

Technology Debt Report

Generated for

ACME CORP

Feb 20, 2024

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- Summary
- EOS Operating System
- Obsolete Hardware
- EOS Software

02

Reduce Risk of Tech Debt

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- EOS Operating System
- EOS Software

The purpose of presenting this **Technology Debt (Tech Debt)** report is to communicate a transparent and actionable assessment of your Enterprise’s Tech Debt. The report helps you prioritize and remediate risk for your Enterprise. It outlines End of Support (EOS) Operating System (OS), Obsolete Hardware and EOS Software. The report aims to secure the necessary support and resources for your Tech Debt. By fostering a culture of proactive risk management and informed decision-making, you can effectively protect your assets and align your security efforts with your overarching business goals.

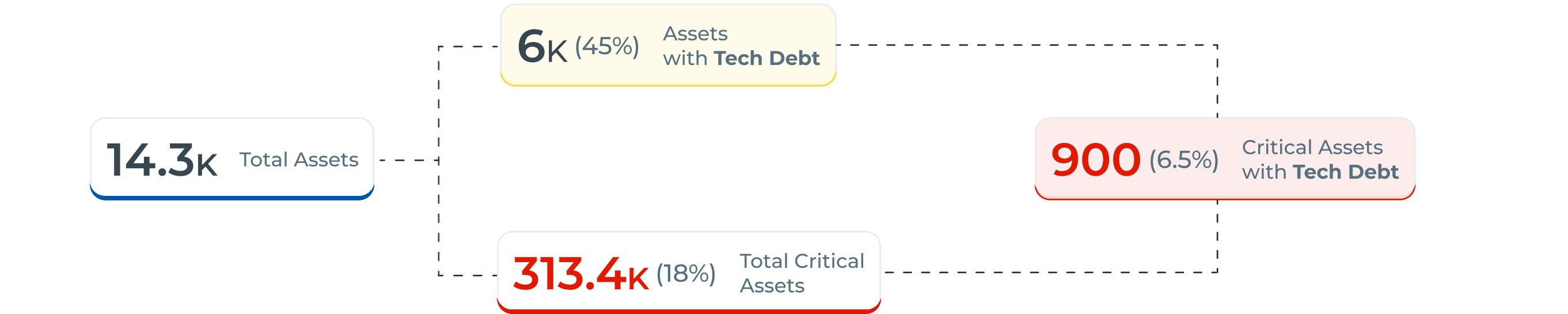
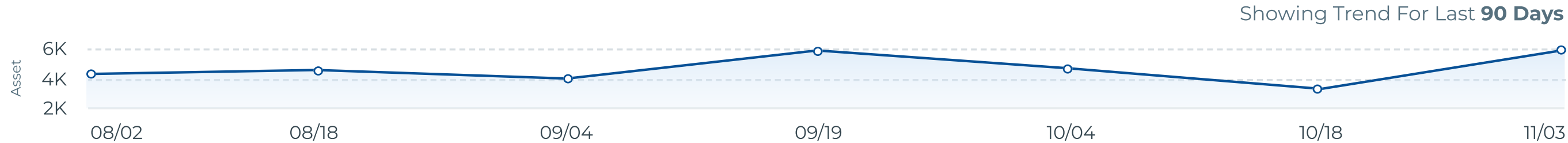
Tech Debt Summary

Scope of Your Tech Debt

This is an overall summary of Tech Debt for your Enterprise. It includes End of Support (EOS) Operating System (OS), Obsolete Hardware and End of Support (EOS) Software.

Selected Asset Tags

- Servers
- North America



Tech Debt Summary

Preview of Your Tech Debt

This is an outline of EOS Operating System (OS), Obsolete Hardware and EOS Software.

Assets with Tech Debt

6K (45%) of 14K

EOS Operating System

Assets with EOS Operating System	1.85K
Critical Assets with EOS Operating System	800

Obsolete Hardware

Assets with Obsolete Hardware	392
Critical Assets with Obsolete Hardware	91

EOS Software

Assets with EOS Software	5.8K
Critical Assets with EOS Software	696

*Critical Assets are assets with Asset Criticality Score (ACS) = 4&5 | * Showing data for selected asset tags | 14K Assets

End-Of-Support Operating System

Scope of Your Tech Debt

Prioritize **800 Critical Assets** with EOS Operating Systems



Assets with **EOS Operating System**

87% **700/800** Critical Assets with EOS Operating System are Servers (600) and Clients (100)

 **200** of 14K Additional Critical Assets that will have EOS Operating System in next 9 months

5+ years **Average EOS age for your environment > 5 years**
11 OS versions with EOS older than 8 years
5 OS versions with EOS older than 10 years

* Showing data for selected asset tags | **14K Assets**



**Qualys
Recommends**

Prioritize **OS upgrade for 800 Critical Assets** with EOS OS

Proactively plan **upgrade for 200 Critical Assets** with upcoming EOS in **next 12 months**. [View Page XX](#)

