Gen-IC

Gen-IC Virtual Intercom

Virtual Intercom

Key Features and Benefits

Gen-IC Virtual Intercom
- Worldwide Intercom Service by Clear-Com
- Agent-IC & Station-IC Virtual Clients
- LQ Analog & Virtual Interfaces
  - 2-wire, 4-wire, GPIO, I.V. Direct (IVC), SIP

I.V. Core Technology
- Decentralized audio mixing & routing
  - Channels: 24
  - Transports: Call, RMK, Control Events
- Globally Linked or Regional Deployment
- Adjustable low latency Opus codec per port

Gen-IC Supports
- Virtual Intercom
  - Fully virtual multi-channel intercom
- Hybrid Intercom
  - Virtual Clients for on-site systems
- Bridging Intercom
  - Multiple sites
  - Without specialized hardware or networking

Gen-IC Essential
Virtual Intercom
- Up to 12 Channels
- From 8 to 144 Agent-IC/Station-IC
- Up to 6 Linked Gen-IC
  As: Weekly, Monthly, or Annual Subscription

Gen-IC Premium
Hybrid- & Bridging Intercom
- Up to 24 Channels
- From 8 to 384 Agent-IC/Station-IC
- Up to 6 Linked Gen-IC/LQ
- Up to 80 LQ Interface Ports
  As: Weekly, Monthly, or Annual Subscription

Configuration
- CCM browser setup, config & status

SkyPort Administration Portal
- Gen-IC Purchases
- Workspaces for Gen-IC & LQ
- User & Credential Management

Gen-IC Virtual Intercom services enable real-time partyline workflows, using Agent-IC and Station-IC Virtual Clients. Scalable for small to large teams with optional LQ interfacing for on-site intercom systems.

Description
Gen-IC Virtual Intercom is a Clear-Com cloud hosted subscription service enabling 24 channel partyline deployments worldwide over the internet without dedicated intercom hardware or network requirements. Agent-IC and Station-IC Virtual Clients facilitate the intercom user using their mobile device or computer with multiple intercom channels, each with dedicated talk, listen, and level control in addition to visual call signals and device notifications. Gen-IC is scalable for small to large teams with low latency, operational robustness, and ease of use.
Gen-IC can optionally be integrated into on-premises intercom and audio systems or peripherals using LQ interfaces.

Technical Specifications

Compatibility
LQ Interfaces v5.1+
Agent-IC v2.10+
Station-IC v1.6+

Licenses
Delivery: Subscriptions delivered to SkyPort
License Host: SkyPort
Activation: Via SkyPort
Validity: Duration of a Committed Subscription. Starts with Activation
Duration: 1 Year/Month with Initiation – Auto renewal if not cancelled
Transferable: Yes, via SkyPort Workspaces and user management
Recovery: Contact Clear-Com

Note: Gen-IC user capacity can be used with Agent-IC or Station-IC. Additional licensing for Agent-IC or Station-IC is not required.

Network Specifications | Release 1 +
Gen-IC & LQ Link Groups

Network Protocols
Ethernet IPv4–Unicast Audio and Control
Layer 3 routable
DNS – Domain Name Server
HTTP & HTTPS–Management
NTP-Network Time Protocol
I.V. Core–Decentralized Network Routing & Mixing
IVP-Proprietary intercom Audio and Control
Opus–Audio Codec

Unicast:
Port 80 TCP – Web Interface, System Management
Port 443 TCP – Web Interface, System Management
Port 655 TCP – Link Group Member Registration
Port 655.... (random*) TCP – Link Group Communication
Port 655... (random*) UDP – Link Group Audio
Port 6001... (random*) TCP – System Management
Port 6001... (random*) UDP – IVP Audio Streams

Multicast:
None

Audio
Resolution: 12, 24 bit
Sample Rate: 24, 48kHz
Frequency Response: 100 - 12kHz or 100 - 20kHz
Audio Encoding: Opus

Network Parameters
Custom on LQ or preset settings
Bandwidth:
0.04-0.10Mb/s per output
Bit Rates: 16, 32, 48, 64, 128kbps
Packet Size: 5, 10, 20, 40, 60ms

