Technical Support Appliance Summary Report

Company:	IBM_TEST_OK_TO_CLOSE		
TSA Entity ID:	EPS/DALD01194338		
Appliance Name:	sshost18hptsa		
Version:	3.0.0.0	Transmission Date:	Aug 10, 2023
Latest Version:	2.11.0	Report Run Date:	Mon, August 14, 2023

The Technical Support Appliance solution includes device discovery and support-based analytics, and promotes a collaborative relationship with IBM TLS to develop insights that are important to you. The reports provide an aggregation point for your datacenter device and operating system inventory.

Recommendations and storage<->host recipes are a valuable starting point when considering maintenance windows and can assist with strategic planning. As always, IBM recommends that you evaluate and prioritize new features and fixes before implementing code updates.

Information provided in this report is summarized in the TSA Detail Report of the same date.
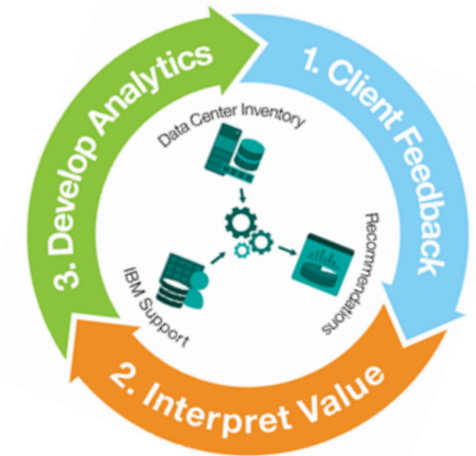
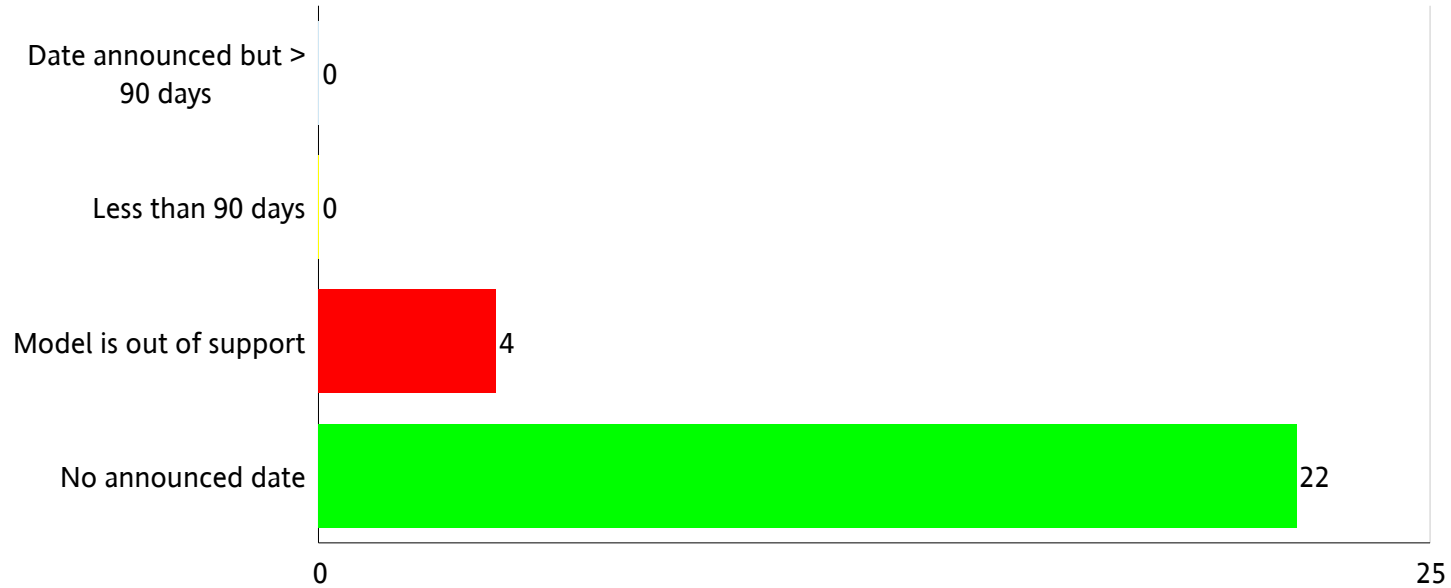## Hardware Support Coverage Status (Warranty or Maintenance Contract)
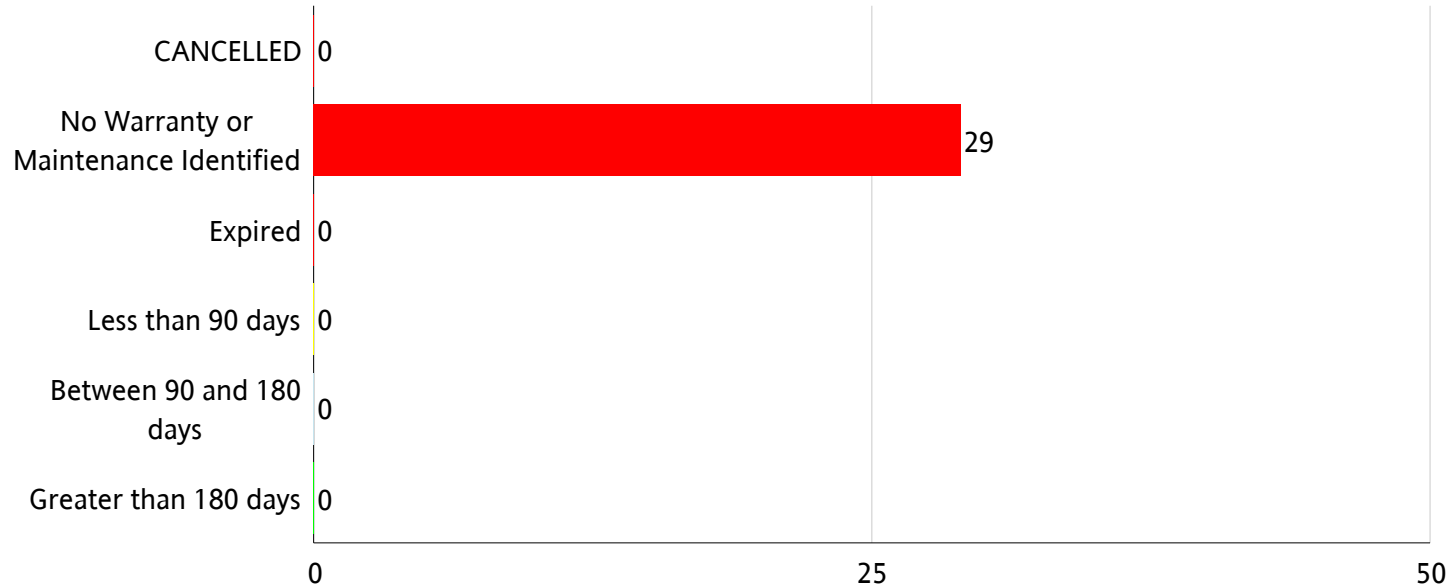
Please refer to the TSA Detail Report ("Contract Detail" tab) for additional details behind these contracts. Contract data is only available for servers/ devices that are registered by their specific machine type and serial number.

No Warranty or Maintenance Identified means that no warranty or follow on maintenance contract was found that matches a TSA identified machine/serial number.

The value should match the number of entries highlighted with red bars in the No Contract Identified column on the Contract Summary tab of the spreadsheet. If it does not, it may signify that a software maintenance contract exists without hardware maintenance.

