

# BAS Value in a Smart Grid

**Tom Glennon**

**Director of Engineering**

**Honeywell**

# EBI: Scalable, Flexible, Powerful

... a large multi-site and/or multi-application solution

**EBI Server**  
Optionally  
Redundant



**Stations or Browsers**



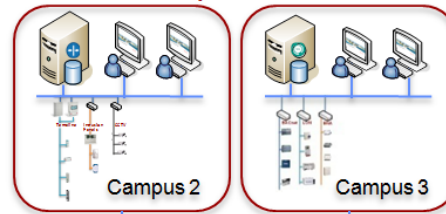
**Wireless Devices**  
(Operations and Maintenance)



**Open Systems**



**Distributed System Architecture**



**Casual Users**



**MIS/Human Resources**



**LAN**

**WAN**

**Honeywell Building Manager Server**  
Optional

BACnet LON BNA

Honeywell and Third Party Controllers

**Building Manager**

**Honeywell Energy Manager Server**

Modbus M-Bus Lon

Wireless Ethernet and Modbus

Pulse meters

Intelligent Meters

**Energy Manager**

**Honeywell Life Safety Manager Server**  
Optional

Excel Life Safety Panel

**Life Safety Manager**

**Honeywell Security Manager Server**  
Optional

Temaline Intrusion IdentIPoint Panels

Honeywell and Third Party Controllers

**Security Manager**

**Digital Video Manager Database Server**  
Optionally Redundant

Digital Video Manager Camera Server

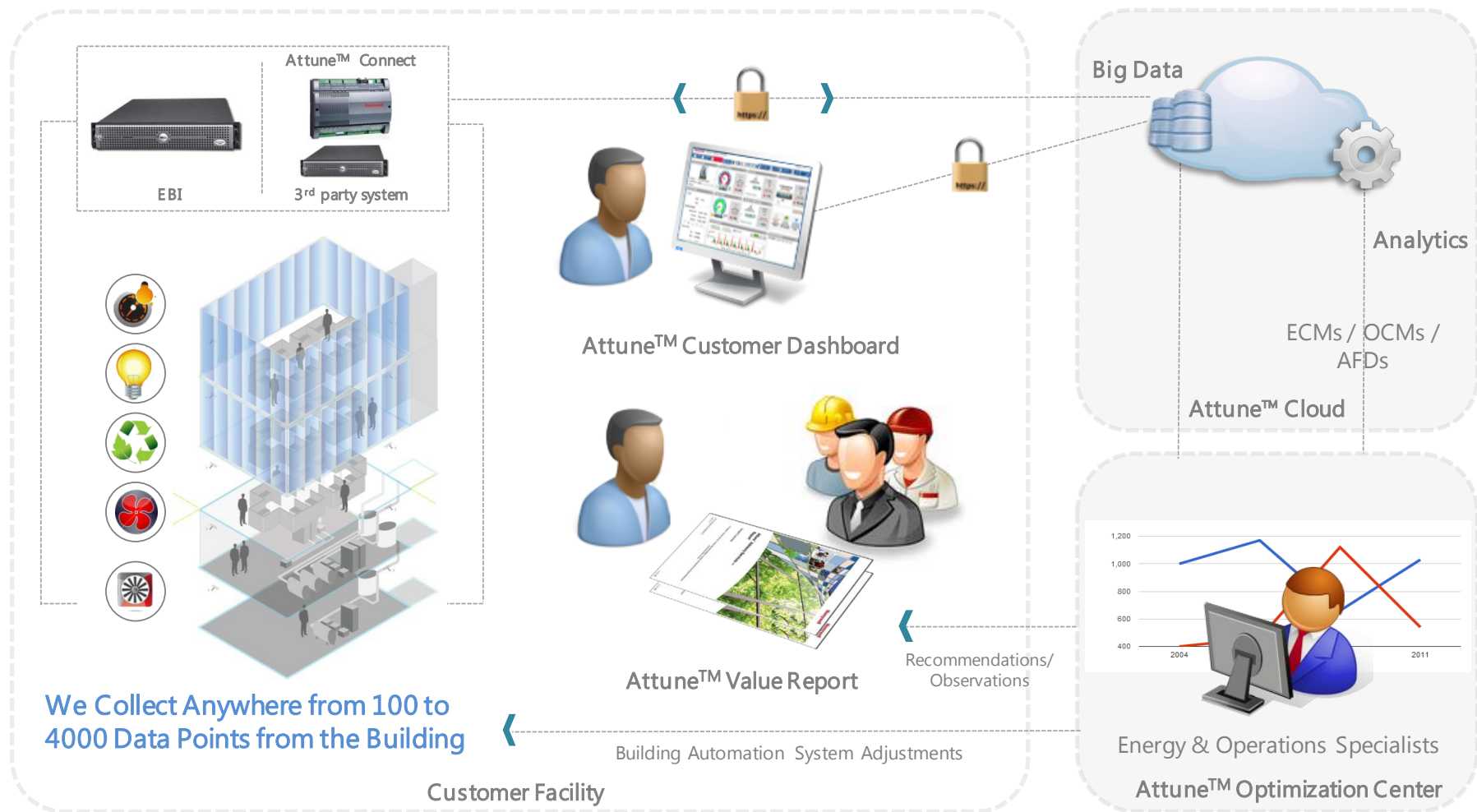
Honeywell Video Analytics Server

IP Cameras

Analog Cameras

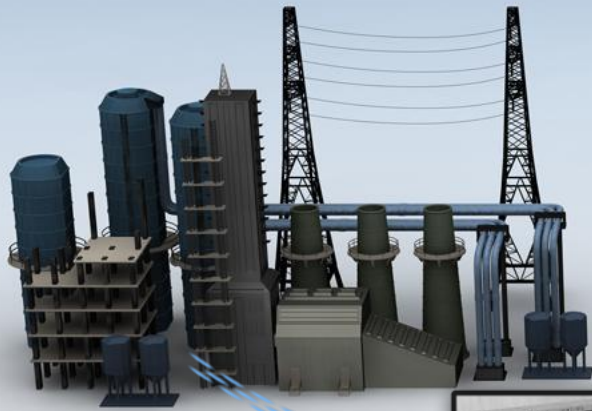
**Digital Video Manager**

# Attune™ Services Overview



**Connect – Baseline – Improve – Optimize**

# How Honeywell Auto DR Works



1

## UTILITY

As soon as the utility senses an impending peak event, your facility's system is immediately notified.

