



# **DoIT Operations Monthly Report**

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# January 2024

Published March 5, 2024

# GARTNER METRICS

Metric	2023 (Median) [Interquartile range]	2024 (Median) [Interquartile range]
Abandonment Rate	7.0% [3.0%-10%]	8.0% [4.4%-13%]
Cost per Endpoint	\$851 [\$629-\$1281]	\$891 [\$647-\$1278]
Endpoints per Technician	394 [247-576]	392 [243-552]
First Contact Resolution Rate	69% [60%-80%]	69% [60%-80%]
Linux Servers per FTE	223 [153-385]	265 [151-401]
Windows Servers per FTE	317 [180-498]	265 [140-443]

## Icons used in this report

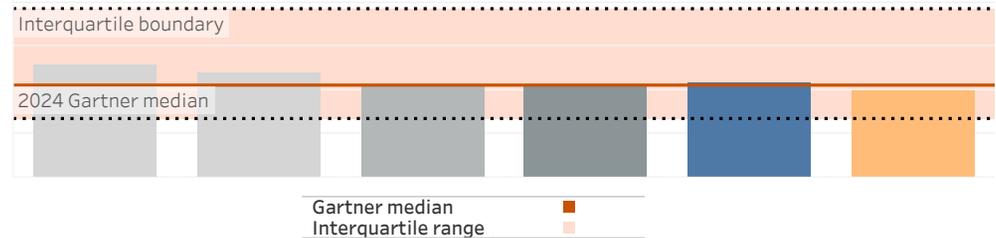


Factors influencing data this month; As identified and provided by data owners.



Notes defining and providing context to the data.

## Interquartile Highlighting



## DoIT OPERATIONS: APPLICATIONS INFRASTRUCTURE SERVICES SERVICE AVAILABILITY

### Last 12 months

Service	Target	Feb %	Mar %	Apr %	May %	Jun %	Jul %	Aug %	Sep %	Oct %	Nov %	Dec %	Jan %
API Manager	99.00%	100.00	★97.27	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Confluence Wiki	99.00%	100.00	100.00	★96.22	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	99.63
Enterprise Content Management	99.00%	100.00	100.00	100.00	★96.46	100.00	100.00	100.00	100.00	100.00	★97.13	99.78	100.00
Gitlab Repository Services	99.00%	99.13	★43.01	★88.56	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
JIRA Issue Tracking	99.00%	★97.67	100.00	★97.08	★98.77	100.00	100.00	100.00	100.00	100.00	100.00	100.00	★96.77
Knowledgebase (KB)	99.00%	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	★94.43	★87.48	100.00	100.00
My UW	99.00%	99.95	100.00	100.00	99.35	100.00	99.92	100.00	99.77	99.39	100.00	100.00	100.00
NetID Login	99.90%	100.00	100.00	100.00	100.00	★94.11	100.00	100.00	100.00	100.00	★99.79	100.00	100.00
Shared Web Hosting	99.00%	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	99.69	99.93	100.00
Wisc Web	99.00%	99.87	100.00	99.97	99.88	99.72	100.00	100.00	100.00	99.90	100.00	100.00	★97.07

#### Target Colors

■ ★ Below Target    
 ■ Above Target



WiscWeb - We opened two multi-day outages for the Applebot issue that arose in late January/early February. No users reported sites down at this time, but outages were opened to communicate potential instability. Applebot sent large amounts of traffic to our sites every hour on the half hour, which could have resulted in a user being unable to access their website. Additional details available upon request.



JIRA Issue Tracking - The JIRA application stopped responding for ~3hr early morning on 1/11. Service was restored when the application was rebooted.

# DoIT OPERATIONS: APPLICATION INFRASTRUCTURE SERVICES - IAM SERVICES OVERVIEW

## Help Desk Resolution Rates for IAM Services During January

	All Incidents	% of Incidents	Incidents Created by HD	Resolved by HD	* HD % Resolution	** First Contact Resolution Rate	*** Customer Satisfaction
Multi-Factor Authentication (MFA)	1,866	41.8%	1,860	1,752	94.0%	92.1%	97.8%
NetID Account Management	2,172	48.7%	2,153	1,797	★ 83.4%	89.1%	94.0%
All IAM Incidents	4,451	100.0%	4,066	3,576	87.8%	78.3%	97.4%

**IAM Target: HD % Resolution**

- ★ Below 85.0%
- At or above 85.0%

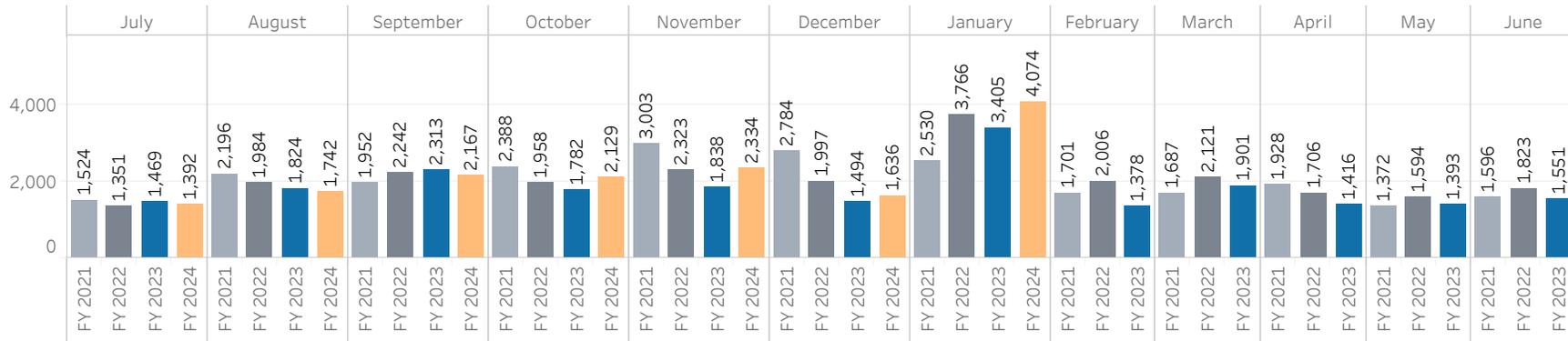
**2023 Gartner Metrics: First Contact Resolution**

- At or above 70%

**IAM Target: Customer Satisfaction**

- At or above 85.0%

## IAM Services Annual Help Desk Contacts



NOTES: \* HD % Resolution = incidents resolved by the Help Desk rather than being escalated to a specific service team  
 \*\* First Contact Resolution has been defined as a phone incident opened by the Help Desk and resolved by the Help Desk, within one hour of the incident being created. As only phone incidents are looked at this metric may be blank if no phone incidents were reported for that service during the previous month.  
 \*\*\* Survey respondents rate satisfaction on a 7 point scale in response to: 'We value your opinion. How was your experience with us?'

# DoIT OPERATIONS: APPLICATION INFRASTRUCTURE SERVICES - WEB PLATFORM SERVICES OVERVIEW

## Help Desk Resolution Rates for WPS Services During January

	All Incidents	% of Incidents	Incidents Created by HD	Resolved by HD	* HD % Resolution	** First Contact Resolution Rate	*** Customer Satisfaction
KnowledgeBase (KB)	58	2.9%	5	1	20.0%		
MyUW Madison/System	243	12.0%	196	145	★73.5%	95.4%	92.2%
Shared Tools	6	0.3%	4	3	75.0%		100.0%
Web Hosting	134	6.6%	6	2	33.3%		
WiscWeb	40	2.0%	33	8	★24.2%		

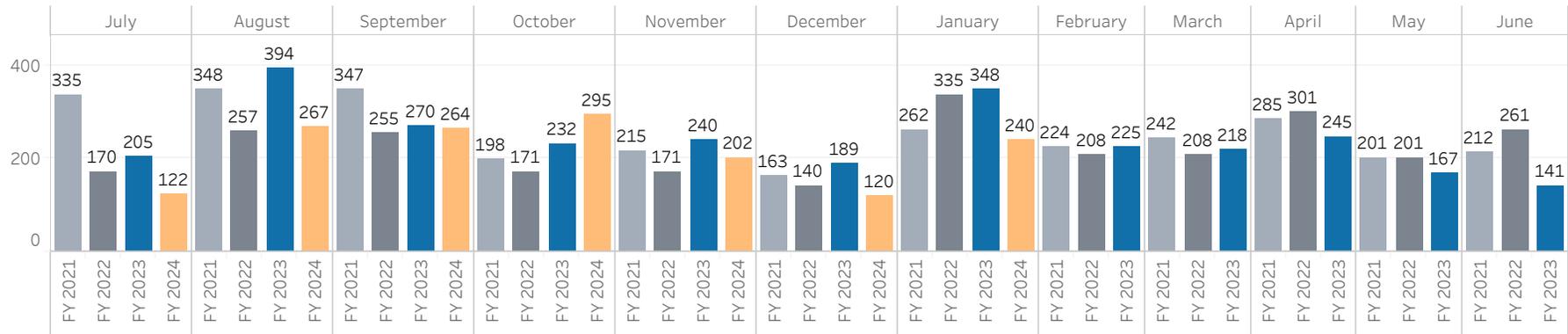
AIS-WPS Targets:  
HD % Resolution by Service

MyUW Madison/System - 85%  
Shared Tools - 15%  
UW Madison Knowledgebase - 10%  
Web Hosting - 5%  
WiscWeb - 45%

2023 Gartner Metrics:  
First Contact Resolution  
■ At or above 70%

WPS Services Target:  
Customer Satisfaction  
■ At or above 85.0%

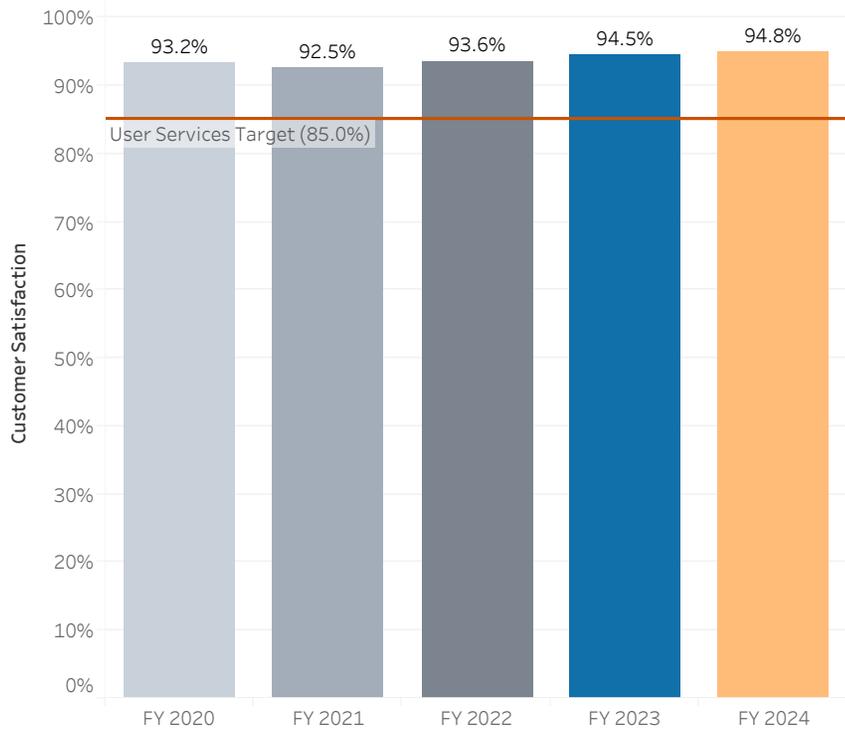
## WPS Services Annual Help Desk Contacts



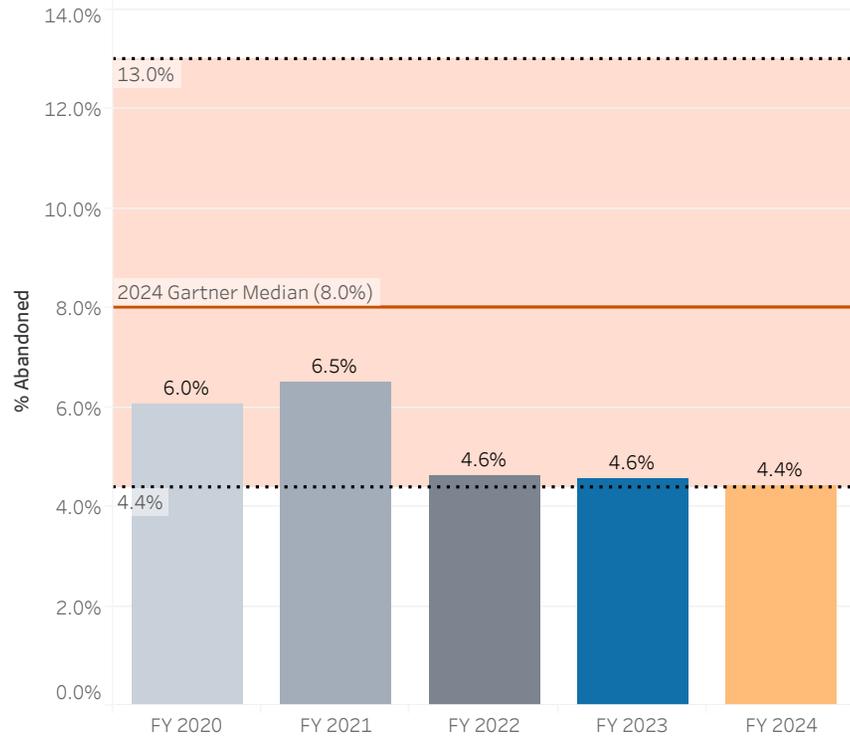
NOTES: \* HD % Resolution = incidents resolved by the Help Desk rather than being escalated to a specific service team  
 \*\* First Contact Resolution has been defined as a phone incident opened by the Help Desk and resolved by the Help Desk, within one hour of the incident being created. As only phone incidents are looked at this metric may be blank if no phone incidents were reported for that service during the previous month.  
 \*\*\* Survey respondents rate satisfaction on a 7 point scale in response to: 'We value your opinion. How was your experience with us?'

