NEWSLTR

Faith Group

20 YEARS

INTEGRITY
DIGNITY
QUALITY
ENDURING
PIONEERING

FEATURES:

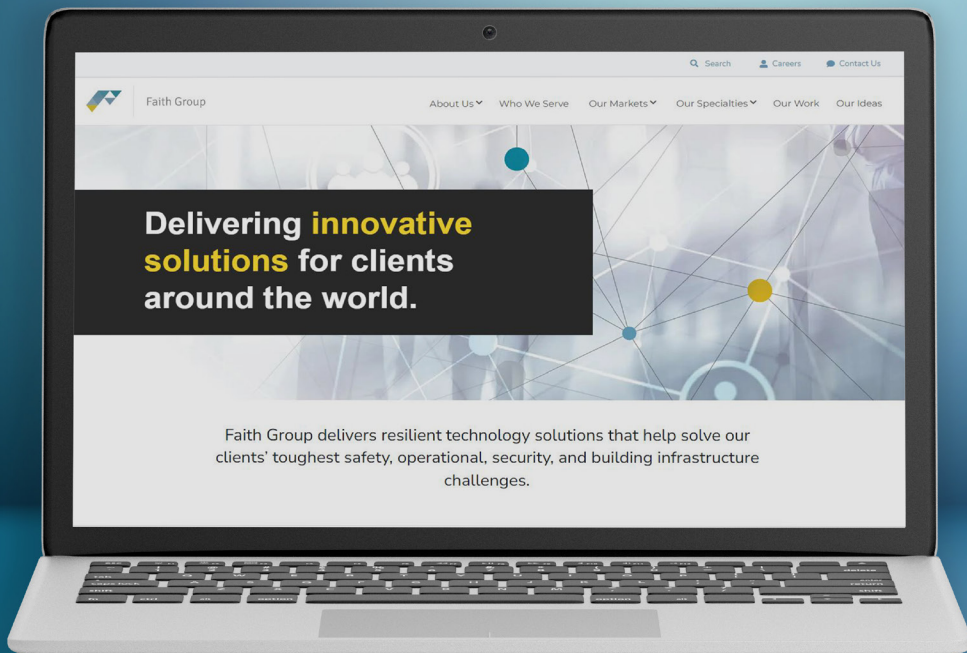### TAKE IT ON FAITH: 20TH ANNIVERSARY: HOW IT ALL BEGAN

Read about how and why Faith Group was created and Faith's thoughts on overcoming challenges and reaching our 20th Anniversary milestone.

TECH UPDATE: TRANSFORMATIVE AI AND THE ROLE OF DATA

For our Faith Group clients with complex technology across large campuses, AI is proving to be a game-changer, enhancing efficiency, security, and overall operational effectiveness.

JFK LAB GRAND OPENING

Faith Group attended the grand opening of our teams JFK New Terminal One (NTO) Pre-Production Center in December. This new facility is where new technology will be tested before it is deployed in the NTO, which is planned to open in 2026.

LIVE NOW!

Visit Our New Website

www.faithgroupllc.com

Faith Group

Delivering innovative solutions for clients around the world.

Faith Group delivers resilient technology solutions that help solve our clients' toughest safety, operational, security, and building infrastructure challenges.

ST. LOUIS | ATLANTA | DALLAS | FT. MYERS | MINNEAPOLIS | NASHVILLE | PHILADELPHIA | SAN FRANCISCO | WASHINGTON D.C.

Faith in 2004

TAKE IT ON FAITH

20TH ANNIVERSARY EDITION: HOW IT ALL BEGAN

When I started Faith Group in 2004, I could never have envisioned how the next 20 years would unfold. Starting with "two blondes in a basement," my original goal was to create a small (under 12 people), niche company, focused on providing holistic end-to-end client services, that was flexible to meet their ever-changing needs. Little did I know just how flexible and changing their needs would be! The firm has operated successfully through two recessions, the COVID 19 lockdown, and multiple election cycles, all of which continue to impact spending and growth in the aviation, transportation, government, and commercial market sectors. Even through this change, I remain invigorated by the work we do for our clients and our interactions with other industry partners. Faith Group's success is largely due to the many relationships we have fostered over the past two decades. Our long-term clients and business partners continue to be the backbone support of our growth. I am fortunate to employ and work with some of the most talented and creative people in the industry, whose thought leadership continues to grow our services and capabilities. I have no idea what challenges the next 20 years will bring, but I am confident that Faith Group's culture, attitude, adaptability, and expertise will continue to provide the same level of service our clients and partners have come to expect. Thanks to everyone who has been along for the ride so far!

