



# **DoIT Operations** Monthly Report

January 2021

Published February 17, 2021

# **GARTNER BENCHMARKS**

Gartner benchmarks have been updated on multiple pages from 2020 values to 2021 values. Gartner has changed their methodology to reporting median values, rather than average values.

Benchmark	2020	2021
Abadonment Rate	5.1 % Mean	4% Median
ost per Contact	\$17.90 Mean	\$19.80 Median
ost per Endpoint	\$1078 Mean	\$1193 Median
indpoints per Technician	499 Mean	212 Median
irst Contact Resoultion Rate	74% Mean	71% Median
inux Servers per FTE	268.0 Mean	234.0 Median
Nindows Servers per FTE	279.0 Mean	293.0 Median









## DoIT Operations Report Table of Contents

Applications Infrastructure Services	page 1-3
User Services	page 4-10
Enterprise Business Systems	page 11
Network Services	page 12-14
Systems Engineering & Operations	page 15-21
Academic Technology	page 22-23
Financial Services	page 24
Cybersecurity	page 25
DoIT Incident Aging Report	page 26
Monthly Updates	page 27
Technical Notes	page 28-30

#### DoIT OPERATIONS: APPLICATIONS INFRASTRUCTURE SERVICES SERVICE AVAILABILITY

#### Last 12 months

Service	Target	February %	March %	April %	May %	June %	July %	August %	September %	October %	November %	December %	January %
API Manager	99.00%	100.00	100.00	<b>★</b> 89.24	<b>★</b> 90.06	<b>★</b> 96.18	100.00	100.00	100.00	100.00	<b>★</b> 97.38	100.00	100.00
Enterprise Content Management (ECM)	99.00%	<b>★</b> 97.56	99.96	100.00	100.00	<b>★</b> 97.78	100.00	100.00	<b>★</b> 98.76	<b>★73.25</b>	100.00	99.86	100.00
Enterprise Service Bus (ESB)	99.00%	100.00	100.00	100.00	<b>★</b> 93.30	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Knowledgebase (KB)	99.00%	100.00	99.95	99.91	100.00	99.90	100.00	100.00	100.00	100.00	100.00	100.00	100.00
My UW	99.00%	99.91	99.78	100.00	100.00	100.00	100.00	100.00	99.58	100.00	100.00	100.00	100.00
NetID Login	99.90%	100.00	99.97	100.00	99.98	100.00	100.00	100.00	100.00	100.00	100.00	100.00	99.99
Shared Web Hosting	99.00%	<b>★</b> 98.72	<b>★</b> 83.37	99.93	<b>★</b> 97.21	99.33	100.00	100.00	100.00	100.00	100.00	99.96	<b>★</b> 98.07
Wisc Web	99.00%	<b>★</b> 97.55	<b>★</b> 75.41	99.82	100.00	<b>★</b> 94.99	99.99	99.91	100.00	<b>★</b> 98.69	99.93	100.00	100.00

Target Colors

★ ■ Below Target ■ Above Target





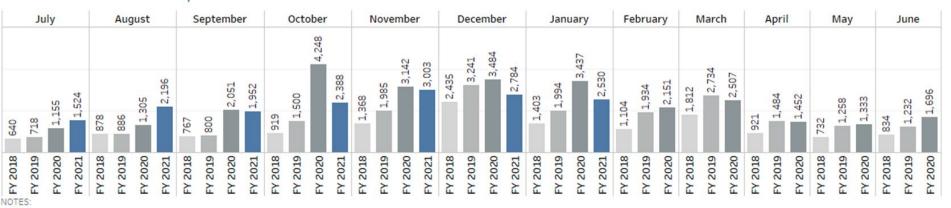


#### DoIT OPERATIONS: APPLICATION INFRASTRUCTURE SERVICES - IAM SERVICES OVERVIEW

## 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	IAM Target:
Multi-Factor Authentication (MFA)	1,161	38.3%	1,145	1,099	96.0%	89.9%	95.3%	HD % Resolution  At or above 85.0%
NetID Account Management	1,348	44.4%	1,316	1,158	88.0%	84.1%	93.7%	2021 Gartner Benchmark: First Contact Resolution  Above 71.0%
All IAM Incidents	3,090	100.0%	2,588	2,362	91.2%	86.0%	94.6%	IAM Target: Customer Satisfaction  At or above 85.0%

#### IAM Services Annual Help Desk Contacts



Resolution Percentage = incidents resolved by the Help Dest rather than being escalated to a specific service team

7.070.

This visualization was created by DolT in the Department of User Services.

DolT

<sup>\*\*</sup>Survey respondents rate satifaction on a 7 point scale in response to: "We value your opinion. How was your experience with us?" - HDI has changed their measure of Customer Satisfaction sufficiently to warrant transitioning away from that benchmark. Until a suitable benchmark can be located and evaluated, we have set a User Services target.

<sup>\*\*\*</sup> 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.

Gartner 2020 Benchmark First Contact Resolution is 74.0%.

#### 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)	30	6.4%	3	3	100.0%		
MyUW Madison/System	189	40.5%	186	159	85.5%	87.5%	88.8%
Shared Tools	17	3.6%	16	2	<b>★</b> 12.5%		
Web Hosting	140	30.0%	6	4	66.7%		
WiscWeb	67	14.3%	66	25	<b>★</b> 37.9%	<b>★</b> 66.7%	<b>★71.4%</b>

#### AIS-WPS Targets: HD % Resolution by Service

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

2021 Gartner Benchmark: First Contact Resolution

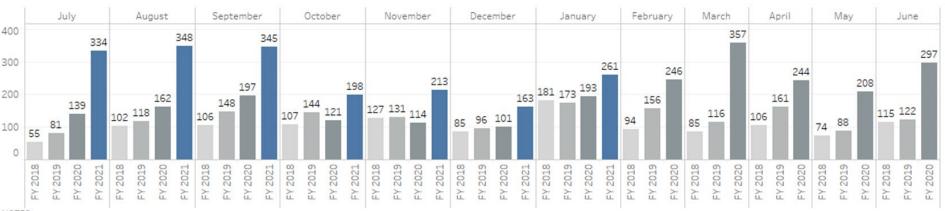
Above 71.0% ■ Below 71.0% ★

WPS Services Target: Customer Satisfaction

At or above 85.0%

■ Below 85.0% ★

## WPS Services Annual Help Desk Contacts



NOTES:

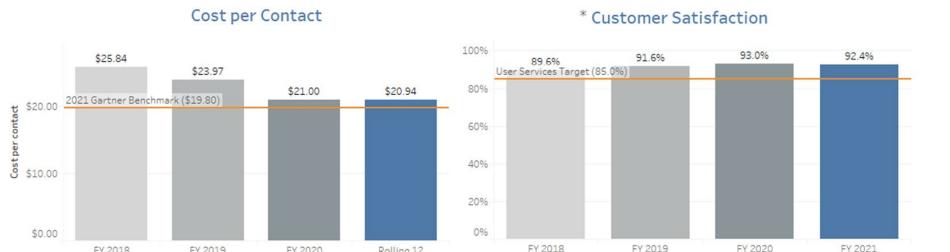
<sup>\*\*\*</sup> First Contact Resolution has been defined as a phone incident opened by the Help Desk and resolved by the Help Desk, within one hour of the incident being created. As only phone incidents are looked at this metric may be blank if no phone incidents were reported for that service during the previous month. Gartner 2020 Benchmark First Contact Resolution is 74.0%



