

# Creative IRIS IVDX Cloud IP Ready



## Specifications

Technology

Architecture

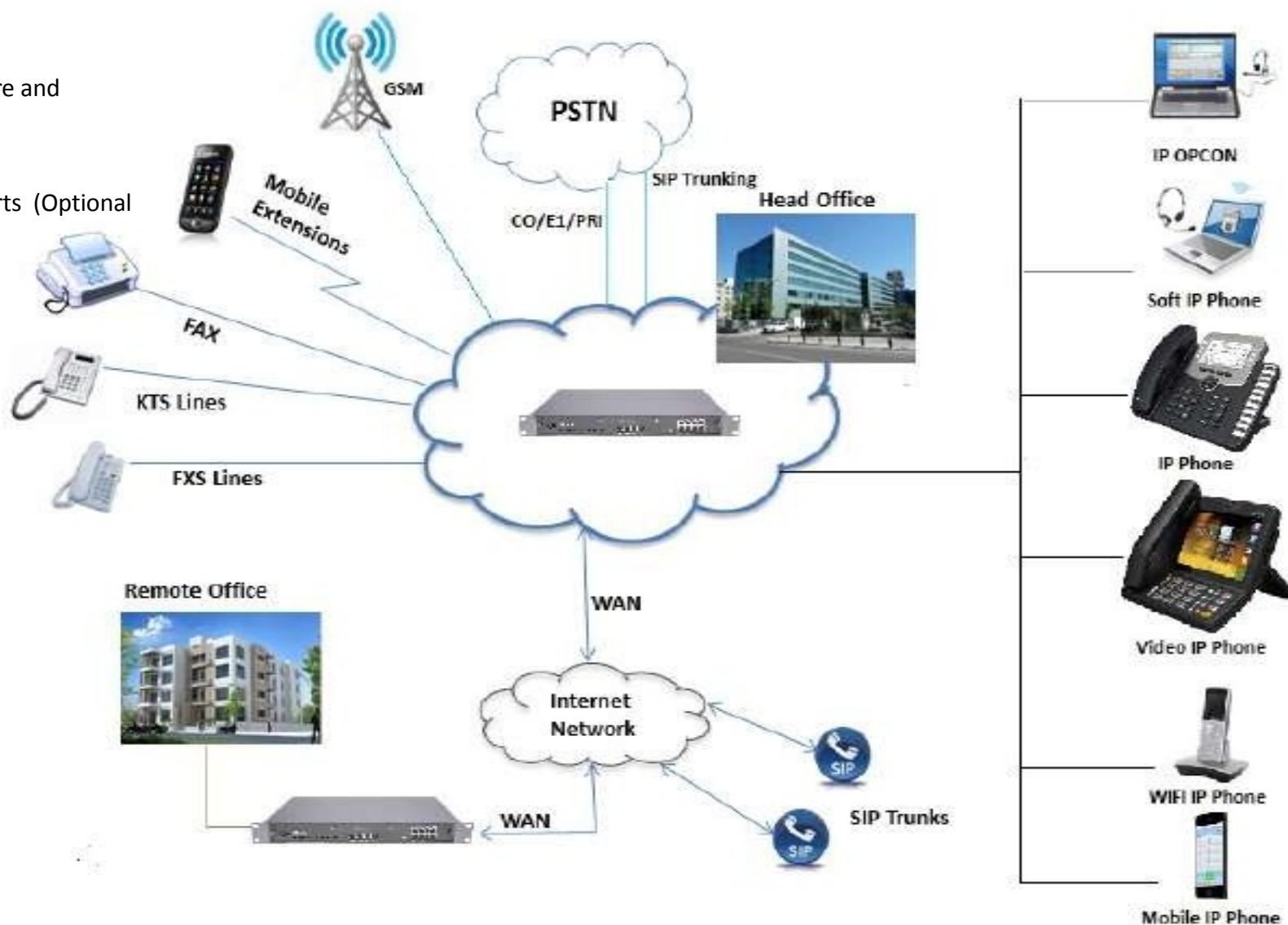
Interface Support

Ethernet port

IP interface Cabinet

Subscriber options

- IP at Core, Full control over Software and Hardware
- Universal Slot
- IP & TDM
- 02 Redundant Gigabit Ethernet Ports (Optional Optical ports)
- SIP User / SIP trunks
- 1U, 19" Rack Mount
- Analog Extension
- Digital Key Phone
- IP Phone
- Video IP Phone
- Soft Phone client
- PC based Operator Console



## Subscriber Services

- CLI with Name
- Call Hold
- Call Pick-up
- Meet Me Conf.
- Call barring
- ACD
- Auto Redial
- Boss Secretary
- CDR
- Memory Dialing
- Hotline
- Voicemail
- Call Forward (Int/External)
- Call Transfer
- Multi Party Conferencing
- Dial In Conf.
- Parallel Ringing
- Call Listening
- CUG
- CLI Based routing
- Do-Not-Disturb
- DID/DOD
- RCOC
- Video Call

