

## Who is OTA?

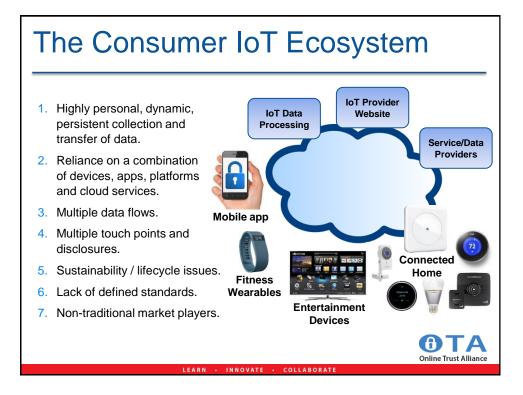
Mission to enhance online trust and empowering users, while promoting innovation and the vitality of the internet.

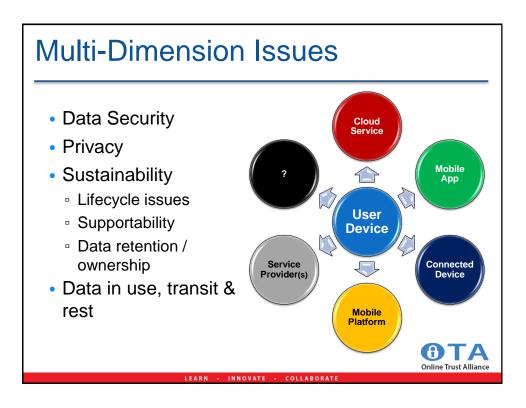
- Goal to help educate businesses, policy makers and stakeholders while developing and advancing best practices and tools to enhance the protection of users' security, privacy and identity.
- Collaborative public-private partnerships, benchmark reporting, meaningful self-regulation and data stewardship.

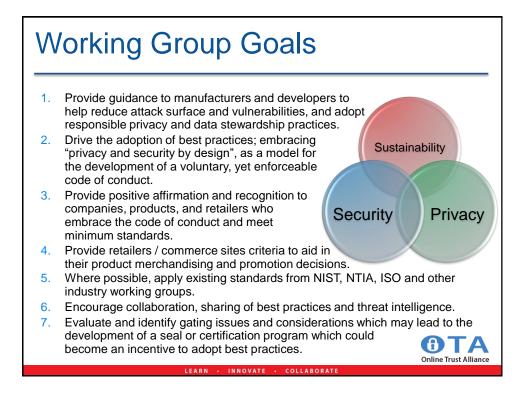
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- U.S. based 501(c)(3) tax-exempt charitable organization.
- Global focus & charter.
- Supported by over 100 organizations including retailers, commerce sites, interactive marketers, members of the advertising ecosystem and technology providers.









# Sample Framework Elements

#### Security



- Prompt/change default passwords
- Encrypt data in motion and at rest
- Remediate vulnerabilities remotely or by notifying customers
- Sign/verify all updates/patches/ revisions



- Privacy policy must be easily available before purchase, disclose consequences of opt out re: product features
- Disclose personally identifiable data types and attributes collected
- Data sharing only with third parties who agree to confidentiality, use for specific purpose

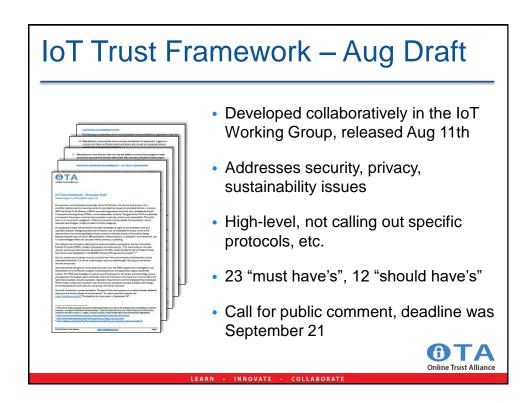
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#### Sustainability



- Disclose what functions work if "smart" disabled
- Disclose whether user can remove/purge personal or sensitive data upon loss, damage, sale, end of life
- Provide mechanism for transferring ownership of devices/services





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## Request for Comments

- Deadline was September 21, but will review others times permitting.
- Approximately 100 public and private comments submitted to-date.
- · In process of being reconciled and clarified

