**MIDWEST
RELIABILITY
ORGANIZATION**

Meeting Agenda
Security Advisory Council (SAC)

November 09, 2022

10:00 am to 3:30 pm central

MRO Corporate Offices, King Conference Center
St. Paul, MN & Webex

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VIDEO AND AUDIO RECORDING

Please note that Midwest Reliability Organization (MRO) may make a video and/or an audio recording of this organizational group meeting for the purposes of making this information available to board members, members, stakeholders and the general public who are unable to attend the meeting in person.

By attending this meeting, I grant MRO:

1. Permission to video and/or audio record the meeting including me; and
2. The right to edit, use, and publish the video and/or audio recording.
3. I understand that neither I nor my employer has any right to be compensated in connection with the video and/or audio recording or the granting of this consent.

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MRO ORGANIZATIONAL GROUP GUIDING PRINCIPLES

These MRO Organizational Group Guiding Principles complement charters. When the Principles are employed by members, they will support the overall purpose of the organizational groups.

<u>Organizational Group Members should:</u>

1. Make every attempt to attend all meetings in person or via webinar.

2. Be responsive to requests, action items, and deadlines.

3. Be active and involved in all organizational group meetings by reviewing all pre-meeting materials and being focused and engaged during the meeting.

4. Be self-motivating, focusing on outcomes during meetings and implementing work plans to benefit MRO and MRO's registered entities.

5. Ensure that the organizational group supports MRO strategic initiatives in current and planned tasks.

6. Be supportive of Highly Effective Reliability Organization (HEROTM) principles.

7. Be supportive of proactive initiatives that improve effectiveness and efficiency for MRO and MRO's registered entities.

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MRO SECURITY ADVISORY COUNCIL Q4 MEETING AGENDA

Agenda Item

1   Call to Order and Determination of Quorum
Clayton Whitacre, Security Advisory Council Chair

   a. Determination of Quorum and Introductions
   b. Robert's Rules of Order

2   Standards of Conduct and Antitrust Guidelines
Clayton Whitacre, Security Advisory Council Chair

3   Diversity Initiative
Julie Peterson, Assistant Corporate Secretary and Senior Counsel, MRO

4   2022 Security Conference Debrief & 2023 Conference Plan
Clayton Whitacre, Security Advisory Council Chair

5   HERO Outreach Effort Discussion
Steen Fjalstad, Director of Security, MRO

6   MRO Representatives on NERC Subgroups - Written Reports
Steen Fjalstad, Director of Security, MRO

   a. NERC Supply Chain Working Group (SCWG) – Tony Eddleman
   b. NERC Security Integration and Technology Enablement Subcommittee (SITES) – Alan Kloster

7   Security Advisory Council Threat Forum (SACTF) Update
Brett Lawler, MRO SACTF Chair

   a. SACTF Threat Call and Annual Statistics
   b. Work Plan
   c. SACTF Open Source Information Sharing Document

8   Regional Security Risk Assessment Overview
Matt Szyda, MRO SAC Member

Lunch 12:00 p.m.

9   SAC 2022 Work Plan
Clayton Whitacre, Security Advisory Council Chair

   a. Review Action Items
   b. Draft 2023 Work Plan

10   MRO Regional Risk Assessment Overview
Mark Tiemeier, Principal Technical Advisor, MRO

11   Action Item Review
MRO SAC Staff Support

12   Other Business and Adjourn
Clayton Whitacre, Security Advisory Council Chair

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AGENDA 1

Call to Order and Determination of Quorum

a. Determination of Quorum
Clayton Whitacre, MRO SAC Chair

Name	Role	Company	Term
Clayton Whitacre	**Chair**	Great River Energy	12/31/22
Michael Meason	**Vice-Chair**	Western Farmers Electric Cooperative	12/31/23
Brett Lawler	Member	Xcel Energy	12/31/23
Chad Wasinger	Member	Sunflower Electric Power Cooperative	12/31/23
Daniel Graham	Member	Basin Electric Power Cooperative	12/31/24
Douglas Peterchuck	Member	Omaha Public Power District	12/31/24
Jamey Sample	Member	Xcel Energy	12/31/22
Jason Nations	Member	Oklahoma Gas and Electric	12/31/24
Justin Haar	Member	Minnkota Power Cooperative	12/31/23
Laura Liston	Member	Alliant Energy Corporation	12/31/22
Matthew Szyda	Member	Manitoba Hydro	12/31/23
Norma Browne	Member	Ameren	12/31/24
Sam Ellis	Member	Southwest Power Pool, Inc.	12/31/22
Tim Anderson	Member	Dairyland Power Cooperative	12/31/22
Tony Eddleman	Member	Nebraska Public Power District	12/31/22

