

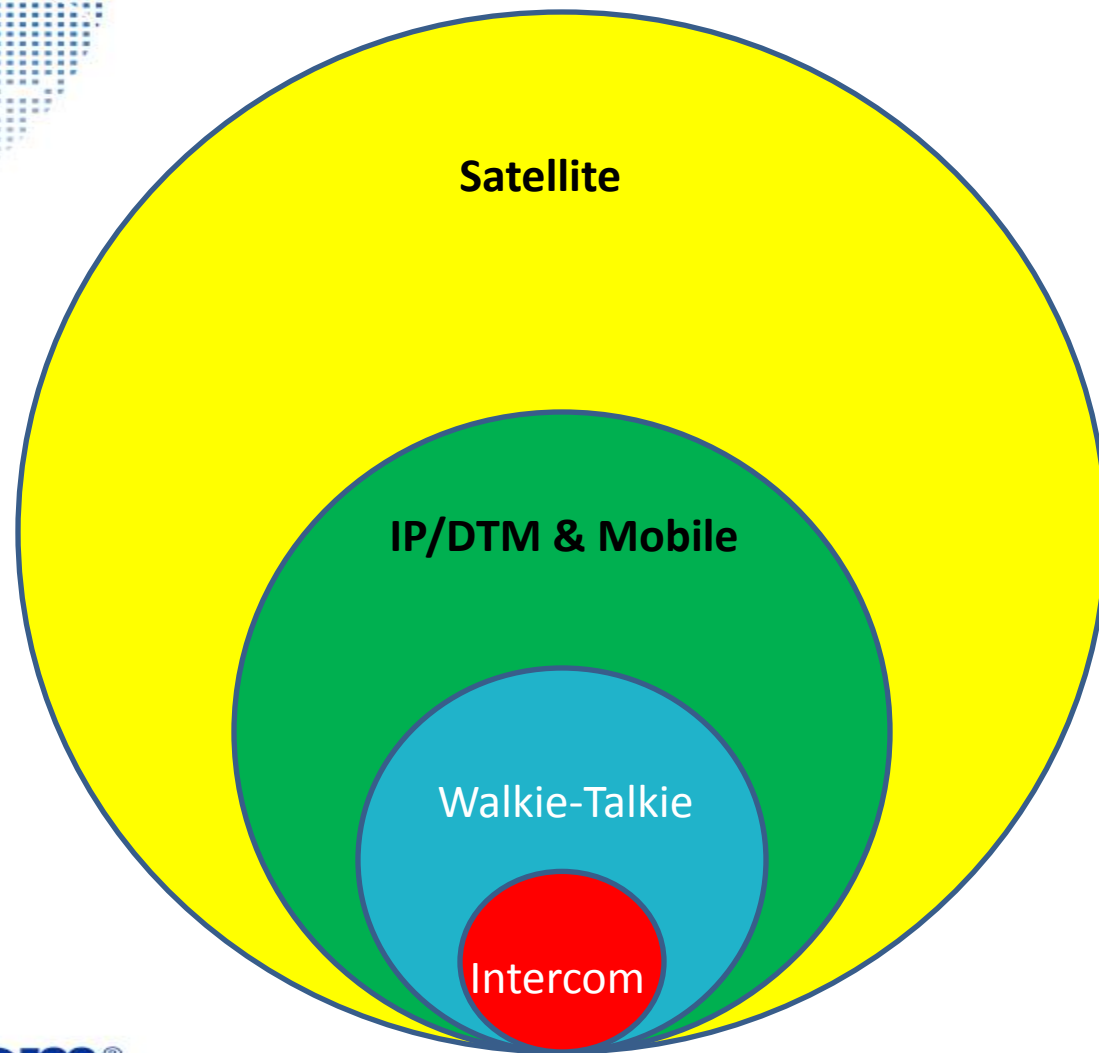


构建基于IP与云端的大通讯系统

Clear-Com 新技术及应用

吴琼

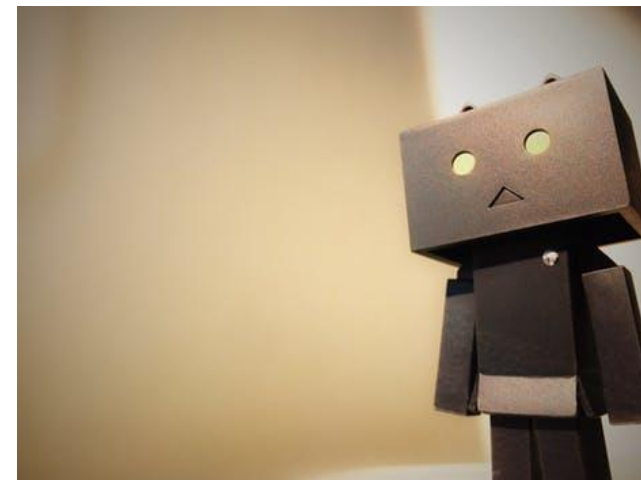
现有通讯方式



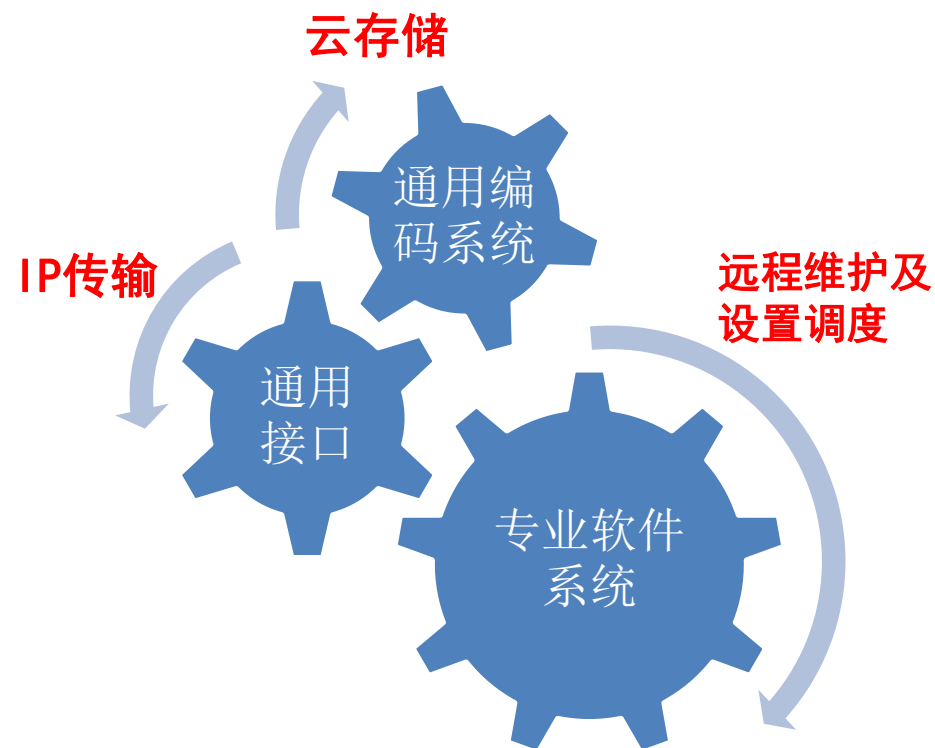
传统内通的发展瓶颈

传统内通在向指挥调度中心功能转化

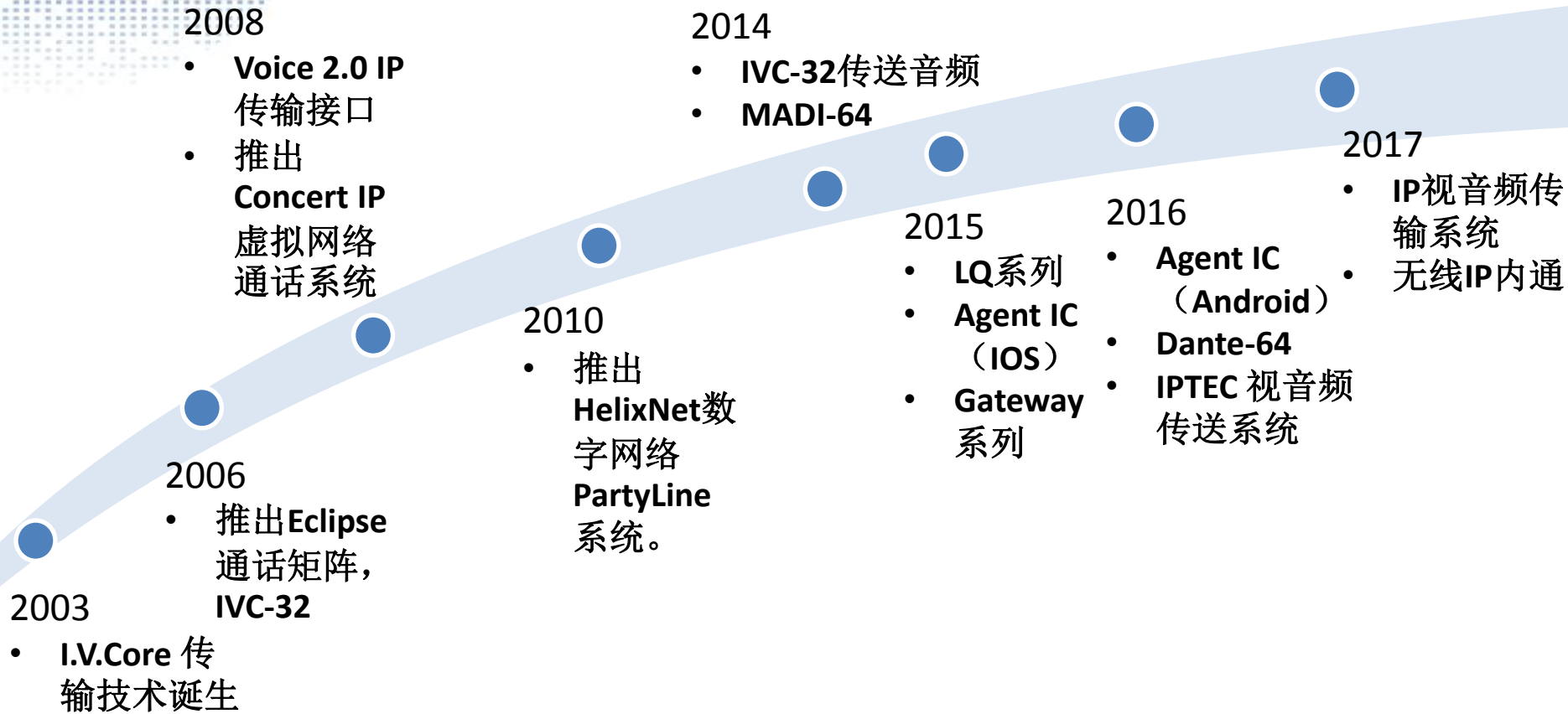
- 硬件设备繁多，资金占用庞大
- 技术标准不统一，智能互联互通困难
- 控制协议不通，系统资源无法共享
- 技术更新频繁，服务与支持较难跟进
- 个性化（定制化）服务与资源配置较难实现