## DoIT OPERATIONS: USER SERVICES - HELP DESK OVERVIEW

### Customer Satisfaction



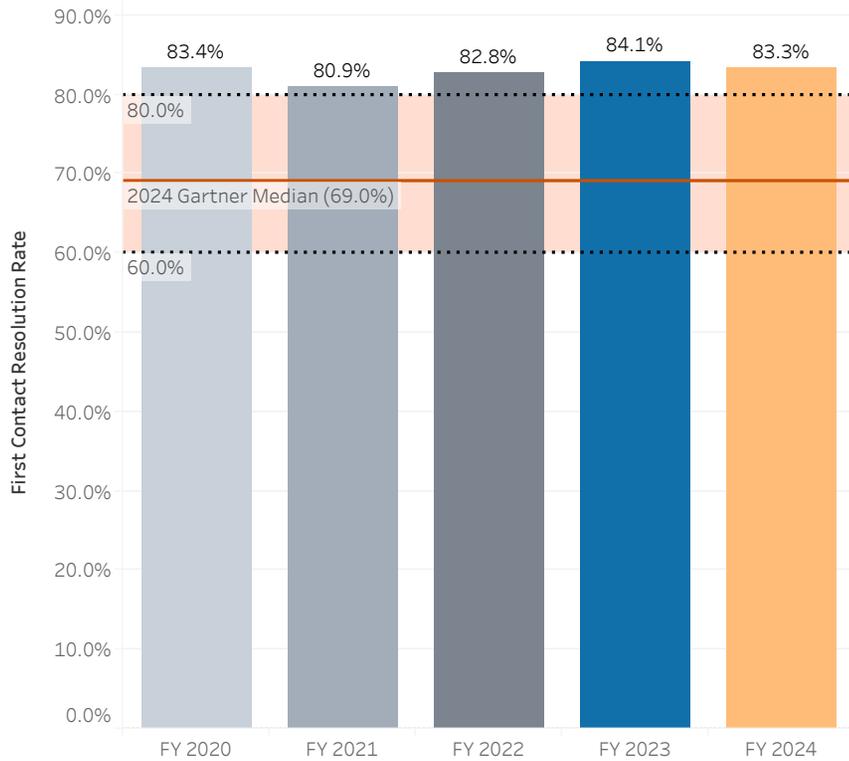
### Help Desk Abandonment Rate



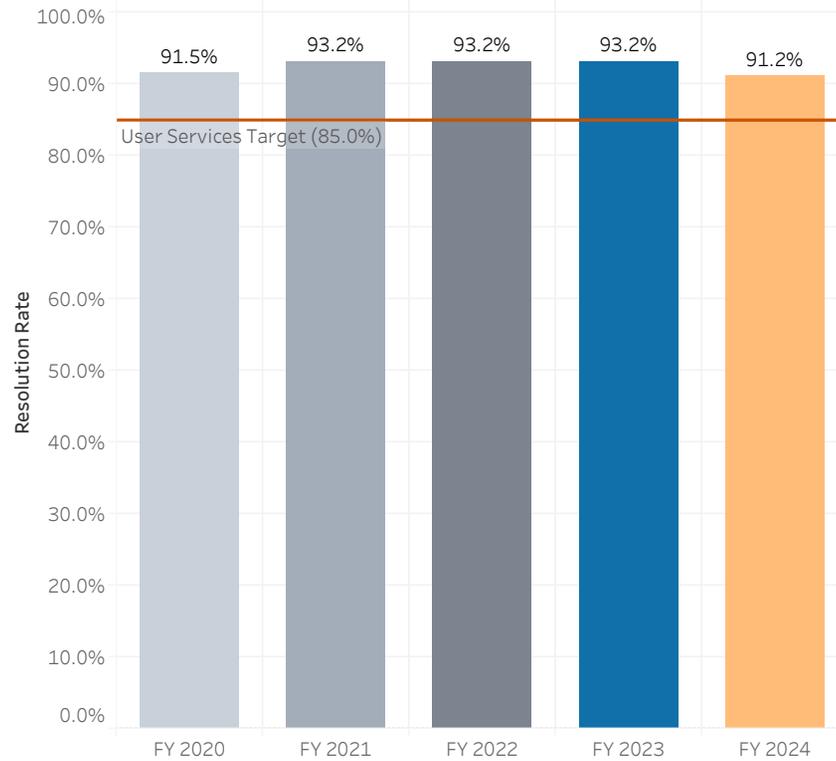
NOTES: Survey respondents rate satisfaction on a 7 point scale in response to: "We value your opinion. How was your experience with us?"

## DoIT OPERATIONS: USER SERVICES - HELP DESK OVERVIEW

**\*Help Desk Average First Contact Resolution**



**\*\*Help Desk Average Resolution Rate**



NOTES: \*First Contact Resolution for Help Desk User Services has been defined as a phone incident opened by the Help Desk and resolved by the Help Desk, within one hour of the incident being created.  
 \*\*Help Desk Average Resolution: defined as a phone incident opened anywhere and resolved by the Help Desk.

## HELP DESK RESOLUTION RATES FOR TOP SUPPORTED SERVICES IN JANUARY

	Incidents Created by HD	% of Total Incidents created	Resolved by HD	* HD % Resolution	**First Contact Resolution Rate
NetID Account Management	2,153	13.1%	1,797	★83.4%	89.1%
Multi-factor Authentication (MFA)	1,860	11.2%	1,752	94.0%	92.1%
Microsoft 365	827	5.8%	576	★68.3%	81.6%
Referrals	602	3.7%	507	★83.6%	92.5%
Help Desk Support, Computer Lending Program	454	2.7%	390	85.9%	75.0%
DoIT Departmental Support, Software	271	1.9%	219	★77.5%	88.9%
Canvas, Learn@UW - Canvas Madison	256	1.9%	169	★66.0%	88.2%
DoIT Departmental Support, General Computer	209	2.6%	155	★70.8%	85.7%
Help Desk Support, INFORMATION	175	1.1%	169	94.9%	100.0%
Course Search and Enrollment App, Course Search and Enroll App	167	1.0%	137	★80.2%	95.7%

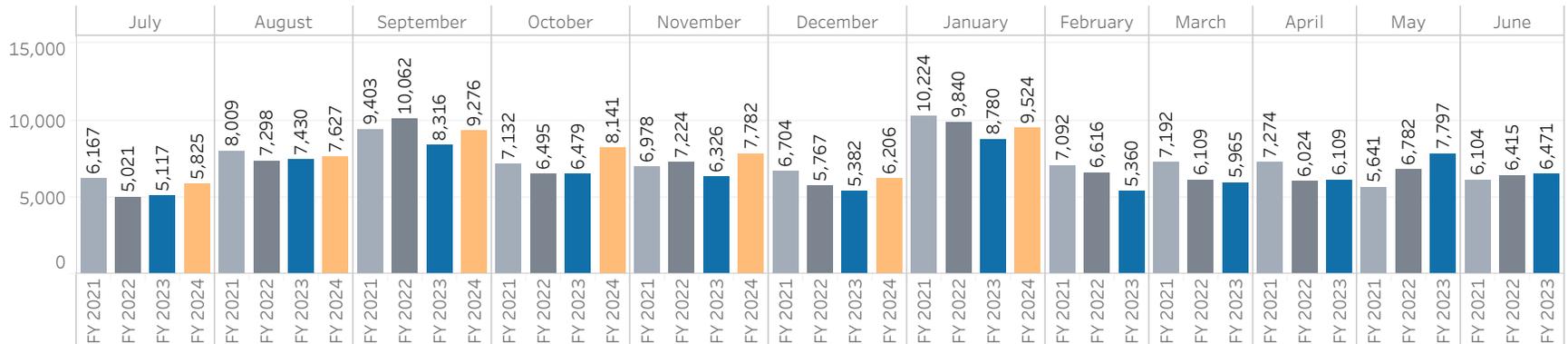
User Services Target: HD % Resolution

★ Below 85.0%    ■ At or above 85.0%

2024 Gartner Metrics: First Contact Resolution

■ At or above 70%

### Help Desk Annual Contacts



NOTES: \*HD % Resolution = incidents resolved by the Help Desk rather than being escalated to a specific service team

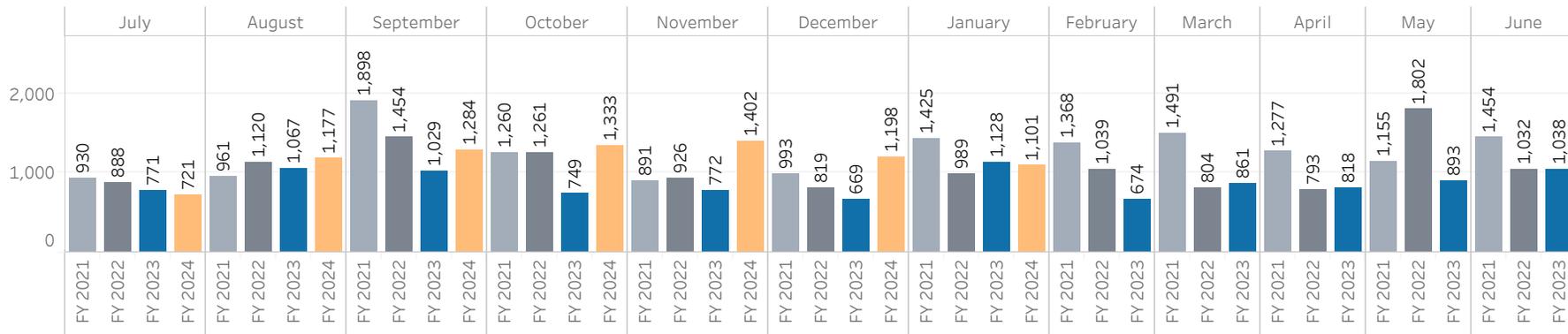
\*\* First Contact Resolution has been defined as a phone incident opened by the Help Desk and resolved by the Help Desk, within one hour of the incident being created. As only phone incidents are looked at, this metric may be blank if no phone incidents were reported for that service during the previous month.

