NEWSLTR

Faith Group

INTEGRITY
DIGNITY
QUALITY
ENDURING
PIONEERING

FEATURES:

TAKE IT ON FAITH: CREATING MEANINGFUL PARTNERSHIPS

With the industry's project landscape constantly changing, Faith Varwig discusses the importance of being flexible and creating meaningful partnerships to best expand the company's reach.

TECH UPDATE: PRIVATE NETWORKS

Private LTE and 5G networks are not just buzzwords anymore. Learn more about why they are becoming more attractive and useful, along with the main benefits private networks can offer.

SAEFIX, A FAITH GROUP COMPANY, COLLABORATES WITH HPE ON AI CENTER OF EXCELLENCE

Read our full press release to learn more about our in-house Test Lab and plans to accelerate AI driven technology.

Asheville Regional Airport
Terminal Modernization

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

TAKE IT ON FAITH
CREATING MEANINGFUL PARTNERSHIPS

Project delivery has changed a lot since I started working in the A/E/C industry in 1983. Everything was simpler then and partnering was much more straight forward. The design team was almost always led by an Architect with Civil, Structure and MEP sub-consultants carrying the same scope on nearly every project. Everyone "stayed in their lane". While these same partnerships exist today the projects have grown much more complex, requiring the skill sets of a wider variety of specialized firms. IT Consultants barely even existed in our industry when I started! Companies must expand their capabilities and reach in order to meet the growing needs of their clients. Since I started Faith Group in 2004, we have continually evolved and expanded our service categories, and over the last few years built Cyber Security, Solution Architecture/AI, Testing and Commissioning, and Field Professional Service practices. These are capabilities that I would never have imagined needing when starting Faith Group (much less in the 1980s), but are some of our highest growing areas. Our relationships have grown to including general contractors, systems integrators, product providers and some of the world's largest technology suppliers. You cannot do everything on your own; I've always believed in staying nimble and open minded to partnerships. This flexibility and willingness to do what is best for our clients is why Faith Group continues to both expand our reach and maintain our reputation for excellent project delivery.

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
- vCISO and 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

FOCUS: AVIATION

ASHEVILLE REGIONAL AIRPORT (AVL), TERMINAL MODERNIZATION

Faith Group is serving as the IT Master Systems Integrator (MSI) on the Hensel Phelps (HP) team for a new, design-build terminal at AVL. As part of this program, Faith Group is working with AVL Information Technology and the Designers of Record to ensure overall integrated technology solutions meet client needs through construction phasing and beyond. In August of this year, AVL broke ground on the new $400M passenger terminal intended to replace the existing 62-year-old terminal. The new facility will be 150% larger and include 12 gates across two concourses and a new Data Center. The team will take a phased approach to construction, including temporary phasing facilities to keep consistent operations.

To support services migration throughout phasing, Faith Group worked closely with HP, Arora, and Gresham Smith to plan a modern, resilient network architecture, with inherent redundancy in place to migrate virtually and traditionally hosted services as needed when decommissioning infrastructure, systems, or network devices. Systems operating on the new Cisco network architecture will be served on the expanded virtual hosting environment by Nutanix, laying the groundwork for a future software-defined approach to integrated network operations and services. These upgrades work together to provide high-availability of services and infrastructure as the technology and tenant environment evolves.

Along with other improvements, the program will introduce cloud-hosted common use, procure a new multi-carrier Cellular Distributed Antenna System (DAS), deploy curbside technology systems and a new Building Management System (BMS), enable additional shared tenant service offerings, and enhance security posture through several advances in security technology systems and sensors. Along with traditional MSI services, Faith Group's effort also includes construction administration and construction-related activities, including design of bridging documents for temporary spaces while identifying and managing technology integration risks to do our part to ensure overall program success.

Zach Varwig
Principal-in-Charge
zach@faithgroupllc.com

FOCUS: EDUCATION

WAYNE STATE UNIVERSITY (WSU), CAMPUS ACCESS & SECURITY SYSTEMS REPLACEMENT

WSU has a 200+ acre campus, with more than 100 buildings and 24,000 students, uniquely designed and woven into the city of Detroit, MI. WSU Police Department (WSUPD) is the HQ for the National De-escalation Training Center (NDTC) designed specifically for law enforcement officers, providing special assessment and situational skills training that is noted to reduce conflict and avoid potential tragic scenarios for citizens and officers.

WSU has embarked on a strategic evaluation of its campus security and related business systems to establish a roadmap towards the integration of these platforms. The goal is to leverage new and emerging technologies to make improvements to campus safety, security, and the overall experience. Faith Group is conducting an in-depth assessment of the systems and related operations that influence security and the user experience. This includes access control, video surveillance, intrusion detection, student onboarding, OneCard strategy, and a roadmap towards mobile credentials. We performed an on-site existing conditions assessment, facilitated stakeholder workshops, and provided recommendations for innovation and digital transformation, delivering design blueprints and a robust cost estimating tool for the upgrades.

