

The next generation communications platform — iPECS UCM

iPECS is an Ericsson-LG Brand







ICT (Information & Communication Technology) is converging today's communications across all media types - voice, data, video, and applications - over one network, allowing most companies the ability to transfer to a unified infrastructure using the same communications language.

iPECS UCM employs an easy and flexible migration into today's unified communications environment to help increase revenue, save costs and enhance productivity.

All-IP Enterprise Communications Solution

iPECS UCM is an All-IP communications platform for medium and large enterprises iPECS UCM provides IP telephony, various multimedia, applications, and mobility services over an IP environment. Its innovative design enables organizations to deliver the most reliable, flexible, and secured communications. iPECS UCM's IP architecture allows easy monitoring and managing of remote platforms through Web Management System and SNMP based Network Management System.

Distributed Architecture across Multiple Locations

iPECS UCM employs a distributed architecture across an IP Network to communicate transparently without geographic limitations. Users at headquarters and branch offices have access to the same features and functions delivered by the central call server. This architecture enables you to deploy a flexible network and configuration to fit any business needs, from branch offices, mobile offices, road warriors, hosted/managed services to cloud based services.

Highly Reliable Solution for Continuous Service

iPECS UCM redundant call server provides a strong survivability against LAN/WAN failure or main office call server failure with redundancy using Active-Standby or Active-Active configurations. iPECS UCM's geographic redundancy guarantees availability of communication even if the primary site fails. Additional local survivability option (LCM) for branch offices also offers continuous service to ensure your business operates smoothly.

Best Platform for Unified Communications

iPECS UCM is the best platform for you to deploy a Unified Communications solution in a cost effective way. iPECS UCE, together with iPECS UCM, brings phones and applications running on your desktop or mobile phone/tablet PC providing calls, IM, file sharing for collaboration as well as video conferencing. Open API such as RESTful API and CSTA (Computer-supported telecommunications applications) interface for 3rd parties can integrate iPECS UCM telephony functions into their UC solution. With easy integration, you can add the best optimized UC services to any office environment with all applications.

Future Ready Platform

iPECS UCM offers an evolutionary path for your digital transformation journey, delivering various ways to migrate from your current to your future communication needs. From traditional PBX functions to the modern functionalities such as Hot Desk and Mobile Extension, iPECS UCM provides rich features enriching your communications environment. Its flexible and open standard interface also allows for customizable configurations with any applications, services, and end-points. iPECS UCM's Hosted/Centrex solution on All-IP platform with centralized management meets the today's requirements on cloud environment.



Values and Features

Full and Flexible Scalability

The server-based system with various modular-type gateways working on a IP-backbone offers full scalability up to 960,000 ports with a S/W package from medium to large enterprise environments.

- Begin small and grow as you want, S2K/S4K/10K/30K/60K /120K/240K/480K/960K call servers based on capacity
- Scale up to 960K users on Active-Active mode with 8,192 local survival branches
- Support maximum 65K tenants
- iPECS UCP call servers can be used as a LCM

High Reliability

iPECS UCM ensures consistent operation of the system in case of network failure or natural disaster, which is especially important for large enterprises including banking, finance, government or managed/hosted service.

- Local and Geographical Redundancy (16 servers / 8 regions)
- Redundancy for Ethernet Link, Power, CTI Link, SMDA Link
- · Local survivability and PSTN Fail over for WAN fail
- Backup Call Server for GW and IP Phone in case LCM fail
- Active-Active Redundancy (16 node / 8 node groups)
 with per node redundancy (4 per node / max. 64 servers)

Maximized Security on IP Communications

iPECS UCM is a proven secure communication solution with encryption, enhanced authentication and access security.