## Protocols & Standard supported

IPv4/IPv6, DTMF, Loop Dial, E1 CAS, ISDN/ QSIG, SIP, TCP/IP, UDP, RTP, SSH, SSL, NTP, DHCP, NAT, IEEE 802.1X

## VoIP Properties

Open Standard SIP Support

## Codec Supported

G.711a, G.711u, G.722, G723, G726, G729, iLBC, GSM

## System and Maintenance

Field upgradable by use of add on board Internal and external memory backup of call details and programming built-in protection on all ports. User friendly Web based User Interface for system programming.

## Digital Key Phone

2X16 Character LCD Display

12/24 No's DSS keys with Status LED 10 No's Features Keys

## Power Supply

AC Operation – 90-265V AC DC Operation – 36-60V

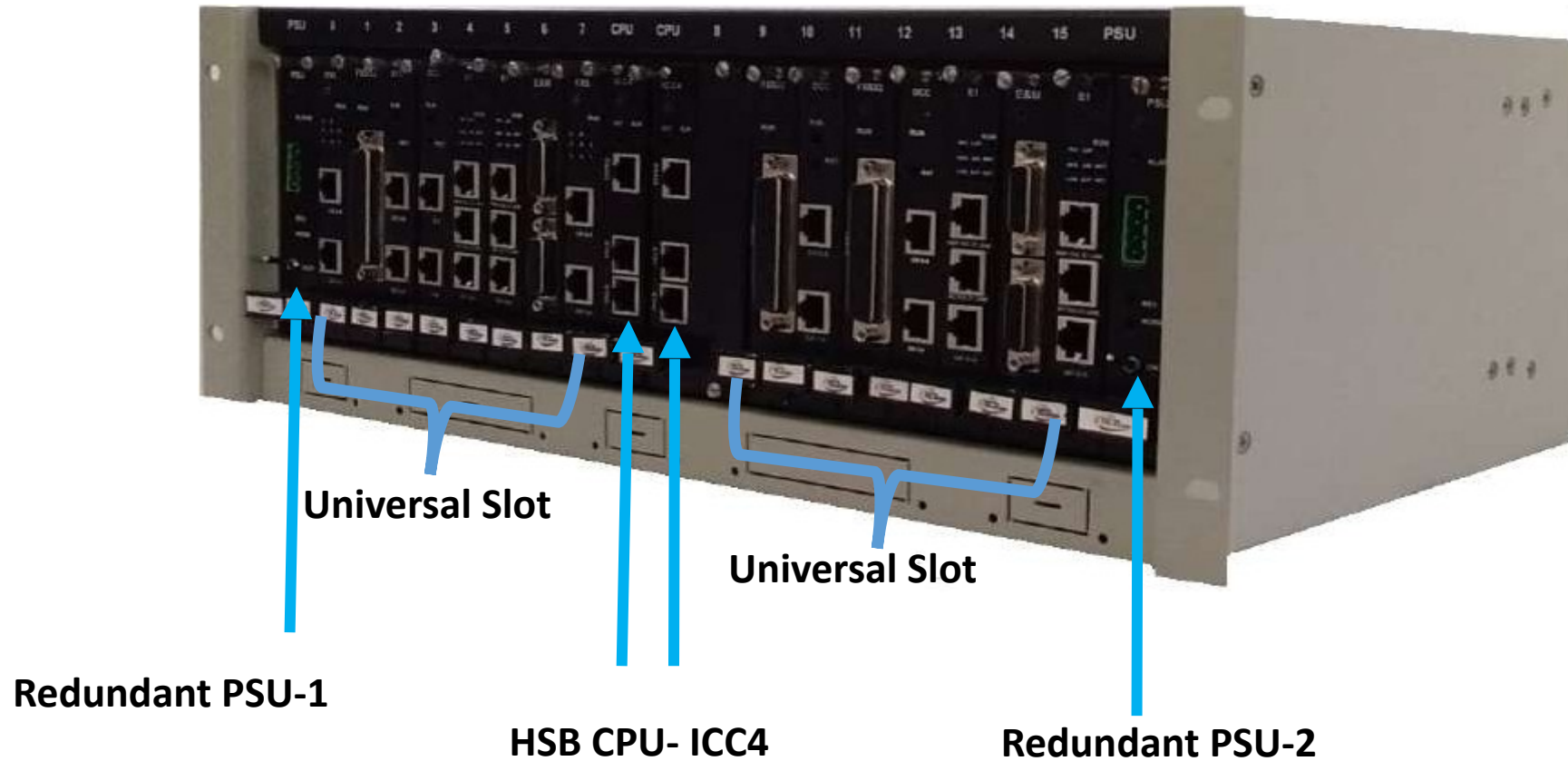
DC

Power Consumptions – 0.7W/Line



# IRIS IVDX Cloud - 3U Module

*A Next Generation Versatile System*



## Functionality

- SIP Standard
- IPv6 Ready
- Redundancy of CPU & Power Supply
- Matured Call & In Progress Call recovery in HA mode
- Inbuilt SIP Registrar
- Heart-beat Functionality
- Dual Gigabit Ethernet Port
- Link/Network Redundancy
- Support Proprietary Digital Key Phone's
- Multi-protocol Support
- Supports multiple type of TDM interfaces (FXS/FXO/ENM/E1/PRI/GSM/RADIO)
- Self - Survivability for Analog, Digital & IP Phones
- Modular architecture for easy scalability
- Toll grade voice compression
- Echo cancellation, Jitter Buffer, VAD and CNG
- Complies with latest version (RFC3261) SIP protocols
- Enhanced capabilities which include MWI, metering tones
