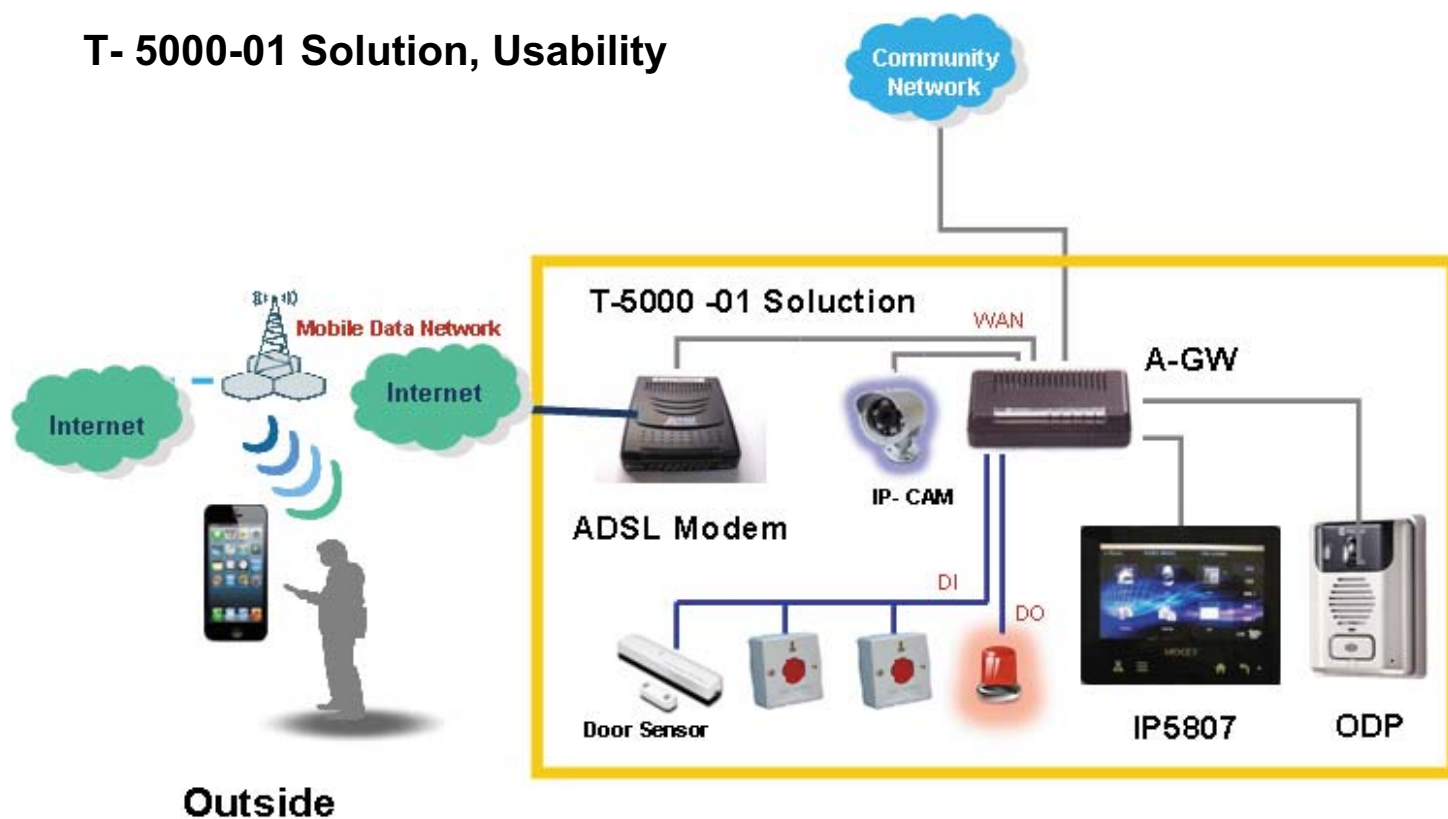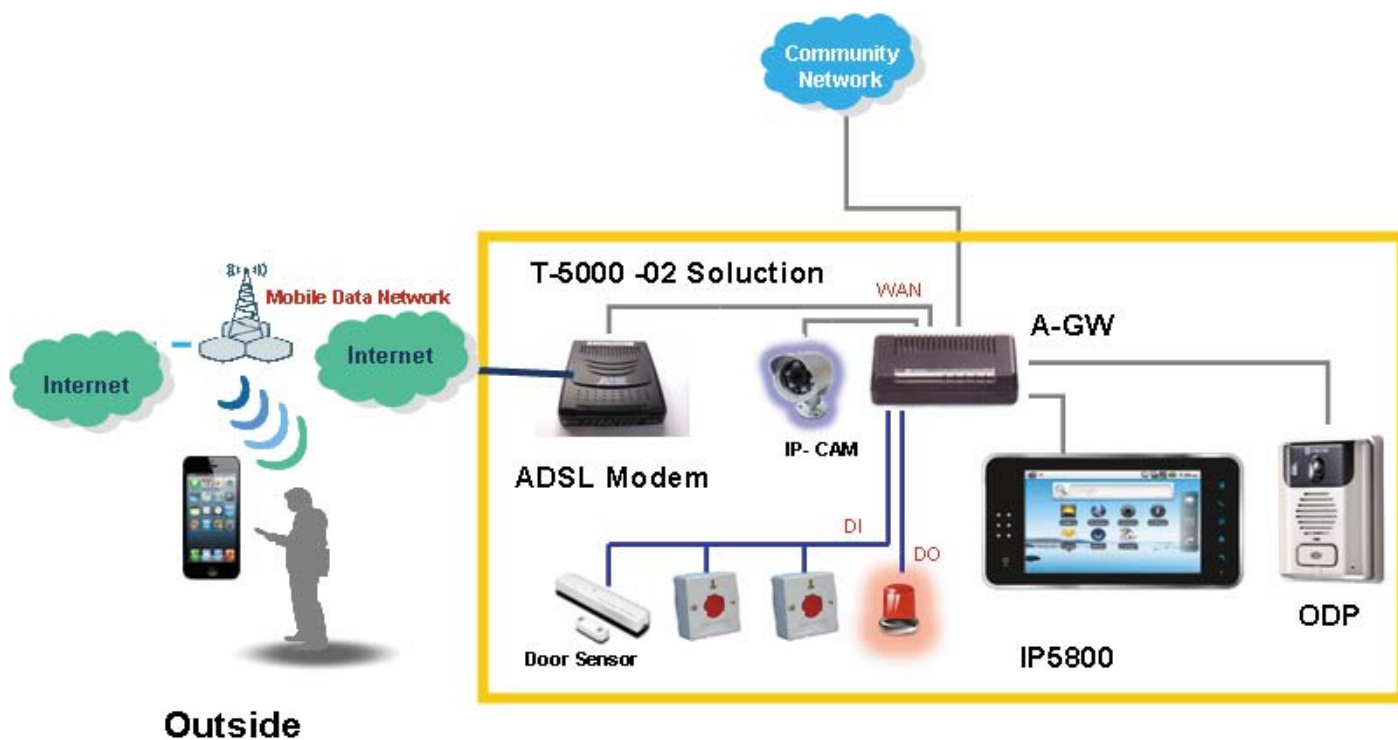- Volume control
- Camera contrast tuning

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Suggest Solution

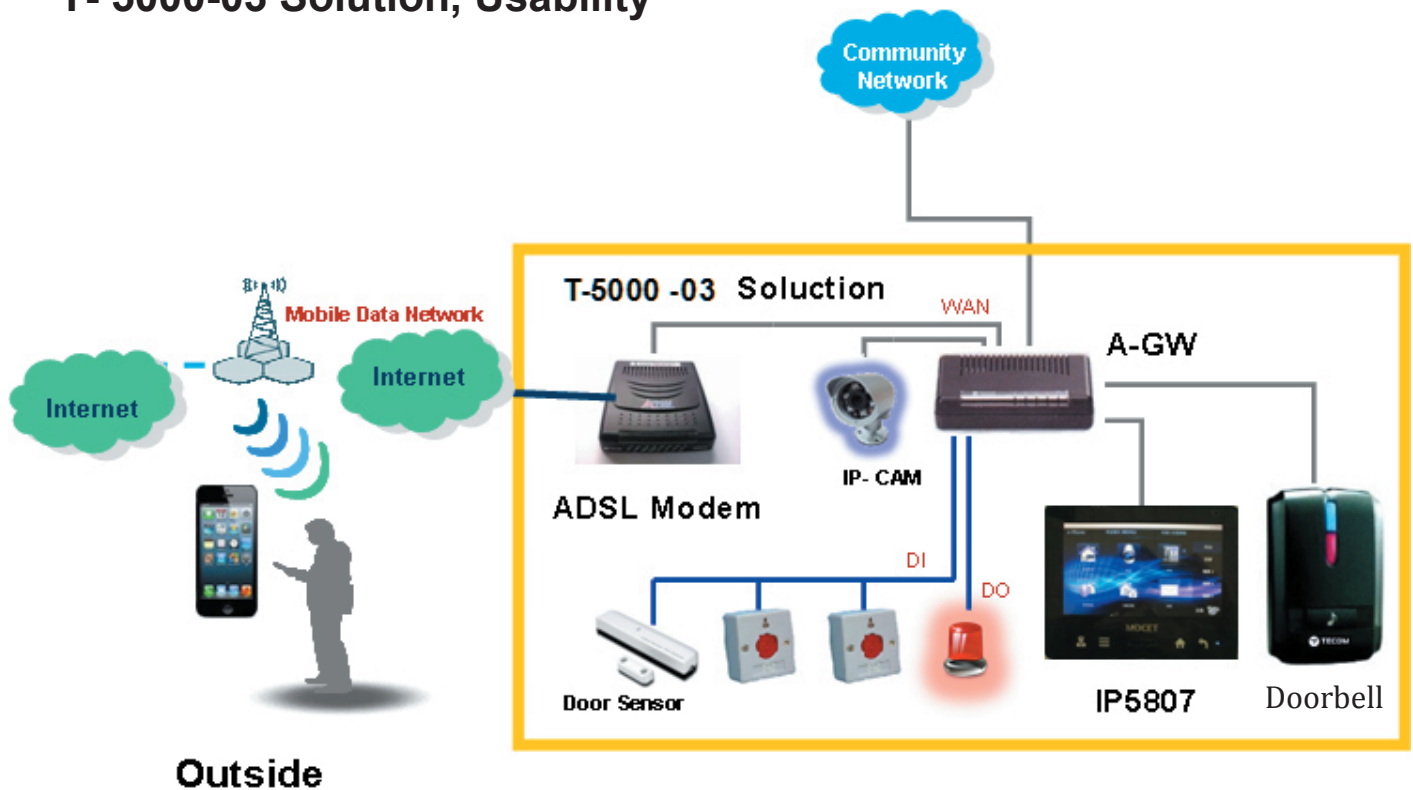| Solution	Key Components	Key Features
T-5000-01	A-GW + ODP + IP-5807	- Mobile Video/voice