



Homeland Security & Critical Infrastructures

## CSP-GW CSP GATEWAY

The CSP Gateway (CSP-GW) provides gateway services to the CSP subscribers connecting the CSP platform with external networks in order to satisfy the increasing need for integration of different communication technologies especially during mission-critical operations.

The CSP-GW implements signalling and media gateway functions between the CSP-CM and external networks (PSTN/PLMN and PABXs) exposing interfaces such as:

- ISDN-PRI
- 2 Wire FXO (Foreign eXchange Office)
- 4 Wire E&M (Ear and Mouth)
- Trunking SIP.

### MAIN FEATURES

The CSP-GW can be used in different telephone or data network environments. It provides gateway services between the CSP network and the following telephone network technologies:

- VoIP networks (SIP)
- ISDN networks
- Analog telephone networks via 2 Wire FXO or 4 Wire E&M or Legacy Analog Radio Networks via 4W E&M.

The CSP-GW provides two codecs - ACELP and G.711 A-law.

### PRODUCT COMPOSITION

CSP-GW is based on the CSP-HW platform and Linux OS.

## Low-end composition

CSP-GW is released with low performance configurations:

CONFIGURATION	SLOT 1	SLOT 2	SLOT 3	SLOT 4	SLOT 5	SLOT 6	NUMBER OF VOICE CALLS
GW-IP LE#3	48 V panel	SBC			Amtelco 4WE&M (Radio Interface)	LAN 4 GigaBitEth	8 4w calls + 8 VOIP calls
GW-IP LE#3.1	48 V panel	SBC			Amtelco 4WE&M (Type5)	LAN 4 GigaBitEth	8 4w calls + 8 VOIP calls
GW-IP LE#4		SBC	ISDN PRI			LAN 4 GigaBitEth	Up to 16 calls ISDN-PRI or VOIP calls
GW-IP LE#5.2		SBC			ANALOG FXO	LAN 4 GigaBitEth	4 FXO + 12 VOIP calls
GW-IP LE#6		SBC				LAN 4 GigaBitEth	16 VOIP calls

## High-end composition

CSP-GW is released with high performance configuration:

CONFIGURATION	SLOT 1	SLOT 2	SLOT 3	SLOT 4	SLOT 5	SLOT 6	NUMBER OF VOICE CALLS
GW-IP HE#2		SBC	ISDN PRI			LAN 4 GigaBitEth	Up to 60 calls ISDN-PRI or VOIP calls

## PERFORMANCE

- CSP-GW low-end is able to provide up to 16 GW calls independently from the HW configuration
- CSP-GW high-end is able to provide up to 60 GW calls independently from the HW configuration. CSPGW resources are shared between the different GW interfaces.

## CAPABILITIES

Main services available (some upon request) are:

- L3 Routing
  - OSPF v2
  - BGP v4
  - RIP v1, RIP v2
- IP Security
  - ACL
  - NAT
- Interfaces
  - 2 port ISDN-PRI
  - 4 port 2Wire FXO (Foreign eXchange Office)
  - 8 port 4Wire E&M (Ear and Mouth)
  - 4 port Gigabit Ethernet
- VoIP Services
  - SIP
- Redundancy
  - Link Bonding
- Management
  - SNMP
- Configuration files