- Best suitable for SIP based hosted communications and centralized IP-PBX applications.
- Easy configuration and installation
- Supports all standards telephony features such as Call Hold, Call Transfer, Message Wait Lamp, Call Waiting, do not disturb, Caller Id presentation, Conference, Hotline, Etc.
- 19" Rack Mountable Design

## Design Architecture

Architecture : Universal Slot  
Interface Support : Hybrid  
Survivability : Self-Survival  
Port Capacity : 512 Ports

## Interface Characteristics

FXS Interface  
Configuration : 8/16/32 Ports  
Line Voltage : 48 Volt  
Dialling : DTMF (As per ITU-T Q. 23 ) Decadic (10/20 PPS)  
Caller Id : DTMF (As per ITU-T Q.23)  
: FSK (Bellcore 202)  
Loop Resistance : 3000 Ohm  
Open loop resistance : >10K  
Ringing Voltage : 75 V AC + 10 %, 20-25 Hz

## VoIP Characteristics

SIP : RFC3261, RFC3264, RFC 3265  
: RFC 3515 (REFER), RFC3435 (MGCP)  
: RFC 2782 (DNS SRV), RFC 3428 (IM)  
SDP : RFC 2327  
RTP / RTCP : RFC 3350

Jitter : Adaptive Jitter buffer  
SIP DTMF Signalling: RFC2833  
: SIP INFO  
: DTMF - Inband audio tone  
Conference : Supported  
Codecs Supported : G.711A/PCMA, G.711U/PCMU  
: G.723, G.726, G.729, GSM, iLBC  
FAX Support : T.38

## Physical Interface

Serial Interface : 1\*RS232 Port  
Ethernet Interface : 2 No's 10/100/1000 Mbps with link redundancy

## Network Protocols

Protocol Supported : IP (IPv4/IPv6), HTTP, HTTPS, Telnet,  
: SSH, TFTP, VLAN (802.1Q), SNMP