IN THIS ISSUE:

IN THE NEWS: RECENT WINS

AVIATION

- SMS Development for the Port Authority of NY & NJ
- Cybersecurity Incident Response Plan for Northwest Arkansas International Airport
- Terminal Operational Enhancement Design Services for Syracuse Hancock International Airport as a subconsultant to C&S Companies
- Cybersecurity Identity and Access Management Program for Metropolitan Knoxville Airport Authority
- SMS Program for San Bernardino International Airport as a subconsultant to TetraTech
- Cybersecurity Incident Response Plan for Nashville Airport
- Digital Content Management System for Los Angeles International Airport as a subconsultant to Gensler
- SMS Implementation Plan for Palm Beach International Airport as a subconsultant to Ricondo
- Briefcam Support, CCTV Governance, and Camera Standards Development for Dallas Ft. Worth International Airport
- Terminal Development Program Master Architect for San Antonio International Airport as a subconsultant to Corgan

FEDERAL

- A/E IDIQ Engineering Services for NAVFAC SE as a subconsultant to Merrick & Company / RS&H JV - Task Orders:
    - P982 Consolidated Comm Facility at Marine Corps Logistics Base Albany
    - P215 JITF-S Command & Control Facility Naval Air Station Key West Truman Annex
- Air Force Reserve Command A/E IDIQ MATOC Pool Unrestricted Building 71 Renovation at Wright Patterson AFB for USACE Louisville as a subconsultant to Benham/Mead & Hunt JV
- A/E Services at Jacksonville ANGB FL F-35 Repair Maintenance Hangar Building 1001 for Air National Guard as a subconsultant to Pond CDM Smith JV

EDUCATION

- Security Consultant Services for Integrated Security/Card Access System for Auraria Higher Education Center
- New Elementary School Commissioning for Venice School District

GOVERNMENT

- NDOT East Center Security Fence for Metropolitan Government of Nashville & Davidson Counties
- Justice Center Phase 2 Security Fence Design Services for City of Indianapolis as a subconsultant to Shiel Sexton Company

TRANSIT

- A/E Services for East Campus Master Plan and Fleet Terminal Facility for IndyGo as a subconsultant to CDM Smith

20TH ANNIVERSARY: NEW MILESTONE, NEW WEBSITE

Faith Group has launched its new and improved website tailored to enhance your experience with new and improved features! Highlights:

"Our Markets" - Over the past 20 years, Faith Group has grown from an aviation security firm to a thriving multi-discipline consulting and engineering firm serving an array of critical infrastructure and large campus clients. This new section allows you to gain an understanding of how we are serving our expanded presence in Transit & Rail, Federal & Government, Education, and Commercial.

"Who We Serve" - A detailed guide to Faith Group's vast partnership opportunities. With our end-to-end services model, we can team up at any phase of a project with a variety of partners, from Owners and Developers to Architects and Integrators. The services we are able to provide each of our partners are quite unique, so we have
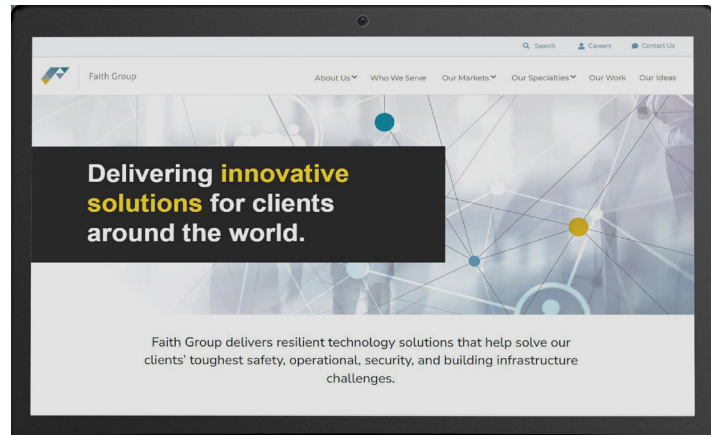
broken down for you what each partnership looks like!