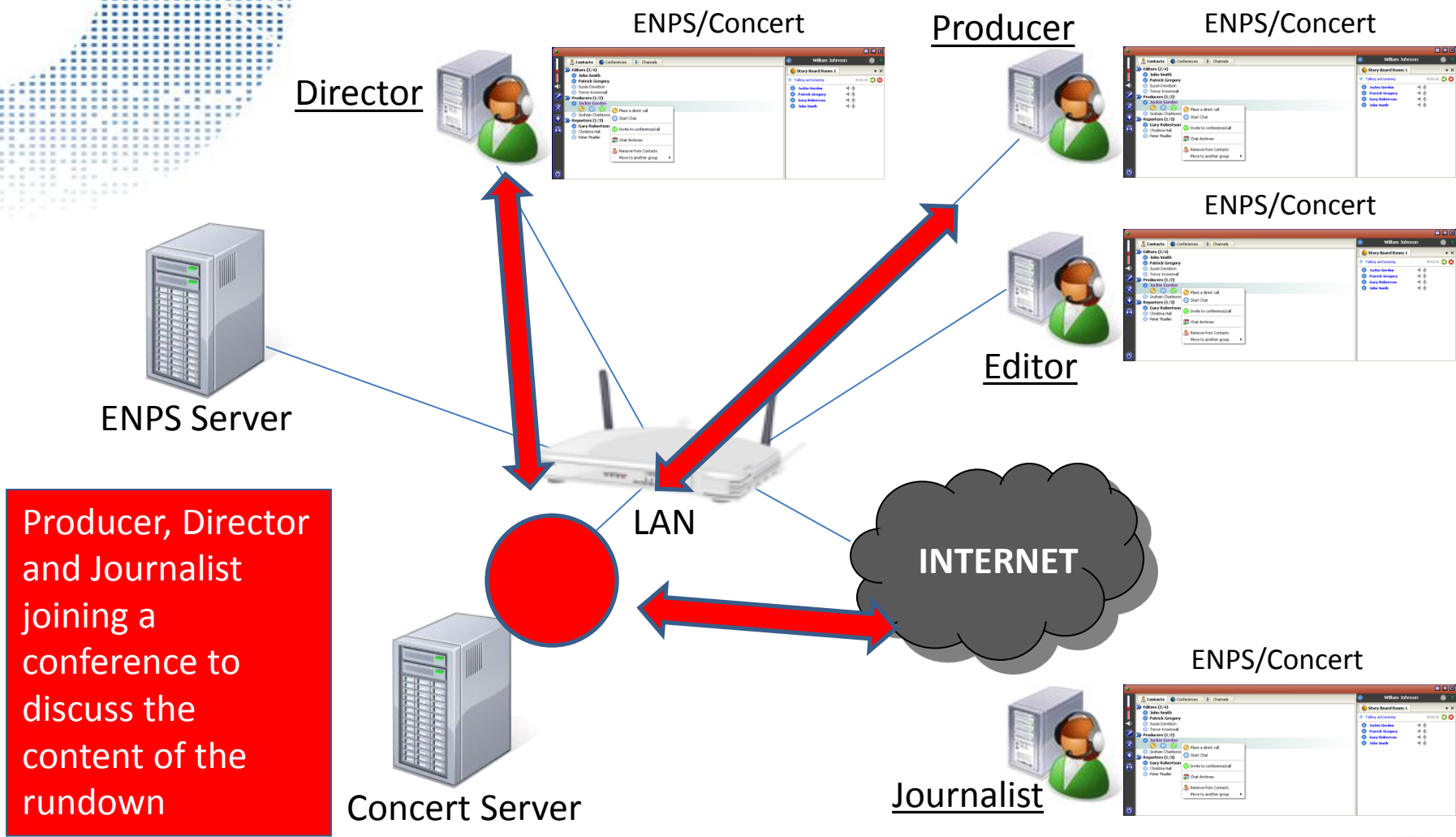
专业内通的未来方向



Clear-Com 的IP化进程

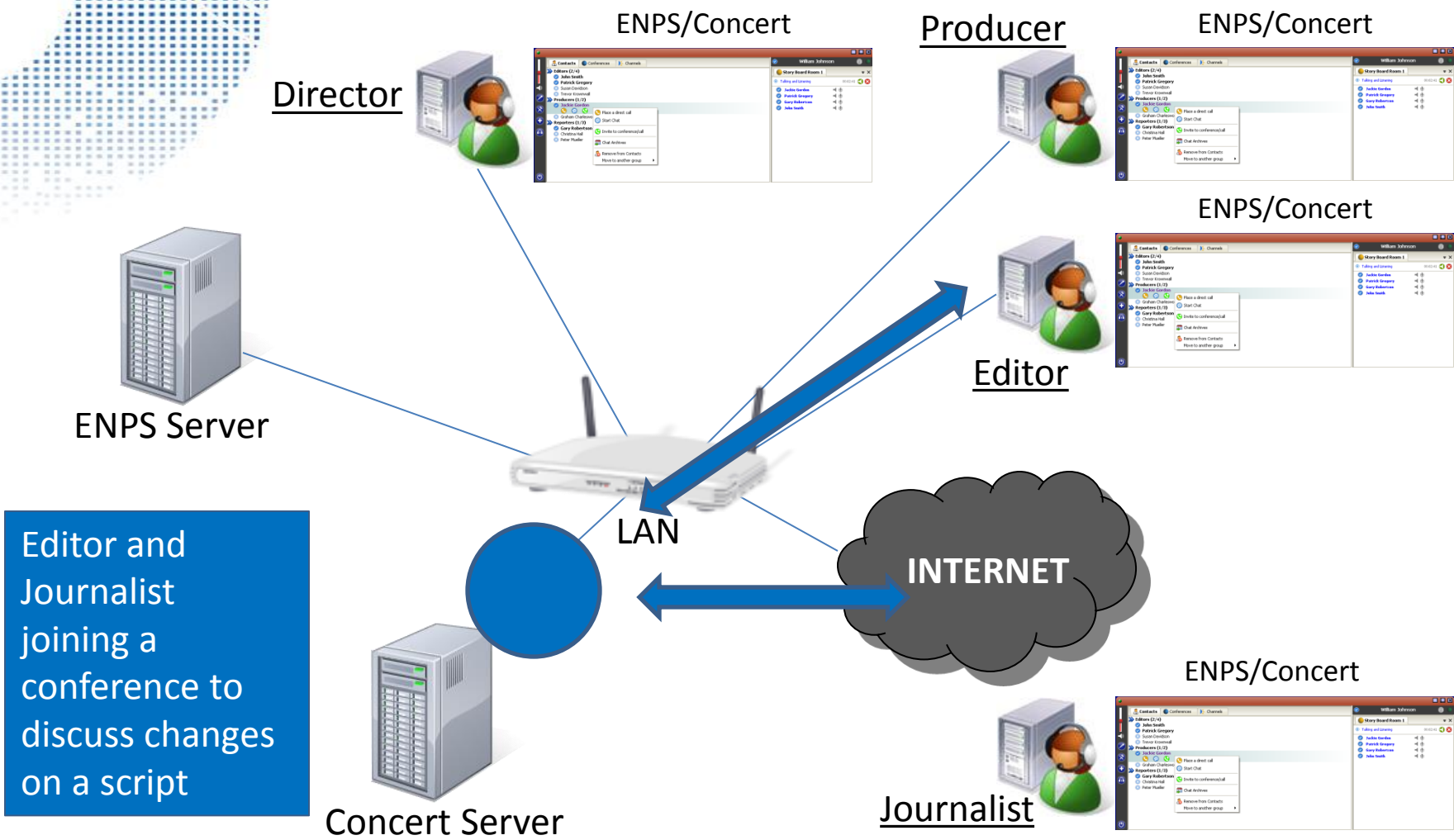


2010- Concert / ENPS

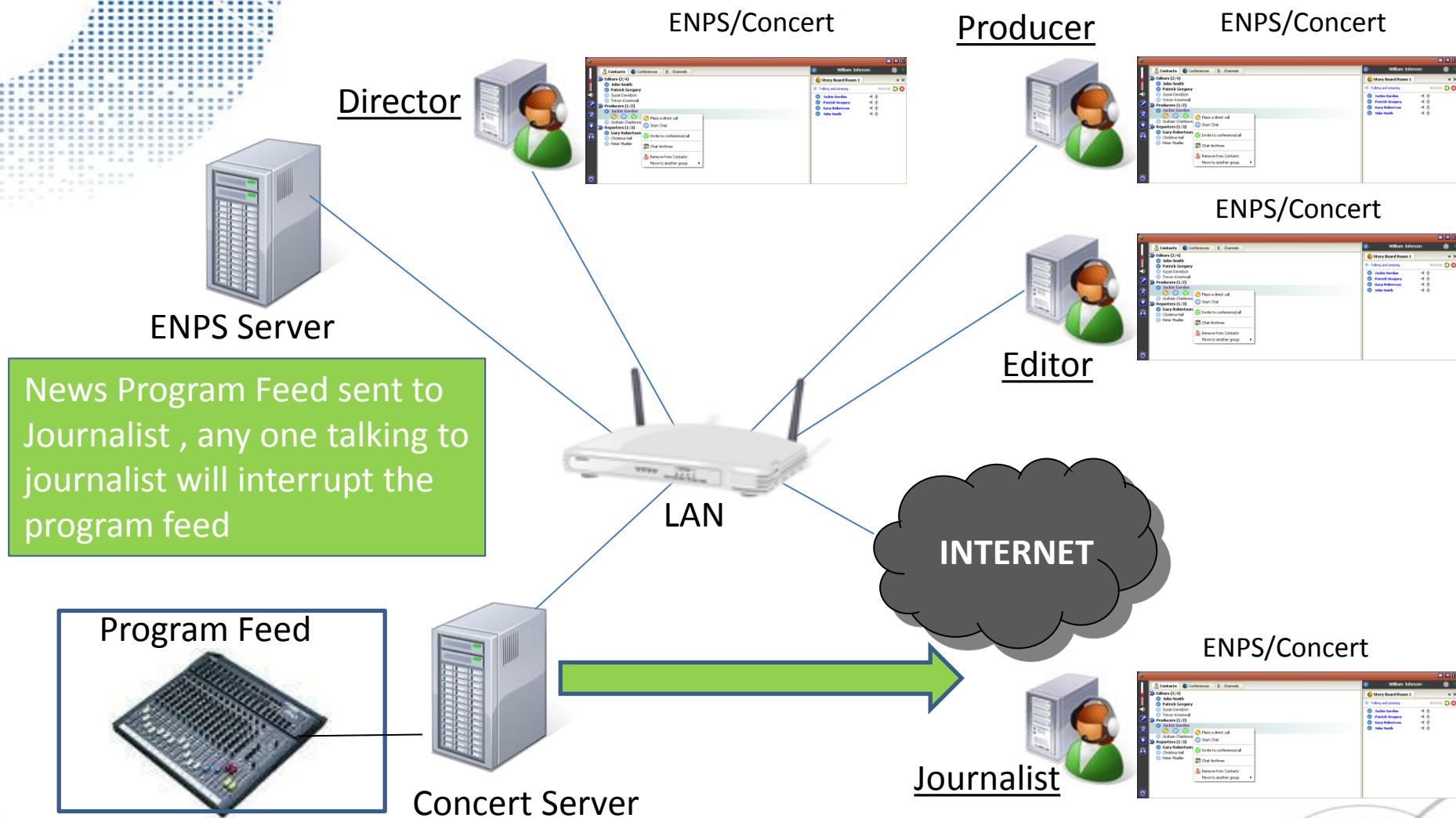


Producer, Director and Journalist joining a conference to discuss the content of the rundown