# DoIT OPERATIONS: USER SERVICES - PRODUCTIVITY AND COLLABORATIVE SOLUTIONS SERVICES OVERVIEW

## Help Desk Resolution Rates for PCS Services During January

	All Incidents	% of Incidents	Incidents Created by HD	Resolved by HD	*HD % Resolution	** First Contact Resolution Rate	*** Customer Satisfaction	
Microsoft 365	963	70.7%	827	576	★68.3%	81.6%	93.4%	User Services Target: HD% Resolution ★ Below 85.0% ■ At or above 85.0%
UW-Madison Zoom	90	6.6%	81	59	★70.4%	92.9%	100.0%	
Box	112	8.2%	72	57	★77.8%	80.0%	90.5%	2023 Gartner Metrics: First Contact Resolution ★ Below 70% ■ At or above 70%
Google Workspace for Education	144	10.6%	103	53	★50.5%	★66.7%	100.0%	
Cloud Fax	2	0.1%	1	1	100.0%		100.0%	User Services Target: Customer Satisfaction ■ At or above 85.0%
Qualtrics	52	3.8%	17	11	★64.7%	100.0%		

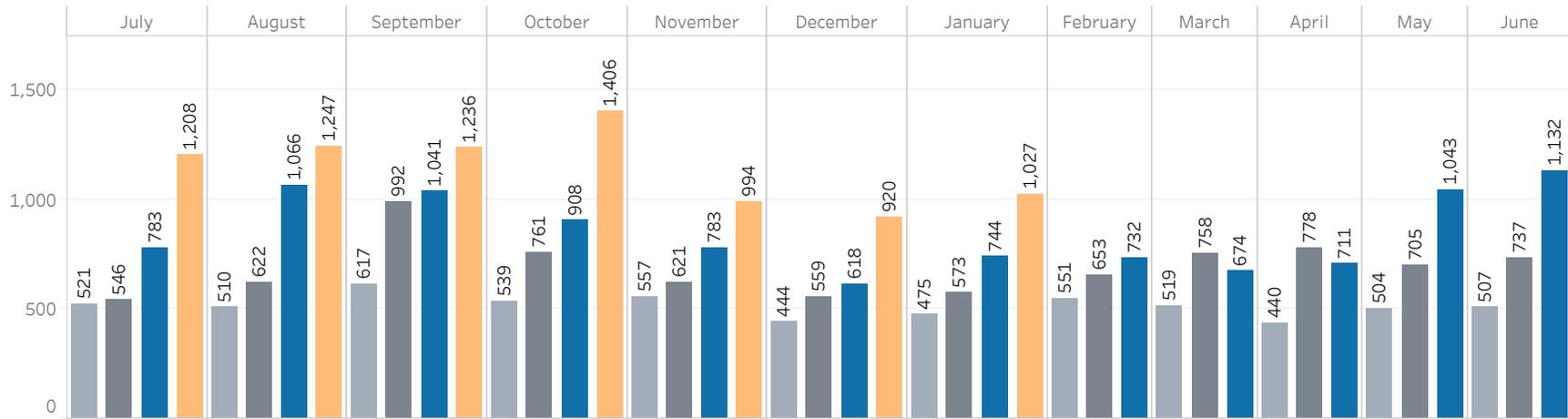
## PCS Services Annual Help Desk Contacts



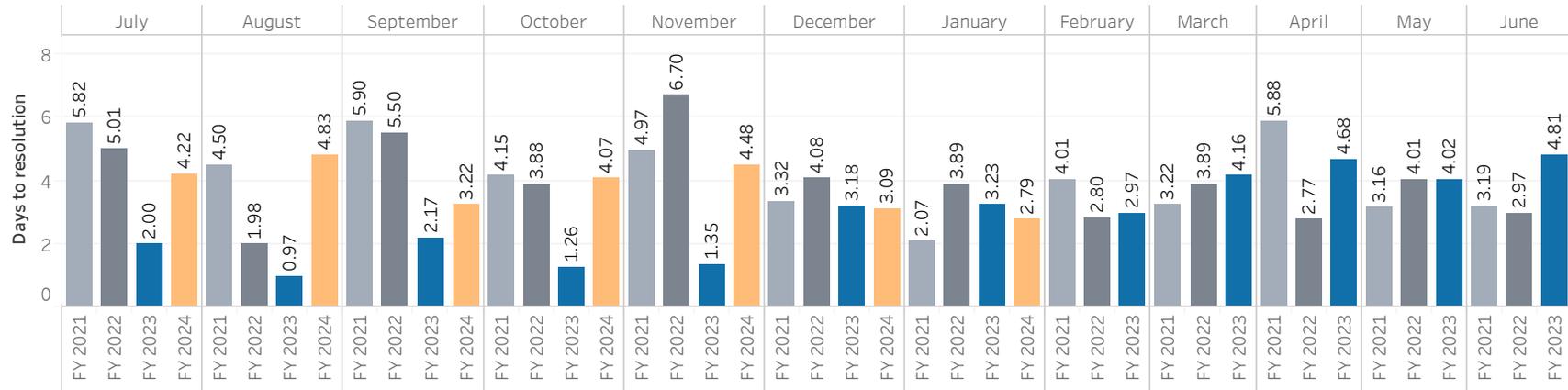
NOTES: \* HD % Resolution = incidents resolved by the Help Desk rather than being escalated to a specific service team  
 \*\* First Contact Resolution has been defined as a phone incident opened by the Help Desk and resolved by the Help Desk, within one hour of the incident being created. As only phone incidents are looked at this metric may be blank if no phone incidents were reported for that service during the previous month.  
 \*\*\* Survey respondents rate satisfaction on a 7 point scale in response to: 'We value your opinion. How was your experience with us?'

# DoIT OPERATIONS: USER SERVICES - DEPARTMENTAL SUPPORT OVERVIEW

## Departmental Support - Resolutions per Month



## Median Resolution Time (days)

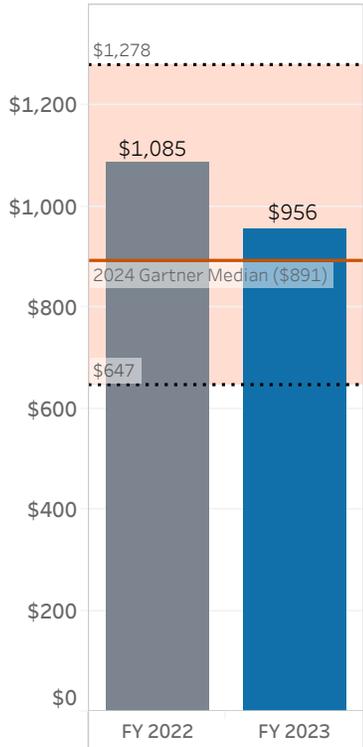


Notes: Departmental Support Resolutions per Month represent cases resolved by DS teams.

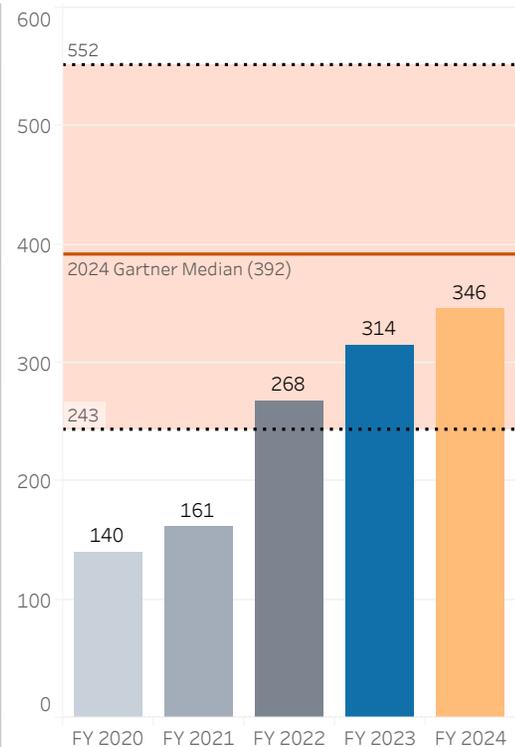
- FY 2021
- FY 2022
- FY 2023
- FY 2024

## DoIT OPERATIONS: USER SERVICES - DEPARTMENTAL SUPPORT METRICS

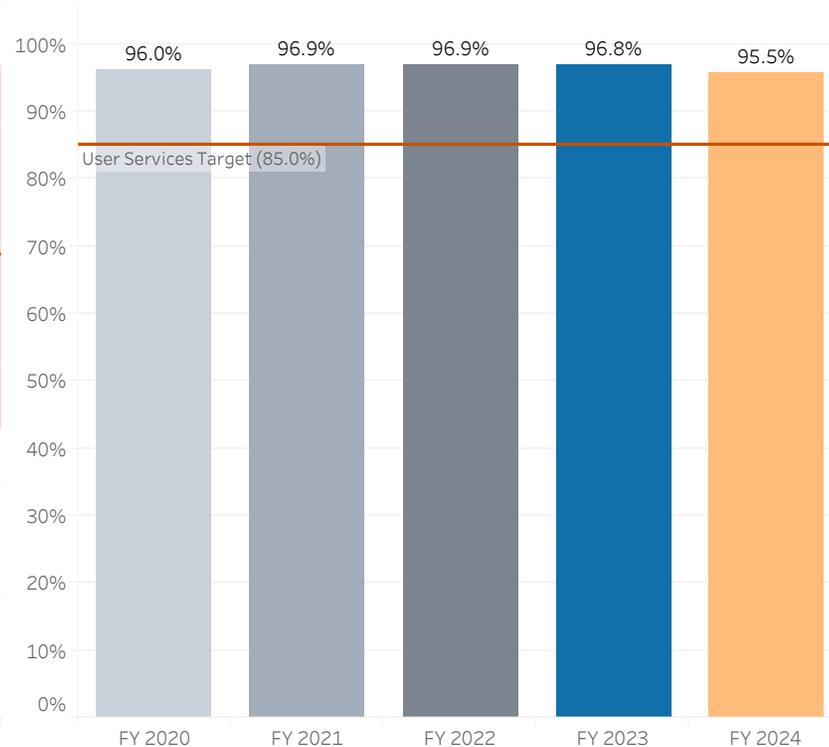
**\*Cost Per Endpoint**



**\*\*Endpoints Per Technician**



**\*\*\*Customer Satisfaction**



**i** Endpoints per technician calculation has been updated to more accurately reflect the diversity of work performed by DS technicians, particularly since the addition of AIMS staff and service support.



**NOTES:** \*Cost per endpoint methodology updated for December 2021 to eliminate "complexity" as a variable and expand sample size. Gartner includes the costs of voice, peripherals, software, and external services, which we have not, as there are alternative funding models for those items. Prior values are not directly comparable to the updated methodology, and will not be recalculated. Updates will be processed annually.  
 \*\*DS Endpoints per technician calculation updated for FY2023 to include AIMS endpoints and technicians, including mobile devices. Previous years values retained for historical reference and do not include mobile devices. Updated calculation redefines technician as a person rather than based on hours worked, and adds 56% of Infolab computers as managed endpoints. Calculation updated annually. Updated January 2024.  
 \*\*\*Survey respondents rate satisfaction on a 7 point scale in response to: 'We value your opinion. How was your experience with us?'

## DoIT OPERATIONS: ENTERPRISE BUSINESS SYSTEMS SERVICE AVAILABILITY

Last 12 months

Service	Target	Feb %	Mar %	Apr %	May %	Jun %	Jul %	Aug %	Sep %	Oct %	Nov %	Dec %	Jan %
HRS	99.000%	99.507	100.000	100.000	100.000	100.000	★ 98.562	99.798	★ 96.296	100.000	100.000	100.000	100.000
SFS	99.000%	100.000	100.000	100.000	100.000	100.000	100.000	99.861	100.000	100.000	100.000	100.000	100.000
SIS	99.000%	100.000	99.946	100.000	99.877	100.000	★ 87.446	100.000	100.000	100.000	100.000	100.000	★ 97.460
UWBI	98.000%	100.000	100.000	100.000	100.000	100.000	100.000	100.000	98.970	100.000	100.000	100.000	100.000

Target Colors  
■ ★ Below Target    ■ Above Target



## DoIT OPERATIONS: NETWORK SERVICES - WAN SERVICE AVAILABILITY

Service	Target	Nov %	Dec %	Jan %	Service	Target	Nov %	Dec %	Jan %	Service	Target	Nov %	Dec %	Jan %
UW Colleges Extension	99.900%	100.000	100.000	100.000	UW Platteville	99.900%	100.000	100.000	100.000	UWC Waukesha	99.900%	100.000	100.000	100.000
UW Eau Claire	99.900%	100.000	100.000	100.000	UW River Falls	99.900%	100.000	100.000	100.000	UWC Washington Co.	99.900%	100.000	100.000	100.000
UW Green Bay	99.900%	100.000	100.000	100.000	UW Stevens Point	99.900%	100.000	100.000	100.000	UWC Sheboygan	99.900%	100.000	100.000	99.988
UW Health	99.900%	100.000	100.000	100.000	UW Stout	99.900%	100.000	100.000	100.000	UWC Rock Co.	99.900%	100.000	100.000	100.000
UW La Crosse	99.900%	100.000	100.000	100.000	UW Superior	99.900%	100.000	100.000	100.000	UWC Richland	99.900%	100.000	99.927	99.975
UW Madison	99.900%	100.000	100.000	100.000	UW Whitewater	99.900%	100.000	100.000	100.000	UWC Marshfield Wood Co.	99.900%	100.000	100.000	100.000
UW Milwaukee	99.900%	100.000	100.000	100.000	UWC Baraboo Sauk Co.	99.900%	100.000	100.000	100.000	UWC Marinette	99.900%	100.000	100.000	99.990
UW Oshkosh	99.900%	100.000	100.000	100.000	UWC Barron Co.	99.900%	100.000	100.000	99.978	UWC Marathon Co.	99.900%	100.000	100.000	100.000
UW Parkside	99.900%	100.000	100.000	100.000	UWC Fond du Lac	99.900%	100.000	★ 99.863	★ 99.115	UWC Manitowoc	99.900%	100.000	100.000	99.988
					UWC Fox Valley	99.900%	100.000	100.000	100.000					

### Target Colors

★ Below Target

■ Above Target

 UWC Richland lost BGP Peering; UWGB firewall upgrade caused issues at Sheboygan, Manitowoc and Marinette. A power outage caused an additional issue at UWC Sheboygan. UWC Barron Co lost communication w/ local UW networking gear, and UWC-FDL had an mx104 fail.