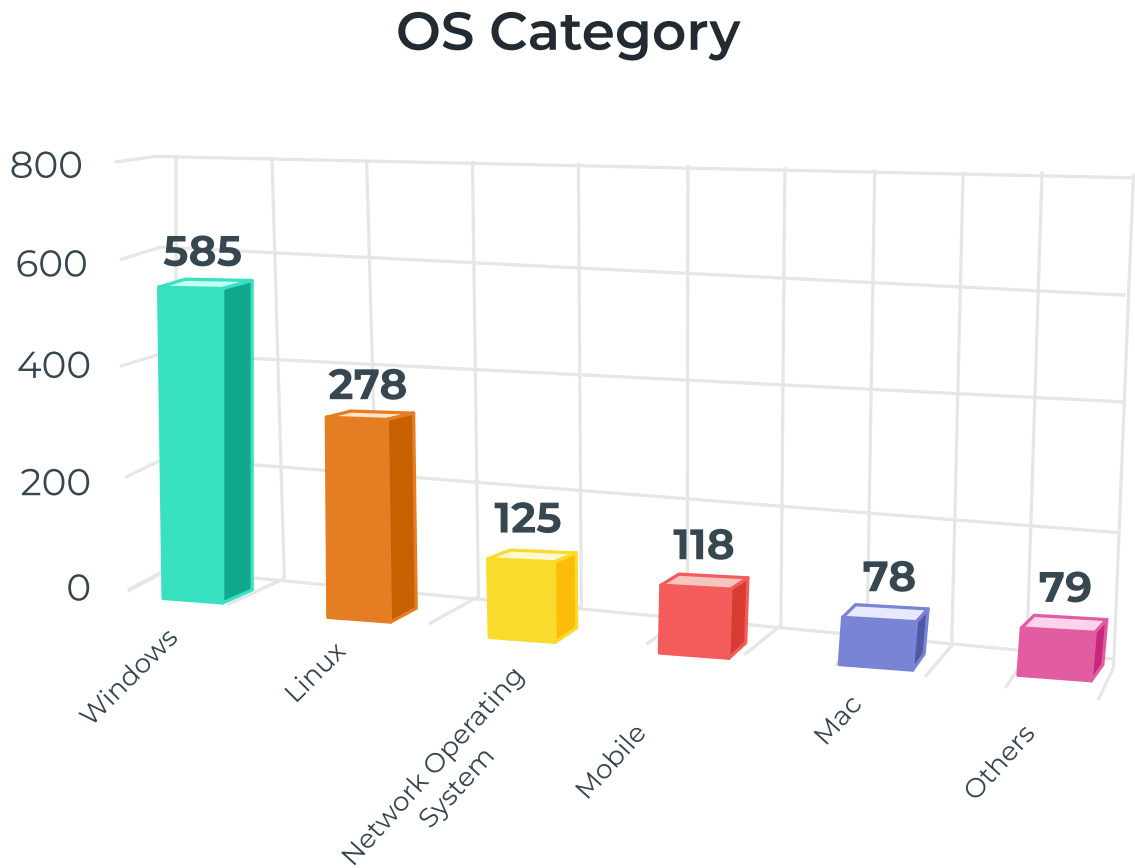
End-Of-Support Operating System

Scope of Your Tech Debt

Breakdown of EOS Operating Systems by Category

Assets with EOS
Operating Systems

1.34k



OS Sub Category

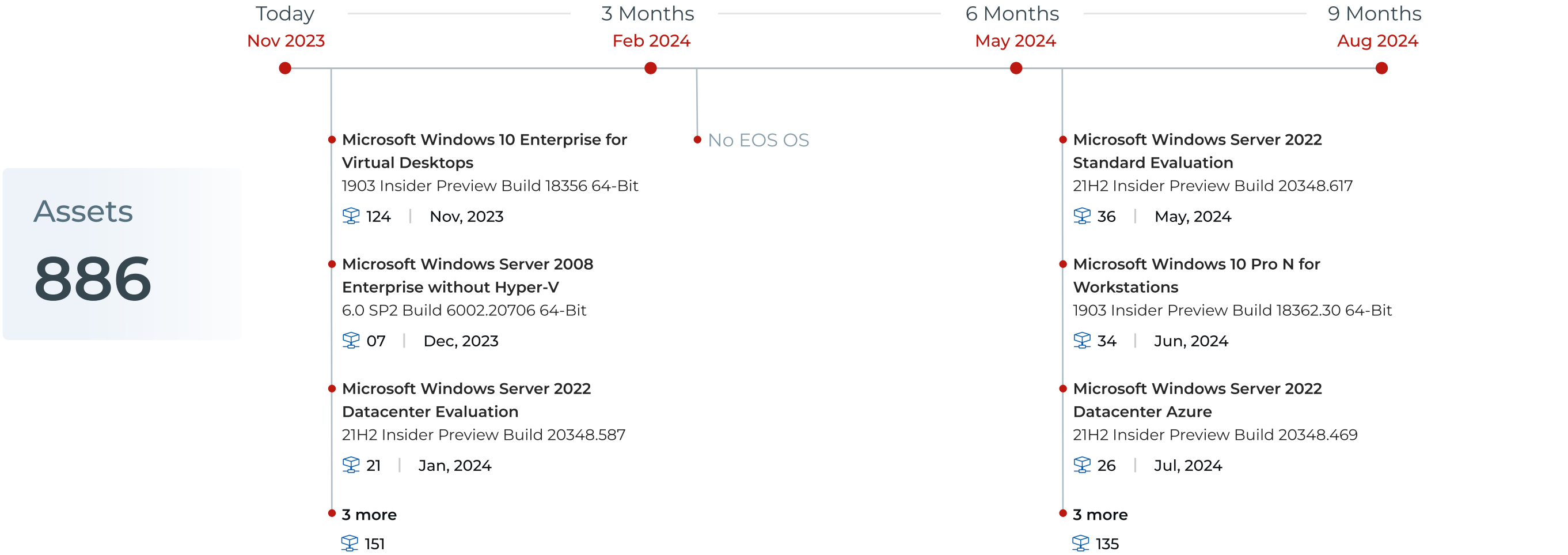
Category	Asset Count
Client	666
Server	389
Unidentified	333
Embedded	278
Hypervisor Type	93
Other Category	93

* Showing data for selected asset tags | 14K Assets

End-Of-Support Operating System

Monitor Upcoming EOS Operating Systems

Proactively plan for EOS Operating System for the next 9 months



* Showing data for selected asset tags | 14K Assets

Obsolete Hardware

Scope of Your Tech Debt

Prioritize **91 Critical Assets** with **Obsolete Hardware**



Assets with **Obsolete Hardware**

70% **64/91** Critical Assets with Obsolete Hardware are Servers (42) and Laptops (32)

 **300** of 14K Additional assets will have Obsolete Hardware in next 12 months

5+ years Average hardware obsolescence age > 5 years.
12 hardware models with hardware obsolescence age more than 8 years

* Showing data for selected asset tags | **14K Assets**



Qualys
Recommends

Prioritize **upgrading hardware** for **91 Critical Assets**

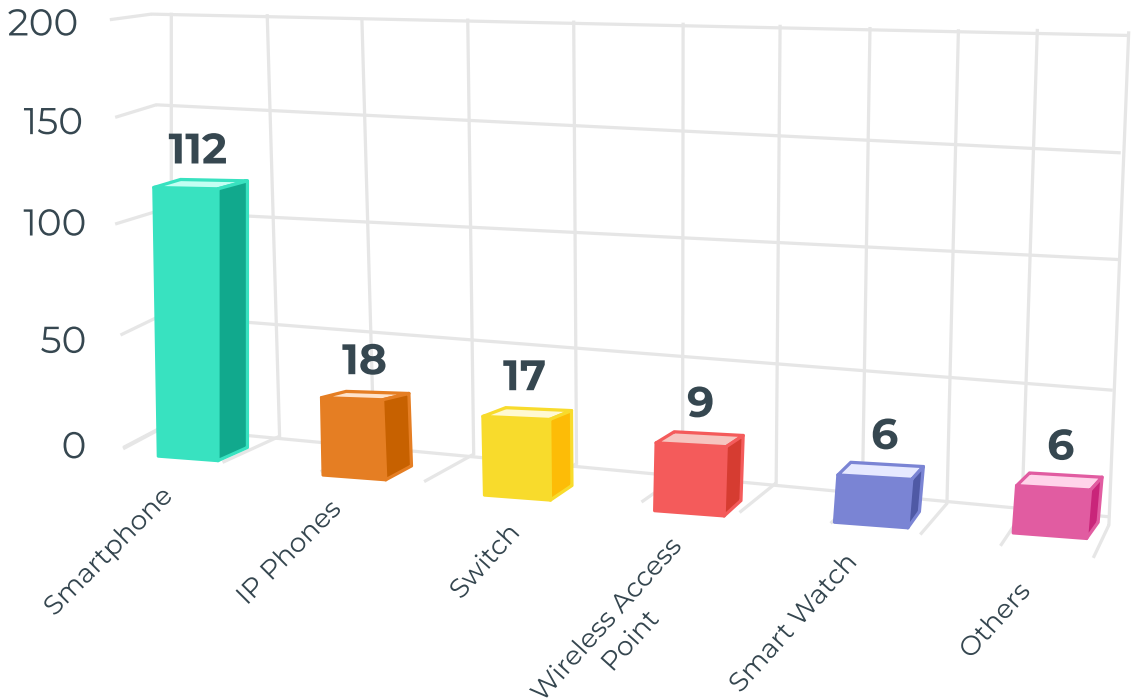
Proactively plan **hardware refresh** for **300 additional Assets** with upcoming obsolete hardware in **next 12 months**

Obsolete Hardware

Scope of Your Tech Debt

Breakdown of assets with Obsolete Hardware by categories & models

Top Hardware Categories



Assets with Obsolete Hardware
999.9k

Top 10 Hardware Models

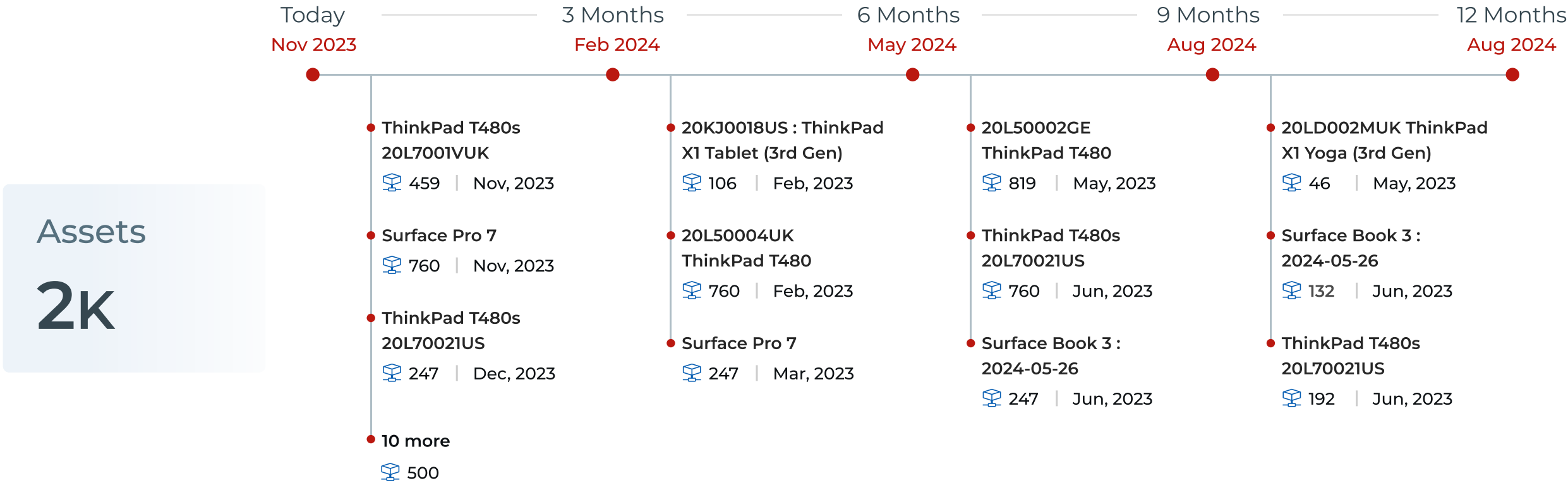
Hardware Model	EOS Date	Asset Count
Apple Macbook Pro (16-inch,2019)	Oct 17, 2021	46
ThinkPad T480 (20L50018US)	Aug 18, 2020	13
Samsung Galaxy Tab A 8.0 (SM-T350)	May 3, 2023	12
Lenovo ThinkPad T480 (20L50010US)	Aug 18, 2020	5
Apple Macbook Pro (13-inch, 2020)	Oct 17, 2021	4
Lenovo ThinkPad T470 (20HD005GUS)	Apr 14, 2020	2
Apple ipad Pro (3rd Generation)	Mar 17, 2020	2
Lenovo ThinkPad T440p (20AWS0L000)	Nov 29, 2018	1
Lenovo ThinkPad T470 (20HD005EUS)	Apr 14, 2020	1
Apple Watch Series 4	Sep 9, 2019	1