2010- Concert / ENPS



2010- Concert / ENPS



Clear-Com 现有支持IP化的产品

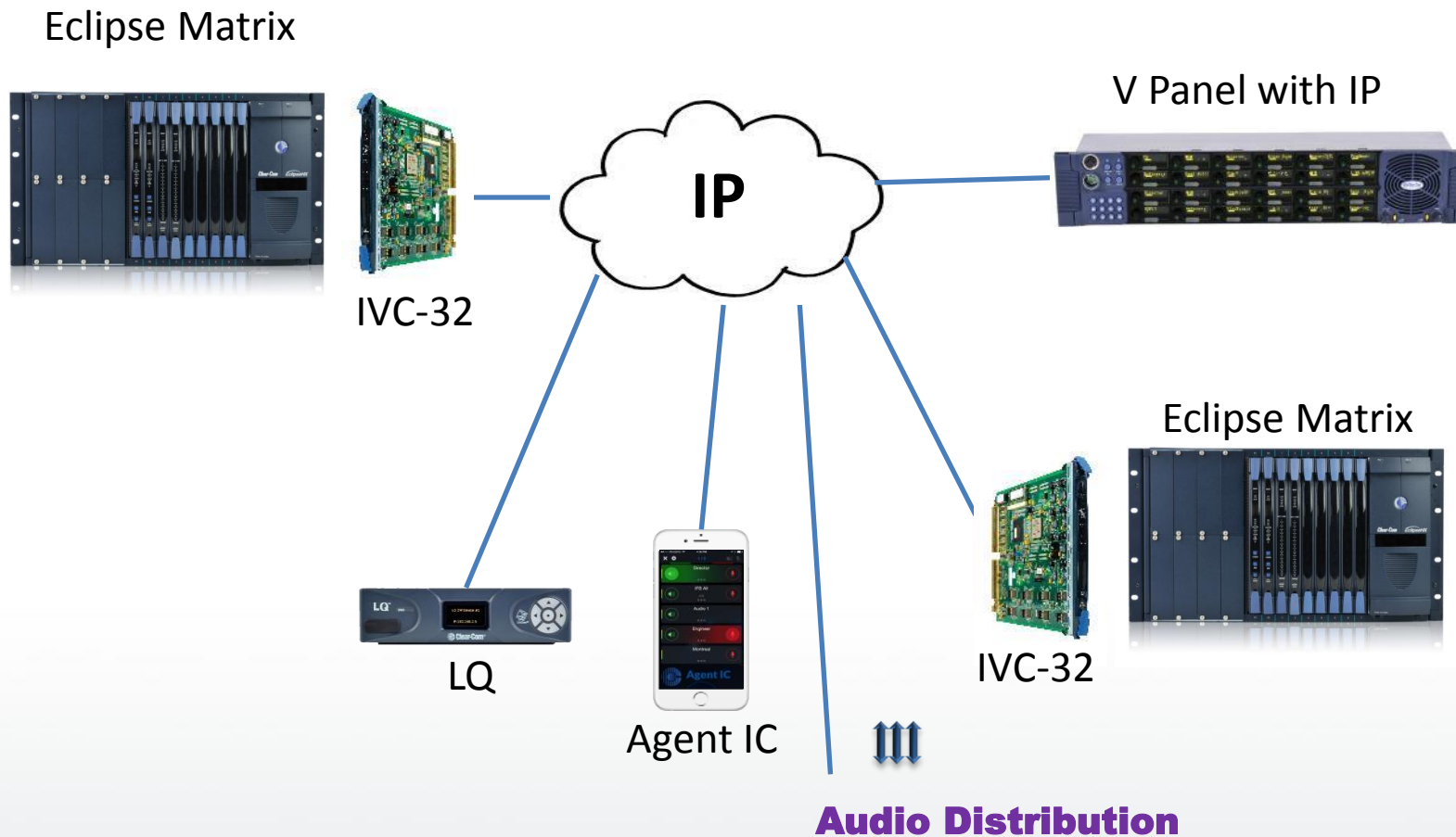


IVC-32 IVC-64 E-Dante/64

Eclipse HX 矩阵系统

Clear-Com 现有支持IP化的产品

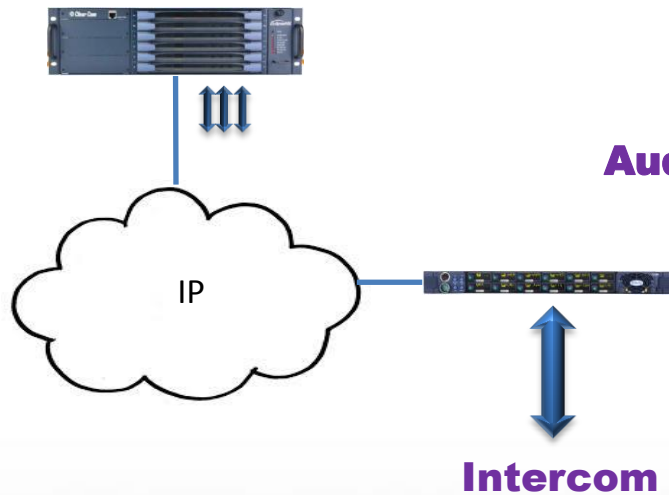
内通系统 + 音频传输



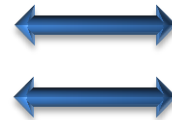
Clear-Com 现有支持IP化的产品

Multi-channel IP V-Series

Intercom + Audio Distribution



Audio Distribution



Intercom

PA systems



Binaural Headsets



2-way Radios



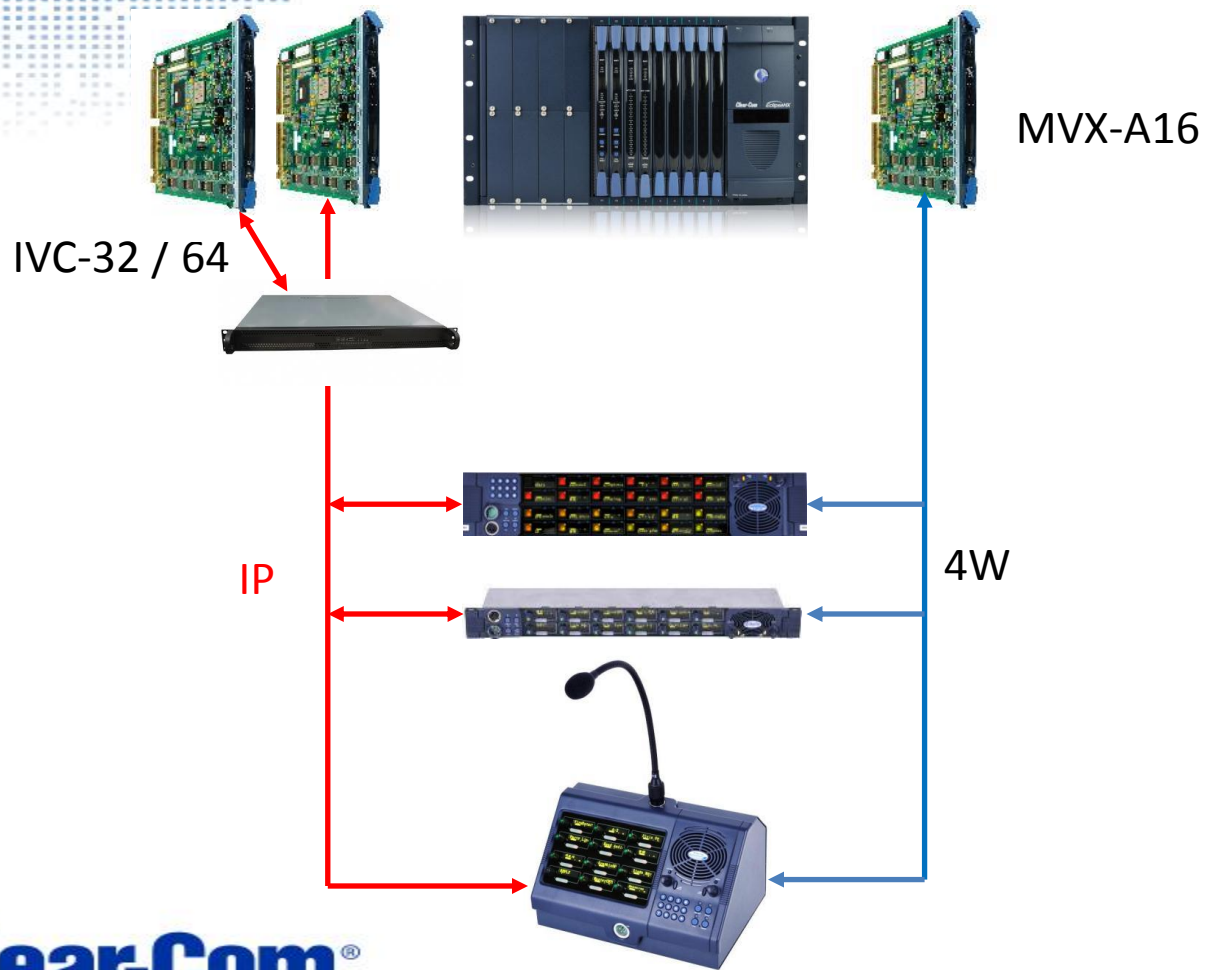
Wire-less Systems



PL Systems



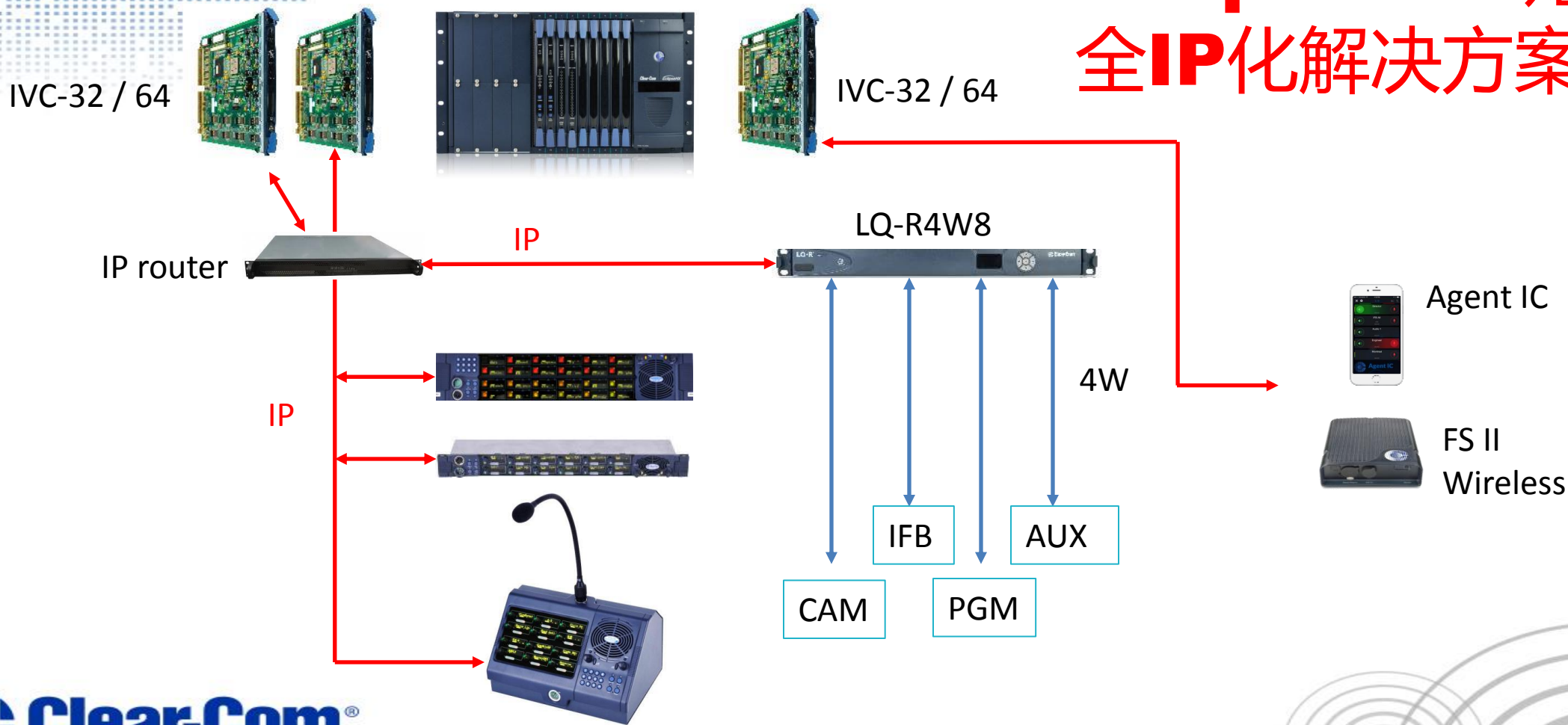
Clear-Com 现有支持IP化的产品



