ORACLE

Oracle Enterprise Communications Platform Cloud Connector

Oracle Enterprise Communications Platform Cloud Connector, a core component of the **Oracle Enterprise Communications Platform**, is an edge hardware device that extends Oracle Cloud securely to the edge in customer environments.

Supporting connected industries

The Oracle Cloud Connector supports use cases that require on-premises application hosting and seamless, secure integration between local environments and Oracle Cloud. It brings enterprise applications closer to their data sources by securely acquiring, aggregating, and normalizing data, hosting business applications, and converting protocols. Oracle Cloud Connector helps organizations reduce infrastructure costs, speed up deployments, and improve IT agility by managing Wi-Fi and LAN environments remotely through a single console or API. This approach can provide full visibility, automated configuration, and proactive monitoring — without the need for onsite controllers or additional hardware.

Operational efficiency

Oracle Cloud Connector enhances operational efficiency by enabling one touch deployment and native integration with the Oracle Enterprise Communications Platform (ECP). Its one touch onboarding simplifies site rollouts and device registration, allowing organizations to rapidly connect entire locations without the need for manual configuration or multiple hardware components.

With built-in support for cellular, fixed, and satellite WAN connectivity, Cloud Connector offers flexible options for connecting remote, mobile, or hard-to-reach sites where traditional wired infrastructure may be unavailable or unreliable. Dual-SIM functionality enables automatic failover between multiple cellular networks, such as Vodafone and AT&T, ensuring uninterrupted connectivity and service continuity. Satellite connectivity, via Starlink, further extends Cloud Connector's reach, providing a resilient alternative in areas beyond the coverage of terrestrial networks—essential for industrial, maritime, or geographically dispersed operations.

Through centralized, cloud-based management via the Oracle ECP portal or APIs, administrators can efficiently oversee fleets of edge devices, IoT endpoints, and local applications—from remote firmware updates to policy enforcement and troubleshooting. Native integration with Oracle ECP helps enable unified visibility, streamlined operations, and consistent policy application across both cloud and edge environments. By processing and analyzing data locally while synchronizing seamlessly with Oracle Cloud Infrastructure (OCI), Cloud Connector reduces latency, minimizes operational overhead, and maintains business continuity—even

ORACLE CLOUD CONNECTOR CORE CAPABILITIES

- Cloud-managed Wi-Fi and LAN including device discovery, usage ranking, alerting, and remote configuration
- Simplifies remote firmware updates, application management, and lifecycle maintenance
- Supports industrial-grade edge computing to improve data processing speed and lower costs
- Provides continuous application uptime with resilient connectivity, even during network outages
- Local IoT and mobile device onboarding, policy, updates, and troubleshooting; bulk registration supported via Oracle ECP
- Automated failover/backhaul to maintain application uptime in remote or impaired networks

ORACLE

in challenging network conditions. This unified approach reduces IT complexity, lowers total cost of ownership, and empowers organizations to deploy, manage, and scale distributed systems efficiently and securely.

Edge connectivity, resilience and processing

As a core component of ECP, the Oracle Cloud Connector enables direct, resilient connectivity across a spectrum of WAN network types—including wired, cellular, and satellite—with robust failover mechanisms such as dual-SIM support and automatic network switching. This empowers enterprises to maintain continuous access to cloud services and critical applications, even in environments where network outages or limited connectivity are common. In addition to WAN connectivity, the Cloud Connector can create its own Wi-Fi access point and supports LAN connectivity, allowing devices to connect locally for seamless communication at the edge. By processing and analyzing data locally at the edge while synchronizing with OCI, the Oracle Cloud Connector reduces latency, preserves service continuity, and supports real-time decision-making.

Security and compliance

Security is embedded at every layer, with TPM-based secure boot, full-stack encryption, token-based authentication, and comprehensive auditing. These features align with Oracle's zero trust approach and maintain compliance across all edge connections, devices, and applications and protect against emerging threats. The Cloud Connector's ability to run business-critical applications on-site also means services can remain operational in disconnected or failover scenarios, which is ideal for industries that demand high availability and resilience.

