Insider Threat Tool Survey Results 2021

Open Source Insider Threat Information Sharing Group

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DM21-0718

Tool Survey Timeline

The Summer 2018 Insider Threat Tool Survey

- First distributed to the Open Source Insider Threat Information Sharing Group in March 2018.
- Responses were collected between March 13, 2018 and June 20, 2018.

The Summer 2019 Insider Threat Tool Survey

- Distributed with the instructions that respondents to the Summer 2018 survey did not need to take the Summer 2019 survey unless they had a new/different tool to review.
- Due to technical issues with the survey platform, only 18 responses were successfully collected from July 17, 2019 through August 20, 2019.
- The Summer 2019 version of the survey included some prepopulated tool options and a section for providing comments.

The Summer 2020 Insider Threat Tool Survey

- Distributed with the instructions that respondents to the Summer 2018 or 2019 survey did not need to take the Summer 2020 survey unless they had a new/different tool to review.
- Responses were collected between July 2, 2020 and August 12, 2020.

The Summer 2021 Insider Threat Tool Survey

- Distributed with the instructions that any individual could take the survey, multiple times per tool. This is a change from instructions in previous years, which asked organizations to consolidate their survey responses. More questions were added to create a more detailed report.
- Responses were collected between July 12, 2021 to July 26, 2021.

Reminders

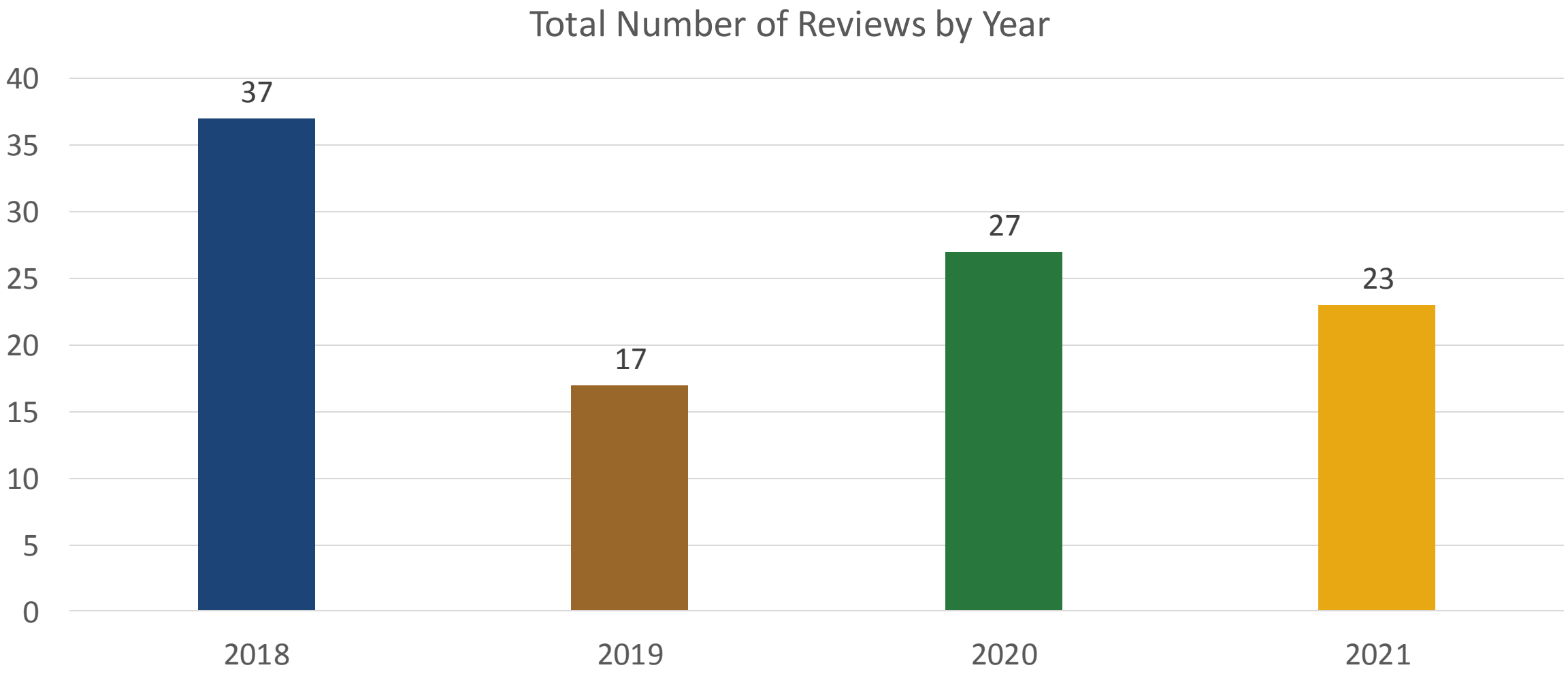
- All survey responses were collected anonymously.
- While the 2018 results included demographics for organizations that responded but did not have a complete tool review, those are not included for the 2019 or 2020 results, or this summary document.
- Do not distribute these results outside of the Open Source Insider Threat Information Sharing Group or Data Analytics Special Interest Group.
- The Chatham House Rules apply to the results and discussion of this survey.
- **The results of the survey should not be interpreted as an endorsement by the CERT, Software Engineering Institute, Carnegie Mellon University, or any other entity.**

