

# Enterprise Communications Platform (ECP) revolutionizes industry services

**Oracle Enterprise Communications Platform (ECP)** seamlessly connects devices, manages networks, and enables real-time communications across the Oracle suite of industry cloud services. Built for performance and scalability on Oracle Cloud Infrastructure (OCI), ECP empowers organizations to orchestrate, connect, and manage communications for next-generation, cloud-based services. The platform unifies IoT, edge, and mobile devices over public communication networks, enriching Oracle's cloud offerings with robust connectivity.

ECP serves as a communications backbone, embedding powerful APIs into OCI services to deliver secure, real-time, reliable connectivity tailored to industry-specific needs. As a comprehensive cloud-based communications platform, ECP manages and secures device and network connections across the entire operational environment. Key functions include video capture, connectivity management, endpoint coordination, device management and provisioning, and more—all supporting collaboration across diverse devices and media formats (voice, video, data).

Enhanced capabilities include conferencing, IoT and mobile device management, distributed edge processing, cloud-to-edge managed Wi-Fi and LAN, as well as robust authentication and authorization. This platform helps ensure the security and reliability of all connected endpoints.

## ECP Benefits

- ✓ End-to-end integrated solution for device and network management
- ✓ Secure, reliable network services and connectivity management
- ✓ Lifecycle management for IoT, mobile, and edge devices, including digital twins
- ✓ Comprehensive monitoring and alerting across device and network ecosystems
- ✓ Dual SIM support and robust connectivity backhaul
- ✓ Advanced analytics and visualization for devices, networks, and services
- ✓ Automatic device interconnectivity, data collection, and scalability
- ✓ Bidirectional ground-to-cloud data and event management
- ✓ Secure authentication, authorization, and access management

## Addressing industry challenges

High quality, real-time interactions are critical for modern enterprises, yet often constrained by limited control over networking, devices, and service integration. ECP addresses these challenges head on:

### Device management:

Organizations face complexity managing diverse devices (e.g., patrol cars, body cameras, tablets), their SIM cards, and

secure network integration—all while controlling costs and ensuring expertise. Disparate manual systems for data capture and archiving further inhibit timely, informed responses.

**Network management:**

Different industries have unique network needs—while healthcare and emergency services require ultra-reliable connections, retail may need only standard internet. ECP abstracts and optimizes network services, adapting to varying demands so industries can focus on their core functions.

**Cloud integration:**

Migrating applications to the cloud reduces IT overhead but introduces integration challenges, especially as networks and devices remain on-premises or span multiple clouds. ECP streamlines cloud integration, eliminating manual processes and reducing complexity.

**ECP features**

- ✓ **Secure, reliable network connectivity for distributed environments**
- ✓ **Integration with cloud, IoT, mobile, and edge devices**
- ✓ **Endpoint security and over-the-air updates**
- ✓ **Distributed edge network computing capabilities**
- ✓ **Advanced intelligent conferencing and collaboration tools**

## Transforming critical communications

ECP unifies device connectivity across networks and OCI services, enabling seamless, end-to-end communication.

**Oracle Enterprise Communications Platform RealTime (ECP RT)**

- Enables bi-directional audio, video, chat, and screenshare connections
- Supports real-time collaboration through advanced conferencing
- Manages sessions with audio/video stream control, including IP camera streaming (RTSP)
- Provides rich media capabilities: screensharing, chat, live captioning, and cloud-based stream recording
- Secures connections using robust authentication and authorization with time-bound access tokens

**Oracle Cloud Connector**

- Manages on-premises edge nodes and connected devices (including Wi-Fi and LAN)
- Simplifies remote firmware updates, application management, and lifecycle maintenance
- Supports industrial-grade edge computing to improve data processing speed and lower costs
- Ensures continuous application uptime with resilient connectivity, even during network outages

**IoT device management**

- Monitors and manages large-scale device fleets, with secure, authenticated access
- Facilitates easy device registration, organization, and remote troubleshooting
- Collects and analyzes IoT telemetry for insights and digital twin visualizations

**Mobile device management**

- Secures and administers mobile device lifecycles for Android and iOS
- Enforces flexible policies and provides unified visibility across devices and organization structures