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Hardware Lifecycle Status – Systems with Model End of Support Date Announced

Only TSA identified IBM and Lenovo machines are counted in above chart.
Please refer to the TSA Detail Report ("Contract Detail" tab) for additional details

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IBM Power Systems Recommendations
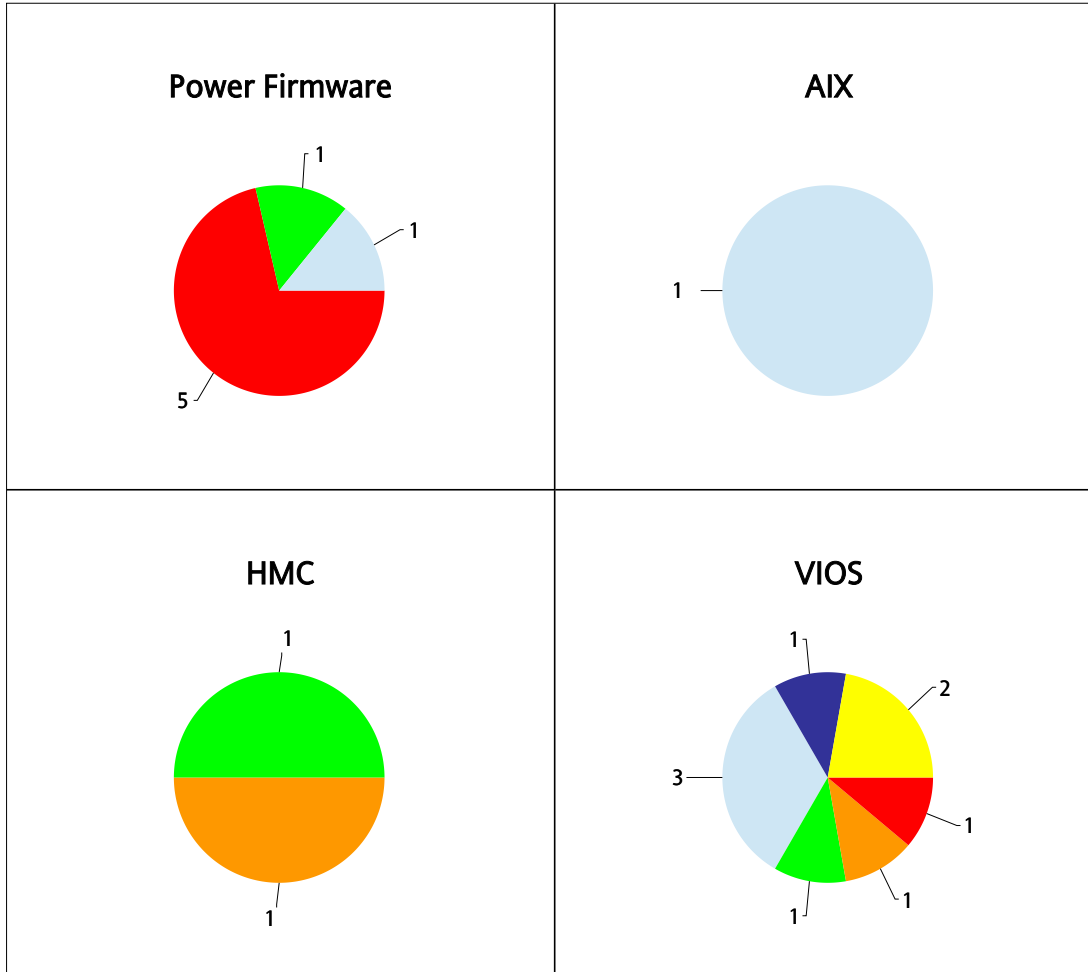
Power Firmware

AIX

HMC

VIOS

Section	Count
End of Service reached - Installed version is end-of-service and there are Update and/or Upgrade Recommendations available. ("Update EOS date" may reflect extended support contracts.)	6
End of Service reached - Installed version is end-of-service and there are no Update or Upgrade Recommendations.	2
Nearing End of Service - Installed version has less than 6 months of service remaining.	2
Supported Level - Installed version is supported for at least 6 months, with a recommendation to move to an updated level.	6
Recommended Level - Installed version is supported for at least 6 months, and it is already at a recommended or later level.	3
Unknown Version	0
Overall - Total	**19**

Please refer to the TSA Detail Report ("Power Firmware" and "AIX VIOS HMC" tabs) for the detailed recommendations available for these devices.

