



INDUSTRIAL AUDIO COMMUNICATION



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SOLUTIONS FOR AUDIO COMMUNICATION SYSTEMS


Thanks to its large experience, today Telea Tecnovision is a proprietary of an audio communication server based platform that allow to manage a wide range of systems as:

- HEAVY-DUTY INDUSTRIAL INTERCOM (also ATEX version available)
 - PAGA ADDRESS & GENERAL ALARM SYSTEMS (PAGA)
 - INDUSTRIAL PHONES & INTEGRATION with RADIO DEVICES





PURPOSES

GALAXY  is the new TELEA's audio matrix developed to satisfy the specific necessities of:

AUDIO SYSTEMS OF MEDIUM AND GREAT SIZES

INTEGRATION WITH AUTOMATION SYSTEMS

UPGRADING OF EXISTING PLANTS



APPLICATIONS

GALAXY 



ALL IN ONE

INDUSTRIAL INTERCOM

SOUND DIFFUSION

PUBLIC ADDRESS & GENERAL ALARM (PAGA)

INTERCOM/VIDEO-INTERCOM

INDUSTRIAL TELEPHONY

RADIOCOMMUNICATION

MAIN FEATURES



HYBRID, MODULAR, FLEXIBLE design

DIGITAL Communication, VoIP

Standard Protocol (SIP)

Simplified operators' interface

Integration with other systems
(CCTV, Fire&Detection, Video information,
Automation..)

Employment of third's part devices

ADVANCED DIAGNOSTICS functions

SYSTEM DEVICES



- AUDIO SERVER
- TOUCH STATION / CONSOLE
- ACCESS PANEL
- GATEWAY / CODEC AUDIO
- AMPLIFIERS
- INTERCOM DEVICES
- TELEPHONE DEVICES
- VHF/UHF RADIO
- INTERCOM / VIDEO-INTERCOM
- LOUDSPEAKERS / LOUDHAILERS



SYSTEM DEVICES: AUDIO SERVER

Telea GALAXY Server is the heart of GALAXY systems, providing the best performances:



GALAXY



GALAXY ALERT



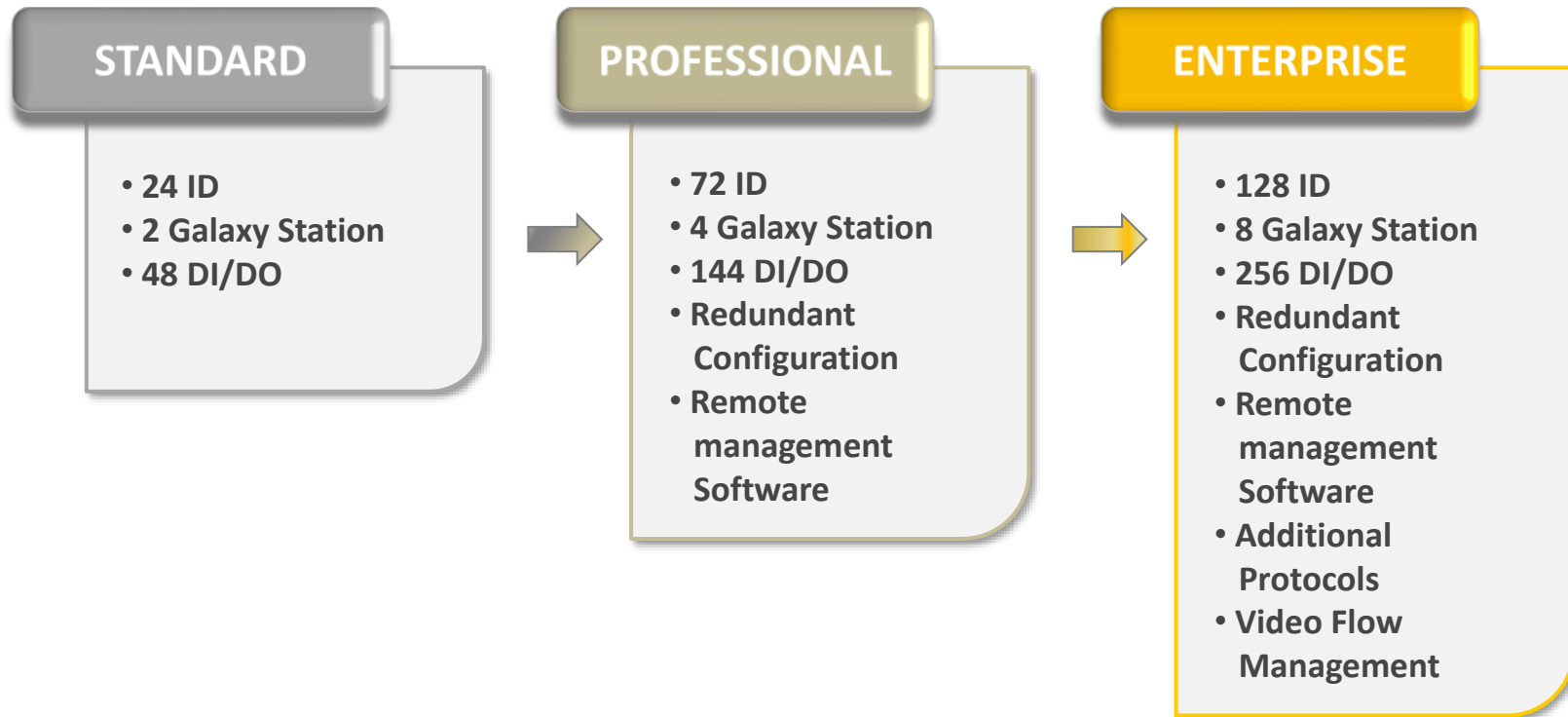
GALAXY REMOTE MANAGEMENT SOFTWARE



- Standard SIP VoIP Communication
- Control up to 128 devices (Gateway and Telea GALAXY Station, intercoms..)
- Redundant design with Galaxy Alert
- Management of analogue devices and amplifiers through Gateway
- Selective, group and general calls
- PABX Communication through Gateway
- Priority levels, signals, tones and alarm messages management
- Remote Management Software for configuration, maintenance and remote diagnostic

