

2017 North American IPv6 Summit April 25-26, 2017

LinkedIn Headquarters
Sunnyvale, CA

My Journey



















A little history from a CIO perspective...



We now have a growing problem, and while it looks familiar, the solution is going to require intensive rethinking of the way we design and implement apps and infrastructure.



Tony's Rule(s)

For every \$1.00 spent on apps and infrastructure, annual operating costs and maintenance expense will be in the range of 20-30%

Further, because the aggregated price/performance of technology doubles roughly every five years, systems and infrastructure that are more than 10 years old, have a net negative value compared to the upgrade or replacement alternative.

Lesson Learned: Get your organization on a continuous upgrade cycle – "sweating the asset" is unlikely to pay off compared to other alternatives.

The Cybersecurity Challenge



Tony's Rule(s)

Trying to design, develop, implement and support modern security concepts and practices to protect certain legacy systems is just like thinking that with enough bubble wrap and duct tape we can convert a '65 Ford Mustang into a vehicle as comfortable and safe as a contemporary vehicle. Effort and cost aside, it won't be pretty!

Lesson learned: Security by design wins out over security slapped on afterwards.

For Large Enterprise and Government

IoT is really the Internet of Everything....

More devices

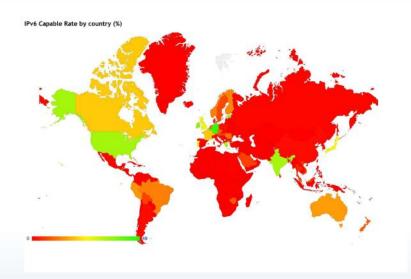
More users

More traffic



More IP addresses
More transparency/accountability
More manageability
Better performance

And the foundation is starting to look better!



Multiple Components to the Future Roadmap for Large Enterprise (including Government)

Shared Microservices and Platforms

Hybrid Cloud

Legacy System API's

IPV6

Network micro segmentation

Cloud Services

New IT governance paradigm needed
Remphasis on architecture & data
Both DevOps and traditional model
Business and tech skill set paramount
TBM as a standard practice
CXO level engagement

The Federal Government can lead the way

Modernization of Government Act

Work done so far

Work Needed

Creates new funding mechanism Encourages shared platforms Favors modern architecture/tools

OMB/Fed CIO support Comprehensive across all initiatives Fix FAR language and train people