Insider Threat Tool Survey Results
2018 - 2021

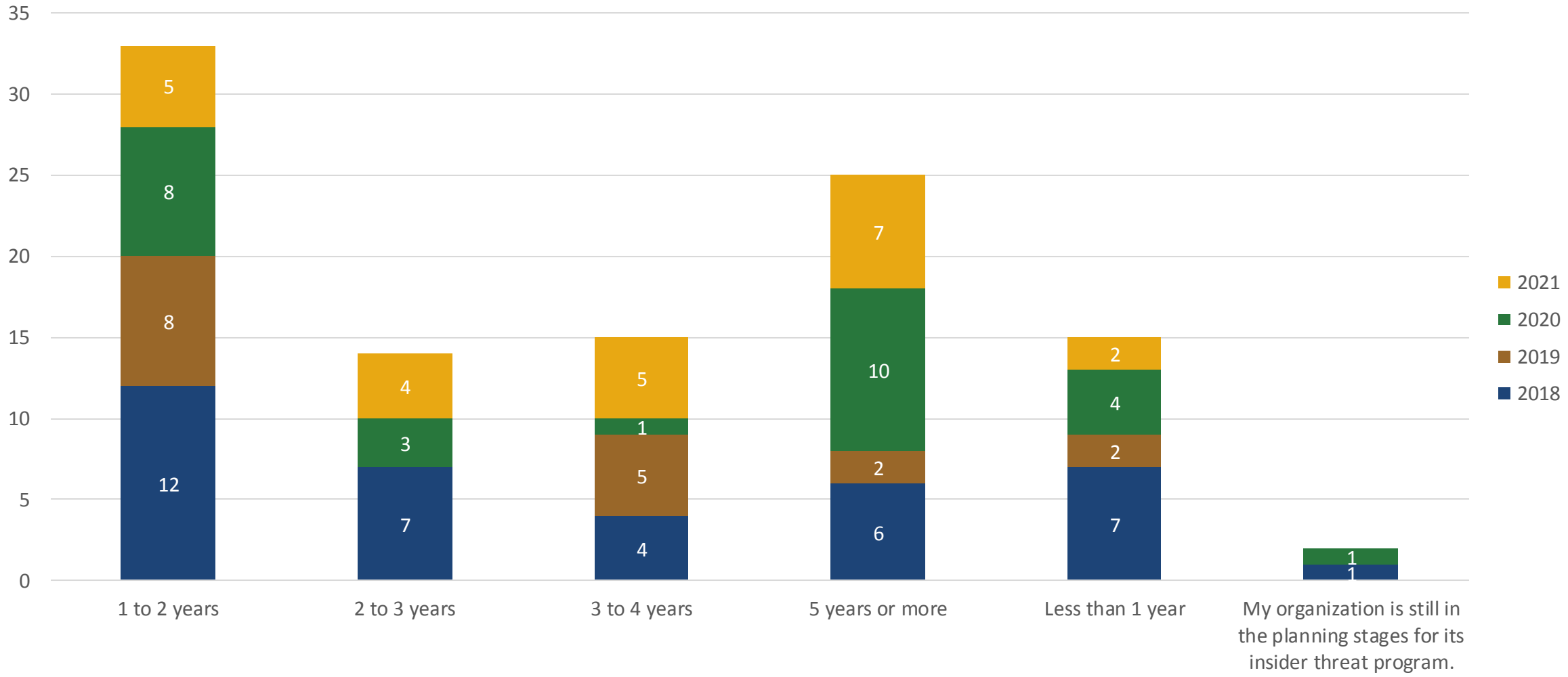
Contextual Information,

Comparing 2018 through 2021

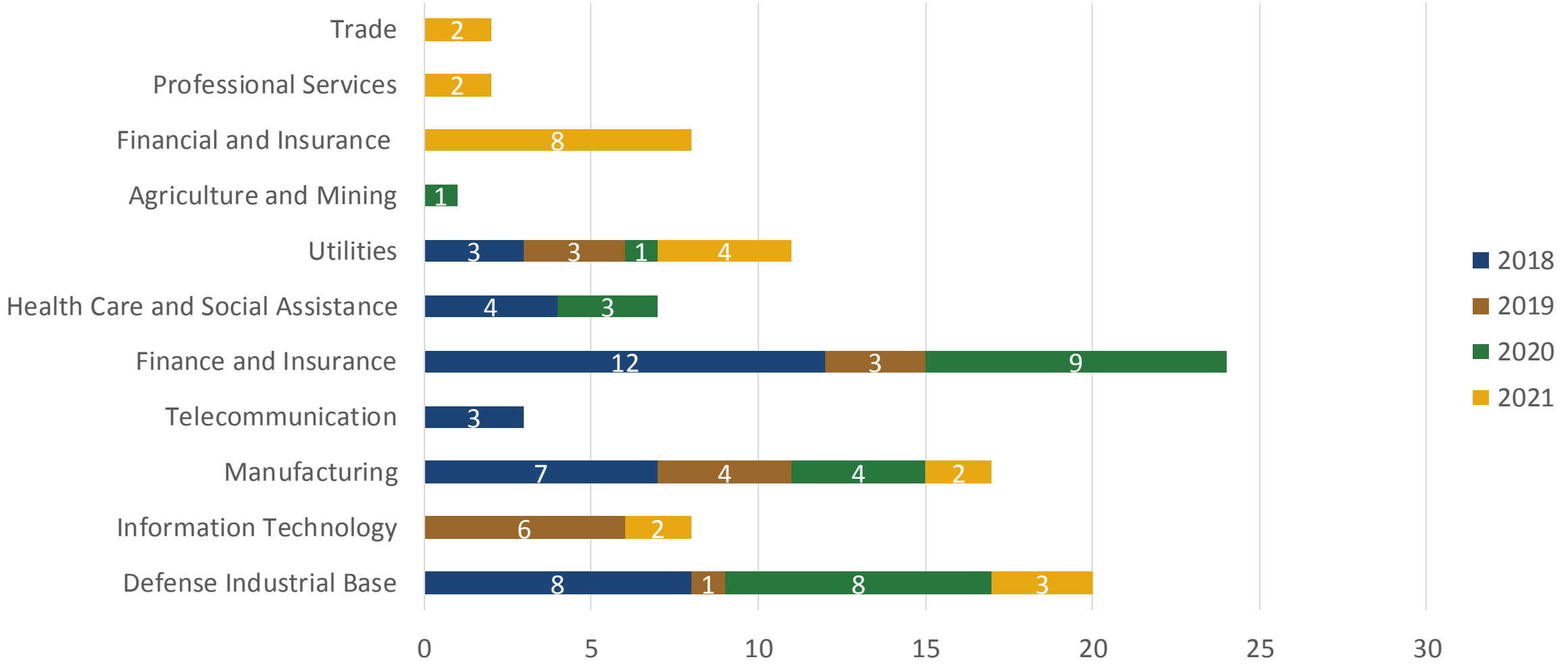
Total Annuals Reviews by Year



Annual Reviews by Age of Insider Threat Program



Annual Reviews by Industry



Insider Threat Tool Survey Results
2021

2021 Tool Review Summary

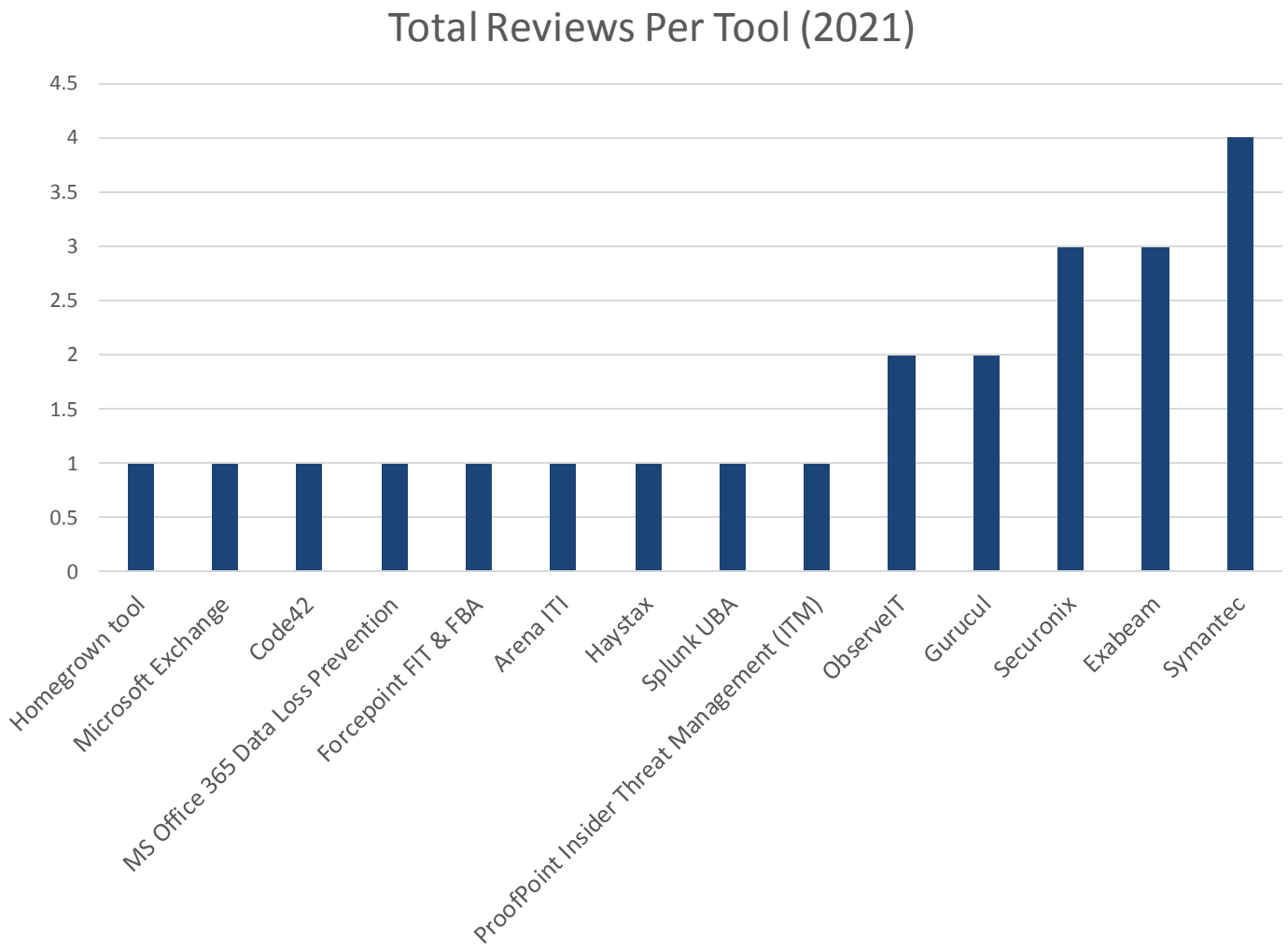
Reviews by the Numbers

Overall, we had **23** reviews across **13** industry tools and **1** home grown tool.

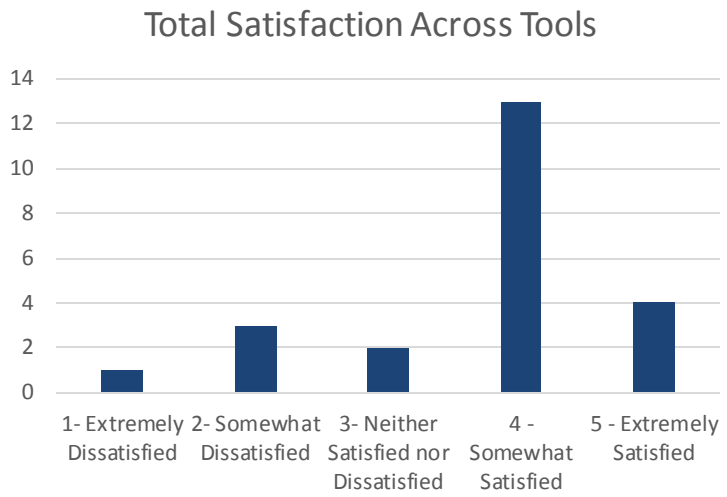
Symnatec was the most commonly reviewed, followed by Exabeam and Securonix tied for second.

