

WaTech Dashboard Q4 – Fiscal Year 2021

April-June 2021



Washington's Consolidated Technology Services Agency

Q4 FY21

WaTech's Dashboard contains data that mirror agency priorities:

- Service delivery
- Customer care
- Finances

WaTech reviews the Dashboard quarterly and uses the data to drive decisions impacting the direction of the agency. The Dashboard is a living document - measures are refined and new metrics are added as agency priorities are revised.

Dashboard objectives

- 1** WaTech's authorizing statute requires the WaTech Director to set goals, measures, and performance targets for the agency. It requires this information to be included in a dashboard that must be updated, posted on our public website, and sent to the Governor on a quarterly cycle. The dashboard must include information about service delivery, cost, operational efficiencies, and overall customer satisfaction.
- 2** Dashboards are part of a mature quality management, accountability, and performance system designed to improve customer satisfaction, employee engagement, operational effectiveness, and cost recoverability.

Service Delivery

- Transport and connectivity
- Incidents and requests
- Change requests
- Security

Service Delivery

Transport and connectivity by vendor

Q4/FY21

Transport and Connectivity refers to the data managed within state government across the Wide Area Network (WAN) infrastructure managed by WaTech. This graph shows operational uptime from the top six vendors that provide transport and connectivity network services. The service objective is 99.9% availability.

WaTech manages 12 transport and connectivity vendors that cover territories across the state. Only the top six vendors are represented here. WaTech manages the State Metropolitan Optical Network (SMON) that covers Olympia, Tumwater and Lacey.

SMON consistently outperforms vendors managing other parts of the overall state network.

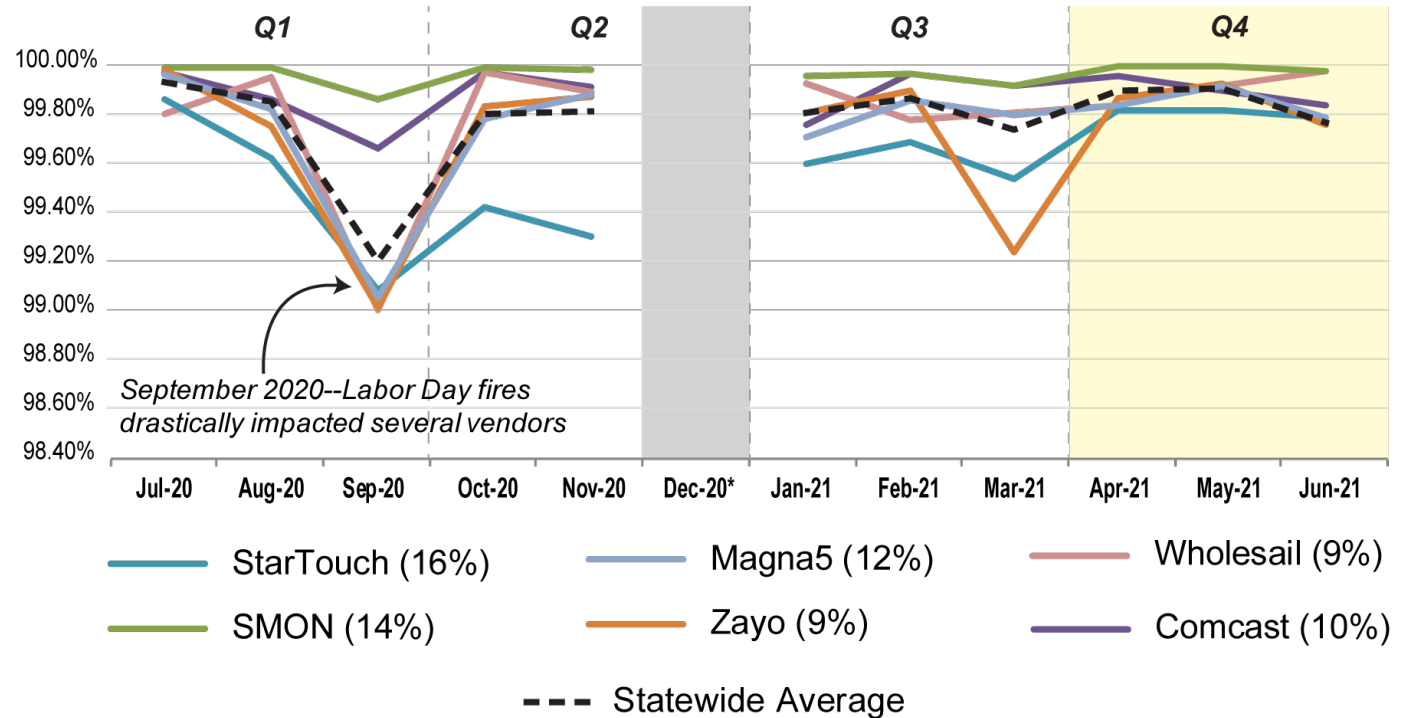
Note: Due to last year's hack of SolarWinds' Orion Platform network management software, WaTech turned off its SolarWinds software during the incident resolution. As a result, no data was collected for a significant portion of December.

