



Open. Together.

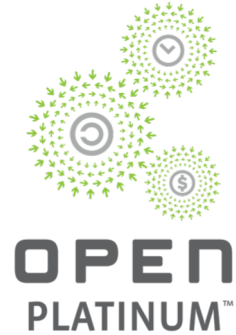


OCP
GLOBAL
SUMMIT

Dave Maltz

Distinguished Engineer, Azure Networking
Microsoft Corporation





SONiC/SAI

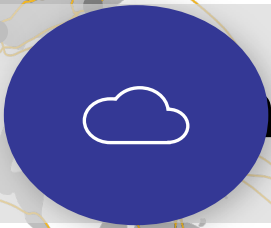
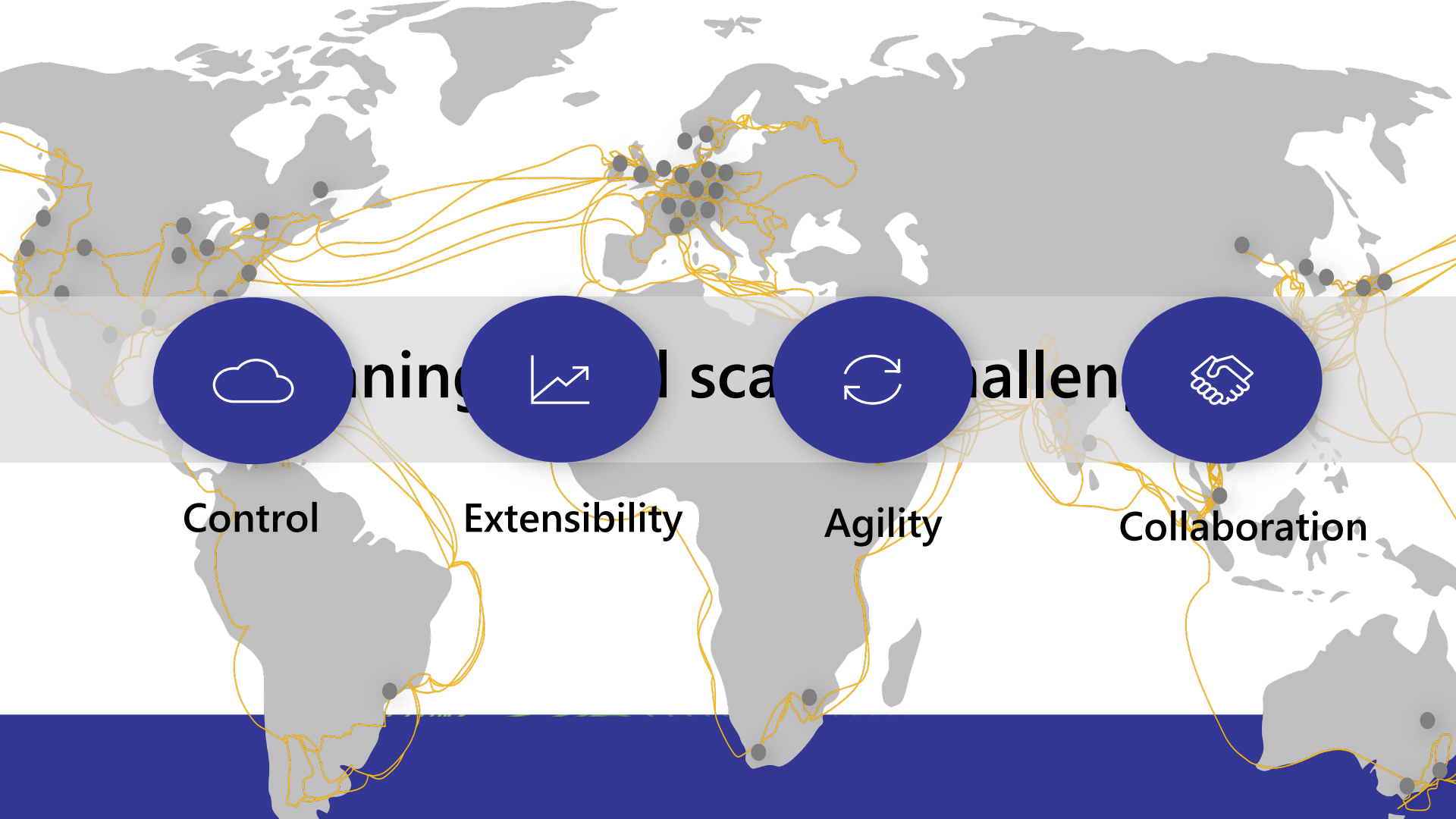
And Its Rapid Growing Ecosystem

