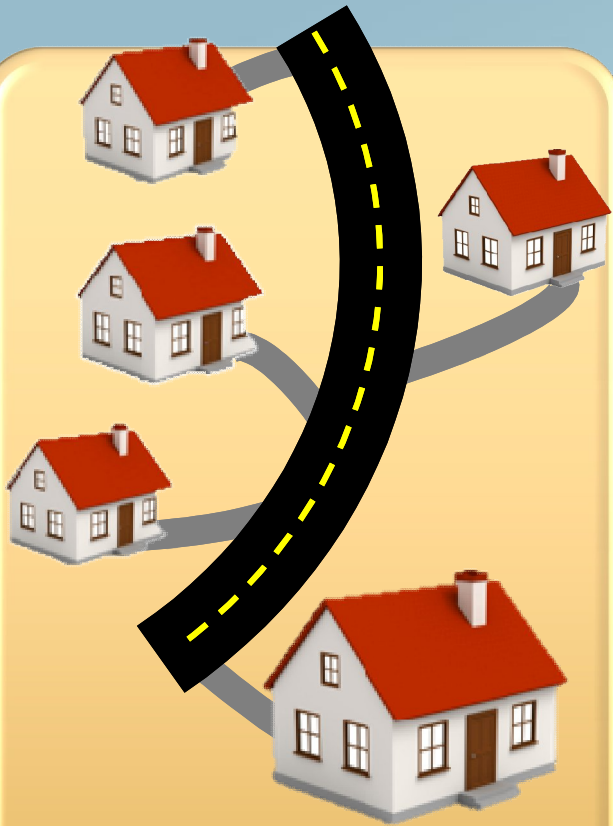




Power Tagging

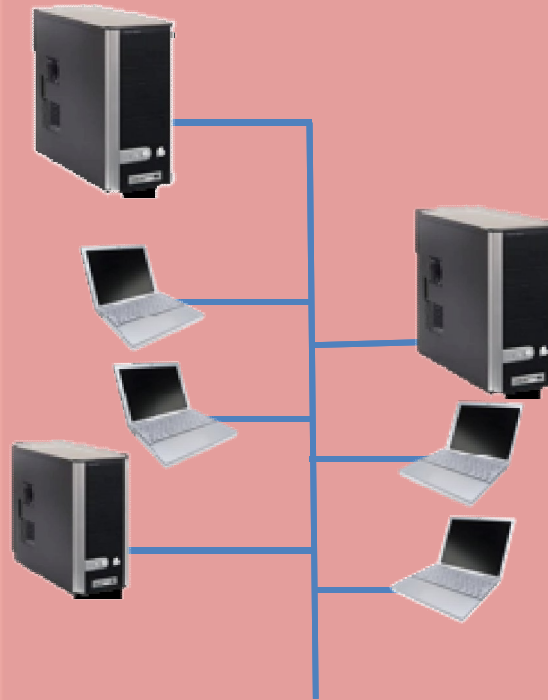
Andy Abendshein
Software Architect
www.powertagging.com