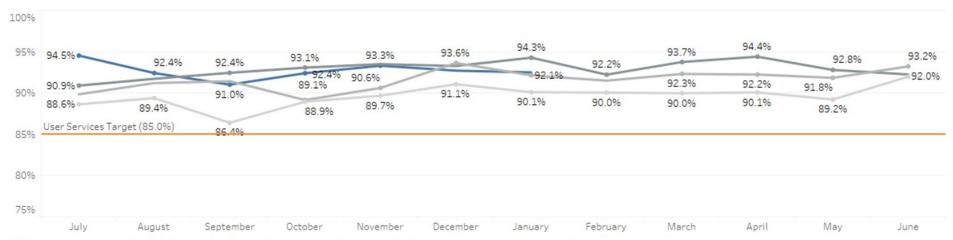
<sup>\*</sup>Resolution Percentage = incidents resolved by the Help Dest rather than being escalated to a specific service team

<sup>\*\*</sup>Survey respondents rate satisfaction on a 7 point scale in response to: "We value your opinion. How was your experience with us?" - HDI has changed their measure of Customer Satisfaction sufficiently to warrant transitioning away from that benchmark. Until a suitable benchmark can be located and evaluated, we have set a User Services target.

#### DoIT OPERATIONS: USER SERVICES-HELP DESK OVERVIEW



#### FY 2018 **Customer Satisfaction**



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

FY 2020

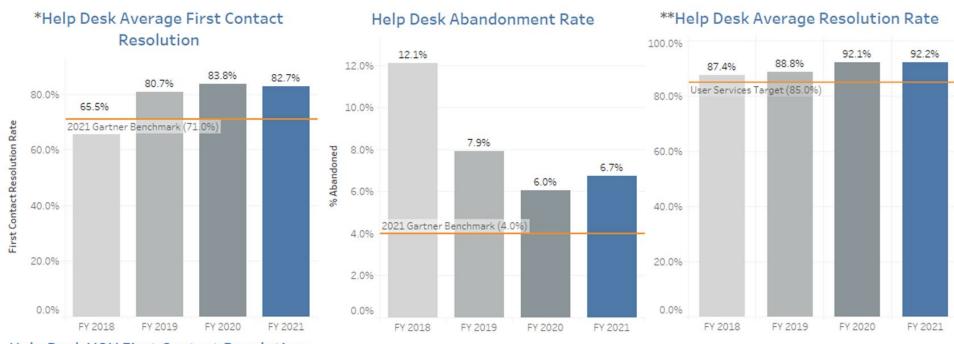
Rolling 12

Gartner 2019 Benchmark Cost Per Contact is \$16.30, Gartner 2020 Benchmark Cost Per Contact is \$17.90.

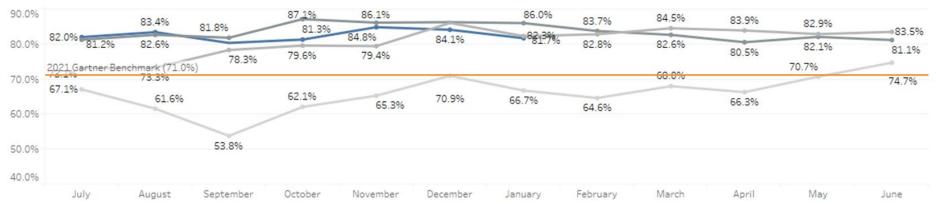
FY 2019

<sup>\*</sup>HDI has changed their measure of Customer Satisfaction sufficiently to warrant transitioning away from that benchmark. Until a suitable benchmark can be located and evaluated, we have set a User Services target.





# Help Desk YOY First Contact Resolution



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.

Gartner 2019 Benchmark Abandonment Rate is 7.4% and First Contact Resolution is 70.6%. Gartner 2020 Benchmark Abandonment Rate is 5.1% and First Contact Resolution is 74.0%.





#### HELP DESK RESOLUTION RATES FOR TOP 10 SUPPORTED SERVICES IN JANUARY

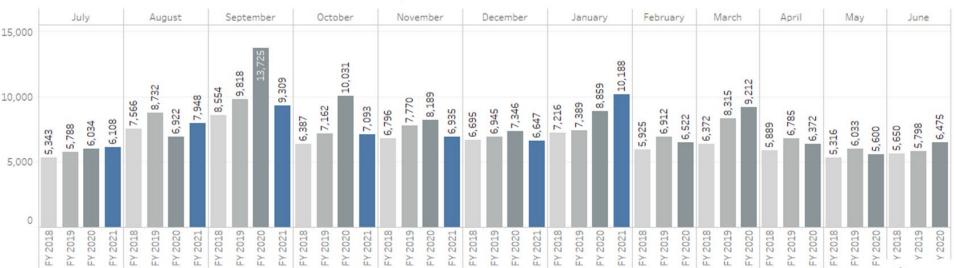
	Number of Records	% of Total cases created	HD Resolved	** HD % Resolved
NetID Account Management	1,316	12.9%	1,135	86.2%
Safer Badgers, General	1,275	12.5%	1,196	93.8%
Multi-factor Authentication (MFA)	1,145	11.2%	1,084	94.7%
Office 365	764	7.5%	651	85.2%
Hardware Checkout	746	7.3%	517	<b>★</b> 69.3%
Referrals	669	6.6%	608	90.9%
Learn@UW - Canvas Madison	482	4.7%	352	<b>★73.0</b> %
Course Search and Enrollment App	439	4.3%	390	88.8%
UW-Madison Zoom	430	4.2%	325	<b>★75.6</b> %
Safer Badgers, Referrals	258	2.5%	255	98.8%

User Services Target: HD % Resolution

★ ■ Below 85.0%

At or above 85.0%

# \*Help Desk Annual Contacts



NOTES: \* Walk-in incidents are included for only FY20 to reflect the Walk-in & Help Desk merger

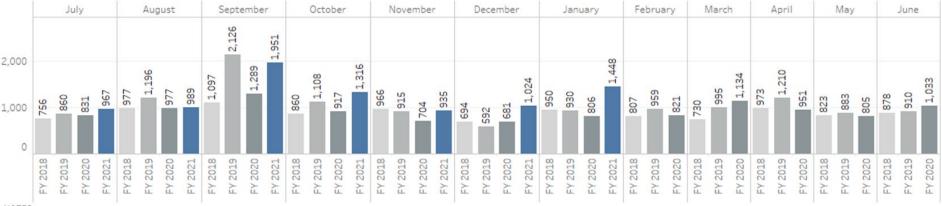
<sup>\*\*</sup>Resolution Percentage = incidents resolved by tier 1 or tier 2 support (instead of escalating to a specific service team)

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

# 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	
Office 365	795	48.6%	764	669	85.2%	73.7%	91.5%	User Services Target: HD% Resolution
UW-Madison Zoom	526	32.2%	430	329	<b>★75.6%</b>	77.9%	96.2%	■ At or above 85.0% ■ Below 85.0% ★
UW-Madison Google Apps	143	8.7%	141	100	<b>★</b> 70.2%	75.9%	85.7%	2021 Gartner Benchmark:
UW-Madison Box	88	5.4%	64	35	<b>★</b> 53.1%	73.3%	<b>★</b> 82.7%	First Contact Resolution Above 71.0%
WiscList	50	3.1%	23	11	<b>★</b> 47.8%	<b>★</b> 66.7%	<b>★</b> 82.1%	■ Below 71.0% ★  User Services Target:
Qualtrics	27	1.7%	19	16	<b>★</b> 84.2%	71.4%	100.0%	Customer Satisfaction  At or above 85.0%
Cloud Fax	7	0.4%	7	4	<b>★57.1%</b>	100.0%		■ Below 85.0% ★

