



IMPROVING SECURITY, STABILITY,  
AND CONNECTIVITY

# ICT + Security Group

**GHAFARI**

SPACE  
TO  
THRIVE



WHO WE ARE

# Bridging the success of businesses and people.



Ghafari is a global engineering, architecture, process design, consulting, and construction services firm driven to meet the distinct needs of every client. For nearly 40 years we have created spaces and processes that help businesses and people thrive.

## AVIATION EXPERTISE

Globally recognized as aviation experts, Ghafari uses rigorous methodologies to streamline the industry's toughest projects.

Our experience in the aviation industry spans the entire spectrum of airport facilities, from passenger terminals and aircraft maintenance hangars, to cargo centers and mission-critical facilities. Our approach is rooted in a strong understanding of each facility - from the role it plays in our clients' business to the way it fits within an existing airport environment.



**Our global offices share insights and resources so that each client receives the same caliber of service and quality, no matter where they are in the world.**

**REPRESENTATIVE CLIENTS**

**Domestic**

American Airlines  
Chicago Department of Aviation  
Delta Air Lines  
FedEx Express  
Southwest Airlines  
United Airlines  
US Navy  
Wayne County Airport Authority

**International**

Abu Dhabi Airports Company  
AMMROC  
Azul Brazilian Airlines  
Ernesto Cortissoz Int'l Airport  
Hamad International Airport  
Oman Air  
Qatar Airways  
SAEI / Saudi Arabian Airlines  
Turkish Airlines

**#9**

**RANKING**

*Building Design + Construction* ranked us among the top engineering / architecture firms in the U.S.

**TOP 5**

**RANKING**

We are ranked #4 on *Building Design + Construction's* "Top Airport Facilities Engineering Firms" list.

**TOP 20**

**RANKING**

We are ranked #19 on *Engineering News-Record's* list of the top airport designers.

**75**

**AIRPORTS**

The experienced professionals in our Global Aviation Division have worked on projects at 75 airports.

**33**

**COUNTRIES**

We have completed projects in 33 countries around the world.

**2 TIME**

**WINNER**

We are proud to be a National Best and Brightest Company to Work For.





## ICT + SECURITY CAPABILITIES

# We strengthen operations around the world through customized data, security, and telecommunications solutions.

Our proven ICT + Security Group includes electrical engineers, telecommunication and electronic engineers, registered communications distribution designers, computer network designers, and accredited data center designers - all focused on improving the intelligence of facilities.

Our experienced team members have earned certifications from some of the world's leading organizations dedicated to advancing security, telecommunications, and information technologies.

These certifications include:

- Accredited Tier Designers (Uptime Institute)
- Aviation Security Professional Managers (Int'l Civil Aviation Organization)
- Certified Technology Specialists (InfoComm Int'l)
- Registered Communications Distribution Designers (Building Industry Consulting Service Int'l)



AVSEC

PROFESSIONAL  
MANAGEMENT  
COURSE (AVSEC PMC)







