

Corporate Overview



Johnson, Mirmiran & Thompson, Inc.

Founded 1971

1,500 employees

100% Employee-owned

Core Values:

Safety
Quality
Integrity
Relationships

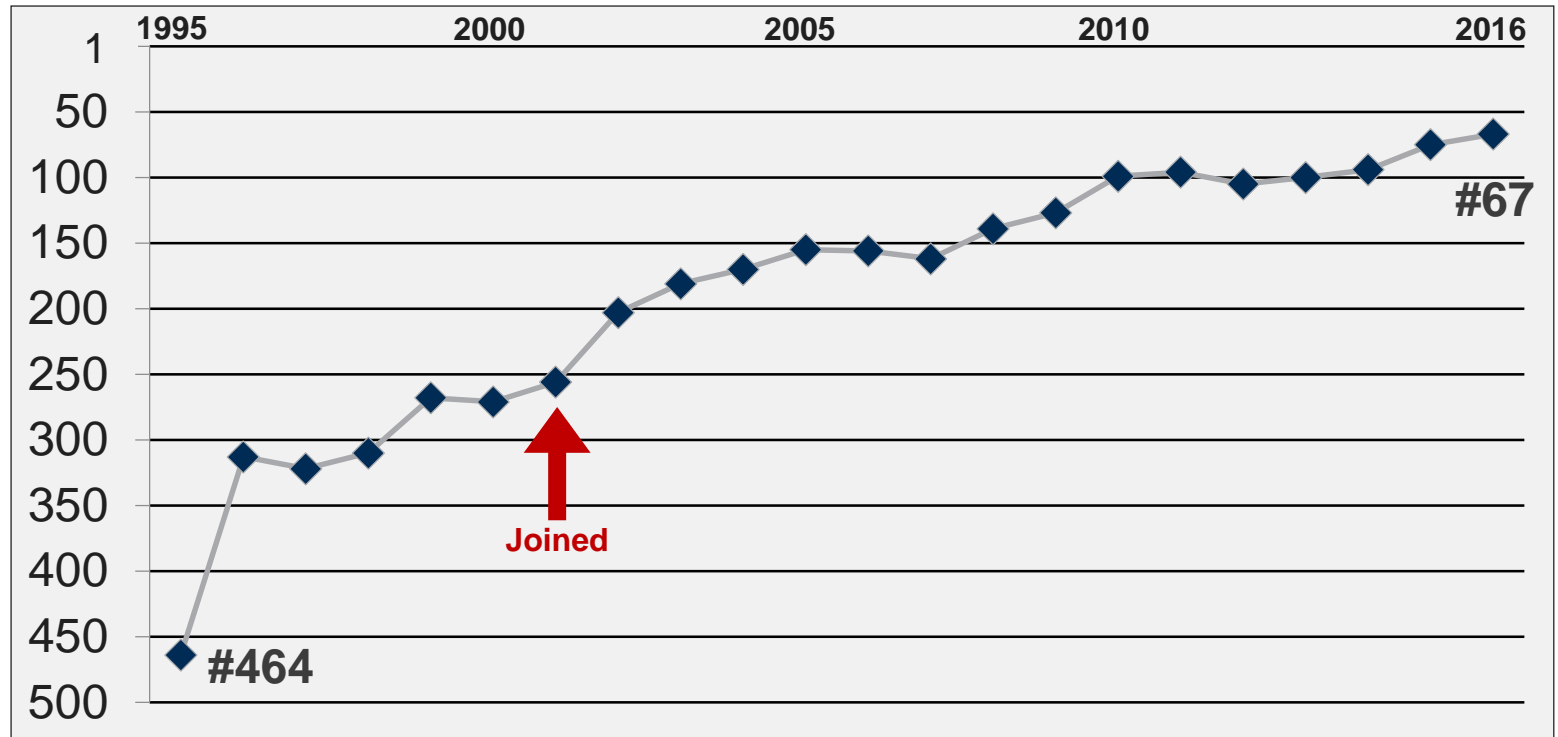
Mission:

To provide quality professional services that produce positive impacts and exceed expectations through imagination, innovation, involvement, and sound technical and business practices.



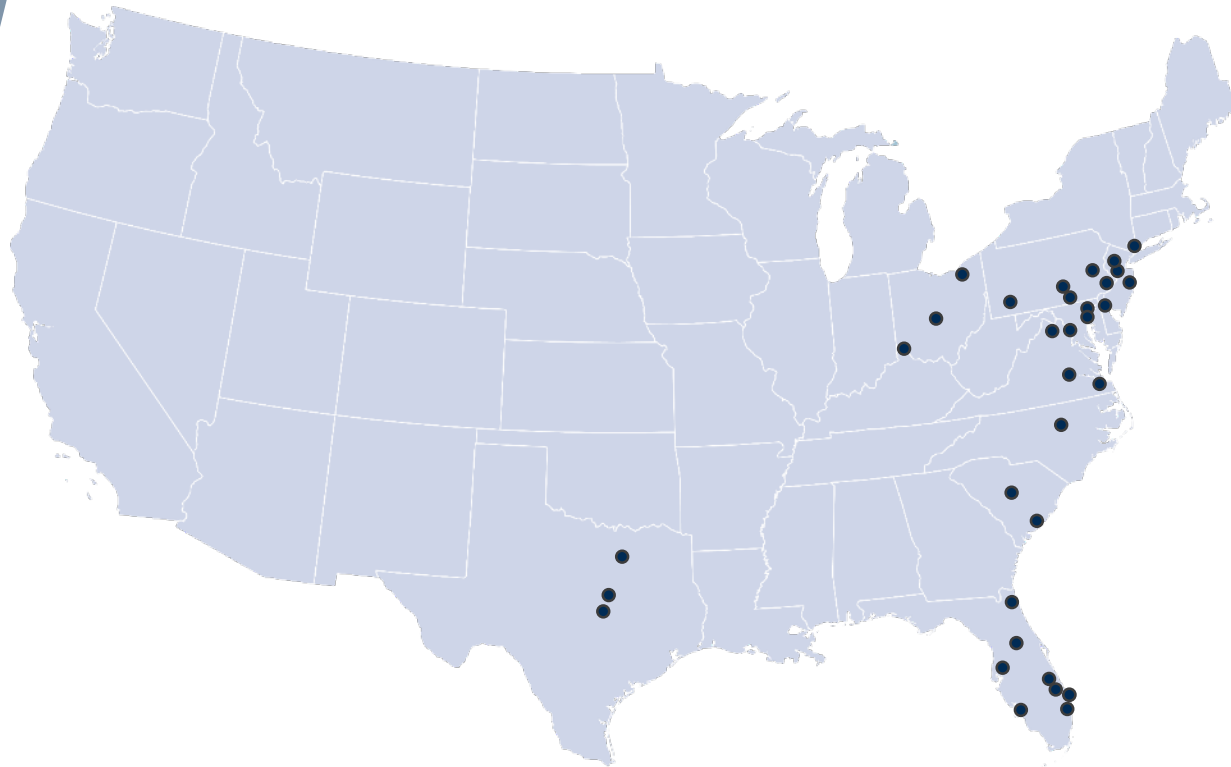
JMT's Continued Growth

Ranked #67 in the US among ENR's Top 500 Design Firms



- Ranked No. 43 in the U.S. among 'Pure' Design Firms (April 2016)
- Ranked No. 22 in the U.S. among Transportation Firms (July 2016)
- Ranked No. 11 in the U.S. among Highway Design Firms (July 2016)