 -Availability is for wired (not wi-fi) connectivity at each institution. Availability calculated as total uptime / total time per month. Wide Area Network is considered down when completely disconnected from the system (i.e. both routers down at 4-year schools, the single router down at 2-year schools). Any planned outages are included in the calculations, sometimes making availability appear below commercial standards of 99.9% or 99.99% uptime.  
 -The 99.9% SLA rate with UW System is for unplanned outages; the figures in this table include all outages – planned or unplanned. SLA faults here (highlighted in RED) may not actually be an SLA agreement fault.

## DoIT OPERATIONS: WAN SPEEDS - NETWORK SERVICES

		<b>IN</b>					<b>OUT</b>		
		Nov-23	Dec-23	Jan-24			Nov-23	Dec-23	Jan-24
<b>UW-Madison campus</b>	Avg (Gb/sec)	16.20	14.10	12.10	<b>UW-Madison campus</b>	Avg (Gb/sec)	7.20	5.40	6.00
	Max (Gb/sec)	42.40	43.90	40.80		Max (Gb/sec)	53.20	21.30	22.40
	Min (Gb/sec)	2.90	2.50	3.10		Min (Gb/sec)	2.80	2.00	2.10
	95th percentile of usage	30.40	30.40	29.90		95th percentile of usage	13.90	10.20	10.60
	% of full capacity (200Gbps)	8.10	7.05	6.05		% of full capacity (200Gbps)	3.60	2.70	3.00
<b>UW-Madison research</b>	Avg (Gb/sec)	34.70	27.40	28.50	<b>UW-Madison research</b>	Avg (Gb/sec)	21.80	20.90	18.00
	Max (Gb/sec)	125.70	110.60	152.80		Max (Gb/sec)	110.70	131.20	89.10
	Min (Gb/sec)	14.10	7.50	7.00		Min (Gb/sec)	7.10	6.50	5.00
	95th percentile of usage	65.80	54.40	80.40		95th percentile of usage	47.90	45.90	0.70
	% of full capacity (200Gbps)	17.35	13.70	14.25		% of full capacity (200Gbps)	10.90	10.45	9.00
<b>Internet Exchange (MadIX)</b>	Avg (Gb/sec)	0.47	0.39	0.36	<b>Internet Exchange (MadIX)</b>	Avg (Gb/sec)	1.10	1.20	1.20
	Max (Gb/sec)	3.60	3.10	1.40		Max (Gb/sec)	4.20	5.60	3.30
	Min (Gb/sec)	0.05	0.03	0.04		Min (Gb/sec)	0.24	0.18	0.20
	95th percentile of usage	1.30	0.84	0.76		95th percentile of usage	2.10	2.90	2.30
	% of full capacity (20Gbps)	2.37	1.96	1.79		% of full capacity (20Gbps)	5.50	6.00	6.00



NOTES: Average (mean) network usage includes night and weekend readings of typically much lower traffic. Averages for UW-Madison Campus Internet Access and UW-Madison internet Exchange will likely be lower in summer months than they are during the academic year.

95th percentile usage is a more common industry standard than avg/max/min for measuring utilization; Network Services is working on providing that measure as well in future reports.

A peering exchange, such as the Madison Internet Exchange, enables networks to interconnect directly to each other and exchange IP (Internet) traffic. Peering is the exchange between two independent networks for the benefit of both networks.

The target for WAN speeds is a capacity threshold instead of a specified speed to maintain. When 95th percentile speeds reach about 45-55% of capacity, there is an engineering exploration to determine the cause of increased usage and whether increased capacity is warranted.

## DoIT OPERATIONS: SYSTEMS ENGINEERING AND OPERATIONS SERVICE AVAILABILITY

Last 12 months

Service	Target	Feb %	Mar %	Apr %	May %	Jun %	Jul %	Aug %	Sep %	Oct %	Nov %	Dec %	Jan %
Bucky Backup	99.000%	100.000	100.000	99.608	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000
Campus Card Access	99.500%	100.000	99.948	100.000	100.000	100.000	100.000	100.000	100.000	100.000	99.861	100.000	100.000
Campus Computing Infrastructure	99.500%	★ 99.021	100.000	100.000	100.000	100.000	100.000	★ 99.337	100.000	100.000	100.000	100.000	99.978
Life Safety, Environmental Control, Fire Alarm Monitoring	99.900%	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000
MS SQL Shared Hosting	99.000%	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000
PCI	99.500%	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000
Report Distribution	98.000%	99.220	100.000	99.848	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000
Select Agent	99.900%	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000
Storage	99.900%	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000
Video Monitoring System	99.900%	100.000	100.000	★ 72.472	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000
WiscIT (Cherwell)	99.500%	99.803	★ 97.219	★ 97.219	100.000	100.000	100.000	100.000	★ 99.447	★ 88.833	99.563	★ 80.560	100.000

**Target Colors**

★ Below Target    Above Target



# DoIT OPERATIONS: SOLUTIONS ENGINEERING SYSTEMS MANAGEMENT SUMMARY

For January, FY 2024

	SLA Availability % Target	Availability % of Total Time	Number of Servers Managed	Service Requests	Servers per FTE	2024 Gartner Median [Interquartile range]
Windows	100	100	334	36	121.5	265 [140-443]
Linux	100	100	540	108	180.0	265 [151-401]

■ At or Above Availability Target

## Top Consumers By Percentage of Labor Hours

SQL DB Hosting	14.96%
SE DoIT Server Labor	12.55%
ATP Server Labor	1.53%
US-DS-GDS Cytology (T&M)	0.98%
Union PCI	0.95%
4370-09-GRAD SCHOOL	0.48%
InfoAccess DW Support	0.36%
4610 DEM (replaces 4816)	0.27%
WHS CounterPoint	0.19%
SULFUR Server Labor	0.18%

## Top Consumers By Server Count

PSaaS (PeopleSoft as a Service)	85
Cybersecurity	53
SFS.HRS	40
Web Platform Services	37
SIS	37
WHS	30
VCRGE	28
Identity and Access Management	27
SysNet	23
Imaging	21



# DoIT OPERATIONS: SOLUTIONS ENGINEERING VULNERABILITIES SUMMARY

## Four Months Vulnerability Summary

Type	Severity	October	November	December	January
Confirmed Vulnerability	1	3	1	2	
	2	2	326	39	32
	3	628	2,618	1,008	774
	4	3,058	2,553	1,133	2,307
	5	330	649	501	422
Needs investigation	3		5		
	4	19	12	1	18
	5	64	4	2	58
Potential Vulnerability	2	2	2		1
	3	3	4	3	18
	4	2	3		
<b>Grand Total</b>		<b>4,111</b>	<b>6,177</b>	<b>2,689</b>	<b>3,630</b>

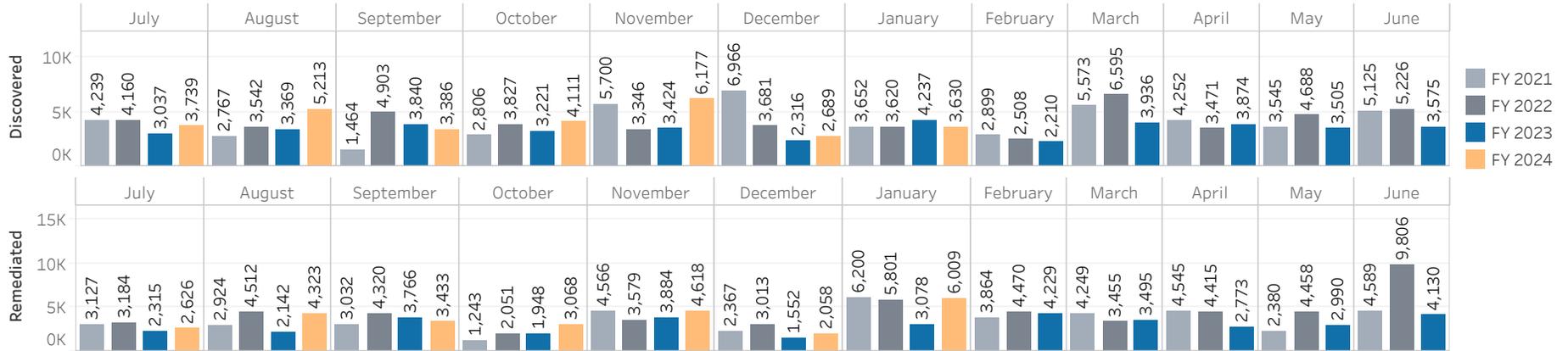
\*Active & Urgent Vulnerabilities

251

Remaining From January

27

## SEO Vulnerabilities Summary



NOTES: Data in this visualization is pulled directly from Cherwell  
 \* Refers to the number of active vulnerabilities with a severity of 4 or 5.

## DoIT OPERATIONS: OPERATIONS ENGINEERING INCIDENT & PROBLEM SUMMARY

### Incidents & Problems Last Four Months

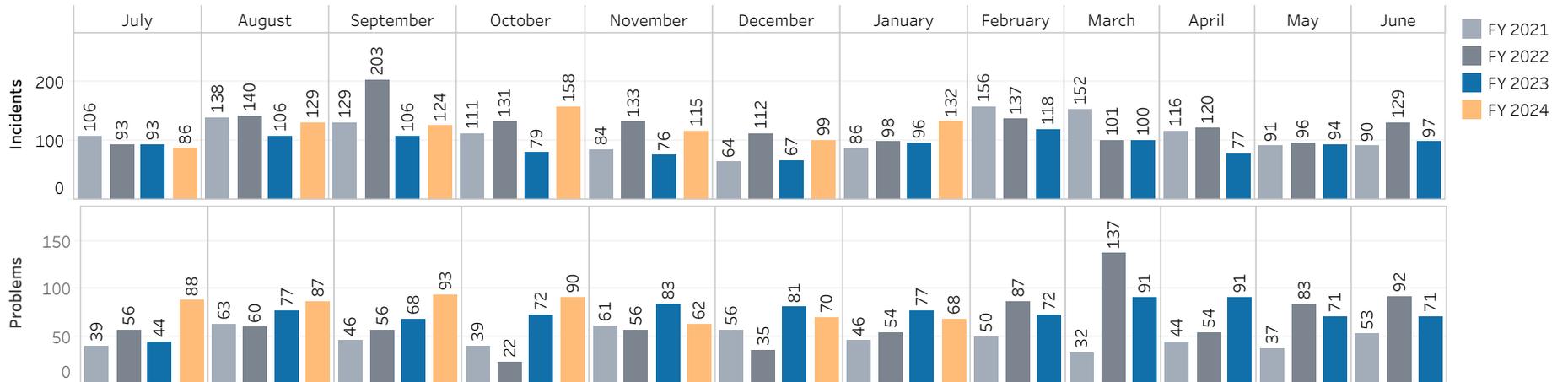
#### Incidents

	October	November	December	January
Network Access	127	98	91	119
Wireless	5	1	3	1
Other	26	16	5	12
<b>Grand Total</b>	<b>158</b>	<b>115</b>	<b>99</b>	<b>132</b>

#### Problems

	October	November	December	January
Network Access	62	47	53	50
Server Certificates	2		1	3
Wireless	19	10	13	13
Other	7	5	3	2
<b>Grand Total</b>	<b>90</b>	<b>62</b>	<b>70</b>	<b>68</b>

### Incident & Problem Summary



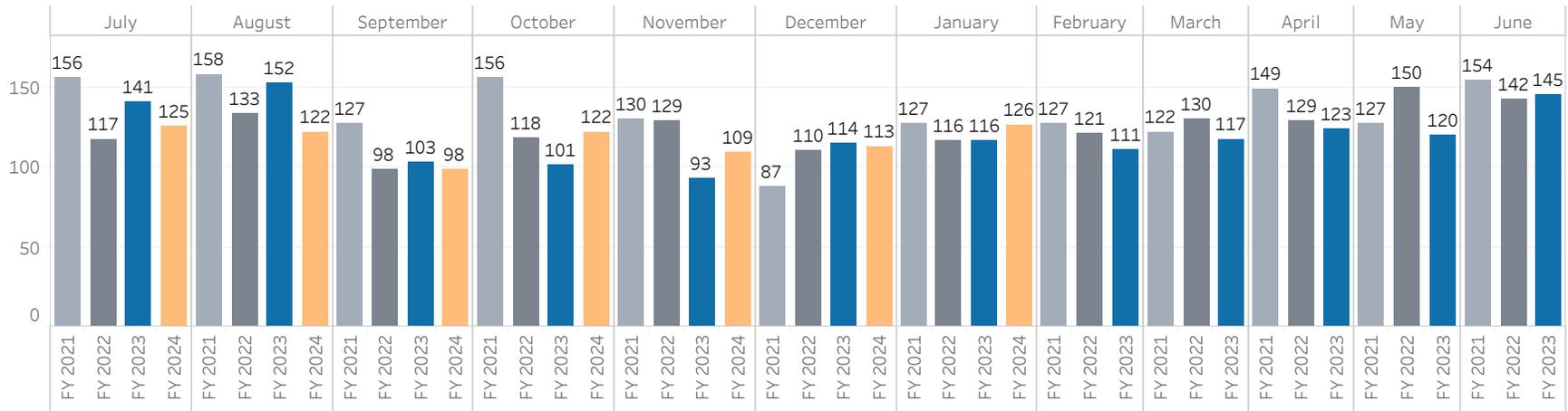
NOTES: Incident counts are pulled directly from WiscIT (Powered by Cherwell) as incidents touched by the OpEng Team. Rows titled "Wireless" contain data for both UWNnet and eduroam networks.

