Containerized Short Message Service Center

Get Your Message to the Right Destination

Comtech's containerized Short Message Service Center (**cSMSC™**) is a cloud-native architecture-based high-capacity, multiprotocol SMS delivery application. The cSMSC helps mobile operators and enterprises to rapidly deploy differentiated data messaging services, offer enhanced applications, and increase subscriber loyalty and customer satisfaction, while minimizing CAPEX/OPEX.

cSMSC Supports Messaging Operations

Advanced Messaging operations - Person to Person (P2P), Application to Person (A2P), Person to Application (P2A) and Machine to Machine/ Machine Type Communication (MTC) Short Messaging Service, Voice Mail Notification, and Enhanced Messaging Services (EMS).

Multiple network technologies including built-in IP messaging - Interworking among various technologies and networks to minimize hardware proliferation by providing comprehensive support for IMS/LTE (Diameter and SIP signaling respectively) and GSM/UMTS for SMS delivery over SS7.

Machine-type communication and Internet of Things (IoT) applications – Provide connectivity and interfaces for seamless messaging for consumer mobile devices, applications and IoT devices, and Machine to Machine communication.

Containerized architecture – Supports a cloud-native microservices design built on Comtech's Dynamic Cloud Platform (DCP) which provides high availability, reliability, scalability, and security.

Comtech's DCP is designed to be infrastructure, cloud, and application agnostic—allowing communications providers and other organizations to easily orchestrate, integrate, and manage applications across private, hybrid, and public cloud networks.

Features

- cSMSC application available for private, public, or hybrid cloud deployments
- Cloud native architecture protects investment as customer networks continue to evolve
- Support of 4G IMS/LTE, 5G fallback to 4G, with simultaneous support of legacy 2G/3G GSM/UMTS networks
- Multiprotocol support including Diameter, SIP, SMPP, and SS7 protocols
- Built-in IP-SM Gateway and SMSC Router functions
- SMS over Non-Access Stratum (NAS)
- Carrier services supported:
  - P2P, A2P, P2A and MTC use cases
  - EMS
  - Prepaid and Postpaid SMS
    - Billing including Automated Message Accounting (AMA) call detail records
    - Integration with usage control, and online charging systems
  - Intercarrier Messaging including support for international phone numbers
  - Premium messaging events (e.g., short code support, interactive text alerts)
  - Message archiving
  - Personalized messaging features such as copy/forward, allow/block lists, signature, and auto-reply
- Built-in Anti-Spam, Anti-Spoofing, and Duplicate Message Detection and Deletion features

Customer Benefits

- End-to-end interoperability based on industry standards defined by ETSI, IETF, and 3GPP.
- Flexible platform to support rapidly evolving needs.
- Deployment automation and orchestration.
- Secure, web-based dashboard for troubleshooting and provisioning.
- Role-based account management for Operations, Administration and Maintenance.
- Compliance with U.S. federal mandates, such as Wireless Number Portability.
- Ability to leverage a team with 25+ years of domain expertise.

About Us

Comtech Telecommunications Corp. is a leading global technology company providing terrestrial and wireless network solutions, next-generation 9-1-1 emergency services, satellite and space communications technologies, and cloud native solutions to commercial and government customers around the world. Our unique culture of innovation and employee empowerment unleashes a relentless passion for customer success. With multiple facilities located in technology corridors throughout the United States and the world, Comtech leverages its global presence, technology leadership and decades of experience to create the world's most innovative communications solutions.

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