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OCP News Flash
 Winter 2018

Mission: The Open Compute Project Foundation is a 501(c)(6) organization which was founded in 2011 by Facebook, Intel and Rackspace. Our mission is to apply the benefits of open source to hardware and rapidly increase the pace of innovation in, near and around the data center and beyond.

Letter from the President: OCP and Growth – Open. For Business.



I spent two days last month with the members of the Open Compute Project Foundation (OCP) in Austin, TX to finalize preparations for the upcoming Open Compute Summit on March 20-21 at the San Jose, CA

Translate ▼

Convention Center. Wow...we have a great lineup of keynote speakers, engineering workshops, Executive sessions, and you can expect some exciting announcements from an impressive list of sponsors and exhibitors.

The Open Compute Project Foundation has made significant progress over the years and we are very proud of the work done...but none of this progress is possible without a highly engaged, spirited and committed community. Thank you and Congratulations to all of you in the OCP community! You have been so successful that OCP is widely considered to be the best and most effective open technology community on the planet and we are just getting started! See the recently announced forecast from IHS Markit here: <http://bit.ly/2nGXqBF>

Technology continues to accelerate, and we will face new challenges to lead the drive for open infrastructure for machine learning, virtual reality, autonomous vehicles and continued automation of the internet of things. The OCP community is being asked to help

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hardware and software are blurring...we are being asked to move up the technology stack into firmware and software and we are being asked to drive change and open standards down to the silicon itself. With all these requests, it's easy to get distracted.

Please know that the Board of Directors will remain focused on the challenges we have today while anticipating the challenges ahead of us. We will be bold as we move forward! It's a privilege and honor to be back on the OCP Board of Directors.

OPEN. For Business.

Respectfully,



Mark Roenigk

Have questions about the 2018 OCP U.S. Summit?

Contact: Kali Burdette
Meeting & Event Manager
kali@opencompute.org

Things to do:

- **Register for Summit!**
- **Make Travel Plans!**
- **Plan your 2 days by checking out the schedule!**
- **Learn about the speakers and**

OCP Summit Schedule Highlights

On Day 1 (March 20th) we have a stunning lineup of keynote speakers that will be bringing their unique perspectives to our Community, including networking and security. Speakers like Andreas Bechtolsheim and Aneesh Chopra will provide insight and their expertise on where the future of open technology is headed and the balance required to collaborate in an open environment. Members like Facebook, Microsoft and Intel will share their stories and experiences with you. Please go to the [Keynote Blog Post](#) and check out the details!

For Day 2 (March 21st), OCP has organized over 120 in-depth engineering workshops that will give an update on current projects. Some will announce new products, others will share specifications, still others

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- **Find out about sponsorship for 2019!**
- **Leave your mark by becoming a member!**
- **Collaborate, Contribute & Consume OCP!**

The Open Compute Project (OCP) is a collaborative community focused on redesigning hardware technology to efficiently support the growing demands on compute infrastructure.

IHS Market Update

OCP Market Impact
Expected to Grow More
Than 5X Worldwide by
2021!!

- 2017 OCP YoY growth from non-board member companies was 103%
- The 5-year CAGR (compound annual growth rate) is 59%, while the total market growth is expected to be in the low single digits

OCP relies on collaboration from our Community, so get involved. Bring your ideas, your opinions and your expertise!

Over the next few weeks OCP will be going through each of the Project tracks and providing more details on their respective charter and associated activities in each workshop. To follow along, visit the OCP blog [here](#).

For full Summit schedule and details on how to register, [click here](#).



New Projects Overview - Open Systems Firmware

We kicked off 2018 with the formation of two new projects. The first project, Open Systems Firmware, is now formally recognized as a incubation project. After just a few initial calls, we have an active community represented by 8 companies and volunteer leadership from Google and Microsoft. The group recognizes many opportunities to open source and improve many of the initialization and bootloader functions that make up BIOS today. They also recognize that even though some functions (e.g. processor initialization) won't be open sourced, there remains opportunity to architect the firmware stack to easily integrate binary blocks and better define programming interfaces. Improvement to UEFI and the use of Linux for driver execution and boot management is within the scope of this project. The team has identified key opportunities for the project such as:

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board OCP revenue in 2017, with rack, power, peripherals and other (primarily WiFi and PON, or passive optical networks) expecting the highest growth rates

- The America's represented the majority of non-board OCP revenue in 2017, through hyperscaler, telco and financial industry adoption, while EMEA has a forecasted CAGR of 70%, primarily driven by telecommunications firms
- EMEA revenue from non-board member companies is expected to surpass \$1 billion (US) by 2021, while Asia Pacific is expected to surpass EMEA in adoption as early as 2020

- Provide standard hardware and software bootloader & initialization implementations
- Provide flexible solutions that will work across different types of IT equipment
- Provide flexible solutions that work for different company requirements
- Standardize system firmware components
- Improve security across the entire cloud computing industry through open standards