Value of Addressing



Physical Address

- Street No.
- Zip Code
- City
- State
- Longitude
- Latitude



IP Network Address

- IP Address
- Server
- Subnet
- Router
- Switch



Grid Address

- Phase
- Transformer
- Lateral
- Switch
- Feeder
- Substation

Utility Offerings



72°
Current
DSM

Renewables



Voltage
Optimization



Grid Location
Awareness



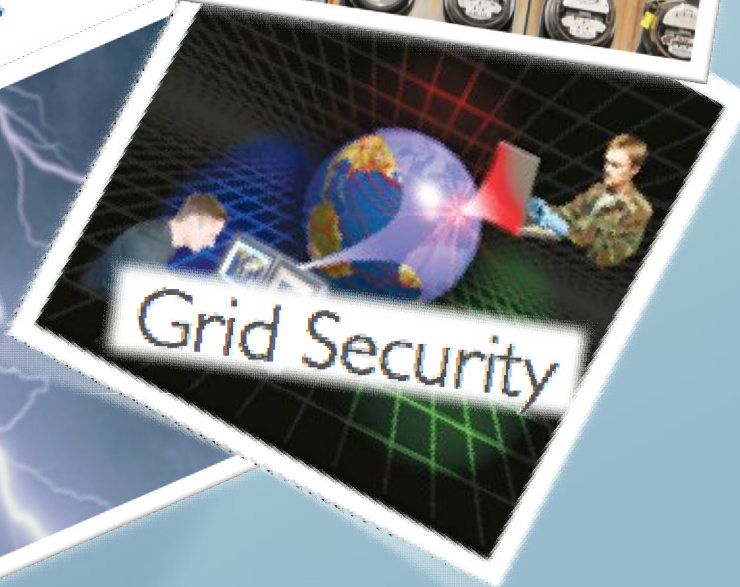
Metering



Plug In
Vehicles



Fault Isolation



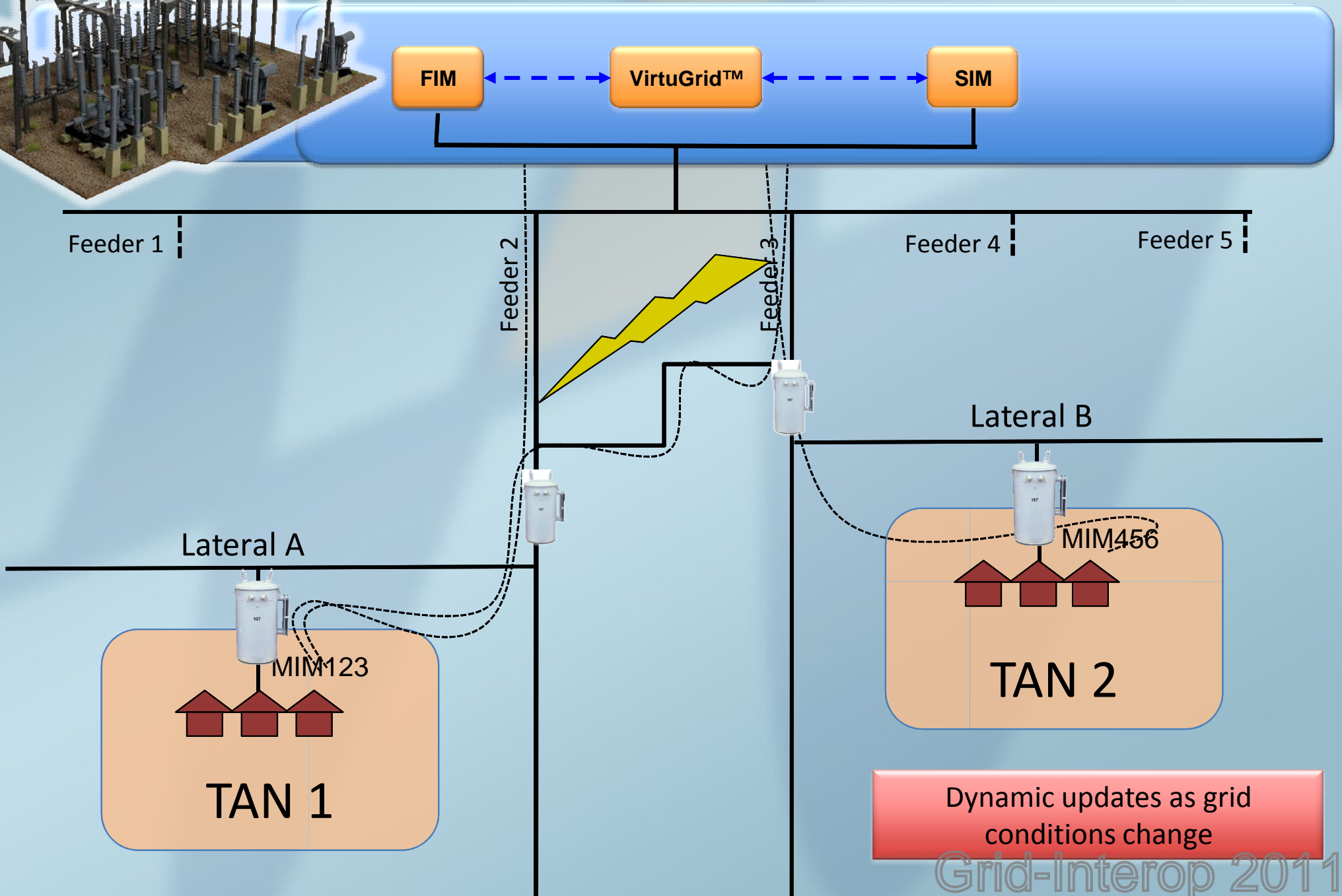
Grid Security



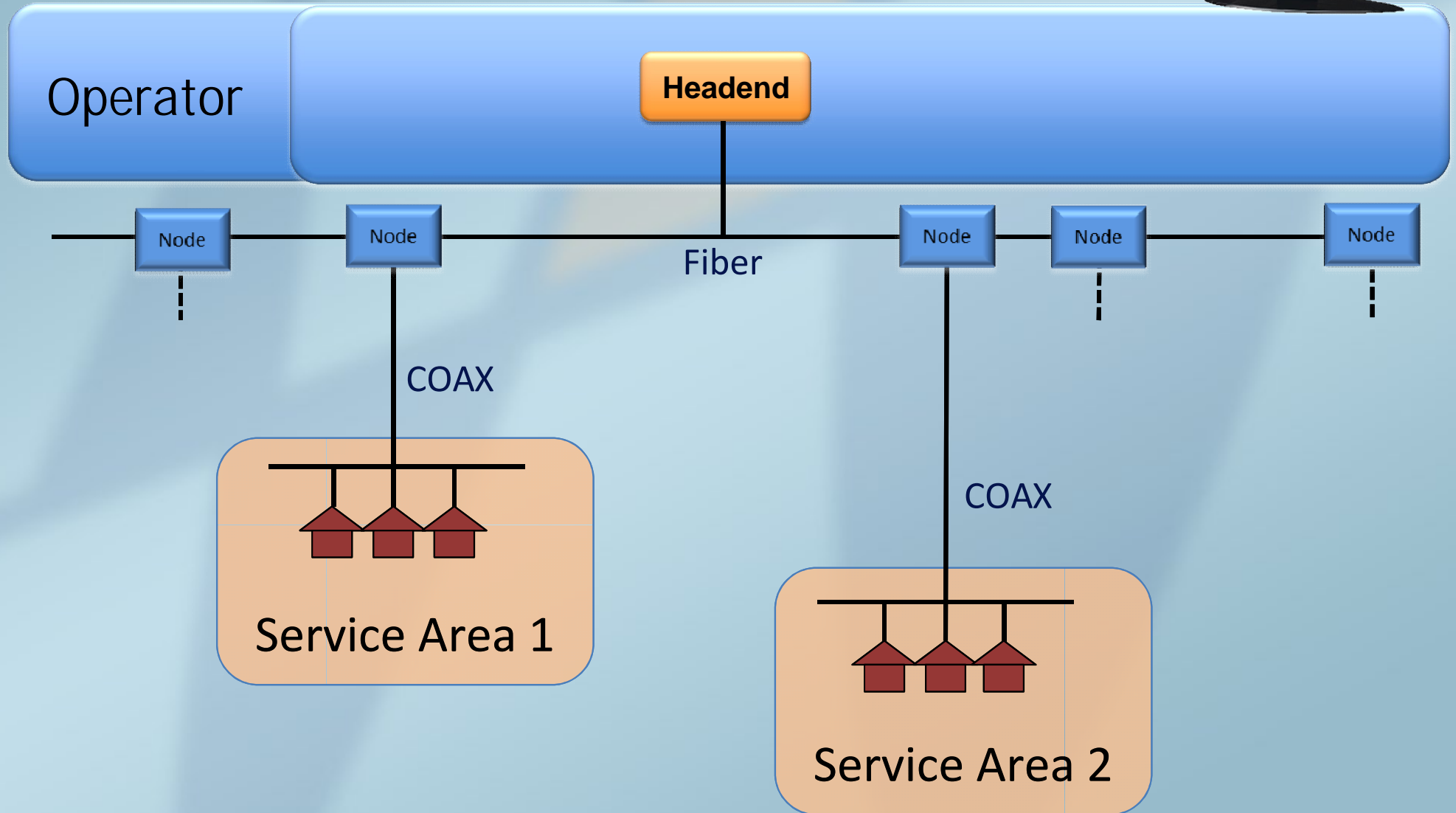
Power
Tagging

The grid needs to enhance all applications for smooth interoperability, easier management and faster adoption
© Grid Interop 2014