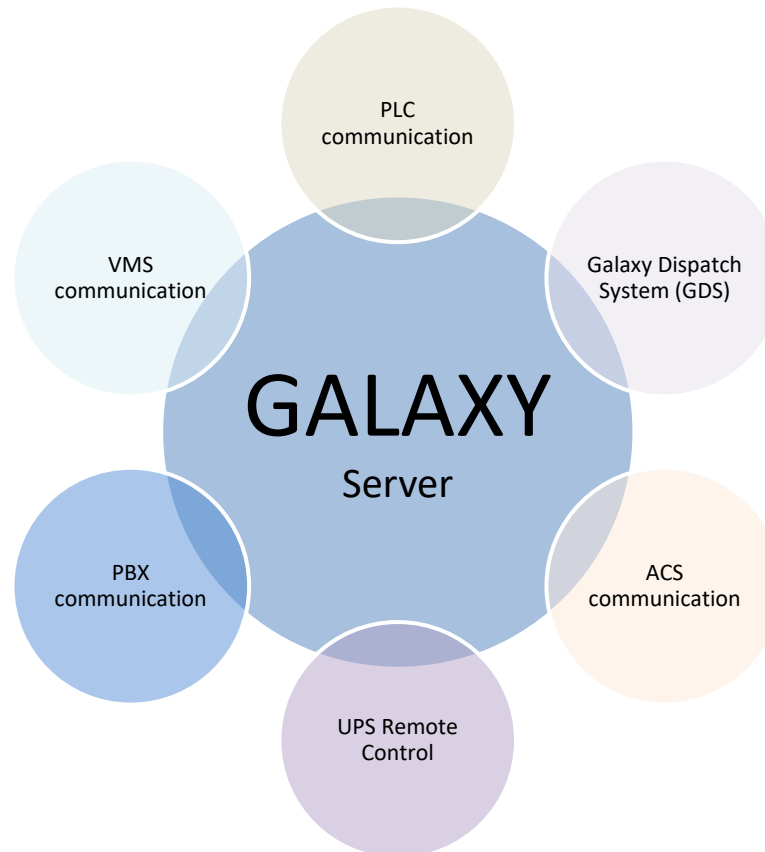
SYSTEM DEVICES: AUDIO SERVER

Three different versions available with increasing functional levels:



SYSTEM DEVICES: AUDIO SERVER

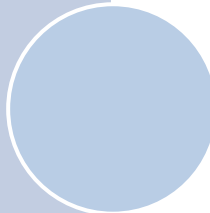
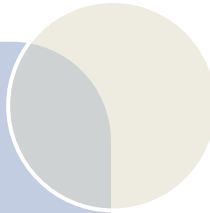
Different «Add On» software are available for expand server functionality



SYSTEM DEVICES: AUDIO SERVER

PLC Communication

Enable communication over Ethernet with process automation (PLC) based on MODBUS TCP/IP (other also available)



ADD ON
SOFTWARE

SYSTEM DEVICES: AUDIO SERVER

Galaxy Dispatch System (GDS)

Enable communication over Ethernet with Digital Mobile Radio (DMR) for communication and advanced functionality

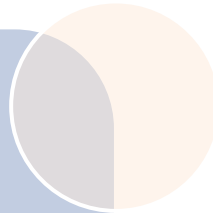


ADD ON
SOFTWARE

SYSTEM DEVICES: AUDIO SERVER

Enable communication over Ethernet with Access Control System, usefull for:

- Set icon on maps;
- Switch camera image;
- Display diagnostics status



ACS communication

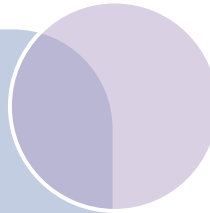


ADD ON
SOFTWARE

SYSTEM DEVICES: AUDIO SERVER

Enable communication over Ethernet with UPS device, usefull for:

- Display diagnistics status
- Set a recorded message call



UPS management

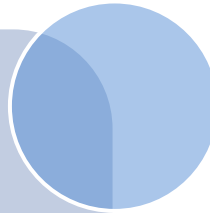


ADD ON
SOFTWARE

SYSTEM DEVICES: AUDIO SERVER

Enable communication over Ethernet with PBX device, usefull for:

- Manage trunk connection to phone system
- Access to loudspeaker from phone system



PBX communication



ADD ON SOFTWARE

SYSTEM DEVICES: AUDIO SERVER

Enable communication over Ethernet with VMS Matrica software

- Manage CCTV display and switch cameras on monitors
- Send presets command to CCTV systems



VMS communication



ADD ON SOFTWARE

SYSTEM DEVICES: TOUCH STATION

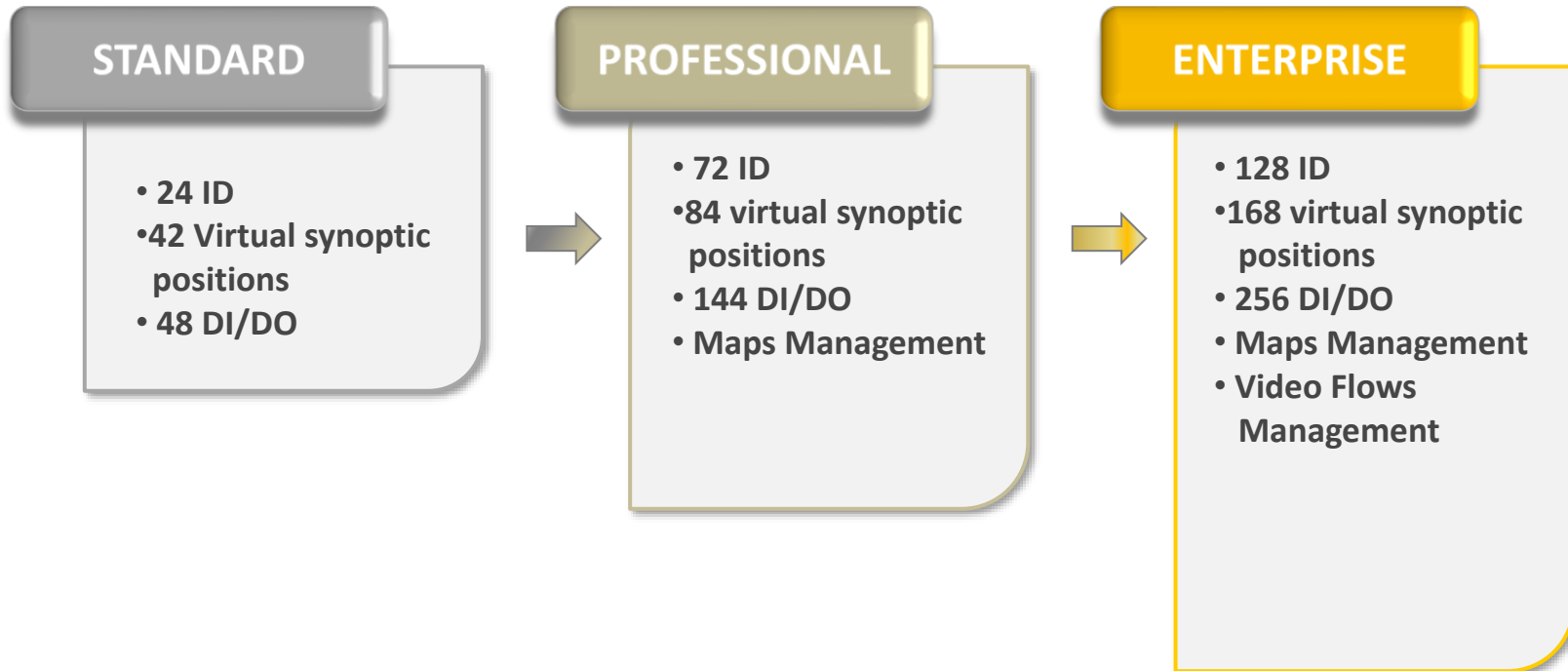
Telea GALAXY Touch Station is a series of console based on integrated PC platforms with touch screen and graphic interface to manage and perform communication within Telea GALAXY systems.