David A. Maltz

Distinguished Engineer
Microsoft Azure Networking



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Control



Extensibility

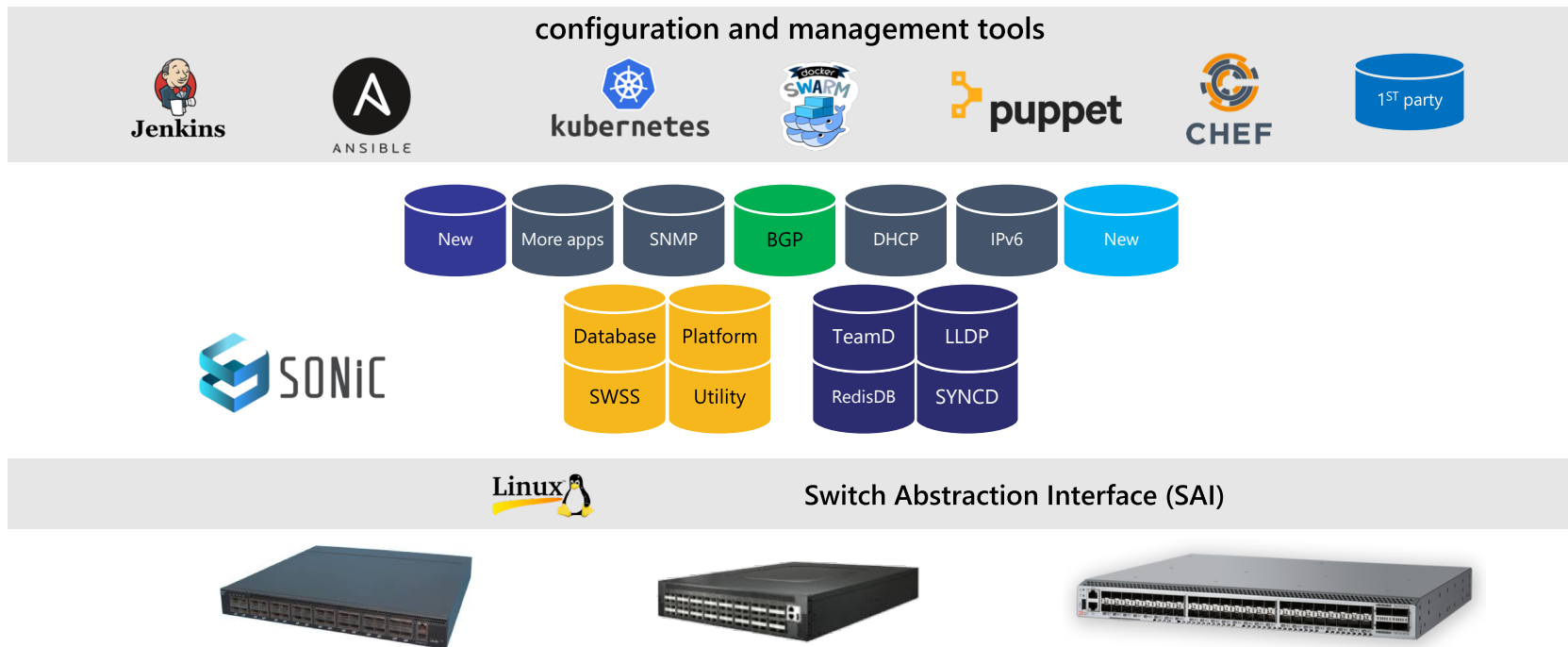


Agility

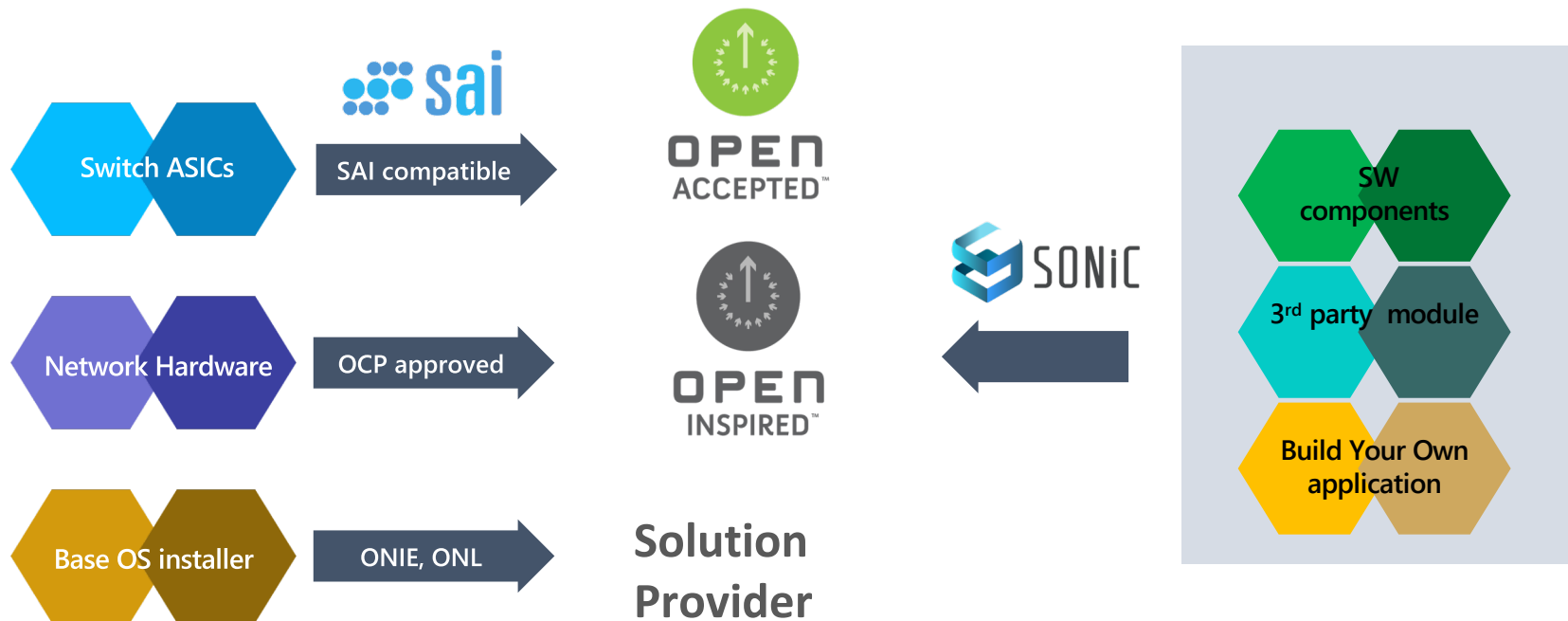


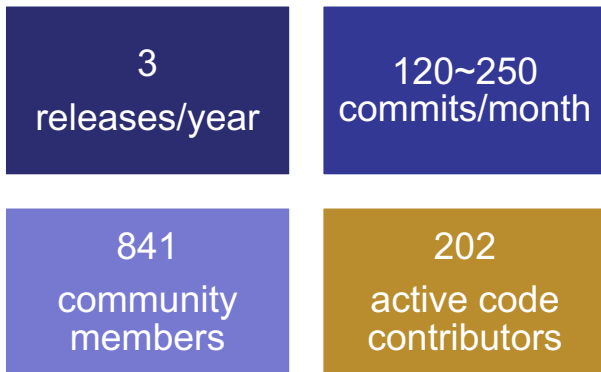
Collaboration

SONiC Software for Open Networking in the Cloud