Eclipse HX 矩阵
单核双网自愈系统

Clear-Com 现有支持IP化的产品

Eclipse HX 矩阵 全IP化解决方案

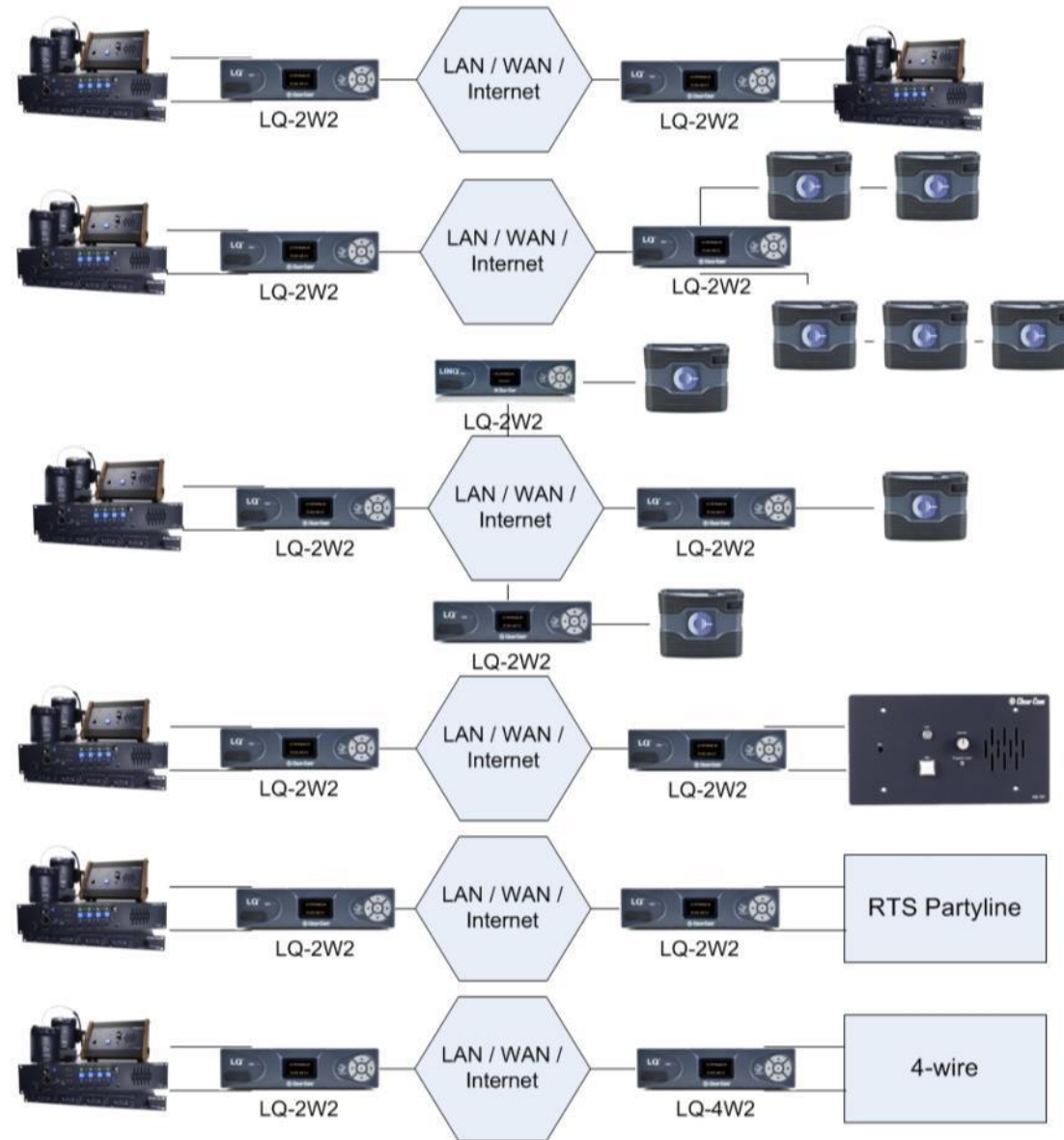


Clear-Com 现有支持**IP**化的产品

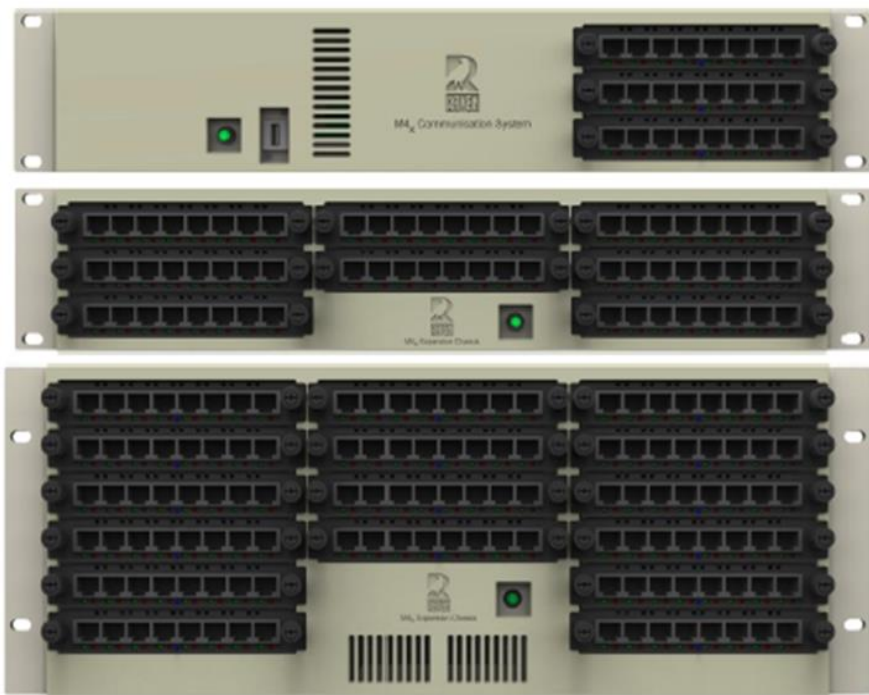
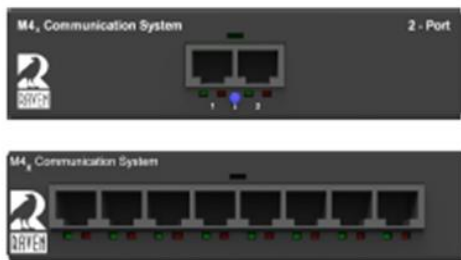
LQ / LQ-R 系列网
络音频转换接口系统



Clear-Com 现有支持IP化的产品



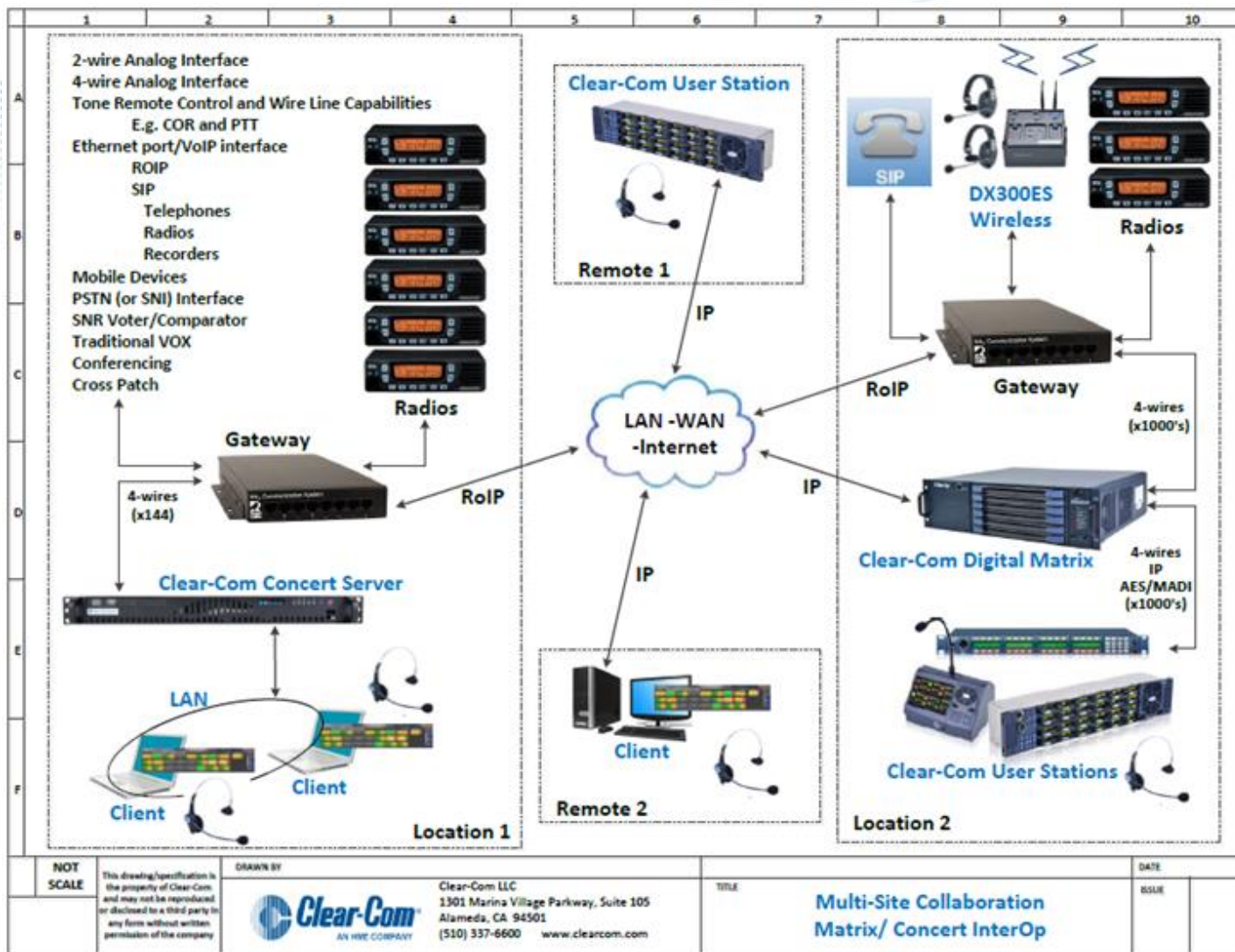
Clear-Com 现有支持IP化的产品



- **2/4 Wire Module:**
For connecting intercom, radio and audio sources.
- **VOIP Module:** SIP and Radio over IP with Unicast and Multicast modes.
- **Digital Radio Module:** Supports P25, Kenwood, ICOM, Hytera, and Motorola digital radios.