* Showing data for selected asset tags | 14K Assets

Obsolete Hardware

Monitor Upcoming EOS Hardware

Proactively plan for EOS Hardware for the next 12 months



* Showing data for selected asset tags | 14K Assets

End-of-Support Software

Scope of Your Tech Debt

Prioritize **120 EOS Software Versions** with **Critical Vulns** on **540 Critical Assets**



Assets with EOS Software

41%

5.85K/14K of your assets have **at least one EOS Software**, which is typically not covered for security patches

35K

Total **EOS Software Installations**, across 5.85K assets

5%

696/14K are Critical Assets, with **1.2K total EOS installations**

1.1K

Software Versions are EOS, for **900 distinct Software Products**

120

EOS Software Versions **with Critical Vulns**, affecting **540 Critical Assets**

2+

years

60% of EoS Software in your environment is older than 2 years

* Showing data for selected asset tags | 14K Assets



**Qualys
Recommends**

Prioritize **upgrade** for 120 EoS software versions with **critical vulns** on 540 critical assets

Proactively plan **upgrade** for 34 Software Versions affecting Critical Assets with upcoming EOS in next 6 months.

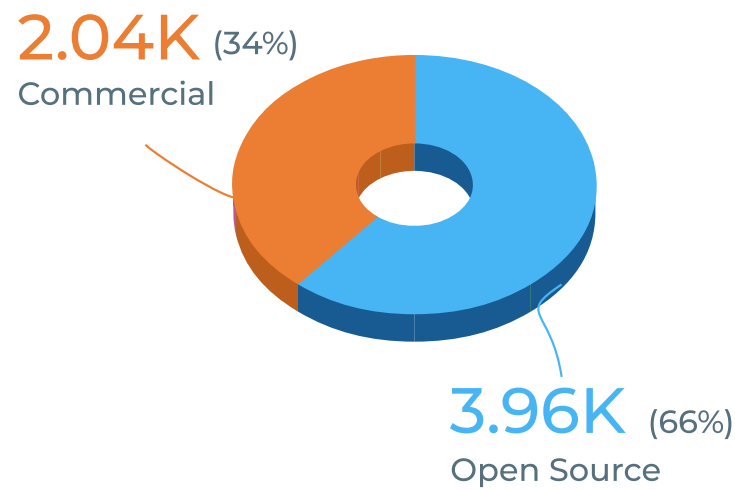
End-Of-Support Software

Scope of Your Tech Debt

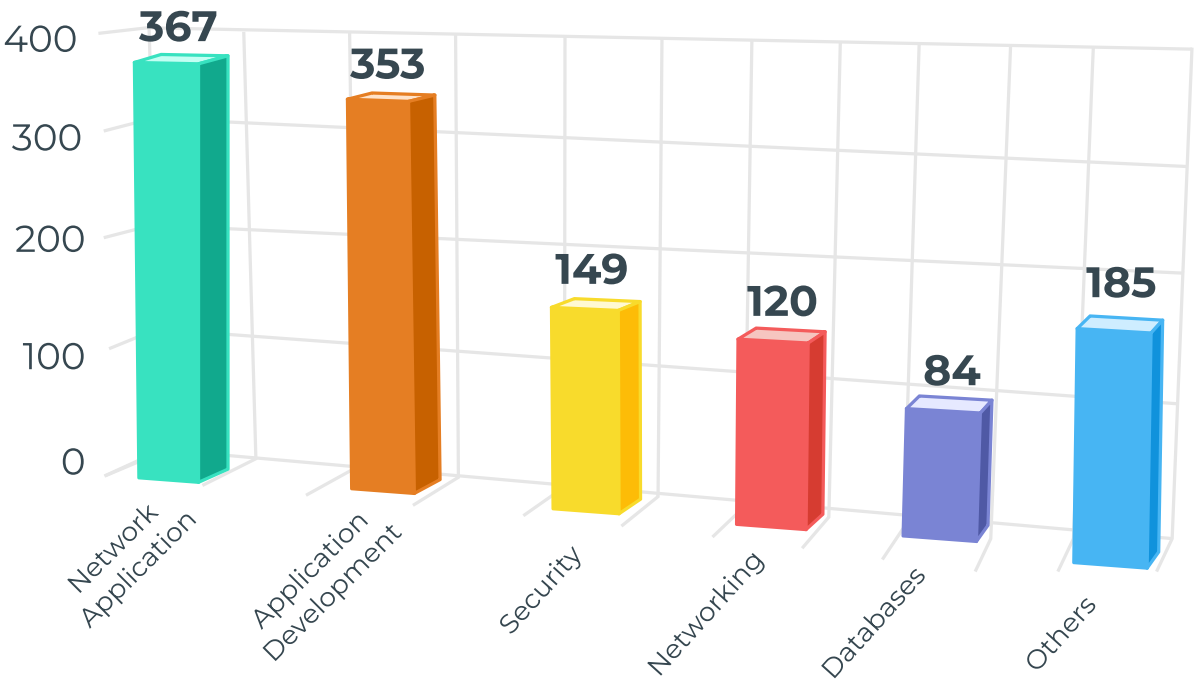
Breakdown of EOS Software by Licenses & Categories

EOS Software by Licenses

Assets with EOS Software
1.34k



EOS Software by Category



* Showing data for selected asset tags | 14K Assets

End-Of-Support Software

Prioritize your Tech Debt Risk

Software	Version	EOS Date	Install Count	Vulnerabilities	QDS
Apache Tomcat Server	6.0.24	Mar 30,2021	124	20 Critical & 10 High	100
Don Ho Notepad++	7.8.3	Mar 30,2018	122	18 Critical & 8 High	100
Apache Axis	1.2.1	Mar 21, 2017	124	10 Critical & 6 High	99
WinRAR	5.71.0	Dec 31, 2019	226	19 Critical & 8 High	99
GNU Project Mtools	3.9.10-2	Jan 31, 2019	87	16 Critical & 7 High	99
Apache HTTP Server	1.1	Jan 31, 2016	98	12 Critical & 6 High	98
Python	2.6.6	Apr 31, 2016	145	6 Critical & 3 High	97
Denys Vlasenko Busybox	1.15.1	Mar 23, 2018	123	4 Critical & 2 High	96
Adobe Flash Player	11.9.900.117	Dec 22, 2019	23	8 Critical & 4 High	93
Citrix XenCenter	5.6.102	Oct 29, 2017	43	13 Critical & 7 High	91

What is Qualys Detection Score (QDS)?

