Internet Governance Forum 2016 WorkShop #111
Session Title Empowering and educating the next billion Internet Users

Date December 6, 2016

Time9:00am pst

Session Organizer Digital Citizens Alliance

Chair/Moderator Dan Palumbo

Rapporteur/Notetaker Shane Tews

List of Speakers and their institutional affiliations
Shane Tews, American Enterprise Institute, Alexa Raad, Entrepreneurial Tech Executive and patent h
Ting-Edward, Issue Advisor at Internet NZ, Scott McCormick, President of Kvant Corp cyber security f
Rubin, Global Public Policy director at Tetra Tech

Key Issues raised (1 sentence per issue):Malware on mobile
Cyber trust and Data collection
Enabling Trust

If there were presentations during the session, please provide a 1-paragraph summary for each Presentat

Please describe the Discussions that took place during the workshop session: (3 paragraphs)

The continued growth of the digital economy and the devices that support this infrastructure call for a more ef
security capacity building structure as the expansion to the next billion users is created.   Security and privacy o
data is a key concern for the next billion Internet users. Can we learn the lessons of the first billion users to cre
on how we should proceed?

The Mobile web is the most used element of the next generation Internet Infrastructure. Can we co-design ca
the mobile web that have initiatives in mind for user readiness and security in mind? These were two key ques
the workshop participants.

Machine learning, physical presence of a device can help create a trust model using a collaborative architectur
be designed with predictive algorithms we know about mobile users; past behavior, normal usage including pu
can help make apps smarter using reputational norms and allowing a user to be protected from end-user scam
user data and potentially funds from the user of the mobile device.

Data privacy is also a major concern for current and upcoming technology. Mobile device apps privacy and use
criticized for their difficult terms of use legal language and length of the legal notice that is not user friendly to
device user. It was also noted the terms of service are difficult to translate in both the nuances of the terms of
the actual meanings into different languages from the original English source.

Recognizing the amount of data that is created and the immense amount of information that is available on th
population by the default action of most user accepting the terms of use without understanding who then ow
highlighted the question of who do you trust? And how do you know that the company is protecting the data

How much information is actually sent out across the network when you use a mobile device? Access to your c to you microphone, access to your contacts are all common requests of an app platform that have only a full a of use and not a per use capability. An example of sharing economy apps and their interest in keeping the app data on the user after the transaction had taken place highlighted concern over the lack of abiliy of the end us for a specific purpose for the benefit of the user and not a blanket invasion into the user's behavior for the ap sell the data to the market.

The Internet of Things (IoT) has great advantages for items connected to the Internet and to each other to allo interaction between devices and for remote command of a device. The lack of ability to manage basic security a concern. The low cost for the device to make it more affordable is usually due to inexpensive components th paired with static passwords that cannot be changed to enhance security of the device. Open wifi capability t data running across the device easy to intercept and monitor is a continuing concern too. There is also very li if any way to upgrade the software on the device due to the inexpensive design. These devices could be enha allowing other technology to inform on when and how the device should be able to be accessed. An example data or the Internet Protocol number as a geo-location device to cabin off who can access the controls to the I Many items could be programmed to ensure the person controlling the device is in the immediate vicinity to h the controls. Using geo-location was an example of how you could curtail anyone outside a certain area from to the system lowering security concerns for use of IoT devices to enhance productivity and avoiding cyber co

Creating, consuming and maintaining trusted applications is a goal for this group going forward.
Creating pattern mapping, enhancing the expectation of management of an individual's privacy when using te what context the information would be used as a way to control information that is gathered while using a mo

The lack of support of a full digital economic integration was noted by a participant who used the recent dem the two largest Indian currency notes as a mechanism to move the country to digital currency exchange throu technology. It was noted that while this is a laudable goal the country's infrastructure was not ready for such to the lack of infrastructure in most of the areas outside the key urban cities in India and 95% of the Indian po cash for goods and services. The creation of a strong financial backbone to support moving the Indian econom driven economy is not in place for this abrupt change. E-wallet providers are just getting in place in stalls at m areas for help bring more citizens onto the mobile web payment platforms. This was noted as a lesson to be le move forward into the more rural areas for the next billion users.

It was noted in contrast to the Indian culture being caught unprepared for such an abrupt change to a digital e bone the Chinese application "WeChat" is more of a portal and platform that is where the future should be he have created an app-within an-app environment that creates credentials throughout the entire WeChat ecosy has a smartphone penetration of 62% and this app that started as a social portal to send text, voice, and phot used as a banking portal, taxi hailing, food ordering, fitness tracker, appointment booking, utility monitoring, n news source all in one place that interacts amongst the capabilities. The apps ability to access utility bills and statements acts as an unofficial verification on the user. The usage of the app continues to inform the platfor access geo-located information such as city services.

WeChat is a mobile first approach to platform creation in China. It has become so popular that it's application being integrated into physical presence process payments, vending machines, restaurants, and hotels. The bu validator through vetted partners offers a seamless experience for the end user. The more people who use th

smarter the entire ecosystem becomes on user habits and ways to enhance the both the use and potentially pr
data.

Using the power of the Multi-stakeholder partnerships we can achieve a more secure and sustainable digital ec
outcome. By working together, we can enable positive impacts in core emerging digital economy tools and inf
We can improve information and technical development capabilities to the next billion users. Being aware of t
end users while encouraging the growth of technology is an important goal to ensure sustainable developmen
monitor for both enhanced and secure outcomes that have a mutual understanding built in; that the safety of
has to be a priority while building out the future of the Internet.

Please describe any Participant suggestions regarding the way forward/ potential next steps /key takeaw
paragraphs)

All of these engagement opportunities unlock more information that have the potential for good uses for both
and the affiliated user of the valued and vetted application platform. We want to take the lessons learned tha
for the consumers from these examples while being cognizant of the potential government access and obstruc
shared by these applications.

As we manage the continued tremendous growth of the capabilities and potential reach of these technologies
billion users we want to carry forward the lessons that will enable more security for the end user while enablin
technologies that will enhance the platforms for innovation and creative opportunity.