Gateway
系列网络
接入系统

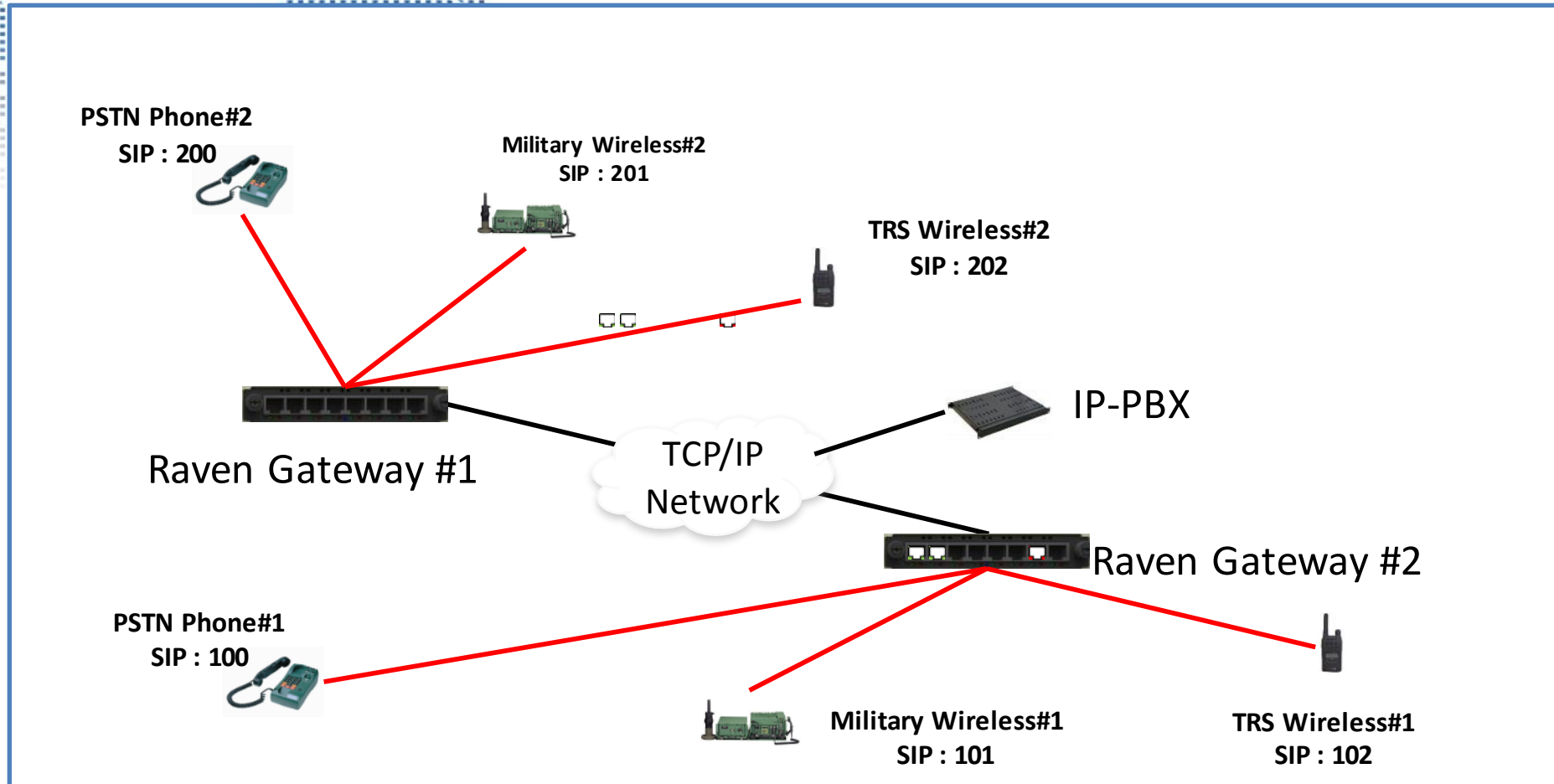
Clear-Com 现有支持IP化的产品



Gateway 系列网络 接入系统

Clear-Com 现有支持IP化的产品

Gateway 系列网络 接入系统



Clear-Com 可支持云端化的产品

Concert IP



Agent-IC



Clear-Com 可支持云端化的产品

Concert IP

▶ Concert Server

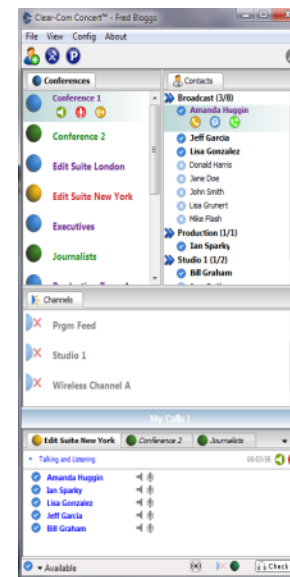
- 基于IP处理的中央音频处理引擎可同时支持2W、4W音频路由及控制信号处理调度
- Linux操作平台(CentOS 6.2 or RHEL 6)
- 可单独服务器运行，也可云端配置，也可以设置为虚拟服务器运行

▶ Concert 客户端

- 可作为实体系统终端或虚拟通话面板
- 在计算机或笔记本终端运行
- 与实体面板或通话终端智能互通
- 可在 Windows 或 MAC OS X 10.5 and 10.6或更高系统

▶ Concert Management Interface (CMI)

- ▶ 可管理用户终端、会议、通道、接口、授权以及事件管理



Clear-Com 可支持云端化的产品

Agent IC IOS 平台

IOS 8.0+

iPad

Min

2/Air

iPhone

iPod

4th/5th Gen



4



5/S/C



6



6+



Clear-Com 可支持云端化的产品

Agent IC Android 平台

Android 5.0+

平板电脑

手机

手表

MOTO



SONY



MI ZTE Vivo

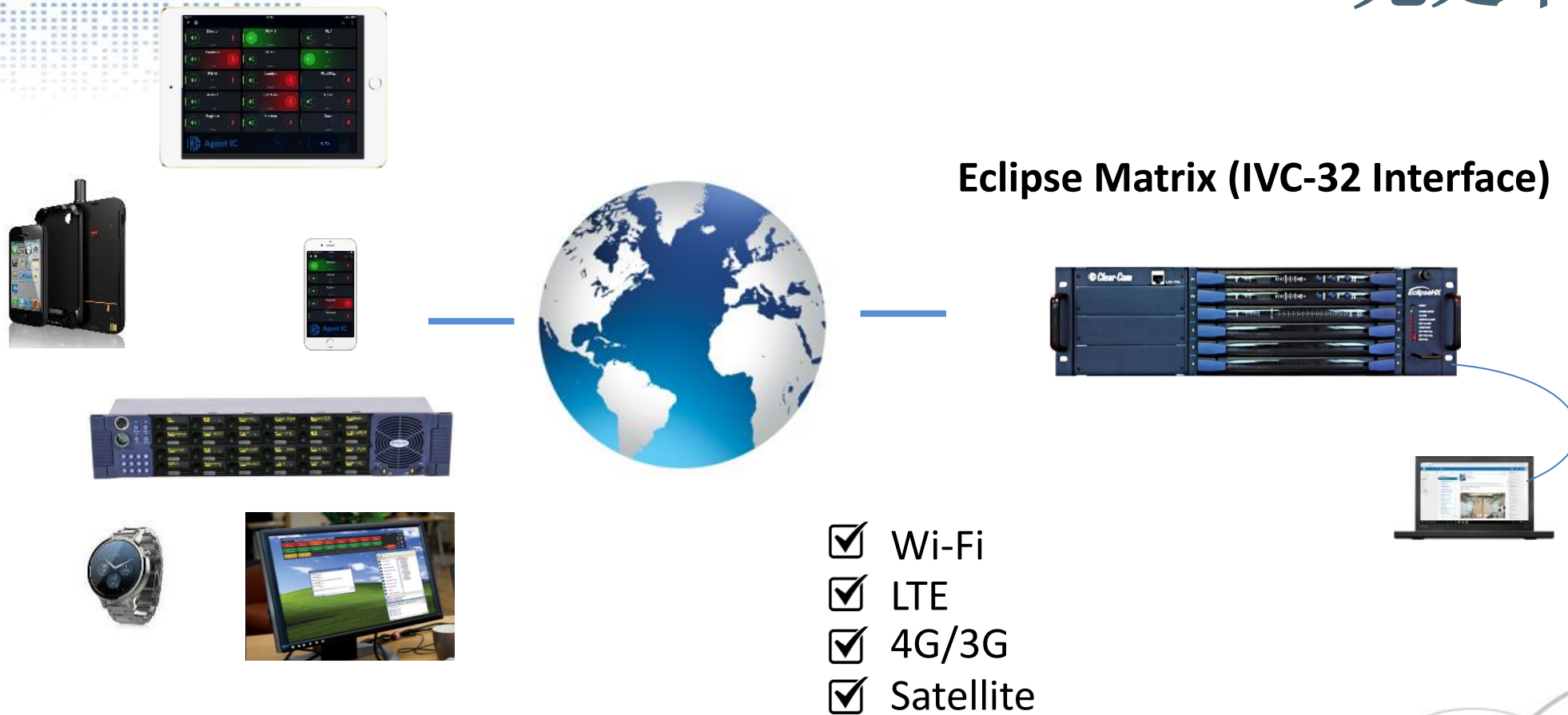
HUAWEI Coolpad

.....



Clear-Com 可支持云端化的产品

无处不在！

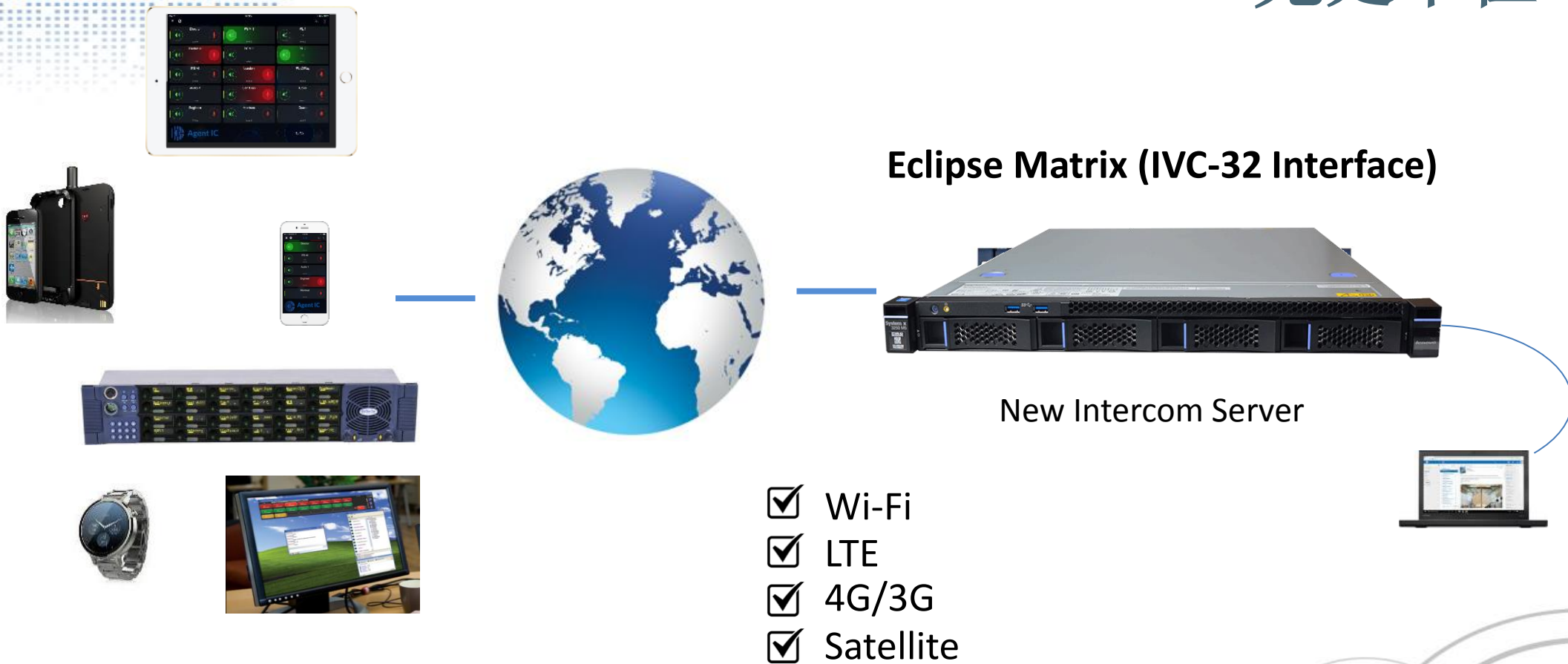


Eclipse Matrix (IVC-32 Interface)