This is the score assigned to the respective Qualys detection. QDS range is 1-100 and has four severity levels: Critical, High, Medium and Low. QDS is derived from the following factors:

- 1. Risk of Vulnerabilities
- 2. End-of-Support Timeline

The QDS range is 1-100

1-39

40-69

70-89

90-100

Low

Medium

High

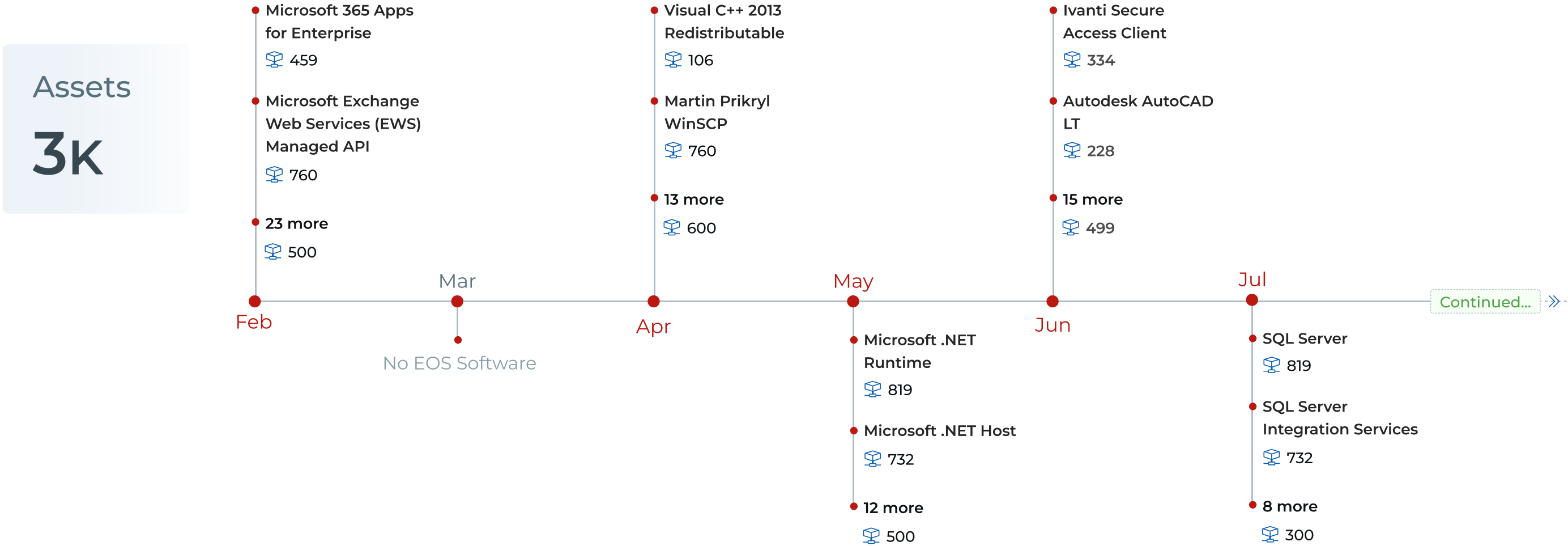
Critical

* Showing data for selected asset tags | 14K Assets

End-Of-Support Software

Monitor Upcoming EOS Software

Proactively plan for EOS Software for the next 12 months

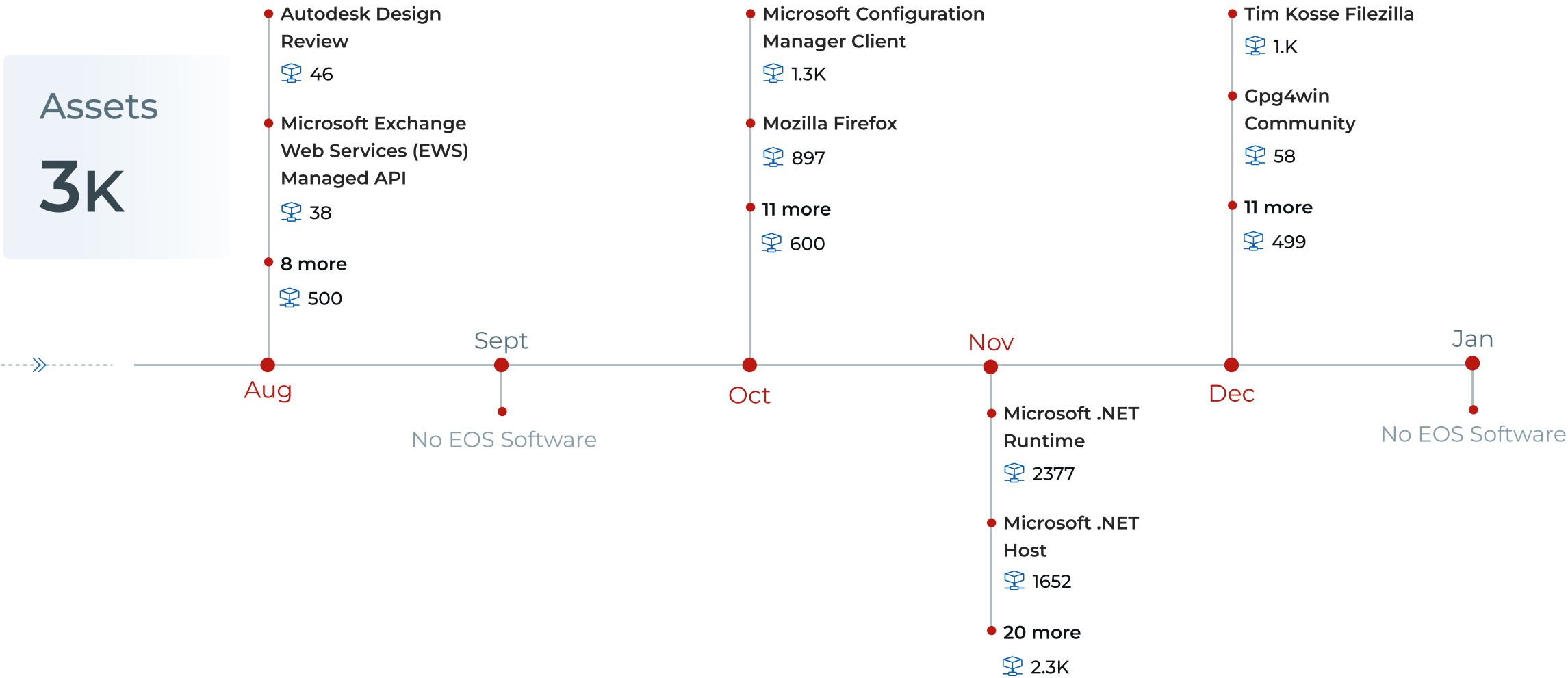


* Showing data for selected asset tags | 14K Assets

End-Of-Support Software (Contd.)

Monitor Upcoming EOS Software

Proactively plan for EOS Software for the next 12 months



* Showing data for selected asset tags | 14K Assets

Recommendations to Reduce Tech Debt

Ensure you are **tagging your Critical Assets** (ACS=4&5) to prioritize TechDebt on critical assets first. Looks like your assets in subscription are tagged inconsistently.

Institute a program to

Standardize on fewer Operating System versions to reduce the variance in your environment

Continuously plan for OS/SW lifecycle and proactively plan upgrades 6-9 months in advanced

Prioritize EOS Software based on the impact of its vulnerabilities. **Use QDS Score** assigned to EOS Software.

* Showing recommendations selected asset tags | **14K Assets**

End-Of-Support Software

Reduce Risk of Tech Debt

Upgrade the following software to reduce your Tech Debt. This will also contribute in reducing the TruRisk score for your Enterprise.

Software Product	EOS Versions	QDS Range	Assets Affected	Recommended Upgrade
SQL Server	13	97 - 100	222	16.0.4015.1 or higher
Adiscon Rsyslog	5.8	97 - 100	46	6.1 or higher
OpenSSL	8 5.7 10	97 - 100	150	3.1 or higher
Chrome	11	92 - 100	213	117.0.5938.62 or higher
Apache Tomcat Server	7	91 - 100	236	10.1 or higher
Internet Explorer	15	89 - 100	230	11 or higher
Python	16	84 - 100	202	3.12 or higher
OneDrive	6	81 - 90	202	17.3.6816.0313 or higher
OneDrive	6	80 - 90	202	17.3.6816.0313 or higher
Microsoft Visual C++ 2008	8 5.7 9.0 +2 more	80 - 94	67	9.2 or higher