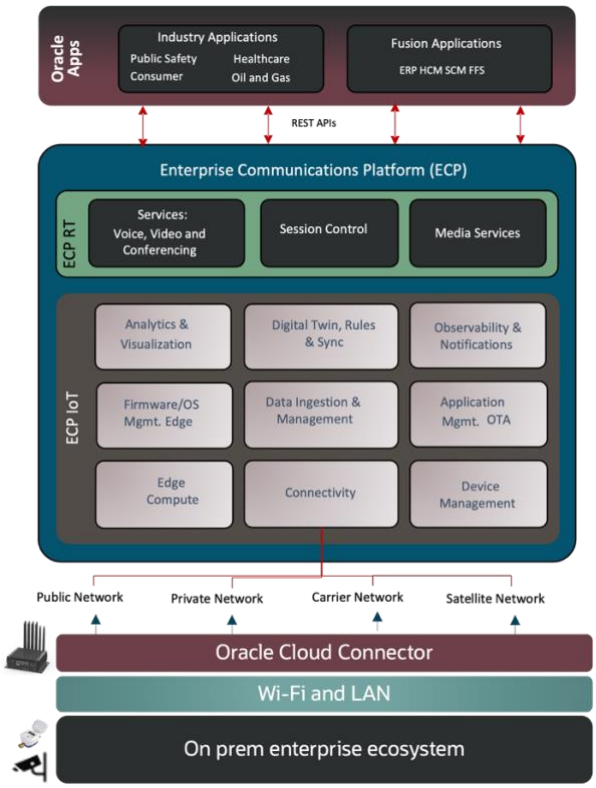

Image 1: Oracle Cloud Connector is the edge hardware within the Oracle ECP architecture, strategically extending secure and resilient connectivity, as well as cloud services, directly to locations where data is created and business operations occur.

Transforming critical communications

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.

At its core, Oracle Cloud Connector is a robust, Intel-based appliance housed in a fanless, compact aluminum enclosure suited for industrial environments. It supports multiple network interfaces and enables resilient, always-on connectivity for diverse deployment scenarios. Its onboard compute and storage resources maintain reliable performance for real-time monitoring, application hosting, and device management. Oracle Cloud Connector's comprehensive architecture enables secure, high-performance bridging between enterprise data sources and Oracle Cloud, even in remote or disconnected environments.

Primary use cases include:

- **Public safety:** With Oracle Cloud Connector in the field, mounted in police cars, communications can be maintained to dispatch.
- **Healthcare:** Connects rural or temporary clinics to cloud-based health records and applications, supporting telemedicine and mobile teams.
- **Hospitality:** Instant Wi-Fi/LAN, cloud connectivity and automatic network failover for fast, secure site launches when building pop-up sites for retail or food service.
- **Utilities/Construction and Engineering:** Enables asset management, online/offline service continuity, and edge integration for remote or mobile operations.

Image 2: Oracle Cloud Connector 5G + Wi-Fi Antennas

Summary

Organizations leveraging Oracle Cloud Connector benefit from simplified and consolidated IT operations, reduced latency, enhanced security, and a consistent experience across cloud and edge. As part of the broader Oracle ECP solution, the Oracle Cloud Connector forms the foundation of a unified communications infrastructure designed to meet the needs of today's digitally transformed, distributed enterprises.

Hardware capabilities

Application and Cloud **One touch edge compute node with application hosting and always-on connectivity to cloud**	Application lifecycle management One touch activation Container management Linux 9

Compute and Storage **Intel-based compute and storage for local workload and remote operations**	Intel Atom x6425E 4 core 2.0GHz/3.0GHz 1.5 MB L2 Cache 32GB DDR4-3200 512GB M.2 SATA SSD
Wi-Fi Access **Cloud-managed Wi-Fi access, advanced monitoring, security and insights**	AsiaRF MTK7915NPD Wi-Fi 6 Dual Band 2x2 MIMO
Network Access **Fixed, cellular and satellite connectivity**	4x1GbE WAN/LAN/Starlink Telit FN990A40 – Dual SIM LTE/5G
IoT Edge Gateway **Local serial and network device integration**	2x USB2.0
Dimensions and Environment **Fan less, office like environment with Aluminum enclosure and Desktop mount**	150mm x 210mm x 65mm (LWH) Storage: -20-75C Operating: 0-50C Humidity: 10-90% (non-condensing)
Power Adapter	19V@4.74A
Regulatory	Product Safety UL/CSA 60950-1, EN 60950-1 IEC, 60950-1 CB, UL/CSA 62368-1, EN/IEC 62368-1 Schemes with all country differences EMC>> Emissions: EN55032, EN61000-3-2, EN61000-3-3, EN61000-3-12, EN61000-3-12>>EN55035 Emissions and Immunity EN300 386
Certifications	North America (NRTL/FCC) Canada (NRTL/ICES) EMEA (CE) Kenya (RURA) Morocco (ANRT) Bahama (URCA) Australia (RCM)
European Union Directives	2014/35/EU Low Voltage Directive 2014/30/EUEMC Directive 2011/65/EU RoHS Directive 2012/19/EU/ WEEE Directive