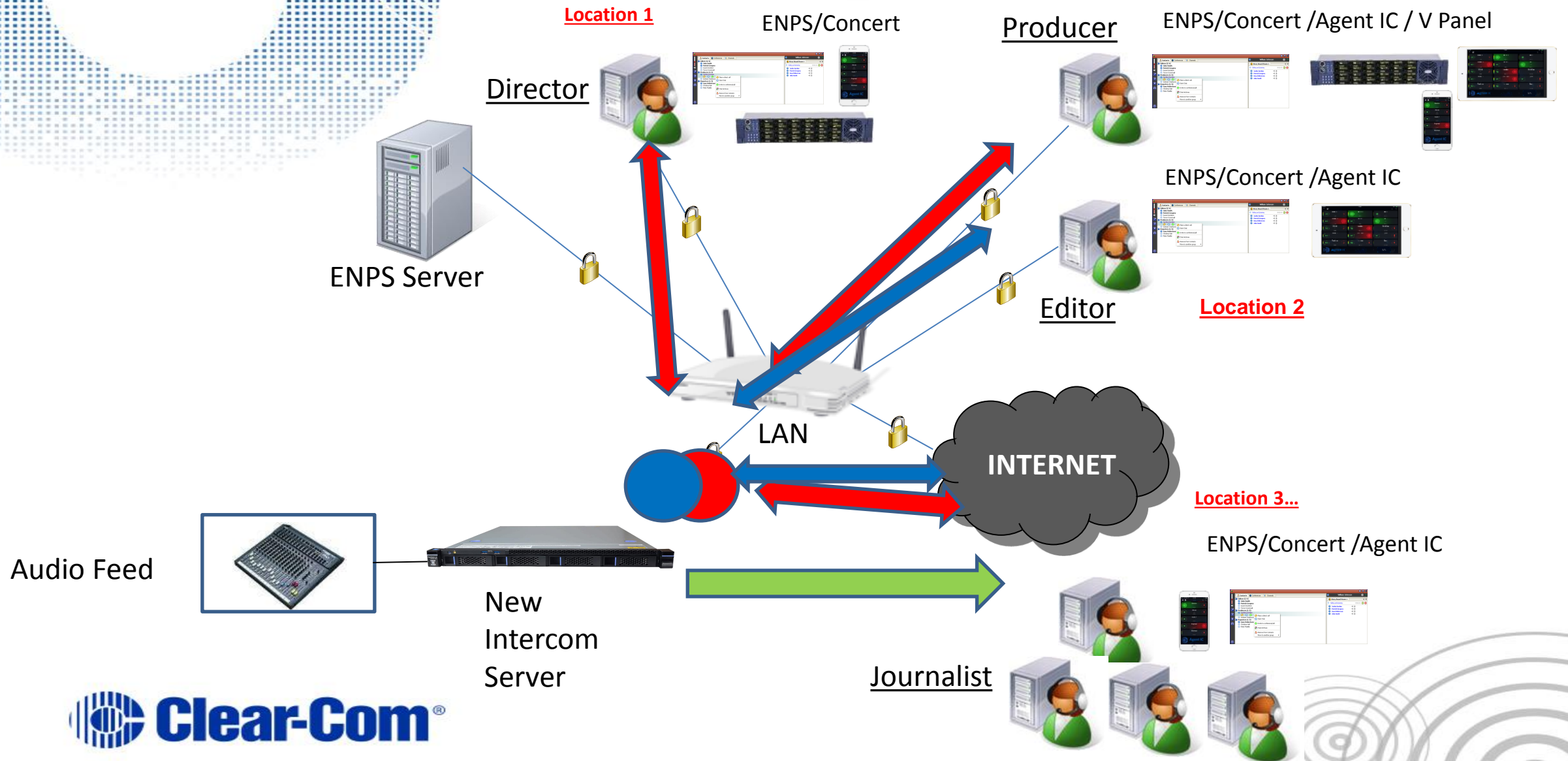
- ✓ Wi-Fi
- ✓ LTE
- ✓ 4G/3G
- ✓ Satellite

