

We're Coloring the IoT prpl

Hardware and Software Developers Collaborating to Bring Next Generation 'Data Center-to-Device' Connectivity

What is prpl?

prpl is an open-source, community-driven, collaborative, non-profit foundation targeting and supporting the MIPS architecture—and open to others—with a focus on enabling next-generation data center-to-device portable software and virtualized architectures.



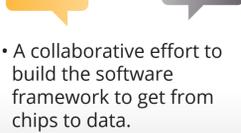
What Does that Mean?

The Internet of Things and Big Data are two sides of the same coin—or rather, the same stack of coins. The IoT is about all kinds of connected devices, and Big Data is about making sense of all the information that can be shared between them.

So far, the work of marrying the IoT with Big Data is mostly conceptual. There's a lot of work to be done.



The prpl Foundation is:



- A collaborative effort to build the software framework to get from chips to data.

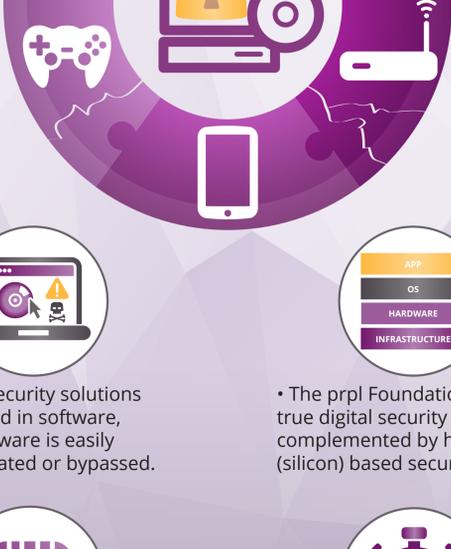


- Developers sharing our best ideas for building systems that interact virtually, securely and in real time with mobile IoT devices everywhere.

Initial domains targeted by prpl include data center, networking & storage, connected consumer and embedded/IoT.

Digital Security is Broken!

Digital security – within companies, over the Internet, on consumer handsets and even in the emerging IoT infrastructure – is broken. It's just not secure, it's flawed. Why?

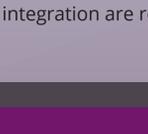


- Most security solutions are based in software, and software is easily manipulated or bypassed.

- The prpl Foundation believes true digital security must be complemented by hardware (silicon) based security layers.



- MIPS architecture offers hardware based security and anti-tamper features, including encryption, decryption, secure debugging and virtualization.



- In addition, hardware solutions create a performance hit, but the MIPS architecture resolves this – MIPS processor cores are ideal for products where ultra low-power, compact silicon area and a high level of integration are required.

What is the prpl Security PEG?

The security working group, called the Security prpl Engineering Group or PEG, is dedicated to ensuring security support for next-generation device-to-data center connectivity.



The goal of the prpl security group is to provide the next-generation security the world needs by creating a security definition that is:



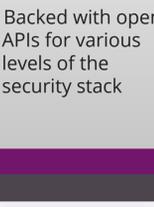
- An open framework for more resilient hardware-based security



- Usable in any digital communications application



- Easily scalable with multiple processors



- Backed with open APIs for various levels of the security stack



- Extensible for multiple generations



- Supportive of open connectivity in mobile, data center, enterprise and server environments

Who's involved?

We're building collaborative contributions from the best minds in security, chip and stack design, carrier and mobile communications design, enterprise and storage systems, consumer applications, and much more.

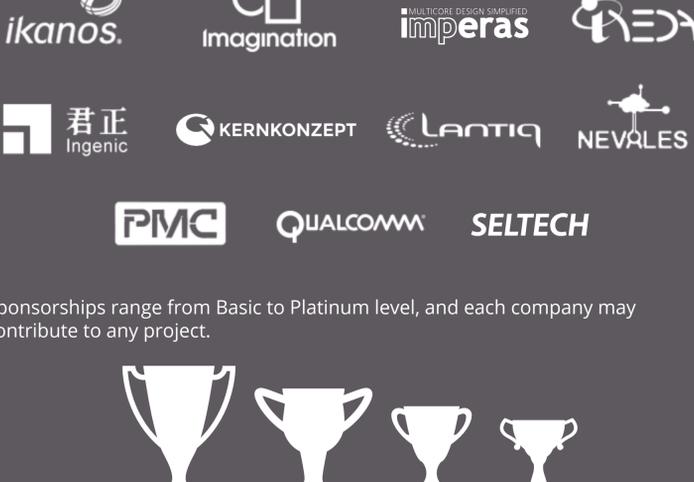


Developers can contribute as corporate members, individuals or students.

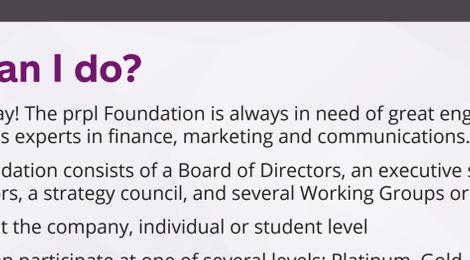


What companies are backing the effort?

The prpl Foundation is backed by leading companies in all of these domains.



Sponsorships range from Basic to Platinum level, and each company may contribute to any project.



What can I do?

Contact us today! The prpl Foundation is always in need of great engineering minds as well as experts in finance, marketing and communications.

- The prpl Foundation consists of a Board of Directors, an executive staff, several advisors, a strategy council, and several Working Groups or PEGs
- You can join at the company, individual or student level
- Companies can participate at one of several levels: Platinum, Gold, Silver
- Higher levels allow for greater participation across the Foundation

To find out more, see www.prplfoundation.org.



And, be sure to follow us on social media for new developments!

