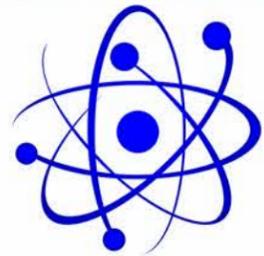




### 3 REASONS WHY YOU NEED A BDA FROM PROTON



**PROTON**  
ELECTRIC SERVICE, LLC.

#### PEACE OF MIND

PROTON WILL ENSURE YOUR SIGNALS ARE STRONG ENOUGH FOR FIRST RESPONDERS TO COMMUNICATE IN AN EMERGENCY.

#### EXPERTISE

PROTON SUCCESSFULLY DEPLOYS HUNDREDS OF IFC, NFPA, AND FCC COMPLIANT SYSTEMS EACH YEAR.

#### CUSTOMIZATION

PROTON CREATES CUSTOMIZED SOLUTIONS THAT FIT YOUR NEEDS AND BUDGET WHILE MEETING ALL PUBLIC SAFETY CODE REQUIREMENTS.

FOR A FREE CONSULTATION ON HOW WE CAN SOLVE YOUR BDA/DAS SOLUTIONS TO STAY SAFE

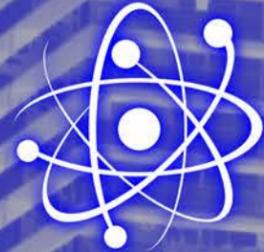
# 561-547-0027

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[WWW.PROTONELECTRIC.COM](http://WWW.PROTONELECTRIC.COM)

# IS YOUR FACILITY CODE-COMPLIANT?

BI-DIRECTIONAL AMPLIFIERS & DISTRIBUTED ANTENNA SYSTEMS  
IN-BUILDING SIGNAL BOOSTER COMMUNICATION SOLUTIONS



**PROTON**  
ELECTRIC SERVICE, LLC.



WHEN YOU WORK WITH PROTON, YOU ARE PARTNERING WITH A NATIONWIDE WIRELESS SOLUTIONS PROVIDER WHO KNOWS YOUR INDUSTRY AND HAS THE SOLUTIONS YOU NEED TO BE SUCCESSFUL.

PROTON INCLUDES MORE THAN 150 HIGHLY KNOWLEDGEABLE, HIGHLY SKILLED WIRELESS INDUSTRY PROFESSIONALS, MANY OF WHOM HOLD ADVANCED ENGINEERING DEGREES.

WE WORK WITH YOU EVERY STEP OF THE WAY TO CREATE A SOLUTION THAT FITS YOUR BUDGET AND MEETS ALL REQUIRED CODES.

## PROTON IN ACTION

THE PROTON TEAM HAS DEPLOYED HUNDREDS OF DAS AND BDA SOLUTIONS EVERY YEAR IN FACILITIES ACROSS THE PUBLIC, COMMERCIAL, AND INDUSTRIAL SECTORS.

HERE'S SOME EXAMPLES:

- **HOSPITAL CAMPUS:** AT ONE OF THE NATION'S LARGEST CARE AND RESEARCH FACILITIES, MULTIPLE BUILDINGS HAVE DESIGNATED "CLEAN AREAS" THAT DID NOT ALLOW INSTALLATION OF CABLING OR EQUIPMENT. PROTON MET THE CHALLENGE AND SUCCESSFULLY DEPLOYED A SYSTEM THAT BOOSTED SIGNAL STRENGTH ACROSS THE SEVEN BUILDINGS.

- **HIGH SCHOOL:** THE LOCAL FIRE MARSHAL DETERMINED THERE WAS INSUFFICIENT RADIO COVERAGE SO PROTON ACHIEVED COMPLIANCE BY INSTALLING TWO BDAs THAT DELIVER A STRONG RF SIGNAL TO EACH SIDE OF THE BUILDING.

- **MAJOR MANUFACTURER:** AFTER INSTALLING MOTOTRBO™ TWO-RADIO SYSTEMS ACROSS THEIR FACILITIES, AS OPERATING ENVIRONMENTS EVOLVE, PROTON CONTINUES TO DESIGN AND INSTALL BDAs TO IMPROVE THEIR SAFETY AND EFFICIENCY.

- **REFINERY:** THE BLAST-PROOF BUILDING HAD NO ACCESS BETWEEN FLOORS AND DIDN'T ALLOW TWO-WAY RADIO SIGNALS FROM THE INSIDE TO THE OUTSIDE. PROTON ANALYZED RADIATION PATTERNS AND USED CEILING ANTENNAS TO INSTALL A COMPLIANT BDA SYSTEM.

- **TWIN OFFICE BUILDINGS:** DECLARED OUT OF COMPLIANCE WITH CURRENT COVERAGE REQUIREMENTS, A 2-BUILDING, 18-STORY FINANCIAL SERVICES HEADQUARTERS RELIED ON PROTON TO INTEGRATE A BDA THAT MET REQUIREMENTS FOR BOTH BUILDINGS AND WORKED WITHIN THEIR EXISTING SYSTEM.