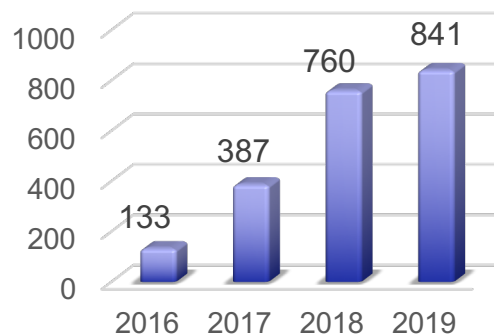
OCP ecosystem enriched by SONiC



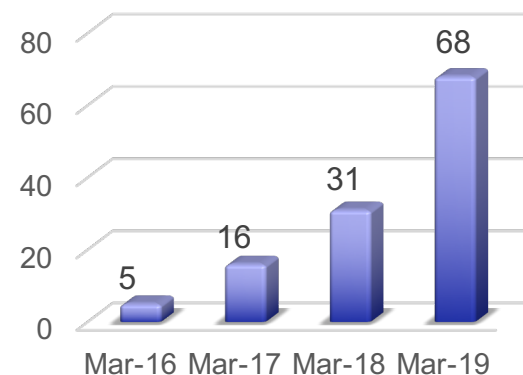


68
supported
platform