# IRIS IVDX Cloud Server Box

*A Next Generation Versatile IP@Core Communication Server*



**Module-1 and Module-2 can be use as HSB Mode**

# IRIS IVDX Cloud Server Box

*A Next Generation Versatile IP@Core Communication Server*



Module 1 & Module 2 can be used as HSB Mode

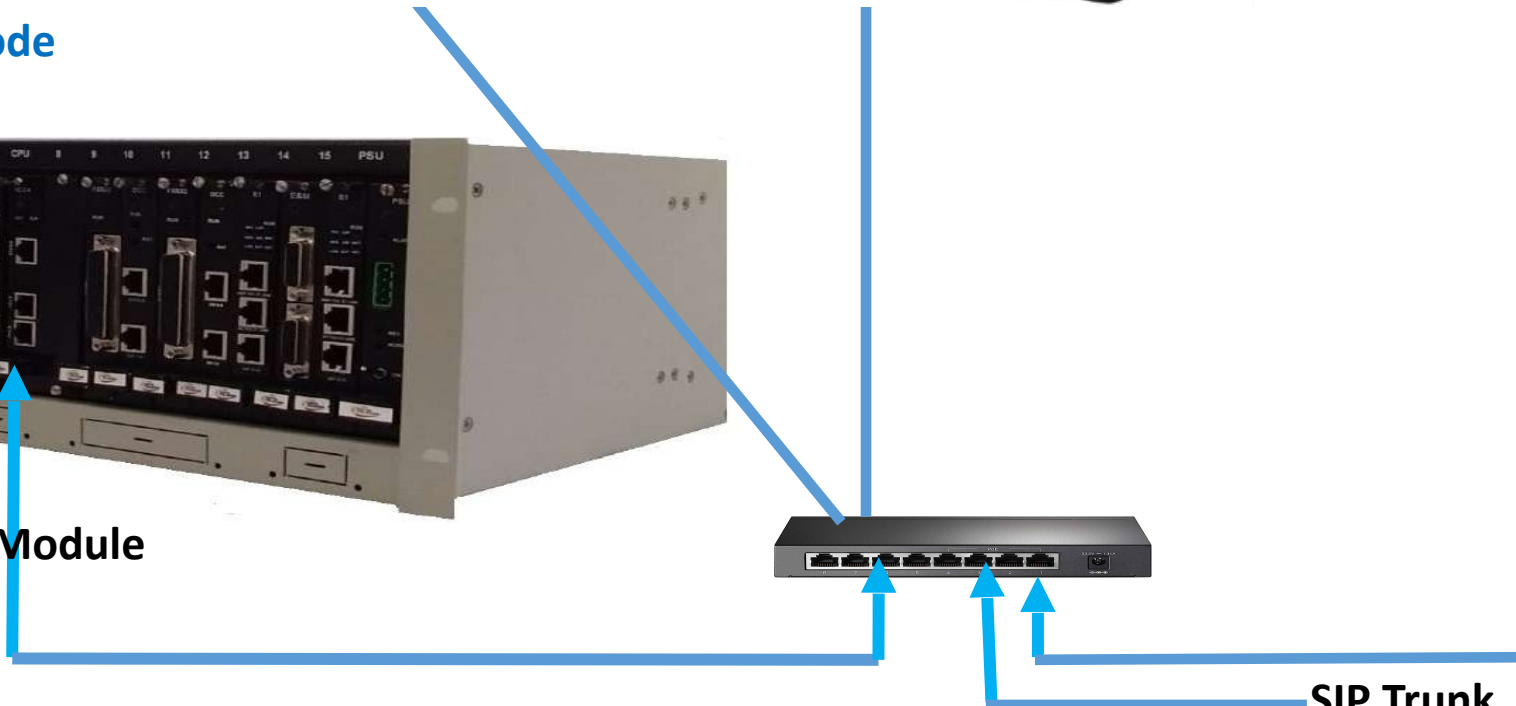


IRIS IVDX Cloud - 3U Module as Media Gateway



IP Phone

SIP Trunk





## Rich Telephony Features

- Auto Attendant & IVR functions
  - Auto Attendant Schedule with configurable multilingual tree support.
  - Customizable voice guided formats.
  - Multiple Auto Attendants receiving in various ACD modes.
- Automatic Route Selection (ARS)
  - Day mode Night mode call Interval Settings.
  - Customizable Route Selection (priority, session, destination, callee based priority).
  - Cost based / Traffic based / Congestion based / shortest route based routing.
  - Template Rules for ITSPs and GWs including CAC (call admission control) to ensure QoS.
  - Divert to alternate mobile / landline. Multi appearance or Single number for multiple destinations as well as SIP clients for mobile devices that work seamlessly over 3G / 4G / LTE. Quality of conversation on mobile clients depends on bandwidth, latency & jitter on PLMN.
- Call Forwarding
  - Busy/No Answer Call Forwarding
    - Call Forwarding Schedule
    - Unconditional Call Forwarding
  - Music on Hold & Call Hold. Can support customized messages.
  - Call Hunting & hunt groups.
  - Auto detection & line locking.
  - Call Log, CDR, Billing, User formats for billing, Email of bills and integration for payments. User portal to view bills by period cost or destination.
- Call Transfer
  - Attended Transfer
  - Blind Transfer
  - Intercom Transfer
  - Transfer to Voicemail
- Call Monitoring
  - Automatic Monitoring
  - Supervising Mode
  - Silent Monitoring
  - Whisper page
  - Quality of call monitoring on Phone / Admin / NMS / CDR
- Call Park.
  - Private park
  - Public park

- Public park
- Call Pick Up
- Call Pick Up public
- Call Pick Up specified Group
- Call Queue monitoring.
- Call back indication.
- Redial, Speed dial Abbreviated dial & scheduled dial
- Auto answer
- Boss Secretary calling
- Call Recording.
- Audio as well conference calls. Admin monitored or user defined during the call.
- Specified callers.
- Malicious call trace & record
- Call waiting with differentiated RBT
- Call Schedule.
- Do Not Disturb
- Codec Support- 128 or more
- G.711 u-Law, A-Law
- G.722
- G.729 (including G.729a, G.729b & G.729ab).
- IP V6 & IP V4 support