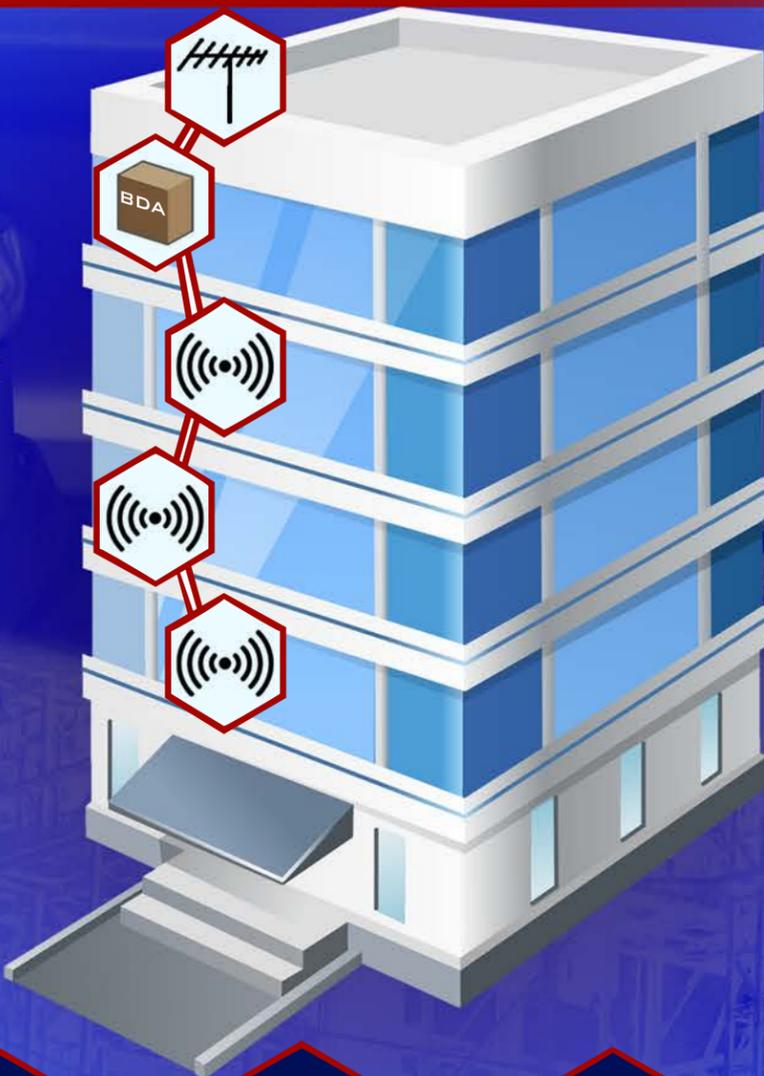
## CRACK THE CODE TO COMPLIANCE

### HOW PROTON CAN HELP

PLANNING AND DEPLOYING A COMPLIANT IN-BUILDING COMMUNICATIONS SYSTEM IS A CHALLENGE. THAT'S WHY HUNDREDS OF ORGANIZATIONS EVERY YEAR CHOOSE PROTON FOR SIGNAL BOOSTER SYSTEMS THAT ARE EFFECTIVE AND COMPLIANT.

OUR TEAM IS WELL-VERSED IN BOTH FEDERAL AND LOCAL PUBLIC SAFETY COMMUNICATIONS COVERAGE REGULATIONS, AND WE'VE SUCCESSFULLY DESIGNED AND DEPLOYED SYSTEMS WITHIN MANUFACTURING PLANTS, SCHOOL CAMPUSES, OFFICE COMPLEXES, DISTRIBUTION CENTERS, PUBLIC VENUES, AIRPORTS, AND MORE.

COUNT ON US TO HANDLE EVERY ASPECT OF INTEGRATION AND INSTALLATION, INCLUDING PROVIDING COMPLETE TWO-WAY RADIO COVERAGE FOR FIRST RESPONDERS, AS WELL AS ENHANCING YOUR OWN TEAM'S RADIO COMMUNICATION SYSTEMS.



**PUBLIC SAFETY SIGNAL BOOSTERS MUST MEET FCC GUIDELINES, AND OFTEN MUST COMPLY WITH INTERNATIONAL FIRE CODE OR NATIONAL FIRE PROTECTION ASSOCIATION STATUES.**

**IFC 510 REQUIRES 95% AND NFPA 72, CHAPTER 24 REQUIRES 95% IN-BUILDING WIRELESS SIGNAL COVERAGE.**

**IN ADDITION, NFPA REQUIRES 99% WIRELESS SIGNAL COVERAGE FOR CRITICAL AREAS LIKE FIRE PUMP ROOMS, EXIT STAIRS, AND PASSAGeways, AND ELEVATORS.**

**MINIMAL SIGNAL STRENGTH OF -95 DB FOR TWO-WAY RADIOS.**

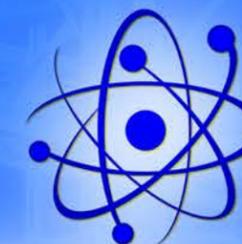
**BDAs MUST WORK IN HIGH HEAT AND HUMIDITY, AND WITHSTAND DIRECT WATER SPRAY FROM A FIRE HOSE.**

**EQUIPMENT SUPPORTING PUBLIC SAFETY RADIO SYSTEMS MUST BE ABLE TO OPERATE UP TO 24 HOURS ON A BACKUP BATTERY.**

**COVERAGE MUST BE TESTED IN A 40-GRID PROCESS USING THE LOCAL MUNICIPALITY CONTROL CHANNEL.**

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