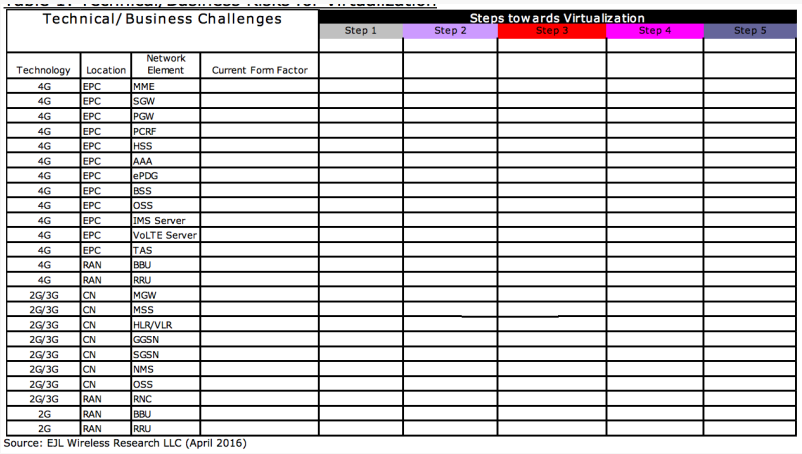
Mobile Network Function Virtualization Fundamentals - NFV Ecosystem analysed

The Mobile Network Function Virtualization Fundamentals covers the current reference architecture for NFV and the ecosystem of equipment vendors.

LONDON, UK, April 28, 2016 /EINPresswire.com/ -- The potential for full interoperability between different NFV ecosystems remains uncertain as it goes against the current telecommunications equipment vendor business model, according to the latest report from 4G-Reports.com titled "Mobile Network Virtualization Fundamentals."

4G-Reports logo



Technical/ Business Challenges				Steps towards Virtualization				
				Step 1	Step 2	Step 3	Step 4	Step 5
Technology	Location	Network Element	Current Form Factor					
4G	EPC	MME						
4G	EPC	SGW						
4G	EPC	PGW						
4G	EPC	PCRF						
4G	EPC	HSS						
4G	EPC	AAA						
4G	EPC	ePDG						
4G	EPC	BSS						
4G	EPC	OSS						
4G	EPC	IMS Server						
4G	EPC	VoLTE Server						
4G	EPC	TAS						
4G	RAN	BBU						
4G	RAN	RRU						
2G/3G	CN	MGW						
2G/3G	CN	MSS						
2G/3G	CN	HLR/VLR						
2G/3G	CN	GGSN						
2G/3G	CN	SGSN						
2G/3G	CN	NMS						
2G/3G	CN	OSS						
2G/3G	RAN	RNC						
2G	RAN	BBU						
2G	RAN	RRU						

Source: EJL Wireless Research LLC (April 2016)

Technical and Business Risks for Virtualization

"We believe the realization of full NFV will be a gradual and long term process. Along the way, new business models for equipment vendors will need to be created and built with the support of service providers. We have introduced the concept for a five step evolutionary process for hardware/software platforms to achieve NFV within the wireless market" says co-author, Donglin Shen. "While we believe that NFV benefits the current business model for equipment vendors within their own ecosystem, the issue of full multi-vendor interoperability highlights the ongoing business model differences between service providers and equipment vendors. It is the similar to full multi-vendor CPRI interoperability for the fronthaul link" says founder and President, Earl Lum.

> The issue of full multi-vendor interoperability highlights the ongoing business model differences between service providers and equipment vendors.
>
> *Earl Lum, President EJL Wireless Research*

The analysis covers the current reference architecture for NFV, the role of the OpenDaylight project, the current ecosystem of equipment vendors as well as the hardware/software platform impact to support NFV. Additionally, the analysis covers the current views on both a virtualized EPC and virtualized RAN (vRAN) within a mobile network as well as virtual baseband units (vBBU) and virtualized base stations (vBS)

Equipment Vendor/Service Provider Ecosystems including:
- Alcatel-Lucent (Nokia)
- China Mobile

- Hewlett-Packard Enterprise
- Ericsson
- Huawei Technologies
- Wind River Systems

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