Office Locations



Allentown, PA
Austin, TX
Charleston, SC
Cincinnati, OH
Cleveland, OH
Columbia, SC
Columbus, OH
Fort Lauderdale, FL
Georgetown, TX
Harrisburg, PA
Herndon, VA
Jacksonville, FL
Kinnelon, NJ
Lake Mary, FL
McKinney, TX
Naples, FL
Newark, DE
Newark, NJ
New York, NY
Palm Beach Gardens, FL
Philadelphia, PA
Pittsburgh, PA
Port St Lucie, FL
Raleigh, NC
Richmond, VA
Sparks, MD (headquarters)
Tampa, FL (2 offices)
Towson, MD
Trenton, NJ
Vero Beach, FL
Virginia Beach, VA
Washington, DC
York, PA

Perform Services Nationally

Selected Clients

State Clients

Maryland Department of Transportation
Maryland Department of General Services
Maryland Stadium Authority
District (of Columbia) Department of Transportation
Delaware Department of Transportation
Florida Department of Transportation
New Jersey Department of Transportation
New Jersey Turnpike Authority
New York City Department of Transportation
New York City Department of Environmental Protection
New York State Department of Transportation
Pennsylvania Department of General Services
Pennsylvania Department of Transportation
Pennsylvania Turnpike Commission
South Carolina Department of Transportation
Virginia Department of Transportation
West Virginia Department of Transportation

Local / Private Clients

Education
Healthcare
Industrial/Commercial

Federal Clients

Federal Highway Administration
Federal Bureau of Investigation
Federal Energy Regulatory Commission
Food and Drug Administration
Naval Facilities Engineering Command
National Park Service
U.S. Air Force
U.S. Architect of the Capitol
U.S. Coast Guard
U.S. Department of Agriculture
U.S. Army Corps of Engineers
U.S. General Services Administration
U.S. Fish & Wildlife Service
U.S. Department of Veterans Affairs
U.S. Senate

Energy & Telecommunication Clients

Baltimore Gas & Electric
PEPCO
Verizon
Gas & Pipeline Companies

Our Core Markets

Transportation



Buildings & Facilities

Water, Wastewater & Utilities



Energy

Federal Programs



Information Technology



Our Core Services

Surveys & Mapping

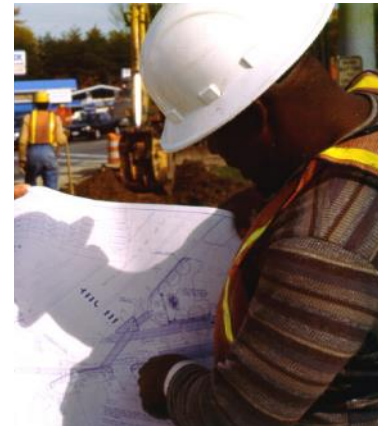
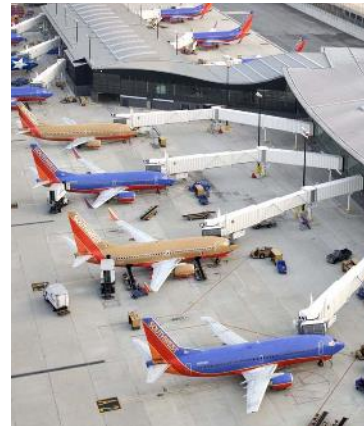
Planning

Design

Program & Construction
Management

Environmental &
Sustainable Solutions

Innovative Project Delivery



Bill Smith & JMT History

- Joined JMT September 2002
- **Dual Role**
 - CIO
 - Develop a Technology Business Practice
- **JMT Technology Group** Brand
- Relinquished Technology Group responsibilities
January 2016

JMT Technology Group Overview

Division within JMT for external client services

75 + Information and Geospatial Technology Professionals

Portfolio

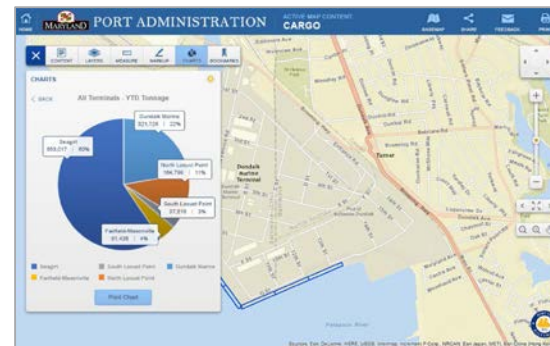
- Geographic Information Systems
- Enterprise Information Management
- Asset Management
- Business Intelligence
- Licensing & Registration



JMT Technology Group Overview

Services

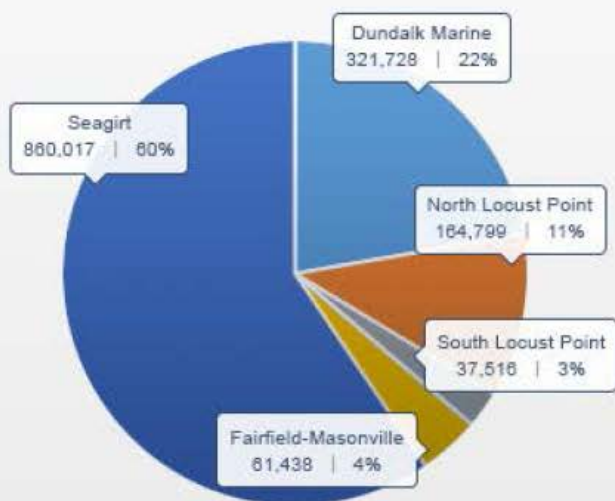
- Business Analysis
- Needs Assessment & Strategic Planning
- Program Management
- Data Services
- GIS Analysis & Modeling
- Applications Development
- Interactive & Multimedia Design
- System Integration
- Technical Writing
- Training
- IT Design, Implementation & Administration
- Call Center, Help Desk, IVR Services