#### PCS Services Annual Help Desk Contacts



NOTES:

<sup>\*\*\*</sup> 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. Gartner 2020 Benchmark First Contact Resolution is 74.0%

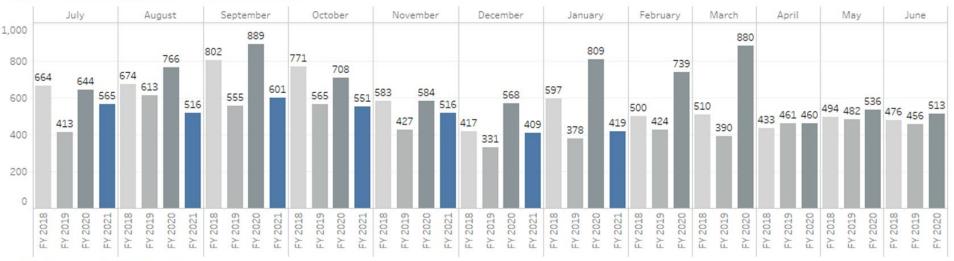


<sup>\*</sup>Resolution Percentage = incidents resolved by the Help Dest rather than being escalated to a specific service team

<sup>\*\*</sup>Survey respondents rate satisfaction on a 7 point scale in response to: "We value your opinion. How was your experience with us?"-HDI has changed their measure of Customer Satisfaction sufficiently to warrant transitioning away from that benchmark. Until a suitable benchmark can be located and evaluated, we have set a User Services target.

#### DOIT OPERATIONS: USER SERVICES - DEPARTMENTAL SUPPORT OVERVIEW

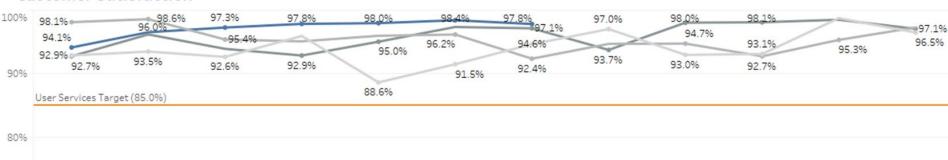
# Departmental Support - Annual Contacts



#### **Customer Satisfaction**

70%

July



NOTES: Departmental Support Annual Contacts represent cases resolved by DS teams.

August

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

September

7 Completely satisfied, 6 Mostly satisfied, 5 Somewhat satisfied, 4 Neither satisfied nor dissatisfied, 3 Somewhat dissatisfied, 2 Mostly dissatisfied, 1 Completely dissatisfied

November

HDI has changed their measure of Customer Satisfaction sufficiently to warrant transitioning away from that benchmark. Until a suitable benchmark can be located and evaluated, we have set a User Services target.

December

January

February

June

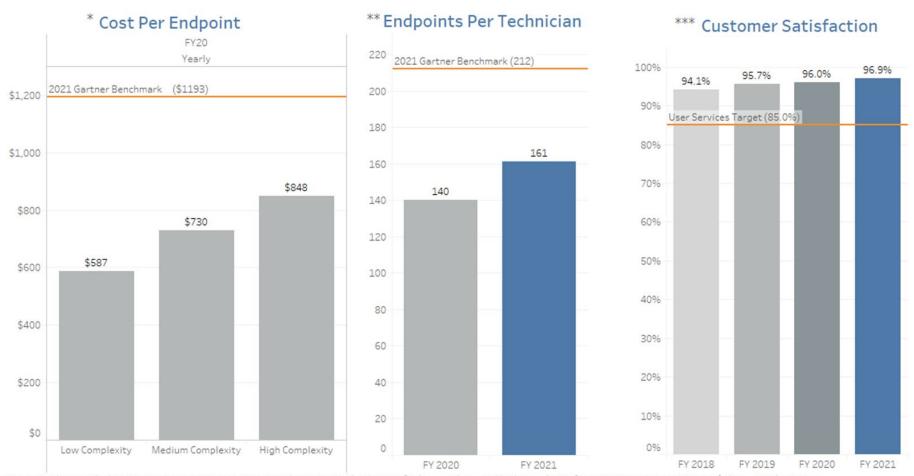
This visualization was created by DolT in the Department of User Services.

April

May

March

#### DOIT OPERATIONS: USER SERVICES - DEPARTMENTAL SUPPORT METRICS



The price per endpoint calculation uses representative contracts to demonstrate the the cost for low, medium, and high complexity for support contract customers (where complexity is a composite of factors such as diversity of supported models, geographic dispersion and scope of supported services).

\*FY20 will be used until we process captured data.

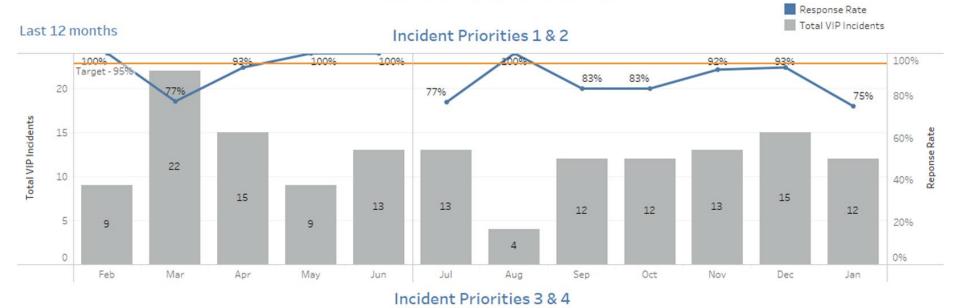
DolT

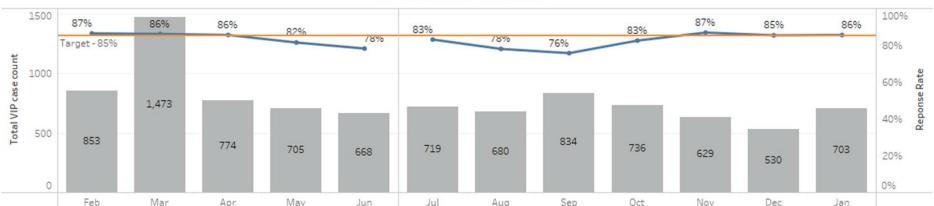
<sup>\*\*2020/2021</sup> Gartner Benchmarks include printers. We are exploring the ramifications for our reporting methods. 2019 Gartner benchmark was 283 Endpoints per Technician. Previously published 2020 value (499) was overall average. The 2020 average for Small Environments was 406. Updated December 2020.

<sup>\*\*\*</sup>Survey respondents rate satifaction on a 7 point scale in response to: " We value your opinion. How was your experience with us?" Until a suitable benchmark can be located and evaluated, we have set a User Services target.

<sup>2019</sup> Cost Per Endpoint Benchmark was \$988 and our complexity levels for FY19 were \$587 for low complexity, \$783 for medium complexity, and \$977 for high complexity. 2020 Cost Per Endpoint Benchmark was \$1078. This visualization was created by DolT in the Department of User Services.

