

Layered Security

It's built-in, not bolt-on.

Art King
15 May 2014
IEEE CQR

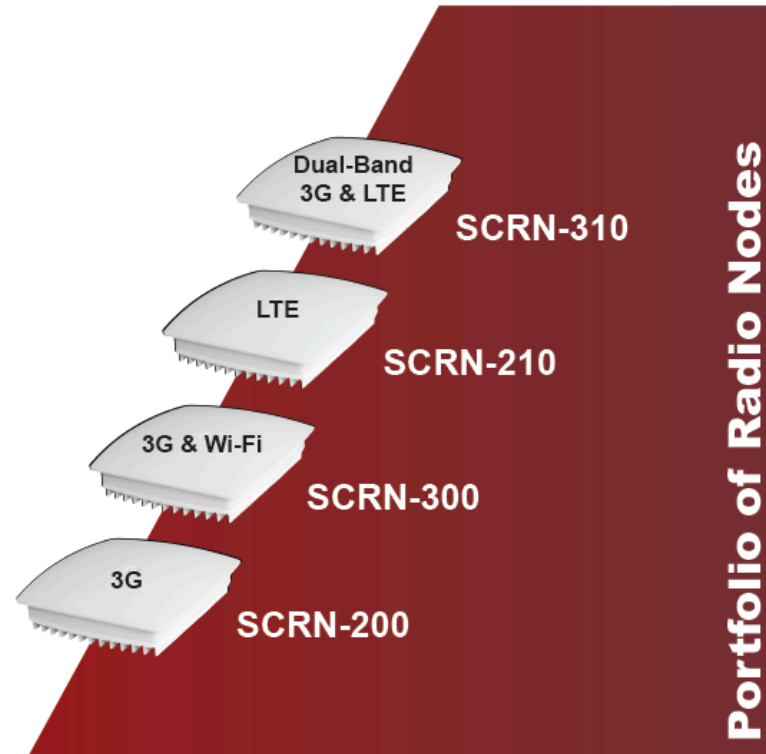
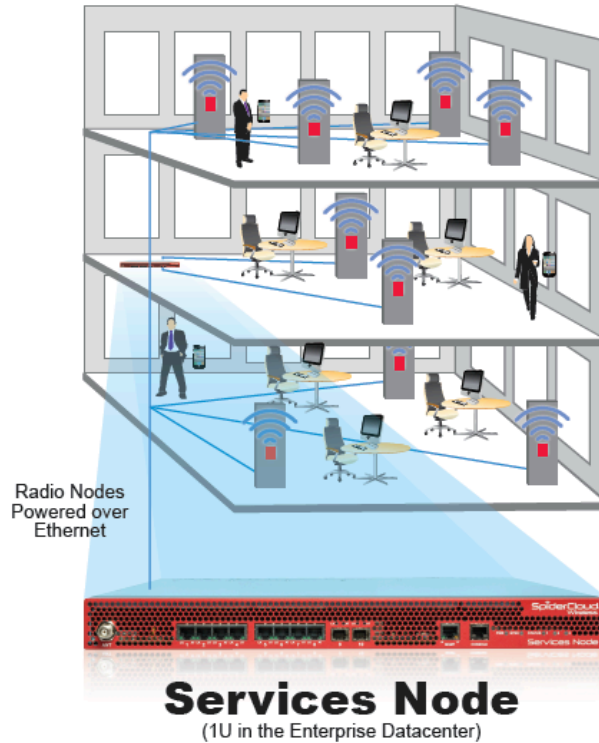
Agenda

- SpiderCloud E-RAN architecture
- Practical enterprise installation
- Creating a secured architecture for untrusted environments