CHARTS

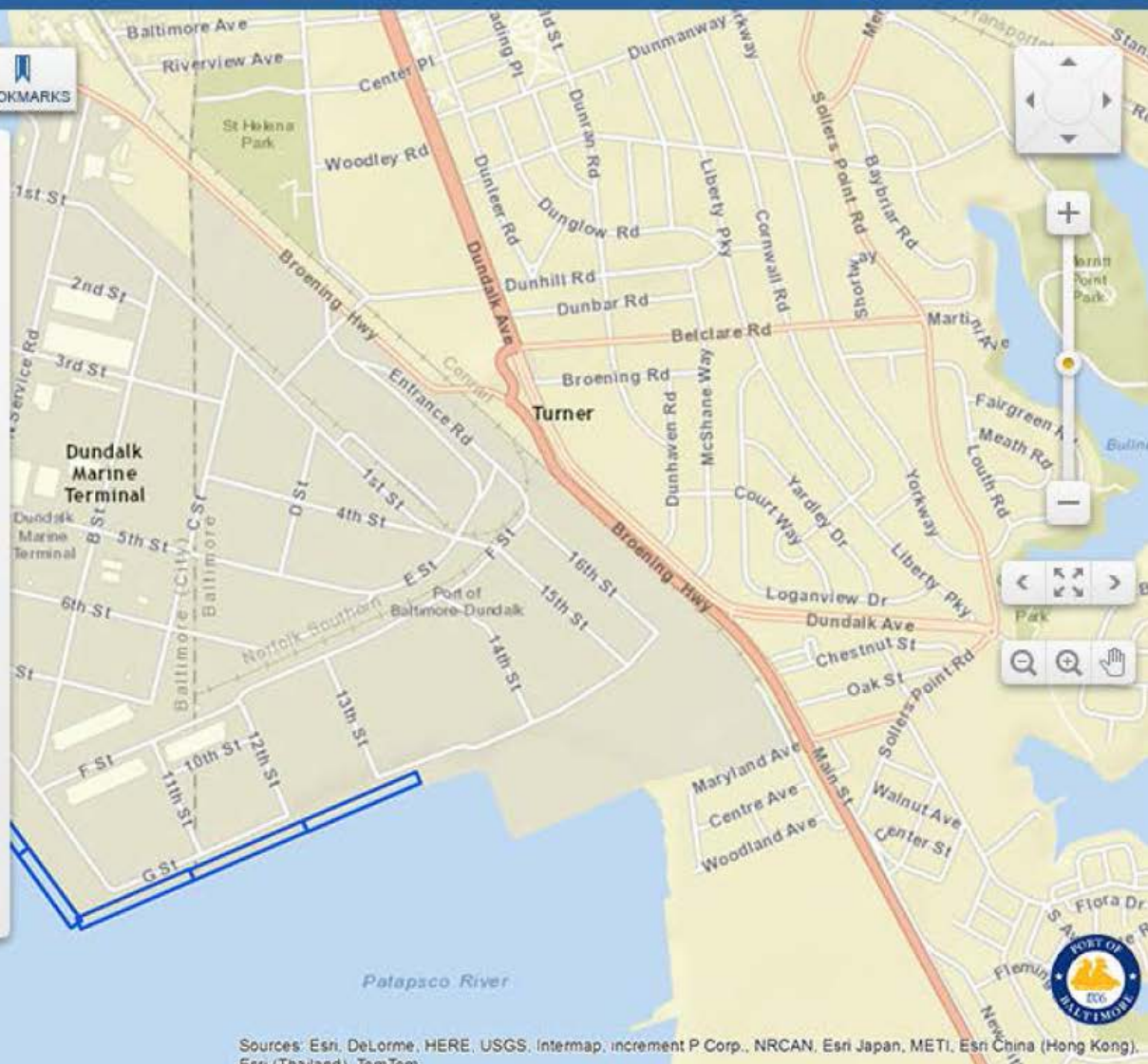
< BACK

All Terminals - YTD Tonnage



■ Seagirt ■ South Locust Point ■ Dundalk Marine
■ Fairfield-Masonville ■ North Locust Point