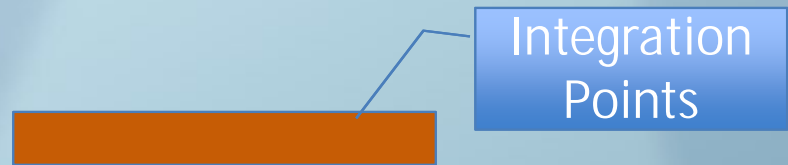
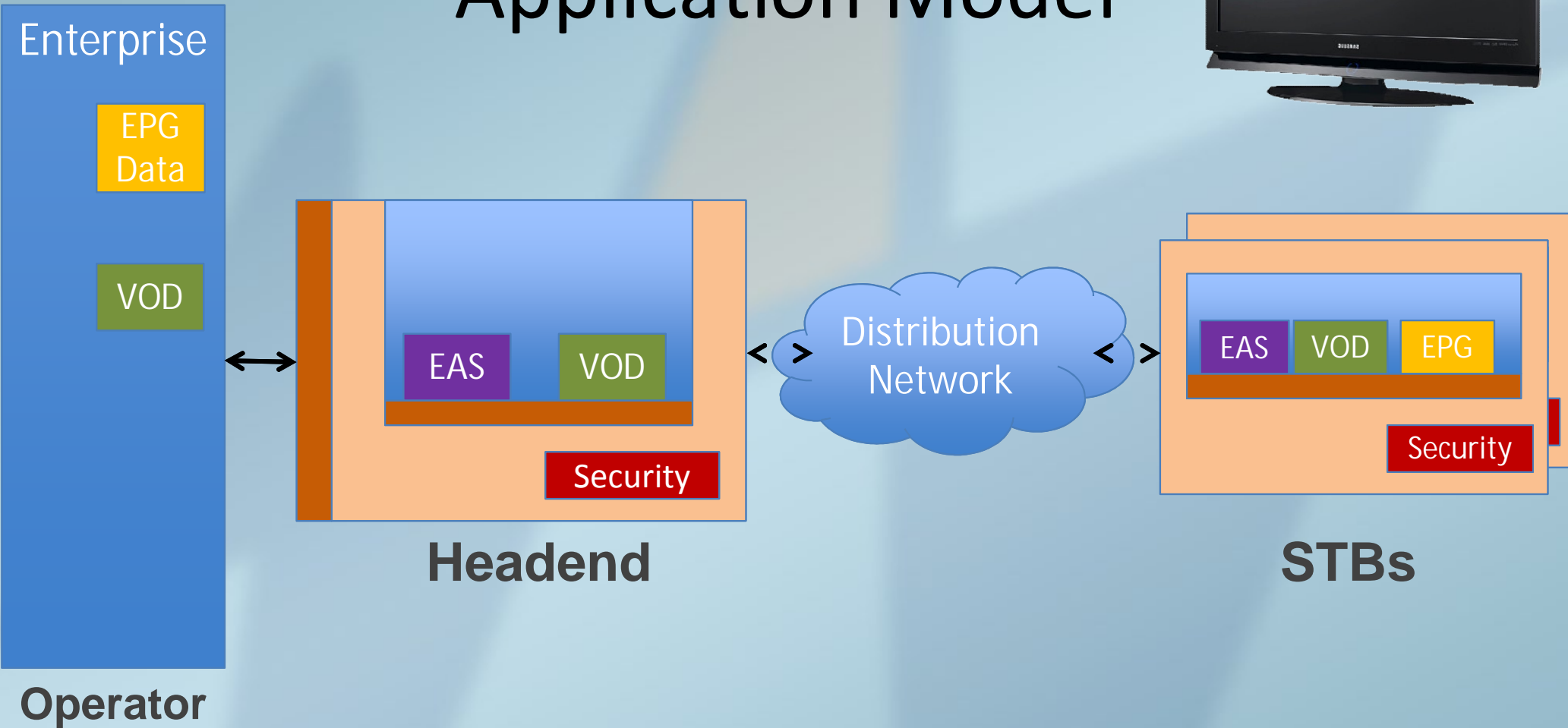
Distribution Grid Grid Location Awareness