* Showing data for selected asset tags | 14K Assets

Appendix

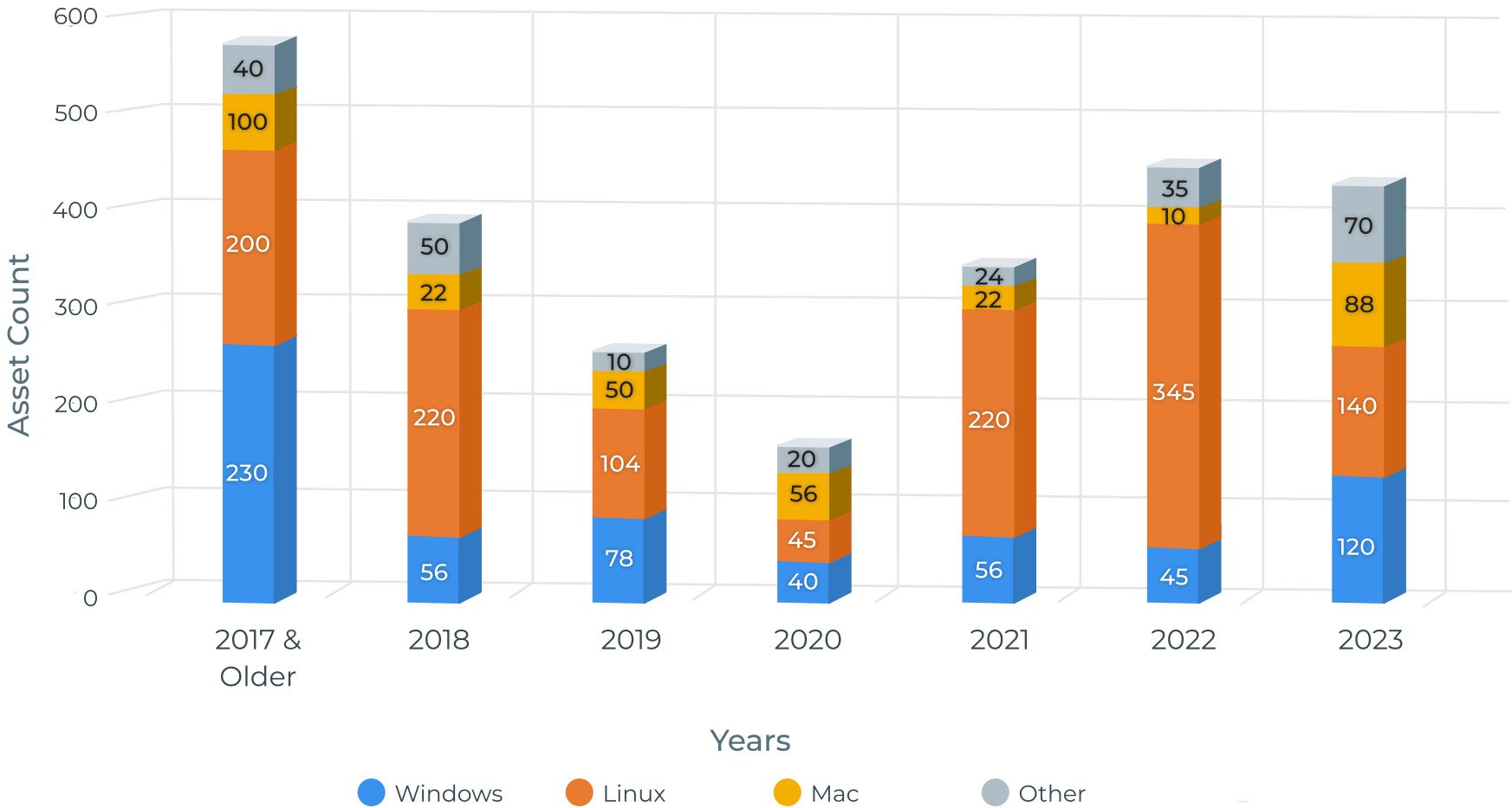
EOS Operating Systems

End-Of-Support Operating Systems

Appendix

Breakdown of EOS Operating Systems by Year

Assets with EOS
Operating Systems
1.85k

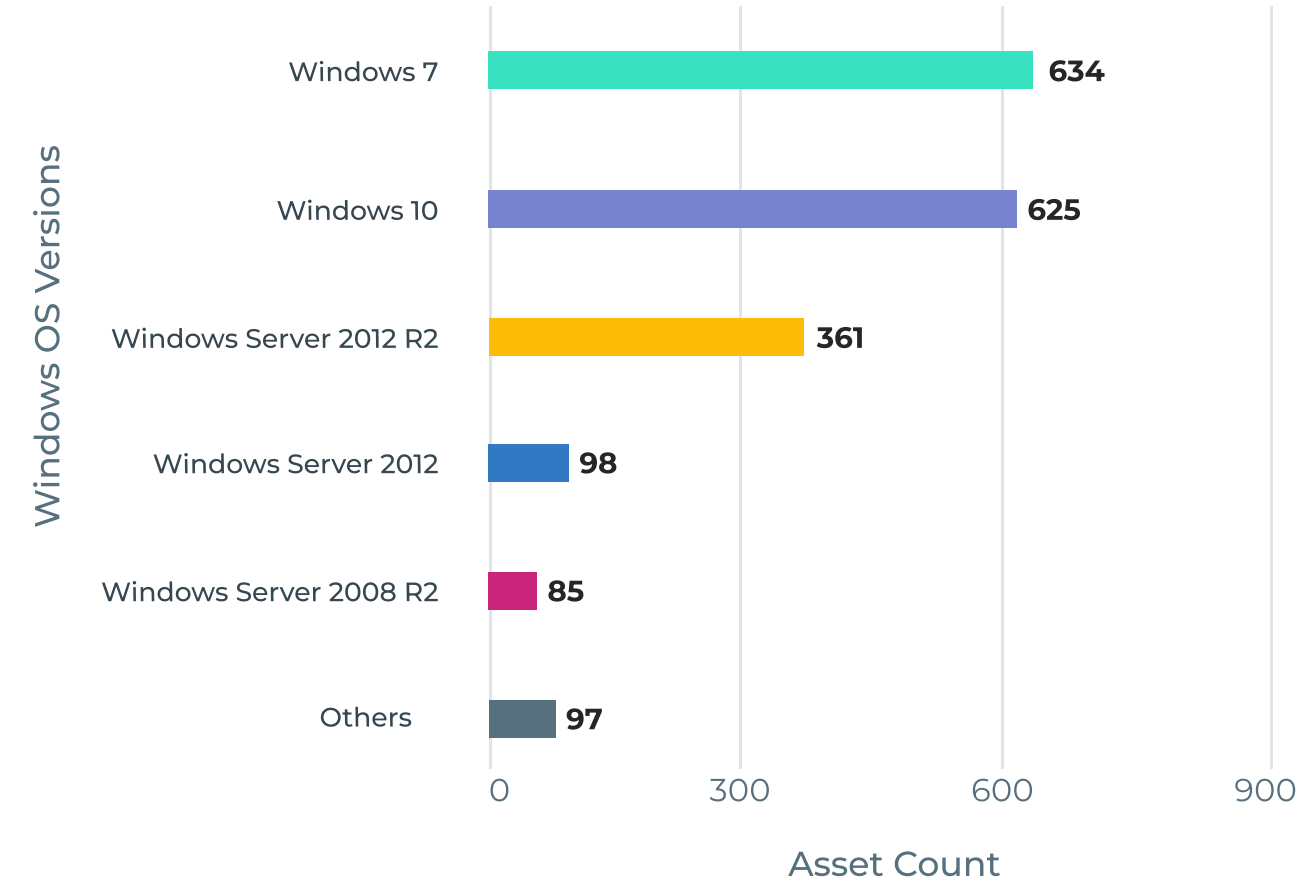


* Showing data for selected asset tags | 14K Assets

End-Of-Support Operating Systems

Appendix

Asset with EOS Windows Version: 1.9k



Top EOS Windows Version by Age

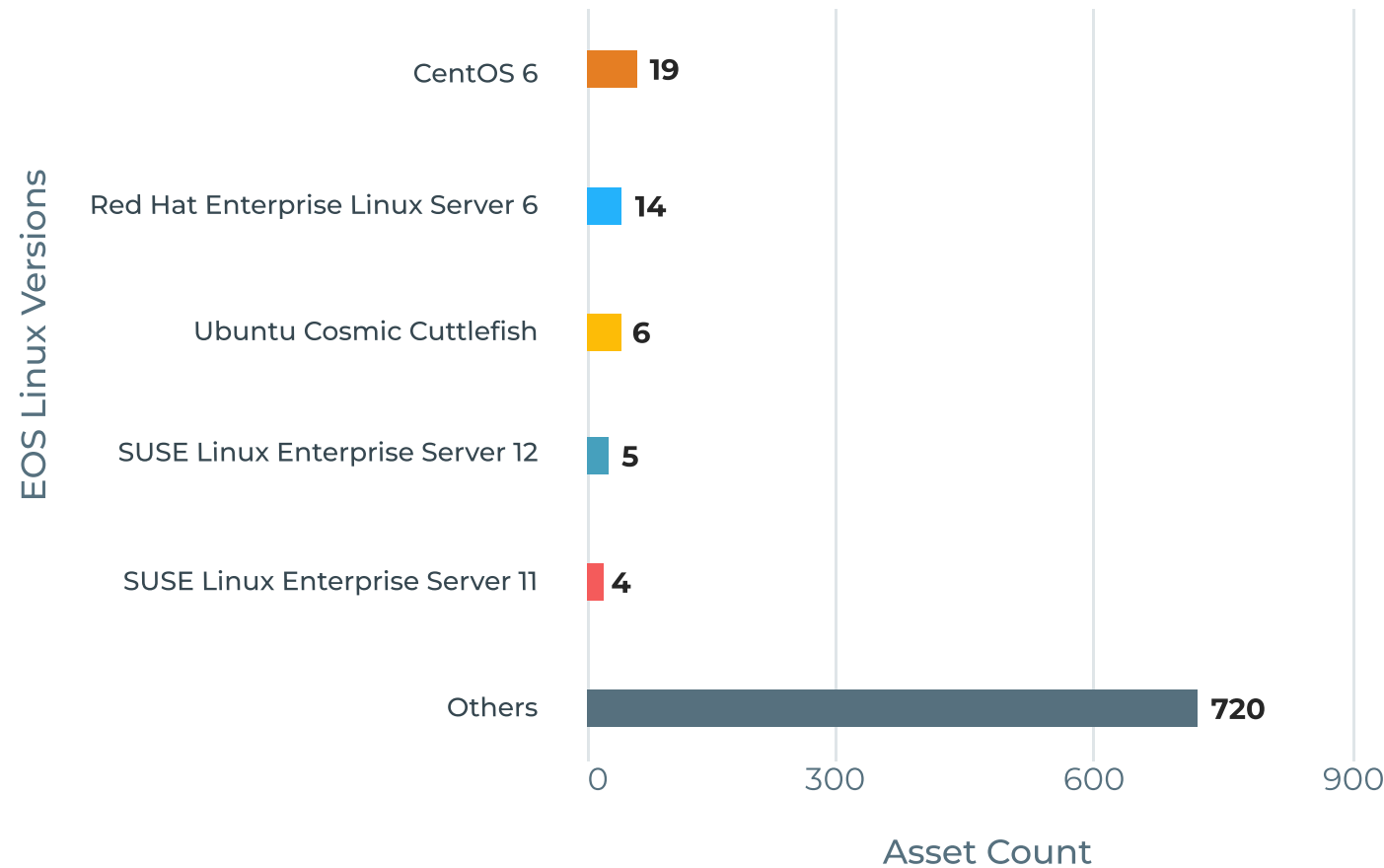
Operating System Name	EOS Date	Asset Count
Microsoft Windows 7 Professional (6.1 SP1 Build 7601) 64-Bit	Jan 13, 2020	314
Microsoft Windows 10 Pro (1803 Build 17134285)	Nov 11, 2029	262
Microsoft Windows 10 Pro (1803 Build 17134) 64-Bit	Nov 11, 2019	246
Microsoft Windows Server 2012 R2 Standard (6.3)	Oct 09, 2023	177
Microsoft Windows 7 (6.1 SP1 Build 7601)	Jan 13, 2020	105
Microsoft Windows 7 Professional (6.1 SP1 Build 7601)	Jan 13, 2020	88
Microsoft Windows Server 2012 R2 Standard (6.3) 64-Bit	Oct 09, 2023	76
Microsoft Windows Server 2012 R2 Datacenter (6.3)	Oct 09, 2023	51

* Showing data for selected asset tags | 14K Assets

End-Of-Support Operating Systems

Appendix

Assets with EOS Linux Version: 768



Top EOS Linux Version by Age

Operating System Name	EOS Date	Asset Count
The CentOS Project CentOS 6.7	Nov 29, 2020	9
Canonical Ubuntu Cosmic Cuttlefish (18.10)	Jul 17, 2020	6
Red Hat Enterprise Linux Server 6.10	Nov 29, 2020	5
Red Hat Enterprise Linux Server 6.6	Nov 29, 2020	5
The CentOS Project CentOS 6.9	Nov 29, 2020	5
Debian Project Debian Buster (10.2)	Dec 20, 2022	3
The CentOS Project CentOS 6.8	Nov 29, 2020	3
Canonical Ubuntu Hirsute Hippo (21.04)	Jan 10, 2020	2