Print Chart



Search Results

Food

Choose a terminal



Aldo Lamberti Trattoria

Angelina's Panini Bar

Asian Chao

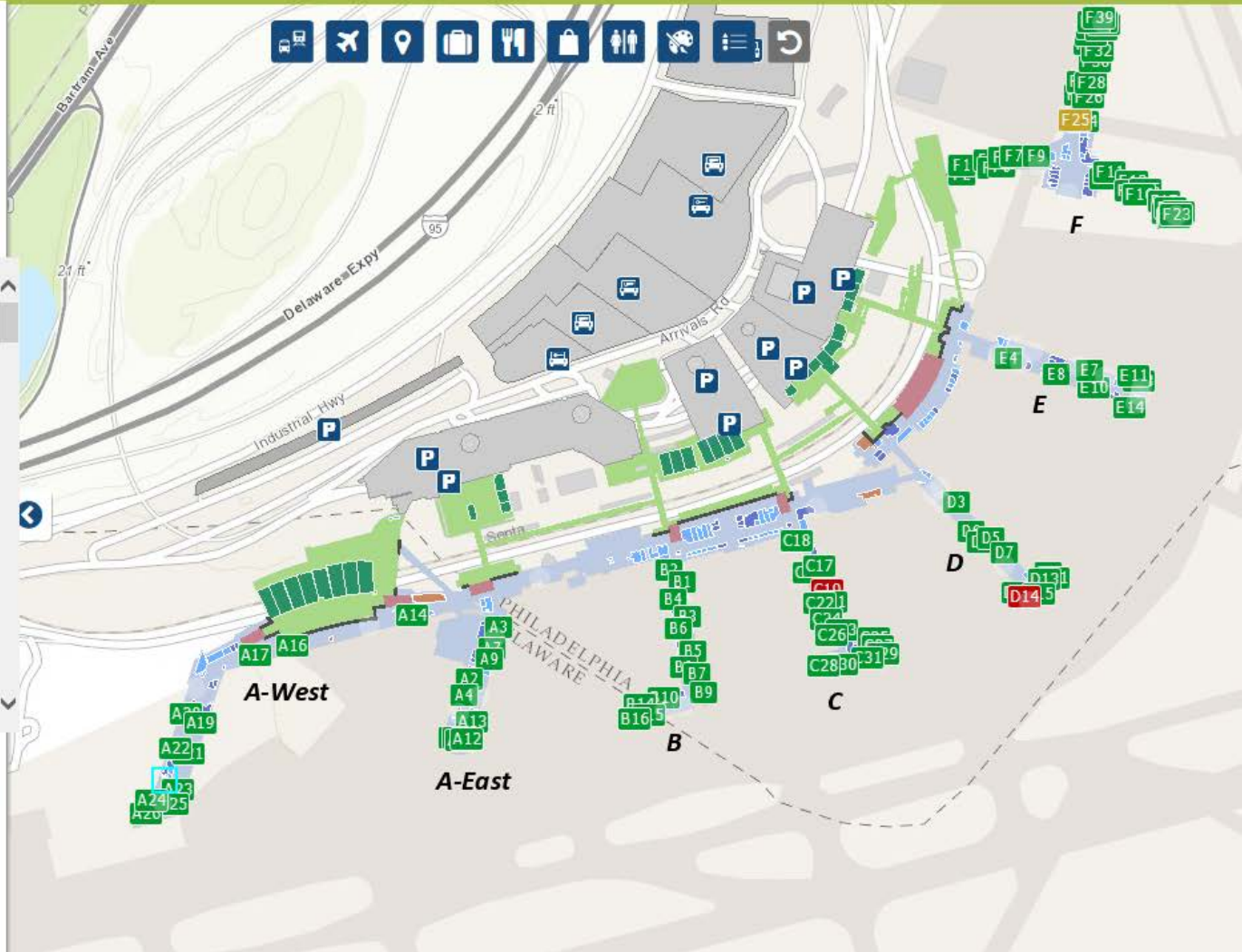
Au Bon Pain A-West

Au Bon Pain C

Au Bon Pain E

Au Bon Pain F

Auntie Anne's B/C



LAYER

FILTERS

BASEMAP

PRINT

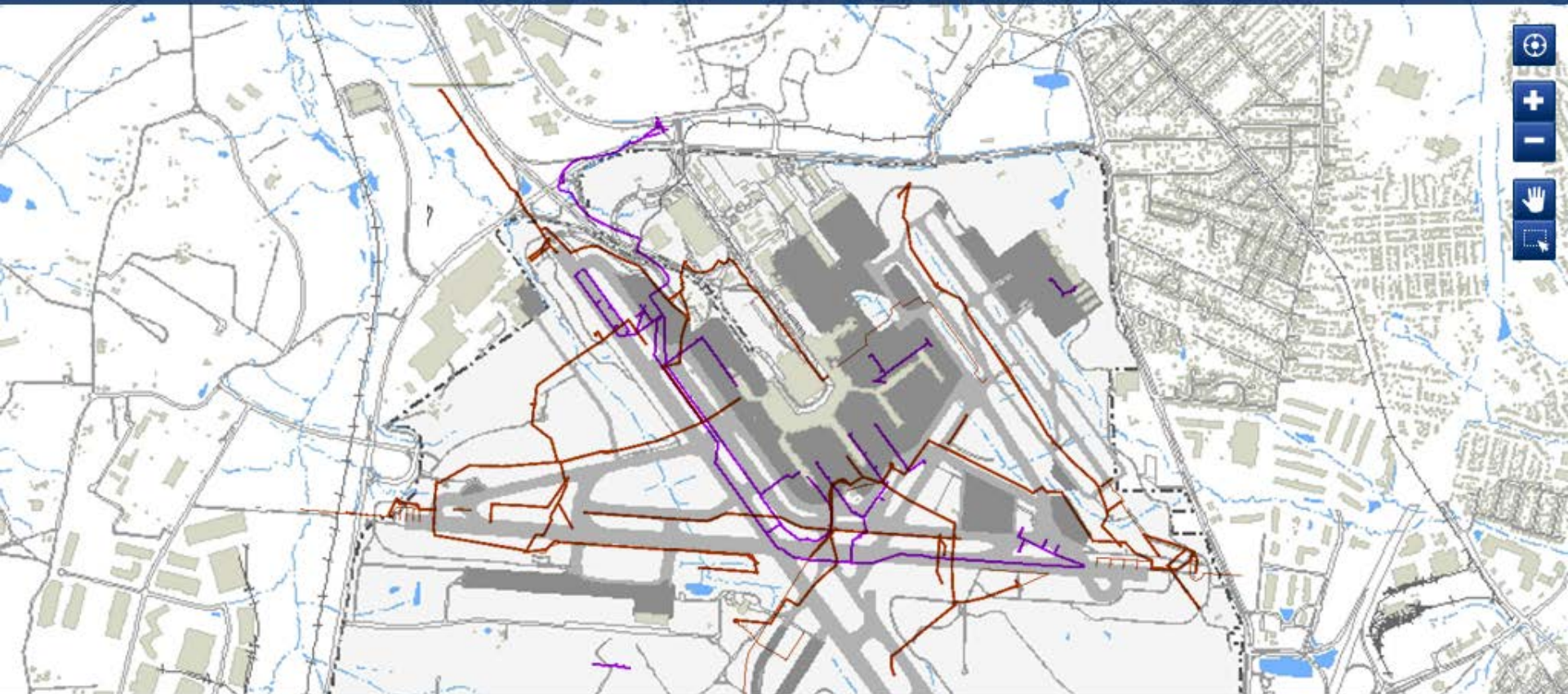
SHARE

MEASURE

REDLINE


SNAPSHOT

BOOKMARKS



- Navigation Equipment (3)
- FAA Junction (17)
- FAA Cable (18)
- FAA Ductbank (8)

OWNER	REFERENCE NAME	TYPE	
FAA	RVR-A	RVR	Zoom Documents Photos
FAA	MTR-D	DISCONNECT	Zoom Documents Photos
FAA	GLSLP-A	GLIDE SLOPE	Zoom Documents Photos



Engineering Record

Project #:

MAA-CO-14-018

Project Title:

Expansion of Pier C Information System Room at BWI

Task #:


3443.00


of Files:

26

Comment:

None

 Launch

 Cart

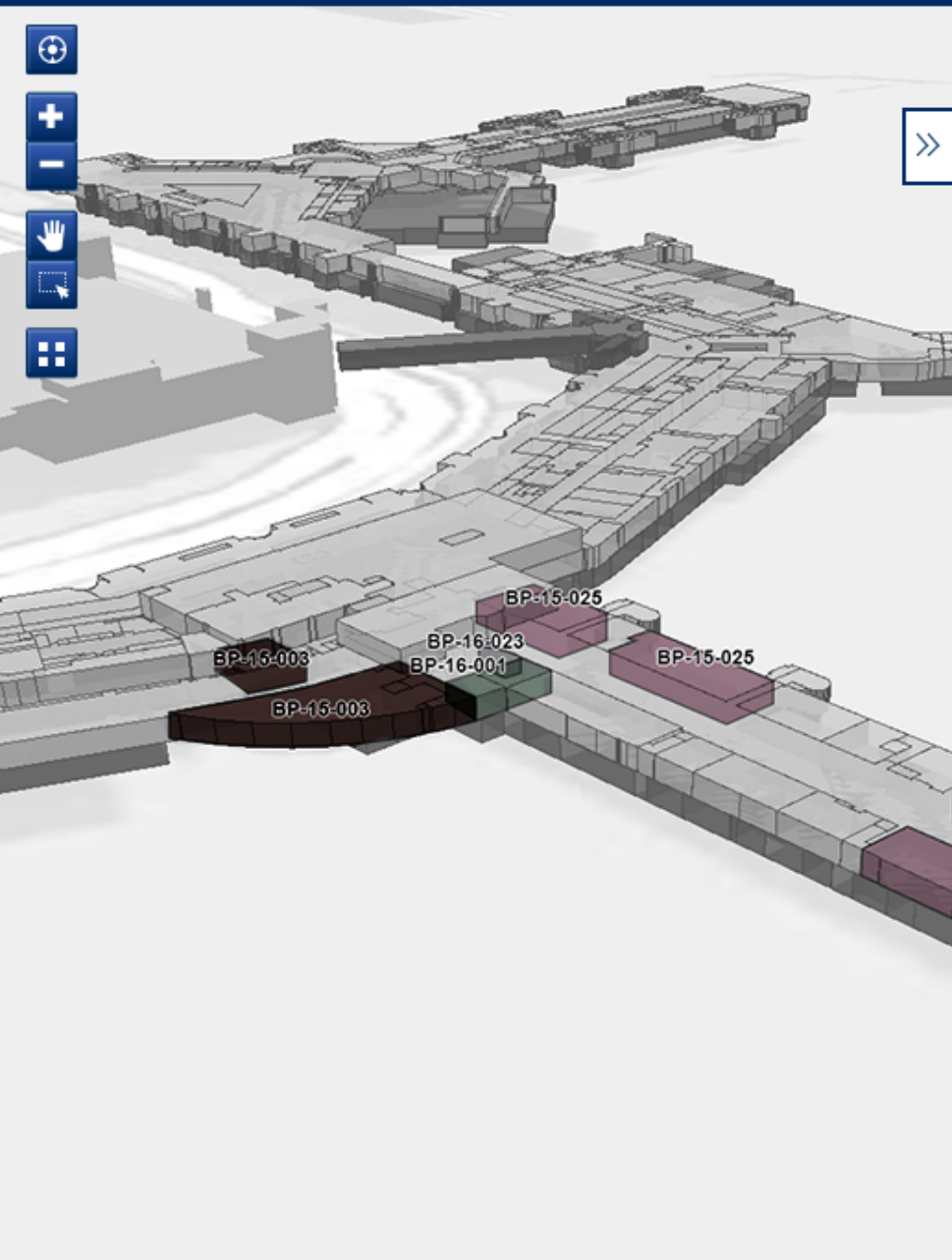

Engineering Rec. (22 Records)	Building Perm. (45 Results)	Work Orders (115 Results)	Geotechnical (16 Results)	Capital Projects (6 Results)
<div>MAA-CO-16-003 (006)</div> <div>Terminal B/C Lower Level Fire Supression and Alarm</div> <div>41 Files</div>	<div></div> <div></div> <div></div>	<div></div> Launch	<div></div> Cart	
<div>MAA-CO-15-0150 (001 an...</div> <div>Comprehensive Pavement Marking for BWI - Task 001 - Airside, Task 002 - Lan...</div> <div>37 Files</div>	<div></div> <div></div> <div></div>	<div></div> Launch	<div></div> Added	
<div>MAA-CO-15-011 (003)</div> <div>Loading Dock Renovations at Terminal C Lower Level at BWI - Not Constructed</div> <div>27 Files</div>	<div></div> <div></div> <div></div>	<div></div> Launch	<div></div> Cart	
<div>MAA-CO-14-018</div> <div>Expansion of Pier C Information System Room at BWI</div> <div>73 Files</div>	<div></div> <div></div> <div></div>	<div></div> Launch	<div></div> Added	
<div>MAA-CO-14-014</div> <div>Passenger Boarding Bridge Replacement 2013</div> <div>26 Files</div>	<div></div> <div></div> <div></div>	<div></div> Launch	<div></div> Cart	
<div>MAA-CO-14-013</div> <div>Electrical Substation NT-CT and NT-D Replacements</div> <div>140 Files</div>	<div></div> <div></div> <div></div>	<div></div> Launch	<div></div> Cart	
<div>MAA-CO-14-007 (043)</div> <div>Concourse C Column Base Repairs</div> <div>15 Files</div>	<div></div> <div></div> <div></div>	<div></div> Launch	<div></div> Cart	
<div>MAA-CO-14-007 (010)</div> <div>Cute Ticket Counter Sitework and Airline Office Renovations</div> <div>31 Files</div>	<div></div> <div></div> <div></div>	<div></div> Launch	<div></div> Cart	
<div>MAA-CO-14-007 (008)</div> <div>Concourse C Roof Replacement</div> <div>29 Files</div>	<div></div> <div></div> <div></div>	<div></div> Launch	<div></div> Cart	