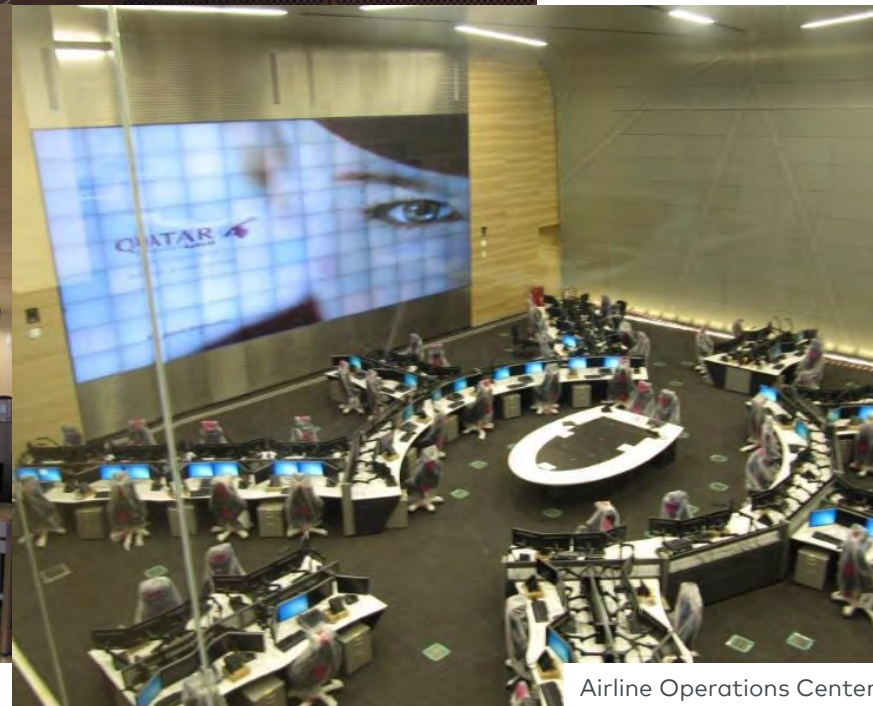
Perimeter Security



Security Operations Center



Security Operation Upgrade FIS Area



Airline Operations Center



Network Equipment



Integrated Operations Command Center

### ICT + AUDIOVISUAL ENGINEERING

- Asset Tracking
- Audiovisual Systems
- Building Management Systems
- Command Control Facilities
- Data / Telecommunications Infrastructure
- Data Center Active Component Design
- DC Lighting
- Dense Wavelength Division Multiplexing
- Local Area Networks
- Operational Control Rooms
- Outside Plant Fiber Optic Networks
- Master Antenna Television / Cable
- Television / Internet Protocol Television
- Master + Ethernet Clock Systems
- Mission-Critical Systems
- Smart Building Integration Platforms
- Video Conferencing + Audio Systems
- Wireless Local Area Networks

### SECURITY ENGINEERING

- Aviation Security (Threat / Risk Analysis)
- Electronic Safety and Security (CCTV + ACS Engineering)
- Intercom Systems
- Access Control and Security
- Security Design
- Security Risk Assessments
- Security Upgrades
- Security System Audits

### LIFE SAFETY ELECTRONICS

- Area of Rescue Systems
- Fire Alarm / Mass Notification Systems
- Public Address Systems
- Safety Design
- Smoke Travel Simulations with FPE Tool



**TECHNOLOGY**

**We stay at the forefront of client-driven innovation to improve delivery, cost, and quality.**

Ghafari was founded on the promise of technological innovation. Each day, we continue to raise the bar – finding new ways to harness technology in order to help clients do their best.

**BUILDING INFORMATION MODELING**

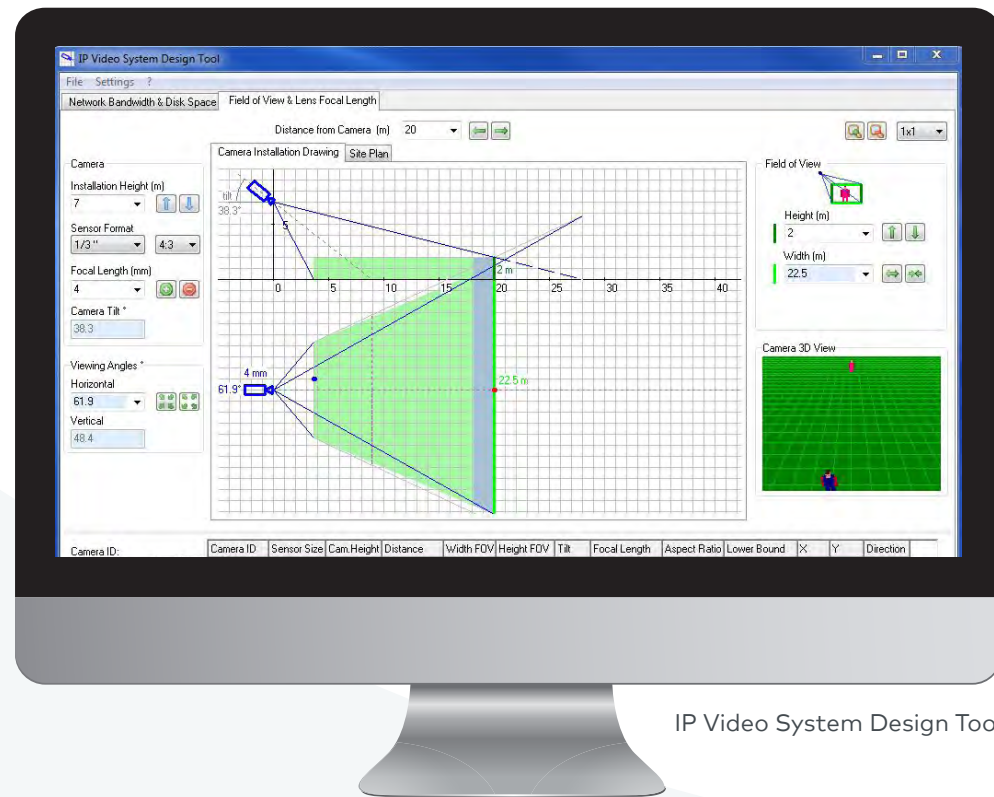
Early on in our search for greater efficiency, we began using building information modeling (BIM) to simplify complex projects.