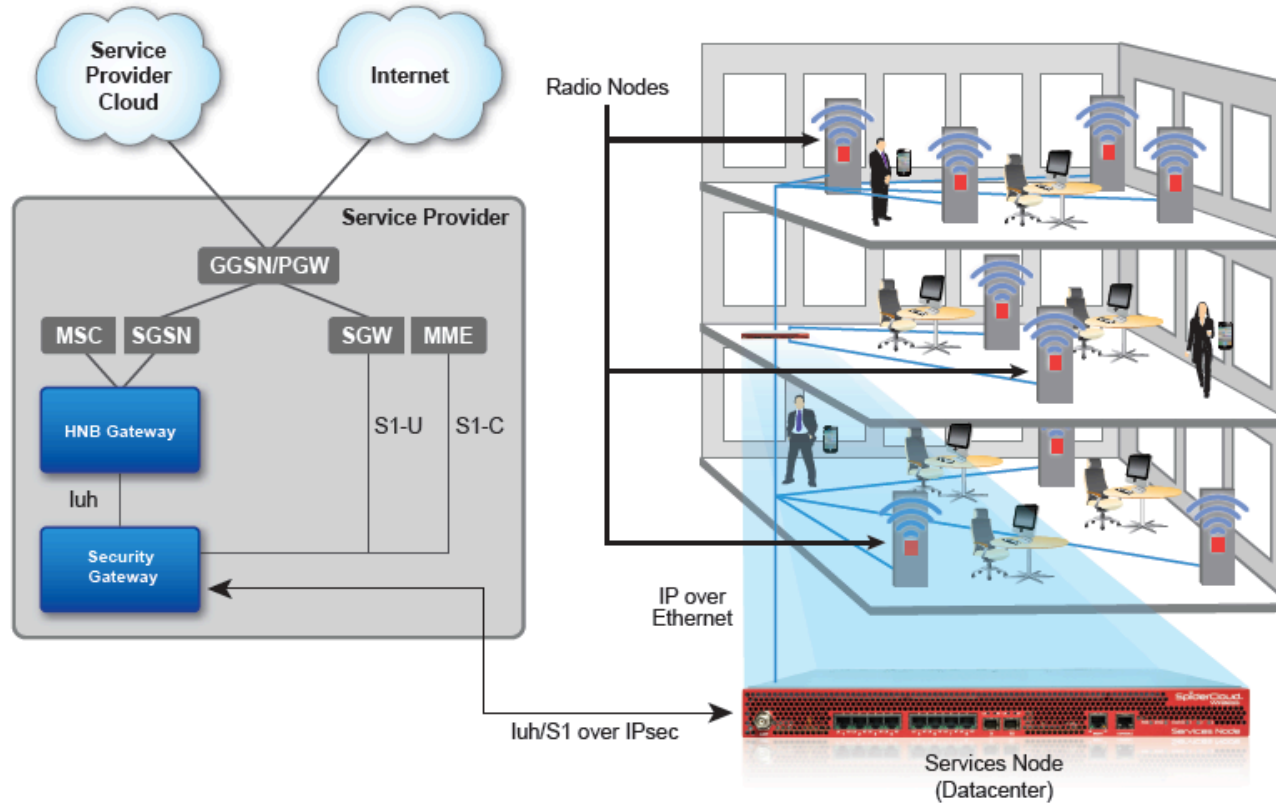


Scalable Small Cell System

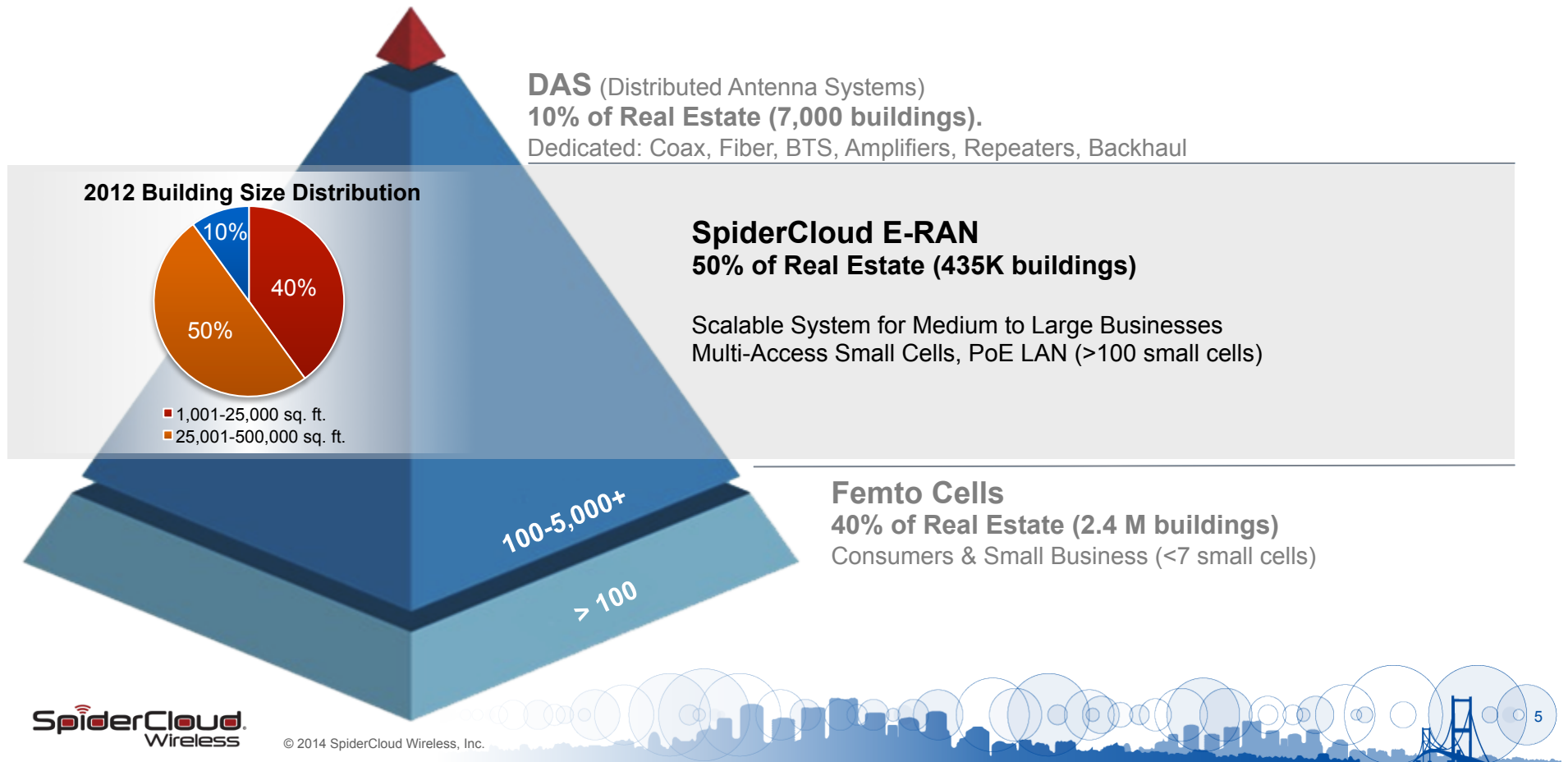
Deployed & Managed By Mobile Operators