# DoIT OPERATIONS: DEPARTMENTAL SUPPORT SERVICE LEVEL AGREEMENT (SLA) RESPONSE RATE SLA = One hour acknowledgement





Included incidents fall under a Departmental Support SLA of one hour response time and are owned or resolved by a DS team or created, owned, and resolved by HDL2 working on Departmental Support cases. All services and categories are included. Priority definitions included in Technical Notes.



#### DOIT OPERATIONS: ENTERPRISE BUSINESS SYSTEMS SERVICE AVAILABILITY

#### Last 12 months

		February	March	April	May	June	July	August	September	October	November	December	January
Service	Target	%	%	%	%	%	%	%	%	%	%	%	%
HRS	99.000%	99.603	100.000	99.313	100.000	<b>★</b> 98.935	100.000	100.000	<b>*</b> 91.271	<b>*</b> 96.013	100.000	100.000	<b>*</b> 97.050
SFS	99.000%	99.968	99.941	99.989	99.464	100.000	100.000	100.000	100.000	100.000	99.799	100.000	100.000
SIS	99.000%	100.000	100.000	99.998	100.000	100.000	100.000	99.953	100.000	100.000	100.000	100.000	99.933
Informatica (FASTAR)	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
UWBI (OBIEE)	98.000%	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000
Workload Automation	99.000%	<b>★</b> 98.904	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000

Target Colors



#### NOTES:



<sup>\*</sup>To more closely align Service Availabilty reporting with WiscIT reporting, planned outages will not be included in SA calculations beginning in March FY2020. Historical data will still include planned outages.

#### DoIT OPERATIONS: NETWORK SERVICES - WAN SERVICE AVAILABILITY

Network	Target	November %	December %	January %	Network	Target	November %	December %	January %	Network	Target	November %	December %	January %
Upham Woods	99.900%	<b>*</b> 98.059	100.000	99.997	UW Platteville	99.900%	100.000	100.000	100.000	UWC Manitowoc	99.900%	100.000	100.000	100.000
UW Colleges Extension	99.900%	100.000	100.000	100.000	UW River Falls	99.900%	100.000	100.000	100.000	UWC Marathon Co.	99.900%	100.000	100.000	100.000
UW Eau Claire	99.900%	100.000	100.000	100.000	UW Stevens Point	99.900%	100.000	100.000	100.000	UWC Marinette	99.900%	100.000	100.000	100.000
UW Green Bay	99.900%	100.000	100.000	100.000	UW Stout	99.900%	100.000	100.000	100.000	UWC Marshfield Wood Co.	99.900%	100.000	100.000	100.000
UW Health	99.900%	100.000	100.000	100.000	UW Superior	99.900%	100.000	100.000	100.000	UWC Richland	99.900%	100.000	100.000	100.000
UW La Crosse	99.900%	100.000	100.000	100.000	UW Whitewater	99.900%	100.000	100.000	100.000	UWC Rock Co.	99.900%	100.000	100.000	100.000
UW Madison	99.900%	100.000	100.000	100.000	UWC Baraboo Sauk Co.	99.900%	100.000	100.000	100.000	UWC Sheboygan	99.900%	100.000	100.000	100.000
UW Milwaukee	99.900%	100.000	100.000	100.000	UWC Barron Co.	99.900%	100.000	100.000	100.000	UWC Washington Co.	99.900%	100.000	100.000	100.000
UW Oshkosh	99.900%	100.000	100.000	100.000	UWC Fond du Lac	99.900%	100.000	100.000	100.000	UWC Waukesha	99.900%	100.000	100.000	100.000
UW Parkside	99.900%	100.000	100.000	100.000	UWC Fox Valley	99.900%	100.000	100.000	100.000			,	,	

# Target Colors ★ ■ Below Target ■ Above Target

-Availability is for wired (not wi-fi) connectivity at each instituation. 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

INI

34.50

% of full capacity (20Gbps)

30.00

	IN					O	UI		
		20-Nov	20-Dec	21-Jan			20-Nov	20-Dec	21-Jan
UW-Madison campus	Avg (Gb/sec)	7.60	5.00	5.40	UW-Madison campus	Avg (Gb/sec)	2.50	2.40	3.30
	Max (Gb/sec)	16.30	16.30	16.60		Max (Gb/sec)	14.20	10.00	15.30
	Min (Gb/sec)	1.70	1.10	1.40		Min (Gb/sec)	0.91	0.97	0.92
	% of full capacity (100Gbps)	7.60	5.00	5.40		% of full capacity (100Gbps)	2.50	2.40	3.30
UW-Madison research	Avg (Gb/sec)	16.20	16.60	19.70	UW-Madison research	Avg (Gb/sec)	15.90	13.50	15.70
	Max (Gb/sec)	90.30	65.40	67.50		Max (Gb/sec)	60.20	38.50	47.00
	Min (Gb/sec)	6.20	6.80	8.40		Min (Gb/sec)	4.50	4.40	3.90
	% of full capacity (100Gbps)	16.20	16.60	19.70		% of full capacity (100Gbps)	15.90	13.50	15.70
Internet Exchange	Avg (Gb/sec)	6.90	6.00	7.50	Internet Exchange	Avg (Gb/sec)	6.60	3.60	4.70
(MadIX)	Max (Gb/sec)	13.40	11.80	14.20	(MadIX)	Max (Gb/sec)	10.50	6.40	8.80
	Min (Gb/sec)	0.00	0.00	0.00		Min (Gb/sec)	0.00	0.00	0.00

% of full capacity (20Gbps)

37.50

<sup>-</sup>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.



23.50

This visualization was created by DolT in the Department of User Services.

33.00

18.00

OUT

<sup>-</sup>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.

<sup>-95</sup>th 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.

#### DoIT OPERATIONS: NETWORK SERVICES - WIRELESS ACCESS POINTS

Airwave 1 Total Controllers: 8	Target	February	March	April	May	June	July	August	September	October	November	December	January
Access Points Avg. Uptime per Day	99.50%	99.73%	99.73%	<b>*</b> 99.48%	<b>*</b> 99.16%	<b>*</b> 99.14%	<b>*</b> 99.20%	<b>*</b> 98.97%	<b>*</b> 98.56%	<b>*</b> 98.51%	<b>*</b> 98.47%	<b>*</b> 98.55%	<b>*</b> 98.59%
Avg. AW1-Controller Uptime per Day	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	<b>*</b> 99.94%	100.00%
Avg. Number of APs Down per Day		26.55	26.52	41.23	53.65	56.27	56.61	76.42	89.10	88.65	77.53	80.84	71.48
Airwave 2 Total APs: 4679	Target	February	March	April	May	June	July	August	September	October	November	December	January
Access Points Avg, Uptime per Day	99.50%	99.96%	99.92%	99.92%	99.83%	<b>*</b> 99.45%	<b>*</b> 99.37%	99.71%	99.84%	99.80%	99.77%	99.66%	99.67%
Avg. AW2-Controller Uptime per Day	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Avg, Number of APs Down per Day		7.97	19.42	21.57	46.71	33.27	34.48	27.42	14.10	15.87	29.60	28.61	53.29
Airwave 3 Total Controllers: 4 Total APs: 2831	Target	February	March	April	May	June	July	August	September	October	November	December	January
Access Points Avg Uptime Per Day	99.50%	99.95%	99.95%	99.93%	99.84%	99.79%	99.81%	99.77%	99.64%	99.70%	99.80%	99.84%	99.87%
Avg. AW3-Controller Uptime per Day	100.00%	100.00%	100.00%	100.00%	<b>*</b> 99.61%	<b>*</b> 99.98%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	<b>*</b> 99.99%
Avg Number of APs Down per Day		1.59	1.52	14.50	5.65	9.77	9.29	25.81	15.77	18.94	11.50	12.13	18.65

Airwave is the HPE/Aruba network management platform, offering visibility into wired and wireless networks, specifically designed with mobile devices in mind. It enables proactive monitoring of the health and performance of wireless networks and scales to 4000 devices per instance.