New Projects Overview - Security

The Security project was also incubated this month, which will create designs and specifications to enable software security for all IT gear through collaboration with the wider Open Compute community. This project will provide a foundation for securing all IT gear contributed through any of the Open Compute projects. Independently, Google was addressing security with the [Titan Project](#) while Microsoft has their own platform security approach with [Project Cerberus](#). Both companies soon realized they shared a common goal with complimentary engineering and came together to form this new OCP project, now co-lead by Google and Microsoft. Key deliverables to include:

- Consolidate security solutions for OCP hardware
- Use existing and emerging standards where appropriate
- Provide standard hardware and software security implementations
- Provide flexible solutions that will work across all types of IT equipment
- Standardize components required for hardware based software security
- Improve security across the entire cloud industry through open standards

For more information, go to the OCP Blog.

<http://www.opencompute.org/blog-2/blog/open->

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[more-than-five-fold-worldwide-by-2021/](#)

To Join a Project today, [Click Here](#) to show you how. Each Project lists the upcoming call schedule and its charter. Get Involved Today!

IC Representatives

Compliance & Interoperability

TBD

Data Center Facility

Rob Bunger (Schneider-Electric)

High Performance Computing

Phil Pokorny (Penguin Computing)

HW Mgmt

John Leung (Intel)

Networking

Mark Shaw (Microsoft)

Rack & Power

James Jau (QCT)

Server

Bob Ogrey (AMD)

Storage

- OCP Website: Check it out!
- Engineering Workshops: Videos are available.
- Webinars: Sign up and learn something new.
- Summit: Register Now!
- Projects: Get involved and Join the Calls
- Marketplace: Go online and start adopting today!

Foundation News

By now, all of our members have received notification about changes in our Membership Structure. There are some great changes underfoot at OCP. These changes affect all new members starting March 1st and is effective for all existing members at their next renewal. All tiers have been affected. Please ask Archna or Michael if you have any questions or email us at membership@opencompute.org.

Contribution Flexibility: OCP heard what our members were saying and they wanted the ability to participate in different ways. OCP will now be accepting all types of contributions: traditional (specs, design packages and product recognition) and non-traditional. We realize that our Members are utilizing OCP solutions in many different ways and we would like to hear more about their experiences and their expertise. Below are just some examples of non-traditional contributions:

- reference architectures
- tested configurations
- white papers and case studies
- testimonials
- education videos and seminars

Platinum members will be required to make two contributions annually.

Time Tracking vs Sponsorship: Historically we have tracked time as a membership requirement. This has been hard to do as you and OCP expand globally and as multiple groups within your organization partake in

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Tom Anschutz (AT&T)

**Security & Open System
Firmware**

Bill Carter (acting)

**Interested in
Volunteer
Leadership?**

- Join a Project Group
 - Participate in Discussions
 - Run for a Project Lead Position
- Elections for Project Lead Positions are coming up in June... For more info, contact Archana Haylock.

Project Leads**Compliance &
Interoperability (C&I)**David Wolfe (UNH) &
Asim Rasheed (Keysight)**Data Center Facility
(DCF)**Brevan Reyher
(Rackspace)

is asking for Silver, Gold and Platinum Members to sponsor collaboration events that we host throughout the year. OCP Summit and corresponding events are not included. Events include engineering workshops, plug-fests, seminars, technology days, etc. that OCP conducts independently or in conjunction with a conference or partner.

Contribution or Sponsorship Opt-Out: OCP and its community rely heavily on the commitment from our membership - we discount the annual fee for our higher tiered members because they contribute more time, more leadership and make more contributions. Because we realize that not everyone can make the time commitment or make the contribution, we have put in place opt-out options.

Thank You's and Welcomes:

OCP would also like to thank Jason Schafer (Google) and Chad Somerlot (RackSpace) for their leadership and support of OCP. Jason served at the IC Representative for the Data Center Facility Project and Chad served as the IC Representative for the Compliance and Interoperability Project. Their time and personal commitment to the projects was sincerely appreciated. We wish them much luck in their next venture.

Data Center Facility (DCF) Project promotes Rob Bunger as the new IC Representative. Rob has previously served as the Project Lead for this Community and we are very excited to see him now bring his experience and expertise in this new role. Filling in for Rob as the Project Lead will be Brevan Reyher from Rackspace. Brevan leads Data Center Engineering for Rackspace's Global DC Infrastructure Design & Build group and now will apply his expertise to the DCF Project.