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IBM Power Systems Software Recommendations

GPFS: No Data Found	HACMP: No Data Found
PowerSC: No Data Found	

Section	Count
End of Service reached - Installed version is end-of-service and there are Update and/or Upgrade Recommendations available. ("Update EOS date" may reflect extended support contracts.)	0
End of Service reached - Installed version is end-of-service and there are no Update or Upgrade Recommendations.	0
Nearing End of Service - Installed version has less than 6 months of service remaining.	0
Supported Level - Installed version is supported for at least 6 months, with a recommendation to move to an updated level.	0
Recommended Level - Installed version is supported for at least 6 months, and it is already at a recommended or later level.	0
Unknown Version	0
Overall - Total	**0**

Please refer to the TSA Detail Report ("GPFS HACMP POWERSC" tab) for the detailed recommendations available for these devices.

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Linux Recommendations
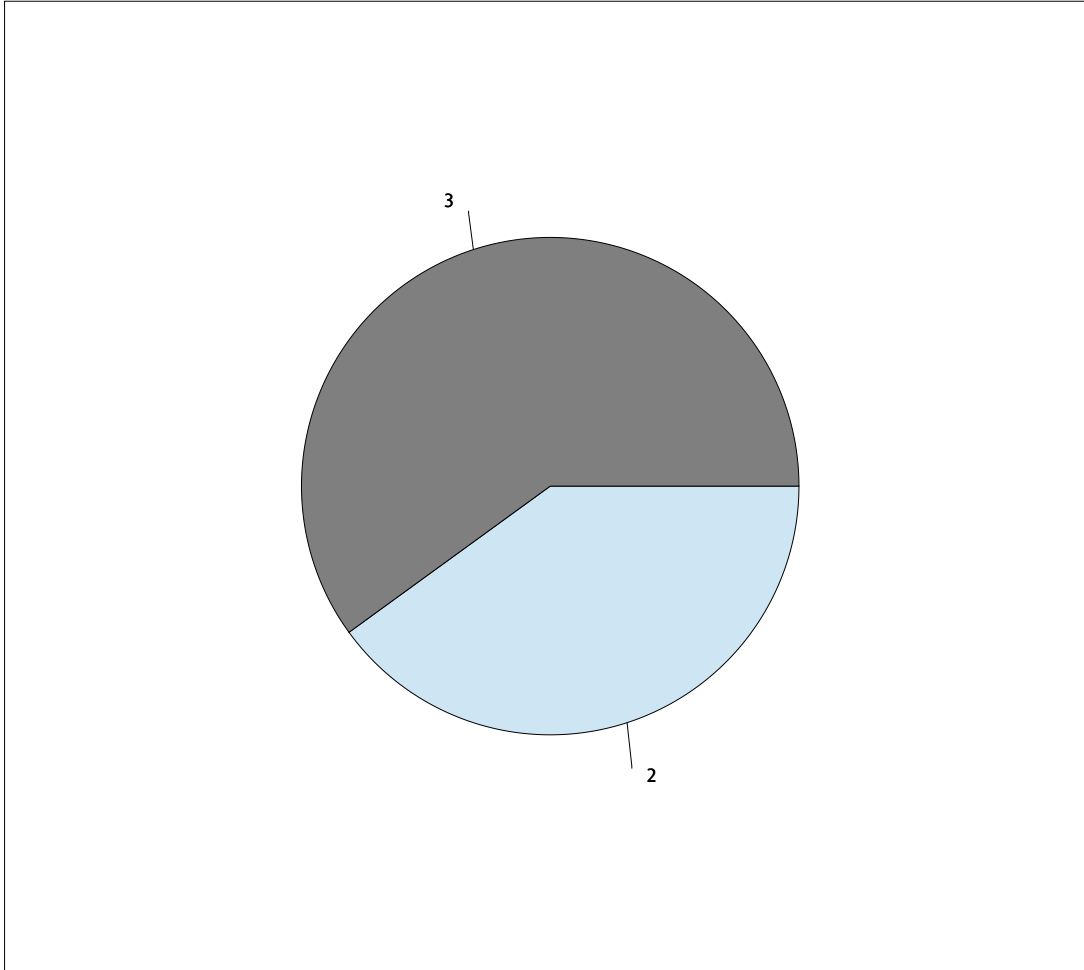
RedHat