Access Points Benchmark:

At or above 99.5%

★ ■ Below 99.5%

Controller Uptime Benchmark:

■ At 100.0%% ★■ Below 100.0%

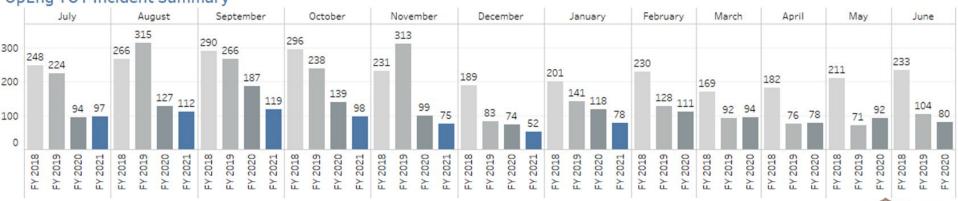




## DoIT OPERATIONS: OPERATIONS ENGINEERING INCIDENT SUMMARY

Four Months I	ncident Summary by Subcategory	October	November	December	January
Campus Network	AANTS	2	5	2	4
	Bandwidth Threshold Alarm	3	3	5	2
	Firewall/Install			1	1
	Firewall/Problem	5	1	1	2
	Firewall/Rules	1	5	1	
	Port Error Threshold Alarm	1	2	2	
	Request/Data Jack/Activation	2	2	2	2
	Request/DHCP	3		3	
	Request/DNS/Hostmaster	3		1	2
	Request/DNS/Network Services	16	10	4	20
	Request/Equipment Installation	1	1		
	Request/Hardware	2	3		5
	Request/IP Allocation	19	14	10	10
	Video		1		
	Wired Network Issue	12	3	8	2
	Wireless	9	9	4	10
	Wireless Device Registration	1			
Campus Network	Device Registration HAP	6	4		9
Housing	HAP Reset	1	1	1	
	Latency or Packet Drop		3		
VPN	Client Issue		2	2	1
	Submit Incident	9	3	2	6
eduroam	Submit Incident	1	1		
	Troubleshooting		1	1	
Others	-	1	1	2	2
Grand Total		98	75	52	78

# OpEng YOY Incident Summary



**DolT** 

#### DoIT OPERATIONS: SYSTEMS ENGINEERING AND OPERATIONS SERVICE AVAILABILITY

Last 12 months		February	March	April	May	June	July	August	September	October	November	December	January
Service	Target	%	%	%	%	%	%	%	%	%	%	%	%
Bucky Backup	99.000%	100.000	99.870	99.386	100.000	100.000	100.000	99.615	<b>★</b> 95.769	<b>★</b> 98.329	99.188	100.000	100.000
Campus Card Access	99.500%	<b>★</b> 98.904	100.000	100.000	100.000	100.000	100.000	99.617	100.000	100.000	100.000	100.000	100.000
Campus Computing Infrastructure	99.500%	100.000	100.000	100.000	99.989	100.000	100.000	100.000	100.000	100.000	<b>★</b> 99.477	100.000	100.000
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 (Cypress)	98.000%	<b>★</b> 96.244	100.000	99.921	99.921	100.000	99.664	100.000	100.000	100.000	99.799	100.000	100.000
Select Agent	99.900%	100.000	100.000	100.000	<b>★</b> 97.258	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000
Storage	99.900%	100.000	<b>★</b> 95.616	100.000	100.000	100.000	<b>★</b> 98.132	100.000	100.000	100.000	100.000	100.000	100.000
Video Monitoring System	99.900%	100.000	100.000	100.000	100.000	100.000	99.973	100.000	100.000	100.000	100.000	100.000	99.960
WiscIT (Cherwell)	99.500%	100.000	100.000	100.000	100.000	99.944	99.630	100.000	100.000	<b>★</b> 86.962	100.000	<b>★</b> 99.375	100.000

Target Colors

★ ■ Below Target ■ Above Target

NOTES:

\*To more closely align Service Availabilty reporting with WiscIT reporting, planned outages will not be included in SA calculations beginning in March FY2020. Historical data will still include planned outages.





#### DoIT OPERATIONS: SOLUTIONS ENGINEERING SYSTEMS MANAGEMENT SUMMARY

	SLA % Availability	Availability % of Total Time	Number of Servers Managed	Customer Requests	Servers per FTE	Gartner 2021 Median Servers/FTE
Windows	99.950	99.990	339	98	150.7	293.0
Linux	99.950	99.990	412	110	164.8	234.0

# Top Customers By Percentage of Labor Hours

	Rank	% of Total
DoIT - Public Cloud Service	1	15.60%
DolT Internal Customers	2	13.70%
DolT - Microsoft SQL Server Hosting	3	6.70%
HRS	4	2.30%
UWPD	5	3.10%
SFS	6	2.00%
MILER	7	1.80%
WHS	8	1.00%
Rec Sports	9	1.00%
WiscIT	10	0.90%

# Top Customers By Server Count

	Rank	# of Servers
Cybersecurity	1	98
SFS, HRS	2	96
dentity and Access Management	3	60
OolT Web Platform Services	4	47
Student Information System	5	40
Office 365	6	27
maging	7	25
Oatabase Aggregation (FASTAR)	8	24
OolT Service Management	9	23
Wisconsin Historical Society	10	22



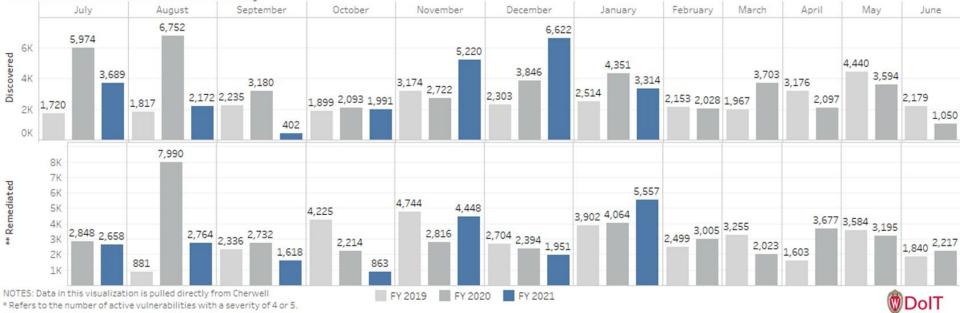
#### DOIT OPERATIONS: SOLUTIONS ENGINEERING VULNERABILITIES SUMMARY

### Four Months Vulnerability Summary

Type	Severity	October	November	December	January
Potential Vulnerability	1	1	2	2	
	2	4	1		
	3	33	38	4	12
	4		1	8	8
	5			1	
Vulnerability	1	74	13	9	6
	2	141	112	87	116
	3	583	2,025	3,093	884
	4	1,015	2,471	1,976	1,451
	5	126	539	1,437	781
Vulnerability or Potential Vulnerability	2		2		
	3	7	6	3	8
	4	7	9	1	48
	5		1	1	
Grand Total		1,991	5,220	6,622	3,314