"Search" - We have added a Search feature to the top banner, as well as enhanced search functionality to auto-populate suggestions for you from real-time information across our entire website. Want to search for Security? Search will find anything tagged with "security," from open positions and blog posts to services and projects.

FOCUS: COMMERCIAL

JAVITS CONVENTION CENTER PERFORMANCE "STRESS TEST" ANALYSIS AT NY COMIC CON

Javits Convention Center reached out to Faith Group to help diagnose and remediate performance issues that were occurring with their Genetec Video Management System (VMS). Upon initial investigation, it was determined that, following a major capital development program, and subsequent upgrades to the underlying network infrastructure, there were multiple layers of issues present in the video surveillance environment which impacted system performance and reliability.

We conducted multiple trips on-site for testing and analysis and provided hands-on evaluation at all levels of the system. Our approach encompassed a thorough review of the entire system, utilizing in-house experts to look at the underlying network infrastructure, system storage, databases, and physical hardware.

Following completion of the analysis, we worked with internal Javits staff and Genetec to remediate the system and rectify issues that were found in the field. As a

Genetec Certified Consultant, our direct relationship with the manufacturer played a key role in the remediation process. The most significant factor in the overall performance of the system was found that the servers and recording hardware did not align with the factory requirements for the platform. In a two-phased approach, we migrated the entire VMS to a Genetec factory provided hardware solution that utilizes traditional and trusted recording methods.

The result is a fully functioning system and a newly established, ongoing contract with Faith Group to help Javits manage the entire security program and keep the systems operating at peak performance.

In October, Javits hosted one of its largest events of the year, New York Comic Con, drawing more than 200,000 enthusiasts into the facility. This created an enormous amount of activity on the camera streams throughout the convention center, which had the potential to adversely affect system performance, ultimately leading to inoperability. We used

"Faith Group has been an integral part of the Jacob Javits Center, contributing to its status as the safest convention center in the country. The seamless integration of our nearly 2,500 cameras, across the over 3-million-sf. that make up the Javits Center, was made possible through collaborative efforts with Faith Group. Their dedication to day-to-day operations, system integrations, and forward-thinking for the future has proven to be a true asset to the Javits Center."

Ken Dixon
Sr. Vice President of Security & Safety Solutions
Javits Center

Comic Con as an opportunity to perform "stress test" analysis in which numerous performance metrics, such as total data throughput rates, disk read/write rates, and central processing unit (CPU) performance were captured and recorded.

By comparing those metrics to system idol times and monitoring them during such an extensive high stress period, we were able to determine and document the actual data throughput generated during maximum camera motion saturation and compare that data to system performance data. This allowed us to realize the true threshold of the system, as well as verify

that the Genetec hardware was fully capable of supporting the initial requirements. The resulting data showed that with remediation complete not only had system performance greatly improved but the system was also now capable of processing what we would consider the absolute maximum amount of performance stress possible, with no issues.

Cary Gulsby
Professional Services Manager
cary.gulsby@faithgroupllc.com

FOCUS: AVIATION
ACRP REPORT 256 – VIRTUAL AIRPORT RAMP CONTROL OPERATIONS FACILITIES: A GUIDE

ACRP
Research Report 256

Airport Cooperative Research Program
Sponsored by the Federal Aviation Administration

Virtual Airport Ramp Control Operations Facilities
A GUIDE

NATIONAL ACADEMIES Sciences Engineering Medicine
TRANSPORTATION RESEARCH BOARD

Faith Group was the Lead Subconsultant for Ricondo's team to develop a report that provides U.S. airport operators and stakeholders with a roadmap and guide for implementing virtual ramp control (VRC) systems. The Airport Cooperative Research Program (ACRP) produced this guide to provide the airport industry with information regarding developing Virtual Ramp Towers (VRT) for airports of all sizes. VRT's allow airports to manage aircraft ramp operations through the use of complex camera systems and integration with critical aircraft data sources. The VRT essentially replaces a traditional "eyes out the window" operation with displays in a control room that can be located away from the ramps and gate areas. The control room replaces the traditional ramp tower and can, in fact, provide more detailed images and information than the naked eye can. Part of Faith Group's research for the guide was predicated on our direct operational experience with VRT and VRC systems in the U.S. and Europe. Our approach was based on our relationships with multiple airport operators, VRC manufacturers, ramp area service providers, and aviation regulators. The research involved real-world VRT tours and examination of operations at a state-of-the-art facility operated by a large U.S. commercial carrier (at one of their major hubs) and an FAA-funded virtual control tower at Front Range Regional Airport in Colorado.