High level project goals include consolidating disparate campus access control systems, streamlining onboarding and offboarding, creating an inviting and safe campus, and developing a seamless integration with other systems. These integration opportunities included point of sale, meal plan management, housing management, library/asset rentals, parking access, and others. This comprehensive, holistic approach provides WSU with a valuable opportunity to expand its OneCard deployment, moving towards a keyless campus implementation, and incorporating industry trends that will directly enhance campus security, experience, and efficiency.

Members of Faith Group's security staff recently hosted WSU at the Global Security Exchange (GSX) conference, guiding them through the exhibit hall and facilitating private demos of the latest, applicable security technologies.

WSU's Sr. Director of IT Infrastructure, Juan Richardson said "I really enjoyed the GSX Conference. This has better prepared us to understand what we need to do going forward with our university projects and the possibilities of integration."

Mike Niola
Sr. Project Manager
Mike.Niola@faithgroupllc.com

FAITH GROUP AND HOK HOST ACC YP REGIONAL MEET-UP

HOK and Faith Group hosted an Airport Consultants Council (ACC) Young Professionals Meet-Up on Wednesday, July 19, 2023 at HOK's St. Louis office. We were joined by prominent aviation industry guest speakers who discussed their challenges, successes, career paths, and vision for the future of the airport industry. A big thank you to our panelists, speakers, and HOK for sponsoring the event.

Hosts:
- Kaven Swan, HOK
- Faith Varwig, Faith Group, LLC

Guest Speakers:
- Balram "B" Bheodari, Aviation General Manager – Hartsfield Jackson Atlanta International Airport
- Cathryn Stephens, Airport Director - Eugene Airport
- Rhonda Hamm-Niebruegge, Executive Director - St. Louis Lambert International Airport
- Marci A. Greenberger, Manager - Airport Cooperative Research Program (ACRP)
- TJ Schulz, President - Airport Consultants Council (ACC)

SPEAKING ENGAGEMENTS

Dave Fleet spoke at this year's National Airports Conference (NAC)

Dave Fleet was a panelist in a breakout session titled, "Improving Airfield Safety Through Airport Safety Management Systems: Best Practices and Lessons Learned", at the NAC23 Conference in Spokane, WA on September 11th.

The breakout session covered airside safety in the post-pandemic era and the keys to success for Safety Management Systems (SMS) Implementation.

Faith Group was also an Airport Angel Conference Sponsor.

Zach Varwig to be speaker at ACI PSS

Zach Varwig will be attending ACI PSS in Arlington, VA and will be speaking at a session titled: "AI: Friend or Foe" on Tuesday, October 24th at 3:30pm EST.

SAEFIX, A FAITH GROUP COMPANY, COLLABORATES WITH HPE ON AI CENTER OF EXCELLENCE

Saefix and Faith Group are pleased to announce an expanded relationship with Hewlett Packard Enterprise (HPE). This collaboration complements the Saefix/ Faith Group Artificial Intelligence Center of Excellence (AI CoE) lab environment, which leverages the latest high-performance NVIDIA GPU hardware and ISV software applications purpose-built for AI workloads that require highly dense and capable hardware at the network edge.

Click here to read the full press release.

GLOBAL SECURITY EXCHANGE (GSX) CONFERENCE

Members of Faith Group's security staff attended the GSX Conference in Dallas, TX. Our staff served as technology ambassadors for the week to our clients and guided them through demonstrations of the latest technologies and solutions. Each staff member that attended GSX, including our veterans, was able to learn about new technologies and use cases.

