

Security Working Group

A group dedicated to improve EdgeX security through architecture, documentation, code review, vulnerability management.

Security working group has been dissolved and is now part of the [Core Working Group](#)

Key Working Group Facts

Working Group Creation Date: June 2, 2017

Working Group Chair: [Bryon Nevis](#) (Intel) - Past Chairs: [Colin Hutchinson](#) (Kong), Malini Bhandaru (VMware), Tingyu Zeng (Dell), [Doug Gardner](#) (ADI), [David Ferriera](#) (ForgeRock)

Dissolution Date: June 23, 2023

Security Issue Reporting Process:

- Send private email to: security-issues@lists.edgexfoundry.org
 - TSC Ratified Process: [EdgeX Process for Addressing Security Issues-v5.pdf](#). (note: use above email address for reporting)
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Mailing List

- Security team's mail alias: edgex-tsc-security@lists.edgexfoundry.org
 - To subscribe or unsubscribe via the World Wide Web, visit: <https://lists.edgexfoundry.org/g/EdgeX-TSC-Security>
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Meeting Minutes

- June 14, 2023: Permanently cancelled. EdgeX security working group is now part of the [Core Working Group](#)
- June 7, 2023: Cancelled for Napa release planning meeting
- May 31, 2023: Cancelled for Napa Pre-wire
- May 24, 2023: Cancelled
- May 17, 2023: [Agenda 2023-05-17 \(pdf\)](#): [Meeting Recording](#)
- May 10, 2023: [Agenda 2023-05-10 \(pdf\)](#): [Meeting Recording](#)
- May 3, 2023: Cancelled
- April 26, 2023: Cancelled
- April 19, 2023: [Agenda 2023-04-19 \(pdf\)](#): [Meeting Recording](#)
- April 12, 2023: [Agenda 2023-04-12 \(pdf\)](#): [Meeting Recording](#)
- April 5, 2023: [Agenda 2023-04-05 \(pdf\)](#): [Meeting Recording](#)
- March 29, 2023: Cancelled
- March 22, 2023: [Agenda 2023-03-22 \(pdf\)](#): [Meeting Recording](#)
- March 15, 2023: Cancelled
- March 8, 2023: [Agenda 2023-03-08 \(pdf\)](#): [Meeting Recording](#)
- March 1, 2023: Cancelled
- February 22, 2023: Cancelled
- February 15, 2023: [Agenda 2023-02-15 \(pdf\)](#): [Meeting Recording](#)
- February 8, 2023: [Agenda 2023-02-08 \(pdf\)](#): [Meeting Recording](#)
- February 1, 2023: Cancelled (no updates)
- January 25, 2023: Cancelled (no updates)
- January 18, 2023: [Agenda 2023-01-18 \(pdf\)](#): [Meeting Recording](#)
- January 11, 2023: [Agenda 2023-01-11 \(pdf\)](#): [Meeting Recording](#)
- January 4, 2023: [Agenda 2023-01-04 \(pdf\)](#): [Meeting Recording](#)
- December 28, 2022: Cancelled
- December 21, 2022: Cancelled
- December 14, 2022: [Agenda 2022-12-14 \(pdf\)](#): [Meeting Recording](#)
- December 7, 2022: Cancelled
- November 30, 2022: [Agenda 2022-11-30 \(pdf\)](#): [Meeting Recording](#). OpenZiti discussion.
- November 23, 2022: Cancelled (Thanksgiving week in US)
- November 16, 2022: Preempted for Minnesota planning conference: [Nov 14-17, 2022: Minnesota Planning Conference](#)
- November 9, 2022: [Agenda 2022-11-09 \(pdf\)](#): [Meeting Recording](#)
- November 2, 2022: Cancelled
- October 26, 2022: Cancelled
- October 19, 2022: Cancelled
- October 12, 2022: [Agenda 2022-10-12 \(pdf\)](#): [Meeting Recording](#)
- October 5, 2022: Cancelled (follow suit for TSC cancellation)
- September 28, 2022: [Agenda 2022-09-28 \(pdf\)](#): [Meeting Recording](#)
- September 21, 2022: Cancelled (please review IOTech's threat model PR)