**Connectivity management**

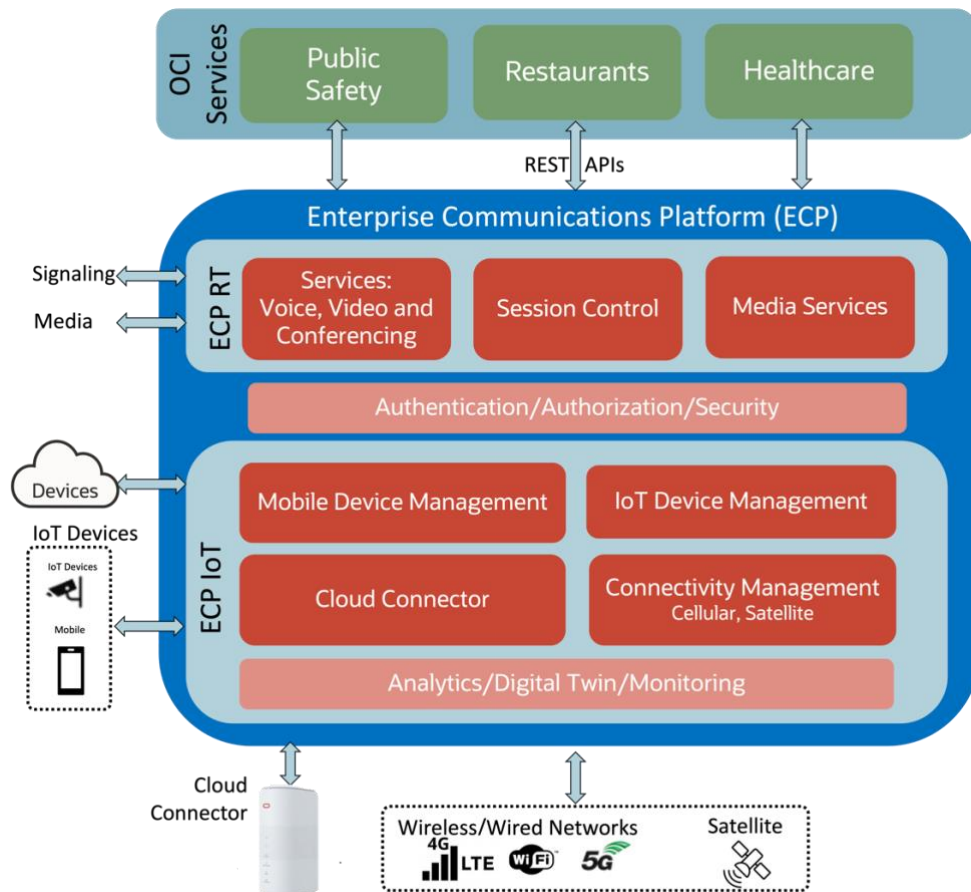
- Provides seamless connectivity via Wi-Fi, ethernet, 4G, 5G, and satellite
- Simplifies SIM card management (including dual SIM and satellite support)
- Enables real-time monitoring, usage tracking, data transfer limits, and alerts
- Presents network health and security indicators for immediate action

**Authentication, authorization, and accounting**

- Delivers intelligent access control, policy enforcement, and comprehensive usage auditing

**ECP Capabilities**

- ✓ ECP-RT enables bi-directional audio, video, chat and screenshare connections
- ✓ Oracle Cloud Connector creates resilient edge connections and Wi-Fi/LAN connectivity, bringing cloud applications closer to the data
- ✓ IoT Device Management for monitoring and maintaining device health and security
- ✓ Mobile Device Management for Android and iOS phones/tablets
- ✓ Robust connectivity management across cellular and satellite networks
- ✓ Integrated authentication and authorization for all endpoints



## ECP in Public Safety

ECP delivers reliable real-time communications for emergency vehicles and first responders using Oracle Public Safety Suite (OPS). Integrated camera and video systems (including body-worn and drone cameras) stream live video and location data directly to command centers via secure 4G/5G/LTE connections. Dual SIM capability provides uninterrupted coverage, with satellite fallback for even the most remote areas.

### Key benefits:

- Instantly accessible, real-time video feeds and incident data
- Enhanced situational awareness for quicker, more informed decisions
- Seamless device management and authenticated access
- Command-and-control integration for streamlined incident response

Learn more at [oracle.com/government/state-local/public-safety](https://oracle.com/government/state-local/public-safety).

### ECP in Local Government

- ✓ **Situational Awareness: Real-time collaboration with video and mobile devices**
- ✓ **Failsafe Networking: Wireless, wired, and satellite for always-on connections**
- ✓ **Device Management: Provides secure, authenticated device operations**
- ✓ **Command and Control: Supports critical operations and rapid dispatch**

## Powering the next generation of cloud services

ECP is the foundation for Oracle’s connected, secure, and scalable communications—spanning cloud and edge environments. It blends real-time voice and video with industry-leading device and connectivity management, distributed processing, and robust authentication. ECP’s flexible architecture supports seamless integration of any device, over any connection—Wi-Fi, ethernet, satellite, 4G, or 5G—delivering exceptional reliability for modern cloud applications.

### Supported Interfaces

<b>Device to cloud connectivity protocols</b>	MQTT over SSL HTTPS
<b>Supported IOT message data formats</b>	JSON Binary
<b>Supported platforms for Oracle IOT client software</b>	Java SE 5 and above C/C++ (POSIX, Linux) iOS Android Python JavaScript
<b>Device Connectivity</b>	Cellular WiFi
<b>Oracle Cloud Connector connectivity</b>	WiFi Ethernet USB Cellular MQTT over SSL Modbus Satellite
<b>ECP RT</b>	Advanced Video Coding: H.264 VP8 Opus Audio Audio:

	OGG (Opus) Wav (PCM) G711 (SIS/RTSP)
<b>Certified Device Connectivity</b>	USB

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