Meeting Minutes

Attendees

Commissioners: Maggie Wilderotter, Heather Murren, Ajay Banga, Pat Gallagher, Annie Anton

Others: Kiersten Todt**,** Kevin Stine, Kimberley Raleigh, Alice Falk, Jaime Crooks, Robin Drake, Matt Barrett, Amy Mahn

Agenda

I. Identity Management Recommendation Discussion Led by Kevin Stine
II. Workforce Recommendation Discussion Led by Kevin Stine
III. Next Steps/Wrap-up

Discussion

I. **Identity Management Recommendation Discussion** led by Kevin Stine
    a. Identity management proposed recommendations and action items have evolved. We will look at possible action items for identity management.
        i. Weak identity management is the root cause of many identity attacks. It can be an aggressive and measurable recommendation that can be presented with a definitive timeline.
            1. Suggest a public-private sector team to work toward eliminating identity as an attack vector.
            2. Targeted to agencies with heavy interaction with citizens and consumers. A wide array of top retailers, media organizations and others.
            3. It would be helpful to get commitments early in the next administration from all potential participants.
        ii. Reaction from the sommission –
            1. Is it a sufficiently bold and a meaningful recommendation?
                a. **Mr. Gallagher:** Possibly. There is the National Strategy for Trusted Identities in Cyberspace (NSTIC), which formed a steering committee. It needs to be very clear about what is different about this.
                b. **Mr. Gallagher:** It should not look like we are repeating NSTIC. Also, we must be careful about the wording. Removing "threat vector" can make people think of multi factor authentication (MFA), and others. If those methods are not used, the threat vector remains.
            2. **Mr. Banga:** It should be worded such that, "the vision we have for the digital economy will not happen without these things"… simplicity of use being as critical as security. It gets to Pat's points

more directly. Awareness on this area may still need to be raised. It may be why NSTIC did not have a great impact. We may need to think more about what's needed to make it work.

3. **Mr. Stine:** The challenge in the past has been there are a lot of technologies today. We need that perspective of public-private to make the right choices.
    a. NSTIC would be involved in this with other organizations, the FIDO alliance and others.
    b. **Mr. Banga (to Mr. Stine):** Should write about importance of inter-operable credentials. (Mr. Stine will take for action)
    c. **Mr. Gallagher:** There is a developing ecosystem with inter-operable approaches. Does it make sense to incorporate those standards into the NIST framework? It makes sense to a certain extent. Perhaps it makes sense at a higher level. Transparency is needed in this area as well so that consumers understand exactly how the security is working.
    d. NSTIC did not have a market at the time it came out. We need to identify these spaces now. The government did not adopt it due to shifting focuses. The President called for it and released a strategy, but it was not followed.
    e. **Mr. Banga:** Credibility through scale of adoption – If we use the framework, it will improve things for everyone.
        i. **Ms. Wilderotter:** The framework is a trusted foundation. It is a good way to look at it.
    f. Corporate America has a lot to gain with trusted access. All companies can participate in making sure their employees have updated identities. It creates a good habit.
4. Proposed action item: In the first 100 days recommend to establish clear rules for trusted identification. The government should then use those solutions that are developed with citizens.
    a. Directs GSA to work with citizen facing agencies and industry to develop those solutions.
    b. That action item developed from Mr. Sullivan being a leader in adoption. Good suggestion – Adopting, using as default, and promoting for citizen interaction.
5. Proposed action item: Government serves as attribute provider for identity decisions.
    a. The attributes provide the pieces needed to make decisions and transactions.
    b. The government can provides these key pieces.
    c. Privacy and security must be central and visible.
    d. How will identity proofing capability be described? It needs to be included in what is written in the report. It may go back

to AI 1 and the public-private partnership, and developing attributes.

e. **Mr. Gallagher:** The government is not providing information, but is offering a validation service. In other words, people submit data, and receive a matching score.
    i. Government data offers different proofing attributes.
    ii. Identity under internet of things action –
        1. Initiating a basic campaign on the internet of things. Suggested based on recent events. Changing default user names and passwords, etc.

f. **Mr. Stine**: Would appreciate any additional feedback. These suggestions will be included in tomorrow's draft for discussion next week.

II. **Workforce Recommendation Discussion Led by Kevin Stine**

a. We are attempting to be more specific in terms of outcomes, numbers of workers, etc. There is a need for a surge capacity in workforce. Automation will play an increasing role. The language covers short and long term, and tries to achieve a balance in ideas.

b. Suggestion of workforce recommendations in continuum with awareness. Basic consumer awareness in cybersecurity must come first. Job training and education will then follow. This sequence in the report makes a lot of sense.

c. The overarching proposed workforce recommendation in the near term – Building workforces. It has six potential action items:
    i. An apprenticeship program to develop a 100 thousand jobs in cybersecurity by 2020.
        1. Where does the job number come from? Is it statistically based? It needs be if it is not. Also, the number should be bold whatever it ends up being. Kevin will analyze data and arrive at a more bold number
    ii. Prepare students with cybersecurity awareness education at all grade levels.
        1. Workforce should possibly follow out of consumer as it seems to flow better.
    iii. Federal, SLTT governments create an exchange program to provide as many opportunities as possible.
        1. Do we want to call out contracting challenges that prevent people from being hired?
        2. May want to consider virtual work exchanges as well.
    iv. OPM will form a Presidential Fellows Program for civilian agencies with a cybersecurity focus.
        1. Will need to solve clearance bottle necks to get people hired quickly. The process can be streamlined. Can highlight it as a challenge.

v. Jointly sponsor a nationwide network of cyber boot camps. Increases supply in the immediate term. Can be oriented to under employed, or unemployed. Can reach under-represented populations. Veterans transitioning, women and others. Targeted recruitment and training efforts can be developed.
    1. **Ms. Wilderotter:** Are there specific organizations that can assist? There are some organizations that do boot camps, etc. There are an inventory that can be highlighted. We can also use the National Guard. There is a National Guard recommendation, we will want to look at this further.

vi. NICE, NSF, NSA, ED – Develop curricula in cybersecurity.
    1. **Ms. Anton:** Should work with Accreditation Board for Engineering and Technology (ABET). If we want to get a curriculum going, we need to partner with them. Annie will provide contact information for ABET to Kevin.
    2. **Ms. Anton:** If there are specific examples of initiatives, please share with Kevin. Scholarship for Service (SFS) pays for two of a four-year program for cyber. The students return the same number of years of service to the government. Lots of people get degrees and come back into government in jobs that don't match their background which frustrates them. Don't want that to be the status quo; should try to ensure people are placed in jobs where their skills are leveraged.
    3. MC hires graduating officers out of West Point. Mr. Banga will try to find and provide information.
    4. We need to make sure SFS graduates get in jobs that use the skills they learned in school.

III. Next Steps/Wrap-Up

a. **Ms. Todt:** Everyone will receive a revised draft tomorrow by early afternoon. We ask for the full document to be reviewed and provide edits. There will be another draft next week. Email or comments can be sent to me.