- VoIP Communication
- Up to 168 virtual slots
- Configurable as buttons or signals
 - Maps management
- Video signal management
- Priority levels management
- Management of signals, tones and alarm messages
 - Models from 15" to 20"

SYSTEM DEVICES: TOUCH STATION

Three different versions available with increasing functional levels:



SYSTEM DEVICES: AMPLIFIER



PA-1480



PA-1122



PA-4240



PA-40120

- Power Amplifiers with 100V output
- Power from 120W_{RMS} up to 960W
 - From 1 to 4 areas
- Channel levels indicator / tones regulation
- Protection from overtemperature / overcharge / overdriving
 - Power input back-up 24Vdc
- Diagnosis of loudspeaker lines' integrity
- Commutation on reserve loudspeaker

SYSTEM DEVICES: IP AMPLIFIERS



- Amplifiers with VoIP management
 - Power from 4W up to 40W
 - Possibility to manage 100V lines
- Power amplifier management through codec audio

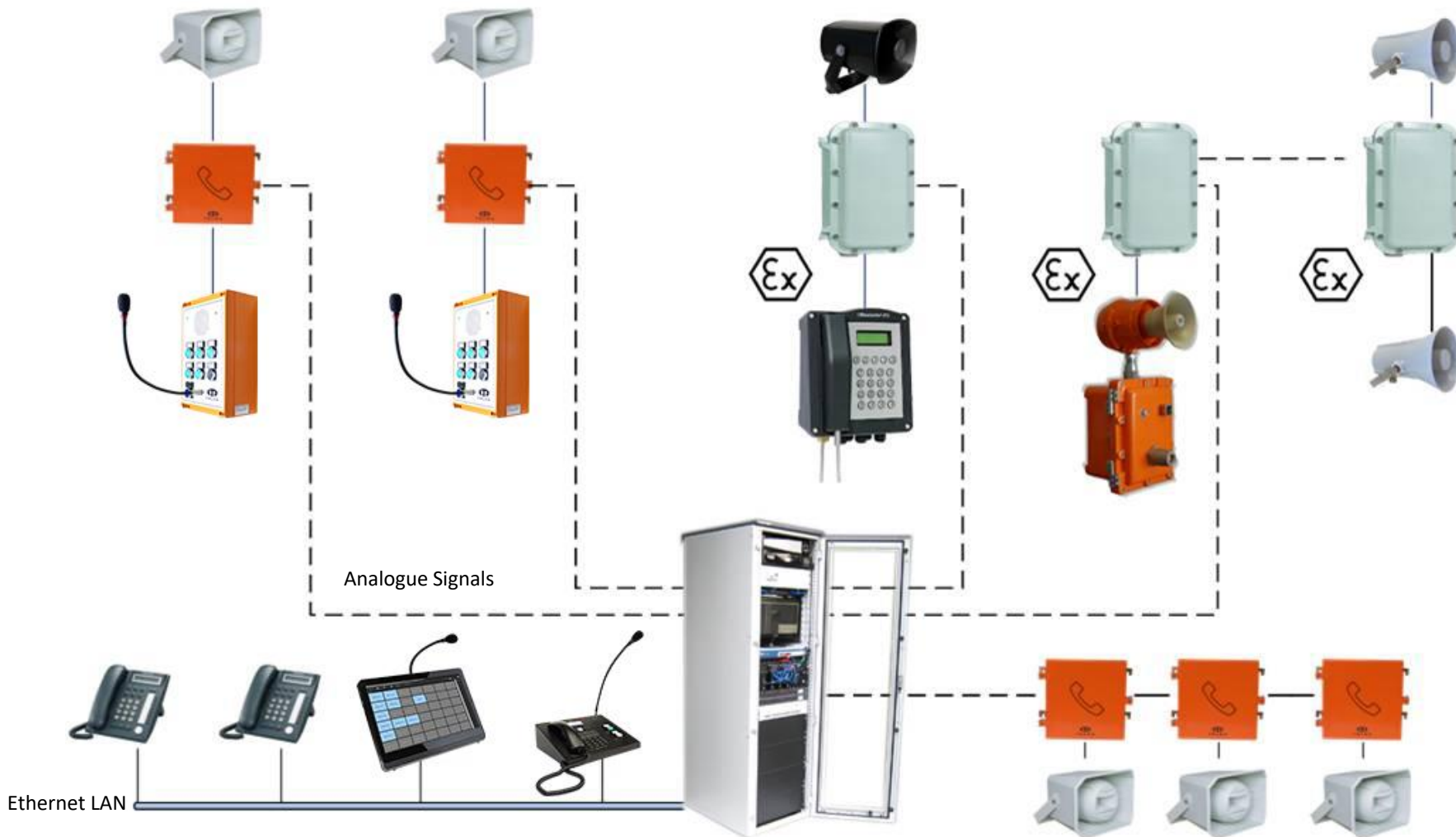
SYSTEM DEVICES: VHF/UHF RADIO TERMINALS



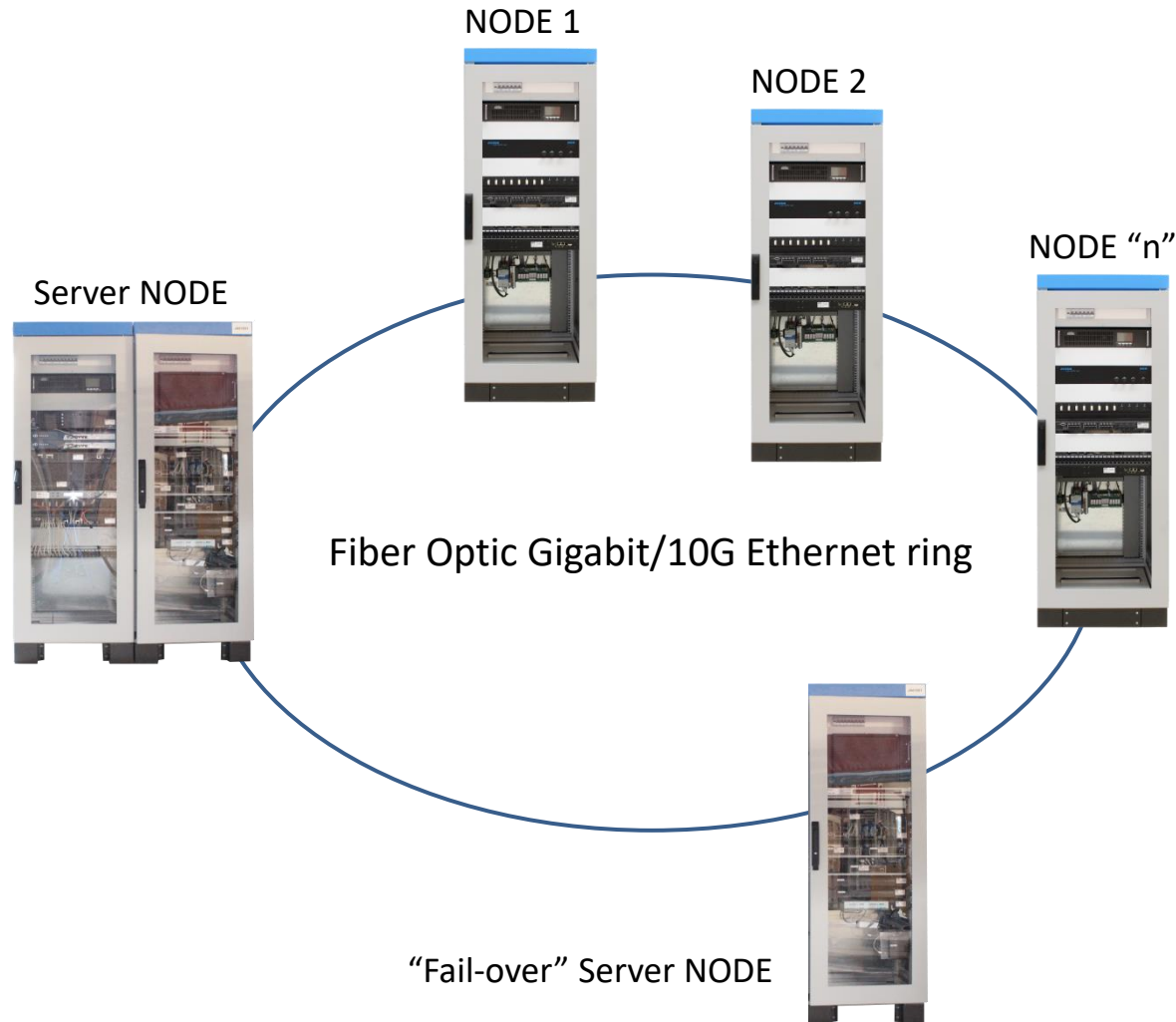
- VHF/UHF Radio Driven Amplifiers
 - Emergency SOS BOX
 - Operating Call BOX
- Crane to ground communication