intercom (resident door phone, building door phone) - Alarm access - Message broadcast - Community service
T-5000-02	A-GW + ODP + IP-5800	- Mobile Video/voice intercom (resident door phone, building door phone) - Alarm access - Message broadcast - Community service
T-5000-03	A-GW + IP-5807 + Doorbell	- Mobile Video/voice intercom resident door phone, building door phone) - Alarm access - Message broadcast - Community service - Visitor notification
T-5000-04	A-GW + IP-5800 + Doorbell	- Mobile Video/voice intercom (resident door phone, building door phone) - Alarm access - Message broadcast - Community service - Visitor notification
T-5000-05	A-GW + IP-5807	- Mobile Video/voice intercom (resident door phone, building door phone) - Alarm access - Message broadcast - Community service
T-5000-06	A-GW + IP-5800	- Mobile Video/voice intercom (resident door phone, building door phone) - Alarm access - Message broadcast - Community service

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T- 5000-01 Solution, Usability
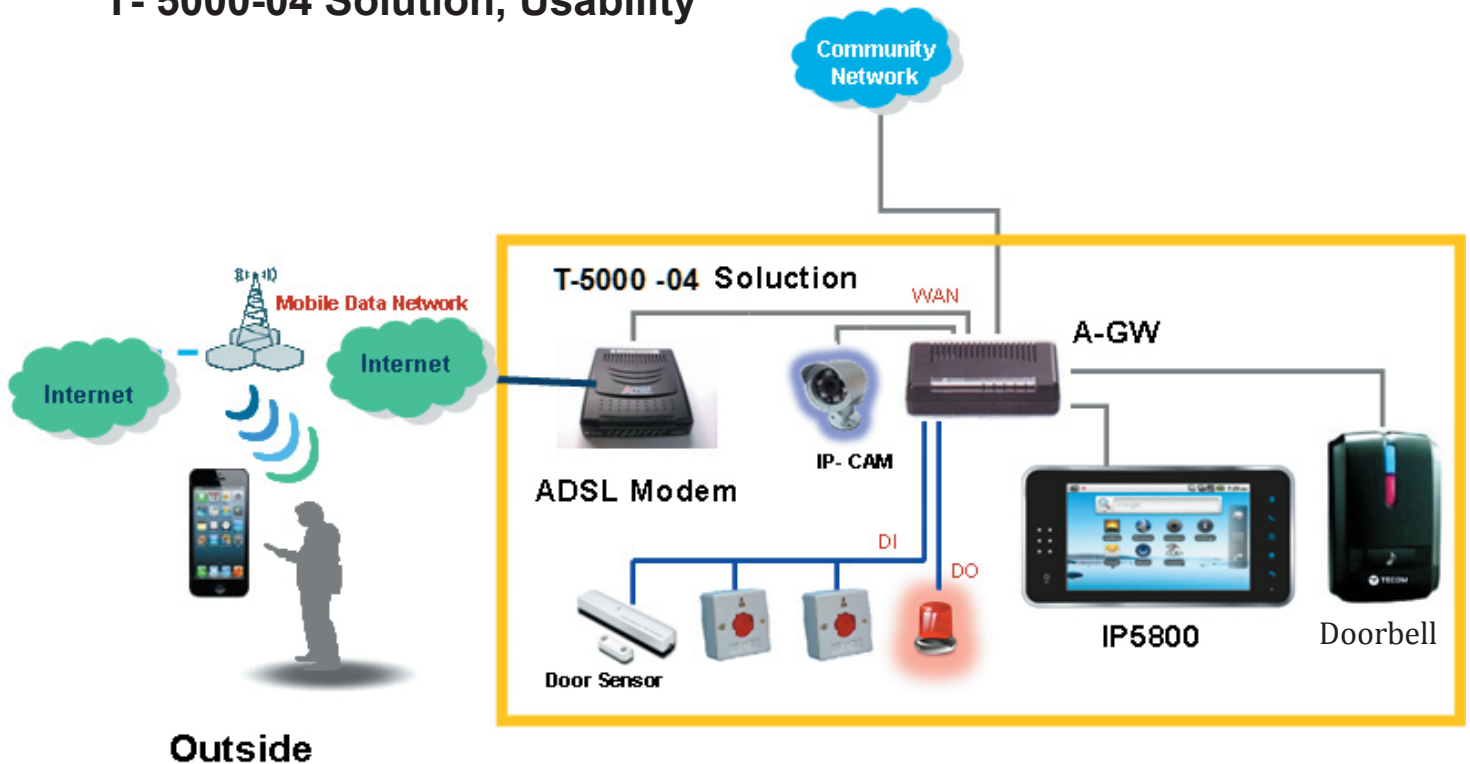

T- 5000-02 Solution, Usability

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T- 5000-03 Solution, Usability

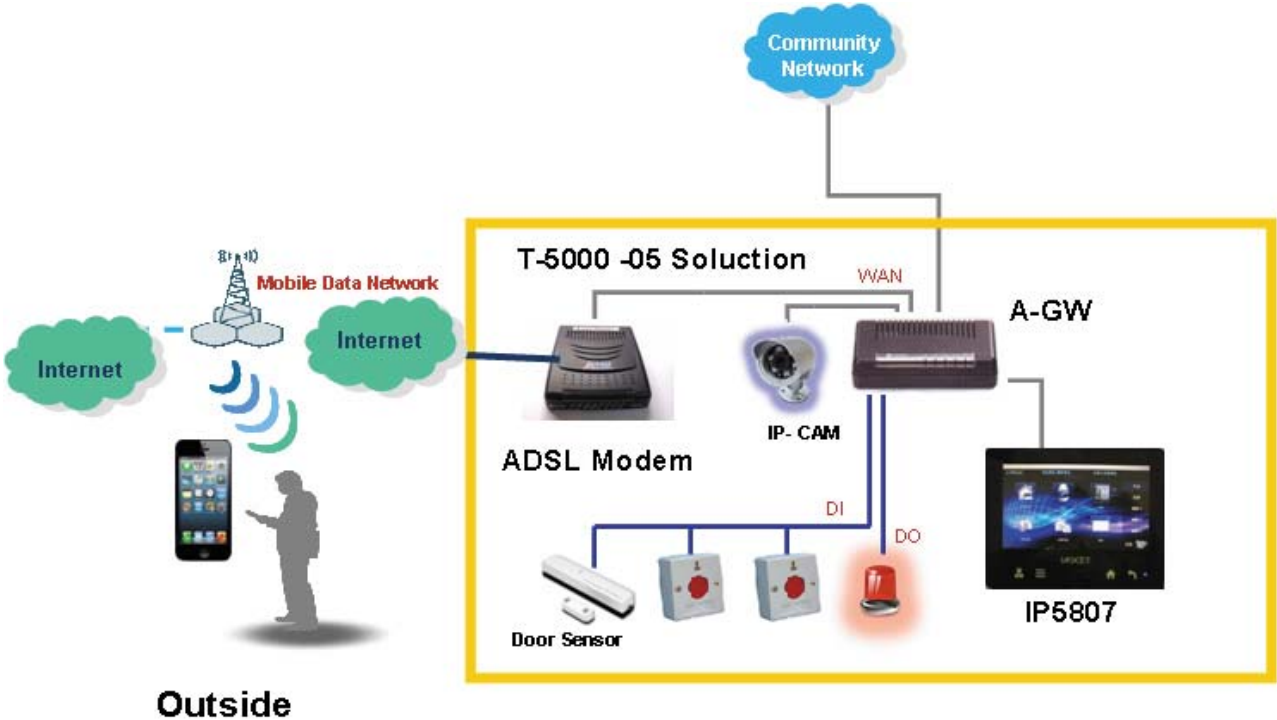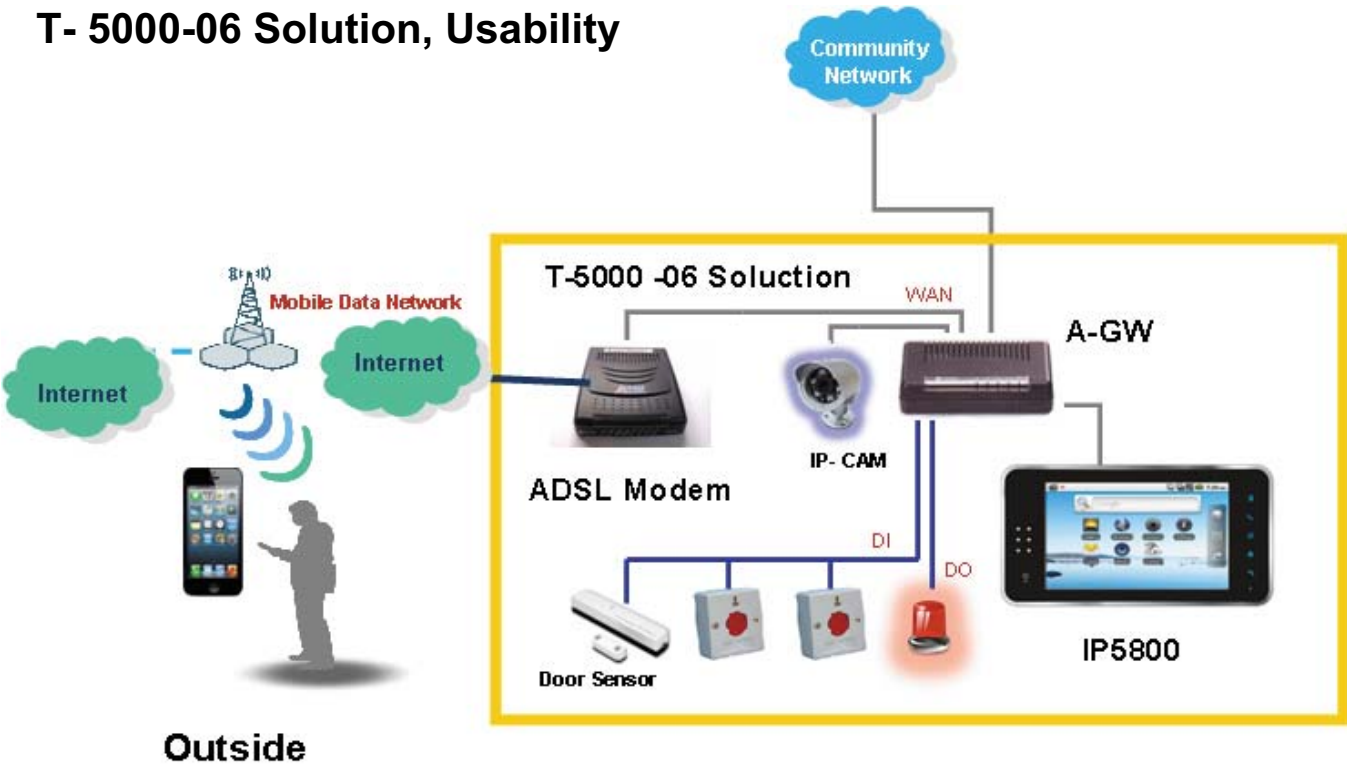## T- 5000-04 Solution, Usability
