



How openness is driving efficiency in Data Centers...a perspective from the Open Compute Project (OCP)

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....a thought for your day

If current OCP designs and practices were applied world-wide today the energy consumed by all the world's data centres would **reduce by more than 50%**.

www.opencompute.org



How it all started and where is it today?



How OCP drives the efficiency of a data center?



The numbers...and impact on Europe?



Consume. Collaborate. Contribute.

COMPANIES > FACEBOOK

Facebook to Build Its Own Data Centers

Facebook has decided to begin building its own data centers, and may announce its first facility as soon as tomorrow. The fast-growing social network has previously leased server space from wholesale data center providers.

Rich Miller | Jan 20, 2010




































Open Compute Project

A collaborative community focused on redesigning hardware technology to efficiently support the growing demands on compute infrastructure.

Enabling the industry to *Consume, Collaborate, and Contribute*

Efficiency
Scale
Impact
Openness

What types of Companies are participating in OCP?

2crsi (since 2018) 	ADLink (since 2012) 	Alibaba (since 2017) 	AMD (since 2012) 	Huawei (since 2018) 	Hyve (since 2012) 	IBM (since 2013) 	Inspur (since 2016) 
AT&T (since 2015) 	ColorChip (since 2017) 	Cumulus (since 2013) 	Delta (since 2016) 	Intel (since 2011) 	Inventec (since 2014) 	JD.com (since 2018) 	Lenovo (since 2016) 
Deutsche Telekom (since 2016) 	Edgecore (since 2016) 	Facebook (since 2011) 	Fidelity (since 2013) 	LinkedIn (since 2018) 	Mellanox (since 2012) 	Microsoft (since 2014) 	MITAC (since 2017) 
Flex (since 2016) 	Goldman Sachs (since 2011) 	Google (since 2015) 	HPE (since 2015) 	Netapp (since 2016) 	Nokia (since 2015) 	NVIDIA (since 2017) 	Penguin (since 2012) 
Quanta (since 2012) 	Rackspace (since 2011) 	Schneider (since 2014) 	Tencent (since 2018) 				

Our Projects



Networkin



Server



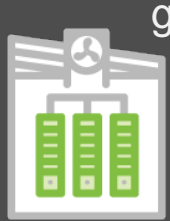
Storage



Rack & Power



Advanced Cooling



Data Center

Modular DC



Telco

Edge Sub Project



HWMgmt



Open Sys Firmware



HPC



Security

Open Source is delivering the new technologies



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Edgecore Networks Introduces 400G Open Networking

Contributes Design of Industry's First 400G Open Network Switch to Open Compute Project

March 20, 2018 12:00 PM Eastern Daylight Time


SAN JOSE--(BUSINESS WIRE)--OCP Summit – Edgecore Networks, the leader in open networking, today announced its contribution to the Open Compute Project (OCP) of the design of a 400 Gigabit Ethernet (400G) data center switch, the industry's first 400G open design, that will enable public and private network operators to increase dramatically the capacity of their infrastructures.



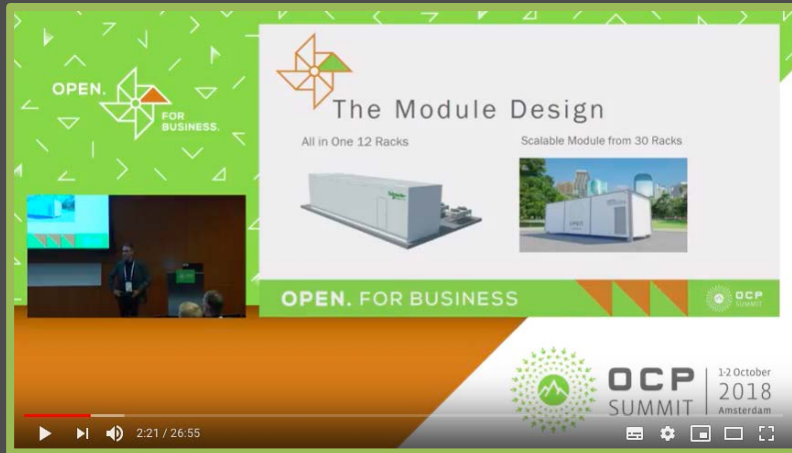
Microsoft readies new cloud SSD storage spec for the Open Compute Project

Microsoft's latest planned contribution to the OCP is a new spec for standardizing SSD storage firmware interfaces for use in cloud data centers.

By Mary Jo Foley for All About Microsoft | March 20, 2018 -- 18:58 GMT (11:58 PDT) | Topic: Storage




OCP – Modular Data Center



<https://www.youtube.com/watch?v=wOM4xIXZe64&feature=youtu.be>

Colo Ready Program



OPEN
Compute Project

Colocation Facility Guidelines
for Deployment of
Open Compute Project Racks

OCP Guidelines for Colos - Checklist

File Edit View Insert Format Data Tools Add-ons Help

100% View only

	A	B	C	D	E	F
1	Revision History					
2	Date	Description				
3	05 Oct 2017	1.0				
4						
5						
6						
7						
8						
9	This work is licensed under a Creative Commons Attribution 4.0 International License.					
10						
11	Checklist Use Information					
12						
13	It has been defined within the checklist:					
14						
15	1) The 'must-have' requirements that a colocation facility would need to enable the trouble free and smooth implementation of an Open Rack V2 that is populated and weighs 500kg and has an IT load of 6.6kw.					
16						
17	2) There is also additional guidance information in the checklist matrix where the 'must-have' line item is in the column titled 'acceptable' i.e. racks fed by a central UPS upstream circuit					
18						

Revision, Licence & Use Checklist - Simple Checklist - Detailed Recognition Scorecard Responses



<https://www.opencompute.org/contributions>

<https://www.youtube.com/watch?v=FU-9IKWbqwM&feature=youtu.be>

Consume. Collaborate. Contribute.