Click **HERE** if you would like to download a complimentary copy of the guidebook.

Dave Fleet
Principal, Director of Operations
davef@faithgroupllc.com

LINDA GEDEMER JOINS TEAM AS AUDIOVISUAL (AV) ENGINEERING MANAGER

Faith Group is pleased to announce that Linda Gedemer has joined the firm as our AV Engineering Manager. She has experience in designing and building audio, video, and control systems for a wide variety of commercial, educational, and entertainment applications worldwide. She has a PhD in Audio and Acoustical Engineering and has acoustic consultant experience working in architectural acoustics, providing expertise in room and audio measurement and calibration.

"Since starting with Faith Group, I've had this overwhelming feeling of 'I wish I found this company sooner.' My welcome to Faith Group has been more like joining a family of incredibly talented and dedicated people as opposed to simply being hired by a company. As the new AV Engineering Manager, I'm looking forward to expanding our talented team to continue to not only meet the needs of our clients, but also the markets that we hope to expand into. I'm especially excited to get working on our initiative of starting an Acoustics Consulting practice within our A/V team," says Linda.

"Linda Gedemer brings a wealth of experience and knowledge to our team. She's heavily involved in the AV industry and has worked across multiple verticals. On top of that, within just the first few weeks of her joining, I can already tell she's a great culture fit. I am looking forward to advancing our AV and acoustics capabilities with Linda and our strong team of AV experts" said Zach Varwig, Principal of Faith Group.

Linda will play a pivotal role in elevating the company's AV consulting and engineering standards, ensuring continuous advancement and adherence to industry best practices. Additionally, Linda will be developing internal staff and expanding AV resources, solidifying the firm's position as an industry leader in systems and technology consulting and engineering, while actively pursuing opportunities to broaden the scope of existing business interests.

JOE FALLON OBTAINS ICAO AVSEC PM CERT!

After a rigorous three-month-long program with folks from around the globe, Joe is now **1 of 1,143** International Civil Aviation (ICAO) Certified AVSEC PMs! This course is the most advanced aviation security training program which carries a formal designation, making it the first of its kind globally! With this certification, Joe now has specialized training focused on the evolving and critical area of aviation security and exclusive access to the AVSEC Professional Network - a collective of connected graduates and the source for practical and current industry learning material!

Click **HERE** to read more about this certification.

LOREN BOYD NAMED TO AIRPORT BUSINESS TOP 40 UNDER 40!

Airport Business Magazine has named Marketing Manager, Loren Boyd as one of the Top 40 Under 40!

Click **HERE** to view the full issue.

40 UNDER FORTY
airport business

JFK PRE-PRODUCTION CENTER GRAND OPENING

As a member of the JFK New Terminal One (NTO) project's Design-Build Team and MSI Consortium, Faith Group is serving as the engineer of record for low voltage systems and providing MSI commissioning services. Members of our JFK team attended the grand opening of the Pre-Production Center in December. This new facility is where new technology will be tested before it is deployed in the NTO, which is planned to open in 2026. Systems that are being tested include biometric passenger touchpoints, baggage systems, airport management systems, and much more.

Faith Varwig, Faith Group's Managing Principal, commented, "NTO's operating goals and objectives will require delivery of a state-of-the-art, industry-leading terminal environment. This approach requires a much higher level of data integration and the use of artificial intelligence (AI) to support dozens of business processes, all focused on delivering a seamless experience for operators and travelers alike. Creation of the pre-production environments offers several advantages in the software development process, including risk mitigation, optimized performance, alternative analysis, and both time and cost savings. This process helps ensure that the investment made is fully functional to meet the goals and objectives and avoid surprises. JFK's investment in a pre-production center shows their commitment to designing a world-class terminal that exudes technological excellence on day one."

Read the Press Release **HERE**.

HOLIDAY GIVING

The holiday season is here, and at Faith Group, the spirit of giving is brighter than ever! Since 2017, our employees have made it a tradition to bring joy to those in need, and this year was no different. This year, with staff contribution and Faith Group matching, we were able to share more than $12,000 to charity.