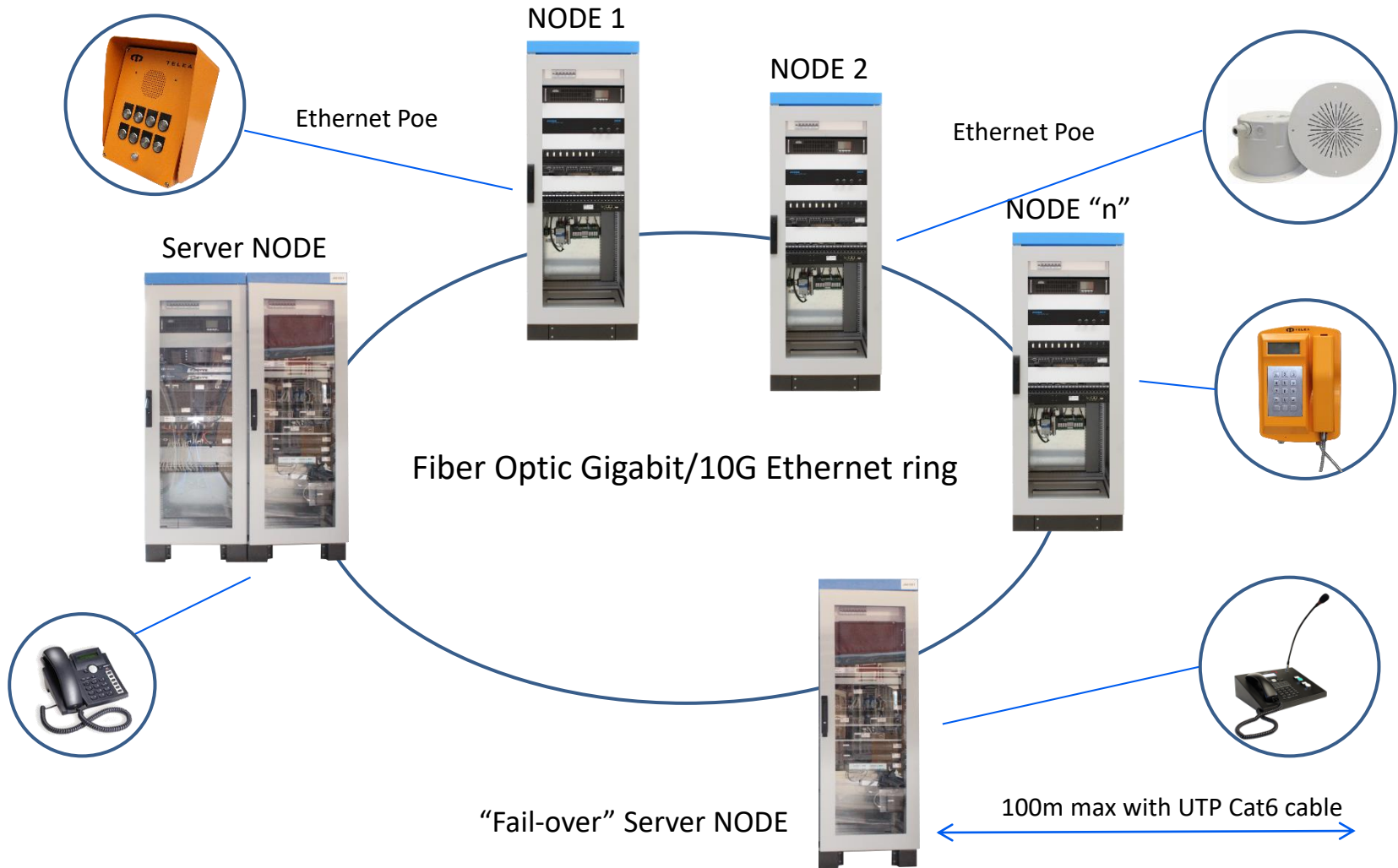
ARCHITECTURE: HYBRID INTERCOM / PA



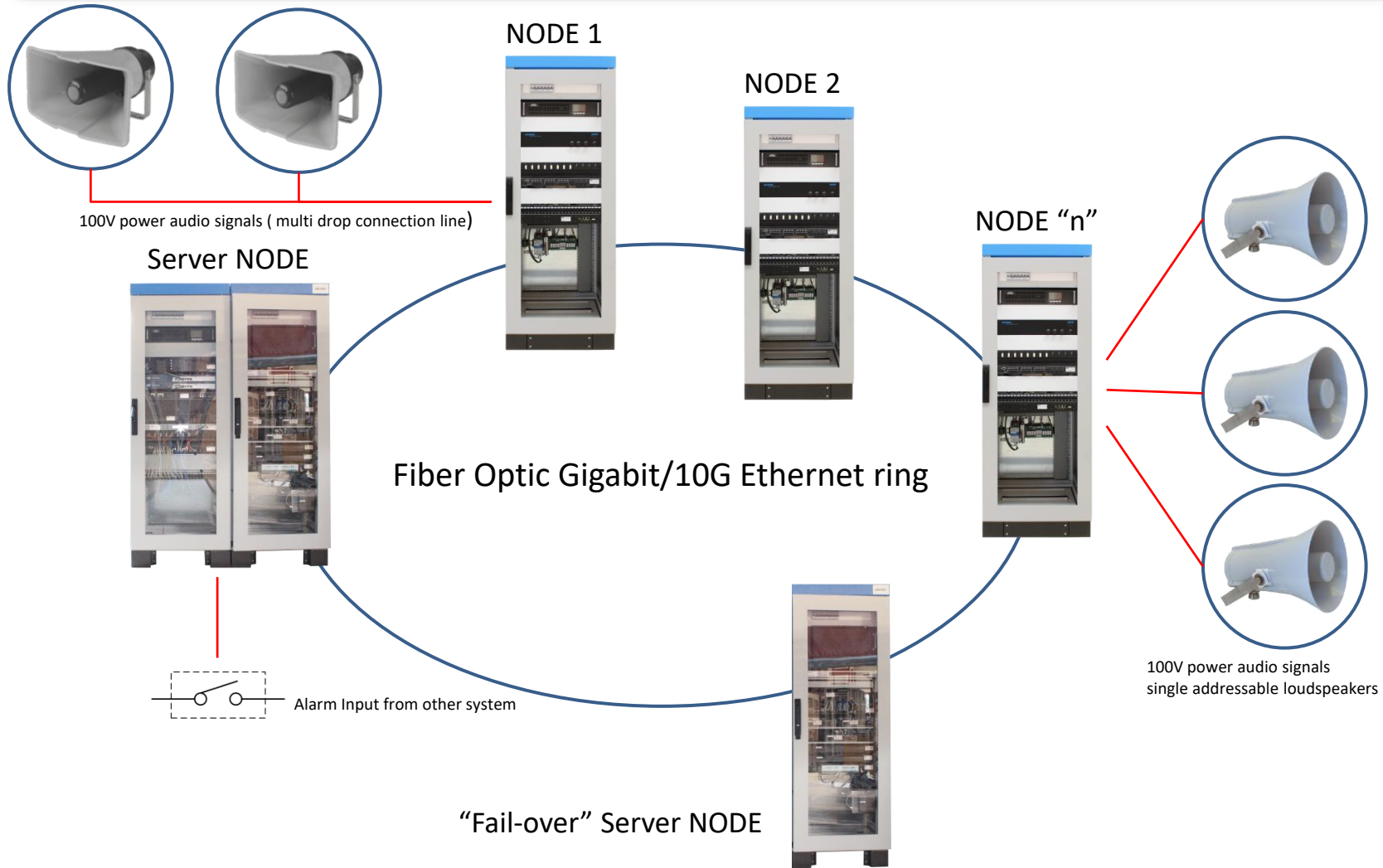
ARCHITECTURE: MULTI NODE DISTRIBUTED SYSTEM