[Advanced Search](#)

BWI


MTN

130

Engineering Rec.
(7 Records)Building Perm.
(8 Results)Work Orders
(0 Results)Geotechnical
(10 Results)Capital Projects
(0 Results) BP-16-023
Demising Wall C120
5 Files


Launch

Cart

 BP-16-018
SWA Fit Out of Gates C9 and C11
37 Files

Launch

Cart

 BP-16-006
Potbelly C Rebuild
49 Files


Launch

Cart

 BP-16-001
Marshall Rousso
20 Files

Launch

Added

 BP-15-031
Southwest Airlines Fit out of Gate C-13 for BWI
14 Files


Launch

Cart

 BP-15-025
American Airlines Rebranding
26 Files


Launch

Cart

 BP-15-009
Harbor Grille
41 Files

Launch

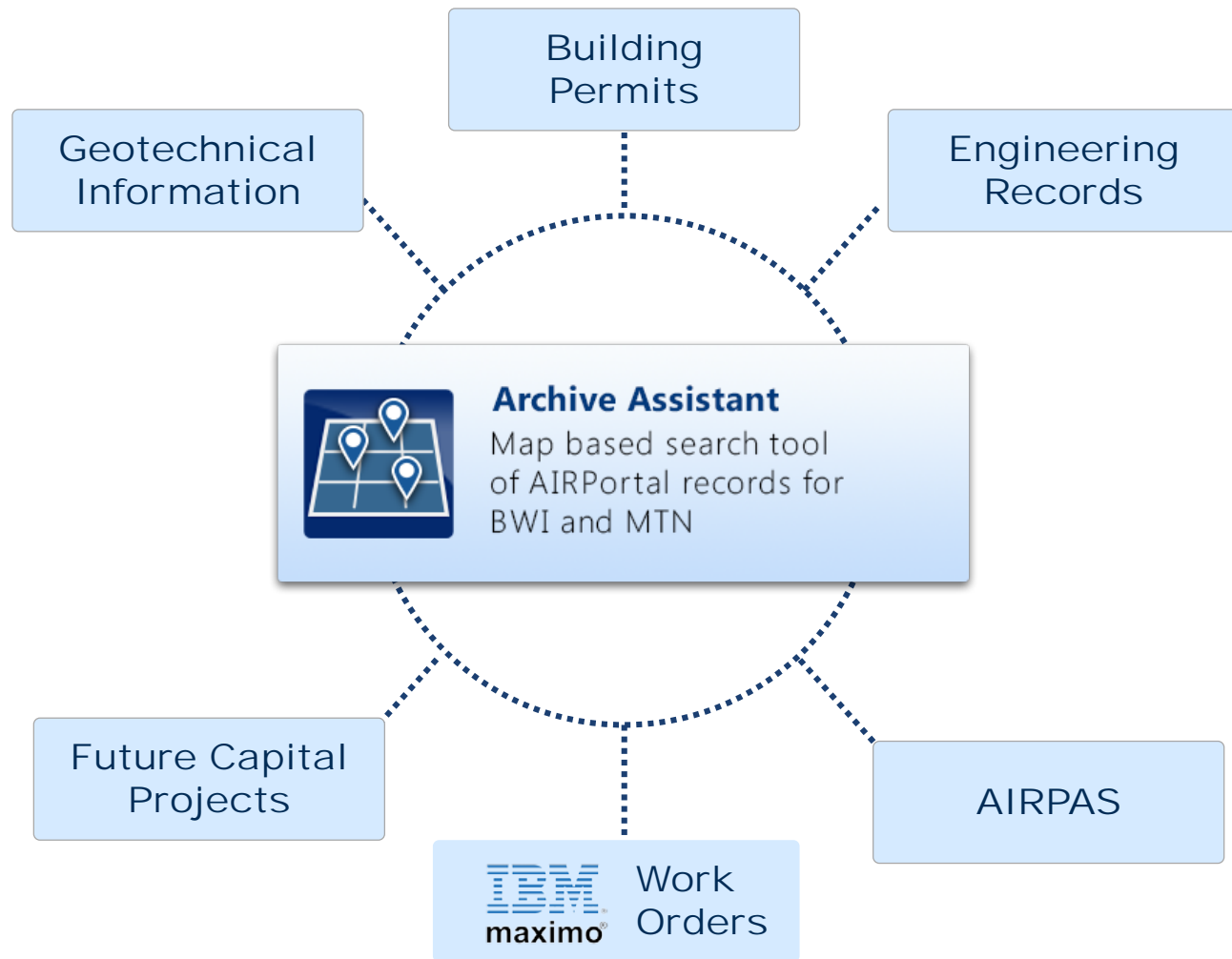
Cart

 BP-15-003
Firkin & Flyer Pub and Lounge
67 Files

Launch

Cart

Application Architecture



West Virginia DNR Electronic Licensing & Game Check System



Login with ELS
Username and Password

Login with SSN
and Date of Birth

Username:

Password:

[Forgot Password?](#)

☐ Remember me?

Login

Don't Have an Account? [Enroll Here](#)

System Update

Hunters and trappers may now check their game via the telephone at 1-844-WVCheck, the website www.wvhunt.com, or by visiting a license agent. Hunters and trappers must obtain their DNR ID number before using the telephone game check option. To see more information consult the [2016-2017 Hunting and Trapping Regulations](#), page 44.

Purchasing a license is more convenient than ever before. This site will allow you quick and easy access to hunting and fishing licenses, regulations and other important information about outdoor recreation in West Virginia.

Using ELS you can...

[Purchase a License](#)

[Manage your DNR Profile](#)

[Renew a License](#)

[Print Field Tags](#)

[Re-Print a License](#)

[Check Game](#)



Hunting Regulations



Fishing Regulations



Licensing Information



[ELS User Guide](#)

[Frequently Asked Questions](#)

[Customer Service](#)

Print License Applications:

[Lifetime Licenses](#)

[Senior Lifetime Licenses](#)

[Disabled Veteran and POW Hunting/Fishing Permit](#)

[Class Q Special Hunting/Fishing Permit](#)

[Class Y Crossbow Permit](#)

[DDFL Application](#)

IT Overview



IT Organization and Staff Overview

- 24 Full Time Employees
 - Augmented by consultants and contractors
- **Deputy CIO** – Mike Ingoe
- **Functions**
 - Service Desk
 - Business Applications
 - Infrastructure – Network, Servers, Storage
 - Security
 - Design Technologies Group
 - Strategic Advisory & Innovation
- Ratio: 1 IT staff / 62.5 employees
- Direct Labor Salaries ~ \$2M


IT Overview

- **Our IT Portfolio**
- Locations
- Service Desk
 - Hardware/Software Procurement
 - PC's, tablets and phones
 - Printers (>100) & Plotters (35)
 - Vendor Management
- Infrastructure
 - Data Center
 - Network (Internet, Wan & Lan)
 - Telephony and collaboration
 - Server, Storage, Backup
- Bi-Modal IT

Locations

- 26 Offices
- 8 Site Offices/Trailers
- M&A Integrations
- Office Moves

Corporate Headquarters Move

- Plan February 1, 2017
 - Sparks to Hunt Valley
 - Build a NEW network
 - Plan & execute the transition
 - Physical move of computers, phones, printers, plotters
- 