Although we wish to be able to contribute to all of those in need, we were able to help seven agencies this year. These agencies included:

- **Lutheran Family and Children Services of Missouri**
- **Good Samaritan Ministries**
- **Operations Food Search**
- **Women's Safe House**
- **Community Interfaith Food Pantry**
- **Jefferson County Rescue Mission**
- **Veterans Community Project (VCP)**

TECH UPDATE: TRANSFORMATIVE AI AND THE ROLE OF DATA

As we look at the current state of artificial intelligence (AI), it's evident that the transformative power of this technology is reshaping industries across the board. For our Faith Group clients with complex technology across large campuses, AI is proving to be a game-changer, enhancing efficiency, security, and overall operational effectiveness.

The Current State of Artificial Intelligence (AI)

AI has evolved beyond the academic laboratories, becoming an integral part of various business strategies and products. Machine learning algorithms and advanced analytics are now empowering organizations to derive meaningful insights from massive datasets, enabling informed decision-making and predictive capabilities. This shift is particularly pronounced in industries where real-time information is paramount, such as airports, transit operators, industrial & manufacturing, and other large campuses.

AI Use-Cases for Complex Integrated Campuses

The integration of artificial intelligence (AI) into overall technology and data architecture has brought about a transformative shift on our clients' campuses, providing innovative solutions that enhance security, streamline operations, and elevate the overall user experience.

One example use case includes bolstering physical and cyber security measures. Through AI-powered threat detection and

prevention, systems analyze vast datasets in real-time, identifying anomalies and potential security threats before they escalate. The ability to recognize patterns from previous attack postures enables a proactive approach to security, fortifying defenses against evolving threats.

Biometric authentication, another application of AI, ensures secure access control within clients' facilities and across their campuses. From fingerprint

and facial recognition to iris scans, AI-driven biometric systems offer an accurate and efficient means of verifying individuals, significantly reducing the risk of unauthorized access. The utilization of AI extends to image recognition for identifying contraband and narcotics. By employing advanced algorithms, AI contributes to security efforts by enhancing the identification of prohibited items, thereby maintaining a safe and secure environment.
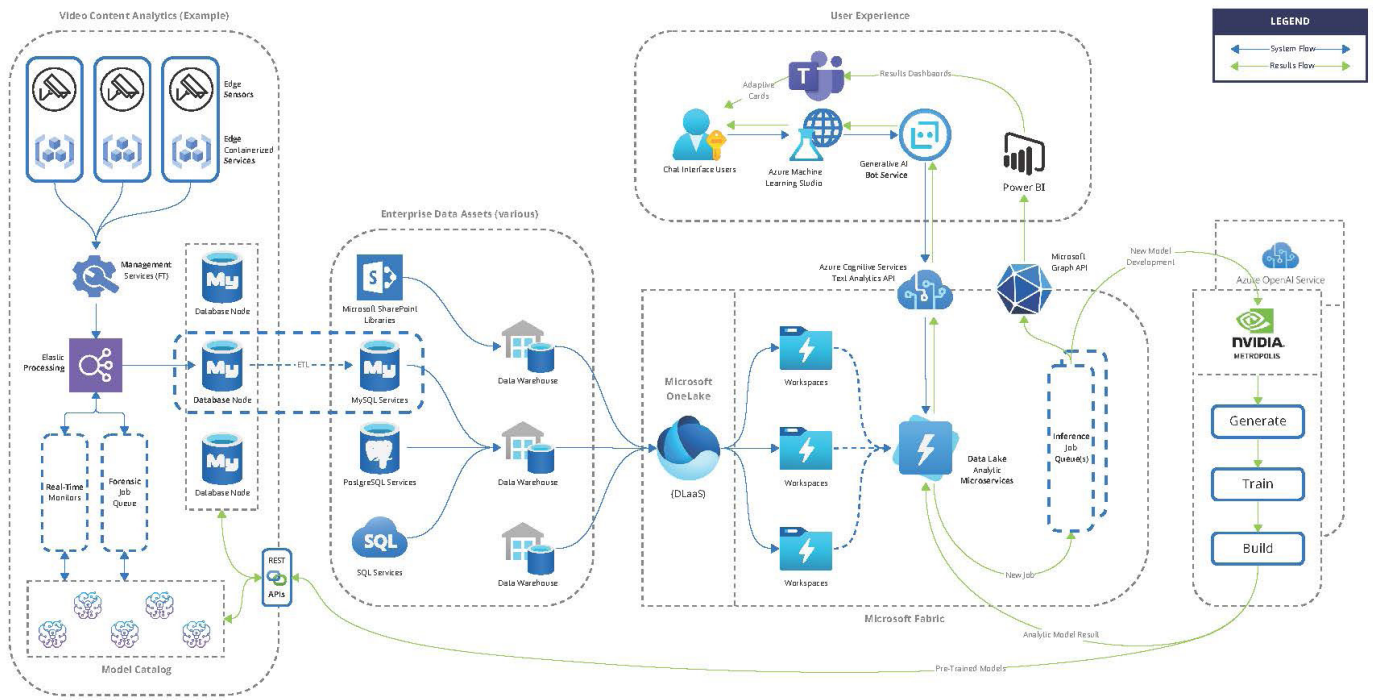
FIGURE 1: Enterprise-Integrated Video Content Analytic Solution

