

IoT Trust Framework

leading to self regulation code of conduct and certification models

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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.
- U.S. based 501(c)(3) tax-exempt charitable organization
- Global focus & charter
- Supported by dues and donations



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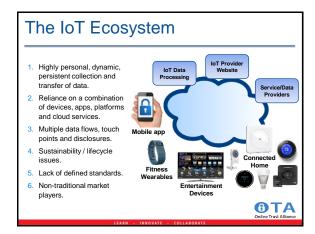
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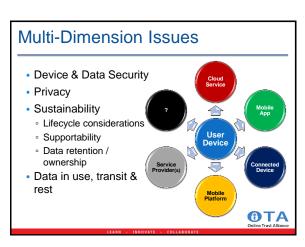
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Committee Contact

Committee Cont







Working Group Goals

- Phase 1; focus on connected home & wearable technologies
- 2. Provide guidance to help reduce vulnerabilities and adopt responsible privacy and data practices.
- Drive the adoption of best practices; embracing as a voluntary, yet enforceable code of conduct.
- Provide recognition to companies, products and retailers who embrace the code of conduct.
- Provide retailers / commerce sites criteria to aid in their product merchandising decisions.
- Think globally; where possible, apply international standards and practices.
- Encourage collaboration, sharing of best practices and threat intelligence.
- 8. Evaluate gating issues and considerations which may lead to the development of a seal or certification program.



Privacy

Sustainability

Security

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Framework Excerpts - Sustainability

- Disclose what functions will work if "smart" functions are disabled or stopped
- Provide a mechanism for transfer of ownership including providing updates for consumer notices and access to documentation/support
- Publish a timeframe for support after a device/app is discontinued or replaced by a newer version





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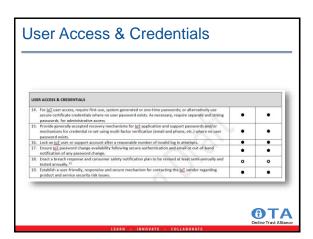
Where We Are

- January Working Group Formed
- · June Working draft of principles & goals ratified
- · Aug Public draft released with call for comments
- Sept Over 100 comments received
- October 19 2nd public draft released (today)
- November 18
 - Last call
 - Face-to-Face IoT Trust Summit in Washington DC.



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ramework – Total of 38 Criteria					
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	OT Trust Framework Pre-Release				
lol	Trust Framework ● Required ○ Recommended N/A – Not Applicable	Connected Home	Wearable Tech		
SEG	CURITY				
1.	Data Security — All personally identifiable <u>IoT</u> data in transit and in storage must be encrypted using current generally accepted security standards. ^{7,4} This is including but not limited to wired, Wi-FI and Blustonth connections	F-*	•		
2.	PIL Security – All sensitive and personally identifiable to information including passwords shall be hashed and or encrypted. \$10,33	1.	•		
3.	Site Security - All IoT support web sites must fully encrypt the user session and adopt HTTPs by default, also referred to Always On SSL (AOSSL) wherever possible, 12,13,14	•	•		
4.	<u>Server Security – loT</u> support sites must implement regular monitoring and continual improvement of site security and server configurations to acceptably reduce the impact of vulnerabilities. ³⁵ Perform generally accepted eneration tests at least annually.	•	•		
5.	Email Security — lo I vendors using email communication must adopt email authentication protocols to help prevent spear phishing and maximize email deliverability by adopting generally accepted policies, such as SFP, DKM and DMARS, for all consumer security and privacy related communications. If	•	•		
	Email Security – Within 90 days of publishing a DMARC policy implement a reject policy, helping ISPs and receiving networks to reject email which fail email authentication.	0	0		





What's Next?

- November 18 IoT Trust Summit, Washington DC. https://otalliance.org/news-events/upcoming-events
- · Consolidate feedback, release initial framework.
- · Validate global considerations.
- Pursue a voluntary code of conduct (some companies already using it as vendor "checklist"), evolving to an enforceable code of conduct.
- · Develop criteria as basis for a certification program.
- · Expand collaboration with other organizations.



More Information

- Submit Comments We will review all! https://otalliance.org/iot-trust-framework-submission
- Join the working group https://otalliance.org/system/files/files/member/documents/ota_ iot_membership_application-2015v2.pdf
- Working group meeting in Washington, D.C. November 18 https://otalliance.org/news-events/upcoming-events
- Contact us for more info: https://otalliance/org/lot
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