



iPECS

Your Communications Solution

Empower
Your Business Communications
with iPECS-CM

iPECS is an Ericsson-LG Brand





iPECS-CM's powerful and reliable solution guarantees your business growth and success.

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

iPECS-CM realizes 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-CM is an All-IP communications platform for medium and large enterprises. iPECS-CM provides IP telephony, various multimedia, applications, and mobility services over IP environment. Its innovative design enables organizations to deliver the most reliable, flexible and secured communications.

iPECS-CM's IP architecture allows an easy monitoring and managing remote platforms through Web Management System and SNMP based Network Management System.

Distributed architecture across multiple locations

iPECS-CM 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-CM redundant Call Server provides a strong survivability against LAN / WAN failure or main office Call Server failure with redundancy using dual processors.

iPECS-CM's geographic redundancy guarantees availability of communication even in geographically dispersed environment.

The local survivability offers automatic database replication between active and standby servers to guarantee continuous service and help any business operate safely.

Best platform for unified communications

iPECS-CM is the best platform for you to deploy a Unified Communications solution in a cost effective way. iPECS UCS, together with iPECS-CM, brings phones and applications running on your PC or mobile phone providing calls, IM, file sharing for collaboration as well as video conferencing in a single server.

A special open API, UCTI(Unified Communication Telephone Interface) for 3rd parties can integrate iPECS-CM telephony functions into their UC solution. With easy integration, you can add more optimized UC services to any office environment with all applications.

Future ready platform

iPECS-CM offers an evolutionary path, delivering various ways to migrate from your current to your future communications needs.

From traditional PBX functions to the most trendy features such as Hot Desk and Mobile Extension, iPECS-CM 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-CM's Hosted/Centrex Solution on All-IP platform with centralized management meets the today's requirements on Cloud Environment.



Values and Features

Full & flexible scalability

The server-based system with various modular-type gateways working on a IP-backbone offers full scalability up to 30,000 ports with a S/W package from small office to large enterprise environments.

- Begin small and grow as you want, S2K / S4K / 10K / 30K call servers based on capacity
- Scale up to 30,000 users with 255 Local Survival Branches, support 254 tenants for a large business building
- Scale down with MFIM: compatible with MFIM 50~ MFIM 1,200

Strong Survivability from Geographical Redundancy

iPECS-CM ensures consistent service 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.

- Dual Processors
- Up to 16 CPU Clustering, Ethernet Link, Power, CTI Link, SMDA Link Redundancy
- Local survivability and PSTN failover for WAN failure (S1K, S2K or MFIM)

Maximized Security on IP Communications

iPECS-CM is a proven secured communication solution with encryption, enhanced authentication and access security.

Security management on Call Server

- System access control using Access Control
- Subscriber authentication

Encryption between IP-PBX and IP Phone

- Protocol: TLS, sRTP
- Algorithm: AES (Global standard)
- Key: ECC, RSA

IP Phone VPN and 802.1x

- Built-in IP Phone VPN client ensures secured communication and reduces security cost
- Using port access control protocol, 802.1x, you can protect company network for communication

Beyond investment protection

Your investment in other iPECS systems or phones can be kept and worked with iPECS-CM, and which helps to reduce overall investment for new solutions and even creates new synergy.

- Keep using iPECS-LIK Gateway Module, common applications and end points
- Keep benefits of desktop phone features with MS Lync by using Ericsson-LG RCC Gateway/Client 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 Cellular 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 to a single device.

- Through the advanced Mobile Extension Feature set on iPECS-CM and mobile clients (iPECS Communicator and iPECS UCS Mobile Client)
- Improvement of work efficiency
- Communication cost reduction

Value-added Features for Customization

iPECS-CM provides rich features beyond traditional telephone systems enriching customer's experience even further. In addition to fully featured internal business communications, iPECS-CM 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

JAVA technology applied to Web Management tools gives the same user experience with native application in terms of GUI and procedures.

