



■ System Introduction

- ◆ The Intelligent Integrated Communication Management and Control System is an access-level softswitch platform designed for next-generation networks (NGN). Built on the Linux operating system and developed based on VoIP protocols, the system delivers stable and reliable softswitch capabilities. It supports the SIP protocol, NAT traversal, and multiple authentication methods, while offering a rich set of value-added services including voice and video communication, electronic fax, conferencing, recording, IVR (Interactive Voice Response), TTS (Text-to-Speech), and Radius-based billing interfaces. Through modular expansion, the system enables interconnection with PSTN networks, IP PBX systems, wireless two-way radio systems, and other network infrastructures.
- ◆ The system supports load balancing and redundant backup, providing stable and reliable access-level operational services. It features a rich set of Web-based configuration options and centralized network management capabilities, meeting diverse operational requirements.

■ System Functions

◆ Integrated Communication Capabilities

The integrated communication system platform enables the centralized connection of existing systems within the facility, including public address and intercom systems, wireless intercom systems, emergency broadcasting systems, and fire alarm systems. This integration overcomes previous communication bottlenecks and achieves interoperability across different systems and networks.

◆ Efficient Command and Dispatch

The constructed integrated communication system is a platform that combines rapid-response communication capabilities with information systems. It enables comprehensive integration of various emergency services, unified command, and coordinated operations. This provides rapid and timely emergency command and rescue services to on-site facilities, offering robust communication support for petrochemical enterprises.

◆ Flexible Network Deployment

The integrated communication system can flexibly adjust its network architecture according to actual application scenarios and requirements. It supports hybrid deployment models such as self-organized networking combined with 5G networking or dedicated wireless networks, thereby meeting diverse communication needs.



SCS-KD Smart Integrated Communication Control System System Introduction

System Topology Diagram