* Showing data for selected asset tags | 14K Assets

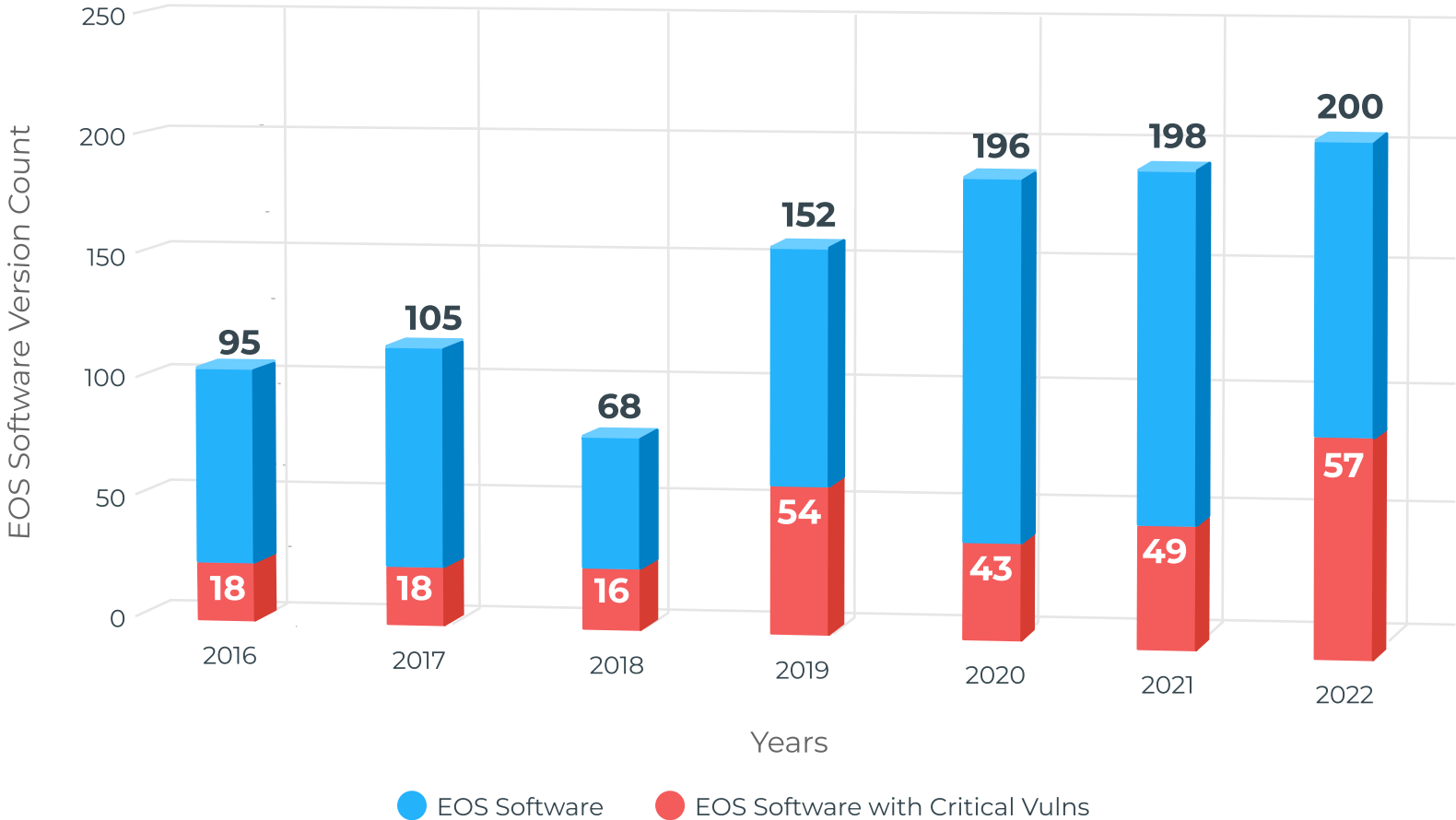
Appendix

End-Of-Support Software

End-Of-Support Software

Appendix

Prioritize EOS Software Versions with Critical Vulns by Year



* Data for selected asset tags

* Showing data for selected asset tags | 14K Assets

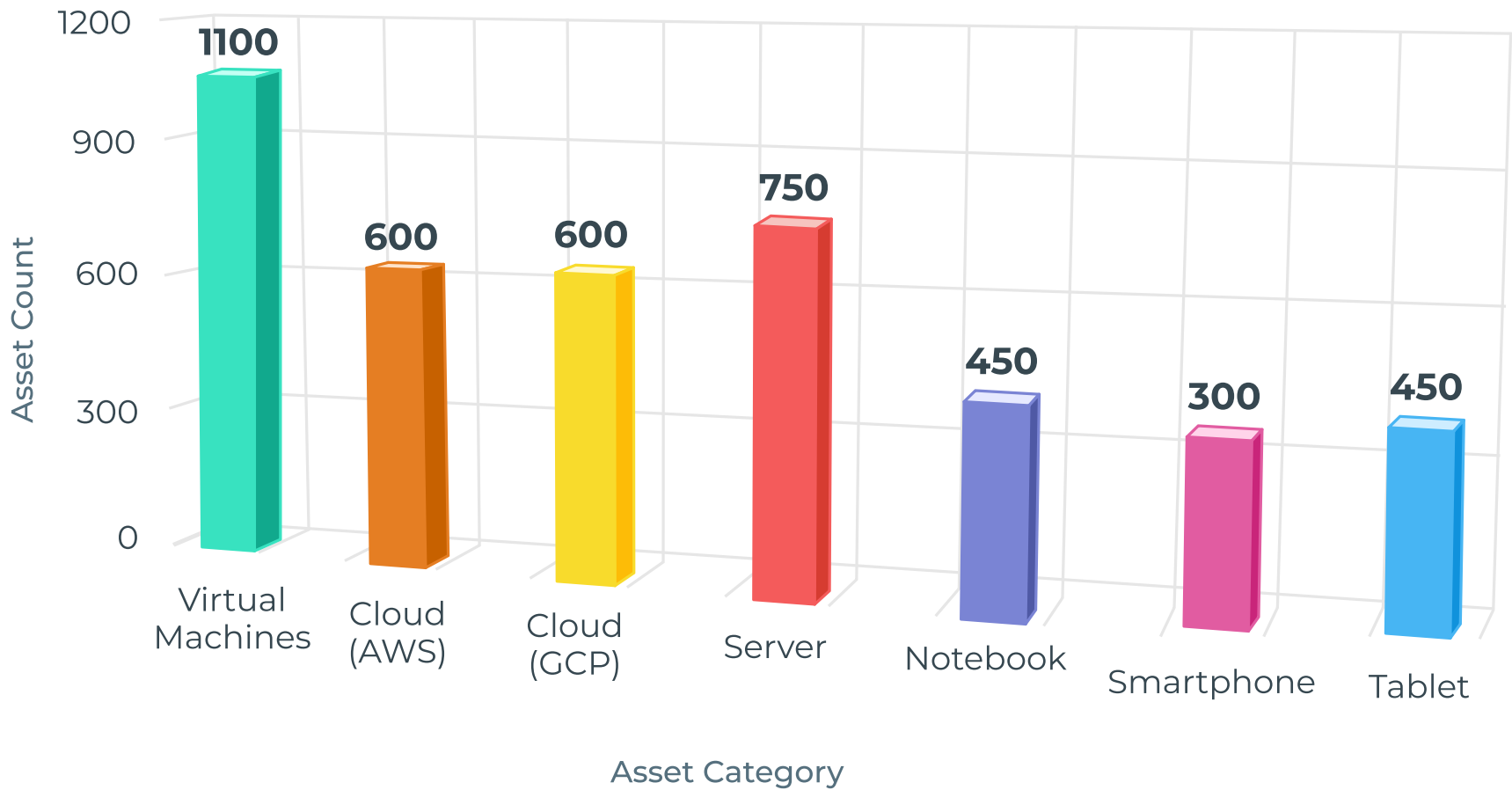
End-Of-Support Software

Appendix

Breakdown of EOS Software by Asset Category



Assets with EOS Software



* Showing data for selected asset tags | 14K Assets

End-Of-Support Software

Prioritize your Tech Debt Risk

Top Software Publishers with EOS Versions

Publisher	Distinct Versions	Instal Count
Stephen Hemminger	4	900
OpenBSD	15	850
Microsoft	16	750
Google	6	700
Apache	8	600
Mozilla	4	550
Mozilla	4	550
Python	6	450
OpenSSL	6	400
GnuWin32 Proiect	2	350

Top Software Products with EOS Versions

Software Product	Publisher	Distinct Versions	Install Count
OpenSSH	OpenBSD	7	776
Chrome	Google	7	776
SQL Server	Microsoft	7	776
Iproute2	Stephen Hemminger	7	776
Mtools	GNU Project	7	776
Java SE Runtime Environment	Oracle	7	776
Mtools	GNU Project	7	776
Iproute2	Stephen Hemminger	7	776
SQL Server	Microsoft	7	776
Chrome	Google	7	776

* Showing data for selected asset tags | 14K Assets

End-Of-Support Software

Focus on Key Software Categories

EOS Database

Software Product	Distinct Versions	Install Count
SQL Server Microsoft	6	1200
Oracle Database Oracle	2	1500
PostgreSQL Server PostgreSQL	1	900
SQL Server Compact Microsoft	3	900
SQL Server Database Engine Microsoft	4	800
MySQL Server Microsoft	1	700

EOS Security Tools

Software Product	Distinct Versions	Install Count
Global Protect Microsoft	7	10
GnuPG Oracle	6	6
Endpoint Security Threat Prevention PostgreSQL	4	6
Endpoint Security Threat Prevention Microsoft	3	4
EMET Microsoft	2	4
GnuPG Microsoft	1	4

* Showing data for selected asset tags | 14K Assets

End-Of-Support Software

Prioritize Tech Debt by Risk

Total Vulnerabilities
Affecting EOS Software
500

CVE	QVS	Severity	Threat intel	No. of Software
CVE-2018-6055	100	<div><div></div><div></div><div></div><div></div><div></div></div>	Malware, CISA KEV	115
CVE-2017-5070	100	<div><div></div><div></div><div></div><div></div><div></div></div>	Ransomware	112
CVE-2018-17463	100	<div><div></div><div></div><div></div><div></div><div></div></div>	Malware, Threat Actors	105
CVE-2019-5825	99	<div><div></div><div></div><div></div><div></div><div></div></div>	CISA KEV	103
CVE-2017-5070	99	<div><div></div><div></div><div></div><div></div><div></div></div>	Threat Actors	98
CVE-2011-3106	97	<div><div></div><div></div><div></div><div></div><div></div></div>	Threat Actors, CISA KEV	98
CVE-2012-2897	97	<div><div></div><div></div><div></div><div></div><div></div></div>	Ransomware	94
CVE-2013-2883	97	<div><div></div><div></div><div></div><div></div><div></div></div>	CISA KEV	91
CVE-2010-2300	95	<div><div></div><div></div><div></div><div></div><div></div></div>	Malware	88
CVE-2019-5789	95	<div><div></div><div></div><div></div><div></div><div></div></div>	Malware, CISA KEV	87

* Showing data for selected asset tags | 14K Assets

Other Usecases

End-of-Support Operating System

Monitor Upcoming EOS Operating Systems



All Operating Systems are up to date

You have no TechDebt in End-of-Support Operating System!

Scenario:

If the customer has no Tech Debt for OS

Tech Debt Summary

Preview of Your Tech Debt

This is an outline of EOS Operating System (OS), Obsolete Hardware and EOS Software.

Assets with Tech Debt

6K (45%) of 14K

EOS Operating System

Assets with EOS Operating System 1.85K

Critical Assets with EOS Operating System -

Obsolete Hardware

Assets with Obsolete Hardware 392

Critical Assets with Obsolete Hardware 91

EOS Software

Assets with EOS Software 5.8K

Critical Assets with EOS Software 696

Scenario 1:
If there is no critical Assets with EOS operating system

*Critical Assets are assets with Asset Criticality Score (ACS) = 4&5 | * Showing data for selected asset tags | 14K Assets

End-Of-Support Operating System

Scope of Your Tech Debt

There are no Critical Assets with EOS Operating Systems

Assets with EOS
Operating Systems

1.85k

13%

1.85K/14K Assets with EOS Operating System are Servers (600) and Clients (100)

⌚

200
of 14K

Additional Assets that will have EOS Operating System in next 9 months

5+
years

Average EOS age for your environment > 5 years
11 OS versions with EOS older than 8 years
5 OS versions with EOS older than 10 years

Scenario 1:
If there is no critical Assets with EOS operating system

* Showing data for selected asset tags | 14K Assets



Qualys
Recommends

Prioritize OS upgrade for 1.85K Assets with EOS OS

Proactively plan upgrade for 200 Assets with upcoming EOS in next 9 months. [View Page XX](#)

Tech Debt Summary

Preview of Your Tech Debt

This is an outline of EOS Operating System (OS), Obsolete Hardware and EOS Software.