Service Desk

Extension 5555 or ITHELPDESK@jmt.com

- Employee support (calls, emails, tickets) **7/24/365**
 - 24-Hour support (Vitalyst)
 - Office Liaisons
 - Requisition workflow process automation
- Hardware/Software Procurement & Deployment
 - PC's, tablets and phones*
 - Computer (new users & refresh)
 - Software Deployment (new, updates)
 - Patch Management
 - Software License maintenance and audits
- Vendor Management
 - Printers (>100) & Plotters (35)
- Audio Visual & Collaboration Support
- MDM implementation and support
- User account creation, maintenance and deactivation
- Cisco Call Manager maintenance and support

Software Titles & Applications

Over 400 Software Titles

- Desktop & Productivity Applications
- Business Applications
- Engineering Applications
- Development Applications

Productivity Applications



Visio



Project



PRIMAVERA



Adobe® Creative Cloud™



CISCO **JABBER**

Enterprise Applications



Talent Management
Competency Management
Compensation Management

Enterprise Applications



HRIS

Benefits Administration

Employee Self Service

Payroll

Enterprise Applications



Microsoft Dynamics® CRM

Lead & Opportunity Management

Pipeline

Client Relationship Management

Contact Management

Qualifications Management

People

- Education
- Professional Licenses
- Work

Firm

- Work
- Contracts
- Projects

Enterprise Applications



Project Planning & Accounting

Finance & Accounting

Contract Management

Supply Chain & Procurement

AR & AP

Resource Planning

Analytics

Enterprise Applications



Team Collaboration

Project Sites

Proposal Sites

Intranet

Blogs

Wiki

Portals

Reports

Employee Info

Enterprise Applications



Microsoft®
SQL Server®
Reporting Services



Power BI

Business Intelligence, Analytics & Dashboard

Financials

Project Manager

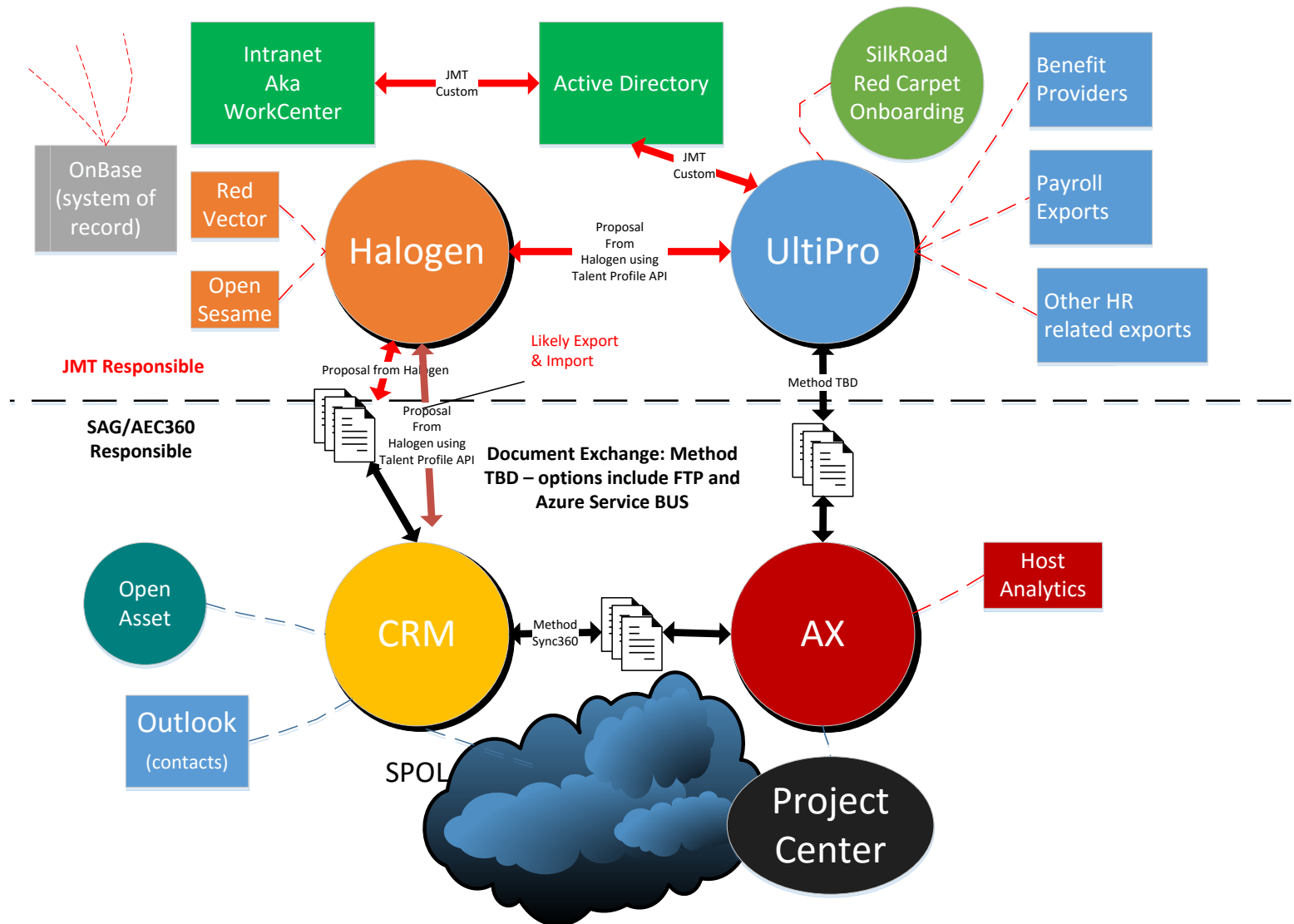
Pipeline

Backlog

Utilization

Etc.