Scalable Small Cell System & Services

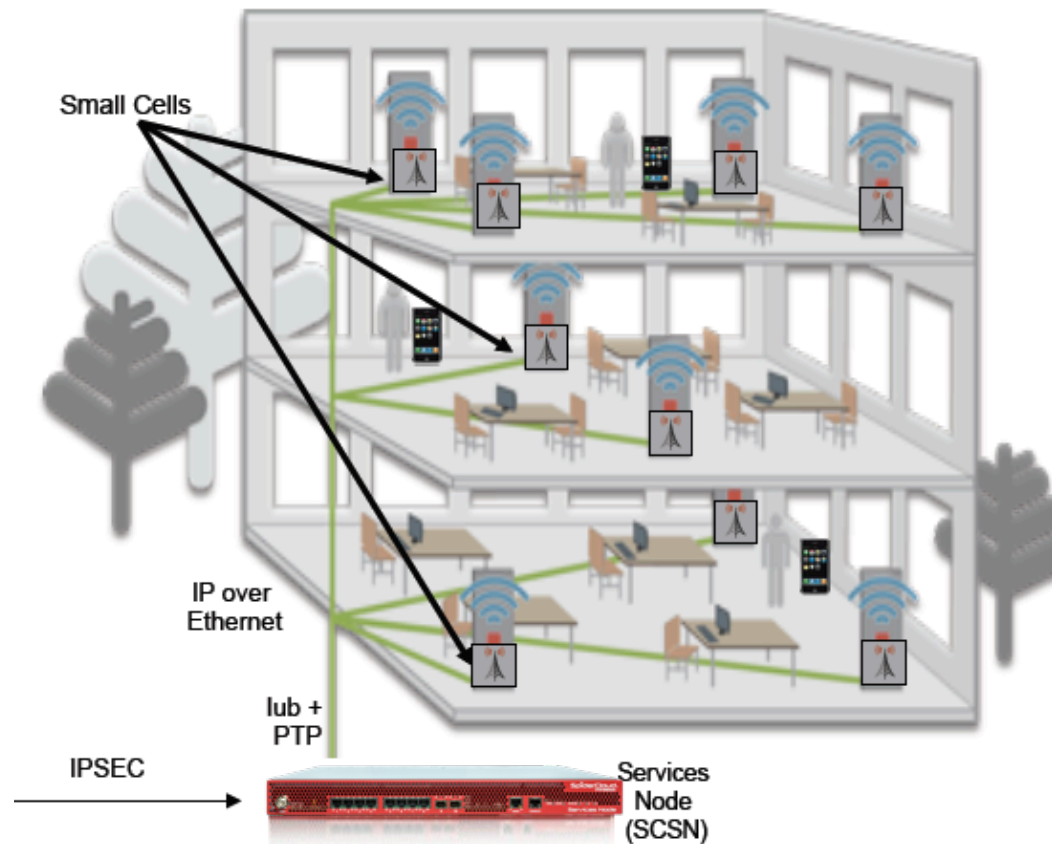


Sweet Spot: Medium & Large Enterprise



Ethernet

- **Enterprise VLAN**
- **Standards Based**
 - Cat 5 Cable
 - Ethernet
 - IP/IPSec
- **Wi-Fi Style**
 - Installation
 - Skill Set Needs