- September 14, 2022: [Agenda 2022-09-14 \(pdf\)](#); [Meeting Recording](#)
- September 7, 2022: [Agenda 2022-09-07 \(pdf\)](#); [Meeting Recording](#)
- August 31, 2022: [Agenda 2022-08-31 \(pdf\)](#); [Meeting Recording](#)
- August 24, 2022: Cancelled (no topics for today)
- August 17, 2022: [Agenda 2022-08-17 \(pdf\)](#); [Meeting Recording](#)
- August 10, 2022: Cancelled (chair on vacation)
- August 3, 2022: [Agenda 2022-08-03 \(pdf\)](#); [Meeting Recording](#)
- July 27, 2022: Cancelled (no topics for today)
- July 20, 2022: Cancelled (no topics for today)
- July 13, 2022: [Agenda 2022-07-13 \(pdf\)](#); [Meeting Recording](#)
- July 6, 2022: Cancelled due to conflict in chair's schedule
- June 29, 2022: [Agenda 2022-06-29 \(pdf\)](#); [Meeting Recording](#)
- June 22, 2022: Cancelled due to chair's planned vacation
- June 15, 2022: [Agenda 2022-06-15 \(pdf\)](#); [Meeting Recording](#)
- June 8, 2022: Cancelled due to conflict in chair's schedule
- June 1, 2022: Cancelled due to conflict in chair's schedule
- May 25, 2022: [Agenda 2022-05-25 \(pdf\)](#); [Meeting Recording](#)
- May 18, 2022: Cancelled for Levski planning conference
- May 11, 2022: [Agenda 2022-05-11 \(pdf\)](#); [Meeting Recording](#) - guest speaker Phillip Griffiths & Clint Dovholuk from NetFoundry
- May 4, 2022: Cancelled due to lack of quorum
- April 27, 2022: [Agenda 2022-04-27 \(pdf\)](#); [Meeting Recording](#)
- April 20, 2022: Cancelled for Levski prewire meeting
- April 13, 2022: [Agenda 2022-04-13 \(pdf\)](#); [Meeting Recording](#)
- April 6, 2022: [Agenda 2022-04-06 \(pdf\)](#); [Meeting Recording](#)
- March 30, 2022: [Agenda 2022-03-30 \(pdf\)](#); [Meeting Recording](#)
- March 23, 2022: Cancelled
- March 16, 2022: [Agenda 2022-03-16 \(pdf\)](#); [Meeting Recording](#)
- March 9, 2022: [Agenda 2022-03-09 \(pdf\)](#); [Meeting Recording](#)
- March 2, 2022: [Agenda 2022-03-02 \(pdf\)](#); [Meeting Recording](#)
- February 23, 2022: [Agenda 2022-02-23 \(pdf\)](#); [Meeting Recording](#)
- February 16, 2022: Cancelled due to lack of discussion topics
- February 9, 2022: Cancelled due to lack of discussion topics
- February 2, 2022: [Agenda 2022-02-02 \(pdf\)](#); [Meeting Recording](#)
- January 26, 2022: Cancelled due to meeting conflict
- January 19, 2022: [Agenda 2022-01-19 \(pdf\)](#); [Meeting Recording](#)
- January 12, 2022: Cancelled due to lack of agenda topics; will meet next week
- January 5, 2022: [Agenda 2022-01-05 \(pdf\)](#); [Meeting Recording](#)
- December 29, 2021: Cancelled for holidays
- December 22, 2021: Cancelled for holidays
- December 15, 2021: [Agenda 2021-12-15 \(pdf\)](#); [Meeting Recording](#)