## DoIT OPERATIONS: SYSTEMS & NETWORK CONTROL CENTER

### \*Four Month SNCC Problems Worked Summary

	October	November	December	January
<b>Boreas</b>	3	4	3	3
<b>Campus Network</b>	104	98	72	104
<b>MUFN</b>		5	2	1
<b>Northern Tier</b>	4	2	2	2
<b>UW SysNET</b>	13	11	10	15
<b>Other DoIT Technical Services</b>	37	34	28	28
<b>Grand Total</b>	<b>161</b>	<b>154</b>	<b>117</b>	<b>153</b>

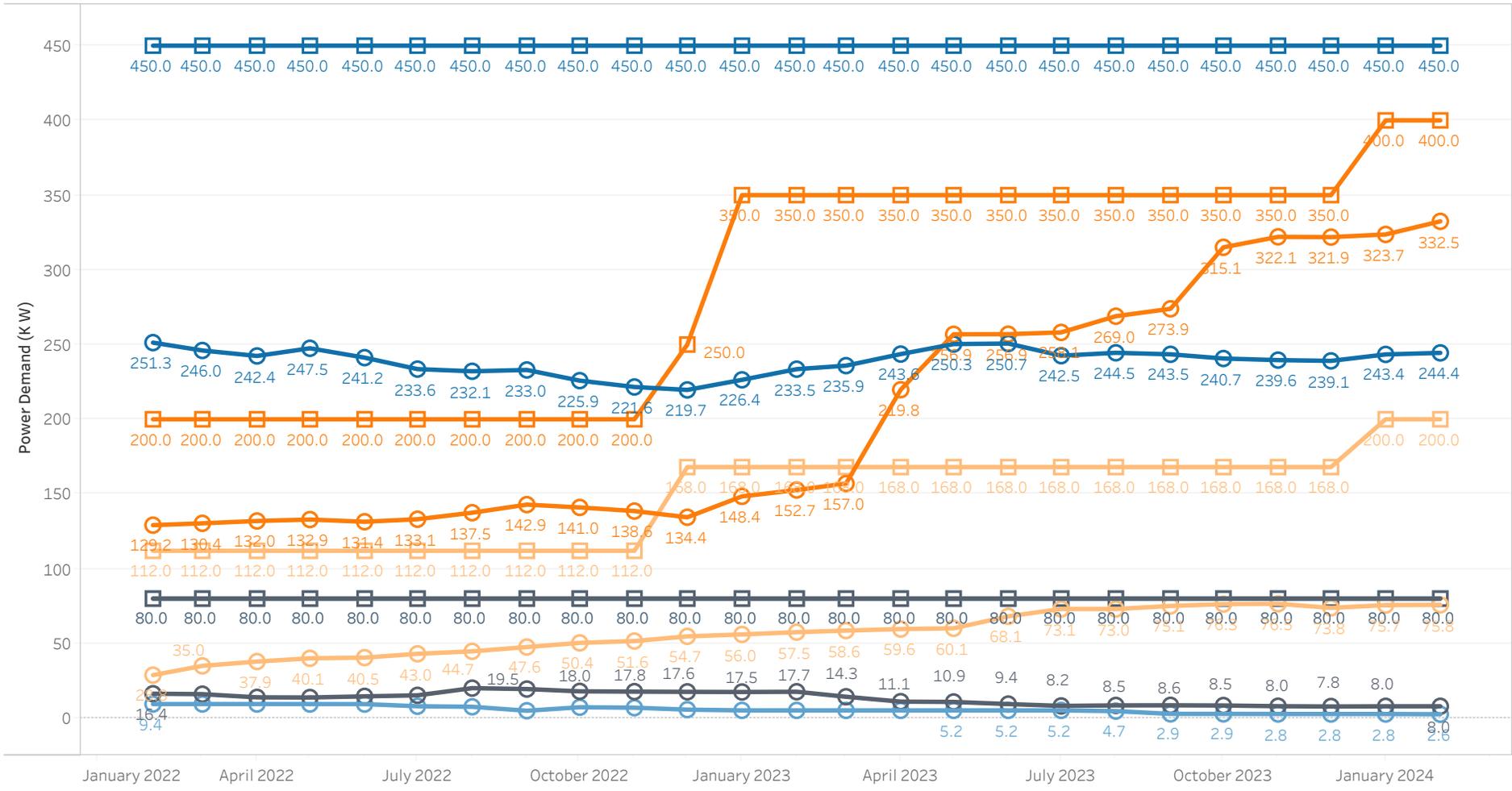
### SEO Outage Summary



\*If blank, zero problems required SNCC management.

Reporting methodology updated for April FY21 report to count distinct problems that required SNCC interaction (via Journals attached to problems) in a month, rather than the number of new problems created.

## DOIT OPERATIONS: DATA CENTER POWER USAGE FORECAST



○ Actual

□ Limit

■ Dayton

■ OneNeck

■ Femrite

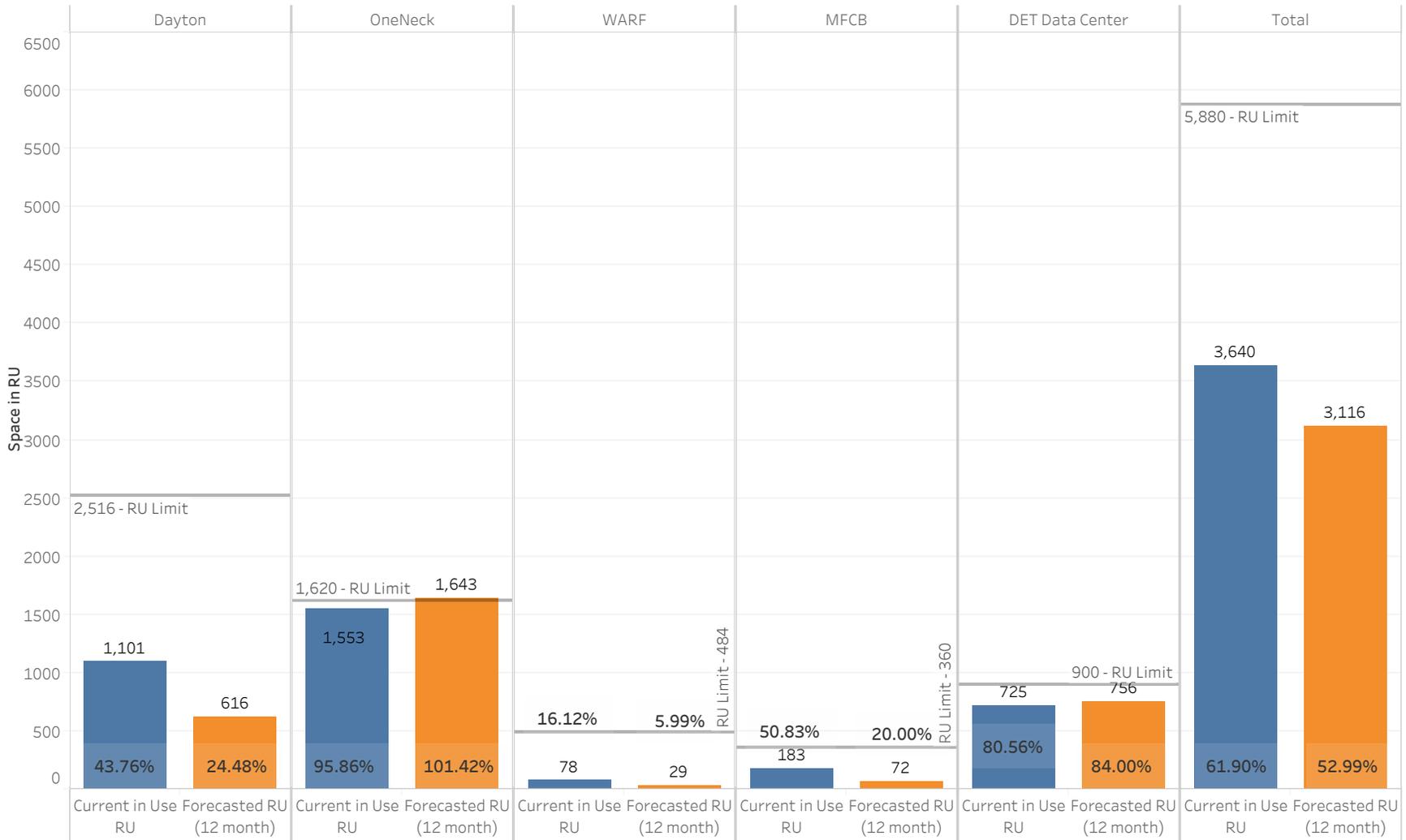
■ MFCB

■ WARF



-MFCB and WARF both have 80 KW limits on available power.

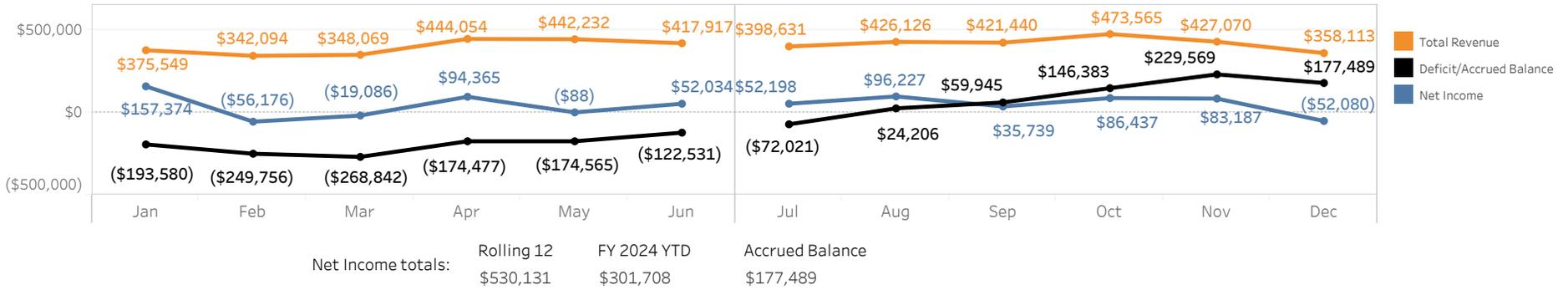
## DOIT OPERATIONS: DATA CENTER SPACE USAGE FORECAST



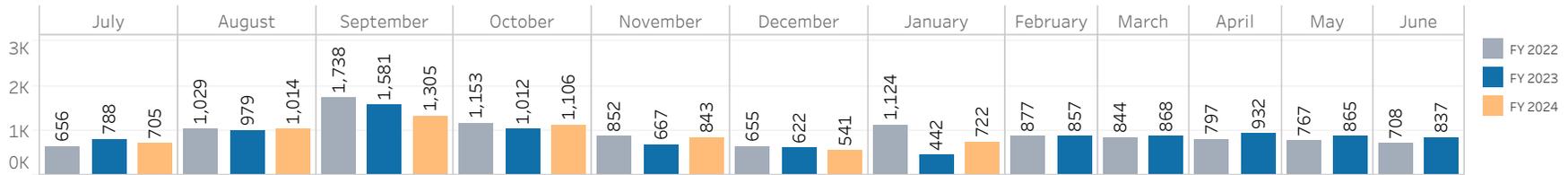
RU = Rack Units  
 Usage and one year forecast at the conclusion of January, FY 2024.  
 RU Limits are current values.

## DOIT OPERATIONS: DIGITAL PUBLISHING & PRINTING SERVICES

### \*Revenue, Net Income, and Deficit/Accrual Last 12 Months



### Annual - Total Jobs



### Average On-Time Percentage by Stream ■ At or Above 99.90%

	November	December	January
B - WSB DPC	100.00%	100.00%	100.00%
E - Extension DPC	100.00%	100.00%	100.00%
F - Offset Print	100.00%	100.00%	100.00%
J - Digital Color	100.00%	100.00%	100.00%
K - Contract	100.00%	100.00%	100.00%
M - School of Human Ecology DPC	100.00%	100.00%	100.00%
S - Large Format	100.00%	100.00%	100.00%
X - Digital Black	100.00%	100.00%	100.00%

### Rework Information

	Total Job Reruns	Total Cost Reruns	Avg. Real Rework
November	0	0	0
December	1	346	0
January	0	0	0



\*Values are displayed as of the beginning of January, FY 2024 due to a lag in obtaining Net Income and Deficit/Accrued Balance data.

