



SELECT CLIENTS

- AAA Mid Atlantic
- Advance Magazine Publishers
- Almac Clinical Technologies
- Artesian Water Company
- Bank of America
- Berwind Company
- Cephalon
- Colorcon
- De Lage Landen
- Episcopal Academy
- Fox Chase Cancer Center
- GMAC
- Lafayette College
- Lehigh University
- Morgan Lewis
- Please Touch Museum
- PMA Insurance
- Project Management Institute
- School District of Philadelphia
- State Street Corporation
- Tastysake Baking Company
- Thomas Jefferson University Hospital
- Time Warner Cable
- University of Pennsylvania
- Virtua Health System
- West Chester University
- XL Capital



TECHNOLOGY DESIGN EXPERIENCE

Bala’s unique approach to Structured Cabling System design utilizes our technical expertise and our practical field experience to design coordinated and integrated technology systems for Data Centers, headquarters and office facilities, education campuses and healthcare facilities.

Our designs create smart buildings that operate more efficiently and effectively. Our systems Engineers hold RCDD, NTS, OSP, CCNA, and LEED certifications, and began their technology careers as installation technicians. From the Outside Plant (OSP) to Intra-Building Pathways, through Overhead or Access Floor conveyance systems, Bala designs robust, efficient, redundant and scalable Information Transport Systems.

PROJECT TYPES

Voice/Data Cable Plant Design	Cable Management Systems
Rack/Cabinet Layout and Elevations	Plug and Play Cooper and Optical Fiber
Security and Card Access Design	LAN/WAN/SAN and Wireless Design
Cost Control Documentation	Cable Plant Commissioning
Vendor Management and Technology PM	Data Center Infrastructure Management Design (DCIM)
Distributed Antenna System (DAS) Design	Intelligent Infrastructure Management Design

FOR MORE INFORMATION,
PLEASE CONTACT:

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SECURITY DESIGN EXPERIENCE

As Integrated Technology Systems designers we understand the need for effective security systems across all levels. Whether it is a Data Center, Corporate Office, Higher Education Facility or Hospital, we can tailor a security system design to meet your needs. Our extensive knowledge of many security system manufacturers and our proficiency in integrated systems design produces a reliable and efficient security solution.

Our Systems Engineers have designed interior and exterior security systems for financial institutions, communications firms, insurance companies, universities, and hospitals.

PROJECT TYPES

Access Control Systems	Intrusion Detection/Burglar Alarm Systems
Perimeter Intrusion Detection/Electronic	IP CCTV/CCTV/Video Surveillance
Fence Protection	
Security Command Centers	Parking Area Gate Controllers
Biometrics	Alarm System Zoning and Software Programming
Security System Commissioning	

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Arkema
Bristol Myers Squibb
Cephalon
Children's Hospital of Philadelphia
Colorcon
Day & Zimmermann
De Lage Landen
Episcopal Academy
Financial Firm
Fox Chase Cancer Center
Global Financial Trading Firm
Janney Montgomery Scott
Lafayette College
Lehigh University
Morgan Lewis
New Jersey Manufacturers Insurance
PHLX
Saint Joseph's University
Tastycake Baking Company
Thomas Jefferson University Hospital
Time Warner Cable
University of Pennsylvania Health
System
VWR International



DISTRIBUTED ANTENNA SYSTEM EXPERIENCE

Distributed Antenna System (DAS) technology utilizes the FCC licensed spectrum of wireless carriers to rebroadcast cellular signals directly to client owned space. In addition to wireless carrier signals, a DAS is also capable of extending First Responder frequencies and facilities radio systems throughout buildings, ensuring communications in all areas of the building during emergency events. Bala is one of the only engineering firms designing these systems independent from carriers and manufacturers.

Bala's DAS design services encompass the entire process of RF engineering and cable plant design required for successful implementation and commissioning of these systems. Space planning for carrier head end equipment, environmental conditioning, and specific cable routing and antenna placement are coordinated with each individual frequency requirement of the selected carrier or radio system to be deployed. These services also include carrier agreement consulting and coordination with local municipalities to determine the appropriate frequencies to be rebroadcast into the facilities. The commissioning process involves real time analysis of signal ratios across all deployed platforms and determination of available capacity for future deployment of carrier signals, including 3G and 4G wireless communications.

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SELECT CLIENTS

- Amerigas
- Citadel Federal Credit Union
- Electronic Retailer
- Fox Chase Cancer Center
- Keefe, Bruyette, and Woods
- Mission Solutions Engineering
- New Jersey Education Association
- Nuclear Regulatory Commission
- Philadelphia Stock Exchange
- Project Management Institute
- TeleAmerica Media, Inc.
- The American College
- The Children’s Hospital of Philadelphia
- Virtua Health
- VWR International, LLC
- Watchdog
- University of Pennsylvania



DATA CENTER MIGRATION EXPERIENCE

Bala’s Data Center migration team delivers quality technology plans, practices , and resources to ensure your business operates at an optimal level throughout your Data Center relocation or consolidation

In the complex Information Technology world, there is little to no acceptance for downtime. A Data Center move is one of the most daunting projects a company can embark on and Bala will be there every step of the way. Bala manages all aspects of the relocation process utilizing methodologies and toolsets that span the physical inventory, application mapping, and planning.

Our time tested Work Breakdown Structure (WBS) focuses on assessment, planning, execution, project management, and physical asset movement. The WBS is a dynamic tool sufficient for Data Centers of all sizes, and utilizing it produces a swift and safe relocation that allows the client to remain focused on their core competencies.

TECHNOLOGY & FACILITIES

- Data Center Relocation
- Assessment & Monitoring
- Cabling & Rack Layouts
- Hot/Cold Tactical Layouts

PEOPLE & PRACTICES

- Best Practices
- Metrics, Costs, Automation
- Continuity & Disaster Recovery
- Technology Migration
- Customer Oriented Strategy

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