BIM empowers integrated teams with a shared understanding of project intricacies. A BIM-enabled approach unites our design team with the owner and contractor, allowing us to make collective decisions that are better informed and drive efficiency in project delivery. More than just a visualization software, BIM enables a team-wide exchange of critical data, facilitates interactivity among building systems, and lets us tackle project challenges with greater intelligence and deeper analysis.

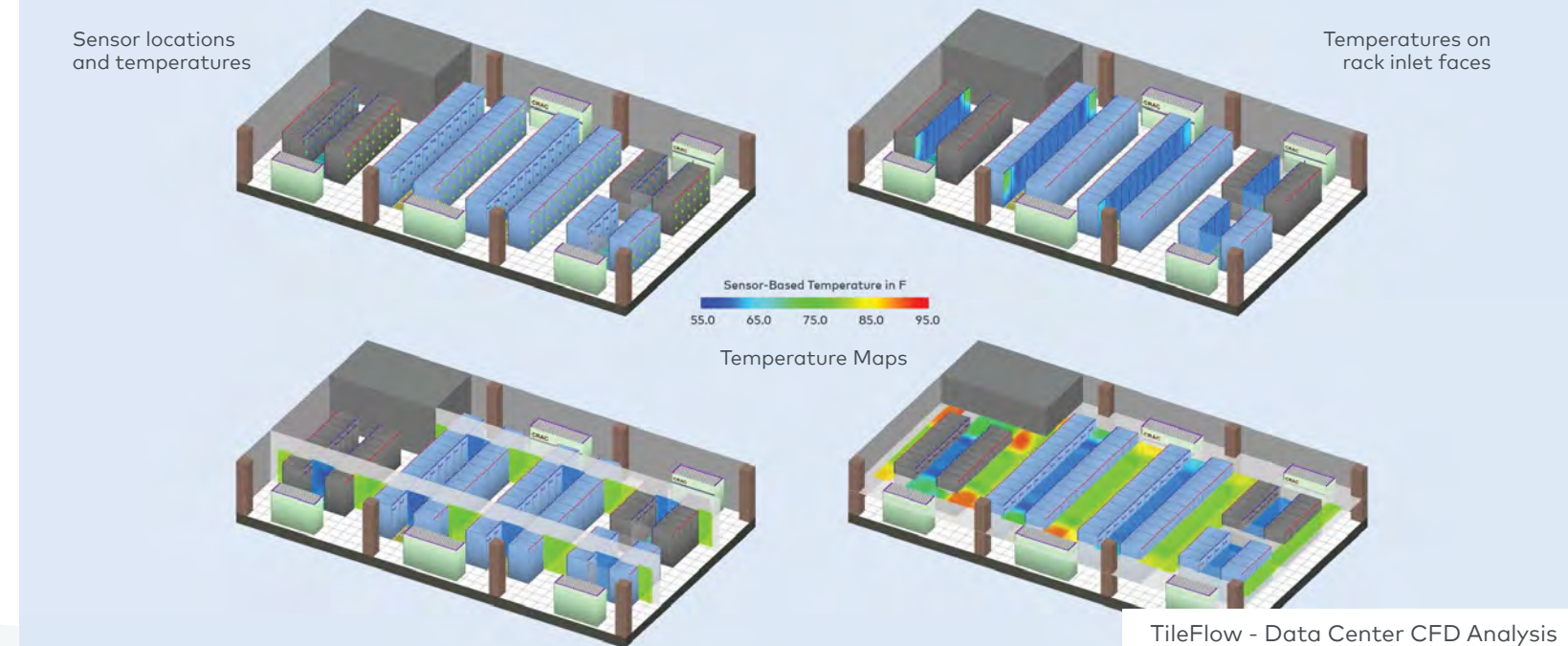
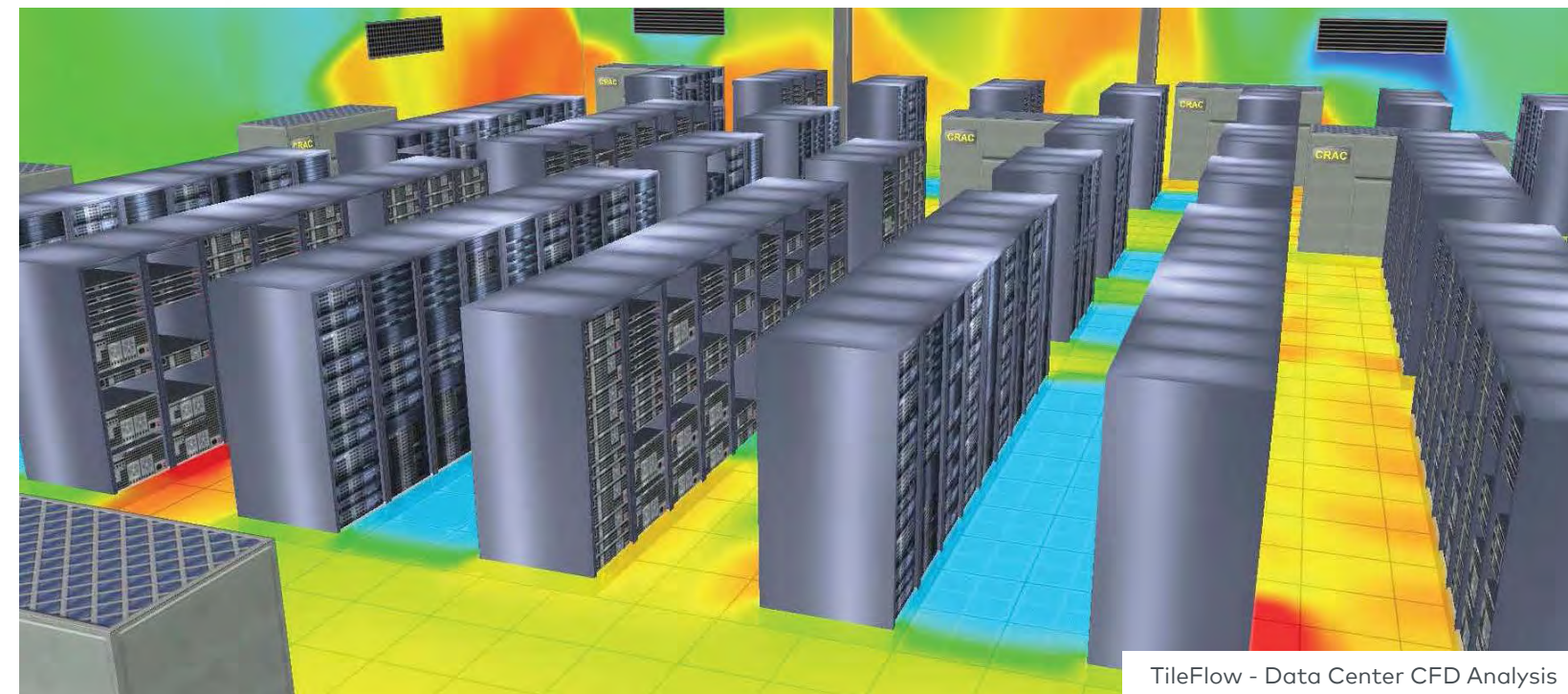
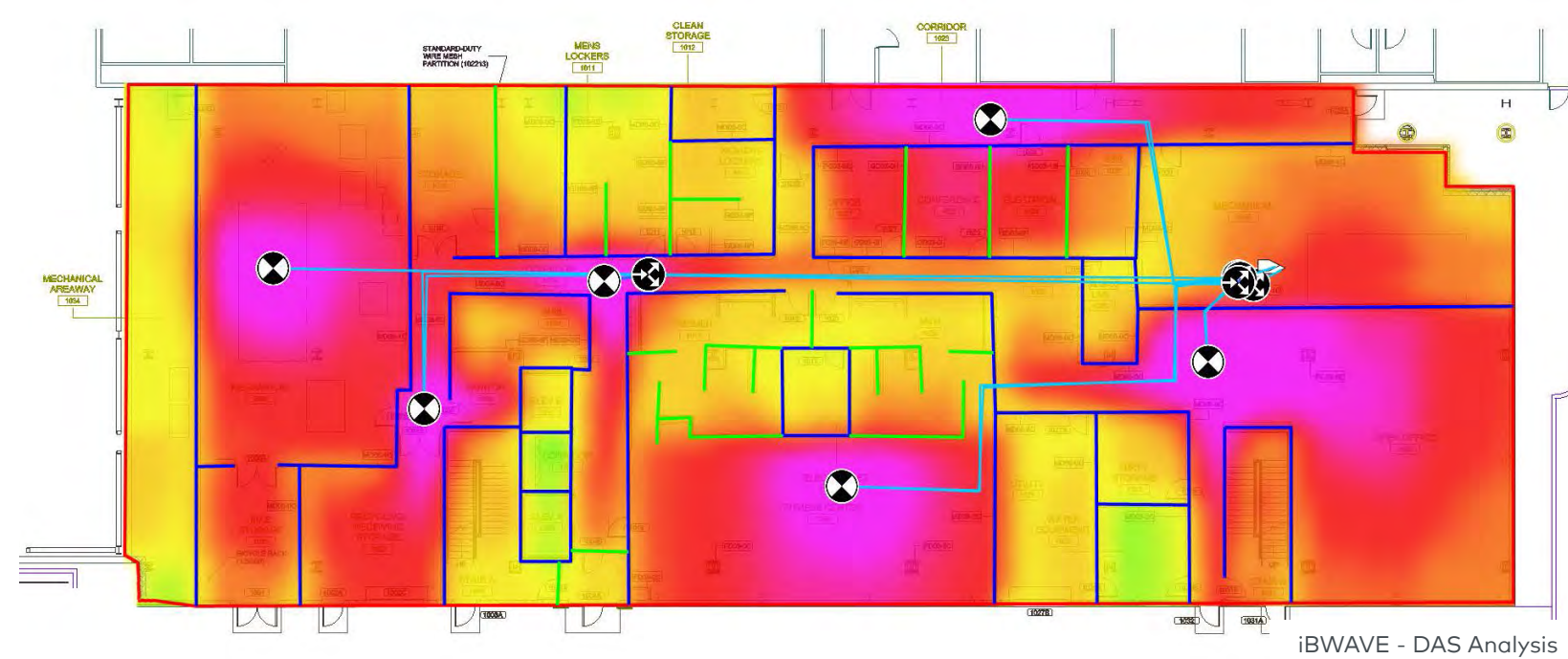
**SOFTWARE WE USE**

Our ICT + Security Group uses the following software programs:

- Autodesk AutoCAD
- Autodesk Revit
- EASE – Enhanced Acoustic Simulator for Engineers
- Ekahau Wi-Fi Design
- iBwave
- IP Video System Design Tool
- TileFlow - Data Center CFD Analysis



IP Video System Design Tool





## **OFFICE LOCATIONS**

Birmingham, Alabama USA  
Chicago, Illinois USA  
Dearborn, Michigan USA  
Detroit, Michigan USA  
Fort Worth, Texas USA  
Greenville, South Carolina USA  
Indianapolis, Indiana USA

Mexico City, Mexico  
São Paulo, Brazil  
Baroda, India  
Istanbul, Turkey  
Abu Dhabi, UAE  
Jeddah, Saudi Arabia  
Muscat, Oman

## **FOR MORE INFORMATION**

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