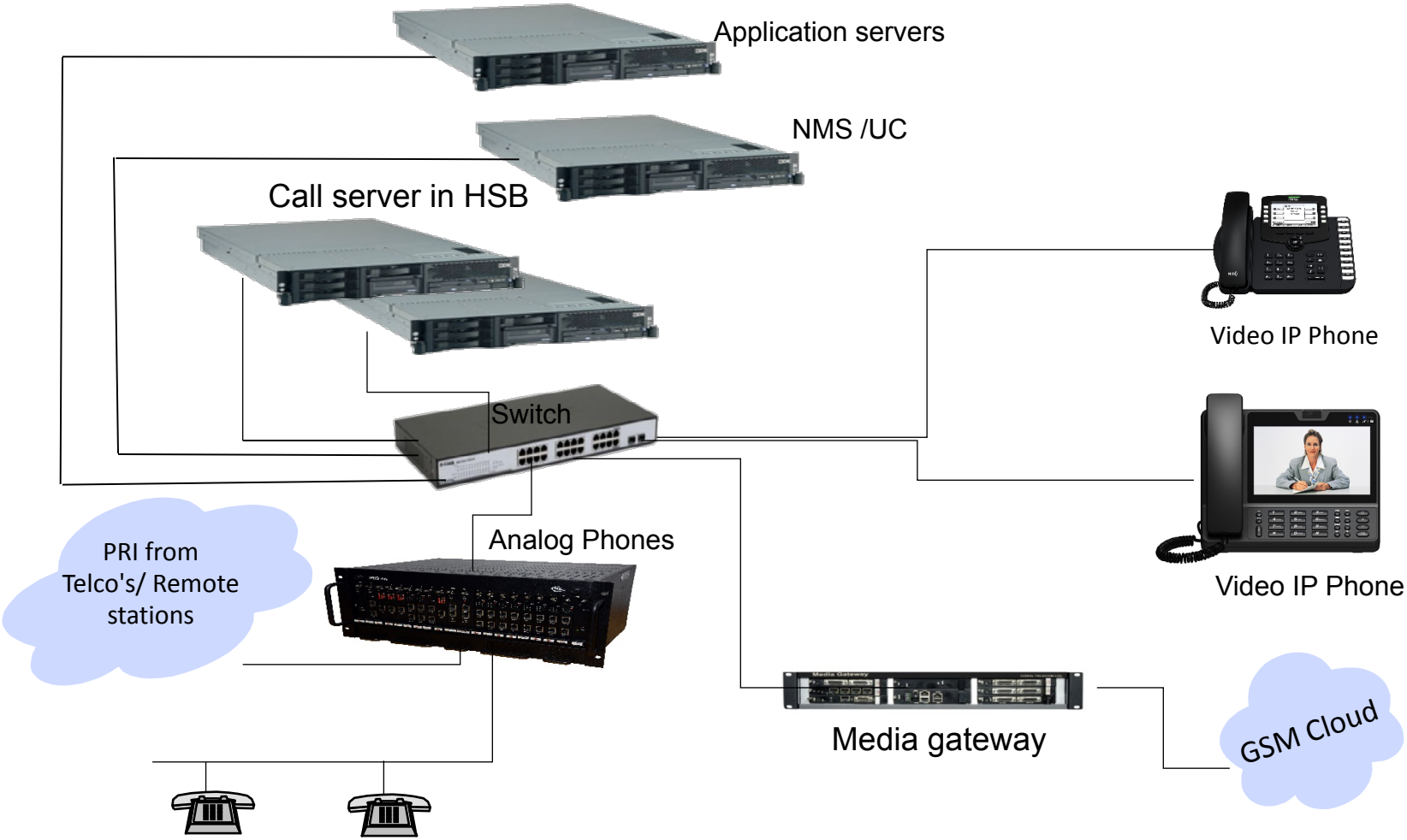
- Conference (Multi-Way Calling)
- Convene Conference “Meet me”,
- Operator assisted, Ad hoc
- Invite Attendee / Add & drop any party / Mute as well as “barge in”
- Multiple Conference Rooms
- Scheduled/Instant Conference
- Confirm Divert without even receiving or picking the handset.
- Direct Inward Dialing (DID).
- Message Waiting Indication (MWI)
- Music-On-Hold
- System Default Music-on-Hold
- Personalized Music-on-Hold
- NAT ping to discover the hidden clients.
- Paging (1-way: Unicast & Multicast).
- Public Announcements.
- Friendly System programming clicking directly on Accounts to directly select sub-menu
- Extensions
- Gateways

- Phones
- User Manager
- XMPP Manager
- Loop resistance
- Short loop Analog Extn. 1200 Ohms
- Long Loop Analog Extn. 2400 Ohms
- TRAFFIC HANDLING
- BHCA : 500,000
- BHCC : 300,000