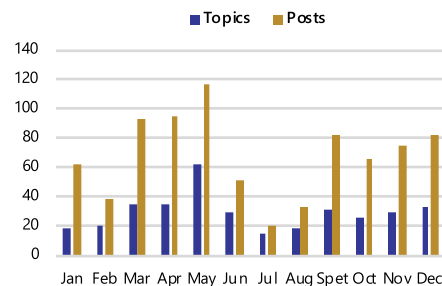
Community members



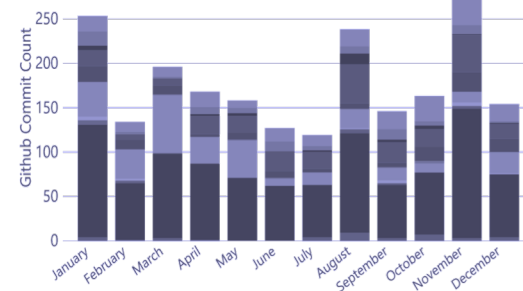
Supported platforms

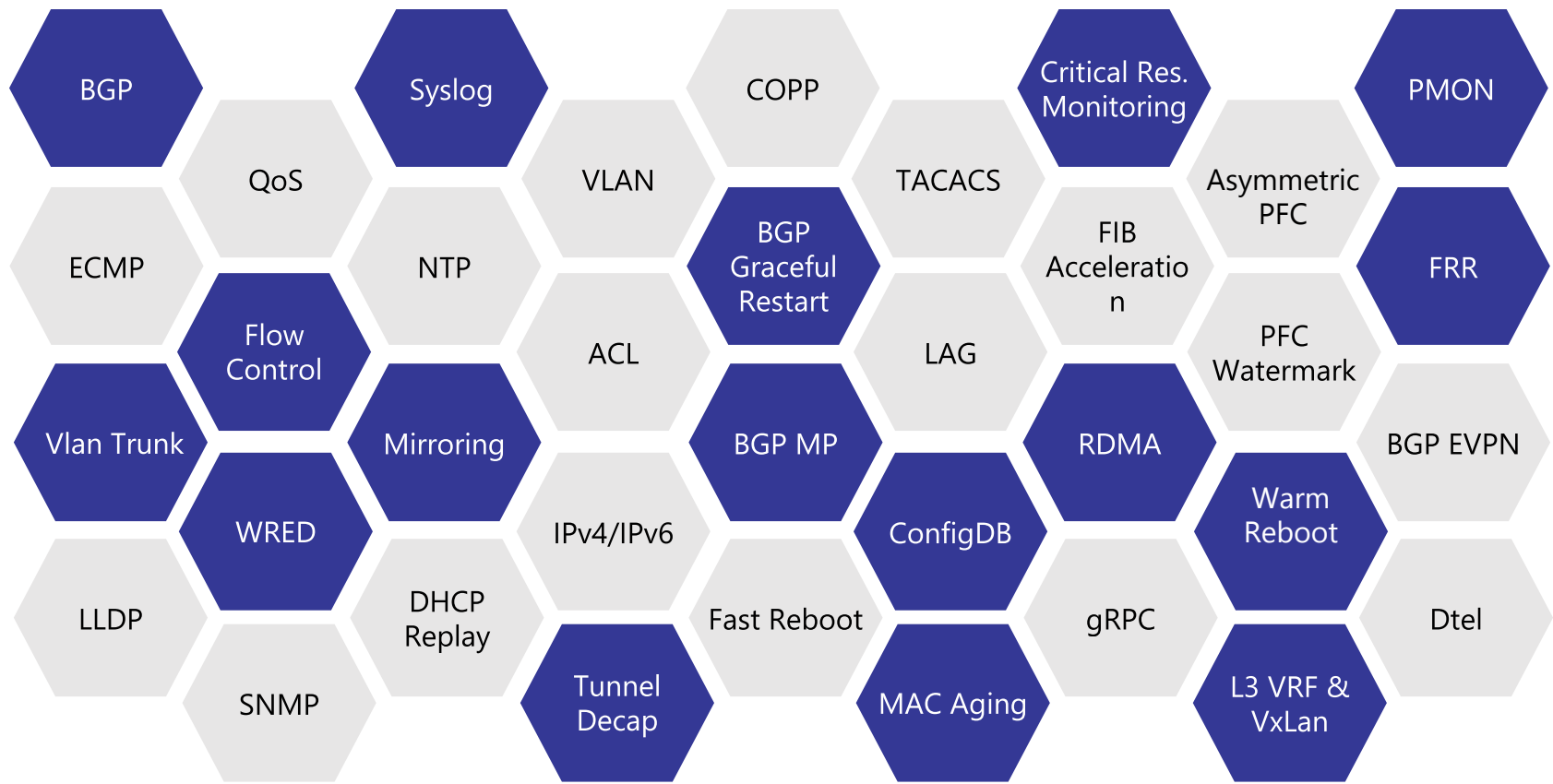


