

SOFTWARE DEFINED AND VIRTUALIZED ECOSYSTEMS

INTRODUCTION & INSIGHTS

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Brief Introduction:

SRPSDVE Study Group
(Subgroup: Performance)

Why IEEE Standards Association - 1

- Oversees development of standards within IEEE
- Global Membership
 - Over 7 000 individual members
 - Over 127 corporate members
 - Approximately 20 000 participants
- Broad Standards Portfolio
 - Approximately 1 000 active standards
 - Approximately 400 standards in development
- Governed by volunteers
- An independent organization
 - Participants come together to develop standards with many constituents

Why IEEE Standards Association - 2

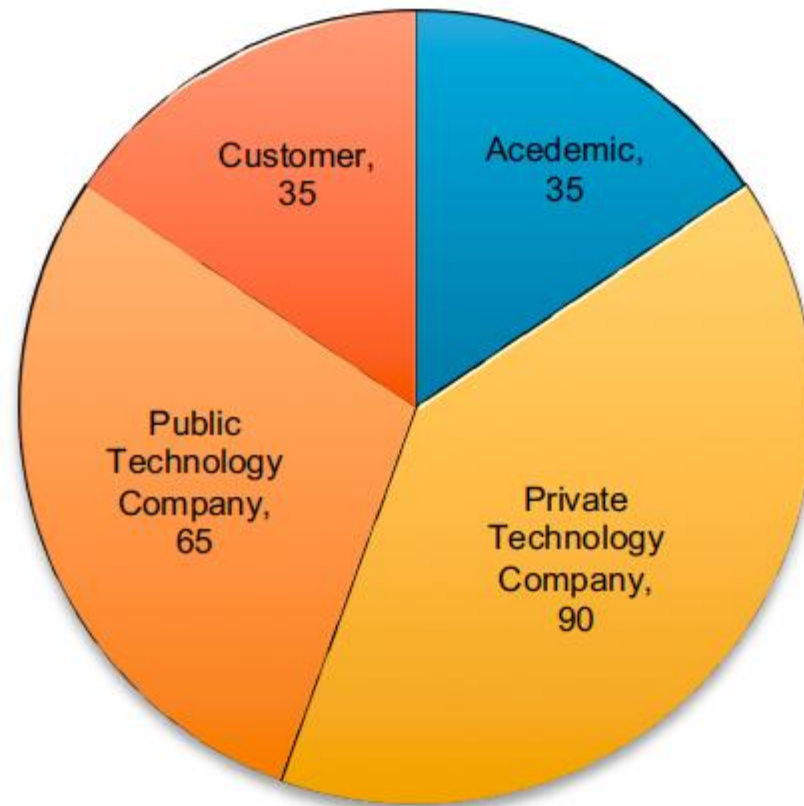
- **Five** principles guide standards development
 - Due Process
 - Openness
 - Consensus
 - Balance
 - Right of Appeal
- Ensuring **integrity** and **wide acceptance** for IEEE standards
- IEEE standards reflect the standardization principles as stated by the **WTO**

Why IEEE Standards Association - 3

- In words of **The European Patent Organization**
 - “Unlike various other international standards organizations which are based on treaties or extensions of national government standards organizations, the IEEE-SA is a voluntary body that determines community standards through consensus among its members”
- Global Cooperation
 - **MOUs** with SDOs
 - ETSI, IEEMA,...

Some Insights

Organizations Associating with SDN



Source: <https://www.sdncentral.com/sdn-market-size/>

SDN Market

- 2013
 - \$1.5 Billion
- 2015
 - \$7.8 Billion
- 2018
 - \$35.6 Billion

Big Pains

- **Incomplete** or **nonexistent** standards
 - 62%
- SDNs across **multiple vendors** equipment
 - 33%
- SDNs across **multiple layers**
 - 33%
- SDN software controller can **slow** high capacity traffic
 - 29%

Source: Infonetics July 8, 2013 July 2013

http://enterprise.huawei.com/ilink/enenterprise/download/HW_343626

Operator NFV Deployment Drivers in 2014

- **Scale** services up or down quickly
 - 80%+
- Operational **efficiencies**
 - 60%+

Source: Infonetics Research: SDN and NFV Strategies: Global Service Provider Survey, March 2014
http://www.mavenir.com/files/doc_presentations/Infonetics_NFV_AnEasierInitialTarget_061914.pdf