WMS (Web Management system)

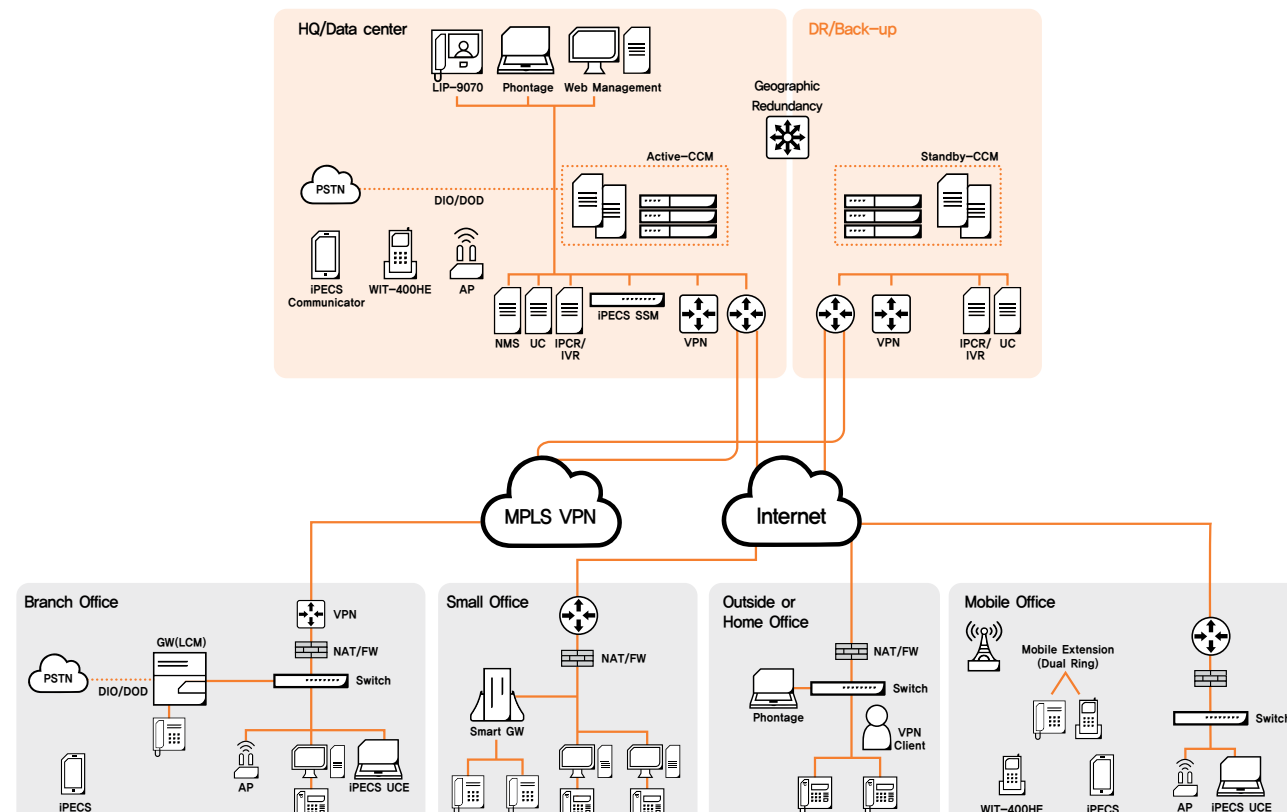
- Web based IP Telephony management tool
- No additional devices required
- Manage station, trunk, system error and 3rd party equipment

NMS (Network Management system)

- SNMP based IPT monitoring tool including server, gateway modules, phones and data switches
- Monitoring connected off-premises devices status and notification

Open Interface with Various Applications

There's no limitation to integrate any applications through not only the standards such as SIP, TR.87, TAPI, CSTA CTI, SNMP, QSIG, LDAP, LLDP, but also Ericsson-LG proprietary open interface such as SMDI and SAPP.