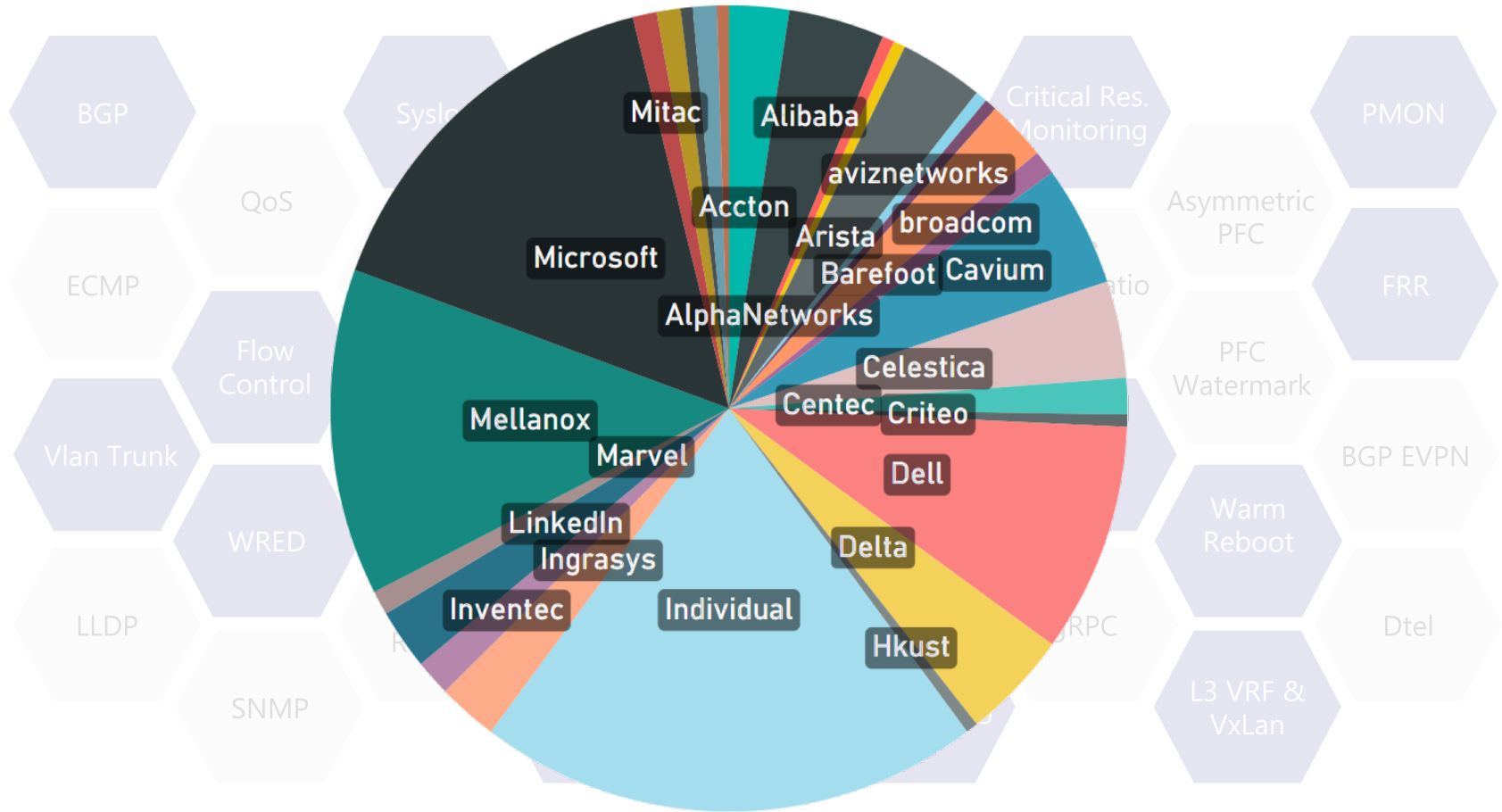
Active Community posts



Commits/Month







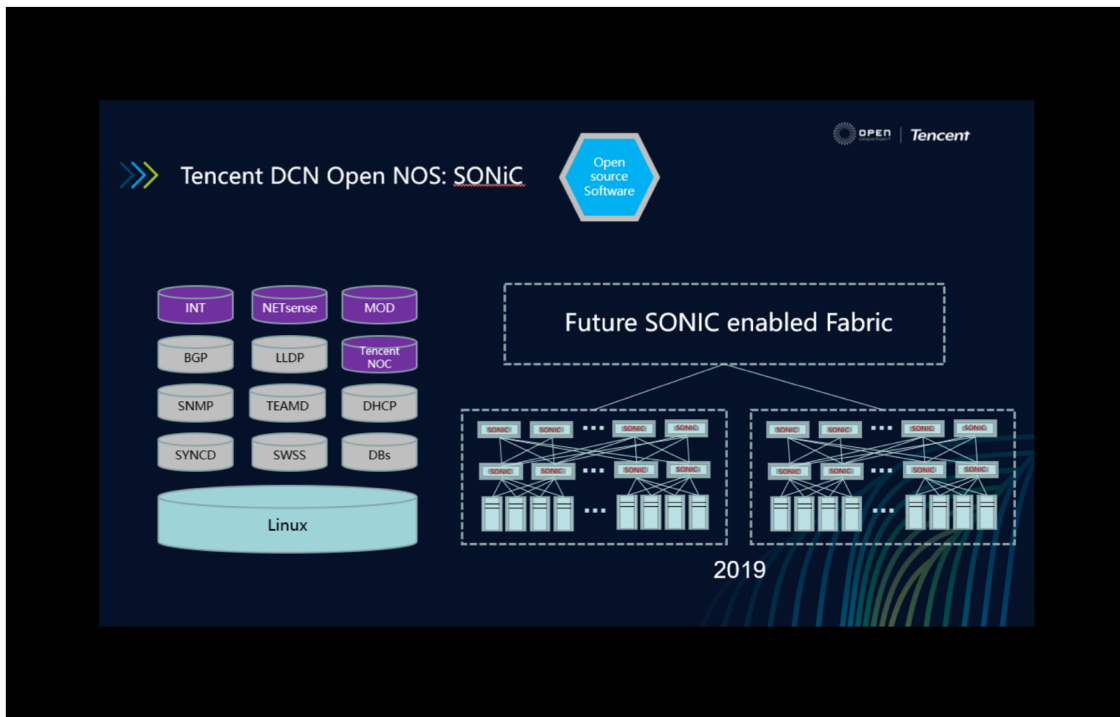
ODCC(Open Data Center Committee) - China