# DoIT OPERATIONS: ACADEMIC TECHNOLOGY SERVICES OVERVIEW

## Help Desk Resolution Rates for AT Learn@UW Services During January

	All Incidents	% of Incidents	Incidents Created by HD	Resolved by HD	* HD % Resolution	** First Contact Resolution Rate	*** Customer Satisfaction
Heliocampus AC	64	13.2%	13	10	76.9%	100.0%	100.0%
Canvas	309	63.7%	256	169	★66.0%	88.2%	97.6%
Kaltura	24	4.9%	9	3	★33.3%	100.0%	100.0%
Other Learn@UW Services	88	18.1%	52	28	★53.8%	100.0%	★71.4%
<b>Total Learn@UW Services</b>	<b>485</b>	<b>100.0%</b>	<b>330</b>	<b>210</b>	<b>★63.1%</b>	<b>89.4%</b>	<b>95.7%</b>

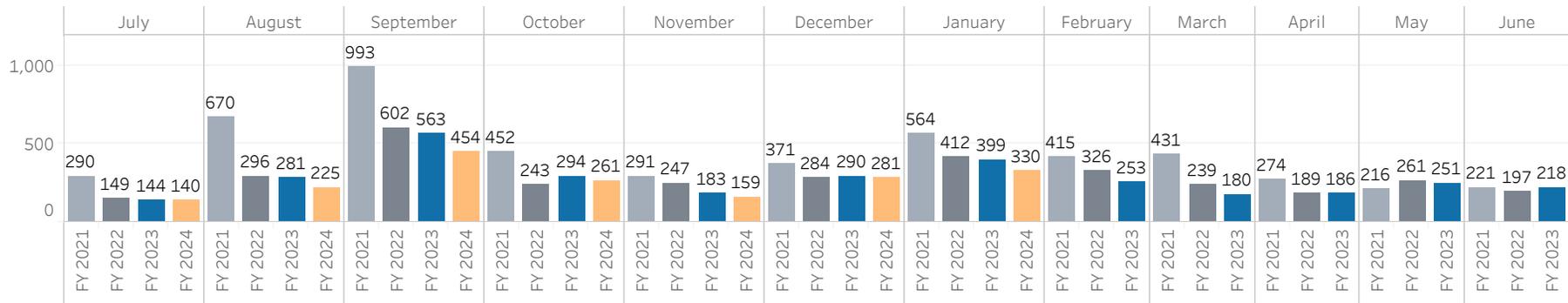
AT Targets:  
HD % Resolution by Service

Heliocampus AC - 70%  
Canvas - 85%  
Kaltura - 85%  
Other Learn@UW Services - 75%  
Total Learn@UW Services - 85%

2023 Gartner Metrics:  
First Contact Resolution  
■ At or above 70%

User Services Target:  
Customer Satisfaction  
★ Below 85.0%  
■ At or above 85.0%

## AT Learn@UW Services Annual Help Desk Contacts



NOTES: \* HD % Resolution = incidents resolved by the Help Desk rather than being escalated to a specific service team . The HD % Resolution targets for AT Services were derived by taking the average HD % Resolutions from the past two years for AT Learn@UW Services.

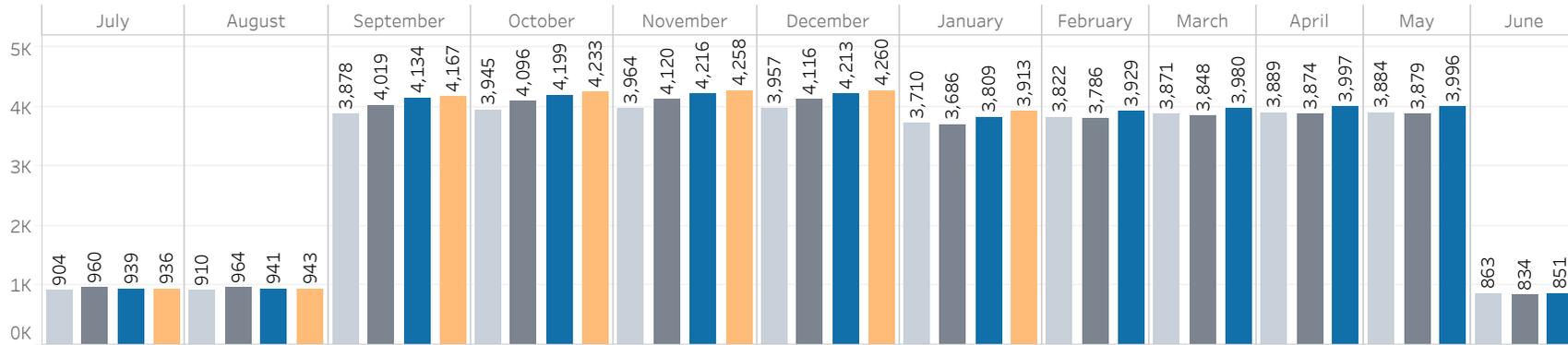
\*\* First Contact Resolution has been defined as a phone incident opened by the Help Desk and resolved by the Help Desk, within one hour of the incident being created. As only phone incidents are looked at this metric may be blank if no phone incidents were reported for that service during the previous month.

\*\*\* Survey respondents rate satisfaction on a 7 point scale in response to: 'We value your opinion. How was your experience with us?'

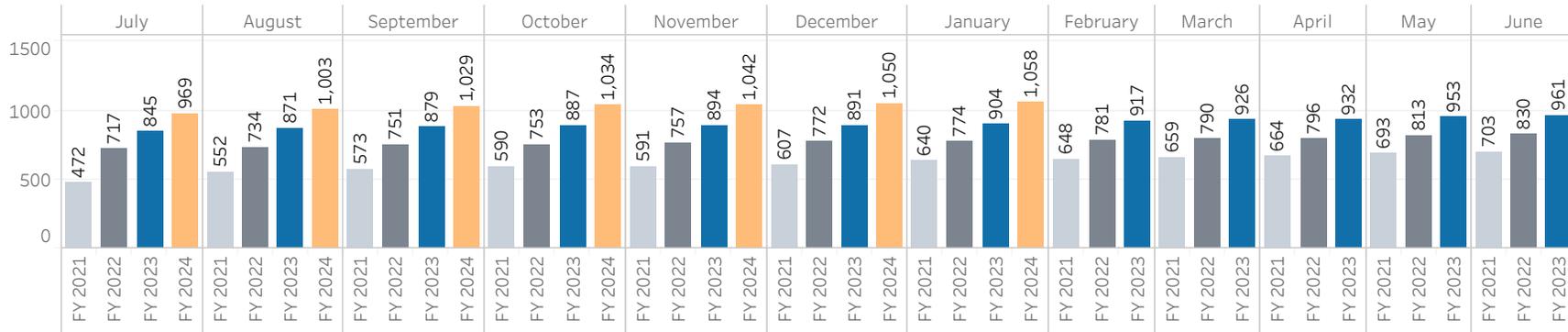
Other Learn@UW Services include Atomic Assessments, Atomic Assessments Quizzing Tool, Engage, Honorlock, Piazza, ACAR (Pressbooks, Storyline, Learning Locker, Grassblade, General Content Authoring), Top Hat, Turnitin, UDOIT

## DoIT OPERATIONS: ACADEMIC TECHNOLOGY - CANVAS METRICS

### Active for-credit Canvas Courses



### Active Canvas Compliance or Institutional Training Courses

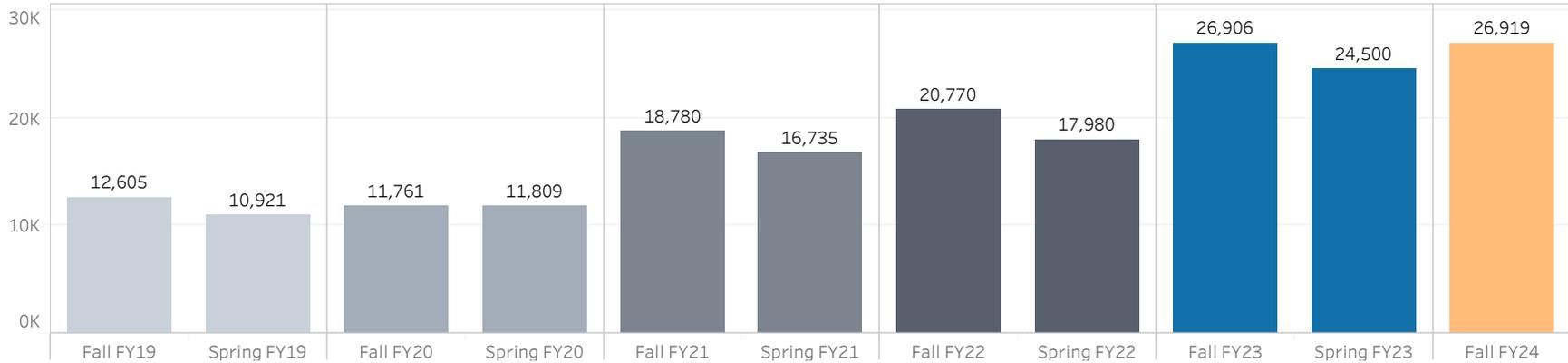


Each academic term a Canvas course shell is created for every for-credit course offered at UW-Madison. "Active" Canvas courses are those manually activated by an instructor.

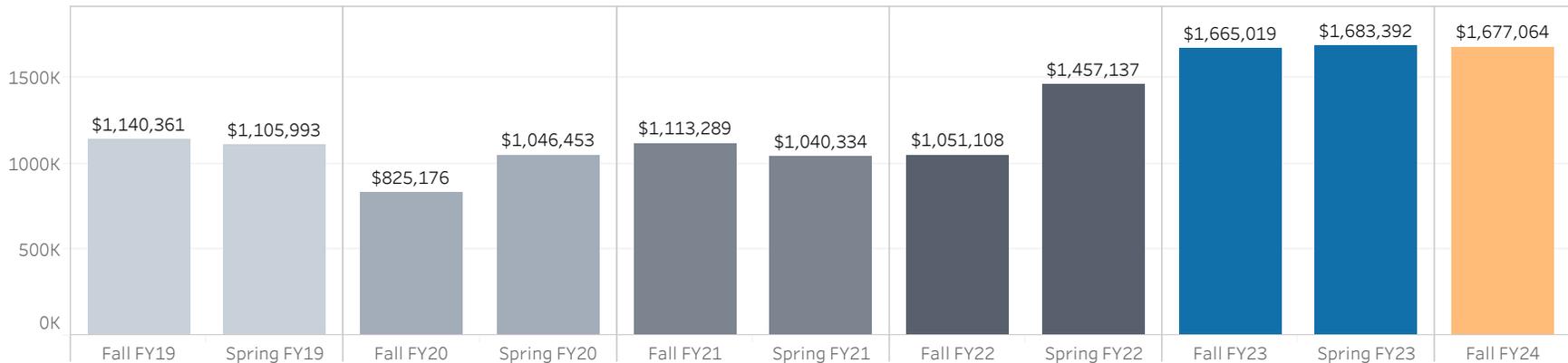
- FY 2021
- FY 2022
- FY 2023
- FY 2024

# DoIT OPERATIONS: ACADEMIC TECHNOLOGY -ENGAGE E-TEXTS AND DIGITAL LEARNING TOOLS METRICS

## Students Enrolled in Courses Using e-Texts



## Engage e-Texts and Digital Learning Tools Savings over List Price for Print Textbooks



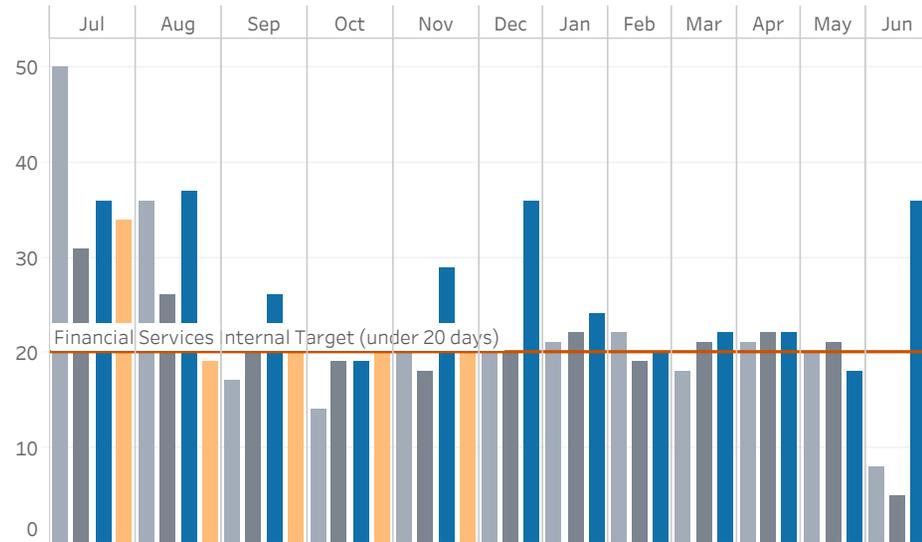
Since spring 2018, less than 1% of students have opted out of using neither an eText nor a publisher bundled digital learning tool when given the option.