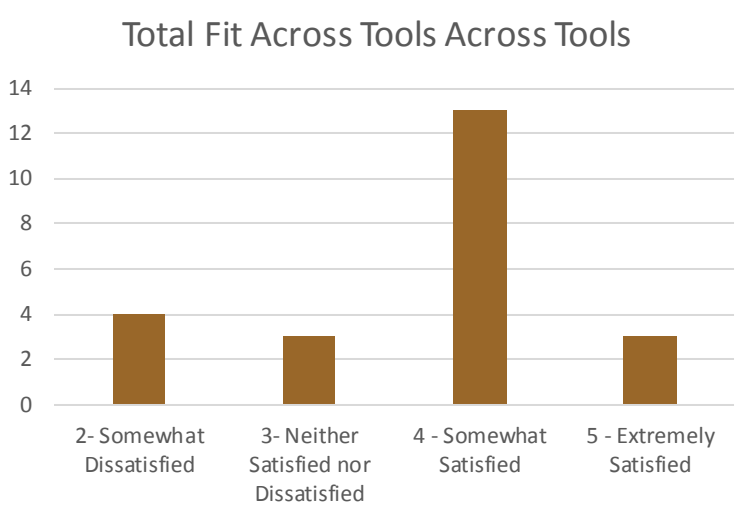
Tools Reviewed, Total Reviews per Tool

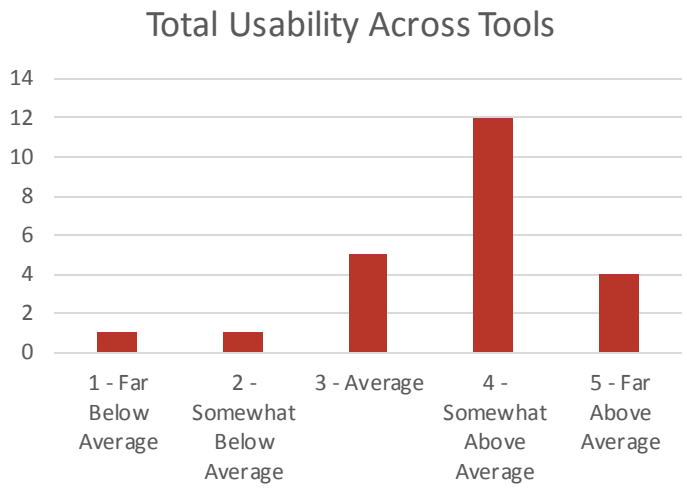
Tool Name	Number of Responses
Arena ITI	1
Code42	1
Exabeam	3
Forcepoint FIT & FBA	1
Gurucul	2
Haystax	1
Homegrown tool	1
Microsoft Exchange	1
MS Office 365 Data Loss Prevention	1
ObserveIT	2
ProofPoint Insider Threat Management (ITM)	1
Securonix	3
Splunk UBA	1
Symantec	4
Grand Total	**23**

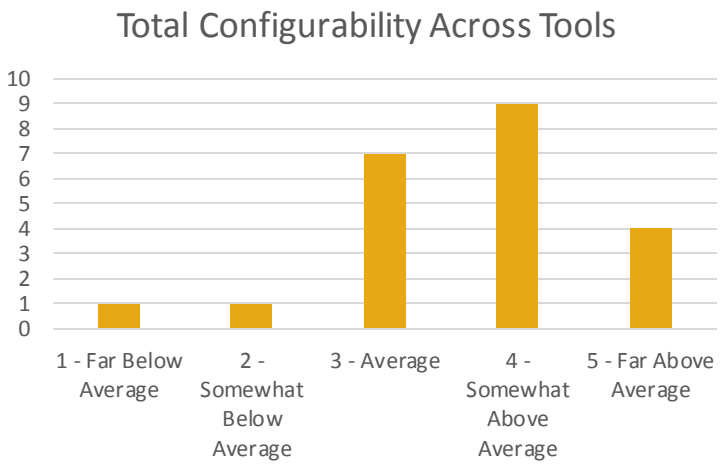


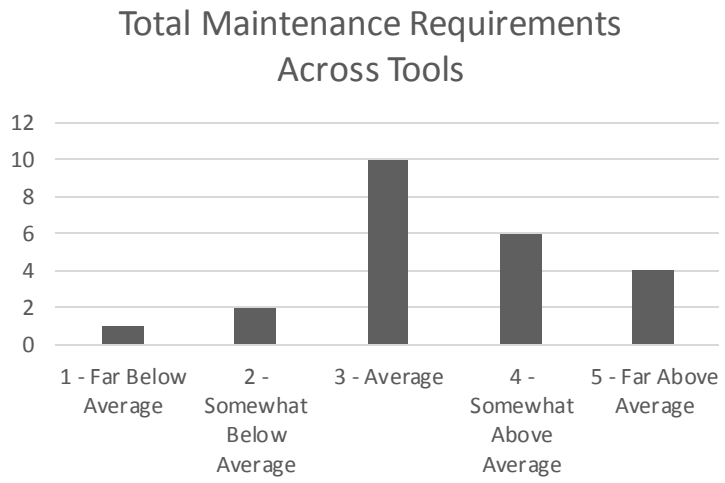
Of those reviewed, most were Satisfactory with good Usability and Fit, and Configurability. Maintenance Requirements were average.