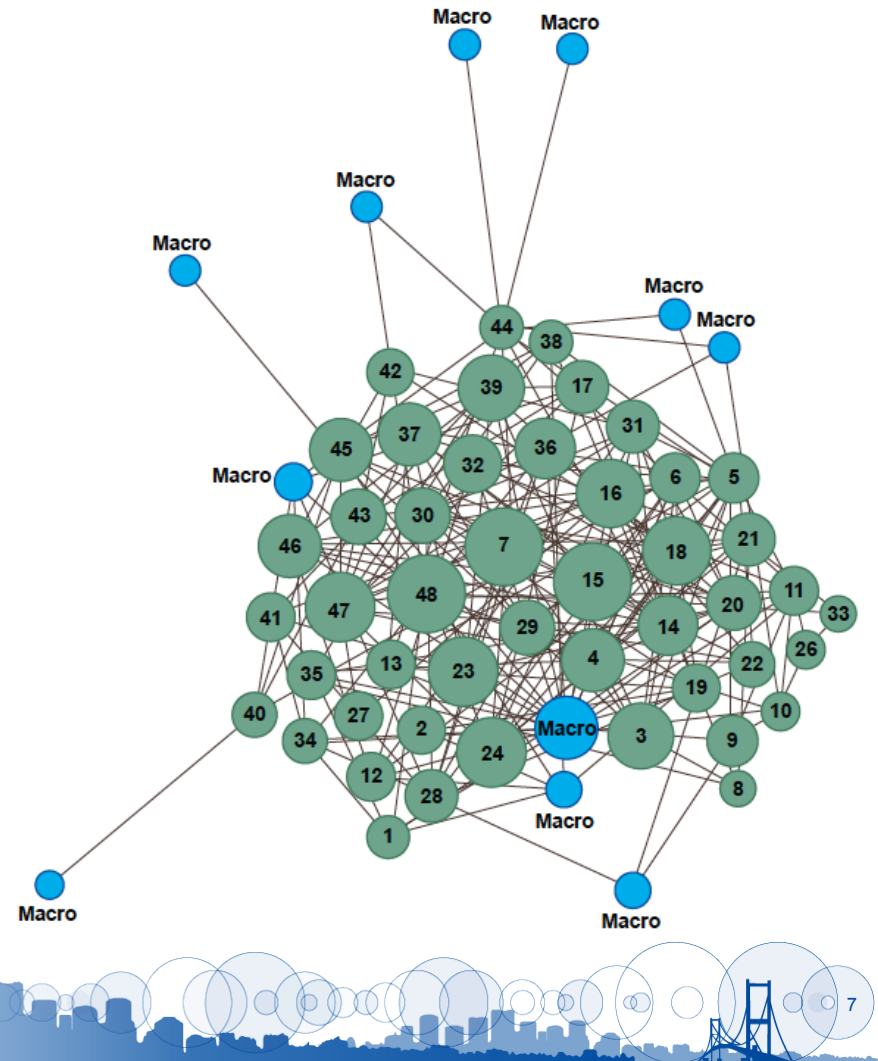


SON is Important

Visualization Map

SpiderCloud's SON for
Scalable Small Cell Systems

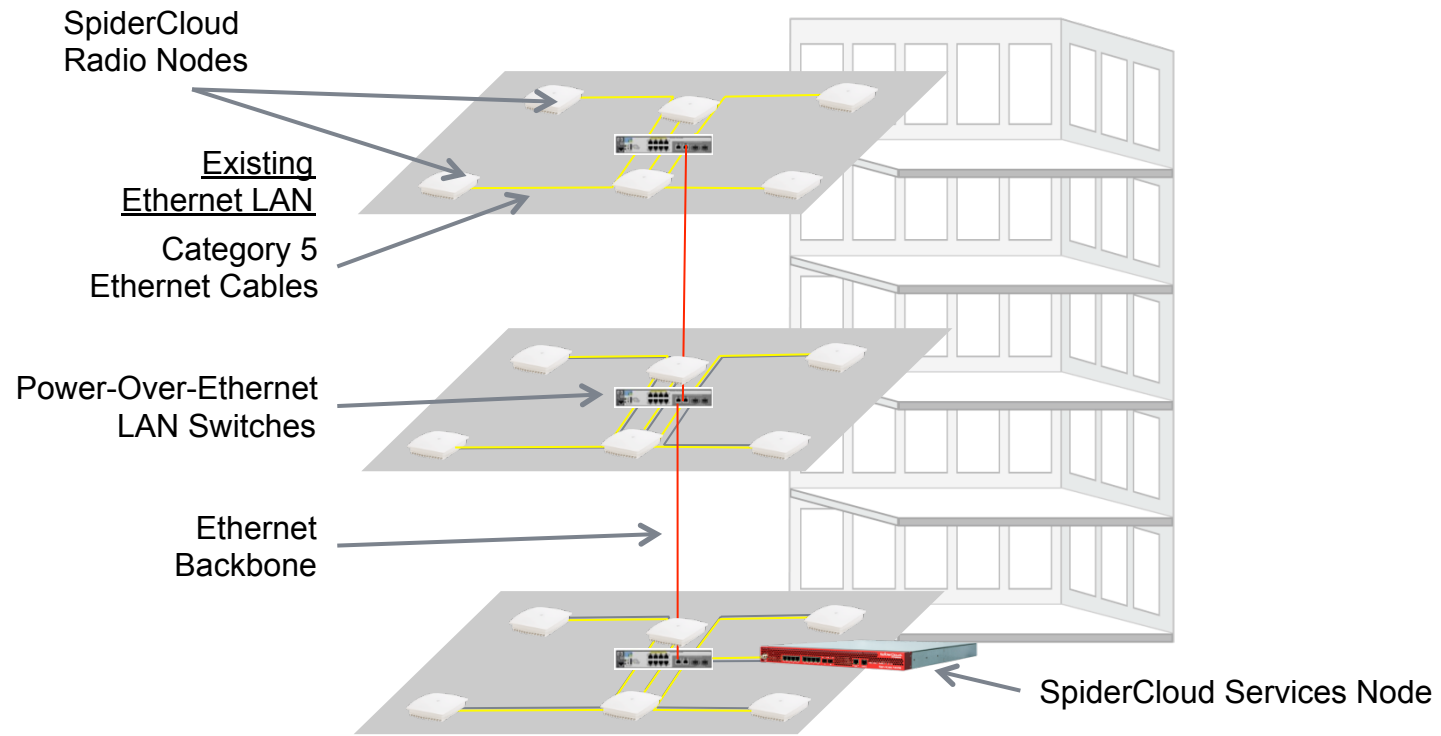
Empty Cells: Macro Network
Numbered Cells: SpiderCloud Radio Nodes (SCRN)
*The larger the cell size, reflects greater connectivity
between the SCRNs and its peers.*



