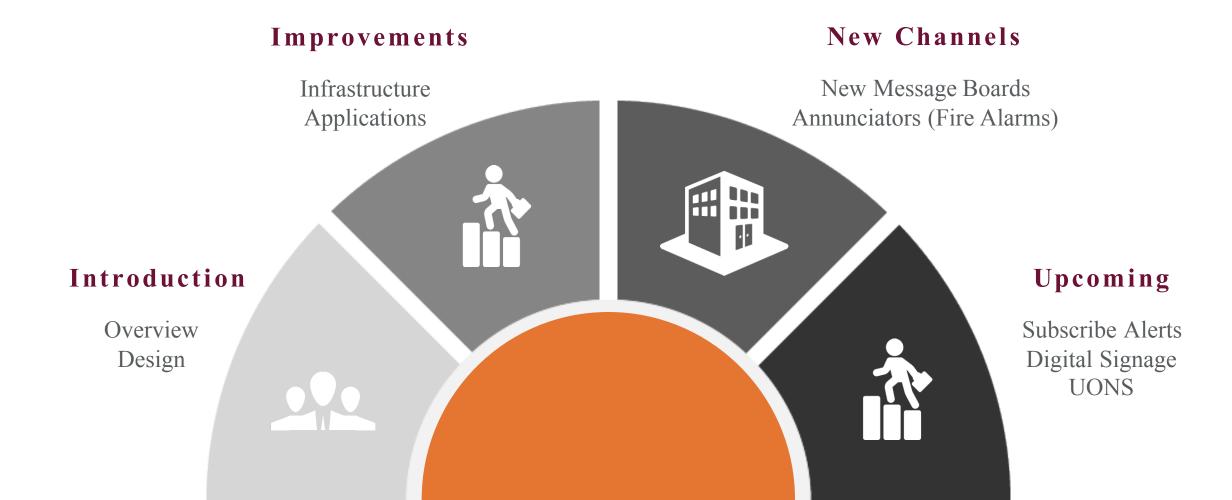
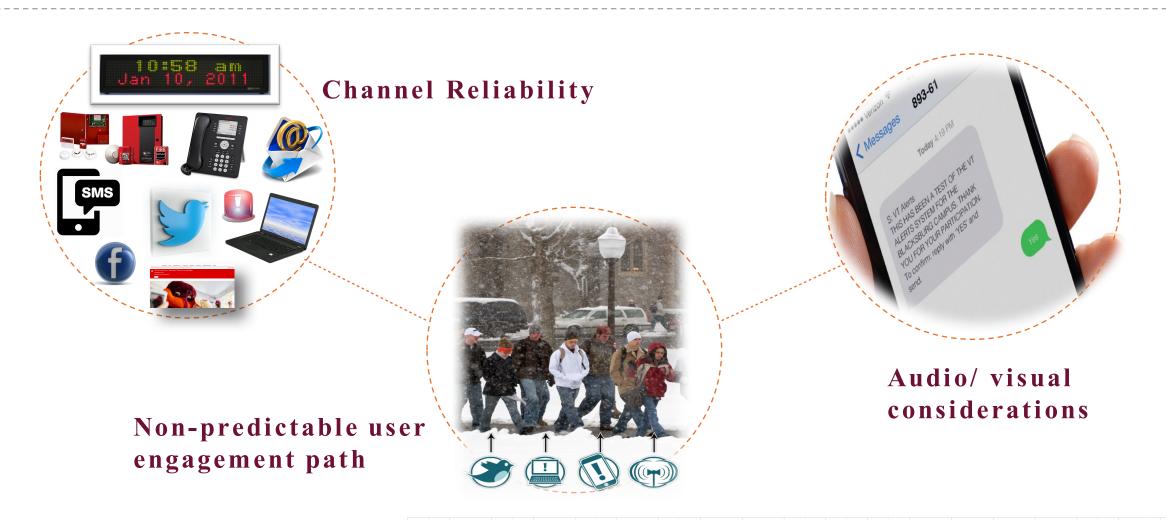