Security Management on Call Server

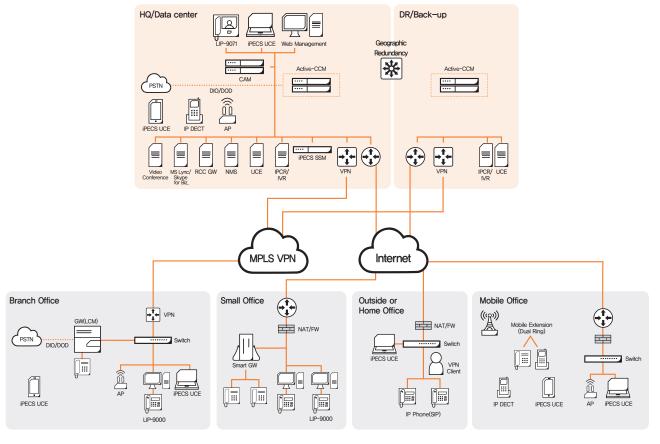
- System access control using Access Control List
- · Subscriber authentication

Encryption between IP-PBX and IP Phone

- Protocol: TLS, sRTP
- · Algorithm: AES(Global standard)
- Key Exchange: ECC, RSA
- RSA Certificate: DER, PEM

IP Phone VPN and 802.1x

- Built-in IP Phone VPN client ensures secured communication and reduces security cost
- And using port access control protocol, 802.1x, you can protect your companies network for safer communications.



Beyond Investment Protection

Your investment in other iPECS systems or phones can be utilized to work with your iPECS UCM, which helps to reduce your overall investment for new solutions and even creates new synergy.

- Keep using iPECS UCP gateway module, iPECS eMG80, common applications and end-points
- Keep benefits of desktop phone features with MS Lync/SfB by using iPECS RCCV solution with low cost
- An easy extension of the 3rd party services

Enterprise FMC for Seamless Communication

FMC(Fixed Mobile Convergence) combines wired and mobile communications to increase mobile efficiency. Enterprise FMC(eFMC), which uses mobile phone outside and Wi-Fi inside of the building, allows a personal mobile phone to be used as an extension. Since the mobile phone seamlessly operates as the users one number, prompt response is available for customer calls or other requests, improving customer satisfaction and unifying communications on a single device.

- The advanced Mobile Extension feature is set on iPECS UCM and iPECS UCE mobile clients
- Improvement of work efficiency
- Communication cost reduction

Value Added Features for Customization

iPECS UCM provides rich features beyond traditional telephone systems enriching customer's experience even further. In addition to fully featured internal business communications, iPECS UCM incorporates basic Auto Attendant/Voice Mail, Least Cost Routing, Automatic Call Distribution, Web Management, VoIP Network Interface and customized Hotel solution.

Easy Local/Remote Management

HTML5 technology is applied to the Web Management tools and it gives the same user experience as the native application in terms of GUI and procedures.

WMS (Web Management System)

- Web based IP Telephony management tool
- · Manage station, trunk, system error and 3rd party equipment

eNMS (Enterprise Network Management System)

- SNMP based IPT monitoring tool including servers, gateway modules, phones and data switches
- Error monitoring and real time notification

eVQM (Enterprise Voice Quality Monitoring)

 Tool to monitor, troubleshoot, resolve, and prevent quality issues such as Talk delay, Packet loss, Jitter, Signal noise etc

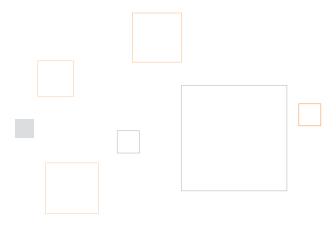
eCSM (Enterprise Call Statistics Management)

- Reporting tool for real-time extension / trunk / attendant statistics
- Comprehensive statistics data for Total/per node/per route group/per prefix/per trunk

Open Interface with Various Applications

There's no limitation to integrate applications through the standards such as SIP, TR.87, TAPI, RESTful API, CSTA CTI, SNMP, QSIG, LDAP, LLDP, but also Ericsson-LG Enterprise proprietary interface such as SAPP.

iPECS UCM's rich features and values deliver unlimited opportunities to your business.