- December 8, 2021: [Agenda 2021-12-08 \(pdf\)](#); [Meeting Recording](#)
- December 1, 2021: [Agenda 2021-12-01 \(pdf\)](#); [Meeting Recording](#)
- November 24, 2021: Cancelled for holidays
- November 17, 2021: [Agenda 2021-11-17 \(pdf\)](#); [Meeting Recording](#)
- November 10, 2021: [Agenda 2021-11-10 \(pdf\)](#); [Meeting Recording](#)
- November 3, 2021: Cancelled. See [Kamakura Planning](#)
- October 27, 2021: Cancelled
- October 20, 2021: [Agenda 2021-10-20 \(pdf\)](#); [Meeting Recording](#)
- October 13, 2021: [Agenda 2021-10-13 \(pdf\)](#); [Meeting Recording](#)
- October 6, 2021: [Agenda 2021-10-06 \(pdf\)](#); [Meeting Recording](#)
- September 29, 2021: [Agenda 2021-09-29 \(pdf\)](#); [Meeting Recording](#)
- September 22, 2021: Cancelled
- September 15, 2021: [Agenda 2021-09-15 \(pdf\)](#); [Meeting Recording](#)
- September 8, 2021: [Agenda 2021-09-08 \(pdf\)](#); [Meeting Recording](#)
- September 1, 2021: [Agenda 2021-09-01 \(pdf\)](#); [Meeting Recording](#)
- August 25, 2021: [Agenda 2021-08-25 \(pdf\)](#); [Meeting Recording](#)
- August 18, 2021: [Agenda 2021-08-18 \(pdf\)](#); [Meeting Recording](#)
- August 11, 2021: Cancelled
- August 4, 2021: [Agenda 2021-08-04 \(pdf\)](#); [Meeting Recording](#)
- July 28, 2021: [Agenda 2021-07-28 \(pdf\)](#); [Meeting Recording](#)
- July 21, 2021: [Agenda 2021-07-14 \(pdf\)](#); [Meeting Recording](#)
- July 14, 2021: [Agenda 2021-07-04 \(pdf\)](#); [Meeting Recording](#)
- July 7, 2021: Cancelled
- June 30, 2021: Cancelled
- June 23, 2021: Cancelled due to Jakarta virtual F2f
- June 16, 2021: [Security WG Meeting 6_16_2021.docx](#); [Meeting Recording](#)
- June 9, 2021: [Security WG Meeting 6_9_2021.docx](#); [Meeting Recording](#) - includes demo of LFX Security from David Deal (LF)
- June 2, 2021: [Security WG Meeting 06-02-2021](#); [Meeting Recording](#)
- May 26, 2021: [Security WG Meeting 05-26-2021](#); [Meeting Recording](#)
- May 19, 2021: [Security WG Meeting 05-19-2021](#); [Meeting Recording](#)
- May 12, 2021: [Security WG Meeting 05-12-2021](#); [Meeting Recording](#)
- May 5, 2021: [Security WG Meeting 05-05-2021](#); [Meeting Recording](#)
- April 28, 2021: [Security WG Meeting 04-28-2021](#); [Meeting Recording](#)
- April 21, 2021: [Meeting Recording](#)
- April 14, 2021: [Security WG Meeting 4-14-2021](#); [Meeting Recording](#)
- April 7, 2021: [Security WG Meeting 4-7-2021](#); [Meeting Recording](#)
- March 31, 2021: [Security WG Meeting 03-31-2021](#); [Meeting Recording](#)
- March 24, 2021: [Security WG Meeting 03-24-2021](#); [Meeting Recording](#)
- March 17, 2021: [Security WG Meeting 03-17-2021](#); [Meeting Recording](#)