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AGENDA 1

Call to Order and Determination of Quorum
b.   Robert's Rules of Order
Clayton Whitacre, MRO SAC Chair

Parliamentary Procedures. Based on Robert's Rules of Order, Newly Revised, Tenth Edition

Establishing a Quorum. In order to make efficient use of time at MRO organizational group meetings, once a quorum is established, the meeting will continue, however, no votes will be taken unless a quorum is present at the time any vote is taken.

Motions. Unless noted otherwise, all procedures require a "second" to enable discussion.

When you want to…	Procedure	Debatable	Comments
Raise an issue for discussion	Move	Yes	The main action that begins a debate.
Revise a Motion currently under discussion	Amend	Yes	Takes precedence over discussion of main motion. Motions to amend an amendment are allowed, but not any further. The amendment must be germane to the main motion, and cannot reverse the intent of the main motion.
Reconsider a Motion already resolved	Reconsider	Yes	Allowed only by member who voted on the prevailing side of the original motion. Second by anyone.
End debate	Call for the Question *or* End Debate	No	If the Chair senses that the committee is ready to vote, he may say "if there are no objections, we will now vote on the Motion." Otherwise, this motion is not debatable and subject to majority approval.
Record each member's vote on a Motion	Request a Roll Call Vote	No	Takes precedence over main motion. No debate allowed, but the members must approve by majority.
Postpone discussion until later in the meeting	Lay on the Table	Yes	Takes precedence over main motion. Used only to postpone discussion until later in the meeting.
Postpone discussion until a future date	Postpone until	Yes	Takes precedence over main motion. Debatable only regarding the date (and time) at which to bring the Motion back for further discussion.

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Remove the motion for any further consideration	Postpone indefinitely	Yes	Takes precedence over main motion. Debate can extend to the discussion of the main motion. If approved, it effectively "kills" the motion. Useful for disposing of a badly chosen motion that cannot be adopted or rejected without undesirable consequences.
Request a review of procedure	Point of order	No	Second not required. The Chair or secretary shall review the parliamentary procedure used during the discussion of the Motion.

Notes on Motions

Seconds. A Motion must have a second to ensure that at least two members wish to discuss the issue. The "seconder" is not required to be recorded in the minutes. Neither are motions that do not receive a second.

Announcement by the Chair. The chair should announce the Motion before debate begins. This ensures that the wording is understood by the membership. Once the Motion is announced and seconded, the Committee "owns" the motion, and must deal with it according to parliamentary procedure.

Voting

Voting Method	When Used	How Recorded in Minutes
	When the Chair senses that the Committee is substantially in agreement, and the Motion needed little or no debate. No actual vote is taken.	The minutes show "by unanimous consent."
Vote by Voice	The standard practice.	The minutes show Approved or Not Approved (or Failed).
Vote by Show of Hands (tally)	To record the number of votes on each side when an issue has engendered substantial debate or appears to be divisive. Also used when a Voice Vote is inconclusive. (The Chair should ask for a Vote by Show of Hands when requested by a member).	The minutes show both vote totals, and then Approved or Not Approved (or Failed).
Vote by Roll Call	To record each member's vote. Each member is called upon by the Secretary, and the member indicates either "Yes," "No," or "Present" if abstaining.	The minutes will include the list of members, how each voted or abstained, and the vote totals. Those members for which a "Yes," "No," or "Present" is not shown are considered absent for the vote.

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Notes on Voting.

Abstentions. When a member abstains, he/she is not voting on the Motion, and his/her abstention is not counted in determining the results of the vote. The Chair should not ask for a tally of those who abstained.

Determining the results. A simple majority of the votes cast is required to approve an organizational group recommendations or decision.

"Unanimous Approval." Can only be determined by a Roll Call vote because the other methods do not determine whether every member attending the meeting was actually present when the vote was taken, or whether there were abstentions.

Electronic Votes – For an e-mail vote to pass, the requirement is a simple majority of the votes cast during the time-period of the vote as established by the Committee Chair.