Practical Enterprise Installation

- Security Considerations
 - Services Node location
- In-Building Transport Selection
 - What's available?
 - Enterprise IT security thinking
 - Lessons from our implementations

75% of E-RAN Deployments Use Existing LAN



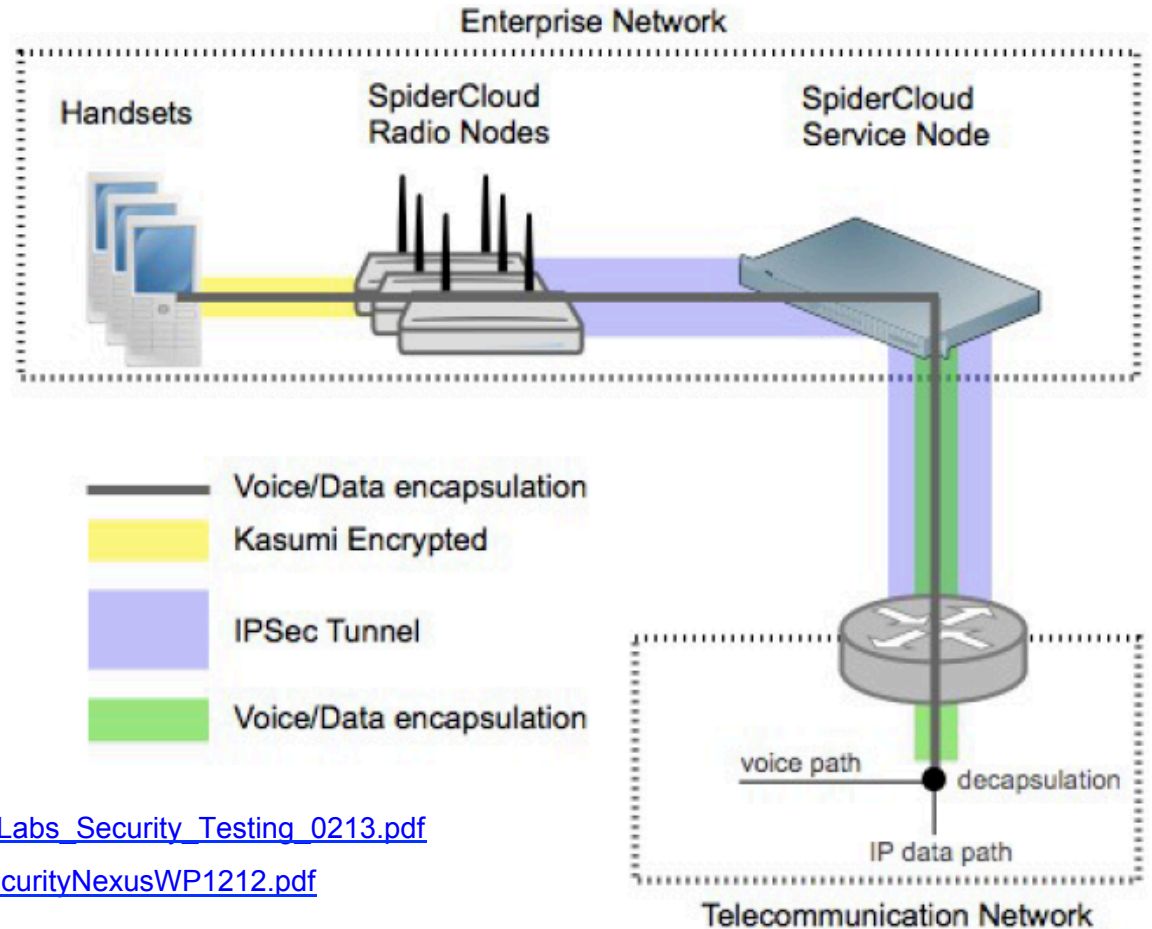
A SECURED ARCHITECTURE FOR UNTRUSTED ENVIRONMENTS



Security Layering

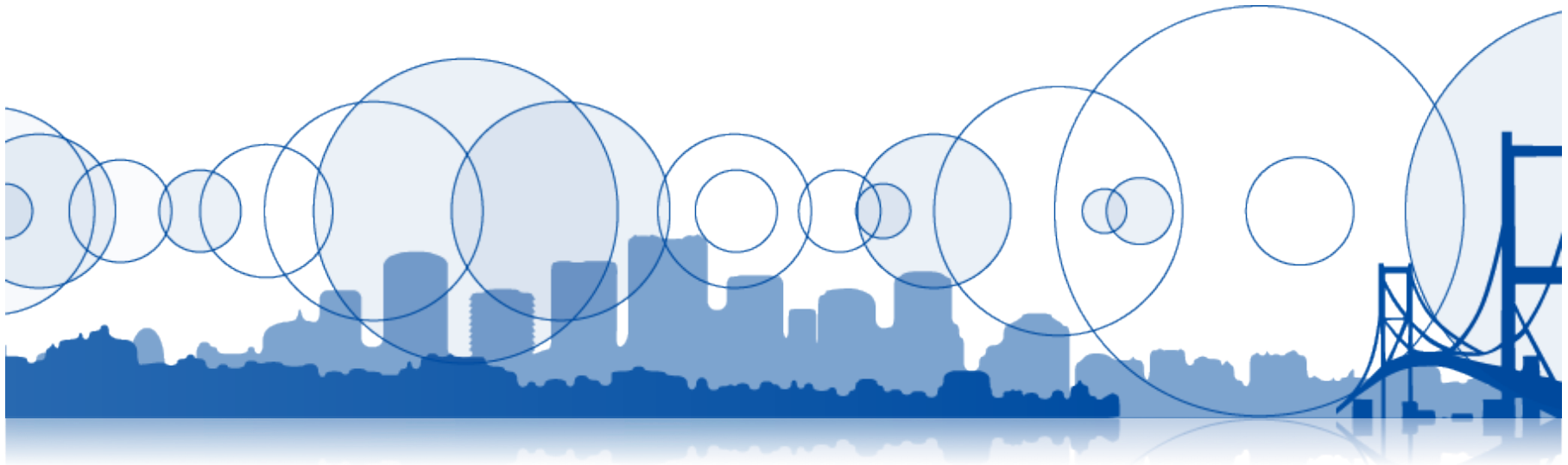
- Hardware
- Software
- Transport Paths
- References

