

# TITAN: Radically Simplifying Signaling & Control

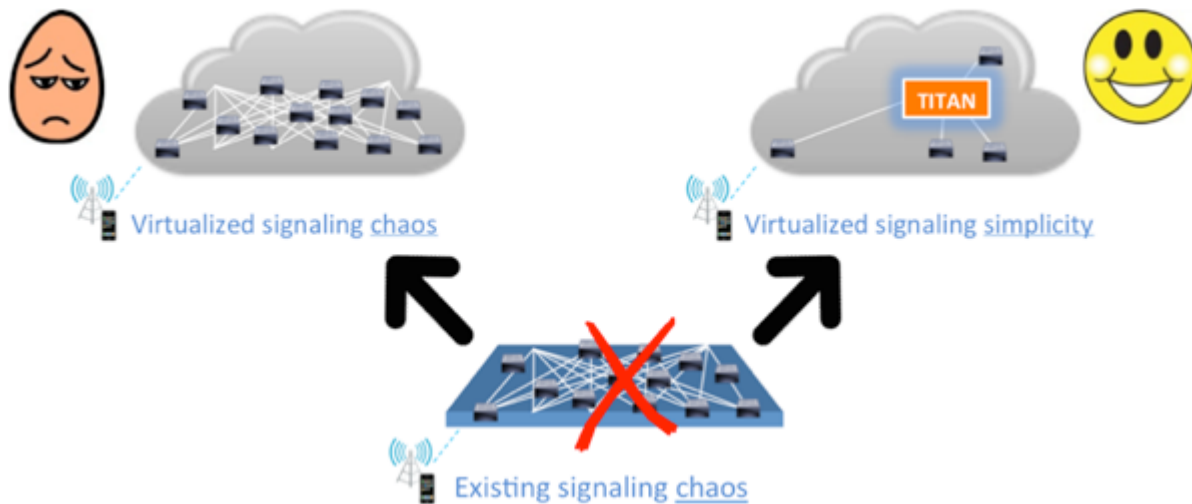
## Delivering the Promise of NFV

With the introduction of NFV solutions in the core of the network, simplification of the signaling-control layer becomes of eminent importance for service-providers seeking to achieve real operational cost savings. The signaling and control layer is of particular concern because of the large number of existing silo functions that need to be virtualized. At a minimum, service-providers need to virtualize 15+ silo services:

- IMS Signaling & Control – I/S-CSCF, HSS, SLF, IM-SSF, USSD-GW, LRF, BGCF
- LTE Signaling & Control – DRA, DEA, PCRF, OCS, SPR
- Legacy IN Signaling & Control – STP/SGW, IN-SCP, HLR, NP, EIR

## Virtualized Chaos = Operational Cost

The act of migrating 15+ existing signaling-control silos into an NFV architecture where every function becomes a “virtual silo” will do nothing to lower costs. By comparison, deploying a single signaling-control platform that supports multiple services has the potential to dramatically reduce network complexity.

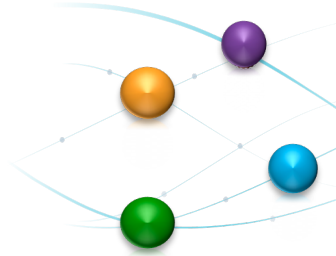


## TITAN = Virtualized Simplicity

TITAN drives complexity out of the NFV model by delivering a single platform that integrates directly into the NFV service-orchestration layer supporting multi-protocol signaling-control services (SS7/C7, DNS/ENUM, SIP and Diameter). The result is a 15x reduction in operational complexity. TITAN resolves the existing signaling control chaos and avoids that the same chaos is virtualized with NFV.

In addition, NetNumber TITAN provides carriers with the benefits of:

1. **OSS/BSS Simplification:** One central location to provision multiple signaling-control and network database services. One central location for aggregation of CDRs from multiple signaling control applications. One central location for integration with the network management system for alarms, traps and monitoring.



## Product Data Sheet

2. **Customer Specific Service Logic (RPL):** The unique and flexible TITAN JAVA SLEE programming capabilities allow customers to quickly modify both TITAN data structures and service logic so that impacts on existing OSS/BSS systems can be minimized.
3. **Full NFV integration:** Tight integration of the TITAN Master and Edge applications into VMware and OpenStack service orchestration layers (TITAN 8 feature).

## About NetNumber

NetNumber brings 14 years of experience delivering innovative signaling control solutions. Today we are the leading provider of converged, routing and database services to the global communications industry.

Please visit [www.netnumber.com](http://www.netnumber.com) or contact your local account representative via [sales@netnumber.com](mailto:sales@netnumber.com)

## Growing Industry Recognition

Over the last months NetNumber received multiple nominations for its TITAN product at conferences.



June 2014  
Finalist for “**Best LTE  
Core Network Product**”



April 2014  
Finalist for “**Most  
Innovative Virtualised  
IMS Solution**”



December 2013  
Finalist for **Fierce Innovation Awards:  
Telecom Edition, Service/Session  
Creation, Orchestration & Delivery**