Vendors = "Total Transport" coverage:

- StarTouch = 16%
- SMON = 14%
- Comcast = 10%
- Zayo = 9%
- Magna5 = 12%
- Wholesail (Noel) = 9%

Transport and connectivity—average availability by month

Includes maintenance events



**Due to the SolarWinds hack, WaTech turned off SolarWinds during the incident resolution. As a result, no data was collected for a significant portion of December.*

Wholesail was previously known as Noel. Zayo was previously referred to as ELI and Integra. The data (for this set of charts) is collected using SolarWinds.

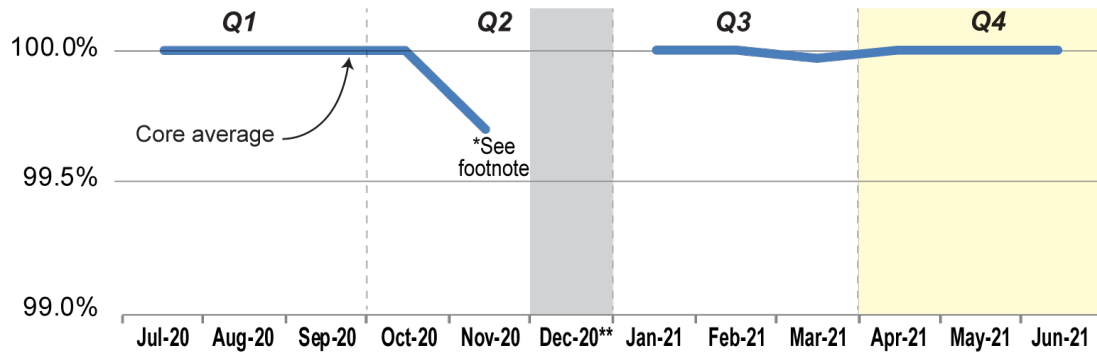
Service Delivery

Transport and connectivity

Q4/FY21

SDC Network Core—average availability by month

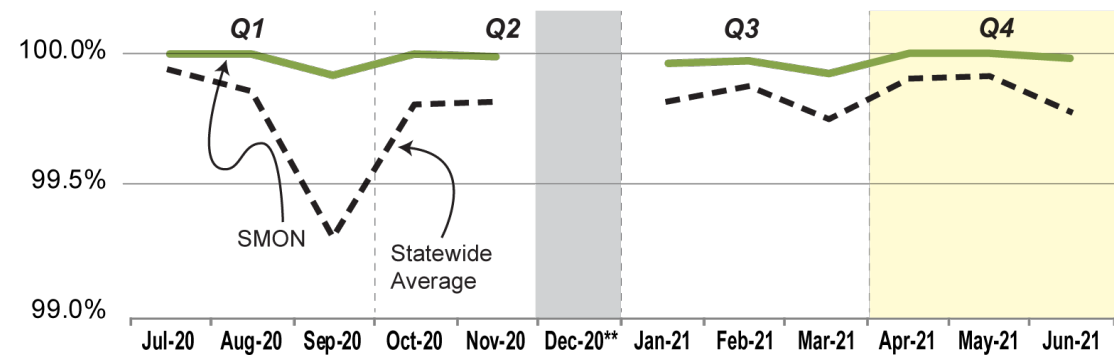
Includes maintenance events



*The dip in Core availability metrics in November was a result of some reconfiguration that happened in the data center that caused the monitoring systems to be unable to monitor some core devices for approximately 2 hours on 11/18/20. No customer services were impacted. **Due to the SolarWinds hack, WaTech turned off SolarWinds during the incident resolution. As a result, no data was collected for a significant portion of December.