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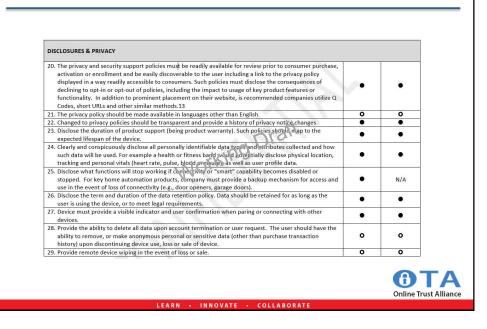
• Expanding to approximately 50 principles and criteria

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Security – Draft		
SECURITY		
Data Security – All personally identifiable data in transit and in storage must be encrypted using current <u>NIST</u> and industry recommendations applicable to their application and industry. <sup>1</sup>	•	•
<ol> <li><u>PII Security</u> – All sensitive and personally identifiable information including passwords shall be hashed and or encrypted. <sup>2,3</sup></li> </ol>	•	٠
<ol> <li>Site Security – All web sites must fully encrypt the user session and adopt HTTPs by celault, also referred to Always On SSL (AOSSL) where ever possible.<sup>4,5,6</sup></li> </ol>	•	•
4. <u>Server Security</u> – Sites must implement monitoring of site security a to server configurations using testing tools no less than monthly and help identify and remediate any vulner collities. <sup>7</sup>		
<ol> <li><u>Email Security</u> – Sites must adopt email authentic tip (plotocols to help prevent spear phishing and maximize email deliverability by adopting SPF, <u>DX Mand DMARC</u> policy for all consumer security and privacy related communications.<sup>8</sup></li> </ol>	٠	•
<ol> <li>Email Security - Publish a reject DMARC policy, helping ISPs and receiving networks to reject email which fail email authentication.</li> </ol>	o	0
<ol> <li><u>Email Security</u> – Adopt transport-level confidentiality including <u>STABTILS</u> and opportunistic Transport Layered Security (TLS) for email to aid in securing communications and enhancing the privacy and integrity of the message.<sup>9, 10</sup></li> </ol>	o	o
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# Disclosures & Privacy



#### **User Access & Credentials**

USER ACCESS & CREDENTIALS			
15. Use default passwords which prompt for reset or change on first use or are uniquely; use secure certificate credentials where no user password exists. As applicable, separate passwords should be required for administrative access.	•	•	
16. Provide secure recovery mechanisms for passwords and/or provide mechanism for contraining the set where no user password exists. Suggestions include multi-factor verification is provided phone, etc.) as well as incorporate lockout capability for multiple sign-on attempts.	•	٠	
17. All updates, patches and revisions must be cryptographically righed and verified. Such signing helps to insure the integrity of the patch and to verify the potrie of developer.	o	0	
18. Establish and review at a minimum semi-annually a breach response and consumer safety notification plan. Recommended best practices including conducting employee training programs and "tabletop" or breach simulation exercises. <sup>12</sup>	o	o	
19. Establish and maintain timely and secure mechanisms for users to contact the company regarding issues, including but not limited to the loss of the device, device malfunction, account compromise, etc.	٠	٠	

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#### **Open Questions**

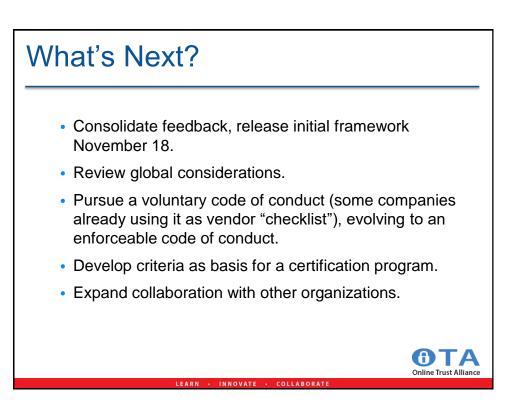
- 1. Consider a rating or scoring scale for certification.
- 2. Will all criterial be weighed the same?
- 3. Need to define who would be subject to the requirements? Device mfgs, platform providers, the entire ecosystem?
- 4. Considerations for data/network isolation?
- 5. What about meta data?
- 6. Concerns about devices with limited power (battery and chip)

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7. Requirement may to taxing, dramatic and potentially very costly

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- 8. Multi-user environments (family)
- 9. Data collection of minors
- 10. Should source code be made public?



### **More Information**

- Submit Comments We will review all!
   <u>https://otalliance.org/iot-trust-framework-submission</u>
- Join the working group <u>https://otalliance.org/system/files/files/member/documents/ota</u> \_\_iot\_membership\_application-2015v2.pdf
- Working group meeting in Washington, D.C. November 18 <u>https://otalliance.org/news-events/upcoming-events</u>
- Contact us for more info: <u>https://otalliance/org/lot</u> +1-425-455-4500



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