## Agenda

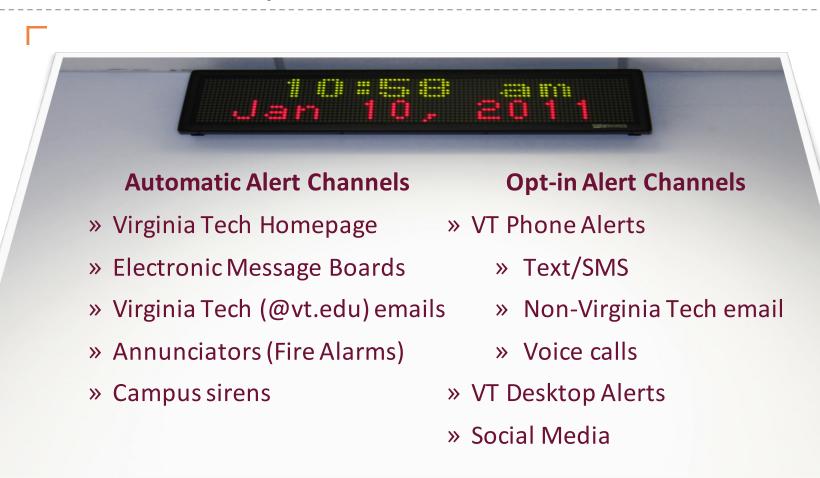


### VT Alerts Overview



»ENS Philosophy: What, where, what to do?

## VT Alerts Delivery Modes



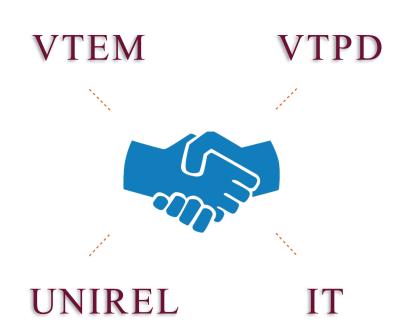
Improvements

### Collaboration

Public Safety
Collaboration Group

Recognition that service has 2 components (equally important):

- ✓ IT recognizes technical needs
- ✓ Public Safety prioritizes items
- > Shared vision/mission:
- > Ensure proper life safety system
- > Explore what is possible together



### VT Alerts Dashboards

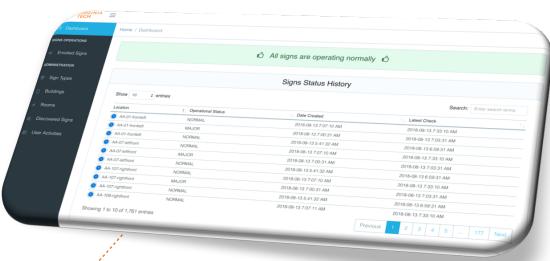


#### Annunciator Live Status

Monitors the status off all installed annunciators

## **Applications Live Status**

Monitors all applications in the VT Alerts Portfolio



### Message Board Live

**Status** Monitors the status off all installed message boards



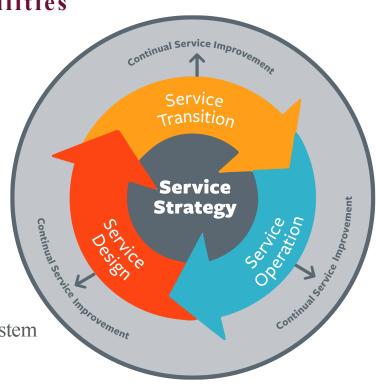
## Sustainable Support

New Monitoring Capabilities

- > Infrastructure
- > Applications
- Devices

### Service Management

- > Long term operation of the system
- > Changing environment



## Improved Redundancy for each channel

- Physical Layer
- > Network Layer
- > Application Layer



### Channel Development

- > Scope
- > Scale



It is important to be proactive instead of reactive in public safety.

New Channels

### Message Board Channel







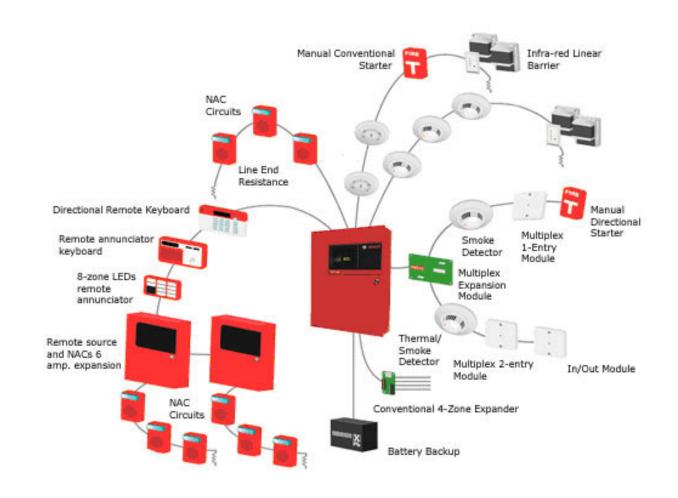
- Next Generation boards
  - Reliability (SSH security)
  - High visibility LED display with anti-glare coating
  - LED light and speaker call attention to the display when a message is playing
  - Direct connect to text messaging providers

### Annunciator Channel

### > Audio Notifications

- Based on CAP\* protocol
- Entire buildings
- Larger range than boards
- Cost effective
  - ➤ 1 building ~ 1 board





### Annunciator Roadmap



#### Infrastructure

- ✓ Server and Network Improvements
- ✓ Redundancy / Back up

### Phase 1

- ✓ Proof of concept
- ✓ Initial 8 Annunciators

### Phase 2

- ✓ + 4 building renovations

- ✓ 23 new Annunciators

Total: 35 Annunciators installed across the university.