Transport and connectivity—average availability by month Statewide average vs SMON

Includes maintenance events



SLA target = 99%

The Statewide Average is across all 12 vendor networks including the WaTech managed State Metropolitan Optical Network (SMON). WaTech's SMON consistently outperforms vendors managing other parts of the complete state network.

*Dip in September 2020: Labor Day fires drastically impacted several vendors.

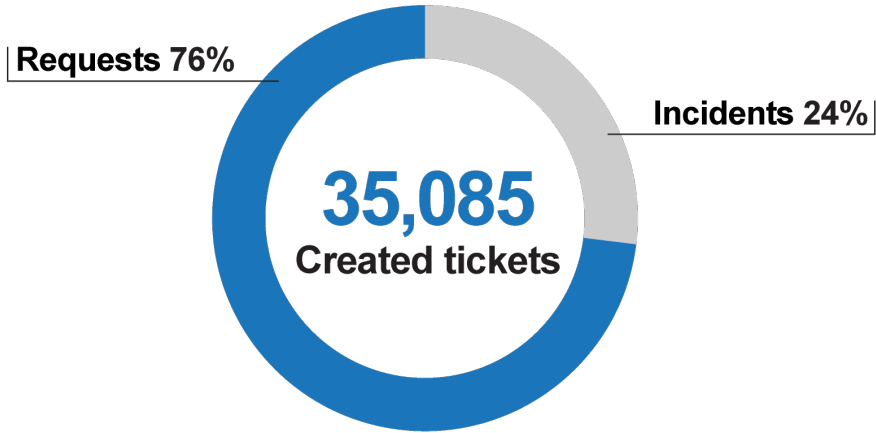
**Due to the SolarWinds hack, WaTech turned off SolarWinds during the incident resolution. As a result, no data was collected for a significant portion of December.

These charts reflect network connectivity for the WaTech-managed State Metropolitan Optical Network (SMON) that covers Olympia, Tumwater and Lacey, and the State Data Center.

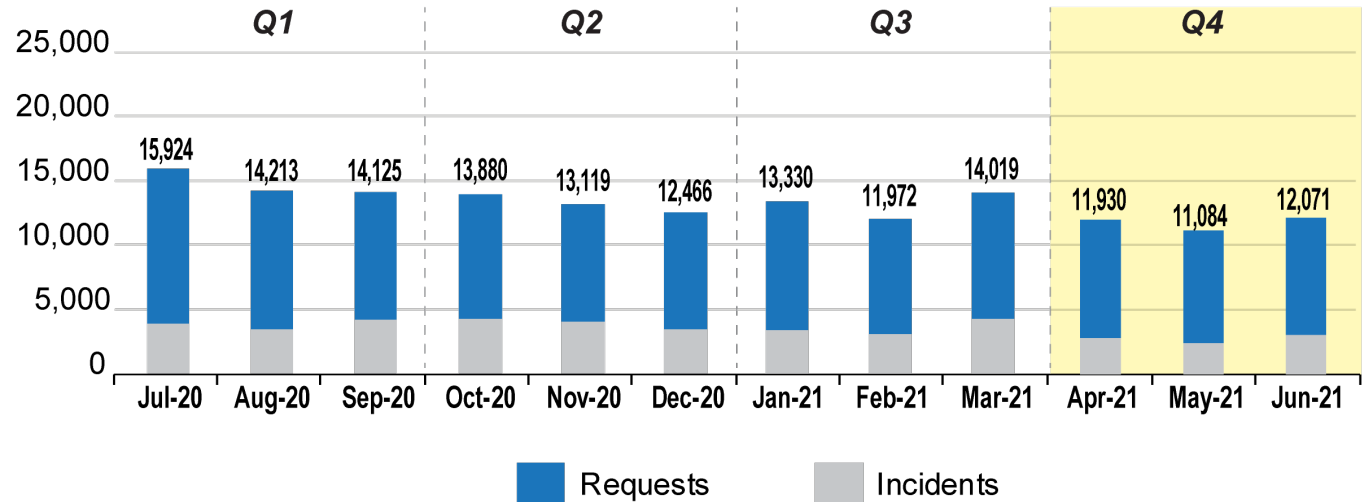
Service Delivery - Incidents and requests

Tickets created

Q4



Tickets Created* – Trend



*Includes tickets for both incidents and requests

A ticket is created whenever an incident or issue is reported to the WaTech Support Center by phone or email. These charts reflect the number of tickets **created** during the reporting period.