## Unified Communication Application Supports friendly Access to,

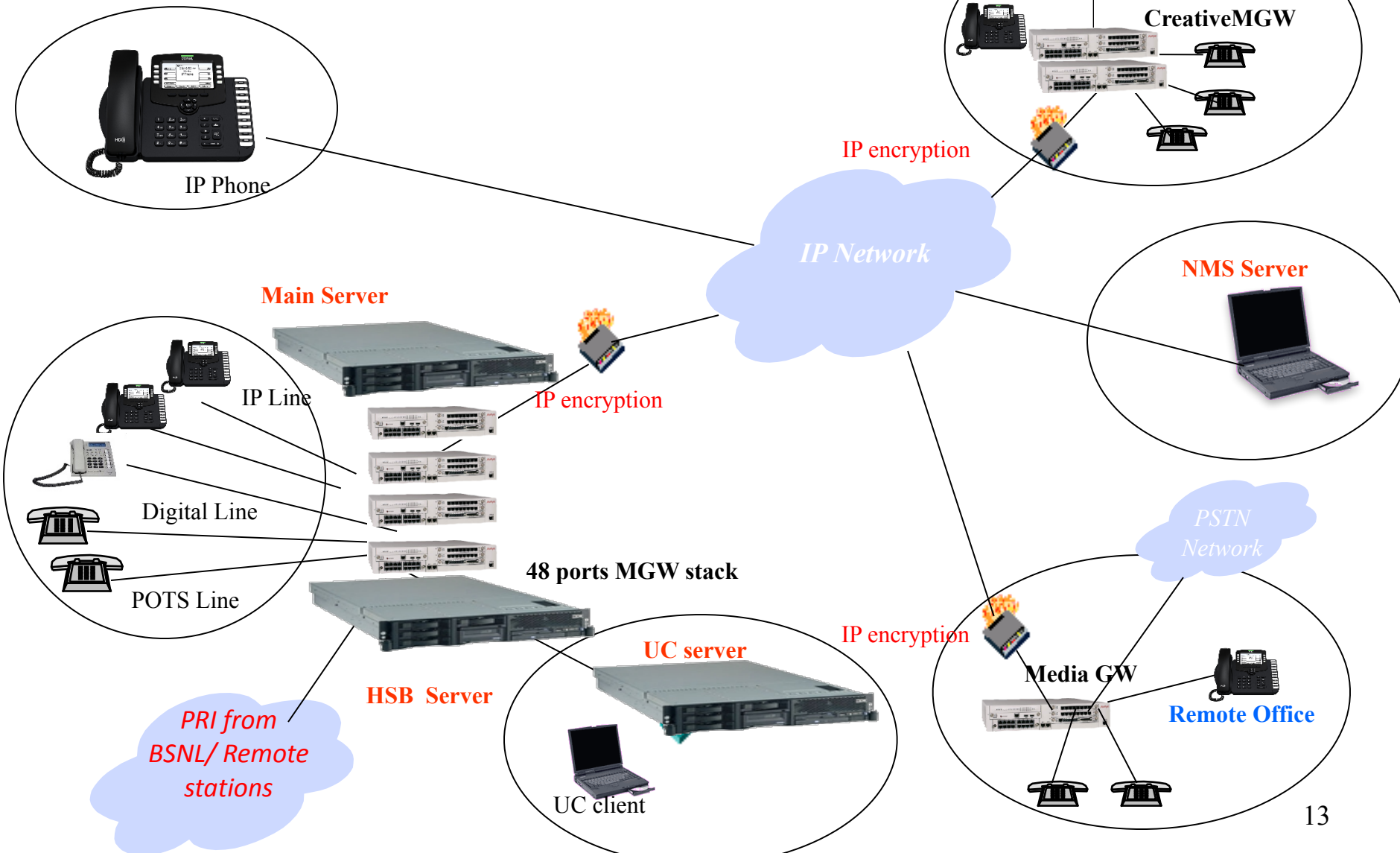
- Presence based control Online, Offline, Busy, DND, On/Off Hook, Away, Logged off
- LDAP integrated with corporate & public directory to maintain various contacts
- Chat / Messaging
- Call Detail Records
- One Number Service
- Click to Call from the convenience of PC
- Call back services
- Conference set up & controls – mute, invite, barge in & purge features
- Fax send receive & forward options
- Voicemail
- Desktop share, white boarding, Collaborative work
- File sharing
- Video call & Video conference

# Server Media Gateway Architecture



# IP PBX with Distributed Architecture

Remote residential Subscriber



## Unique Features

- Inbuilt system dashboard
- Security 802.1x/ MD-5/ SRTP/ TLS1.2/ F2B to prevent DOS attack
- IVR based complaint management system
- Emergency call to the predefined numbers using short code
- Emergency alert to predefined number with predefined messages on SMS/ WhatsApp mapped to the code.
- Connectivity with ITSP service providers
- CDR with programmable archiving period and retrieval
- One number service
- LDAP functionality