3
14

Suse

4

Section	Count
End of Service reached – no future fixpacks: installed level is end of service with no upgrade recommendation. ("Update EOS date" may reflect extended support contracts.)	0
Update/Upgrade available: installed level has less than 6 months remaining of service and there is a recommended upgrade available.	0
Latest Level: Installed level is at the latest level and is supported for at least 6 more months	3
Complete Installed Version Release Level Unknown	18
Overall – Total	**21**

Ubuntu: No Data Found

Other: No Data Found

Please refer to the TSA Detail Report ("Linux Recommendations" tab) for the detailed recommendations available for these devices.

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Storage Device Recommendations
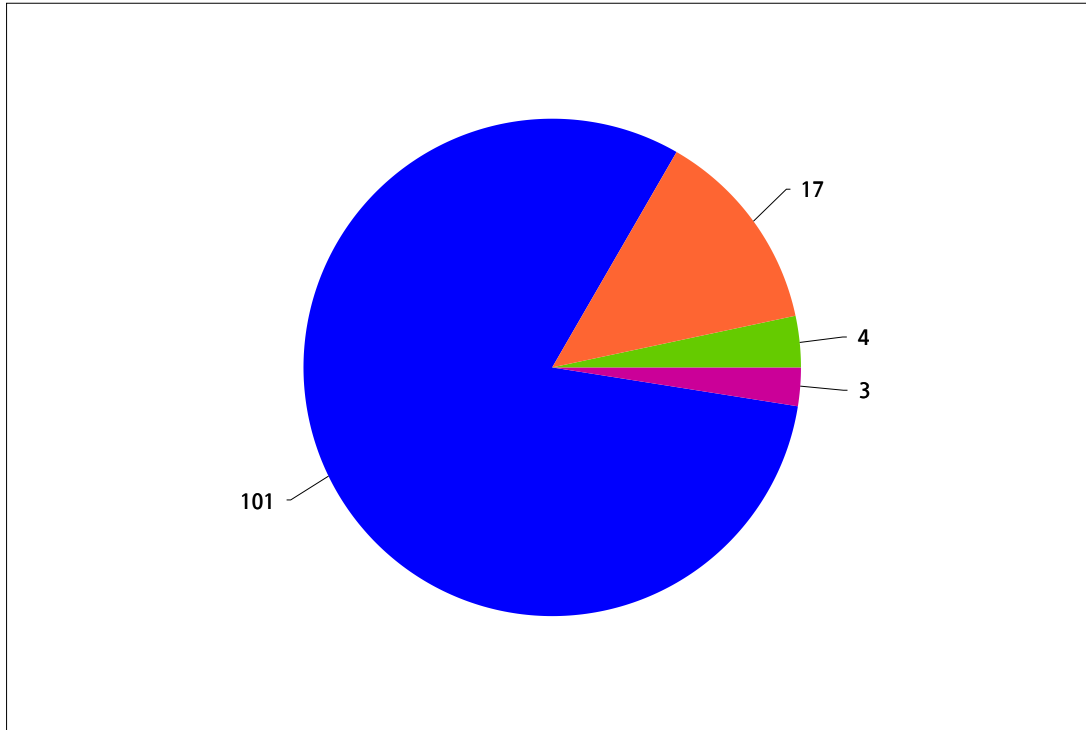
Section	Count
Code below supported level and/or product end of life	0
Between minimum and recommended	0
At or above recommended	2
Unrecognized	0
No recommendation	3
Overall - Total	5

Please refer to the TSA Detail Report ("Storage Device Recommendation" tab) for the detailed recommendations available for these devices.