Integrations



Engineering Applications



No Limits®

AutoCAD

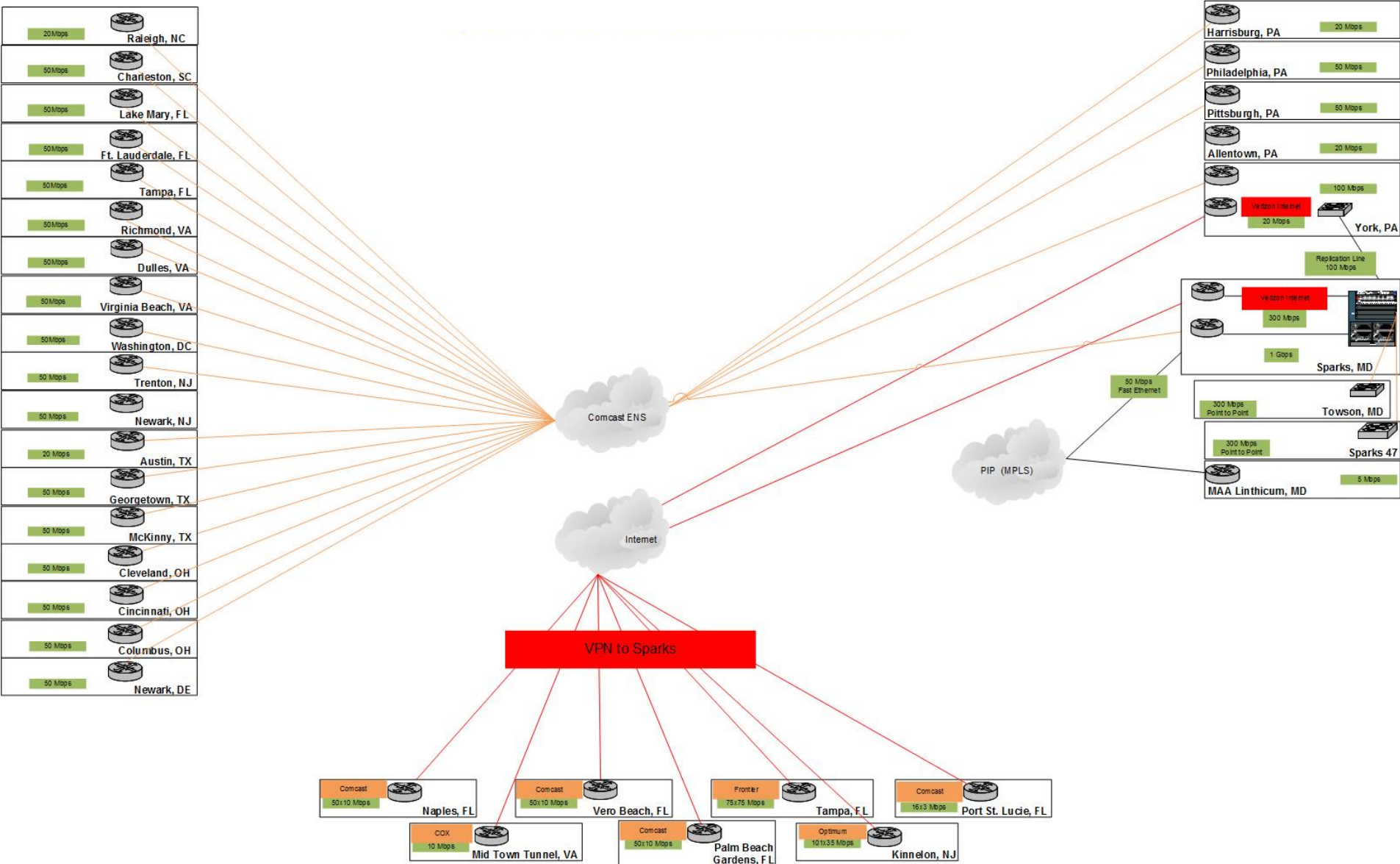
Software Development Applications

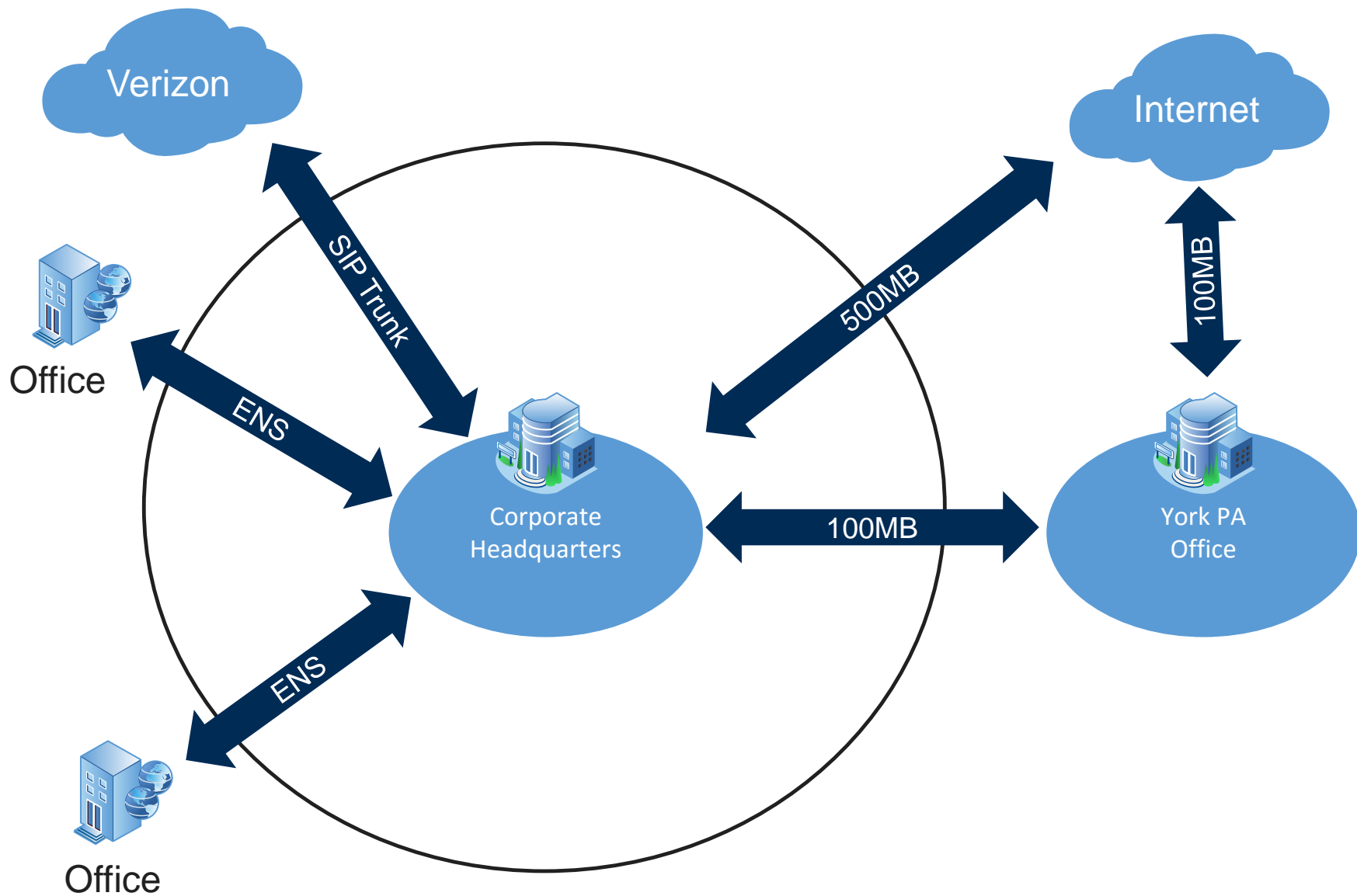
- Microsoft
- Oracle

Infrastructure - Network

- Comcast Enterprise Fiber for Private WAN connection
 - ENS (Ethernet Network Service; Any to Any)
- Cisco 4331 routers and 3650 switches
- Check Point Firewall
- Zscaler Internet Proxy
- Mimecast E-Mail filtering
- Internet connectivity
 - 500MB Internet Sparks
 - 100MB York (redundant routing)
- Point to Point Connections

JMT Wide Area Network





Infrastructure - Datacenter

- 2 x Cisco 6506s in VSS configuration network core
 - Soon to be replaced with 2 x Nexus 9504s
- Cisco 3750 stack top of rack switches
 - Soon to be replaced with Nexus 9372s
- Cisco UCS servers
 - VMware ESXi 6.0
- HP C7000
 - VMware Horizon View
 - DMZ Servers
 - Domain Controllers
- Legacy Dell PowerEdge servers

Infrastructure - Data Storage

- NetApp Storage (140TB)
 - Replicated to secondary site
- Nasuni file server (41TB)
 - Cloud Storage
- Backup AWS (5TB)
- Office 365 (3TB)
- Some local server storage

Infrastructure - Phone and Collaboration

- Cisco Communications Manager 10.5
- Cisco Unity Connection 10.5 (Voicemail)
- Cisco Jabber for IM&P, Softphone, Desk Phone Control
- Cisco WebEx

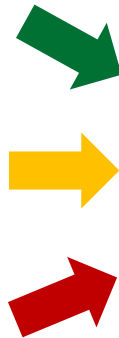
Security

- **Goal:** ISO 27000 Framework
- CheckPoint Firewall
- Azure Active Directory Services
- Zscaler
- Mimecast
- Maas 360
- Symantec
- Office 365
- Data Classification

JMT Computer Security

Input

- E-Mail
- Web Access
- Remote Employee Access
- Employee and Non-Employee access
- Software as a service (SAAS)
- **Storage Devices**

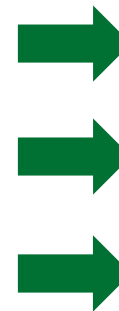


JMT Systems



Output

- E-Mail
- Web Access
- Access to other systems
- Software as a service (SAAS)
- Banks
- **Storage Devices/Services**