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

Solution Portfolio

Call Server

iPECS-CM 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 four configurations with 2,000 / 4,000 / 10,000 / 30,000 ports, covering up to 30,000 ports with single software package and services with call processing protocols such as SIP, Ericsson-LG proprietary IP protocol, H.323 and No.7.

The iPECS-CM offers 2 types of servers - embedded Gateway Module type and commodity service type.

The embedded Gateway Module type - CM-S2K, CM-S1K (Only for Branch office Local Survivable Server) - can be installed into the media gateway cabinet efficiently.

The commodity service type - CM-S30K, CM-S10K, CM-S4K - employs normal commercial server or carrier grade server platforms providing high performance and reliability.



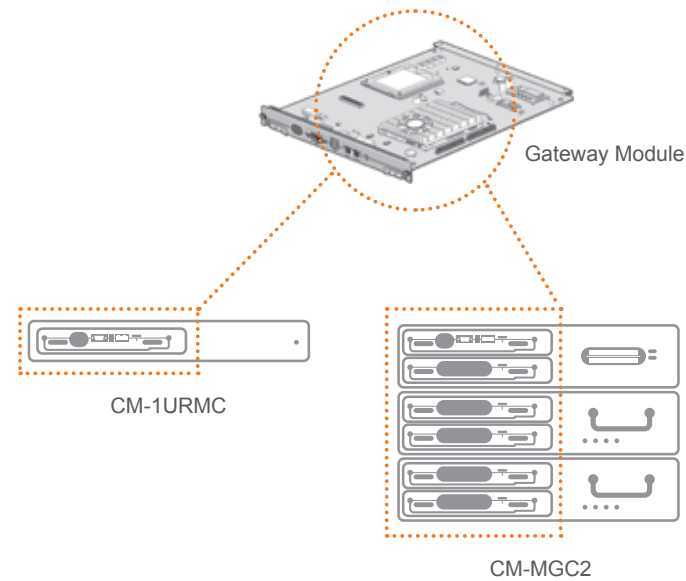
Media gateways

The iPECS-CM Media Gateway Modules provide simple interface to various standards telephony networks and terminals. PSTN, ISDN or IP Phone, SIP, SLT or digital phone interfaces are housed in a 5U 19-inch rack or stand-alone mount cabinet.

In addition, all Media Gateways of the iPECS-LIK can be used in the iPECS-CM.

3 types of Gateway Modules can be installed in CM-MGC2 or CM-1URMC.

- TDM Network Interface Modules
- TDM Terminal Interface Modules
- Resource Module for Media Processing and VoIP Rerouting: CM-VPCM



Communications Manager Software

iPECS-CM 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-CM 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.

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-CM site in real-time. 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 available

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, IP conference phone, Voice over Wireless LAN handsets and IP DECT phone.

Ericsson-LG Enterprise also offers TDM analog and digital phones to meet the wide range of customers requirements.

IP Desktop Phone

- LIP-8000 / LIP-8000E Series IP Phone
- IP8800 / IP8800E Series SIP Phone
- LIP-9000 Series IP Phone
- LIP-9070 Premium IP Phone

Digital Desktop Phone

- LDP-9000 Series
- LDP-7000 Series

Wi-Fi Phone

- WIT-400HE

IP DECT Phone

- GDC-800H, GDC-800Bi, GDC-800R



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-CM 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 UCS Desktop Client
- iPECS RCC Gateway for MS Lync
- iPECS ClickCall

Easy management and monitoring solutions

- CM NMS

Productivity enhancement solutions

- iPECS IPCR
- iPECS CCS for contact center and customer service
- iPECS Attendant Office

Mobile applications for communication and collaboration

- iPECS Communicator for Android and iOS
- iPECS UCS Mobile Client for Android and iOS
- Phontage



iPECS Communicator(And/iOS)

iPECS UCS(And/iOS)

The content of this document is subject to revision without notice due to continued progress in methodology, design and manufacturing. Ericsson-LG Enterprise shall have no liability for any error or damage of any kind resulting from the use of this document

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