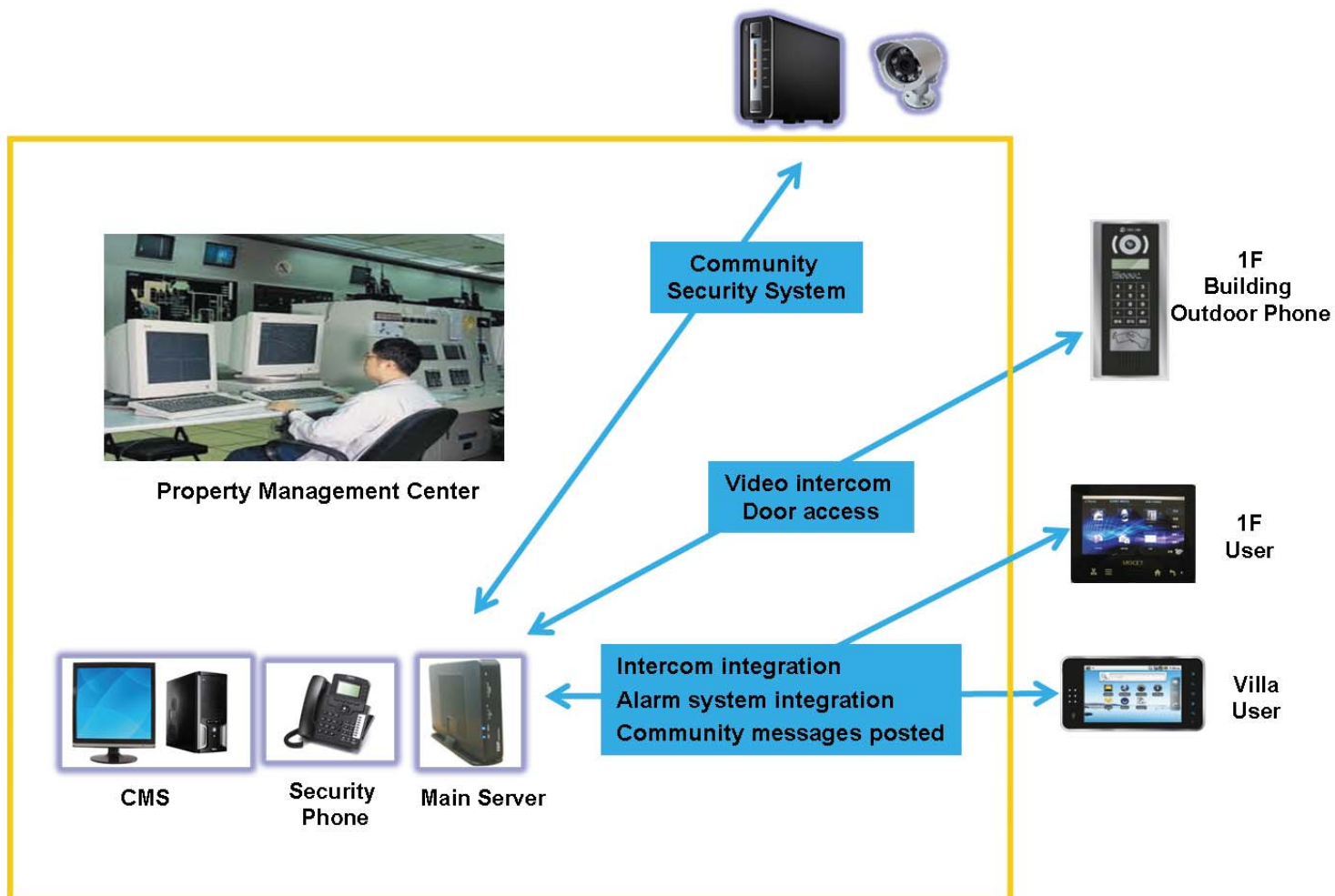
T- 5000-05 Solution, Usability

T- 5000-06 Solution, Usability

Central Management system solution, usability

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For more information about Smart Home System
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