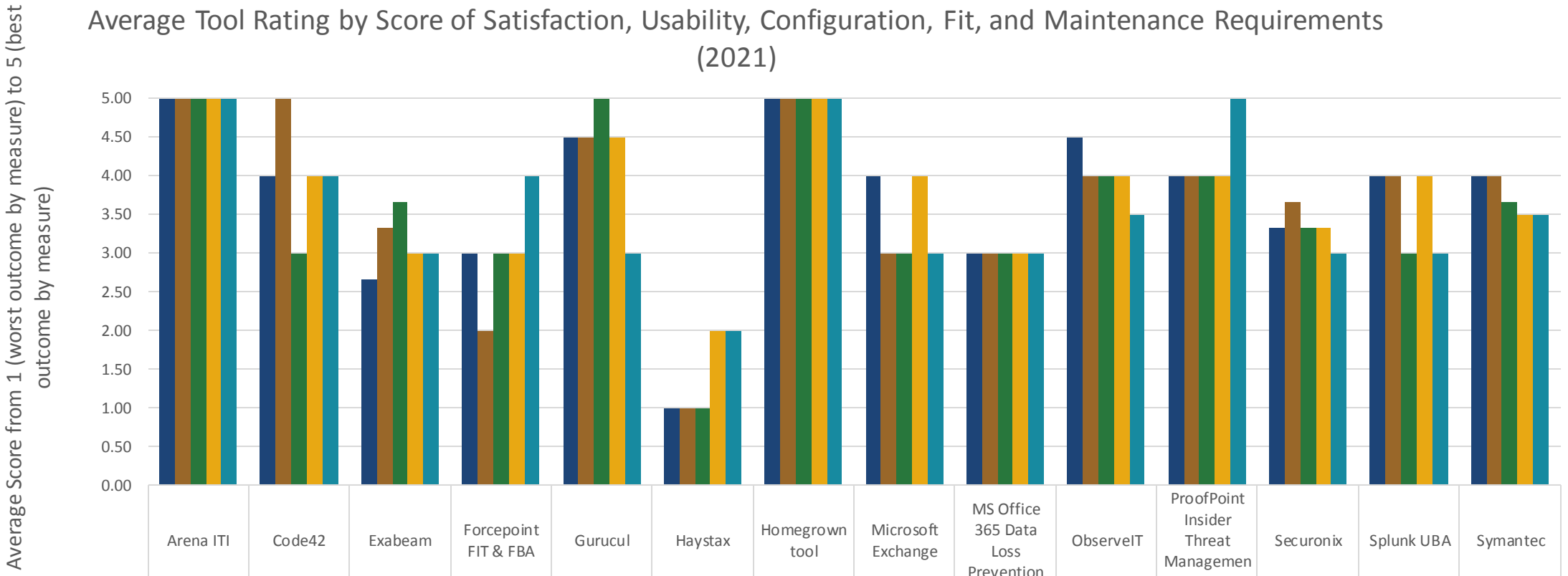






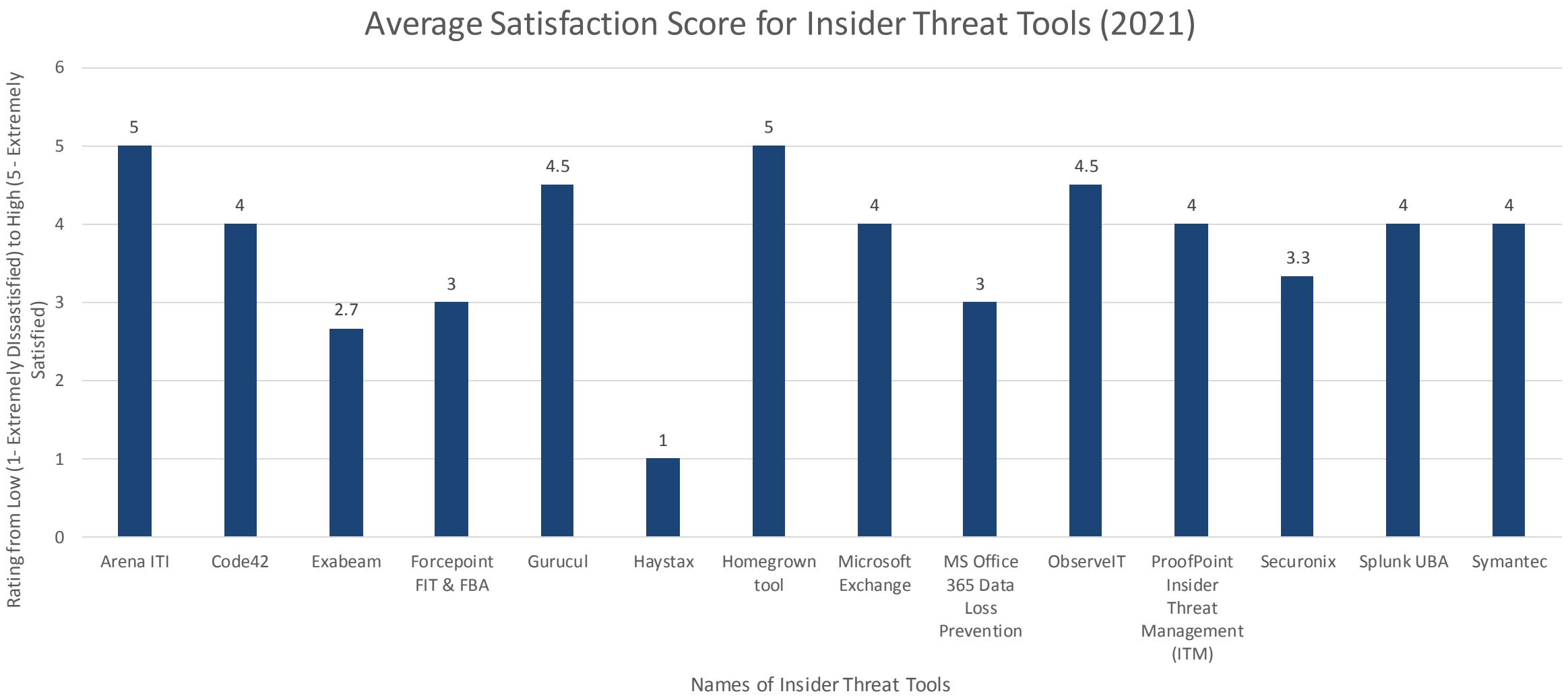


Overall Average Tool Ratings Across 5 Metrics

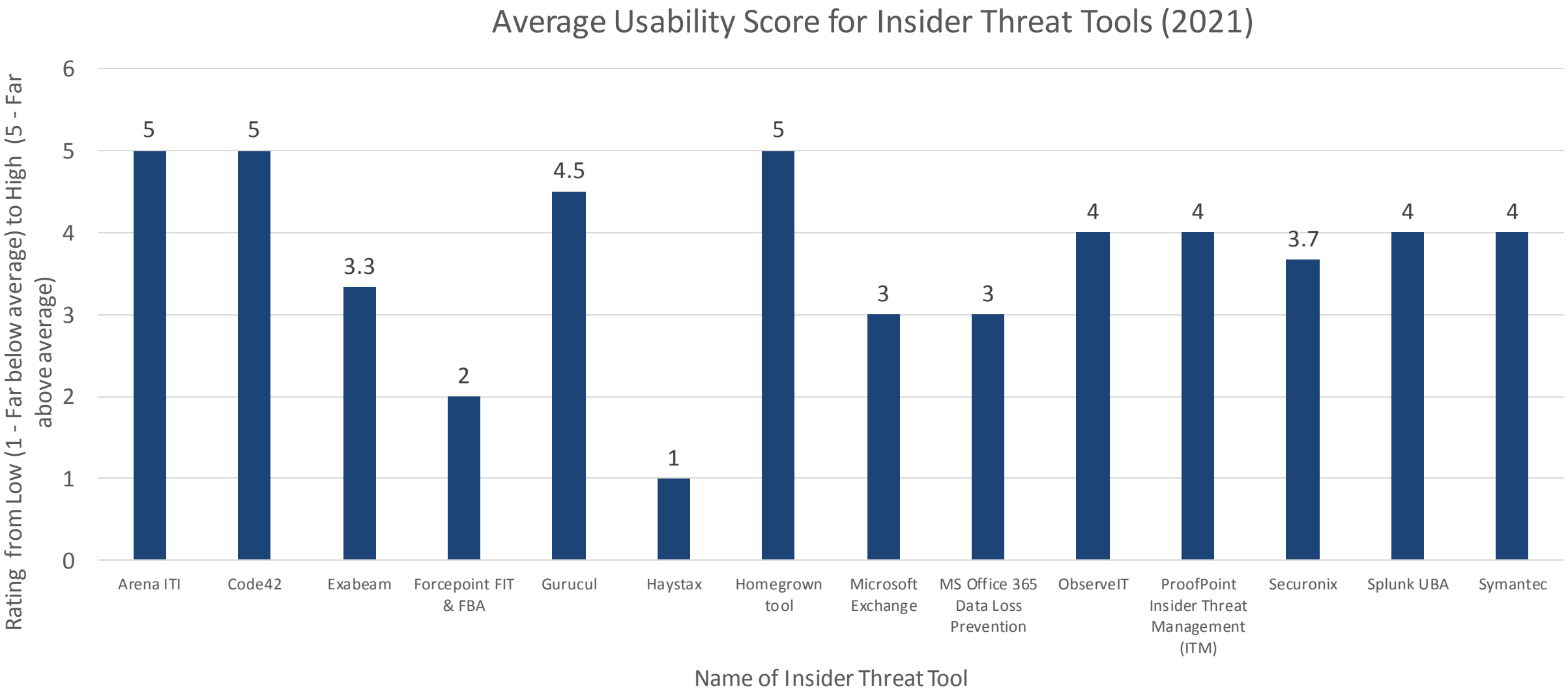


	Arena ITI	Code42	Exabeam	Forcepoint FIT & FBA	Gurucul	Haystax	Homegrown tool	Microsoft Exchange	MS Office 365 Data Loss Prevention	ObserveIT	ProofPoint Insider Threat Management (ITM)	Securonix	Splunk UBA	Symantec
Satisfaction (Average)	5.00	4.00	2.67	3.00	4.50	1.00	5.00	4.00	3.00	4.50	4.00	3.33	4.00	4.00
Usability (Average)	5.00	5.00	3.33	2.00	4.50	1.00	5.00	3.00	3.00	4.00	4.00	3.67	4.00	4.00
Configurability (Average)	5.00	3.00	3.67	3.00	5.00	1.00	5.00	3.00	3.00	4.00	4.00	3.33	3.00	3.67
Fit (Average)	5.00	4.00	3.00	3.00	4.50	2.00	5.00	4.00	3.00	4.00	4.00	3.33	4.00	3.50
Maintenance Req. (Average)	5.00	4.00	3.00	4.00	3.00	2.00	5.00	3.00	3.00	3.50	5.00	3.00	3.00	3.50