Click here to learn more about what technologies were showcased and some of the key takeaways from our security experts.
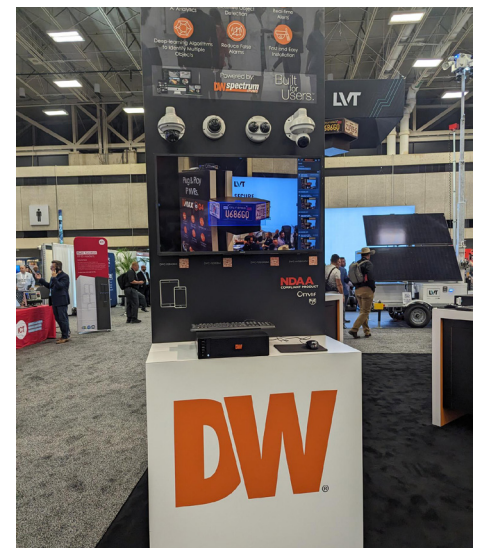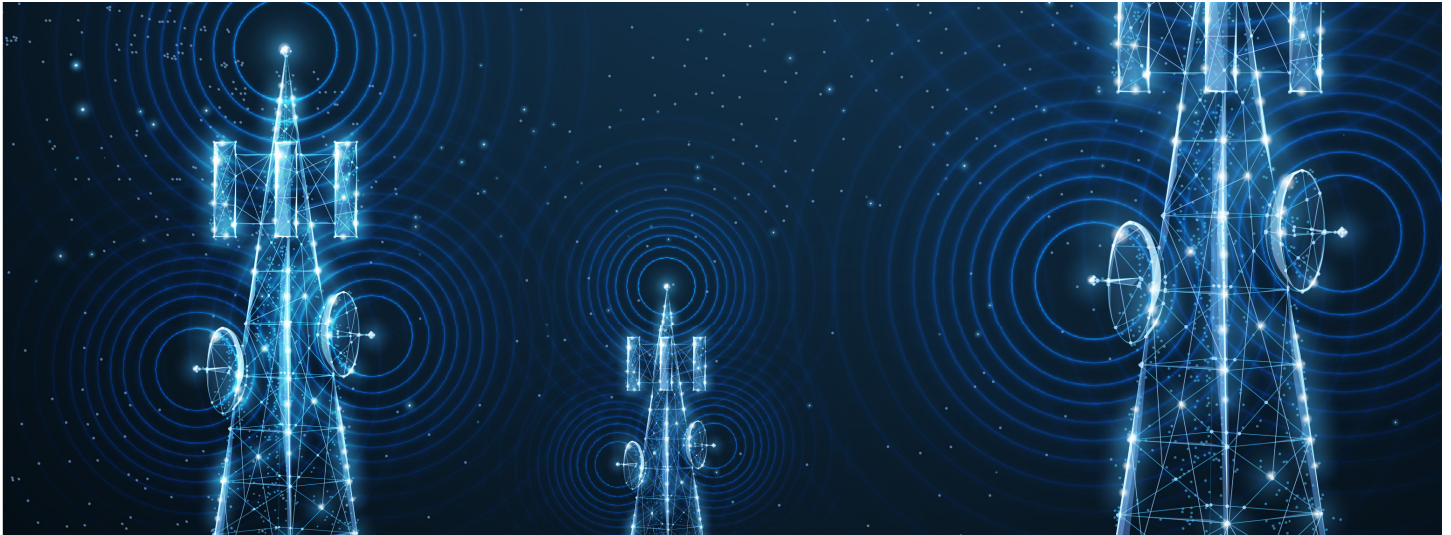
TECH UPDATE: PRIVATE NETWORKS

Private LTE and 5G networks are not just buzzwords anymore. They are becoming more and more popular in various industries, such as mining, agriculture, education, healthcare, warehousing, construction, and many others. But what makes them so attractive and useful? The answer lies in the technology behind them. Private LTE and 5G networks use simplified network architectures that enable faster speeds, lower latency, and better connections than Wi-Fi. They also support a wider range of Internet of Things (IoT) deployments.

Private LTE and 5G networks have four main benefits:
1. Expanded Coverage
2. Reduced Interference
3. Improved Security
4. Flexibility

Expanded Coverage
One of the main benefits of private LTE and 5G networks is their expanded coverage, which is ideal for places such as a facility or campus that need better wireless coverage. They use small cells that are based on cellular technology and can cover larger areas with fewer devices than Wi-Fi. They also have higher radio frequency (RF) specifications that provide good performance at the cell edge and smooth handovers. Small cells come in three types: microcells, picocells, and femtocells. Each type has different power levels, coverage areas, and user capacities.

Reduced Interference
Wi-Fi uses unlicensed frequencies that are prone to interference from other devices and networks, which can affect the throughput and reliability of the connection. Private LTE and 5G networks have more frequency options that reduce the chance of interference. These options include:

- *Shared spectrum:* Citizens Broadband Radio Service (CBRS) with general availability access (GAA). This is a shared spectrum band that allows anyone to use it without a license, as long as they do not interfere with the incumbent users or the priority access licensees.

- *Licensed spectrum:* leased spectrum from a cellular operator. This is a licensed spectrum band that gives you exclusive rights to use it within a certain area and time period.

- *Unlicensed spectrum:* unlicensed 5GHz band. This is an unlicensed spectrum band that is also used by Wi-Fi, but with different technologies and protocols that can avoid or mitigate interference.

Improved Security
LTE and 5G technology encrypts your data and has better authentication mechanisms than Wi-Fi, making it a more secure choice for your sensitive data. With public Wi-Fi networks, anyone who knows how to can capture your data. With private LTE and 5G networks' improved security, you own the core network servers and cell sites, which gives you more control over your data.

Flexibility
Private LTE and 5G networks are flexible, giving you the ability to customize your network to meet your specific needs. Users can control the speed and capacity by choosing the number of users and spectrum that you deploy. Users can also control the Quality of Service (QoS) by setting priority levels for different types of applications such as setting business-critical applications with the highest priority level and best effort applications that don't require low latency or high bandwidth at a lower priority. Private LTE and 5G networks can use standardized or customized QoS flows to assign priority levels to different applications based on their needs.

Private LTE and 5G networks put the user in control of their coverage, security, and network applications. They offer advantages in coverage, interference, security, and flexibility over Wi-Fi networks.

For more information and best practices, contact us, and we'd be happy to walk through the options available to you to help you make an informed decision.

Rick Adams
Director of Technology Services
rick@faithgroupllc.com