Incident – An unplanned interruption to or reduction in the quality of a WaTech service.

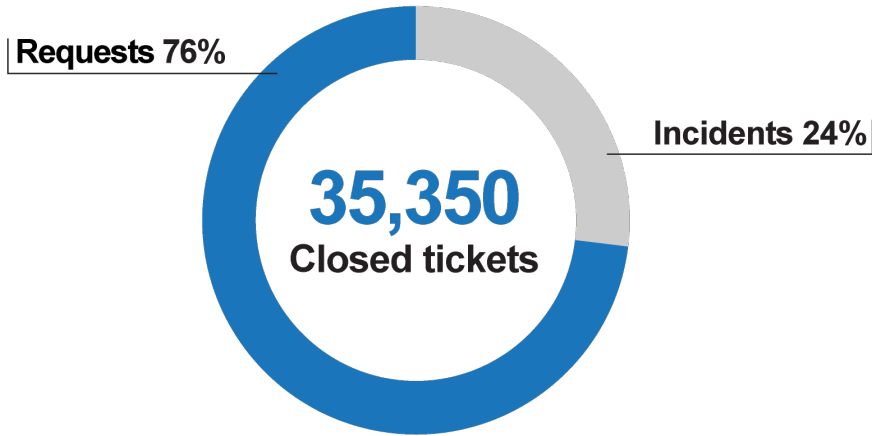
Request – A request from a user/customer for information, advice, standard change to, or for access to a WaTech service.

Service Delivery - Incidents and requests

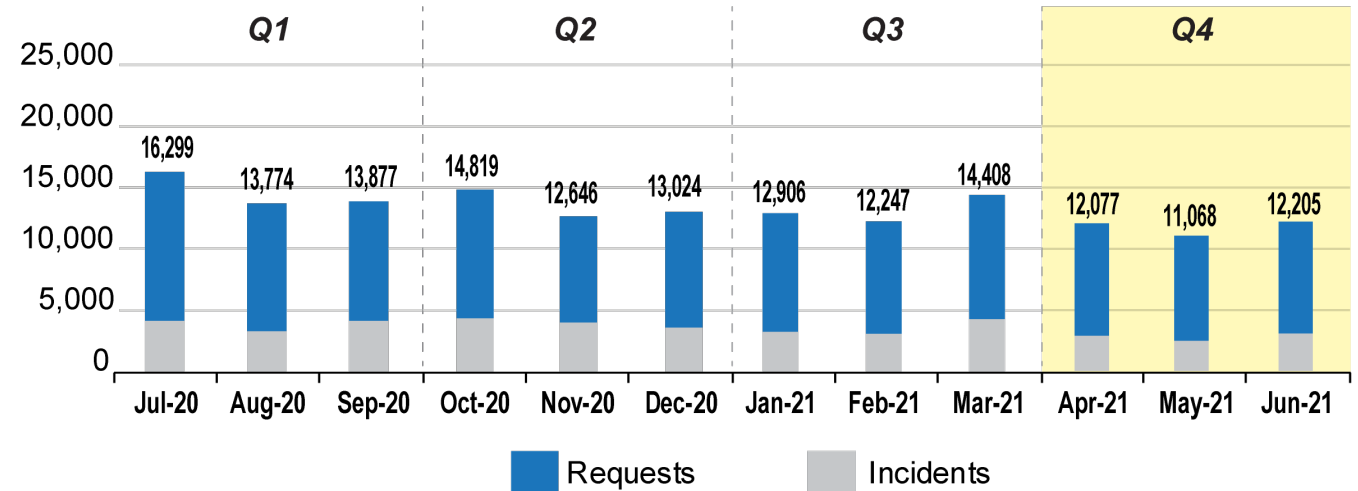
Tickets closed

Q4/FY21

Q4



Tickets Closed* – Trend



*Includes tickets for both incidents and requests

A ticket is created whenever an incident or issue is reported to the WaTech Support Center by phone or email. These charts reflect the number of tickets closed during the reporting period.

Incident – An unplanned interruption to or reduction in the quality of a WaTech service.

Request – A request from a user/customer for information, advice, standard change to, or for access to a WaTech service.