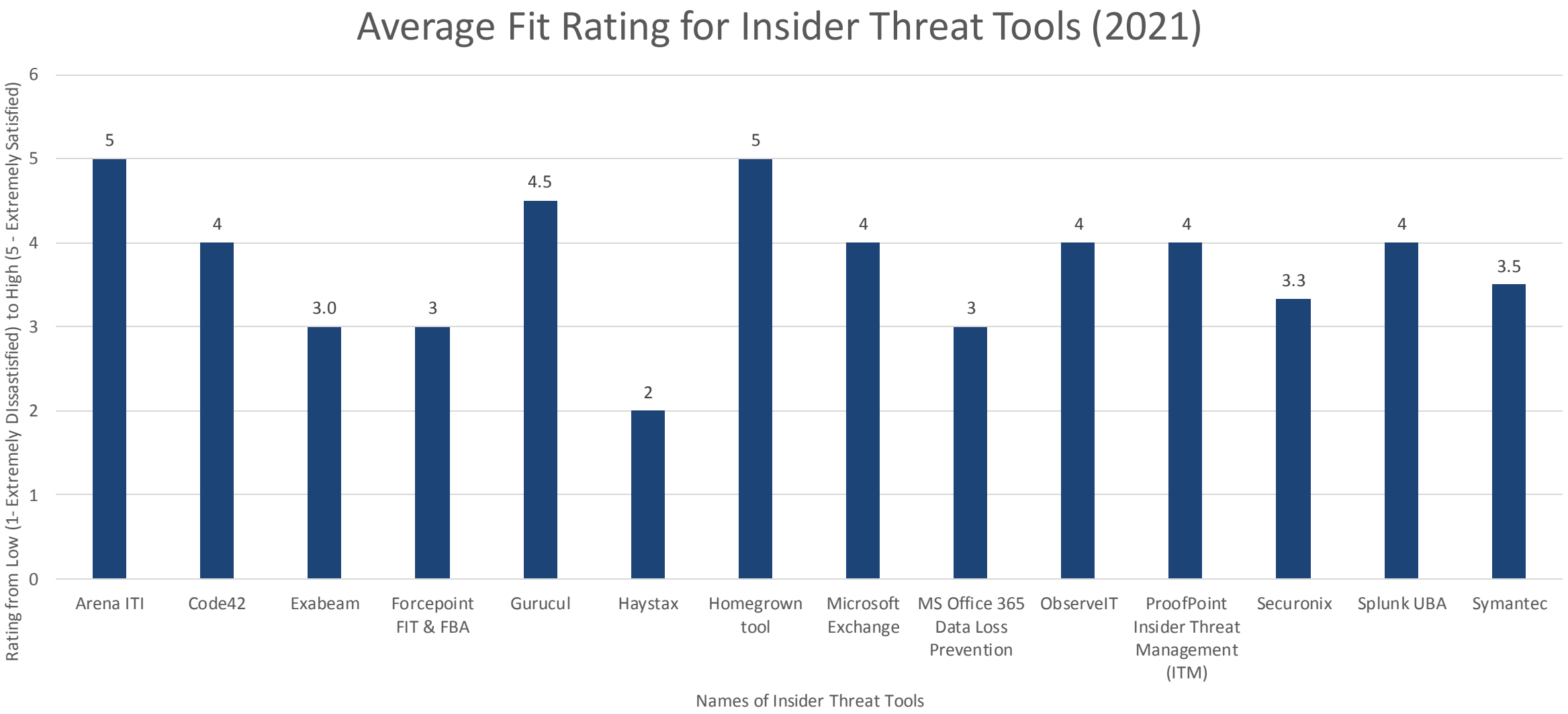
Overall Average Rating - Satisfaction



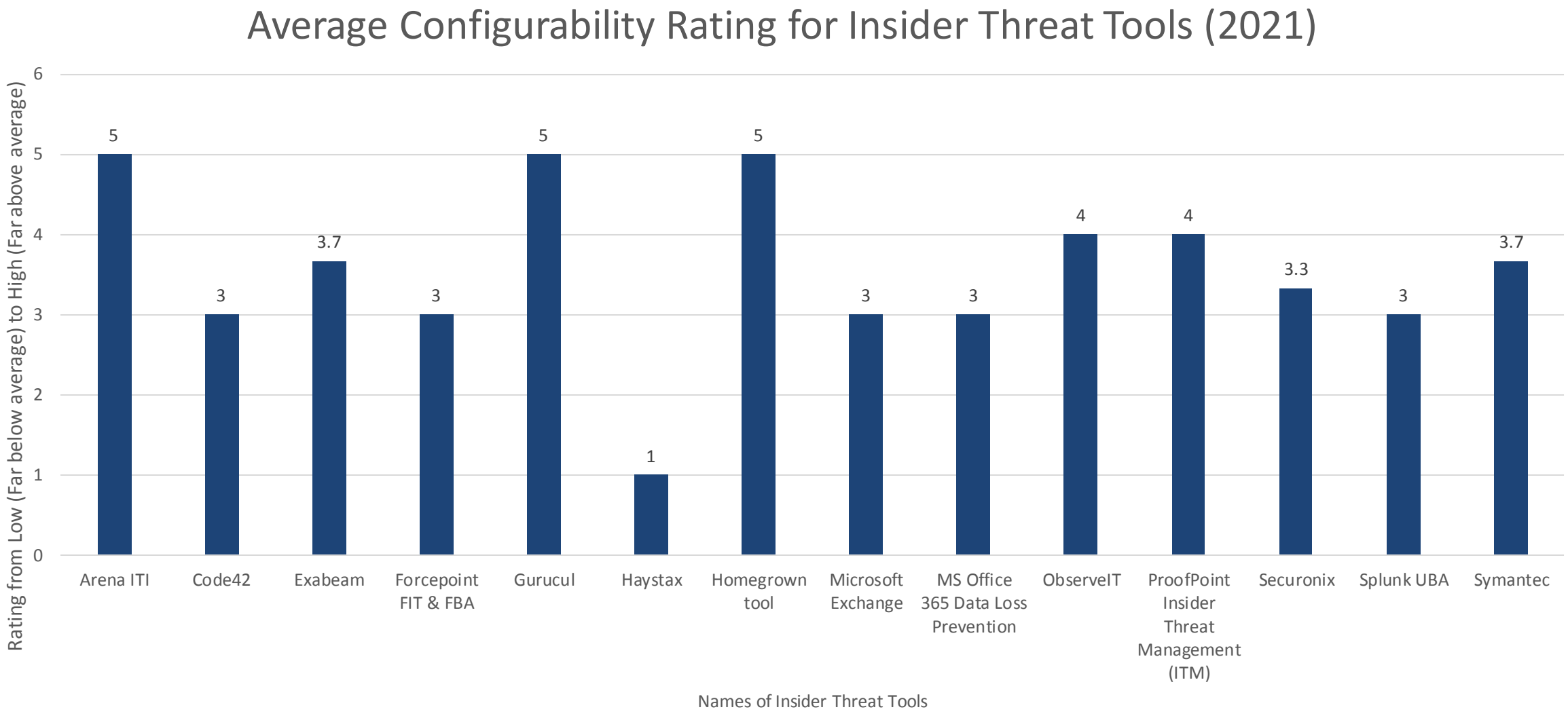
Overall Average Rating - Usability



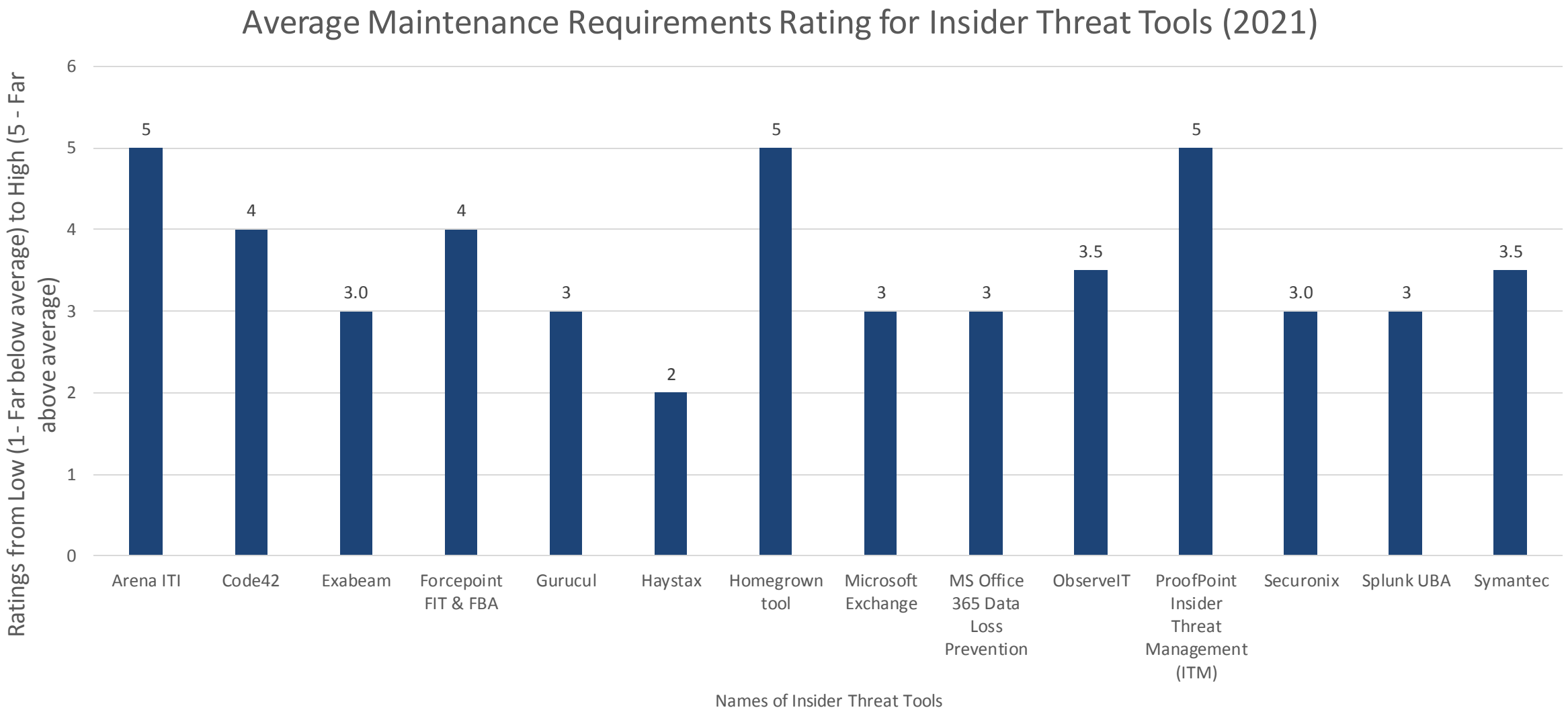
Overall Average Rating - Fit



Overall Average Rating - Configurability



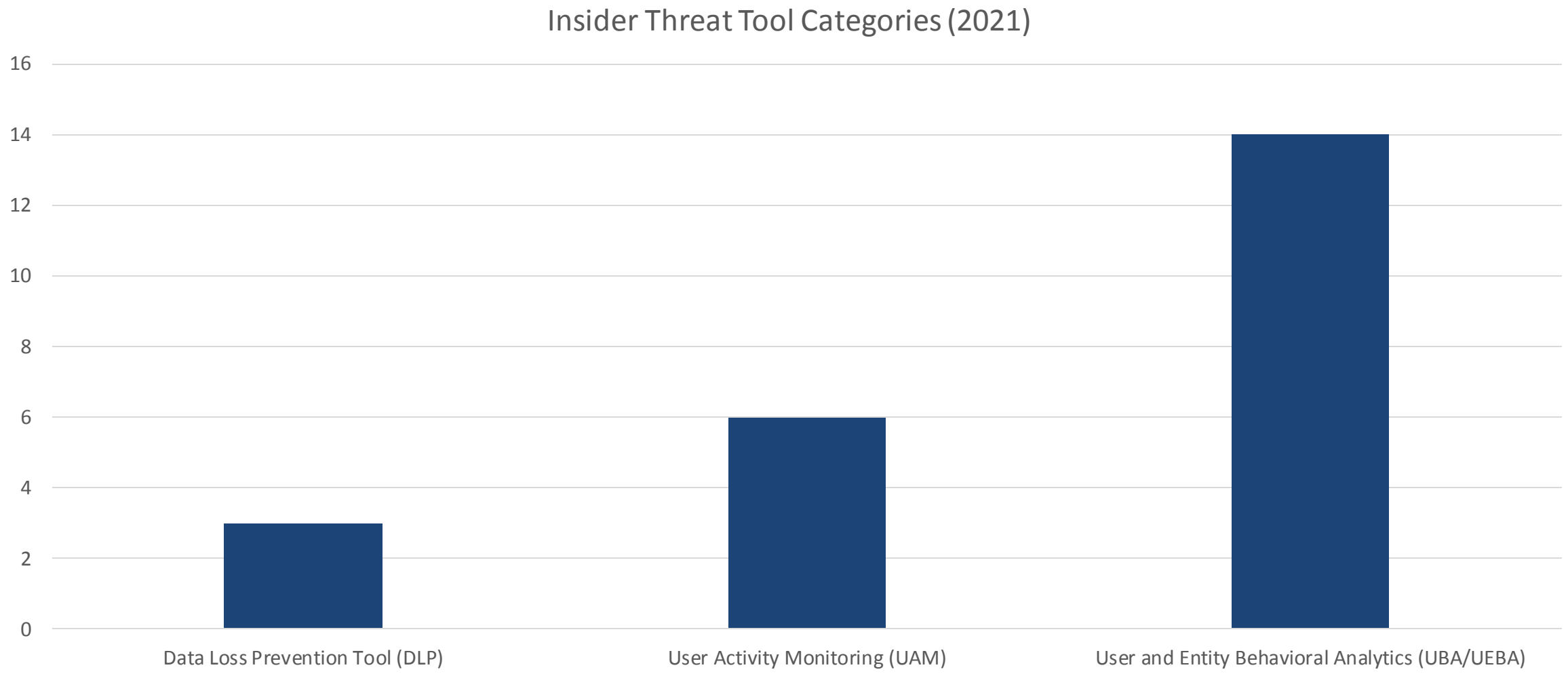
Overall Average Rating – Maintenance Requirements



Insider Threat Tool Survey Results
2021

2021 Tool Reviews by Member-Assigned Category

Tool Categories



UBA/UEBA Tool Reviews

User and Entity Behavioral Analytics (UBA/UEBA)	14
Arena ITI	1
Exabeam	2
Forcepoint FIT & FBA	1
Gurucul	2
Haystax	1
Securonix	3
Splunk UBA	1
Symantec	3

User Activity Monitoring (UAM) Reviews

User Activity Monitoring (UAM)	6
Code42	1
Exabeam	1
Homegrown tool	1
ObserveIT	2
ProofPoint Insider Threat Management (ITM)	1