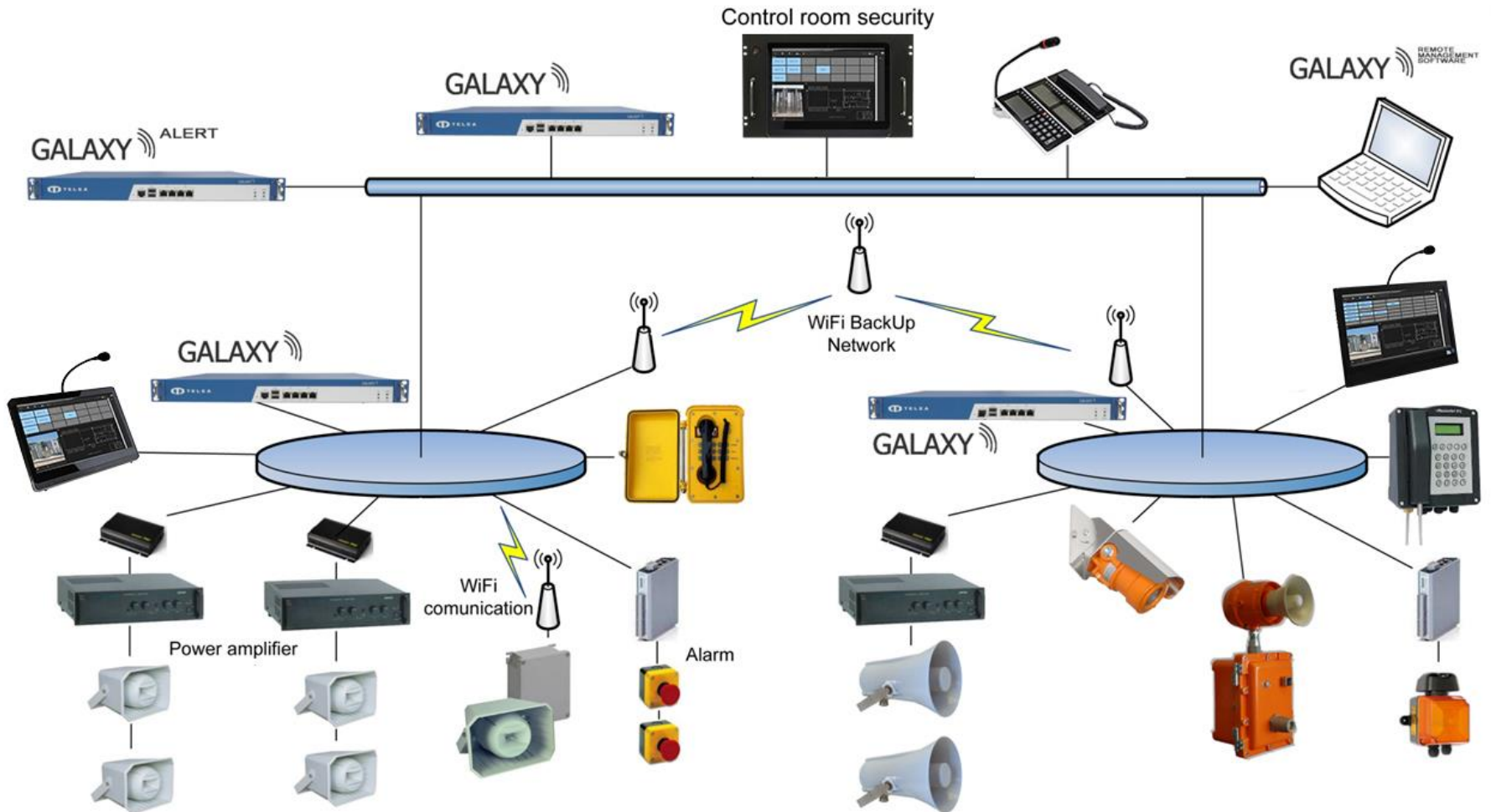
ARCHITECTURE: MULTI NODE DISTRIBUTED SYSTEM



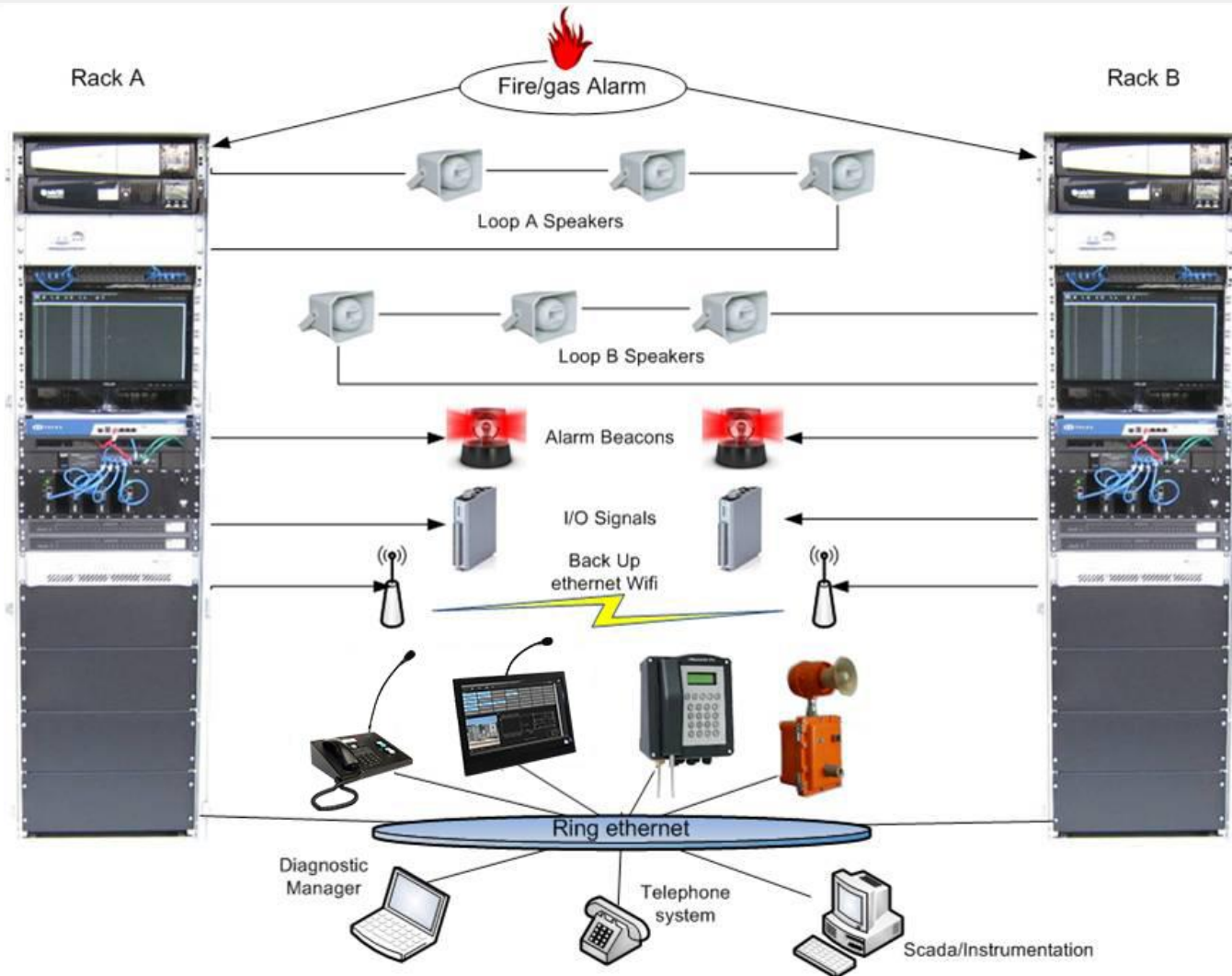
ARCHITECTURE: MULTI NODE DISTRIBUTED SYSTEM



ARCHITECTURE: MULTI LEVEL NETWORK



ARCHITECTURE: PAGA SYSTEM



Case History

Final client/company:

ENI S.p.A.