2

## DRAS

Honeywell's Demand Response Automation Server (DRAS) receives the signal from the utility.

3

## OPEN ADR CONTROLLER

The Open Automated Demand Response controller embedded in your system retrieves the alert.

4

## EMS

The building's Energy Management System (EMS) automatically carries out all of your predetermined directives.

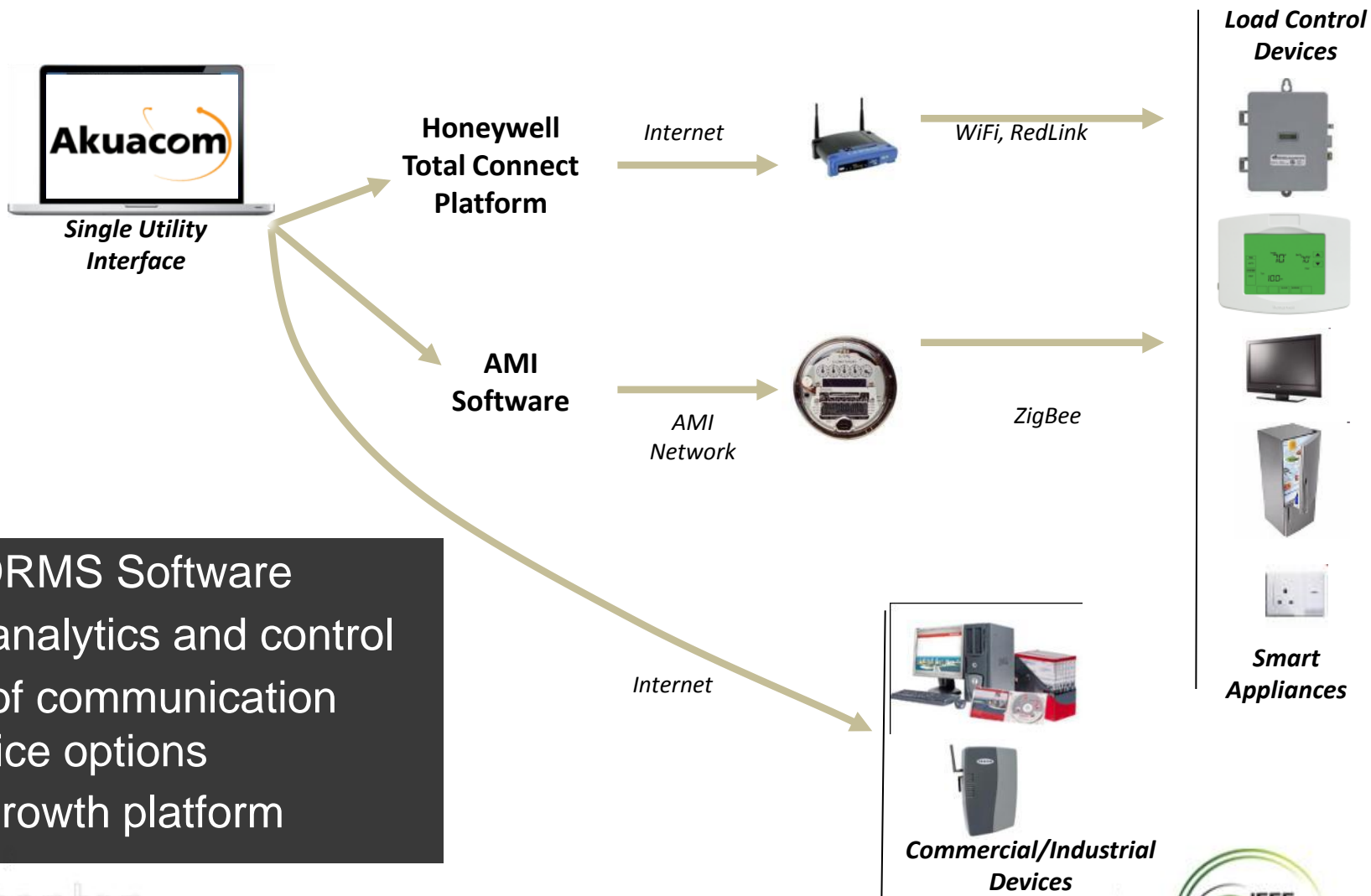
5

## FACILITY

Non-essential lighting is curtailed. HVAC settings and pre-selected equipment (motors, pumps, etc.) are adjusted.

Facility types include: industrial (shown here), educational, retail, healthcare, office buildings and government agencies.

# Flexible Standards Based DR Platform



- Single DRMS Software
- Unified analytics and control
- Variety of communication and device options
- Future growth platform

# THANK YOU!

**Tom Glennon**

**Director of Engineering– Honeywell Building Solutions**

**Email: [Thomas.Glennon@Honeywell.com](mailto:Thomas.Glennon@Honeywell.com)**