Data Loss Prevention Reviews

Data Loss Prevention Tool (DLP)	3
Microsoft Exchange	1
MS Office 365 Data Loss Prevention	1
Symantec	1

Insider Threat Tool Survey Results
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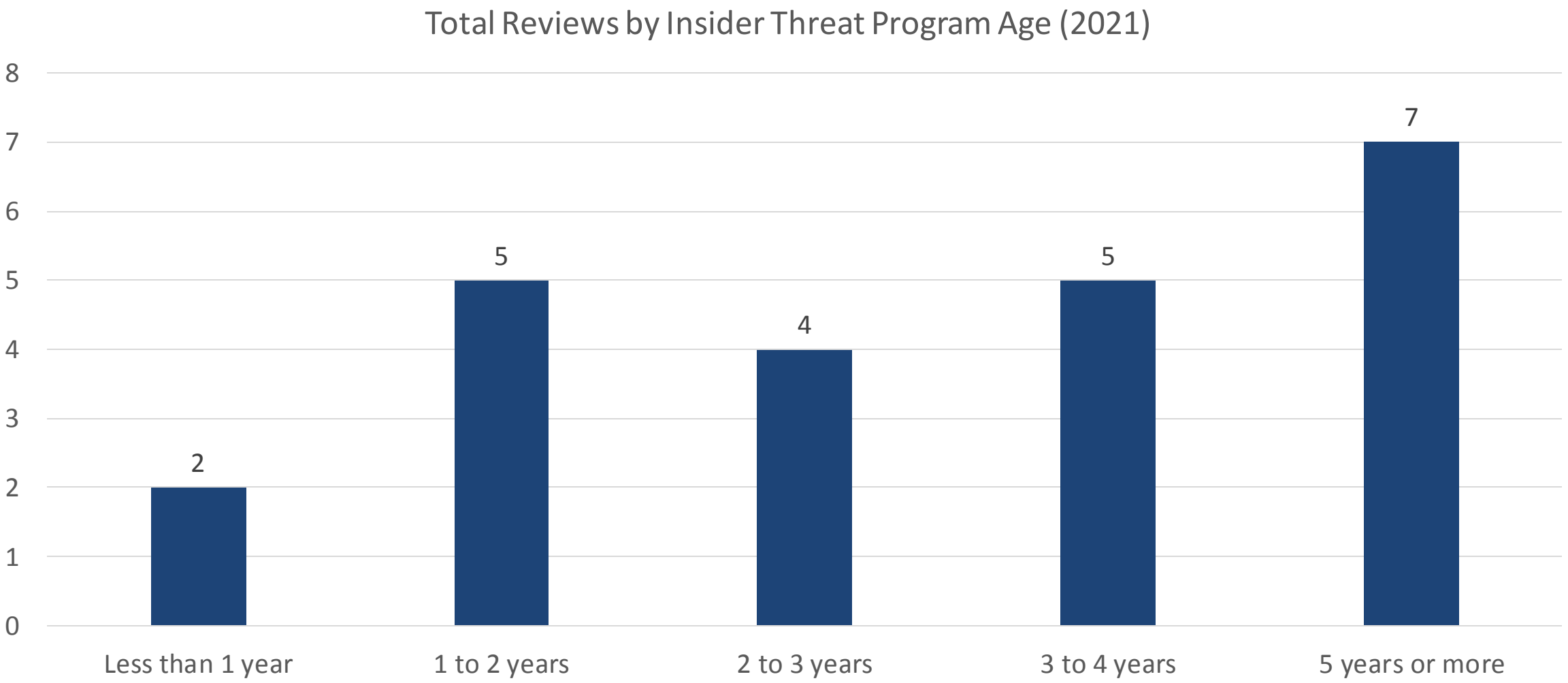
2021 Tool Reviews by Age of Program

Tool Reviews by Age of Program



Tool Reviews by Insider Threat Program Age

	Less than 1 year	1 to 2 years	2 to 3 years	3 to 4 years	5 years or more	Grand Total
Arena ITI					1	1
Code42				1		1
Exabeam		1	1	1		3
Forcepoint FIT & FBA					1	1
Gurucul		2				2
Haystax				1		1
Homegrown tool					1	1
Microsoft Exchange	1					1
MS Office 365 Data Loss Prevention	1					1
ObserveIT		1		1		2
ProofPoint Insider Threat Management (ITM)					1	1
Securonix					3	3
Splunk UBA			1			1
Symantec		1	2	1		4
Grand Total	**2**	**5**	**4**	**5**	**7**	**23**