- http://spidercloud.com/assets/pdfs/RecurityLabs_Security_Testing_0213.pdf
- <http://spidercloud.com/assets/pdfs/VLANSecurityNexusWP1212.pdf>



SpiderCloud Wireless

Scalable Small Cell Systems for Enterprise & Venue
Coverage, Capacity & Managed Services



@SpiderCloud_Inc

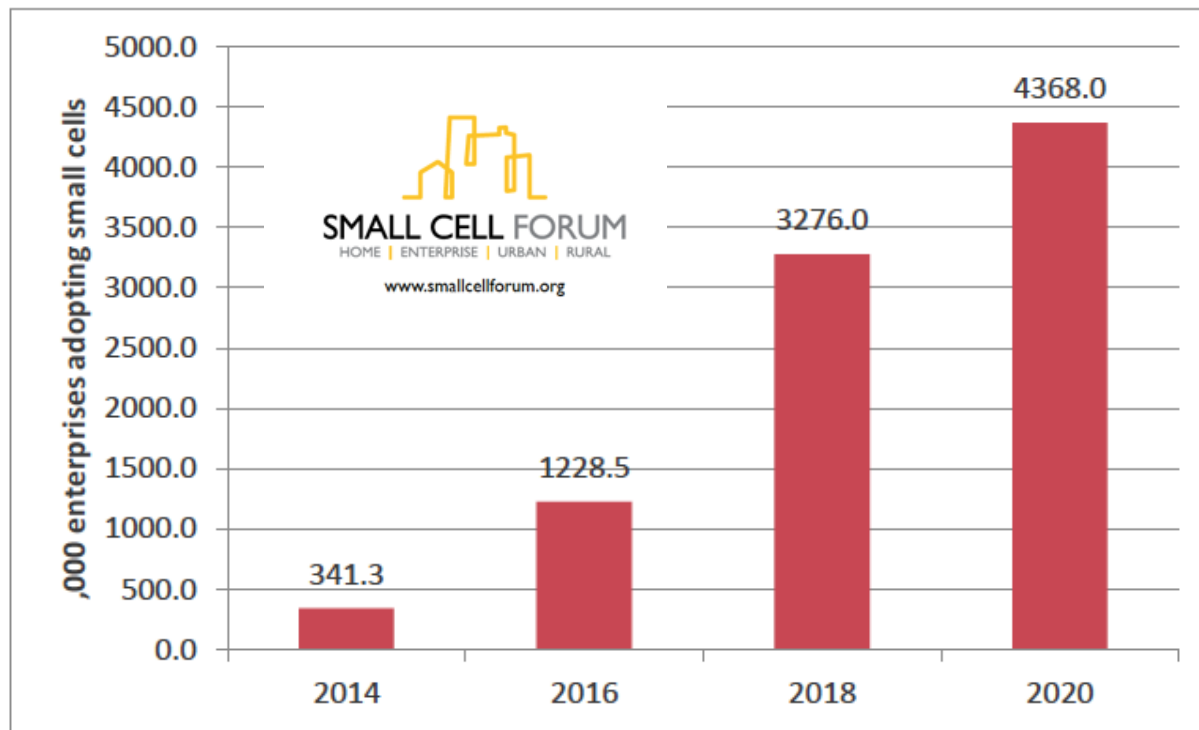
www.spidercloud.com

SpiderCloud
Wireless

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Enterprises Adopting Small Cells 2014-20



Source: Global Forecast: Small Cell Forum/Real Wireless, December 2013

Scalable Small Cell Systems

Made For Mobile Operators to Address Enterprises & Venues
with Coverage, Capacity & Managed Services

- Founded 2007/: VC funded and based in Silicon Valley
- Management team with proven RAN & enterprise success
- Customers (public): Vodafone UK & Netherlands
- Over two years of Commercial Deployment
- Why SpiderCloud? Scale, Speed, Cost and Simplicity
 - Enable great mobile experience inside
 - Time to revenue
 - Reduction in P&L impact



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