Clear-Com 可支持云端化的产品

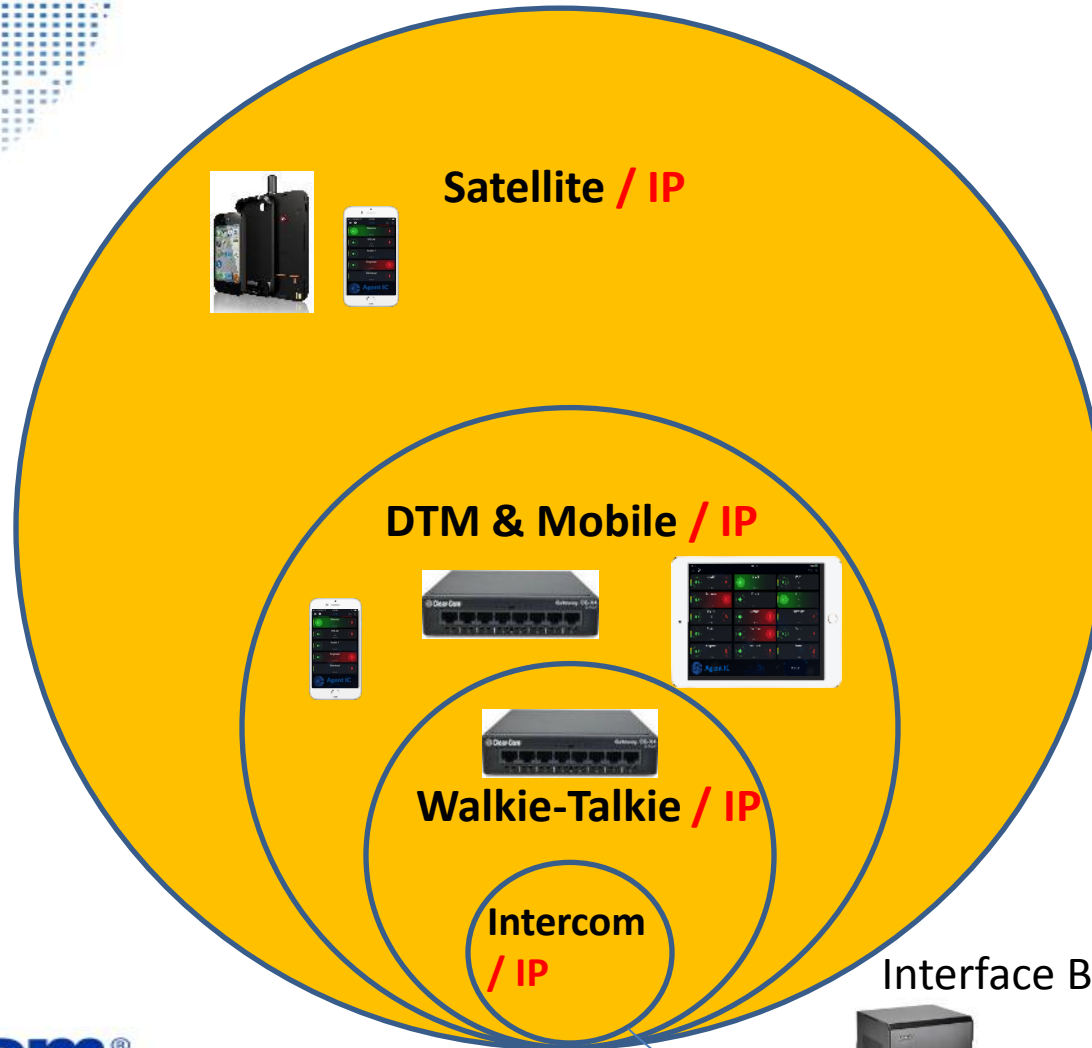
无处不在！



201?- Concert / Agent IC / ENPS



基于IP / i Cloud



通讯无所不在

系统任意组合设定

OTT 增值服务

远程维护

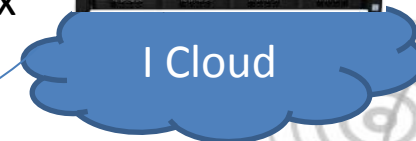
New Intercom Server



Interface Box



i Cloud



主题公园系统的新宠



Disney 上海 – Ride系统



Disney 上海 – Entertainment系统



Disney LA 系统



Disney HK 系统

新型主题剧院系统的新宠



Han Show – Entertainment系统