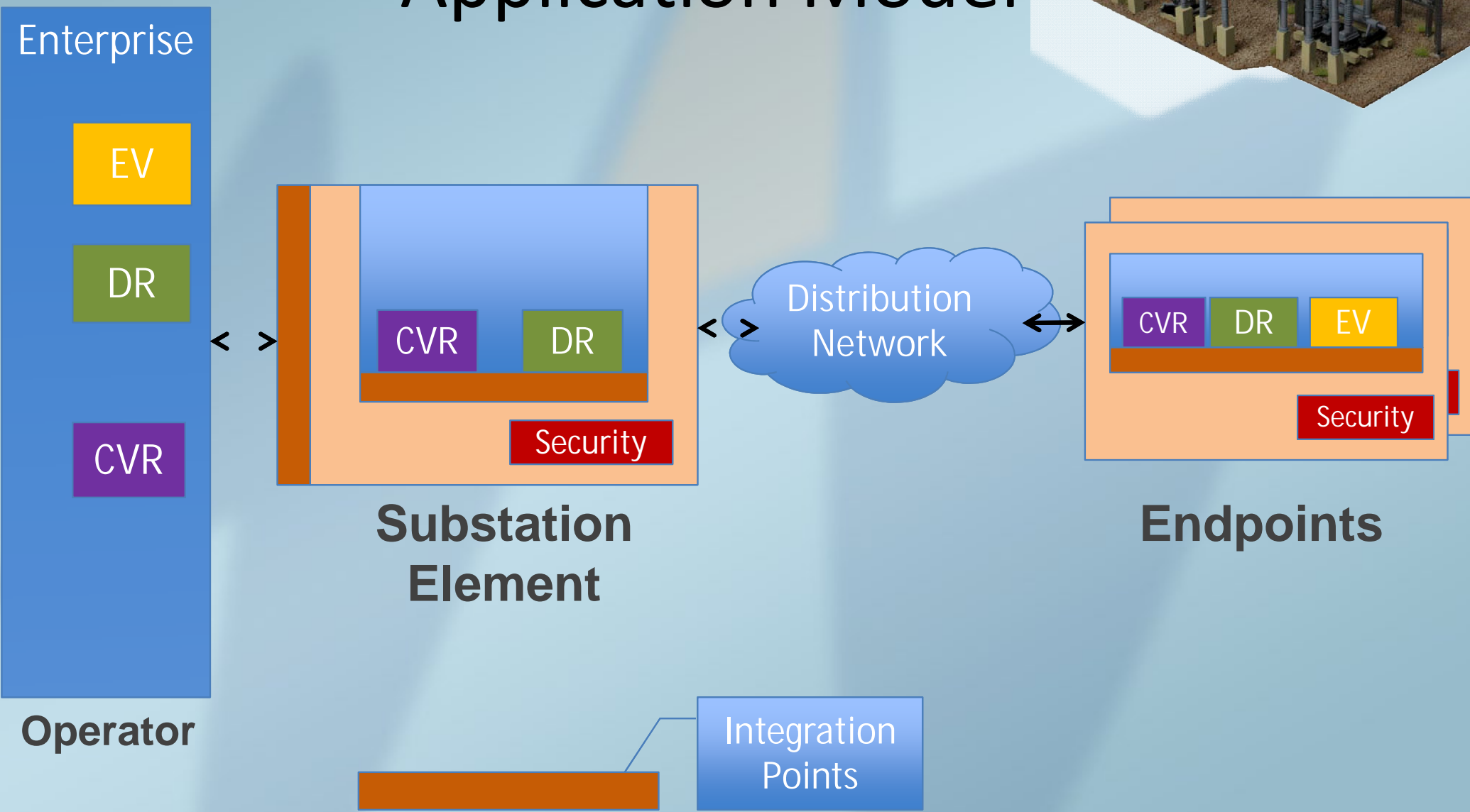
Cable TV Distribution Network



Cable TV Application Model



Distribution Grid Application Model



Standards Based Integration

- IPV6
- System Management
- Comms Prioritization
- Enterprise Integration APIs

- Secure Comms
- Real Time
- Sensing
- Grid Location Awareness™

CVR

DA

EVs

DR

API_n

VirtuGrid Enterprise

Substation

Distribution Grid

Substation 1

Substation 2

Substation n

CVR Value Proposition

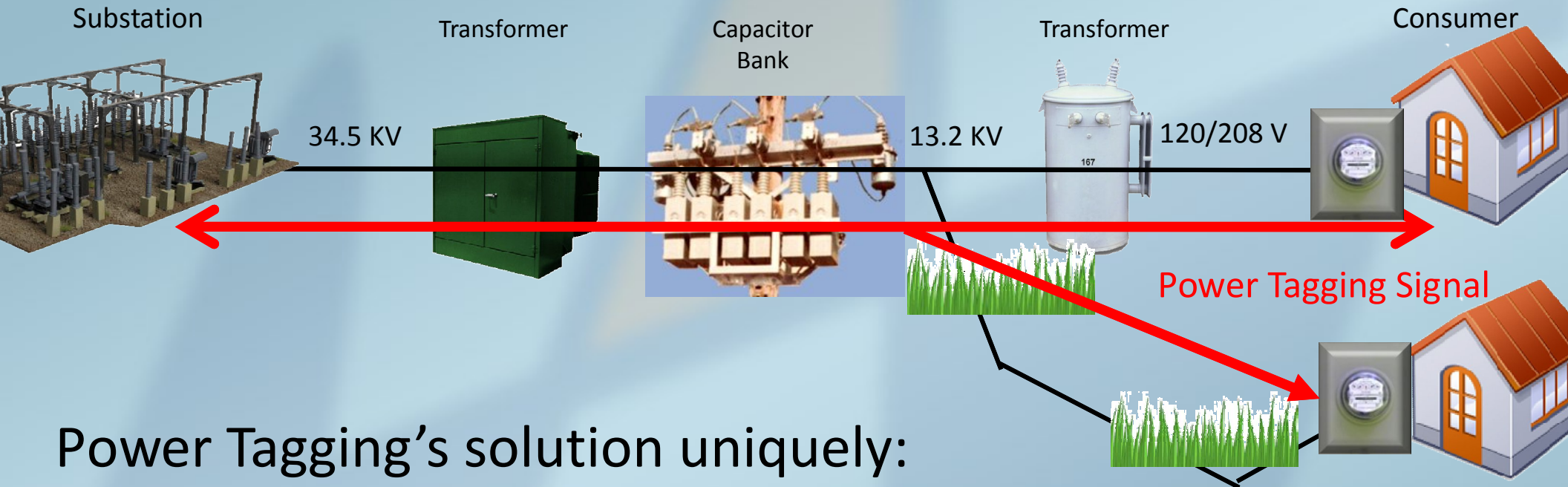


6% of All
Energy Delivered

The image features an aerial view of a city with a heatmap overlay. The heatmap shows areas of high energy density in red and yellow, primarily concentrated in the central and right-hand portions of the city. A large blue callout box with a white border is positioned in the center, containing the text '6% of All Energy Delivered'. Several icons are scattered around the city: a red shopping cart icon in the lower-left, a yellow and black industrial building icon in the lower-left, a blue and white hospital building icon in the upper-left, a grey utility transformer icon in the upper-center, a grey utility transformer icon in the lower-center, and a grey utility transformer icon in the lower-right. The background is a detailed aerial photograph of a city street grid, buildings, and green spaces.

Network System Operation

Navigating the grid



Power Tagging's solution uniquely:

- Reliably Communicates on Wire & Pierces Transformers, Cap Banks... Without Bypasses
- Grid Location Aware
- Multiple applications with one investment
- Utilize existing capital infrastructure

Concept Recognition

Selected,
Game Changing Intelligent Energy Technology



Winner,
"Technology Product of the Year"

Winner,
"Top Utility Technology"



Top 10,
Selected by GigaOM as a Top Big Idea

Top 50,
#45 Among over 2,500 Start-Up Companies



2-Time nominee: Smart Grid Company to Watch

Grid-Interop 2011



Andy Abendshein
aabendshein@powertagging.com
303-385-1716