Assets with Tech Debt

6K (45%) of 14K

EOS Operating System

Assets with EOS Operating System 1.85K

Critical Assets with EOS Operating System 800

Obsolete Hardware

Assets with Obsolete Hardware 392

Critical Assets with Obsolete Hardware -

EOS Software

Assets with EOS Software 5.8K

Critical Assets with EOS Software 696

Scenario 2:
There in no Critical Assets with Obsolete Hardware

*Critical Assets are assets with Asset Criticality Score (ACS) = 4&5 | * Showing data for selected asset tags | 14K Assets

Obsolete Hardware

Scope of Your Tech Debt

There in no **Critical Assets** with **Obsolete Hardware**

Assets with
Obsolete Hardware

392

2.8%

392/14K Assets with Obsolete Hardware are Servers (42) and Laptops (32)

 300
of 14K

Additional assets will have Obsolete Hardware in next 12 months

5+
years

Average hardware obsolescence age > 5 years.
12 hardware models with hardware obsolescence age more than 8 years

Scenario 1:
There in no **Critical Assets** with **Obsolete Hardware**

* Showing data for selected asset tags | 14K Assets



**Qualys
Recommends**

Prioritize **upgrading hardware** for
392 Assets

Proactively plan **hardware refresh** for **300 additional Assets**
with upcoming obsolete hardware in **next 12 months**

Tech Debt Summary

Preview of Your Tech Debt

This is an outline of EOS Operating System (OS), Obsolete Hardware and EOS Software.

Assets with Tech Debt

6K (45%) of 14K

EOS Operating System

Assets with EOS Operating System	1.85K
Critical Assets with EOS Operating System	800

Obsolete Hardware

Assets with Obsolete Hardware	392
Critical Assets with Obsolete Hardware	91

EOS Software

Assets with EOS Software	5.8K
Critical Assets with EOS Software	-

Scenario 3:
If there is no critical Assets with EOS Software

*Critical Assets are assets with Asset Criticality Score (ACS) = 4&5 | * Showing data for selected asset tags | 14K Assets

End-of-Support Software

Scope of Your Tech Debt

Prioritize **120 EOS Software Versions** with **Critical Vulns** on **540 Assets**

Assets with EOS Software

5.8K

41%	5.85K/14K of your assets have at least one EOS Software , which is typically not covered for security patches
35K	Total EOS Software Installations , across 5.85K assets
5%	696/14K are Assets, with 1.2K total EOS installations
1.1K	Software Versions are EOS, for 900 distinct Software Products
120	EOS Software Versions with Critical Vulns , affecting 540 Assets
2+ years	60% of EoS Software in your environment is older than 2 years

Scenario 1:
If there is no critical Assets with EOS Software

* Showing data for selected asset tags | 14K Assets



Qualys
Recommends

Prioritize **upgrade** for 120 EoS software versions with **critical vulns** on 540 assets

Proactively plan **upgrade** for 34 Software Versions affecting Assets with upcoming EOS in next 6 months.

Tech Debt Summary

Preview of Your Tech Debt

This is an outline of EOS Operating System (OS), Obsolete Hardware and EOS Software.

Assets with Tech Debt

6K (45%) of 14K

EOS Operating System

Assets with EOS Operating System -

Critical Assets with EOS Operating System -

Obsolete Hardware

Assets with Obsolete Hardware 392

Critical Assets with Obsolete Hardware 91

EOS Software

Assets with EOS Software 5.8K

Critical Assets with EOS Software 696

Scenario 4D:
What screen and message should be shown to the customer who has upgraded OS. of all assets having EOS OS and count reaches 0.

*Critical Assets are assets with Asset Criticality Score (ACS) = 4&5 | * Showing data for selected asset tags | 14K Assets

Tech Debt Summary

Preview of Your Tech Debt

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6K (45%) of 14K

EOS Operating System

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Obsolete Hardware

Assets with Obsolete Hardware	392
Critical Assets with Obsolete Hardware	91

EOS Software

Assets with EOS Software	-
Critical Assets with EOS Software	-

Scenario 4E:
What screen and message should be shown to the customer who has upgraded. Software of all assets having EOS Software and count reaches 0.

*Critical Assets are assets with Asset Criticality Score (ACS) = 4&5 | * Showing data for selected asset tags | 14K Assets

Tech Debt Summary

Preview of Your Tech Debt

This is an outline of EOS Operating System (OS), Obsolete Hardware and EOS Software.

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6K (45%) of 14K

EOS Operating System

Assets with EOS Operating System -

Critical Assets with EOS Operating System -

Obsolete Hardware

Assets with Obsolete Hardware 392

Critical Assets with Obsolete Hardware 91

EOS Software

Assets with EOS Software -

Critical Assets with EOS Software -

Scenario 4F:
We need screens for at least one combination where customer has 0 count in any 2 categories out of 3.

*Critical Assets are assets with Asset Criticality Score (ACS) = 4&5 | * Showing data for selected asset tags | 14K Assets

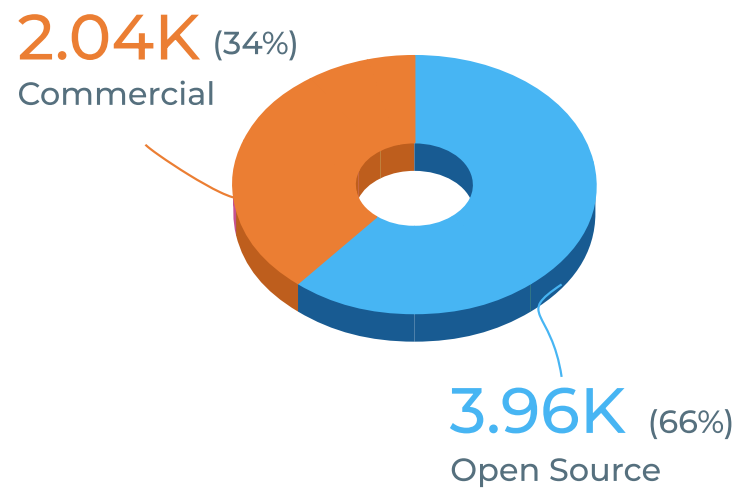
End-Of-Support Software

Scope of Your Tech Debt

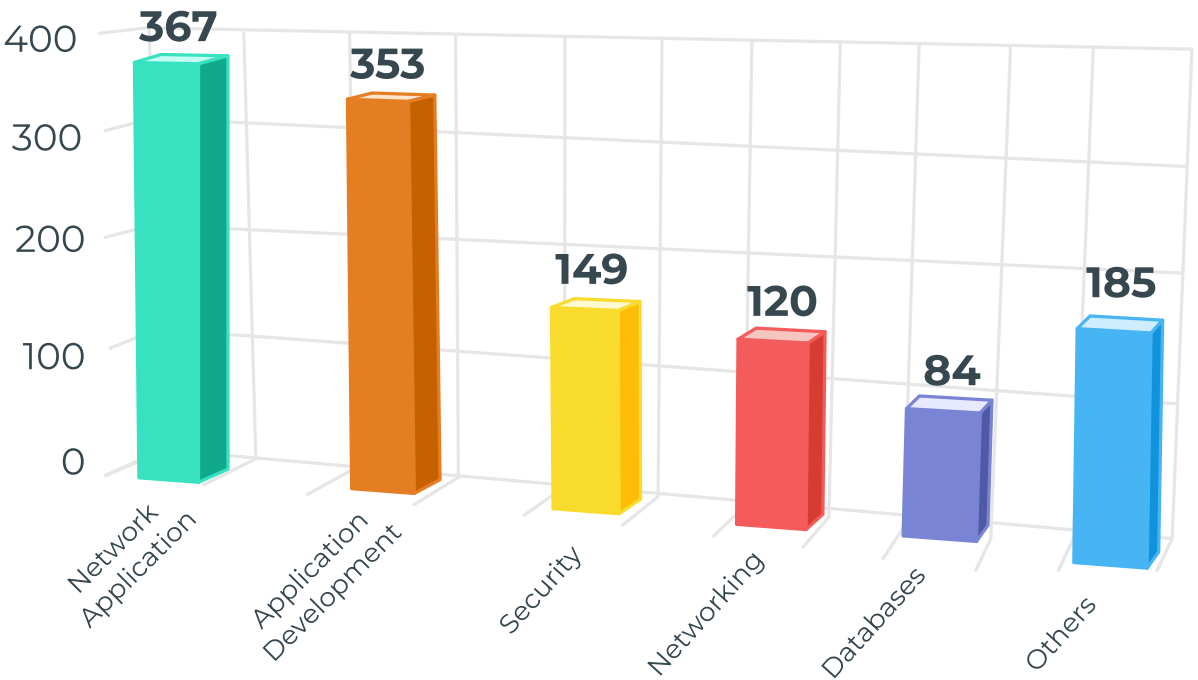
Breakdown of EOS Software by Licenses & Categories

EOS Software by Licenses

Assets with EOS Software
999.9K



EOS Software by Category



Scenario 4:
Long Count: Assets with EOS Software 999.9K

* Showing data for selected asset tags | 14K Assets

End of Tech Debt Report

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