# \*Active & Urgent Vulnerabilities 102 Remaining From January 5

SEO YOY Vulnerabilities Summary



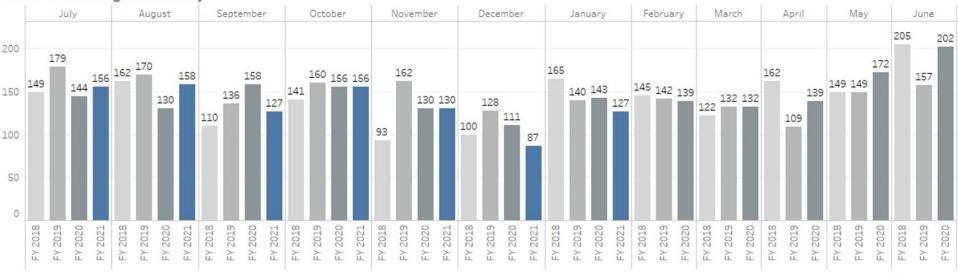
<sup>\*</sup> Refers to the number of active vulnerabilities with a severity of 4 or 5. \*\*Remediated data is currently not available prior to August 2018

#### **DOIT OPERATIONS: SYSTEMS & NETWORK CONTROL CENTER**

## \* Four Months Network Problem Summary

Technical Service	October	November	December	January
Boreas	7	13	2	7
Campus Network	71	96	119	72
MUFN	4	5	3	4
Northern Tier	1	3		
UW SysNET	15	15	10	7
Grand Total	98	132	134	90

### SEO YOY Outage Summary



<sup>\*</sup>If blank, zero problems were reported.

DoIT

#### **Data Center Power Demand Forecast**



May 2020 -OneNeck footprint is trending up as WIPAC (IceCube) continues its evacuation of 222 W. Washington and we shift more of our mission-critical systems Site A to OneNeck.

12.8

12.8

12.8

July 2020

12.8

September 2020

November 2020

12.8

November 2019

0

12.8

January 2020

12.8

-MFCB will slightly decline as we propose to move Select Agent Site B from MFCB to OneNeck, pending Network Services design.

12.8

March 2020

This visualization was created by the Department of User Services.

January 2021

7.9

7.9

March 2021

Site

DolT

•7.9

May 2021

<sup>-</sup>CSSC footprint is trending up significantly due to research storage, CyberSecurity Elastic servers, and updates to Select Agent and other infrastructure.

<sup>-</sup>WARF is being evacuated through attrition.

#### DOIT OPERATIONS: DIGITAL PUBLISHING & PRINTING SERVICES

#### **DPPS** Rework Information At or Below 0.10% \* Total Revenue

0.00%

0.00%

0.00%

0.00%

0.00%

0.00%

0.00%

0.00%

Cost of Rework

\$0.00

\$0.00

\$0.00

\$0.00

\$0.00

\$0.00

\$0.00

\$0.00



## **Total Jobs**

June

July

August

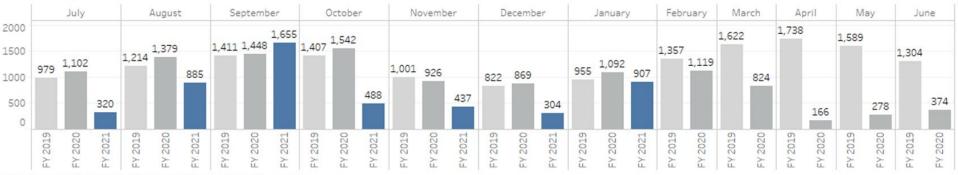
October

November

December

January

September



Average	On-Time	Percentage	by Stream
---------	---------	------------	-----------

Total Rework

0

0

0

0

0

0

0

0

Average On-Time Pe	rcentage by 30	<b>★</b> ■ 8	3elow 99.90%	At or Above 99.90%				
	June	July	August	September	October	November	December	January
Contract	<b>★</b> 95.65%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Digital Black	<b>★</b> 97.56%	100.00%	<b>★</b> 92.09%	<b>★</b> 96.92%	<b>★</b> 94.00%	100.00%	100.00%	100.00%
Digital Color	<b>★</b> 95.76%	100.00%	<b>★</b> 94.87%	<b>★</b> 93.67%	<b>★</b> 93.96%	<b>★</b> 99.40%	<b>★</b> 99.40%	99.97%
Extension DPC	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Large Format	<b>★</b> 85.71%	100.00%	<b>★</b> 97.69%	<b>★</b> 95.80%	100.00%	100.00%	100.00%	100.00%
Offset Print	<b>★</b> 97.14%	100.00%	<b>★</b> 94.55%	<b>★</b> 93.84%	<b>★</b> 96.96%	<b>★</b> 94.25%	<b>★</b> 95.25%	<b>★</b> 99.76%
School of Human Ecology DPC	100.00%	100.00%	100.00%	<b>★</b> 99.01%	100.00%	100.00%	100.00%	100.00%
WEBCRD **	<b>★</b> 0.00%	100.00%	100.00%	100.00%	100.00%			
WSB DPC	<b>★</b> 0.00%	100.00%	<b>★</b> 97.84%	<b>★</b> 96.77%	100.00%	100.00%	100.00%	<b>★</b> 96.12%

<sup>\*</sup> Total Revenue adjusted in June FY20 and August FY21 by +/- \$385K



FY 2019

FY 2020

FY 2021

<sup>\*\*</sup> NOTE: As of November 2020, WEBCRD has been consolidated into WSB DPC.