## Security & Encryption Supported

Creative IRIS IVDX supports :-

- \* Secure Real- Time Transfer Protocol (SRTP)
- \* Transport Layer Security & Secured UDP
- \* Remote Unit and Call server can be connected through encrypted SSH or IP sec Tunnels for direct command line session, HTTPS ( SSL) for web sessions, SFTP for file Transfers.
- \* Encrypted VPN Voice tunnels for traffic routed in specified directions.
- \* Radius Authentication, MD5 Encryption of passwords.
- \* 802 .1x based port and Mac binding
- \* “sys logs “and “intrusion tracking” mechanism ensure superior forensic analyses if even required.

## Unique Features

- Alphanumeric numbering plan
- Multi level Auto-attendant
- Boss-Secretary feature using IP phone
- Class of Service unlimited.
- Day/Night Mode
- Mobile/Desktop client supported with Video calling
- Voice paging on Creative IP phones



## Features Supported

- Busy lamp field
- Call Forward All/ Busy/ No Answer / External
- Listen-In/ Barge-In/ Whisper
- Restrictive dialling
- VIP number restrictive access
- MWI (Message Wait Indication)
- Own Extension PASSWORD Change
- Call Pick up Extension/ Group
- Call Forking
- Conference 3 Party / Multiparty

## Features Supported

- CLI with Name
- Auto provisioning/ zero configuration
- Realtime graphical display of inbound calls
- Operator console with AB/AT/AS/VIP facility
- Distinctive Ringing based on CLI / Internal/ External
- Custom Ring back tone

# PC based Operator Console

The screenshot displays the 'Sanhita - operator\_conf' application window. The interface is divided into several functional areas:

- Top Bar:** Shows the user's name 'Operator', extension '1212', and the time '10:02:34 AM'. It also contains icons for mute, hold, call, and other functions.
- Left Panel (Idle):** Features a numeric keypad with letters (e.g., 1-ABC, 2-BCD) and function buttons like 'BI', 'EI', 'R', '+', and 'C'. Below the keypad is a search bar and a list of names and numbers.
- Center Panel (Conference Room 1):** A table with columns for 'Number', 'Name', 'Status', and 'Duration'. Below this table are buttons for 'Un Mute', 'End', and 'Mute', and another section for 'Active/Direct Calls' with its own table.
- Right Panel:** A grid of call status cards, each showing a number, name, and status (e.g., '25020 PCSTE CONF Idle').
- Bottom Bar:** A row of function buttons: 'Call / Answer Enter', 'Disconnect Escape', 'Transfer TAB', 'Hold F6', 'Answer VIP F2', 'Answer Intercor F3', 'Answer Trunk F4', and '3 Party Conf F7'.

## Creative Unified Communication Solution (UCS)

- Creative UCS is Browser based application.
- No need to install any software in Users PC.
- User can access their portal from any PC.
- All kind of users Analog, Digital or IP can have UC access if permitted.
- Easy to use and Deploy

## Creative Unified Communication Solution (UCS)

- Instant Messaging one to one or group
- Single click conference among UC users
- Presence notification
- Audio conference module
- Video conference module

## Creative Call Reporting

- Wide range of reports including cumulative & details reports with various search options
  - Extension wise
  - Department wise
  - Trunk wise
  - Duration wise
  - Time wise
- Graphical view of Real time/Online monitoring of Extensions or Junctions.
- Generation of alarm based on threshold limit of various parameter of CDR

# Call Billing Reporting

**IRISIVDX Cloud - Billing Report**      Dashboards -    Reports -    Settings -    Messages    Sign Out

2019-07-29 00:00:00    2019-07-29 23:59:59    Enter destination number    =    Enter duration(Sec)

Call Type :  LOCAL    STD    ISD      Status :  Answered    Unanswered      Direction :  Incoming    Outgoing    Internal

**Company**

Search

- Company
- CORAL
- Bharat\_Heavy\_Electrica\_Ltd
- Hindustan\_Aironotical\_Ltd
- Gangaram