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Physical and Virtual Devices by Manufacturer

Manufacturer	# of Machines
IBM	101
Lenovo	17
Dell	1
EMC	1
F5	1
Fortinet	1
HP	0
Detected	3
Total Devices Identified	**125**

Please refer to the TSA Detail Report ("Identified Devices" and "Detected Devices" tabs) foradditional details behind these physical and virtual devices. This chart summarizes the devices in those tabs at the distinct machine level. Devices that represent less than 5% of the total have been aggregated into the Other category in the pie chart. The "Detected" device count refers to ip address endpoints that TSA has detected as active on the network, even without valid system credentials. When correct credentials are configured in TSA, it will discover a more complete system inventory (including manufacturer, machine type, etc), and the device entry is moved from the Detected tab to the Identified tab.

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Detected by Possible Operating System

Possible Operating System	Version	# Detected
Cisco embedded		1
Linux		1
Overall – Total		**2**

This tab shows those machines in which no valid credentials were provided and no mfg, model or serial number can be discovered. For other tabs to be populated additional credentials will need to be provided. TSA tries to identify what possible operating system is running on the endpoint based on which ports are open. For more details on Possible Operating System, please reference the Detected tab in the TSA Detail Report

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Identified by Operating System

Operating System	Version	# Identified	Operating System	Version	# Identified
AIX	7200-05-04	1	Red Hat Enterprise Linux 8 (64-bit)	8.x	3
AIX	7300-02-00	4	Red Hat Enterprise Linux 9 (64-bit)	9.x	3
Debian GNU/Linux 10 (64-bit)		1	SLES	15-SP4	1
Debian GNU/Linux 8 (64-bit)		1	SUSE Linux Enterprise 15 (64-bit)	15.x	4
Fabric OS	v7.4.2g	1	TMOS	13.1.0.3	1
FortiOS	5.6.2	1	Ubuntu 4.15.0-153-generic 18.04.5 LTS	BeaveUbuntu	1
Isilon OneFS	v8.1.0.4	1	Ubuntu Linux (64-bit)		6
Linux	Red Hat Enterprise Linux release 8.7 (Ootpa)	2	VIOS	2.2.3.52	1
Linux	Red Hat Enterprise Linux release 8.8 (Ootpa)	1	VIOS	2.2.6.30	1
OS/400	V7R2M0	3	VIOS	3.1.0.40	1
OS/400	V7R3M0	6	VIOS	3.1.2.21	2
OS/400	V7R4M0	22	VIOS	3.1.3.14	2
OS/400	V7R5M0	14	VIOS	3.1.3.20	2
OS/400	V7R6M0	2	VIOS	3.1.3.21	1
Red Hat Enterprise Linux 4.18.0-193.el8.ppc64le	(Ootpa)	1	VIOS	3.1.4.10	1
Red Hat Enterprise Linux 4.18.0-372.9.1.el8.ppc64l8.6 (Ootpa)	(Ootpa)	1	VIOS	3.1.4.20	1
Red Hat Enterprise Linux 4.18.0-425.10.1.el8_7.ppc8.6 (Ootpa)	(Ootpa)	1	VMware ESXi	VMware ESXi 6.0.0 build-6921384	2
Red Hat Enterprise Linux 5.14.0-284.11.1.el9_2.ppc9.2 (Plow)	(Plow)	1	VMware ESXi	VMware ESXi 6.0.0 build-7967664	1
Red Hat Enterprise Linux 6 (64-bit)	6.x	4	VMware ESXi	VMware ESXi 6.5.0 build-16576891	2
Red Hat Enterprise Linux 7 (64-bit)	7.x	4	VMware ESXi	VMware ESXi 7.0.3 build-21424296	1
Overall - Total					**109**

For more details on Operating Systems, please reference the Identified tab in the TSA Detailed Report.

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