- March 10, 2021: [Security WG Meeting 03-10-2021; Meeting Recording](#)
- March 3, 2021: [Security WG Meeting 03-03-2021; Meeting Recording](#)
- February 24, 2021: [Security WG Meeting 02-24-2021; Meeting Recording](#)
- February 17, 2021: [Meeting Recording](#)
- February 10, 2021: [Security WG Meeting 2-10-2021; Meeting Recording](#)
- February 3, 2021: [Security WG Meeting 2-3-2021; Meeting Recording](#)
- January 27, 2021: [No meeting](#)
- January 20, 2021: [Security WG Meeting 01-20-2021; Meeting Recording](#)
- January 13, 2021: [Security WG Meeting 01-13-2021; Meeting Recording](#)
- January 6, 2021: [Security WG Meeting 01-06-2021; Meeting Recording](#)
- December 16, 2020: [Security WG Meeting 16-12-2020; Meeting Recording](#)
- December 9, 2020: [Security WG Meeting 9-12-2020; Meeting Recording](#)
- December 2, 2020: [Security WG Meeting 2-12-2020; Meeting Recording](#)
- November 18, 2020: [Security WG Meeting 11-18-2020 Meeting Recording](#)
- November 5, 2020: [Meeting Recording](#) (Extra meeting to develop Security tasks/priority list for Ireland)
- November 4, 2020: [Meeting Recording](#)
- October 28, 2020: [Meeting Recording](#)
- October 21, 2020: [Security WG Meeting 10-21-2020; Meeting Recording](#)
- September 30, 2020: [Security WG Meeting 09-30-2020; Meeting Recording](#)
- September 23, 2020: [Security WG Meeting 09-23-2020; Meeting Recording](#)
- September 9, 2020: [Security WG Meeting 09-09-2020; Meeting Recording](#)
- September 2, 2020: [Security WG Meeting 09-02-2020; Meeting Recording](#)
- August 26, 2020: [Security WG Meeting 08-26-2020; Meeting Recording](#)
- August 19, 2020: [Security WG Meeting 08-19-2020; Meeting Recording](#)
- August 12, 2020: [Security WG Meeting 08-12-2020; Meeting Recording](#)
- August 5, 2020: [Security WG Meeting 08-05-2020; Meeting Recording](#)
- July 29, 2020: [Security WG Meeting 07-29-2020; Meeting Recording](#)
- July 22, 2020: [Security WG Meeting 07-22-2020; Meeting Recording](#)
- July 15, 2020: [Security WG Meeting 07-15-2020; Meeting Recording](#)
- July 8, 2020: [Security WG Meeting 07-08-2020; Meeting Recording](#)
- June 24, 2020: [Security WG Meeting 06-24-2020; Meeting Recording](#)
- June 17, 2020: [Meeting Minutes; Meeting Recording](#)
- June 10, 2020: [Meeting Minutes; Meeting Recording](#) (Password: 8A^&HL69)
- June 3, 2020: [Meeting Minutes; Meeting Recording](#) (Password: 1Z=Cl?w^)
- May 20, 2020: [Meeting Minutes; Meeting Recording](#) (Password: 1D%7\$j&2)
- May 13, 2020: [Meeting Minutes; Meeting Recording](#) (Password: 6U#=Q%?^)
- May 12, 2020: [Edgex-Arm integration kick-off meeting](#)
- April 22, 2020: [Meeting Minutes; Meeting Recording](#) (Password: 6l*?\$%05)
- April 15, 2020: [Meeting Minutes; Meeting Recording](#) (Access Password: y6&2?H4h)
- April 8, 2020: [Meeting Minutes; Meeting Recording](#)
- March 25, 2020: [Meeting Minutes; Meeting Recording](#)
 - [Hanoi Release](#) (all - for latest update of Hanoi Release Planning doc, please go [here](#))
- March 18, 2020: [Meeting Minutes; Meeting Recording](#)
- March 11, 2020: [Meeting Minutes; Meeting Recording](#)
- March 4, 2020: [Meeting Minutes; Meeting Recording](#)
 - [Security Input to EdgeX 2.0 API](#)
- February 26, 2020: [Meeting Minutes; Meeting Recording](#)
- February 19, 2020: [Meeting Minutes; Meeting Recording](#)
- February 12, 2020: [Meeting Minutes; Meeting Recording](#)
- February 5, 2020: [Meeting Minutes; Meeting Recording](#)
 - [Proposal to secure API V2 \(by Bryon Nevis\) : EdgeX API 2.0 security](#)
- January 29, 2020: [Meeting Minutes; Meeting Recording](#)
- January 22, 2020: [Meeting Minutes; Meeting Recording](#)
- January 15, 2020: [Meeting Minutes; Meeting Recording](#)
- January 8, 2020: [Meeting Minutes; Meeting Recording](#)
- December 18, 2019: [Meeting Minutes; Meeting Recording](#)
- December 11, 2019: [Meeting Minutes; Meeting Recording](#)
- December 4, 2019: [Meeting Minutes; Meeting Recording](#)
- November 20, 2019: [Meeting Minutes; Meeting Recording](#)
- November 13, 2019: [Meeting Minutes; Meeting Recording](#)
- October 30, 2019: [Meeting cancelled](#)
- October 23, 2019: [Meeting Minutes; Meeting Recording](#)
- October 16, 2019: [Meeting Minutes; Meeting Recording](#)
- October 2, 2019: [Meeting Minutes; Meeting Recording](#)
- September 25, 2019: [Meeting Minutes; Meeting Recording](#)
- September 18, 2019: [Meeting Minutes; Meeting Recording](#)
- September 11, 2019: [Meeting Minutes; Meeting Recording](#)
- September 4, 2019: [Meeting Minutes; Meeting Recording](#)
- August 28, 2019: [Meeting Minutes; Meeting Recording](#)
- August 14, 2019: [Meeting Recording](#)
- August 7, 2019: [Meeting Minutes; Meeting Recording](#)
- July 24, 2019: [Meeting Minutes; Meeting Recording](#)
- July 17, 2019: [Meeting Minutes;SAST Slides;Meeting Recording](#)
- July 10, 2019: [Meeting Minutes; Meeting Recording](#)
- June 26, 2019: [Meeting Minutes Meeting Recording](#)
- June 19, 2019: [Meeting Minutes; Meeting Recording](#)
- June 12, 2019: [Meeting Minutes; Meeting Recording](#)
- June 5, 2019: [Meeting Minutes; Meeting Recording](#)
- May 29, 2019: [Meeting Minutes; Meeting Recording](#)

