



**2020 EDUCATION PROGRAM • FREE INDUSTRY SESSION**

**MON. FEB. 3 • 10:30AM – 11:30AM • LOCATION: W311C**



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# Building Systems Integration 101 – Welcome to the Jungle – Becoming an Integrator

Presented by [AutomatedBuildings.com](https://AutomatedBuildings.com)

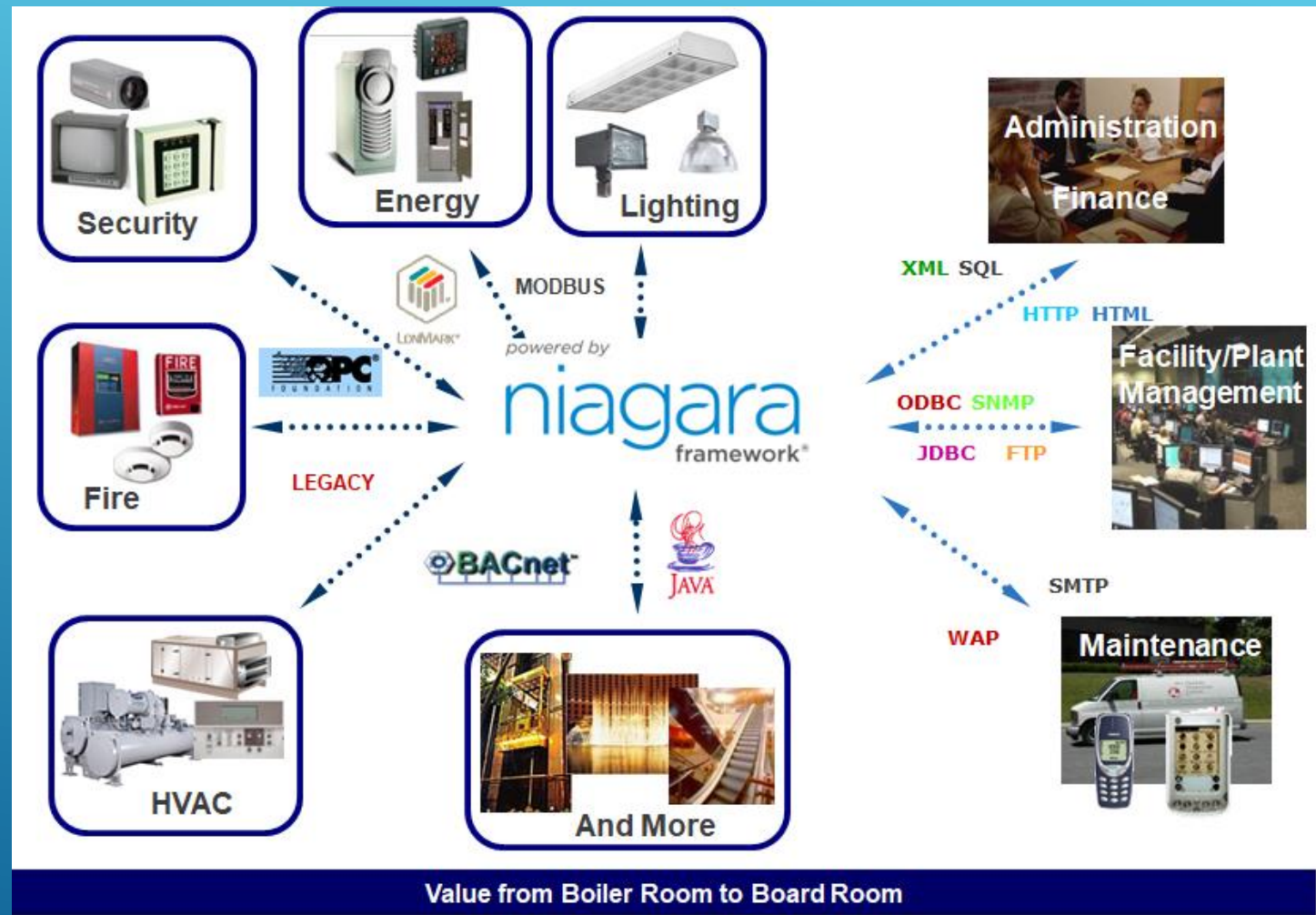
# Systems Integration | What is it?



An aggregation of subsystems cooperating so that the system is able to deliver overarching functionality

# How Does Systems Integration Work?

- Each System has a Networked Data Layer
- The Systems Connect on a common Operational Technology Network (OT Network)
- Software Platforms on the OT Network to Pull, Push, Control, Monitor, Protect, Trend and Alarm the Aggregated Control System Data
- Connect and Protect the OT Network so it can communicate with the users through other networks and enterprise applications



# Systems Integration | What is its Purpose?



- **Improved Visibility, Control and Cyber Security** for building control systems
- **Allow Owners to Choose Best of Breed products** for each application without utilizing a single vendor
- **Can Bring Old Control Systems to Current Standards** instead of ripping out and replacing working systems on old computers, huge budget reductions
- **Connects Building Control Systems to the Internet and Enterprise Applications**

# What is a Systems Integrator?



A **SYSTEMS INTEGRATOR** is a person or company that specializes in bringing together component subsystems into a whole and ensuring that those subsystems function together, a practice known as system integration.