Majorities. Per Robert's Rules, as well as MRO Policy and Procedure 3, a simple majority (one more than half) is required to pass motions

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AGENDA 2

Standards of Conduct and Antitrust Guidelines
Clayton Whitacre, MRO SAC Chair

Standards of Conduct Reminder:

Standards of Conduct prohibit MRO staff, committee, subcommittee, and task force members from sharing non-public transmission sensitive information with anyone who is either an affiliate merchant or could be a conduit of information to an affiliate merchant.

Antitrust Reminder:

Participants in Midwest Reliability Organization meeting activities must refrain from the following when acting in their capacity as participants in Midwest Reliability Organization activities (i.e. meetings, conference calls, and informal discussions):

- Discussions involving pricing information; and
- Discussions of a participants marketing strategies; and
- Discussions regarding how customers and geographical areas are to be divided among competitors; and
- Discussions concerning the exclusion of competitors from markets; and
- Discussions concerning boycotting or group refusals to deal with competitors, vendors, or suppliers.
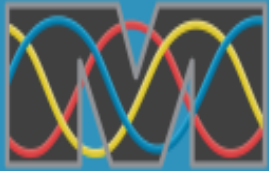
AGENDA 3

Diversity Initiative
Steen Fjalstad, Director of Security, MRO

Action
Information

Report
Steen Fjalstad will lead this discussion during the meeting.

MRO Organizational Groups

Diversity Initiative

Types of Diversity

Inherent Diversity

- Race
- Ethnicity
- Age
- National origin
- Sexual orientation
- Cultural identity
- Assigned sex
- Gender identity

Acquired Diversity

- Expertise (e.g., engineering, operations, security)
- Experience (e.g., executive, technical)
- Geography (e.g., US, Canada, north, south)
- Company (e.g., no more than two members from the same company per group)

The Value of Diverse Teams

- **More focused on facts**
  - More likely to constantly reexamine facts and remain objective
  - Can lead to improved and more accurate group thinking

- **Facts are processed more carefully**
  - Considering the perspective of an outsider can result in improved decision-making and results

- **More innovative**
  - Diversity boosts intellectual potential
  - Conformity discourages innovative thinking

SOURCE: https://hbr.org/2016/11/why-diverse-teams-are-smarter

Be an MRO Diversity Ambassador

- **Help us reach a wider pool of applicants**
  - Share MRO LinkedIn posts with your network
  - Discuss and share the request for nominations within your organizations

- **Participation is a developmental opportunity**

- **Nominate and elect diverse candidates**

Nominations & Elections

- **Nominations period will open September 12, 2022**

- **Organizational Group Membership Recommendations made during Q4 Meetings**

Thank you!

Questions?

Contact
Julie Peterson
MRO Assistant Corporate Secretary and Senior Counsel
julie.peterson@mro.net

AGENDA 4

2022 Security Conference Debrief & 2023 Conference Plan
Clayton Whitacre, MRO SAC Chair

Action
Discussion

Report
Chair Whitacre will lead the discussion during the meeting.

AGENDA 5

HERO Outreach Effort Discussion
Steen Fjalstad, Director of Security, MRO

Action
Discussion

Report
Steen Fjalstad will lead the discussion during the meeting.

AGENDA 6

MRO Representative on NERC Subgroups – Written Reports
a.   NERC Supply Chain Working Group (SCWG)
Tony Eddleman, NERC SCWG Representative

Action
Discussion

Report
The SCWG reports to the NERC Reliability and Security Technical Committee (RSTC). SCWG meets monthly on the third Monday of each month at 12:00 p.m. (central time), except for the months of January, February, and June. Due to holidays in January and February, SCWG meets on the second Monday at 12:00 p.m. central time. The new Federal holiday Juneteenth required the June meeting to be rescheduled to Monday, June 27, 2022, at 11:00 a.m. (central time). The October meeting was rescheduled this year to October 24th due to conflicts with GridSecCon.