- May 22, 2019: [Meeting Minutes](#); [Meeting Recording](#)
- May 15, 2019: [Meeting Minutes](#); [Meeting Recording](#)
- May 8, 2019: [Meeting Recording](#)
- April 24, 2019: [Meeting Recording](#)
- April 17, 2019: [Meeting Minutes](#); [EdgeX Process for Addressing Security Issues-v5.pdf](#); [EdgeX Process for Addressing Security Issues-v5.docx](#); [Protecting EdgeX Secrets-v7.pdf](#); [Protecting EdgeX Secrets-v7.docx](#); [Meeting Recording](#)
- April 10, 2019: [Meeting Minutes](#); [Protecting EdgeX Secrets-v7.pdf](#); [Protecting EdgeX Secrets-v7.docx](#); [Meeting Recording](#)
 - Intel (Bryon and Jim) roadmap doc to explore; <https://docs.google.com/presentation/d/17W7MghqrZUu5sIHnS4F6GtOYkPWObJP-e9Tieh2qbRI/edit?pli=1#slide=id.p>
 - Threat Model: <https://github.com/bnevis-i/security-secret-store/pull/1>
 - Tingyu's design for Vault initialization program and Mongo init script: [Security Store Service for MongoDB microservice.docx](#)
- April 3, 2019: [Meeting Minutes](#); Documents covered and requesting review: [Protecting EdgeX Secrets-v6.pdf](#) [Protecting EdgeX Secrets-v6.docx](#) [EdgeX Process for Addressing Security Issues-v4.pdf](#); [EdgeX Process for Addressing Security Issues-v4.docx](#); [Meeting Recording](#)
 - Intel's Exploration of EdgeX security (Threat Modeling and what's next) presentation: https://docs.google.com/presentation/d/17W7MghqrZUu5sIHnS4F6GtOYkPWObJP-e9Tieh2qbRI/edit?pli=1#slide=id.g556c569946_0_6
 - Intel's Threat Model for Secret Store: <https://github.com/bnevis-i/security-secret-store/pull/1>
- March 27, 2019: [Meeting Minutes](#); [Meeting Recording](#); Documents reviewed: [Protecting EdgeX Secrets-v4.pdf](#) [EdgeX Process for Addressing Security Issues-v3.pdf](#)
- March 13 & 20th, 2019: Canceled
- March 6, 2019: [Minutes](#); [Meeting Recording](#)
- February 27, 2019: Canceled
- February 20, 2019: [Meeting Recording](#)
- February 13, 2019: Canceled
- February 6, 2019: Canceled
- January 30, 2019: [Meeting Recording](#)
- January 16, 2019: [Meeting Recording](#)
- January 9, 2019: [Meeting Recording](#)
- December 12, 2018: [Meeting Recording](#)
- December 5, 2018: [Slides](#) and [Meeting Recording](#)
- November 28, 2018: [Slides](#) and [Meeting Recording](#)
- November 21, 2018: Canceled
- November 14, 2018: [Slides](#) and [Meeting Recording](#)
- November 7, 2018: [Slides](#) and [Meeting Recording](#)
- October 31, 2018: Canceled
- October 10, 2018: [Slides](#) and [Meeting Recording](#)
- September 26, 2018: [Meeting Recording](#)
- September 19, 2018: [Meeting Recording](#)
- September 12, 2018: [Meeting Recording](#)
- September 5, 2018: [Meeting Recording](#)
- August 31, 2018: [Meeting Recording](#) (HRoT working session); Link to TPM specs and policies
- August 29, 2018: [Meeting Recording](#)
- August 22, 2018: [Meeting Recording](#)
- August 1, 2018: [Meeting Recording](#)
- July 25, 2018: [Meeting Recording](#)
- July 11, 2018: [Meeting Recording](#)
- June 27, 2018: [Meeting Recording](#)
- June 20, 2018: [Meeting Recording](#)
- June 13, 2018: [Meeting Recording](#)
- June 6, 2018: Canceled since F2F meeting is occurring this week.
- May 30, 2018: [Slides](#) and [Meeting Recording](#)
- May 23, 2018: [Slides](#) and [Meeting Recording](#)
- May 16, 2018: [Slides](#) and [Meeting Recording](#)
- May 9, 2018: [Slides](#) and [Meeting Recording](#)
- May 2, 2018: [Slides](#) and [Meeting Recording](#)
- April 25, 2018: Canceled
- April 18, 2018: Canceled
- April 11, 2018: [Slides](#) and [Meeting Recording](#)
- April 04, 2018: [Slides](#) and [Meeting Recording](#)
- March 28, 2018: Canceled
- March 21, 2018: [Slides](#) and [Meeting Recording](#)
- March 14, 2018: [Slides](#) and [Meeting Recording](#)
 - IIC Endpoint Security Best Practices Final Mar 2018 document: http://www.iiconsortium.org/pdf/Endpoint_Security_Best_Practices_Final_Mar_2018.pdf
 - Snapshot of [Secure Proxy + Authentication Options for EdgeX](#)
 - Snapshot of [EdgeX-simple-jwt-auth--DRAFT](#)
- March 7, 2018: [Slides](#) and [Meeting Recording](#)
- February 28, 2018: [Slides](#) and [Meeting Recording](#)
 - [a draft copy of Simple Auth Service \(.docx.odt format\)](#)
- February 21, 2018: [Slides](#) and [Meeting Recording](#)
- February 14, 2018: [Slides](#) and [Meeting Recording](#)
- February 7, 2018: [Slides](#) and [Meeting Recording](#)
- January 31, 2018: [Meeting Recording](#)
- January 24, 2018: [Slides](#) and [Meeting Recording](#)
- January 10, 2018: [Meeting Recording](#)
- January 3, 2018: [Slides](#) and [Meeting Recording](#)
- December 20, 2017: [Meeting Recording](#)
- December 13, 2017: [Slides](#) and [Meeting Recording](#)
- November 29, 2017: [Slides](#) and [Meeting Recording](#)
- November 15, 2017: [Slides](#) and [Meeting Recording](#)