Enrollment counts are not unique. A student in 3 courses using Engage eTexts is represented as 3 student enrollments.

Cost savings are based on the difference between publishers' retail prices for print textbooks and the price of digital materials made available through Unizin.

## DoIT OPERATIONS: FINANCIAL SERVICES

**\*Days from SFS Close to CBS Close**



**\*Days from CBS Close to Management Report Completion**

	FY 2021	FY 2022	FY 2023	FY 2024
July	5	4	12	2
August	3	2	1	3
September	3	1	1	1
October	0	1	1	0
November	0	0	1	
December	2	1	0	
January	1		0	
February	0	1	1	
March	3	1	1	
April	1	1	1	
May	5	3	3	
June	34	48	4	

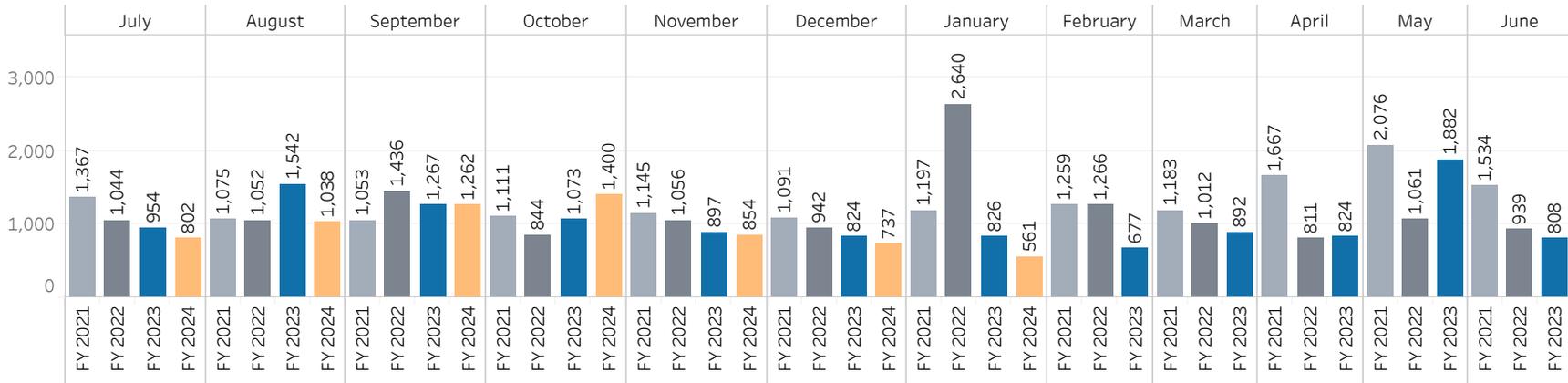
**Average Number of Days to Pay: e-Reimbursement**



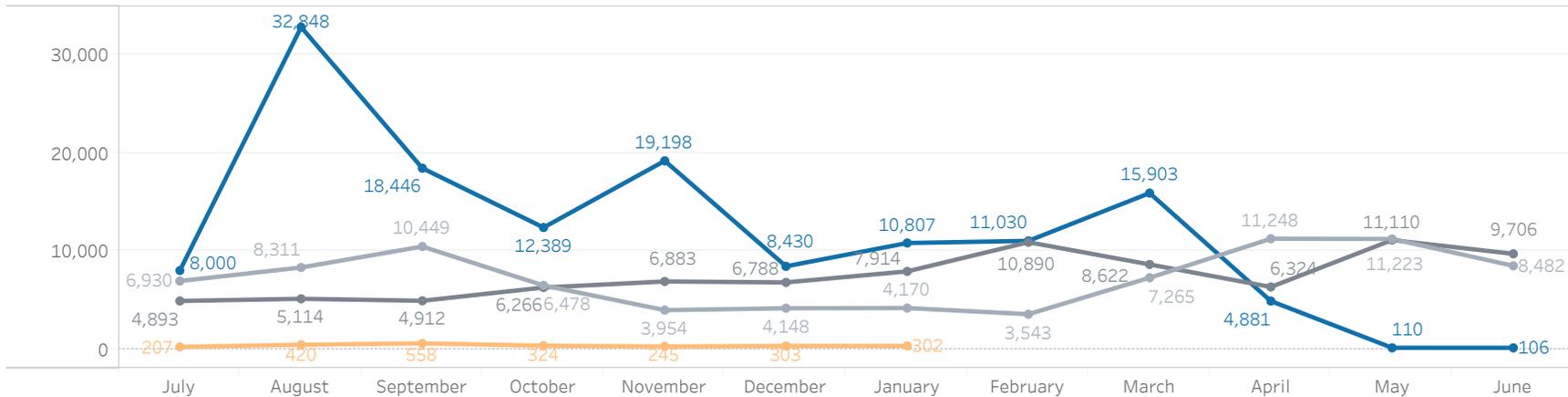
\*If blank, data is currently unavailable.

## DoIT OPERATIONS: CYBERSECURITY - CYBERSECURITY OPERATIONS CENTER

### Incidents Resolved by CyberSecurity Operations Center (Phishing excluded)



### Phishing Incidents Resolved by CyberSecurity Operations Center



Incidents noted are from all sources. Phishing cases include spam, and are autogenerated via user reporting to [abuse@wisc.edu](mailto:abuse@wisc.edu). The previous methodology for reported phishing emails has been temporarily stopped due to new email security tools being implemented on campus, beginning April FY23. The new tools have altered the way phishing emails are reported.

## DoIT PROJECT MANAGEMENT OFFICE PORTFOLIO METRICS

	Intake Stages			Active		Sum of Median Days in Each Stage
	Opportunity Development & Project Proposal Stage 0 & 1	Project Prioritization Stage 2	Project Scheduling Stage 3	Execution & Go Live Stage 4	Project Close Stage 5	
Median Days in each Stage	2	1	10	385	106	504
	Queued		On Hold	Execution & Go Live Stage 4	Project Close Stage 5	Total Projects on PPL
Projects on Primary Projects List	0	8		37	1	63
				Active (Non-Major)		
				Active (Major)		
				17	0	
	*Completed Projects					
	156					



Metrics are from the start of the DoIT Portfolio Process launch in July 2020 and only include projects that started with stage 1. This data does not include departmental fast track projects.

\*Projects completed since January 2021

Values as of the conclusion of January FY 2024.

<https://go.wisc.edu/doit-project-portfolio>

# DoIT OPERATIONS: HIGH RISK DATA BACKUP AND RESTORE TESTING

NOTE: Data updated through 2/12/2024

Service Name	Dept.	FY 2023		FY 2024	
		Q4	Q1	Q2	Q3
AANTS	NS	P	P		
Campus Active Directory	AIS	P	P		
Canvas	AT	P	P		
CBS	EBS	P	P	P	
CCAS - Campus Card Access System	SEO	P	P	P	P
Cisco Contact Center	NS	P	P	P	
Cisco Voice Mail	NS	P	P	P	
Critical Infrastructure Active Directory	AIS	P	P		
Cybersecurity Log Management Service	CS	P	P	P	
DNS	NS	P	P	P	
ECRT (Effort Reporting)	AIS	P	P	P	
Electronic Report Distribution and Printing (Cypress)	SEO	P	P	P	
Employee Compensation Compliance (ECC)**	AIS				
Enterprise Content Management Service (ECMS)	AIS	P	P	P	
FASTAR - MILER	EBS	P	P	P	
Gitlab Repository Services	AIS	P	P	P	
HelioCampus AC**	AT				
Housing Administration Applications	EBS	P	P	P	
HRS - Human Resource System	EBS	P	P	P	
IAM Reverse Proxy	AIS	P	P		
Life-Safety Bldg. Env. Ctrl. & Fire Alarm Monitoring	SEO	P	P	P	P
Madison Reverse Proxy	AIS	P	P		
Manifest	AIS	P	P		
NetID Account Management	AIS	P	P		
NetID IdP	AIS	P	P		

Service Name	Dept.	FY 2023		FY 2024	
		Q4	Q1	Q2	Q3
NetID Multi-Factor Authentication (MFA)	AIS	P	P		
NetID Radius	AIS	P	P		
OneBadger	EBS	P	P	P	
PCI-Infrastructure	SEO	P	P	P	P
PeopleSoft as a Service (PSaaS)	EBS	P	P	P	
PRISM	EBS	P	P	P	
SA-Infrastructure	SEO	P	P	P	P
SFS - Shared Financial System	EBS	P	P	P	
Shared Drive - File Storage	SEO	P	P	P	
ShopUW+**	EBS				
SIS - Student Information System	EBS	P	P	P	
SOAR Reservation System	AIS	P	P		
SOLAR	EBS	P	P	P	
System Active Directory	AIS	P	P		
UDS LDAP	AIS	P	P		
UW System Proxy IdP	AIS	P	P		
UWBI (Business Intelligence)	EBS	P	P	P	
UWP1 Service	EBS	P	P	P	
UWPDR Service	AIS	P	P		
Video Management Service	SEO	P	P	P	P
Web Hosting	AIS	P	P	P	
WiscIT	US	P	P		
Wisconsin Federation (WAYF)	AIS	P	P		
WiSH - Wisconsin Scholarship Hub**	EBS				
Youth Activity Registration System (YARS)**	AIS				

Overall Pass Fail

■ Pass (P)

***Completion rate	FY 2023		FY 2024	
	Q4	Q1	Q2	Q3
***Completion rate	100%	100%	62%	11%



NOTES: \* Indicates services in the End of Service Life (EoS) state that are not yet fully decommissioned.  
 \*\* Service has a High Risk Data flag set to "Yes-Vendor" - this service contains high-risk data, but is outside of UW control due to being vendor-managed and not included in completion rate  
 \*\*\* Completion rate represents the percent of services operated by DoIT that contain high risk data and have audit records attached per quarter.  
 Q1 = July 1 - Sept 30, Q2 = Oct 1 - Dec 31, Q3 = Jan 1 - Mar 31, Q4 = Apr 1 - June 30  
 Contents reflect DoIT operated Technical Services in the CMDB marked as High Risk at the end of January FY 2024. Deactivated/decommissioned services are not included. Blanks indicate an audit record has not been completed for the service.  
**Pass (P)** - Backups are occurring at least every 28 days, and a test restore can be demonstrated every 90 days.  
**Fail (F)** - Backups are NOT confirmed to be occurring at least every 28 days, and/or a test restore CANNOT be demonstrated to have been done every 90 days.

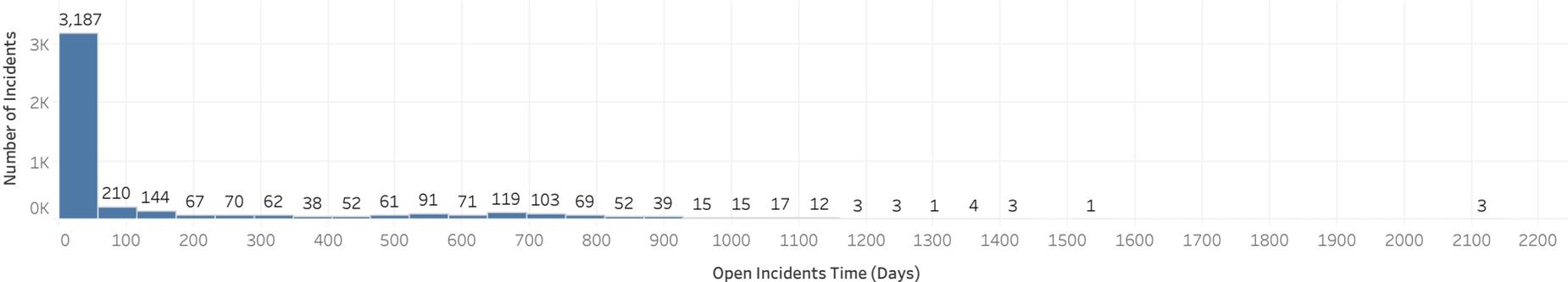
# DoIT OPERATIONS: INCIDENT AGING REPORT

NOTE: Open incidents analyzed through 02/02/2024

## Age of Open Incidents by Department

	Less Than 2 Days	Between 2 Days and 2 Weeks	Between 2 Weeks and 1 Month	Between 1 Month and 1 Year	Greater than 1 Year
AIS	30	136	29	64	38
AT	12	22	5	21	11
CTO					
Cybersecurity	190	396	40	23	6
DoIT Communications		1			
DoIT HR		3	6	87	221
EBS		1			15
FS					5
Non-DoIT teams	4	20		19	305
NS	36	107	37	118	97
PMO					
SEO	17	53	17	36	14
US	182	1,336	233	282	42
Other	26	108	25	38	3
<b>Grand Total</b>	<b>497</b>	<b>2,183</b>	<b>392</b>	<b>688</b>	<b>757</b>

## Total Open Incidents by Age (days)



New Aging Incident process initiated Sept 20, 2021, including a one-time resolution event of ~5500 inactive incidents as part of implementation. Median age of incidents resolved during implementation was 578 days, and mean value was 566.5 days. This data excludes repair cases from open incidents.