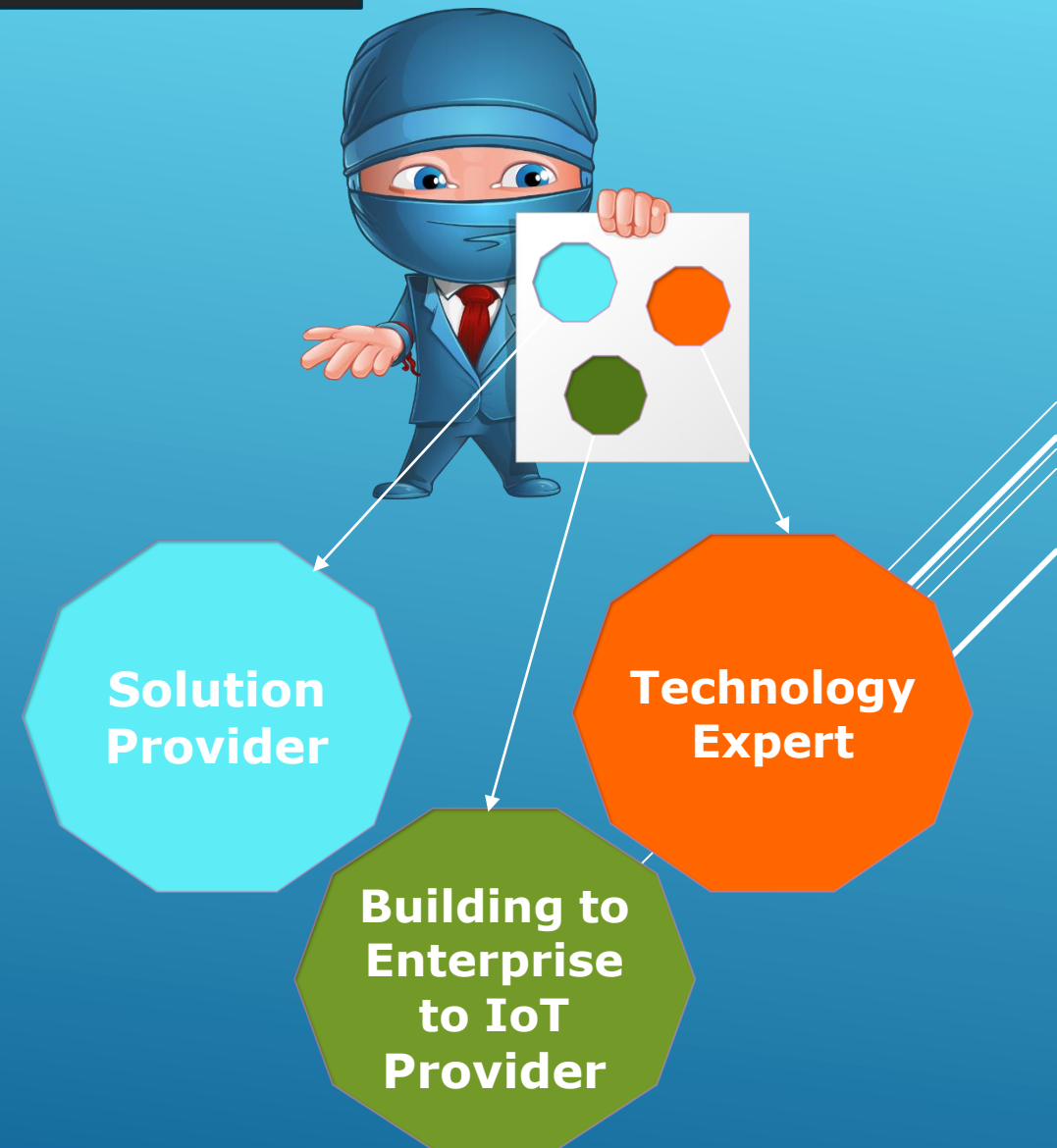
# Systems Integration Responsibilities

## Technology Expert - Consultant

- Educate construction team
- Smart design through knowledge
- Value engineer design
- Look for synergy to save money
- Review progress to ensure direction of systems
- Collaborates with IT Departments

## Solutions Provider – Develops User Experience

- Provides software that allows all systems to communicate to each other
- Connects subcontracted systems and provides the interfaces required to run and advance the building



# Systems Integrators Capabilities

- Building Controls – Installation, Programming and Service
  - HVAC/BAS
  - Lighting Control
  - Asset Management and Security
  - Life Safety
  - Data Center
- IT / OT – Installation, Programming and Service
  - Network Design
  - Cyber Security
  - Enterprise Software
    - Authentication
    - Scheduling
    - ERP



# Systems Integration Resources

- Wikipedia
  - [https://en.wikipedia.org/wiki/System\\_integration](https://en.wikipedia.org/wiki/System_integration)
- AutomatedBuildings.com
- Cochran Tech Services
  - [www.cochranetechservices.com](http://www.cochranetechservices.com)
- Building Automation Monthly
  - [www.buildingautomationmonthly.com](http://www.buildingautomationmonthly.com)





THANK YOU!

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