Year:

2018

Purpose of supply:

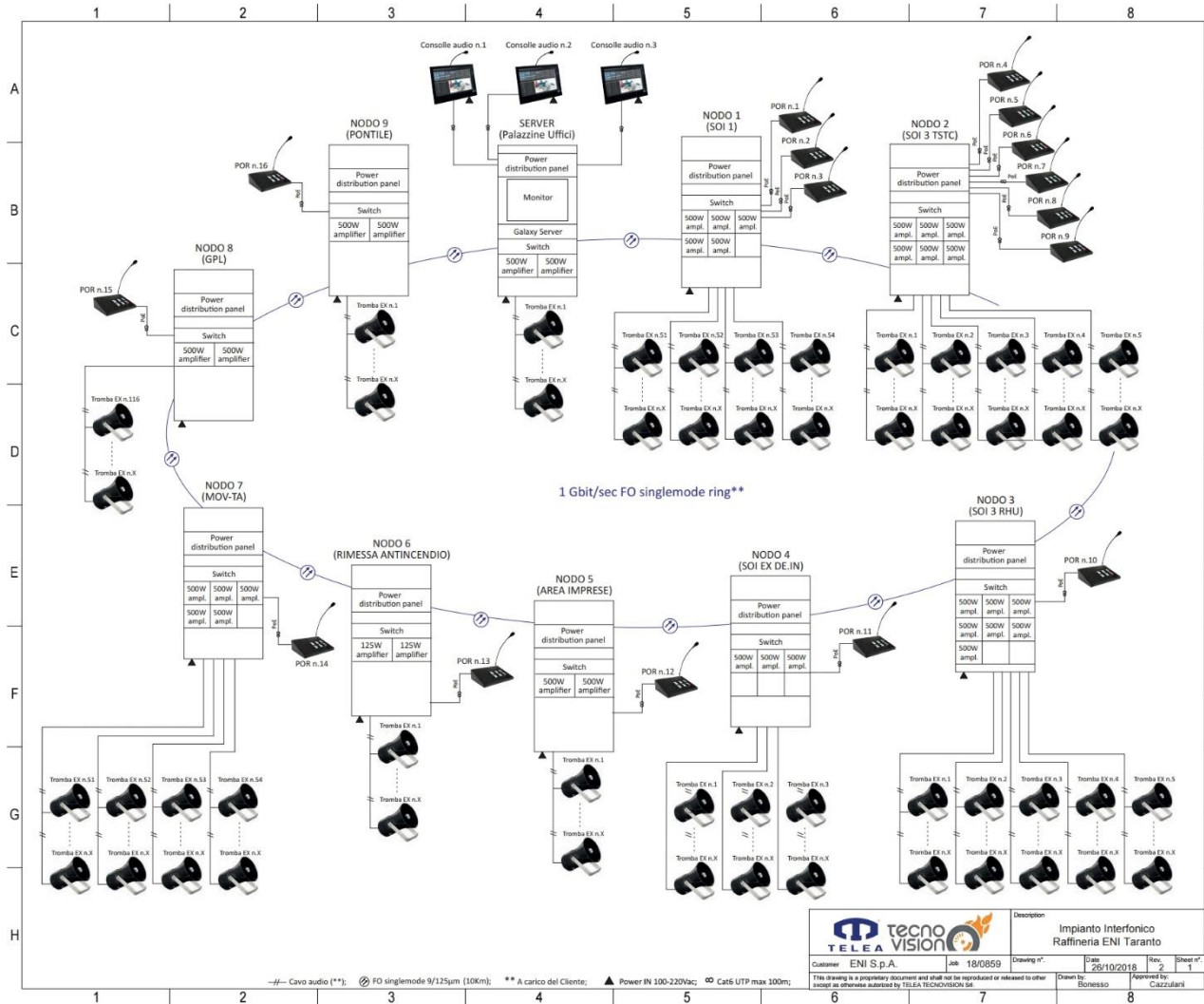
Audio Communication Intercom system for:

- Whole Refinery of Taranto + its sub-areas

Supply of:

Type of product	Audio console	Operator desk intercom	ATEX loudspeaker	Amplifiers	GALAXY Server	Monitor	Server & Node cabinets	Total devices
Quantity	3	16	137	36	2	1	10	205

Case History



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Storico progetti

Engineering company: BT Italia S.p.A. / Veralis

Site: Mantova (Italy)