SCWG posted five Security Guidelines for comments.

   a. Supply Chain and Risk Considerations for Open Source Software
       i.   Team Lead: George Masters, Schweitzer Engineering Laboratory, Inc.
       ii. Posted for Comments: September 29 – November 11
   b. Secure Equipment Delivery
       i.   Team Lead: Wally Magda, WallyDotBiz LLC
       ii. Posted for Comments: September 13 – October 28
   c. Supply Chain Cyber Security Risk Management Lifecycle
       i.   Team Lead: Tom Alrich, Tom Alrich LLC
       ii. Posted for Comments: September 19 – November 3
   d. Vendor Risk Management Lifecycle
       i.   Team Lead: Tom Alrich, Tom Alrich LLC
       ii. Posted for Comments: September 19 – November 3
   e. Supply Chain Security Guidelines on Provenance
       i.   Team Lead: David Steven Jacoby, Boston Strategies International
       ii. Posted for Comments: September 29 – November 11

Comments on these guidelines will be reviewed at the November 21st SCWG meeting with a planned request for approval of the Security Guidelines at the December RSTC meeting.

Round two of the SCWG's review of Security Guidelines is starting and must be completed before the March RSTC meeting in 2023 to meet a requirement to incorporate metrics in Security Guidelines. The Security Guidelines below are included in round two:

   a. Vendor Identified Incident Response Measures
   b. Procurement Language
   c. Supply Chain Risks Related to Cloud Service Providers

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Sam Chanoski of Idaho National Laboratory (INL) provided a supply chain update at the July SCWG meeting. Wally Magda (WallyDotBiz LLC) is our vice-chair of SCWG and provided two updates at our August SCWG meeting. The first was an update on ISA99 WG14 - 62443 Security profiles for electric energy OT control systems. Wally's second update was a summary of a SITES presentation from Danish Saleem of National Renewable Energy Laboratory (NREL) on their assisted efforts towards a UL certification for device security of Distributed Energy Resources (DER). Scott Mix of Pacific Northwest National Laboratory provided a presentation at the October SCWG meeting on SD2-C2M2 emphasizing tools available for vendors to reduce their supply chain vulnerabilities.

SCWG has increased our coordination and discussions with our national labs to understand how our working group can better assist industry. We have added a standing agenda item for members to discuss Supply Chain Security related topics from other groups.

Areas of Focus

1. Maintain a roster of technical cyber and operations security experts.
2. Identify known supply chain risks and address though guidance documentation or other appropriate vehicles including input to NERC Alerts or the E-ISAC advisories.
3. Partner with National Laboratories to identify vulnerabilities in legacy equipment and develop mitigation practices.
4. Assist NERC staff by providing input and feedback associated with the development and execution of supply chain documents.
5. Coordinate with the North American Transmission Forum (NATF) and other industry groups as appropriate to ensure bulk power system (BPS) asset owner supply chain security requirements are clearly articulated.

Accomplishments

1. SCWG reviewed and posted for comments five Security Guidelines. SCWG had multiple review teams working concurrently.
2. SCWG increased discussions with national laboratories.

Challenges

1. Continuing to review and post for comments Security Guidelines.
2. Monitoring and staying current on Supply Chain developments in the federal government and industry.

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<h1 style="text-align:center;color:#2e75b6;">AGENDA 6</h1>

<p style="text-align:center;">MRO Representative on NERC Subgroups – Written Reports
b. NERC Security Integration and Technology Enablement Subcommittee (SITES)
Alan Kloster, NERC SITES Representative</p>

Action
Discussion

Report
Agenda

1. Whitepaper on *Cybersecurity for DERs and DER Aggregators* was presented to RSTC for comments on 9/13. RSTC comments were provided back and have been incorporated into the latest version. SITES group voted to move it forward to the RSTC for endorsement at the December RSTC meeting.
2. Whitepaper on *Zero Trust Security for Electric OT* draft was completed by the sub team. The SITES group voted to move it to the RSTC for comment at the December RSTC meeting.
3. Open recruiting for New Technology Enablement & Field Testing sub-team – still seeking more volunteers. If interested in volunteering, email Larry.Collier@nerc.com.

Additionally, there was no mention of the BES Operations in the Cloud sub-team on this monthly call. There was however a meeting of that sub-team later in the afternoon on October 26th. It appears that group is still discussing scope and developing a shared language/understanding of what they are trying to tackle and develop as I listened to part of that call.

The November monthly call is supposed to feature Daniel Arnold from the Grid Integration Group at the Lawrence Berkeley National Lab as a guest speaker. They have openings for more speakers at future SITES meetings.