The **High Performance Computing (HPC) Project** welcomes 2 new Project Co-leads: Adi Gangidi (Rackspace) and Steve Roberts (IBM). As demand for this Project grows, Adi and Steve will be bringing lots of subject matter knowledge to this group. Adi led the

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Adi Gangidi (Rackspace)
& Steve Roberts (IBM)

HW Mgmt

Norman James (IBM) &
Bernie Meir (Ericsson)

Networking

Omar Baldonado (FB) &
Scott Emery (Cumulus)

Rack & Power

Steve Mills (FB) & Bryan
Obernesser (Fidelity)

Server

John Stuewe (Dell) &
Siamak Tavallaei
(Microsoft)

Storage

Jorge Campello (WD)

Telco

Kang-won Lee (SKT) &
Bryan Larish (Verizon)

Security (Incubation)

Nate Klein (Google) &
Bryan Kelly (Microsoft)

**Open System Firmware
(Incubation)**

Ron Minnich (Google) &
Gundrala Devendra
(Microsoft)

IBM charged with HPC / Cognitive system design and delivery. Together with Phil Pokorny (Penguin Computing) as the IC Rep, both bring tremendous passion and subject matter expertise to our HPC Community. Please bring forward your proposals and ideas.

Security Project is an incubation project for OCP. It is getting a lot of traction and collaboration. As the team firms up the charter, Nate Klein (Google) and Bryan Kelly (Microsoft) have offered to work together as co-leads. They will help shepherd the current list of initiatives, prioritizing and setting up the process for rolling out contributions for this group.

Open System Firmware is another incubation project for OCP. There are lots of conversation on how does one work with system firmware in an open environment. Working with LinuxBoot, NERF and UEFI are just explorations that this community will be investigating over the next few months. With Ron Minnich (Google) and Gundrala Devendar (Microsoft) at the helm, this Community will be sharing some very interesting topics in the months to follow.



What is a Solution Provider?

Being part of the SP program allows companies to list their solutions on our [OCP Marketplace](#) and have access to various sales enablement resources. If your organization is interested in becoming a SP please contact Steve Helvie (steve@opencompute.org).

Are you an SP?

Welcome Color-Chip!

We would like to welcome Color-Chip (<https://color-chip.com/>) as a new SP. Color-Chip is headquartered in Israel and specializes in optical components and

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Marketplace Update

This March will mark the one year anniversary for the OCP Marketplace. Since the launch we've seen several SP's take advantage of branding and listing their OCP products on the Marketplace.

We currently have 85 products listed across the key technology categories and we have a healthy pipeline of potential products to list in the coming year. Specifically, we're looking to add more Rack & Power products as well as Integrated Solutions.

The Importance of Landing Pages & User Experience - SP's can further leverage the value of the Marketplace by ensuring potential adopters have a positive user experience when "clicking-through" to view a SP's website. Creating an OCP "Landing Page" within the SP's main site with the appropriate branding will keep potential adopters from being frustrated searching for the OCP products they were viewing on the Marketplace. Please feel free to speak with Steve to discuss some ideas for potential landing pages.

You Asked, We Listened!

Process for New Project Ideas

Ever wonder how a project gets started within OCP?? Well here is a quick guide:

Community brings forth concepts and proposals for new initiatives to OCP. Sometimes there are born within a project where the needs of the Community extend beyond the Project Charter. Sometimes these proposals come to OCP from another open organization and sometimes they come from the industry, looking for a forum for collaboration and candid feedback. Regardless of the origin, the OCP Foundation considers each proposal carefully. We

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Getting in Touch...

CEO: Rocky Bullock**Director, Finance:**[Nick Bullock](#)**CTO:**[Bill Carter](#)**VP Sales Channels:**[Steve Helvie](#)**Director, Marketing & Communications:**[Dirk Van Slyke](#)**Director, Community:**[Archna Haylock](#)**European****Representative:**[John Laban](#)**Membership/****Community Specialist:**[Michael Schill](#)**Meeting & Event****Manager:**[Kali Burdette](#)

Want to become a Member?

<http://opencompute.org/participate/how-to-join/>

impact to the adopters of the OCP solution. OCP Foundation presents this proposal to our Board of Directors (BoD). If approved, an incubation project is created. Working with the key stakeholders and drivers of the project, a charter is developed and project leads are elected. The final charter is presented to the Incubation Committee for approval. The Project is now on its way to having a Community. The incubation period can vary from project to project. In the end, the goal is to have a variety of contributions from the exchange of ideas and initiatives. Contributions can come in the form of a specification, design files, products eligible for recognition as OCP Accepted™ or OCP Inspired™ along with reference architectures, tested configurations, white papers, case studies, etc.

In the past 12 months, OCP has added so many new subgroups:

- Software for Open Networking in the Cloud - SONIC (Networking Project)
- Switch Abstraction Interface – SAI (Networking Project)
- Campus Branch Wireless – CBW (Networking Project)
- Open Network Linux – ONL (Networking Project)
- Open Network Install Environment – ONIE (Networking Project)
- Mezzanine Card (Server Project)
- Project Olympus (Server Project)
- Security – Incubation Mode
- Open System Firmware – Incubation Mode

Interested in a project, check them all out at:

<http://www.opencompute.org/projects/> or contact a Project Lead and find out how to get involved!

OCP is excited about this conversion as GoToWebinar is extremely user-friendly and easier-to-navigate than Fuze and other tools. OCP hopes this new methodology will eliminate any barriers to productive discussions and provide a better experience to the OCP community.

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Platinum



Gold



Silver



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