# DoIT OPERATIONS: ACADEMIC TECHNOLOGY - LEARN@UW USAGE & SUPPORT

							Notes: Kaltura
		Sep-20	Oct-20	Nov-20	20-Dec	Jan-21	
1/-14	Incidents Resolved by Help Desk	146	62	36	25	45	audio file, but it could also be an image
Kaitura	Incidents Resolved by Learn@UW Madison	41	18	22	21	21	Time Played: Total amount of time all Kaltura media assets were played during the
Madiachaca	Average Play Time (mins)	12	13	14	15		month  Avg. Play Time: Time played divided by number of plays
	Contributors		3.244	3,744	7.195		Unique Viewers: Students, most often
	Duration of uploaded media		304,308	249,786	2,617,780		Duration of uploaded media: length (minutes) of new video assests this month
	New Media Assets	19,437	16,481	14,395	59,736		Contributors: Persons uploading assests to Kaltura - most often instructors.
	Number of Plays	1,535,005	1,404,686	1,127,236	617,645		-Total media assets for current month does not equal total media assets from previous
	Storage Utilized (TB)	92	98	102	132		month plus new media assets in current month because some user have deleted assets in the meantime
	Time Played (mins)	18.167.594	18,658,422		9,197,828		-Reported numbers of unique viewers is low by an unknown amount of users because
	Total Media Assets	180,086	196,291	210,776	270.515		Kaltura Mediaspace does not collect unique user data for media embedded via iframes
	Unique viewers		29,537	27,740	24,687		or assets that allow public viewers
	Incidents Resolved by Help Desk	4	2	1	3	1	Turnitin Active Classes: The number of classes that had any activity (submissions, marks,
Transmitted on	Incidents Resolved by Learn@UW Madison	0	2	1	0	3	assignment creation, new students, etc.) within the month
11.000011000001	Active Classes	533	599	581	628	471	
	Active Instructors	615	812	863	963	449	active classes
1	Instructor Accounts	2,423	2,580	2,670	2.751	2,835	Student Accounts: The total number of student accounts as of end date (cumulative)
	Student Accounts	26.134	28.836	30.053	31.002	31,224	Instructor Accounts: The total number of instructor accounts as of end date (cumulative) Submissions: Typically text documents in .doc, .pdf, other wordprocesing formats, or
1	Submissions	29,475	50.541	43,242	38.894	2,425	
-	Incidents Resolved by Help Desk	1	0	2	0	1	ACAR (Advanced Content Authoring and Reporting)
	Incidents Resolved by Learn@UW Madison	13	7	3	9	8	Pressbooks: Number of Pressbooks in the UW-Madison instance; each pressbook is a
ACAR	New Pressbooks this Month	5	9	9	2	4	subsite on the UW-Madison instance Storyline 360: Total number of storyline modules in all UW-Madison subsites on
i i	New Storyline 360 Modules this Month	4	0	0	4	1	
	Total Pressbooks	515	524	533	535	539	User: Anyone with an account in Pressbooks (whether as subscriber, editor,
	Total Storyline 360 Modules	184	184	184	188	189	administrator, or super-admin)
	Unique Users	7.954	8,242	8,271	8,302	8,898	Canvas
7	Incidents Resolved by Help Desk	647	270	171	195	418	Active Course: A canvas shell is created for every course offered at UW-Madison.  "Active" Canvas courses are those manually activated by an instructor
	Incidents Resolved by Learn@UW Madison	221	126	97	128	166	
	Active For-Credit Courses	3,878	3,945	3,964	3,957	3,710	or admins)
	Active Training Courses	573	590	591	607	640	Instructor: Number of Canvas course enrollments with the "instructor" role
	Unique Instructors	5,431	5,566	5,668	5,665	5,009	(predominately actual course instructors, occasionally will include a course coordinator or support staff)
	Unique Students	42,399	42,520	42,421	42,165	40,351	Atomic Assessments
Ī	Incidents Resolved by Help Desk	3	4	0	2	0	
A 4 ! -	Incidents Resolved by Learn@UW Madison	10	9	1	4	2	daterange
Assessments		63	59		47		Instructors: Users with "instructors" role, which may include some number of course
	Instructors	400	390		360		administrators, teaching assistants, or other numbers for Atomic Assessments are for Dec 1-23. No use of Atomic Assessments is anticipated Dec 24-31. Any unforseen usage
1	Unique Students	3,487	3,533		1.884		will be updated in the January report.

## DoIT OPERATIONS: ACADEMIC TECHNOLOGY - LEARN@UW USAGE & SUPPORT

		Sep-20	Oct-20	Nov-20	Dec-20	Fall 2020	Jan-21
*Top Hat	Unique Students					2,516	
Top Hac	Incidents Resolved by Learn@UW Madison	0	0	0	0	0	0
	Incidents Resolved by Help Desk	3	0	0	0	3	1
	Active Courses					35	
	Unique Instructors					100	
	Incidents Resolved by Learn@UW Madison	54	128	140	127		44
AEFIS	Incidents Resolved by Help Desk	2	9	20	54		4
lamaulaali	Total exams	28,818	15,652	32,471	35,123	143,400	
lonorlock	Unique students	12,666	4,639	16,192	17,480	21,324	
	Total courses	196	39	219	250	345	
	Support tickets closed by Help Desk	36	16	6	5		
	Support tickets closed by Learn@UW-Madison	9	20	10	4		
	Exams per student	2	3	2	2	7	
LEAD	Total instructor views	74	164	79	16		14
	Support tickets closed by Help Desk					0	
	Instructor views of "Grades by Page Views" visualization	26	44	22	5		3
	Instructor views of "Page Views by Date and Hour" visualization	24	51	25	5		4
	Instructor views of "Page Views by Activity Type" visualization	13	33	19	4		2
	Instructor views of "Home Page" visualization	11	36	13	2		5
	Support tickets closed by Learn@UW-Madison					3	
Engage	% of students opted out					1	
eText	Course sections					178	
	Courses					84	
	Departments					35	
	Schools / Colleges					7	
	Student enrollment					18,780	
	Unique instructor combos					130	

#### Top Hat

Active Course: Course with students and instructors enrolled that the instructor has "published" or made available to students
Student: Students with Top Hat licenses enrolled in an "active course"

Instructor: Instructors with Top Hat licenses enrolled in an "active course"

<u>Assessment Evaluation Feedback & Intervention System (AEFIS):</u>
CE Response Rate: Percentage of all potential student respondents that submitted an AEFIS course evaluation

DESL Usage: Uses a direct evidence of student learning curriculum map at the program level and/or section level

#### Honorlock:

Total exams: total exams proctored via Honorlock. If a class of 30 students takes 1 exam, it's counted as 30 total exams.

Total courses: number of courses using Honolock to proctor exams. Exams per student: Mean number of exams taken per student among students who use Honolock for their course(s).

Engage eText: electronic textbook provided by a publisher that students have access to during their UW student experience Digital learning tool (DLT): publisher-bundled electronic tools (such as question sets) associated with a print or digital text Student enrollment: Sum of student enrollment in all courses using an eText and/or Digital Learning Tool (not unique students) Schools / Colleges: Number of schools and colleges that have a course using an eText and/or DLT

Departments: Number of departments that have a course using an eText and/or DLT

Courses: Number of courses using an eText and/or DLT

Course sections: Number of course sections using an eText and/or DLT (some courses have multiple sections using digital texts and tools)

Unique instructor combos: Number of unique instructors plus number of unique teams of instructors in team-taught courses using a digital text and/or tool

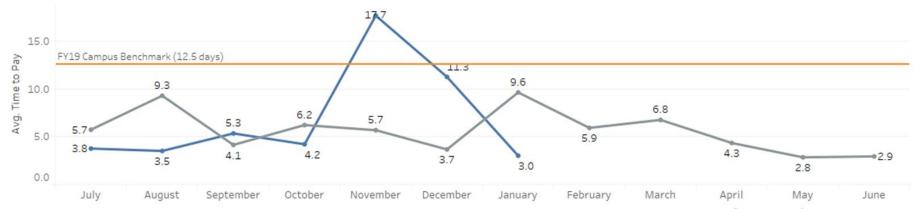
% of students opting out: Percentage of enrolled students that choose not to use a digital text or tool

<sup>\*</sup>As of winter semester 2020, TopHat has transitioned from monthly reporting to semester reporting.