Areas of Focus

1. Vendor presentations on new technology.
2. Joint team with SPIDERWG to develop a whitepaper on DER Aggregator cybersecurity.
3. Zero Trust whitepaper
4. BES Operations in the Cloud whitepaper

Accomplishments

1. The *Cybersecurity for DERs and DER Aggregators* whitepaper was updated and is ready to submit to the NERC RSTC for endorsement
2. A draft *Zero Trust for Electric OT* whitepaper has been completed and will be submitted to the RSTC for comment.

Challenges

1. Participation on new team being formed

<p style="text-align:center;"><strong style="color:#2e75b6;">CLARITY
Outreach & Engagement | <strong style="color:#d9a300;">ASSURANCE
Oversight & Risk Management | <strong style="color:#c0392b;">RESULTS
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2. Team leadership and holding scheduled meetings – More sub meetings recently canceled. Chair and vice-chair were not present for the meeting. Marc Child the RSTC rep led the meeting with Larry Collier from NERC.

Future Meetings
Wednesday November 16, 2022 11:00-12:00 Eastern via WebEx

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AGENDA 7

SACTF Threat Call

a. Threat Call Statistics

Brett Lawler, MRO SACTF Chair

Action

Information

Report

Threat Call Statistics

Date	Approved Registrants	Duration	Attendees
June 1, 2022	263	41 Minutes	66
June 8, 2022	263	21 Minutes	64
June 29, 2022	268	30 Minutes	67
July 6, 2022	268	8 Minutes	53
July 13, 2022	269	16 Minutes	57
July 20, 2022	269	21 Minutes	62
July 27, 2022	269	28 Minutes	64
August 3, 2022	272	14 Minutes	68
August 10, 2022	272	14 Minutes	62
August 17, 2022	276	18 Minutes	56
August 24, 2022	278	6 Minutes	54
August 31, 2022	278	14 Minutes	61
September 7, 2022	279	20 Minutes	66
September 14, 2022	280	27 Minutes	64
September 21, 2022	282	8 Minutes	62
September 28, 2022	283	19 Minutes	52
Averages	**273**	**19**	**61**
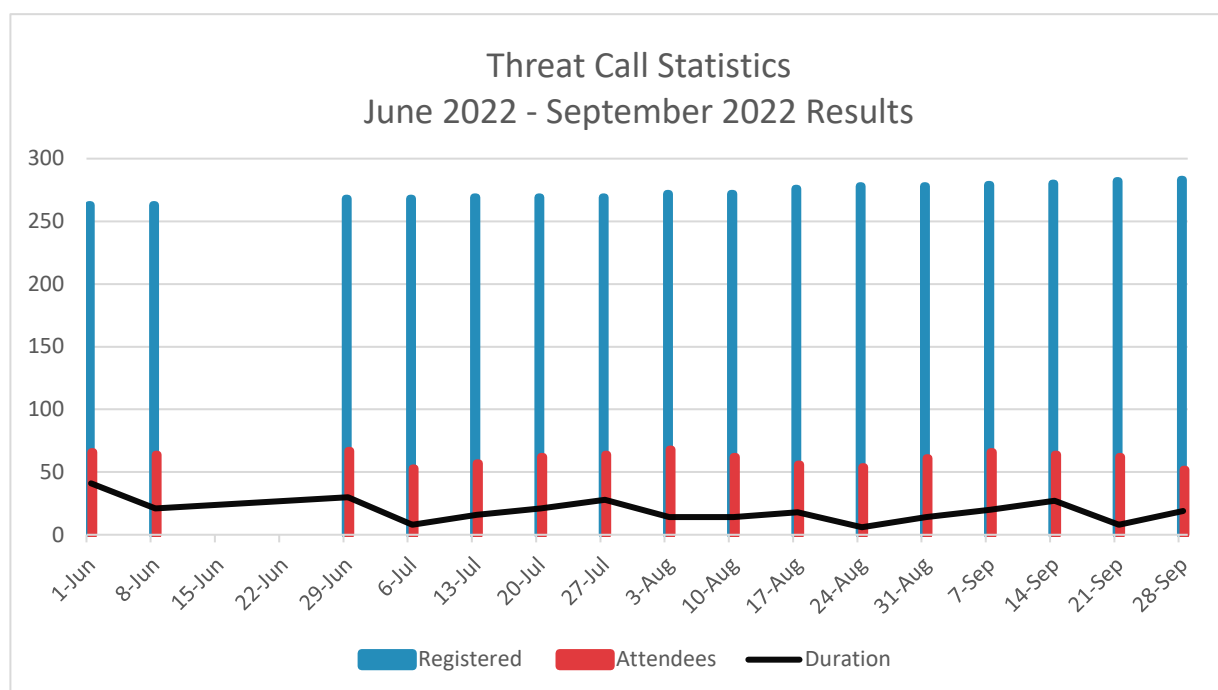
Threat Call Statistics
June 2022 - September 2022 Results