# Annunciator Channel Architecture







## Annunciator Channel Architecture







Annunciator CAP\* server



## Annunciator Channel Architecture



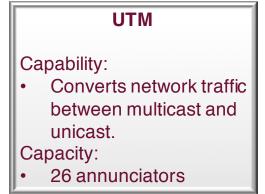








## Annunciator Channel Architecture



### Unicast / Multicast Converter















## Annunciator Channel Architecture



#### **UTM**

### Capability:

 Converts network traffic between multicast and unicast.

#### Capacity:

• 26 annunciators

Unicast / Multicast Converter



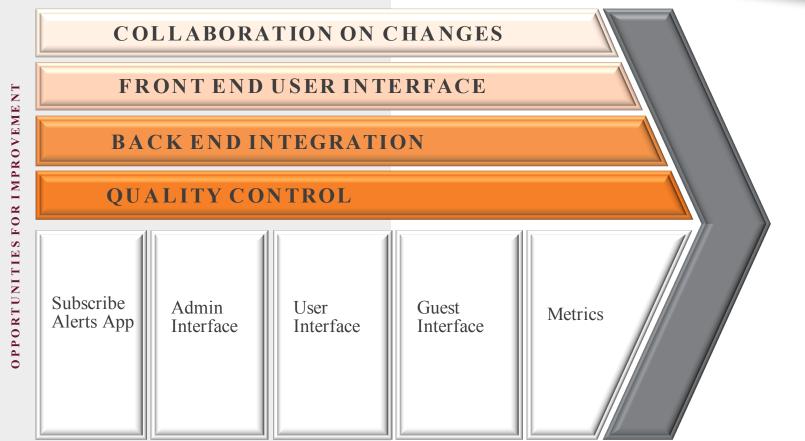




Upcoming

### Subscribe Alerts







Release

## Subscribe Alerts 2019 Release

\* pre-production images

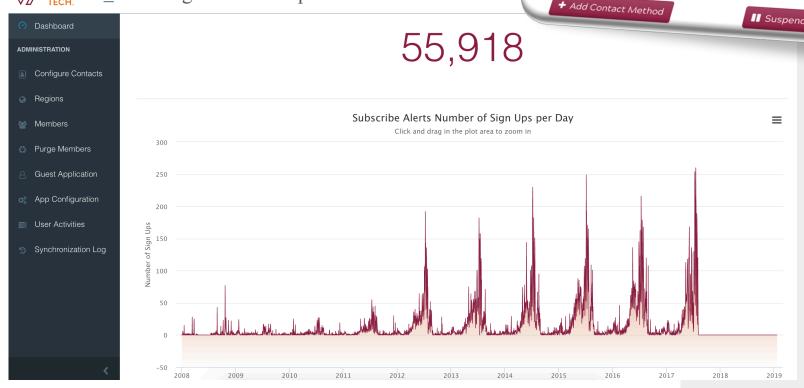
Management Interface

E Configuration & Operation

ou are logged in as lgantner # Home P Regions 1 Help P FAQs Log out You are subscribed to VT Alerts. Here are your contact preferences. You may change your region selections or contact methods at any time. Please remember that you are limited to a maximum of nine contact methods. Region(s): Blacksburg (Change) Contact Method Contact Information Order Text Message (SMS) Action 987-654-3210 Mobile Phone ☑ Edit 🛍 Delete 123-123-1234 + Add Contact Method **Ⅲ** Suspend alerts ★ Unsubscribe from VT Alerts

Guest Alerts Application

User Self Service & Administration



## Digital Signage

### Collaboration

- ➤ Locate and validate signage
  - ➤ Which signs should be included?
- ➤ Enable signs to receive VT Alerts
- > Social Media (Twitter, Facebook, etc.)
- Desktop Alerts
- ➤ New Application / Channel





## Email Channel



### UONS

University Online Notification System

### Use Cases

- > VT Alerts
- Daily Emails
- > Timely Notifications













Questions?

## Thank You!

#### Questions & Answers

- »Conference Session
- »Date/Time March 1st 2-3pm
- »Zoom Link: <a href="https://virginiatech.zoom.us/j/296495345">https://virginiatech.zoom.us/j/296495345</a>

### Takeaway Messages

- »It is important to be proactive instead of reactive.
- »Watch for new Message Boards.
- »Listen for new Annunciators.
- »Subscribe to VT Alerts.