Phoenix Project (凤凰项目)

- SONiC Phoenix release for white box switch
- Interoperability test certification
- Build open source management tooling on top of SONiC Phoenix release
- Founding members: Alibaba group, Tencent, Baidu, China Mobile, China Unicom, and JD.com

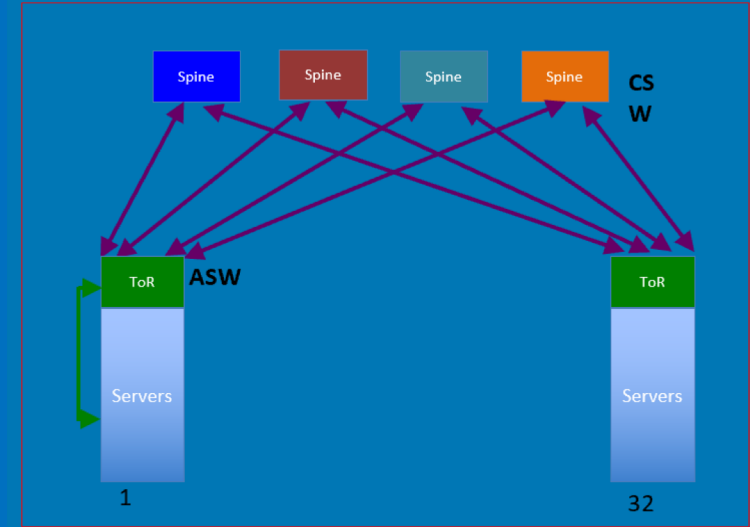


- Building block for Tencent open DCN Networking
- Will deploy SONiC to POD and Fabric
- Adding INT, NETsense, MOD, Tencent NOC for DC operation
- 2019 OCP Tech Day talk





- Building block for a flexible datacenter infrastructure
- SONiC complements Open19 ecosystem
- Deployed in 40% data centers
- Vision: 100% switches running on SONiC
- Enhancements Contributed
 - FRR integration
 - IPv6 ACL
 - FIB-acceleration
 - Warm reboot collaboration
 - Leading security process





Building block for fast evolution, high reliability, operation cost reduction

- Deployed to 44 regions
- Firmware upgrade up to thousands of switches per day
- High fidelity emulation tool—ONE for configuration validation
- Feature release reduced from months to weeks

Looking forward

- Inside data center all on SONiC
- Extending to management network, WAN, and other roles

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Alibaba Group
阿里巴巴集团

apstra®

docker

LinkedIn

centec

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和碩聯合科技

恒为科技
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Edge-core
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ufiSpace

Nephos

Tencent 腾讯

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香港科技大學
THE HONG KONG
UNIVERSITY OF SCIENCE
AND TECHNOLOGY