Annual Threat Call Statistics

Year	Average Registrants	Average Attendees	Average Duration	Number of Calls
2018	108	23	12 Minutes	8 Calls
2019	154	41	15 Minutes	48 Calls
2020	213	63	27 Minutes	50 Calls
2021	237	64	28 Minutes	48 Calls
2022	260	64	21 Minutes	36 Calls
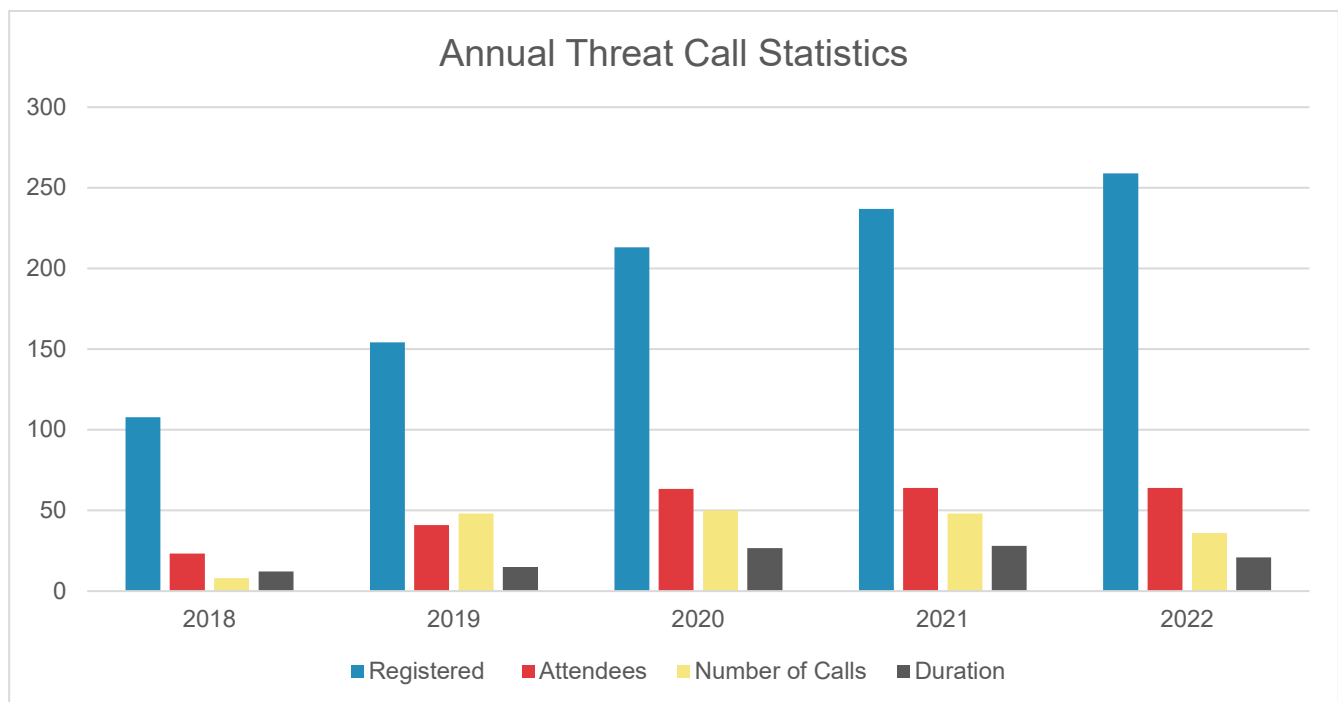
AGENDA 7

Security Advisory Council Threat Forum (SACTF) Update

b.   Work Plan

Brett Lawler, MRO SACTF Chair

Action

Discussion

Report

SACTF Chair Brett Lawler will lead this discussion during the meeting.