Network Jitter Tolerance:
Custom or preset settings
Jitter Buffers: 0 - 1000ms

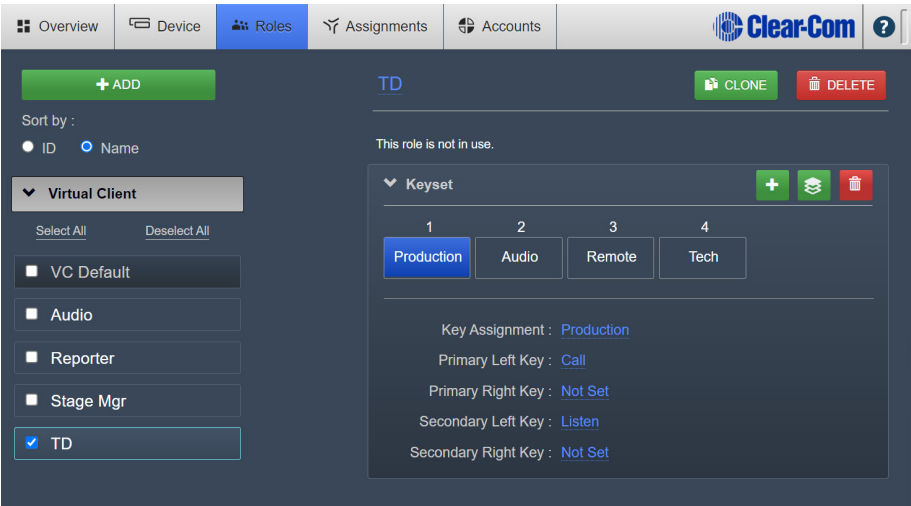### QoS Tags:
DSCP=34, Assured Forwarding (AF=41)
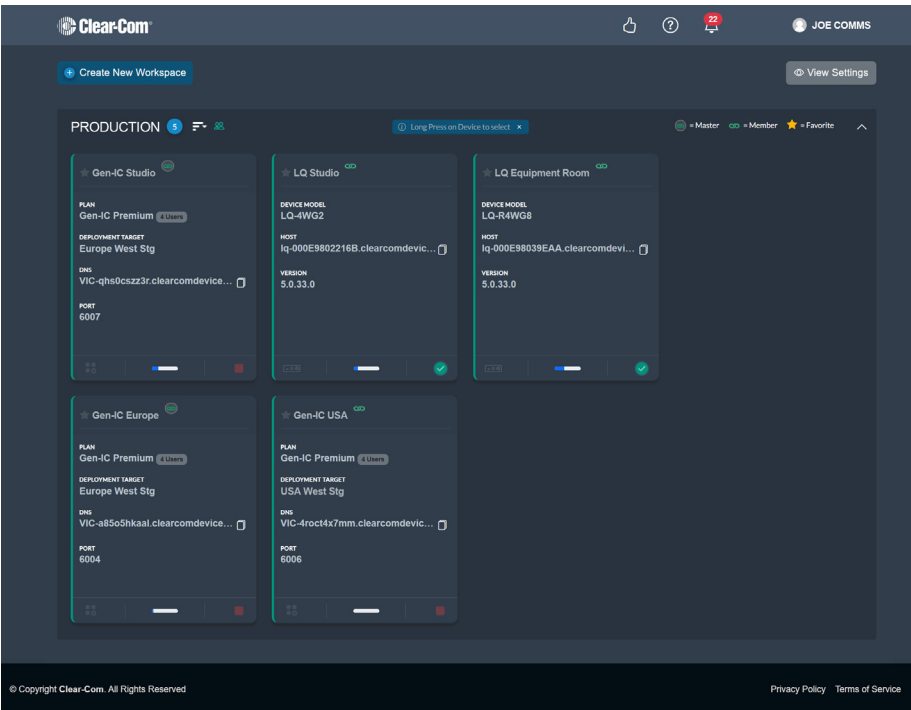
Mandatory:
Google Service Access

*Ports are automatically assigned upon system start. See Gen-IC CCM

Gen-IC Virtual Intercom

Virtual Intercom

Gen-IC CCM

SkyPort

Order Codes

Gen-IC Essential: Virtual Intercom

GEN-IC-ESS-4U-W: 4 users for 1 Week
GEN-IC-ESS-4U-M: 4 users for 1 Month
GEN-IC-ESS-4U-Y: 4 users for 1 Year
GEN-IC-ESS-8U-W: 8 users for 1 Week
GEN-IC-ESS-8U-M: 8 users for 1 Month
GEN-IC-ESS-8U-Y: 8 users for 1 Year
GEN-IC-ESS-12U-W: 12 users for 1 Week
GEN-IC-ESS-12U-M: 12 users for 1 Month
GEN-IC-ESS-12U-Y: 12 users for 1 Year
GEN-IC-ESS-16U-W: 16 users for 1 Week
GEN-IC-ESS-16U-M: 16 users for 1 Month
GEN-IC-ESS-16U-Y: 16 users for 1 Year
GEN-IC-ESS-24U-W: 24 users for 1 Week
GEN-IC-ESS-24U-M: 24 users for 1 Month
GEN-IC-ESS-24U-Y: 24 users for 1 Year

Gen-IC Premium: Hybrid- & Bridging Intercom

GEN-IC-PREM-4U-W: 4 users for 1 Week
GEN-IC-PREM-4U-M: 4 users for 1 Month
GEN-IC-PREM-4U-Y: 4 users for 1 Year
GEN-IC-PREM-8U-W: 8 users for 1 Week
GEN-IC-PREM-8U-M: 8 users for 1 Month
GEN-IC-PREM-8U-Y: 8 users for 1 Year
GEN-IC-PREM-12U-W: 12 users for 1 Week
GEN-IC-PREM-12U-M: 12 users for 1 Month
GEN-IC-PREM-12U-Y: 12 users for 1 Year
GEN-IC-PREM-16U-W: 16 users for 1 Week
GEN-IC-PREM-16U-M: 16 users for 1 Month
GEN-IC-PREM-16U-Y: 16 users for 1 Year
GEN-IC-PREM-24U-W: 24 users for 1 Week
GEN-IC-PREM-24U-M: 24 users for 1 Month
GEN-IC-PREM-24U-Y: 24 users for 1 Year
GEN-IC-PREM-32U-W: 32 users for 1 Week
GEN-IC-PREM-32U-M: 32 users for 1 Month
GEN-IC-PREM-32U-Y: 32 users for 1 Year
GEN-IC-PREM-48U-W: 48 users for 1 Week
GEN-IC-PREM-48U-M: 48 users for 1 Month
GEN-IC-PREM-48U-Y: 48 users for 1 Year
GEN-IC-PREM-64U-W: 64 users for 1 Week
GEN-IC-PREM-64U-M: 64 users for 1 Month
GEN-IC-PREM-64U-Y: 64 users for 1 Year

Gen-IC is available on Clear-Com's SkyPort:
skyport.clearcom.com

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