Nephos

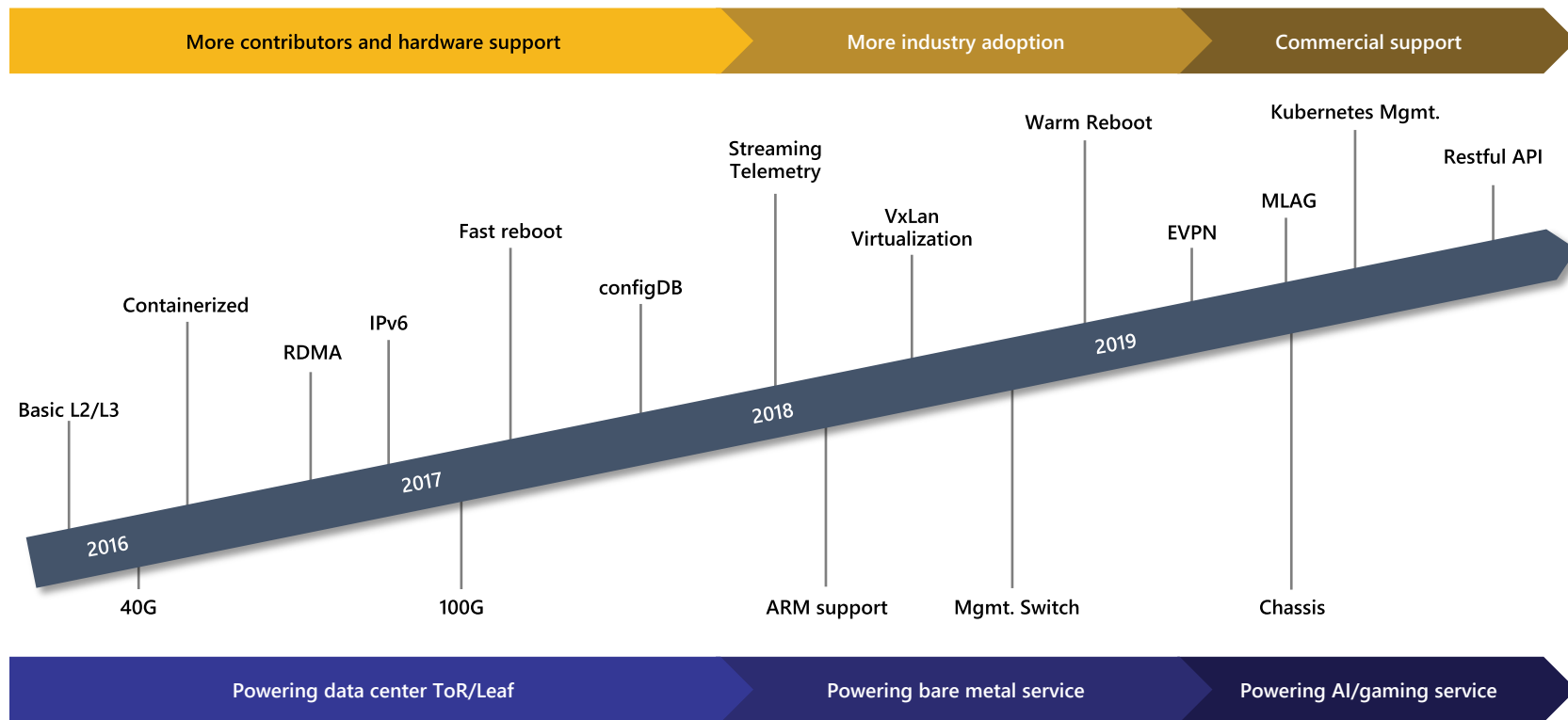
廣達電腦
Quanta Computer

WNC
Wistron NeWeb Corp.

Microsoft



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An Open invitation

Inviting contributions in all areas

Download it, test it and use it!

- **SONiC/SAI**
- **Hardware platform**
- **New features, tests, applications and tools**

Website: <https://azure.github.io/SONiC/>

Mailing list: sonicproject@googlegroups.com

Source code: <https://github.com/Azure/SONiC/blob/gh-pages/sourcecode.md>

Wiki: <https://github.com/Azure/SONiC/wiki/>
<https://www.opencompute.org/wiki/Networking/SONiC>



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