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Security Advisory Council Threat Forum (SACTF) Update
c.   Open Source Information Sharing Document
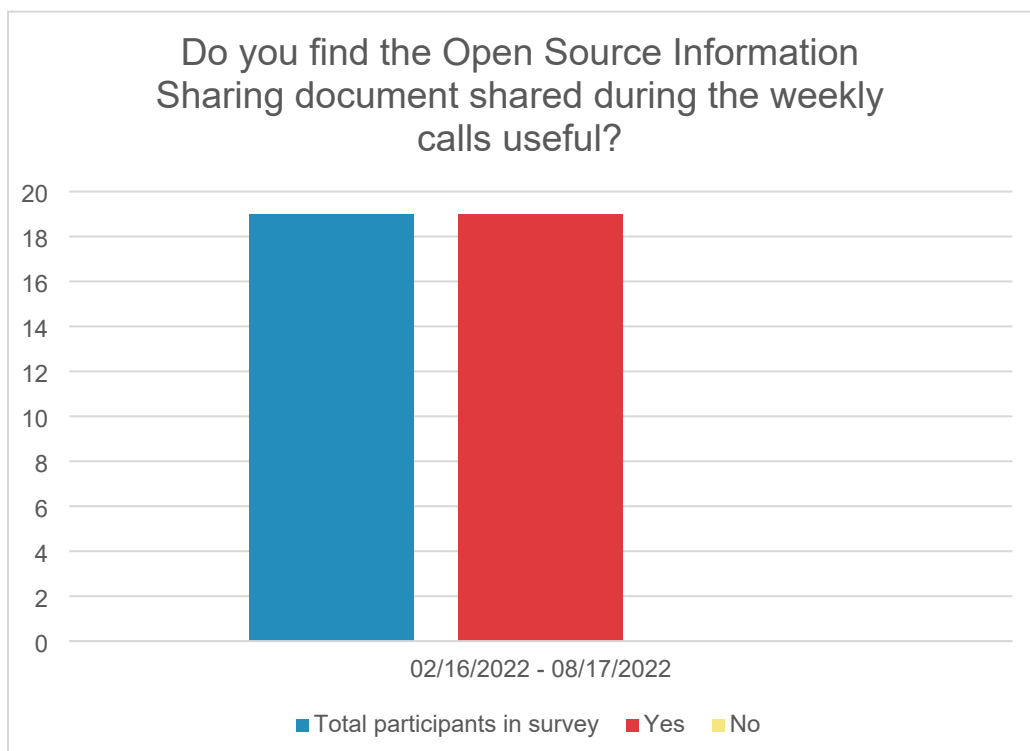*Brett Lawler, MRO SACTF Chair*

Action
Discussion

Report
SACTF Chair Brett Lawler will lead this discussion during the meeting.

SACTF Threat Call Survey Results

- Information from these calls is shared with need-to-know staff.
- I like to have the reminder it provides. The information is quite valuable.
- Occasionally useful: when I miss a call, or if there are a lot of links shared and I'm not able to open them quickly while on a Smartphone. But if they are too much to maintain, they are not essential.
- Great forum.
- The open source document will need to be made available as soon as possible after the call.
- It is useful if you missed something or want to share items with executives not attending the meeting. Would it be possible to have the document include all items regardless of sensitivity? Could it be hosted on a secured MRO site if it had additional information?
- Very useful!

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AGENDA 8

Regional Security Risk Assessment Overview
Matt Szyda, MRO SAC Member

Action
Discussion

Report
Matt Szyda will lead this discussion during the meeting.

AGENDA 8

AGENDA 9

SAC Work Plan Update
  a. Review Action Items
  b. Draft 2023 Work Plan
Clayton Whitacre, MRO SAC Chair

Action
Discussion

Report
Chair Whitacre will lead this discussion during the meeting.

AGENDA 10

MRO Regional Risk Assessment Overview
Mark Tiemeier, Principal Technical Advisor, MRO

Action
Discussion

Report
Mark Tiemeier will lead this discussion during the meeting.

AGENDA 11

Action Item Review
MRO SAC Staff Support

Action
Discussion

Report
MRO staff will lead this discussion during the meeting.

AGENDA 12

Other Business and Adjourn
Clayton Whitacre, MRO SAC Chair

Action
Discussion

Report
Chair Whitacre will lead this discussion during the meeting.