Insider Threat Tool Survey Results
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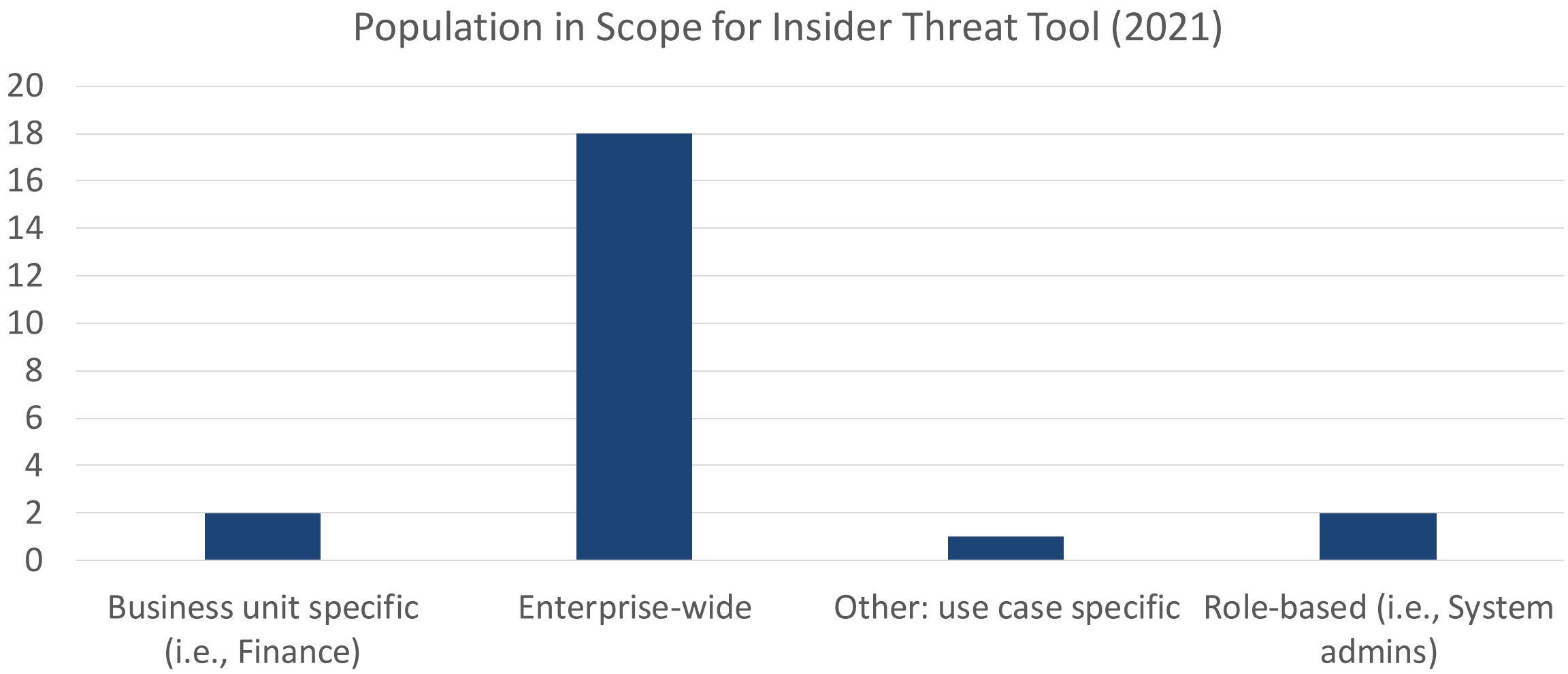
2021 Tool Reviews by Population Scope

What is the population in scope for this insider threat tool?



Tools by Population Scope

	Business unit specific (i.e., Finance)	Enterprise-wide	Other: use case specific	Role-based (i.e., System admins)	Grand Total
Arena ITI		1			1
Code42		1			1
Exabeam		2	1		3
Forcepoint FIT & FBA		1			1
Gurucul		2			2
Haystax		1			1
Homegrown tool		1			1
Microsoft Exchange		1			1
MS Office 365 Data Loss Prevention		1			1
ObserveIT		1		1	2
ProofPoint Insider Threat Management (ITM)		1			1
Securonix		3			3
Splunk UBA	1				1
Symantec	1	2		1	4
Grand Total	**2**	**18**	**1**	**2**	**23**

Insider Threat Tool Survey Results
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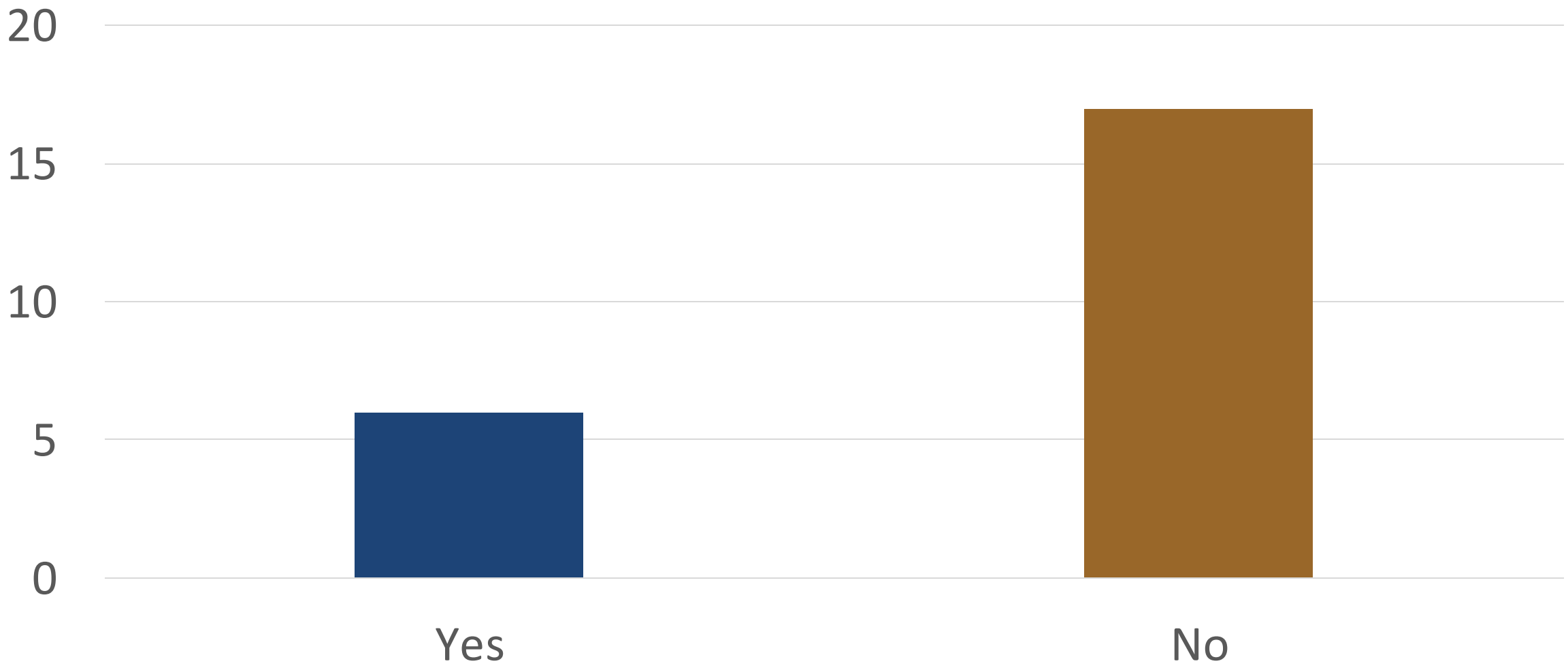
2021 Tools Reviewed in Previous Years

Have you evaluated this tool before?



If yes, how has your opinion of the tool changed since?

Response	Number of Responses
No.	3
No it has not.	1
Previous survey was completed with an older version of the tool.	1
The tool improves with subsequent releases and the vendor uses customer feedback for enhancements.	1

Tools that have been reviewed in previous years.

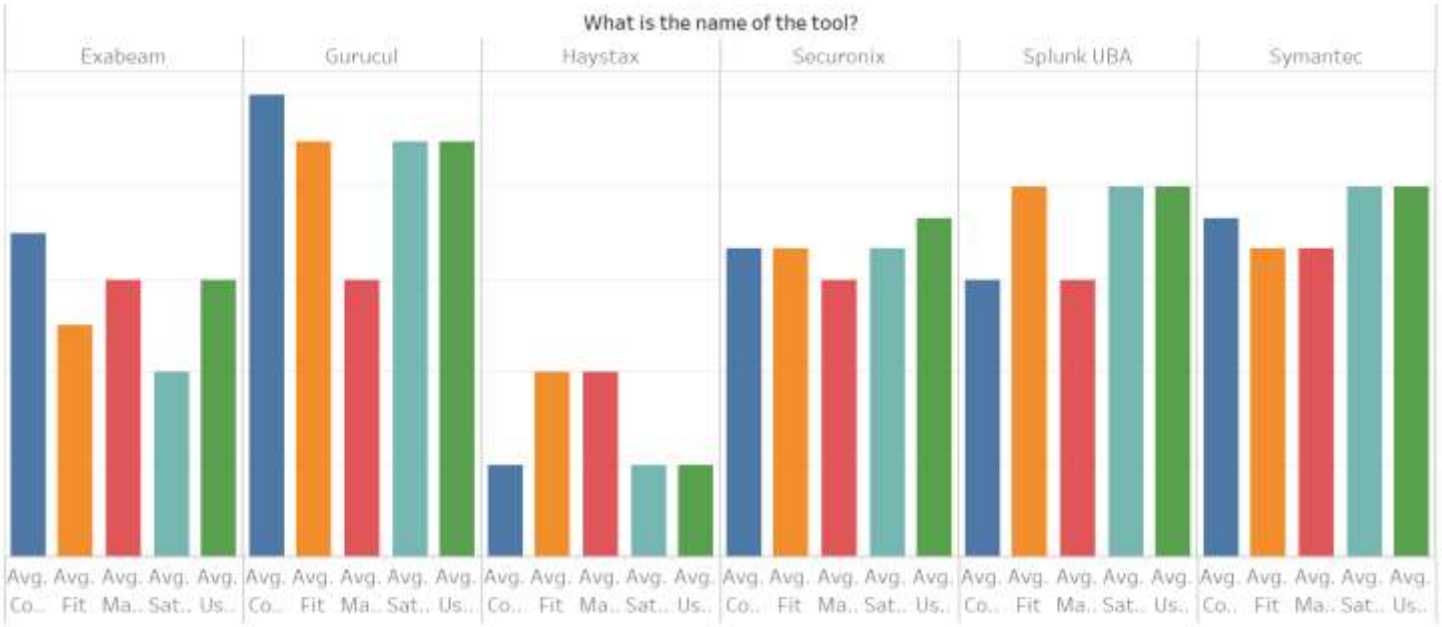
Tool Name	Number of Responses
Arena ITI	1
ProofPoint Insider Threat Management (ITM)	1
Securonix	3
Symantec	1