Surveillance and monitoring systems powered by AI provide an additional layer of security. By continuously analyzing video feeds, often described as Video Content Analytics. These systems can identify unusual activities, detect unauthorized access, and deliver real-time alerts to security personnel, ensuring a swift response to potential security threats. Similarly, AI-driven license plate recognition systems provide enhanced security and access control. Whether managing parking facilities or monitoring vehicle movement, these systems automate the identification process, contributing to a more secure and well-regulated environment.

Beyond security, AI plays a pivotal role in optimizing operational efficiency and overall client experience. Predictive maintenance, facilitated by AI algorithms, allows for the anticipation of and preparation for equipment failures. By analyzing data from sensors and equipment, AI can forecast potential issues, enabling timely maintenance interventions that prevent disruptions, reduce operational downtime, and forecast end of useful life. Client experience is also enhanced through AI applications. Predictive analytics anticipate passenger flows, enabling efficient resource allocation and minimizing congestion. This contributes to smoother transitions through various touchpoints throughout buildings, ultimately improving the overall user experience.

The Importance of Clean Data

The success of AI initiatives and broader digital transformation efforts is intricately tied to the quality and management of your business data. It's crucial to underscore the significance of clean and accurate business data. According to a recent study by DataBricks, a staggering 95% of businesses cite the need to manage unstructured data as a problem for their business. This emphasizes the pervasive challenge of handling data in its raw and unorganized form. Furthermore, Forrester reports that an alarming 73% of company data goes unused for analytics and decision-making, indicating a significant gap in harnessing the full potential of available information.

In our data-driven landscape, the efficient utilization of resources is paramount. Gartner highlights that 22% of data management resources' time is spent on data innovation and monetization. This statistic sheds light on the immense potential for organizations to extract additional value from their data by adopting innovative approaches. As we navigate the era of digital transformation, it's imperative to leverage data not just for operational efficiency but also for strategic decision-making that propels your business forward.

Looking ahead, Gartner predicts that by 2025, 75% of data will be created at the edge, in decentralized locations. This shift underscores the need for robust data governance frameworks, which paves the way for structured and dynamic approach to distributing data across the organization. Clean and well-managed business data will be a linchpin in ensuring AI-enabled solutions can effectively harness the decentralized nature of data creation at the edge.

How We Can Help

As your consulting partner, we can assist you in developing and implementing strategies that not only manage data effectively but also capitalize on the untapped potential within your data repositories.

This includes services and solutions from early planning, request for proposal development, detailed integration architecture, and program building. Our broad range of technology expertise across industries enables a use-case-centric, phased approach to solutions which directly addresses problems within your specific environment.

As an example, we provide conceptual solution architectures (Figure 1) to serve as a framework as your organization grows, to effectively and responsibly adopt AI capabilities across your day-to-day operations and overall organization strategy.

When you are ready to start tackling your data challenges and begin preparing for AI, we are ready to leverage our industry-specific expertise to collaborate with you to create a plan that uses data as a strategic asset that propels your organization forward.

Mike Yanko
Secure Architecture Lead
michael.yanko@faithgroupllc.com