体育赛事

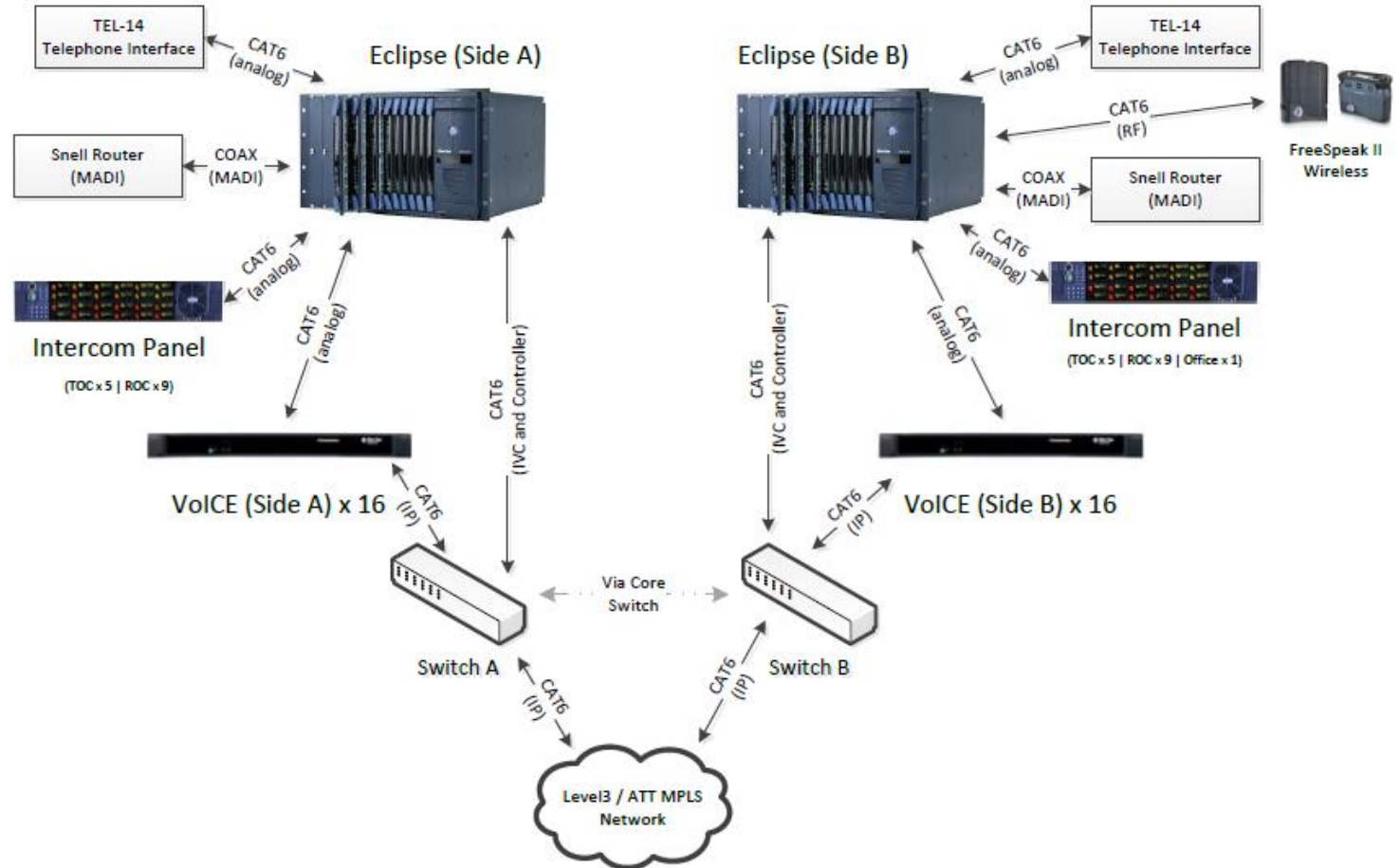


MLB 棒球回放系统 - 网络运营中心



Boston

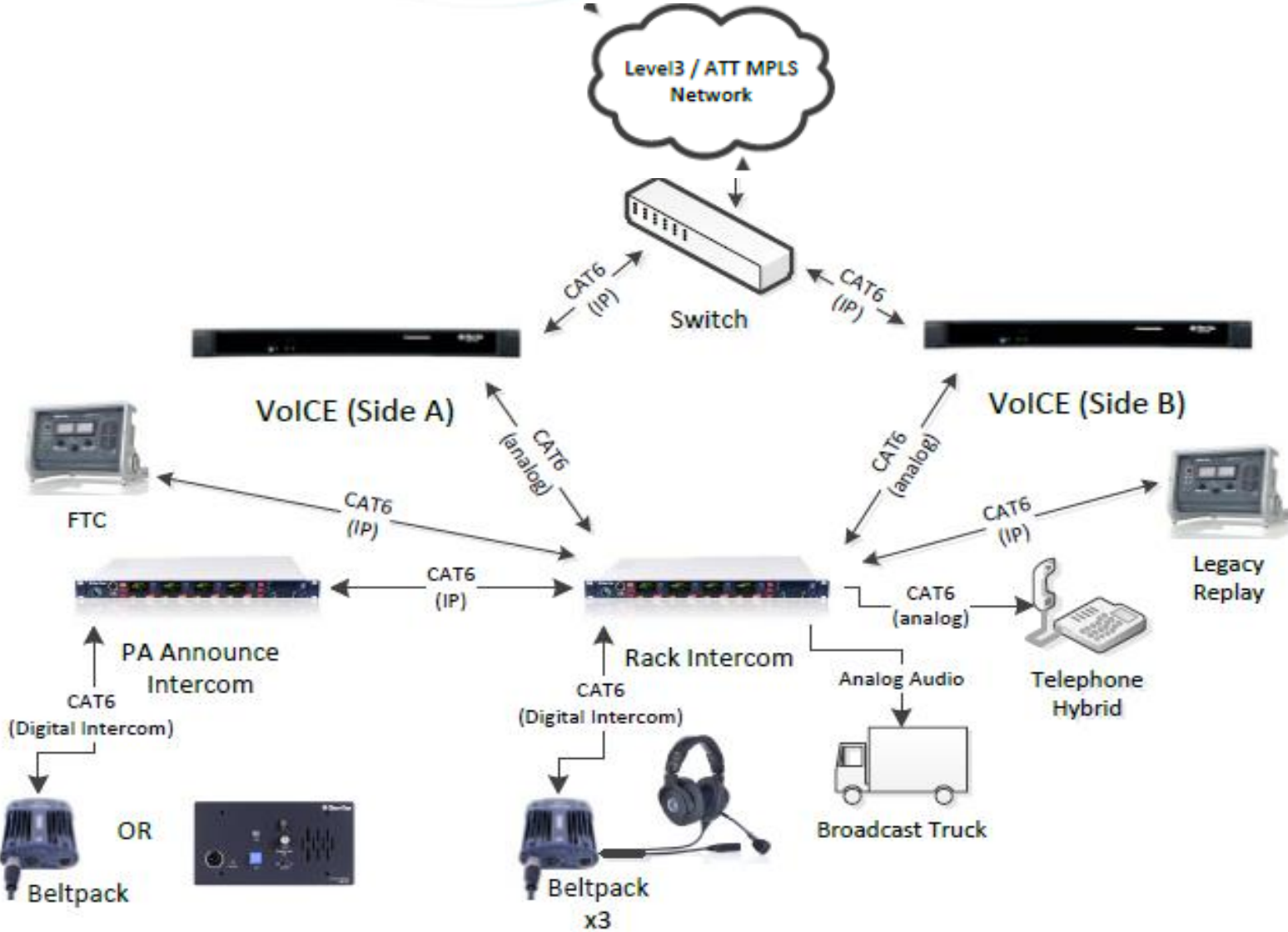
Los Angeles



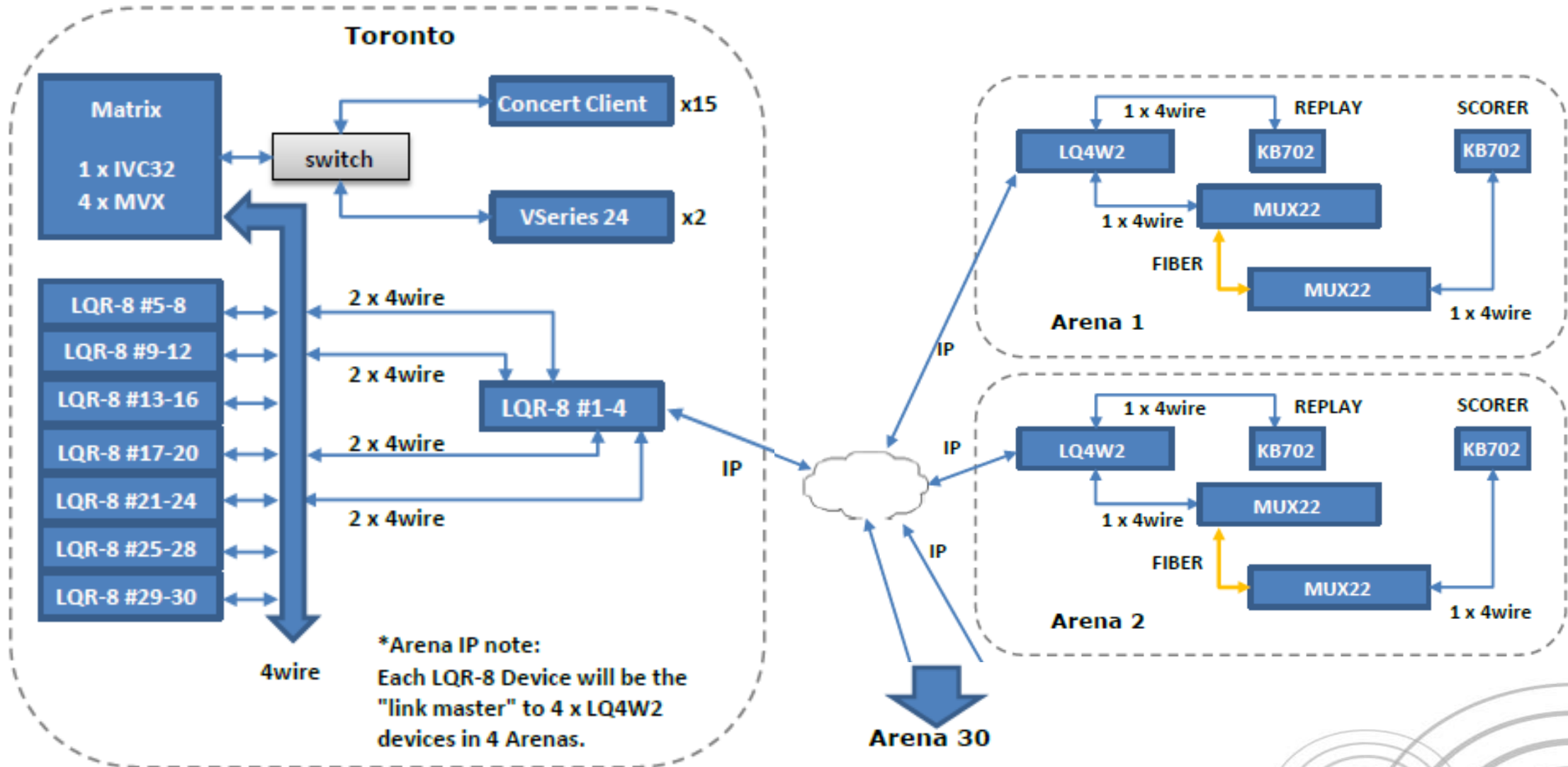
MLB 棒球回放系统 - 现场



Ballpark



NHL 曲棍球球员回放系统



CSL 中超赛事传输系统



- ◆ 音视频传输系统
 - Clear-Com IPtec VNP-100 (H.264 12Mbps@4:2:2 10-bit)
- ◆ 通话指挥系统
 - Clear-Com Eclipse Delta over IP



Thank You