Insider Threat Tool Survey Results
2021

Summary by Tool and Category Type (Tableau Dashboards)

Summary by Tool, Arena ITI

Summary by Category Type



Insider Threat Tool Survey Results 2021

2021 Comments

Comments by Tool -1

Arena ITI

"Arena ITI is a proactive data analytics tool that **ingests technical and behavioral indicators** for risk scoring against user configured threat models."

Exabeam

"**Inability to set up role-based access for masking data/identity** makes this tool difficult to use in a holistic manner."

"Tech support tends to not be timely, so our team has taken on most of the parser development work."

Microsoft Office 365 Data Loss Prevention

"Understanding how other organizations have moved off Symantec DLP to MS O365 DLP successfully as well as the trials and tribulations they went through in order to achieve a mature state."

Comments by Tool -2

ObserveIT

"Very useful tool for alerting on and capturing known risks."

Securonix

"Good tool. **Sophisticated in capability but very complex.** Like driving a formula one car. Requires alot of time and commitment."

Comments by Tool -3

Symantec - 1

"Features we like:

1.) Analyzer View (Analytics): The **ability to query multiple interconnected data sources on the fly using objects with drag-and-drop techniques for analysis**

2.) **Dashboarding: Prioritized view of custom queries** displayed on the homepage for daily monitoring

3.) Risk Modelling: **Pre-built scenarios work great with other Symantec tools – like DLP, SEP & Bluecoat** proxy which we fortunately have. We can also build **custom risk models** using a collection of other data sources in a kill chain sequence.

4.) Case Manager: We **classify** and mitigate **incidents**. **ML algorithms** help improve classification efforts over time.

5.) Data masking: Available, but not often used. We don't share the application outside of our team but only when demonstrating to stakeholders.

ICA is has some downsides;

1.) **Batch processing takes a day (T+1) to complete**. The more data we feed it, the longer it takes. We have an on prem solution and we thinking to move processing to the cloud

2.) Interface: the interface is ok, not intuitive as others and there are a lot of screens to click through and sometimes the session breaks which is frustrating for the analysts. [Its a bug]

4.) ICA graphing is substandard. We export data into Power BI for stakeholder MI.

5.) There are other fiddly bits with the software and we have logged a few incidents in the past for patching. It's an evolving product as most UBAs and the next version promises to be better than the last."

Comments by Tool -4

Symantec - 2

“The tool is designed, like many others of it's kind, **to focus on data leakage prevention**, network activity and access. What it **struggles** to do is **to ingest** disparate **data** to provide an **holistic view** of a person. These data sets include **HR** information on misconduct, financial distress information, previous investigations etc. The moment one brings this in the tool becomes rather difficult to manage. Also I felt that the tool is much more **designed to fit** into a **SOC** as it is designed to work on alerts and actioning those events rather than providing just a holistic view of the person from an insider threat perspective.”

Insider Threat Tool Survey Results
2021

2021 Reviews for Tools with Known Versions

Known Tool Versions - 1

Arena ITI	1
3.4	1
Exabeam	3
4.0.53	1
I55.5	1
SaaS platform	1
Forcepoint FIT & FBA	1
current	1
Gurucul	1
8.0 R6	1
MS Office 365 Data Loss Prevention	1
current	1
ObserveIT	1
7.11.1.180	1

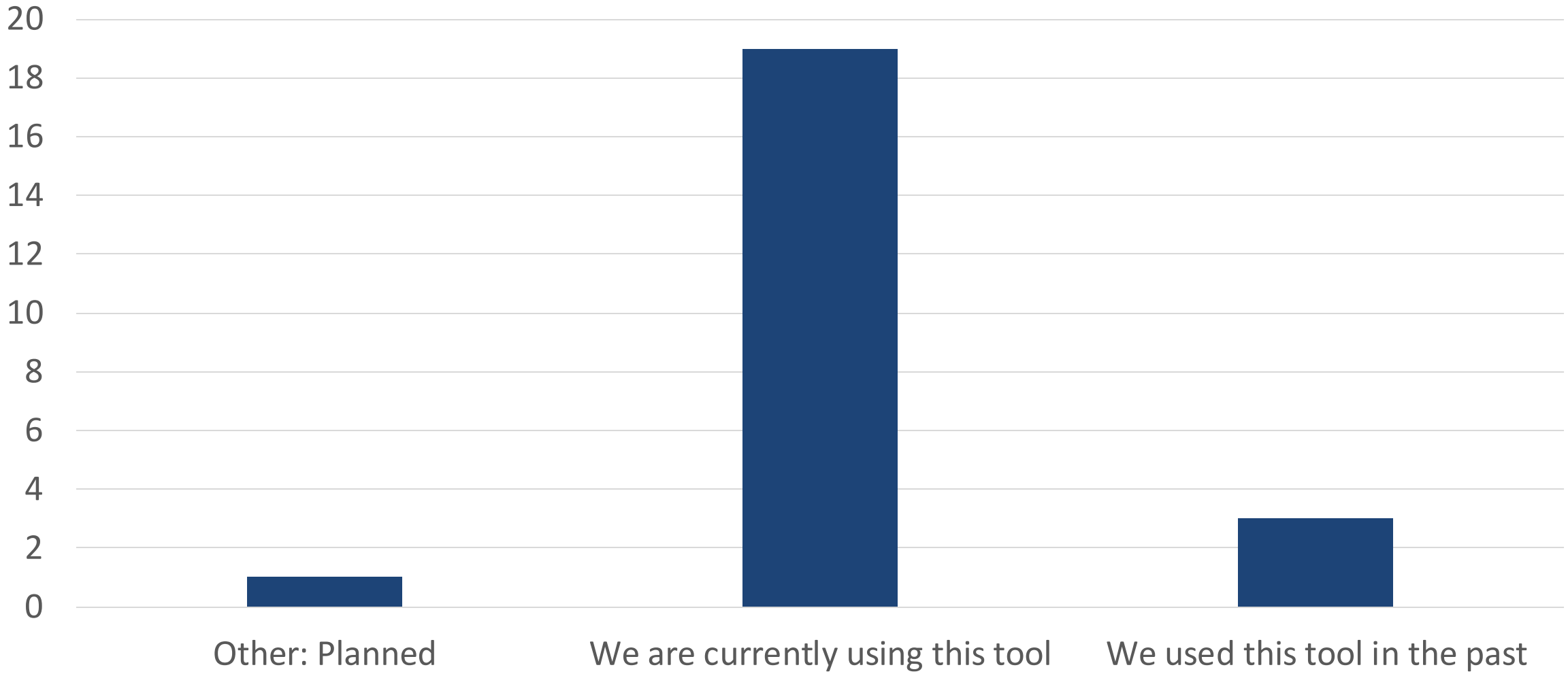
Known Tool Versions - 2

ProofPoint Insider Threat Management (ITM)	1
7.11	1
Securonix	3
6	1
6.3	1
Jupiter - V6.4	1
Splunk UBA	1
5.0.4.1	1
Symantec	2
6.5.4	2

Insider Threat Tool Survey Results
2021

2021 Tool Reviews by Organization Use

When did your organization use this tool?



Tools by Program's Planned Usage, Past or Present

	Other: Planned	We are currently using this tool	We used this tool in the past	Grand Total
Arena ITI		1		1
Code42			1	1
Exabeam		3		3
Forcepoint FIT & FBA		1		1
Gurucul		2		2
Haystax			1	1
Homegrown tool		1		1
Microsoft Exchange		1		1
MS Office 365 Data Loss Prevention	1			1
ObserveIT		2		2
ProofPoint Insider Threat Management (ITM)		1		1
Securonix		2	1	3
Splunk UBA		1		1
Symantec		4		4
Grand Total	**1**	**19**	**3**	**23**

Insider Threat Tool Survey Results
2018 - 2021

Additional Information

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