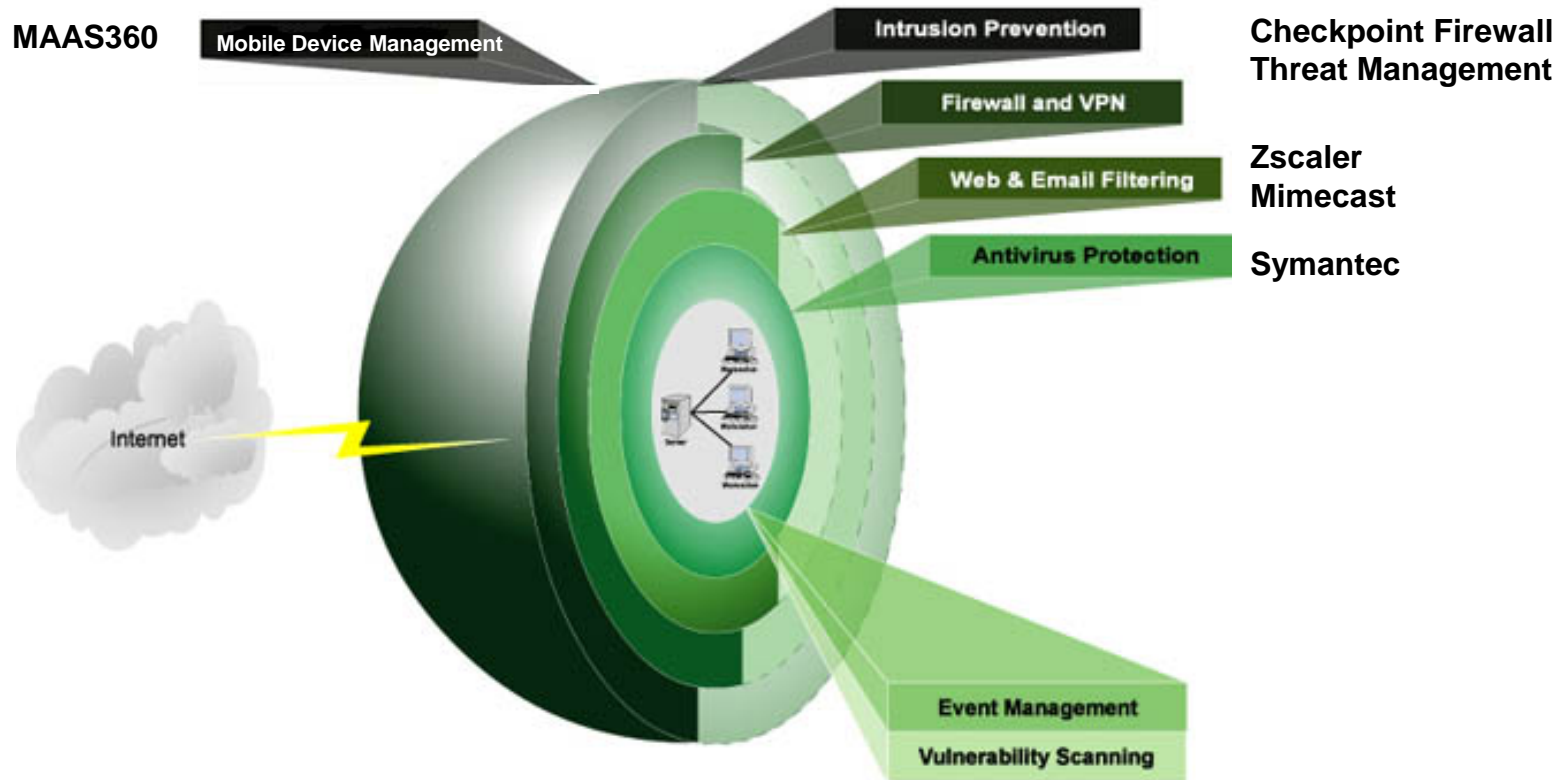


**Access and Information
Entering JMT Systems**

**Internal Permissions to
Services and Data**

**Information Departing JMT
Systems**

JMT Computer Security



Information Security Lifecycle

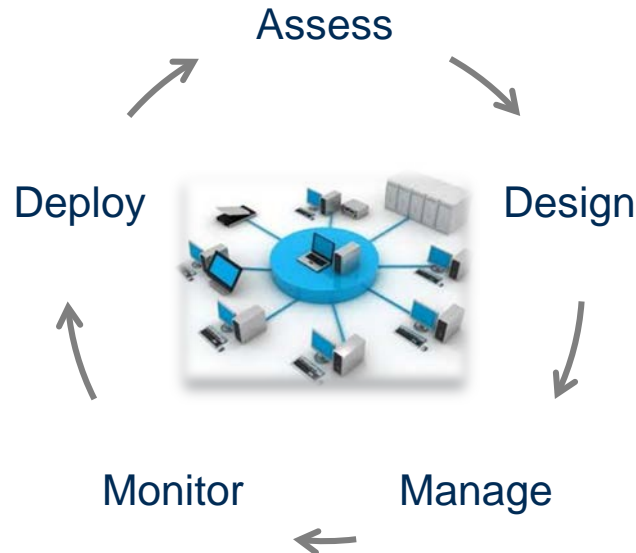


Access Controls

- Active Directory Permissions
- Server Side Permissions
- Limit ability to create/modify permissions
- Perimeter Rules to limit access
- Policy creation...Work Center Security Matrix

System Controls

- Server/Desktop Patches
- Anti-Virus Protection
- Microsoft Group Policy



Design Technology Group

- **Project deliverables development**
- **Collaboration**
 - Amongst JMT Practices
 - Amongst JMT Offices
 - With sub-consultants and team partners
 - With client owner
- **Business Process efficiencies**
 - Standards
 - Execution Plans
 - Start with the end in mind
 - Life Cycle Service
- **Revenue generation**

Strategic Advisory & Innovation

- **Business Strategic Planning**
- **Do more with less**
- **Advisory Boards**

What Keeps Us Awake?



Concerns

- Security
- Business Continuity
- Remaining a competent “trusted advisor”
- Successful delivery
- Adapting to change and shifts
- Staff

Security Concerns

- Business alignment & governance
- Balance Risk & Value
- Protecting the Crown Jewels
 - Can you protect everything?
- Everyone's worst nightmare... Ransomware
- Creating Security Aware Organization

Security Concerns

Creating Security Aware Organization

“Organizations must recast the way people handle information, from the C-suite to summer interns. In such a culture, secure procedures for data become second nature, much like fastening a seat belt or storing matches in a safe place.”

“Every single person can be the infection point for the enterprise, whether it’s from clicking a dubious attachment, plugging in the wrong USB stick or failing to install a security patch on a tablet. So the effort to create a secure enterprise must include everyone. Building a risk-aware culture involves defining the risks and goals, and educating all users by spreading the word. But the important change is cultural. Think of the knee-jerk reaction — the horror — that many experience if they see a parent yammering on their phone while a child runs into the street.”

Business Continuity / DR Concerns

Not just an IT issue

Business Continuity

- Having sufficient measures and plans in place to provide business continuity, at a minimum, to the agreed upon service level commitments.
- Educating fellow leadership to ensure they understand the risks and our vulnerability.
- Business members owning their role and being aligned
- Modify and adjust plans to address and take advantage of cloud solutions
- **Incident Response** readiness

Remaining a competent “trusted advisor”

- Balance Innovation with Stability
- As business strategies change (change is inevitable), are we ready?
- Being prepared to pivot with business
- Business Alignment... One thing to get aligned... another to stay aligned
- Success leads to increased demand for IT solutions
- As younger tech savvy leaders emerge, demands for innovative solutions increase

Successful Delivery

Need I say more?

IT has changed and shifted

- Migration to the cloud
- Agility
- Staff
 - Redundancy
 - Do I have the skills I need?
 - Is the staff evolving

Questions