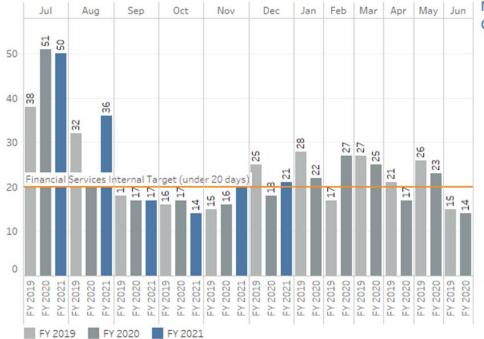


#### **DOIT OPERATIONS: FINANCIAL SERVICES**

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



#### Days from SFS Close to CBS Close



# Days from CBS Close to Management Report

Completion	FY 2019	FY 2020	FY 2021
July	15	2	5
August	7	2	3
September	9	4	3
October	7	4	0
November	0	3	0
December	37	17	0
January	2	4	
February	6	2	
March	2	6	
April	6	7	
May	7	5	
June	5	5	

#### If blank, data is currently unavailable.

## Days from SFS Close to Management Report

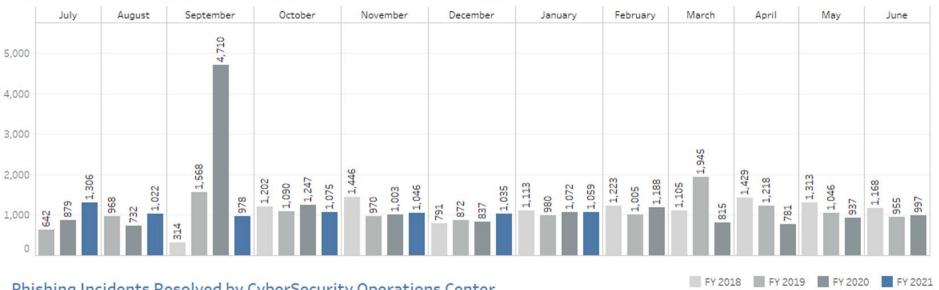
0 1			
Completion	FY 2019	FY 2020	FY 2021
July	53	53	55
August	39	22	39
September	27	21	20
October	23	21	14
November	15	19	20
December	62	35	23
January	30	26	
February	23	29	
March	29	31	
April	27	24	
May	33	28	
June	20	19	

This visualization was created by DolT in the Department of User Services.

DolT

#### 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.



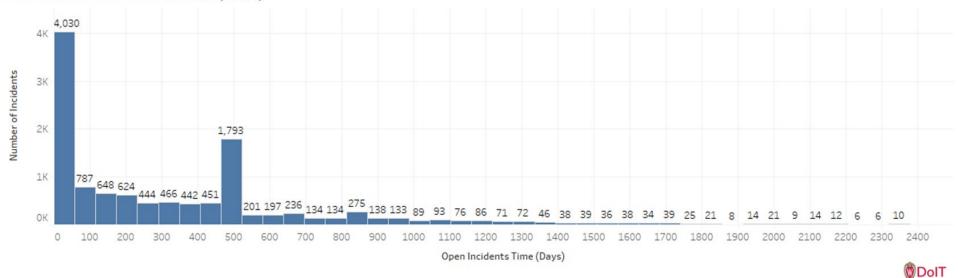
#### **DOIT OPERATIONS: INCIDENT AGING REPORT**

# Age of Open Incidents by Department

NOTE: Open incidents analyzed through 02/05/2021

	Less Than 2 Days Old	Open Tickets > 2 Days and < 2 Weeks Old	Greater Than 2 Weeks Old	Greater Than 1 Month Old
AIS	50	261	334	224
Cybersecurity	160	320	2,292	2,183
NS	19	180	640	565
SEO	99	119	311	258
US	196	1,863	3,795	3,416
Other	46	234	1,466	1,414
Total	570	2,977	8,838	8,060

# Total Open Incidents by Age (days)



# DoIT Operations Report Monthly Updates

Gartner benchmarks have been updated on multiple pages from 2020 values to 2021 values. Gartner has changed their methodology to reporting median values, rather than average values.



#### **DOIT OPERATIONS: TECHNICAL NOTES**

HD: Walk-in created incidents are considered Help Desk incidents begining 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.

HD-Ivy: All chats are first handled by the AI, Ivy. If the AI is unable to answer a question or a user requests to speak to an agent, then the chat will be handed off to an available agent. If an agent is not available an email incident is created from the chat and sent to the Help Desk email queue. The color indicates where the chat ended; either with an agent or with the AI.

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

DS-SLA Response Rate: Priority matrix obtained from WiscIT. In Priority 1 cases, an entire department is unable to perform duties and there is no workaround available. Priority 2 cases involve one or multiple users being unable to perform duties without a workaround, or an entire department only able to perform partial duties. Priority 3 cases include an entire department or any number of its users being able to perform duties with a workaround, or one or multiple users being able to only perform partial duties. Priority 4 cases are for deferred cases or monitoring / tracking.

SEO-Service Availability: New services were added in March & April 2019

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.

Days from SFS Close to Management Report is the amount of days from Campus Financial 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.



#### DoIT INCIDENT AGING REPORT - TECHNICAL NOTES

Incidents in the 'Greater Than 1 Month Old' column are also included in the 'Greater Than 2 Weeks Old' column.

### WiscIT Teams in Each Department

# AIS

Active Directory, ADI-IA Student Data Integration, ADI-Internal Apps, ADI-Web and Mobile Solutions, ECRT, ECS-Equipment Checkouts, IAM, Manifest Grouping Email, Manifest-Grouping, Manifest-Grouping Email, MiddleWare, Middleware Temp, Multi-Factor Authentication, MyUW, NetID-AcctAdmin, NetID-Login, Server Certificate Service, Shared Tools, Shared Web Hosting, UW Digital ID, UW KnowledgeBase, WiscWeb CMS, WiscWeb CMS Developers

#### Cybersecurity

Security, Security Incident, Security-Authorize, Security-BADGIRT, Security-CSOC Review, Security-Dept, Security-GRC, Security-HRS Attestation, Security-IT Access, Security-OCIS, Security-Tools

NS-App Admins, NS-Apps AANTS, NS-Campus, NS-Dept, NS-Field Services, NS-Field Services, NS-Firewall, NS-Layer 4, NS-OpEng, NS-OpEng-Monitoring, NS-PCI, NS-Video, NS-Voice, NS-Voice, NS-Voice-Cellular, NS-Voice-Cisco, NS-Voice-EUC, NS-Voice-Legacy, NS-WAN, SA-NS

#### SEO

NS

DRMT-All, DRMT-Data Tools, DRMT-Database, DRMT-DBA, DRMT-Enterprise Tools, DRMT-InfoAccess, DRMT-Tools, SA-SE, SA-Virtualization, SE, SE-AD, SE-AIX, SE-Audit, SE-BuckyBackup Support, SE-Critical Infrastructure, SE-DSA, SE-Linux, SE-OSX, SE-Solaris, SE-Storage Team, SE-Virtualization, SE-Windows, SEO-Dept, SEO-Firewall, SEO-Mainframe, SNCC-Network, SNCC-NTN-ND, SNCC-SysNet, SNCC-Sysops, SNCC-Systems Management

#### US

KB Site Helpdesk, Logistics, O365 Technical/Functional, PCS-Dept, PCS-o365 Service Delivery, PCS-Shared Hosting, SA-RaDS, 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 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 Email, US-Help Desk Email Test, US-Help Desk HDQA, US-Help Desk Internal, US-Help Desk Operations, US-Help Desk SMPH Support, US-Help Desk Tools, US-Help Desk UW C/EX Support, US-Help Desks UW CEOEL Support, US-Infolabs Kiosks, US-Metrics and Data, US-PM, US-PM Dell, US-PM Dell, US-PM Mathat&StatsPKGS, US-PM Software, US-Repair Billing, US-Repair Hardware, US-Repair Pickup (S33ECM), US-Repair Pickup (Comp Sci), US-Repair Pickup (HSLC), US-Repair Printer, US-Repair Software, US-Service Desk (HSLC), US-Repair Printer, US-Repair Software, US-Service Desk

#### Other

All remaining DoIT WiscIT teams that are not included in the above lists.