Solution Portfolio

Call Server

iPECS UCM call servers maintain control and supervision of communication channels from call initiation to termination and provides the user with a rich set of communications features. These are software based systems that are available in various configurations covering up to 960K ports with single software package and services with call processing protocols such as SIP, Ericsson-LG Enterprise proprietary IP protocol, H.323 and No.7.

iPECS UCM can use 2 types of call servers - Embedded gateway module type and x86 server type.

The embedded gateway module type: UCM-S2K can be installed into the media gateway cabinet efficiently for both CCM and LCM.

X86 server type: S2K/S4K/S10K/S30K/S60K/S120K/S240K/S480K/S960K systems can be deployed with x86 servers for high performance and reliability.



Communications Manager Software

iPECS UCM has Communication Manager Software and license residing on the hard disk of the call server as a file for call features and applications control. iPECS UCM software incorporates certain functions that are activated employing a dedicated license for the function. Licenses are issued for each call server using the unique ID of the call server or call server cluster.

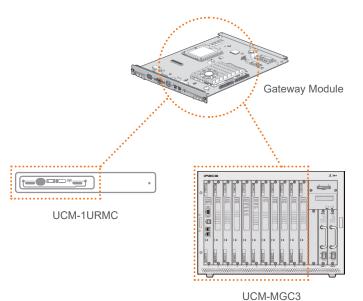
Media Gateways

iPECS UCM Media Gateway modules provide a simple interface to the various standards of the telephony network and terminals. PSTN, ISDN or IP Phone, SIP, SLT or digital phone interfaces are housed in a 7U 19 inch rack mounted or stand alone cabinet. In addition, all media gateways of iPECS UCP can be used in iPECS UCM. 3 types of gateway modules can be installed in UCM-MGC3 or UCM-1URMC.

In addition, all media gateways of iPECS UCP can be used with the iPECS UCM.

3 types of gateway modules can be installed in UCMMGC3

- TDM Network Interface Modules
- TDM Terminal Interface Modules
- Media processing resource module(UCM-VPCM) for Voice Conference, Voice Mail, Audio Announcement, Prompt, Voice Codec Transcoding Ending and VoIP RTP Rerouting



WMS(Web Management System)

WMS is the management tool for not only system configuration but also debugging and maintenance with an intuitive GUI. The WMS can go directly through any web browser to manage an iPECS UCM site in realtime. The WMS also supports additional administrative and maintenance functions for resource management, simple traffic statistics, fault alarms, and real-time system monitoring with just a few clicks.

A Variety of System Phones

To an end user, the telephone that sits on the desk is the system. It is the critical interface that determines how easy it is to use the system, and in turn, how productive, effective and satisfied a user can be. That's why Ericsson-LG Enterprise offers a wide range of user-friendly business sets to fit any business.

Ericsson-LG Enterprise IP Phones support a comprehensive suite of telephony features and applications with solutions designed to meet varying communication needs from small to large environments. The portfolio includes desktop IP phones and IP DECT. Also, Ericsson-LG Enterprise offers TDM analog and digital phones to meet the wide range of customers requirements.

IP Desktop Phone

- 1000i Series
- LIP-9000 Series

Digital Desktop Phone

LDP-9200 Series

IP DECT Phone

150dh, 110dh, GDC-800H



Easy and Efficient Applications

Every business has different communications needs and meeting these needs is critical for the business communications solutions. Ericsson-LG Enterprise iPECS UCM offers various applications for you to fulfill different needs and requirements in your business. All applications are designed to deliver the efficient and powerful resolutions for your business.

Unified Communication and Collaboration Solutions

- iPECS UCE Desktop Client
- iPECS RCCV for MS Lync/SfB
- iPECS ClickCall

Mobile Applications for Communication and Collaboration

• iPECS UCE Mobile Client for Android and iOS

Productivity Enhancement Solutions

- iPFCS IPCR
- iPECS CCS for contact center and customer service
- iPECS Report Plus for call statistic and billing
- iPECS Attendant Office/Hotel

Easy Management and Monitoring Solutions

eNMS, eVQM, eCSM



iPECS UCE



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