## DoIT Operations Report Monthly Updates

**Gartner Benchmarks:** Gartner metrics have been updated to include 2024 overall medians, including interquartile ranges.

**Departmental Support Metrics:** The Endpoints Per Technician metric is updated for the January report. This metric is updated annually.

## DoIT INCIDENT AGING REPORT - TECHNICAL NOTES - WISCIT TEAMS PER DEPARTMENT

Department	
AIS	Active Directory ADI-Apps for Registrar ADI-IA Student Data Integration ADI-Internal Apps ADI-Web and Mobile Solutions AIS-Dept ECMS ECRT ECS-Equipment Checkouts EIS-Dept IAM Manifest Grouping Email Manifest-Grouping Manifest-Grouping Email MiddleWare Middleware Temp Multi-Factor Authentication MyUW MyUW-Admin MyUW-Advisor View MyUW-Feedback MyUW-Infrastructure NetID-AcctAdmin NetID-Login NetID-Login (Radius) NetID-Login-Radius Server Certificate Service Shared Hosting Shared Tools Shared Web Hosting Student Apps-Other UDS Identity Management UDS Identity Reconciliation UW Digital ID UW Knowledgebase Web Accessibility Web Accessibility Testing Tools WiscWeb CMS WiscWeb CMS Developers WiscWeb CMS Review WPS-Client Engagement
AT	Academic Systems-Linux AcademicSystems AcademicSystems-LIRA Advising Gateway AT-Dept AT-LS-MUMAA AT-TRAD Blackboard Collaborate Course Guide Course Proposal Course Resources Course Search and Enroll - Student Services Curricular Hub Digital Accessibility Digital Media Center Kaltura-UWSA Learn@UW Utility Learn@UW Utility-Technical Learn@UW-Madison Learning Technology Consultations Lecture Capture Service Life-Long Learners LinkedIn Learning LS LSS Team LTDE LTG HelpDesk LUWMAD-Collaboration LUWMAD-ContentAuth LUWMAD-LAA LUWMAD-LMS LUWMAD-Media LUWMAD-MediaDelivery Moodle OUA - Academic Systems PTE Support Streaming Media
CTO	Electronic Lab Notebooks
Cybersecurity	LastPass Qualys Scan Security Security Incident Security-Authorize Security-BADGIRT Security-CSOC Review Security-Dept Security-GRC Security-HRS Attestation Security-IT Access Security-OCIS Security-PAM Security-Tools
DoIT Communications	CIO-Dept Communications Communications-Dept COO-Dept DoITfeedbk DoITwebpages
DoIT HR	DoIT HR Assistants DoIT HR Director DoIT HR HRS DoIT HR In Progress DoIT HR Payroll and Benefits DoIT HR Staff
EBS	ADI EA Budget ADI-Budget ADI-Collaborative ADI-Dept ADI-Employee Apps ADI-Financial Services ADI-HRIS-Infrastructure ADI-Mainframe ADI-Student Apps DRMT-All DRMT-Data Tools DRMT-Database DRMT-DBA DRMT-Enterprise Tools DRMT-InfoAccess DRMT-Tools EPCS ERP Admin FASTAR DBA HR Apps-General HRS DBA Hyperion Deactivation InfoAccess Interactive Reporting Resource 25 Shared Financial DBA Shared Financial Sys Shared Financial Sys Batch SIS SIS-Admissions SIS-CampusCmmunity SIS-Finances SIS-Registrar
FS	CBS/STAR Onboarding Common Bus Sys DoIT Property Control e-Reimbursement Financial-Purchasing FS-Accounting FS-Dept FS-STAR
Non-DoIT teams	AIMS Help Desk CAVR-Campus and Visitor Relations Eloqua EXT-Ed Tech EXT-Enterprise Apps EXT-Help Desk EXT-WordPress Health Sci Learning Housing HSLC PFP-Parent and Family Program PI Financial Tool RO-Student Center and CS&E SMPH CIT SMPH CIT Apps Dev SMPH CIT CAVS SMPH CIT Desktop Support SMPH CIT Ed Tech SMPH CIT Network SMPH CIT Security SMPH CIT SEO SMPH LAR Student and Faculty Center Tableau UW-Madison Communications UWSC Absence Management UWSC Administrative Support UWSC AG1 UWSC AG1 Support UWSC AG2 UWSC AG2 Support UWSC AG3 UWSC AG3 Support UWSC Benefits UWSC Benefits Recon UWSC BERT UWSC CAT UWSC Communications UWSC EPM UWSC Finance UWSC HR UWSC Payroll UWSC Reconciliation UWSC Reconciliation and Reporting UWSC Reporting UWSC Security UWSC TAM UWSC Time and Labor UWSC Training UWSC WRS UWSC Z-AG UWSHR-HR Wisc.edu/Alerts.wisc.edu WiscAlerts (Tech)
NS	Network Svcs-Invtry NS-App Admins NS-Apps AANTS NS-Campus NS-Cisco-Webex NS-Dept NS-Field Services NS-Field Services-Voice NS-Firewall NS-Layer 4 NS-OpEng NS-OpEng-Monitoring NS-PCI NS-Video NS-Voice NS-Voice-Cellular NS-Voice-Cisco NS-Voice-EUC NS-Voice-Legacy NS-WAN SA-NS
PMO	ADI-PMO
SEO	ASE-Virtualization CAB CampusNetworkServers CAS-Report Distribution CAS-UW Digital ID CAS-UW Digital ID (Certificates) CAS-UW Digital ID (MFA) CCI-Virtualization Change Mgr Config Mgr Critical Infrastructure CSSC Building Maintenance DC Access DC Team DC Team-NoInstallDecomm DoIT Digital Publishing & Printing Event Mgr (Monitoring) Hostmaster HRS Time Clocks ITSM Team Mainframe Job Scheduling Mainframe Job Scheduling-UWSA PCI Hosting Public Cloud Report Distribution SA-SE SA-Virtualization SE SE-AD SE-AIX SE-Audit SE-BuckyBackup Support SE-Critical Infrastructure SE-Database SE-DSA SE-Linux SE-OSX SE-Solaris SE-StorageTeam SE-Virtualization SE-Windows SEO-Dept SEO-Firewall SEO-Mainframe SharedDrive SNCC-Network SNCC-NTN-ND SNCC-SvsNet SNCC-Svsods SNCC-Svsystems Management Doodle Support GoPrint InfoLabs Support KB Site Helpdesk Logistics 0365 Feature Requests 0365 Service Delivery 0365 Technical/Functional PC Recycling PCS-Dept PCS-o365 Service Delivery PCS-Shared Hosting Point of Sale Qualtrics Survey RaDS Repair Internal SA-RaDS Service Discovery Tech Store Tech Store L2 Tech Store Sys Dev US-Dept US-DS US-DS Andover US-DS Application Support US-DS Big Fix US-DS Desktop Bascom US-DS Desktop Contract US-DS Desktop DEM US-DS Desktop DoIT US-DS Desktop RSO US-DS Desktop UCOMM-UMARK US-DS Desktop WGNHS US-DS EMS US-DS Endpoint Management US-DS GDS Student US-DS Kiosks US-DS Office 365 OSC US-DS Operations US-DS PCI US-DS SAS US-DS SEAM US-DS Select Agent Labs US-DS Service Leads US-DS SOAR US-Help Desk US-Help Desk ALF/PAF US-Help Desk Closure US-Help Desk Development us-help desk east US-Help Desk EAST DS US-Help Desk Email US-Help Desk Email Test US-Help Desk HDQA US-Help Desk Internal US-Help Desk Operations US-Help Desk Service Changes US-Help Desk SMPH Support US-Help Desk Tools US-Help Desk UW C/EX Support US-Help Desk UW CEOEL Support US-Infolabs Kiosks US-Metrics and Data US-PM US-PM Apple US-PM Dell US-PM Hardware US-PM Math&StatsPKGS US-PM Software US-Repair Billing US-Repair Hardware US-Repair Internal US-Repair Parts US-Repair Pickup (333 ECM) US-Repair Pickup (Comp Sci) US-Repair Pickup (HSLC) US-Repair Printer US-Repair Software US-Service Desk UW Madison PCI UW-Madison Box UW-Madison Google Apps WiscChat WiscIT Governance WiscIT Reporting WiscIT Requests WiscIT Student Leads WiscIT Team WiscIT Test WiscList-Admin WiscMail WiscMail/WiscCal Zoom
UW Service Center	Bus Svc-MDS Bus Svc-Purchasing Madison Benefits Services Madison Benefits Services - Counseling Madison Benefits Services - Processing
UWSS	UWSS Service Delivery BN UWSS Service Delivery HR UWSS Service Delivery PY
Other	All remaining WiscIT Teams owning aging incidents

## DoIT OPERATIONS: TECHNICAL NOTES

### Help Desk

**HD:** Walk-in created incidents are considered Help Desk incidents beginning in FY20 due to the merger between former Tech Store (Service Desk) and the Help Desk that began on July 1st, 2019.

**HD-Overview: Cost per contact** FY19 will be used due to a six month minimum to calculate the Gartner benchmark. 2018 HDI Benchmarks will be used until the release of 2019 numbers.

**HD-Benchmark Details: First Contact Resolution** for Help Desk User Services has been defined as an incident opened by the Help Desk and resolved by the Help Desk, within one hour of the incident being created.

### Departmental Support

**DS-Overview:** Total number of endpoints that have been verified via IBM BigFix: within the past 45 days as of 11/5/2019

### SEO

**Active & Urgent Vulnerabilities:** Number of active vulnerabilities with a severity of 4 or 5

### Financial Services

**Average number of Days to Pay: E-reimbursement:** Length of time, in days, from point that the requests enter the Financial Services queue to reimbursement payment to the employee. Note: this is a metric measured by campus, so we are using campus average as a point of comparison.

**Days from SFS Close to CBS Close** is the amount of days from Campus Financial close to DoIT CBS close.

**Days from CBS Close to Management Report** is the amount of days from DoIT CBS close to the DoIT Manager Report finalization.

### Cybersecurity

**Cybersecurity Operation Center:** Includes the following categories with noted exclusions: Compromised Credentials; Copyright (excl. Campus Network Housing subcategories); CSOC; DNS Block Request; Duo Fraud; e-Discovery; Investigation (excl. Missing Person); Phishing; Suspicious Activity Report (excl. Shadowserver).

## DoIT OPERATIONS: TECHNICAL NOTES

### Digital Publishing and Printing Services Definitions

**Rework:** Work that needs to be reprinted due to operator error or miscommunication from internal staff.

**Average Rework percentage:** Derived percentage of total jobs requiring rework.

**Sales:** Monthly revenue from sale of print and print related projects.

**Jobs:** Total number print and print related projects per month.

**Average on-time percentage by stream:** Percentage of projects per production category completed by customer negotiated deadline.

### Category Definitions

**NetID Account Management:** Password resets and NetID change requests

**Office 365:** Support for @wisc.edu email and Microsoft Apps

**UW C/EX Support:** Any incident from a Colleges or Extensions user

**Referrals:** Unsupported services referred to other departments

**General Departmental Support:** Incidents from departmentally supported users

**BadgIRT:** Incidents regarding security disabled accounts

**Point of Sale (Tech Store):** Any incident regarding the Tech Store

**Campus Network:** Connectivity issues to UW-Net and device registration

**Learn@UW - Canvas Madison:** Support to UW-Madison students & staff with Canvas

**Multi-Factor Authentication (MFA):** Support to UW-Madison students, faculty, and staff with the MFA

**Learn@UW:** A suite of centrally-supported technologies for instructional usage; used by instructors and/or students. Learn@UW includes the services reported on the previous page and other learning technologies...

### Project Management Office - Portfolio Metrics Definitions

**Queued:** Project is scheduled with a future start date.

**On Hold:** Project was active but work has been paused.

**Stage Zero - Opportunity Development:** Engagement with an Enterprise Architect.

**Stage One - Proposed/Intake:** Project submission to the intake process; includes days in stage zero technical review.

**Stage Two - Prioritization:** Project prioritization to determine Now, Next, Later or Never category.

**Stage Three - Scheduling:** Projects with multiple DoIT units involved present at a scheduling team meeting to identify needed talent and available capacity.

**Stage Four - Project Go Live:** Project completes a go live preparation checklist with a peer review process.

**Stage Five - Project Closure:** Project closes the project by completing a closure preparation checklist with a peer review process.

**Total Days in Intake:** Total number of days project is in stages zero through three.

**Total Days in Process:** Total number of days project is in all six stages of the Project Portfolio Process.

**Major Projects:** Major projects include Board of Regent reportable projects, campus wide impact, significant use of resources/talent, crisis response. Major projects follow all stages of the portfolio process.