**Department**

Search

- Department
- ACCOUNTS DEPTT
- ACUPUNCTURE
- ADD DIR MED
- ADDL DIR ADMIN

**Designation**

Search

- Designation
- SeniorAccountant
- Executive
- aaaa

**Extension**

Search

Extension	Name
996001	-
9999	-
96011	-
1019	-

**Account Code**

Search

No matching records found

Generate Detail
Generate Summary

**Billing Report**

Export To PDF      Search

Extension	Extension Name	DID Number	DOD Number	Direction	Destination Number	Start Time	Answer Time	End Time	Talk Time	Status	Call Type	Pulse
898	898			OUT	9540463517	2017-09-19 06:09:45	-	2017-09-19 06:09:46	0	Unanswered	LOCAL	0
898	898			OUT	9718035496	2017-09-19 09:48:02	-	2017-09-19 09:48:03	0	Unanswered	LOCAL	0
718	718			INT	715	2017-09-19 09:58:07	2017-09-19 09:58:07	2017-09-19 09:58:09	2	Answered	INTERNAL	1
718	718			INT	716	2017-09-19 09:58:12	2017-09-19 09:58:12	2017-09-19 09:58:14	2	Answered	INTERNAL	1
718	718			INT	701	2017-09-19 09:58:16	2017-09-19 09:58:16	2017-09-19 09:58:20	2	Answered	INTERNAL	1
718	718			INT	712	2017-09-19 09:58:22	2017-09-19 09:58:23	2017-09-19 09:58:25	2	Answered	INTERNAL	1
815	815		2595515	INT	715	2017-09-19 10:02:49	2017-09-19 10:02:50	2017-09-19 10:02:52	2	Answered	INTERNAL	1
718	718			INT	715	2017-09-19	2017-09-19	2017-09-19	2	Answered	INTERNAL	1

Showing 1 to 10 of 987 rows    10 records per page      < < 1 2 3 4 5 > >

Close

## Call Billing Reporting

The screenshot displays the 'IRISIVDX Cloud - Dashboard' interface. It features two side-by-side panels, each with a 'Billing' header and a list of report links. Each link includes a checkmark icon and a right-pointing arrow.

**IRISIVDX Cloud - Dashboard**

**Billing**

- Billing Report
- Billing Gateway Report
- Billing Frequently Call Report
- Billing Per Hour Report
- Billing Peak Day Report
- Billing Daily Report

**Billing**

- Top Money Utilize Report
- Historical Report Request
- Schedule Report



# Call Billing Reporting

**Billing Summary**

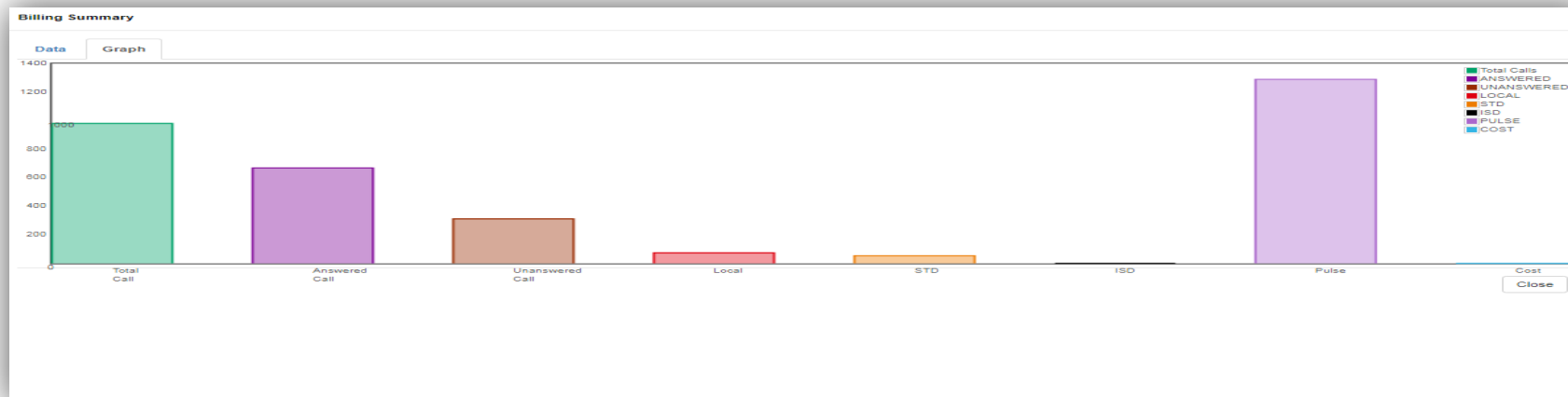
Data Graph

Export To PDF Search

Extension	Total Call	Answered call	Unanswered call	LOCAL	STD	ISD	Pulse	Call Cost
860	22	9	13	0	0	0	20	0.00
703	26	25	1	0	0	0	67	0.00
825	14	9	5	0	0	0	24	0.00
891	46	41	7	0	0	0	75	0.00
708	3	3	0	0	0	0	3	0.00
876	12	5	7	0	0	0	12	0.00
719	31	27	4	0	0	0	35	0.00
704	3	2	1	0	0	0	10	0.00
817	62	29	33	2	10	0	63	0.00
869	19	16	3	3	2	0	23	0.00

Showing 1 to 10 of 26 rows 10 records per page

Close



**Thank You**