- November 8, 2017: [Meeting Recording](#)
 - November 1, 2017: [Slides](#) and [Meeting Recording](#)
 - October 25, 2017: [Slides](#) and [Meeting Recording](#)
 - October 11, 2017: [Slides](#) and [Meeting Recording](#)
 - September 27, 2017: [Slides](#) and [Meeting Recording](#)
 - September 20, 2017: [Slides](#) and [Meeting Recording](#)
 - September 13, 2017: [Slides](#) and [Meeting Recording](#)
 - September 6, 2017 Meeting - We reviewed the final outcome of the F2F meeting. Please click on this link to see the outcome and final slide deck: [Link](#)
 - August 29 + 30: F2F Meeting - See [29 and 30 August 2017: Palo Alto, CA](#)
 - August 23: [Meeting Recording](#)
 - August 16, 2017: [Slides](#)
 - August 9, 2017: [Slides](#)
 - July 7, 2017: [Slides](#); [Notes and Actions](#); [Meeting Recording](#)
 - June 1-2, 2017: [Slides](#)
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Documents

- [Vault master key protection-DRAFT-v0.5.pdf](#)
- [Hardware-based Secure Storage Design - DRAFT](#)
 - Ongoing work in online document @ <https://docs.google.com/document/d/1MsTNdwtZp3zA-nPhCC3COakL3e5mrhJuFByy6ja5OxU/edit?ts=5c1a5e4>. Request access at this link.
- [EdgeX Security Roadmap for Delhi, Edinburgh, Fuji and beyond](#)
- [Security Working Group Google Drive Folder](#)
- [Consolidated Feature Backlog Document](#)
- [FuseSecurityRequirements-Jan2017.docx](#)