Anno: 2017/2018

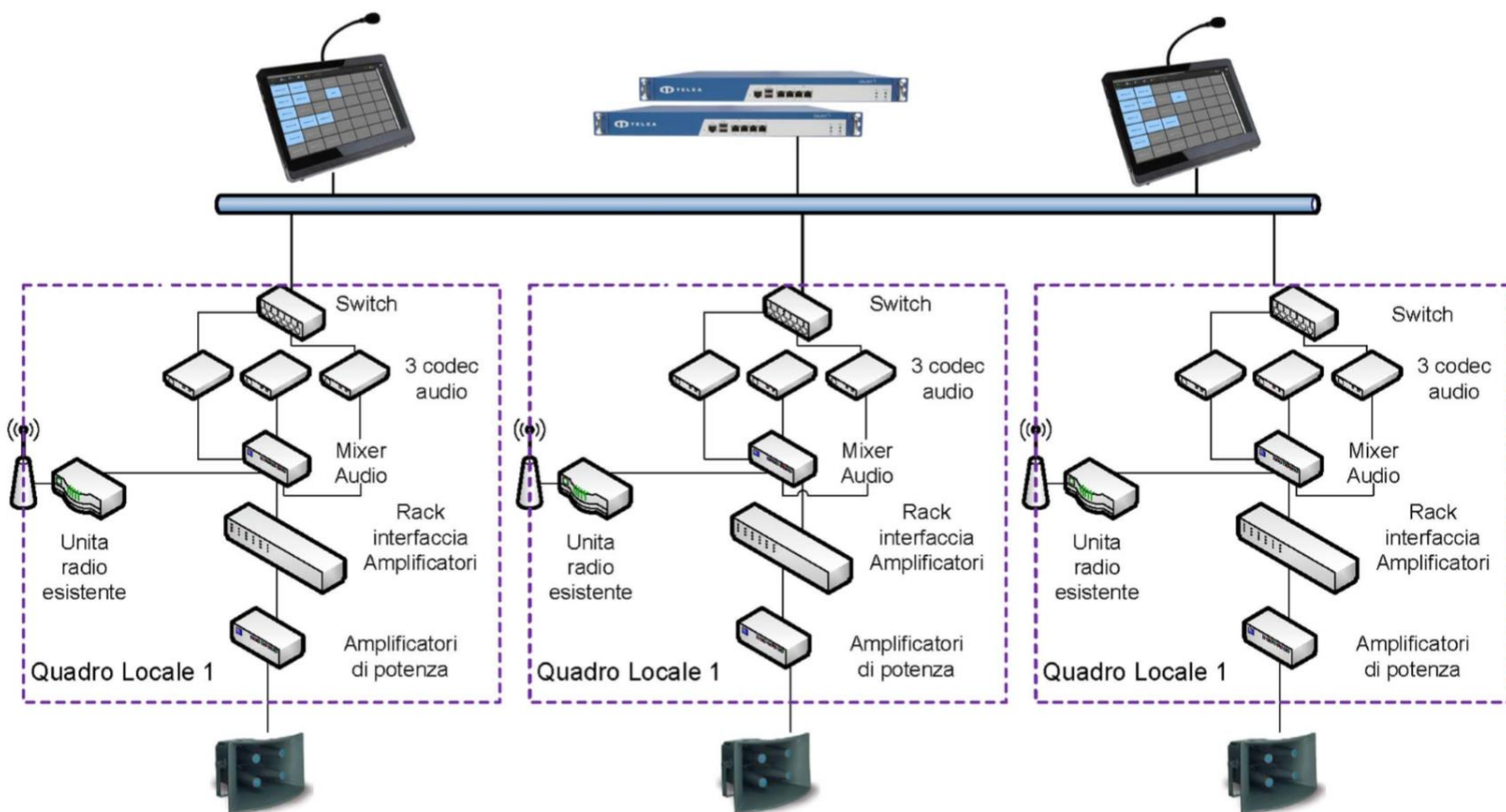
Purpose of supply: Extraordinary maintenance of Acoustic Poles:

- Equipment for gatehouses / control rooms
- Materials for acoustic pole
- Warehouse stock materials

Supply of:

Type of product	Galaxy Touch station 15''	Galaxy Touch station 20''	Codec audio	Amplifiers	GALAXY Server	Total devices
Quantity	4	4	9	6	2	25

Case History



SOME REFERENCES ON AUDIO COMMUNICATION SYSTEMS

Intercom system in the PK BOLZANO rolling mill department	Acciaierie Valbruna S.p.A.	Italy	Iron&Steel	2022
Modernization of CCTV system and horns for sound diffusion	Italsacci S.p.A. - Divisione Cemento	Italy	Industry	2021
MANTOVA - Revamping accessories for Acoustic Poles management system	BT ITALIA S.p.A.	Italy	Oil&Gas	2021
Integrated CCTV and Intercom system for Track gate and load area	BT Italia S.p.A./ Versalis	Italy	Oil&Gas	2020
Audio Communication System for Hot Dip Galvanized Line	Danieli Automation S.p.A. / Tata Steel	UK	Iron & Steel	2020
Industrial Intercom system	MESUREX S.L.	Cuba	Power	2020
NOVA M.SE - Alert system and sound diffusion system	Bolton Manitoba S.p.A.	Italy	Industry	2019
TARANTO - Intercom system for ENI Taranto Refinery	ENI S.p.A.	Italy	Oil&Gas	2018
VERONA - Process CCTV and Audio Intercom for CCM 3	Acciaierie di Verona S.p.A.	Italy	Iron & Steel	2018
ASSEMINI (CA) - Upgrade audio communication system	BT ITALIA S.p.A./Syndial S.p.A.	Italy	Oil&Gas	2018
MANTOVA - Revamping of PA and General Alarm system	BT ITALIA S.p.A./Versalis	Italy	Oil&Gas	2018
Auxiliary Integrated System, for rolling mill (RM)	DANIELI & C. Officine Meccaniche S.p.A./Suez Steel SSC	Egypt	Iron&Steel	2018
BELLARA - Intercom System for DRI plant	PAUL WURTH ITALIA S.p.A./AQS	Algeria	Iron&Steel	2018
DUBAI - Upgrade telephone and emergency audio system	SAFCO Engineering S.p.A./Enoc processing company LLC	UAE	Oil&Gas	2018
MILANO - Audio communication system	TECH & TOUCH S.r.l./Centro ricerca Mario Negri	Italy	Various	2017
CCTV & Intercom system	TENOVA S.p.A. Melt shops/unknown	Italy	Iron&Steel	2017
Intercom & CCTV system	TENOVA S.p.A. Melt shops / Thyssen Krupp	Italy	Iron&Steel	2017
Integrated system CCTV - Intercom - Clock system	Danieli & Officine meccaniche / IIC Steel Egypt	Egypt	Iro&Steel	2017
TERNI - Intercom system	EL.TE. S.r.l./ Acciai Speciali Terni	Italy	Iro&Steel	2016
Gate intercom system	AFERPI - Acciaierie e Ferriere di Piombino S.p.A.	Italy	Iro&Steel	2016
Rolling Mill 2-3 Integrated Auxiliary Systems	Danieli & C. Officine Meccaniche S.p.A. / Algerian Qatar Steel	Algeria	Iro&Steel	2016
Rolling Mill 1 Integrated Auxiliary Systems	Danieli & C. Officine Meccaniche S.p.A. / Algerian Qatar Steel	Algeria	Iro&Steel	2016
Integrated Auxiliary Systems	Danieli & C. / NATIONAL PORT SAIID STEEL EGYPT	Egypt	Iro&Steel	2016
Melt Shop Integrated Auxiliary Systems	Danieli & C. Officine Meccaniche S.p.A. / MKE	Turkey	Iro&Steel	2016
Rolling Mill - Integrated Auxiliary Systems	Danieli Automation	AUSTRIA	Iro&Steel	2015
Guidonia - New gate access	Buzzi Unicem S.p.A.	Italy	Cement Plants	2014
Abu Hashima - Micromill	Danieli & C. Officine Meccaniche S.p.A. / Egyptian Steel	Egypt	Iron&Steel	2014