Service Delivery

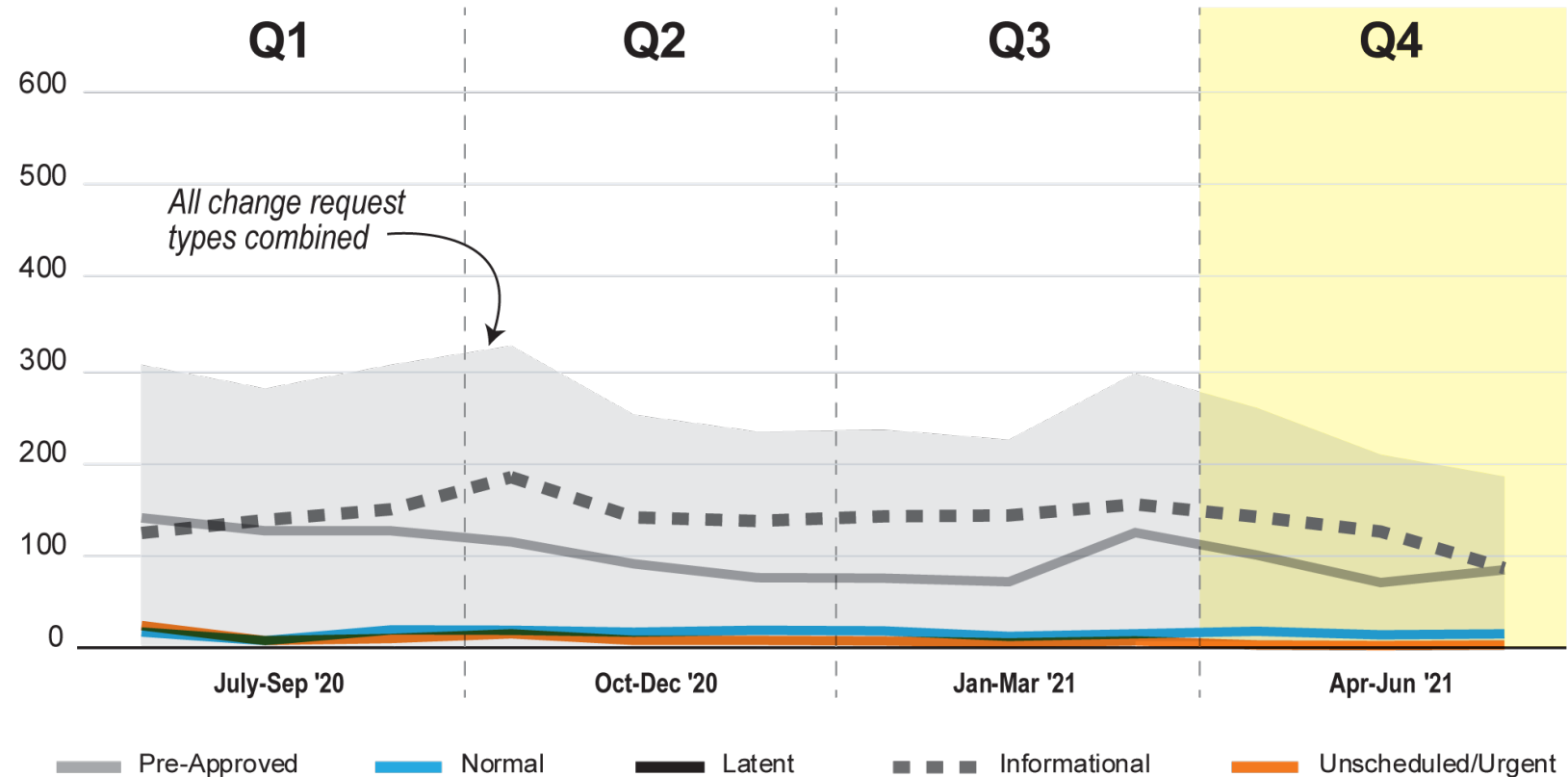
Change requests

Q4/FY21

Change Requests are processes that make adjustments or improvements to an existing system. These can include installing a new IT system, making upgrades to existing systems, changing configurations, monthly security patching, and more. WaTech adheres to a change tracking process in order to protect the production environment and to consistently deliver our services when our customers expect them to be available.

The daily change report is posted on our website (support.watech.wa.gov) for all our customers and partner agencies to see. If a change is expected to have an impact in any way, a Service Notification explaining the change will be published. The change report links to these posted notifications to provide more detail about a particular change.

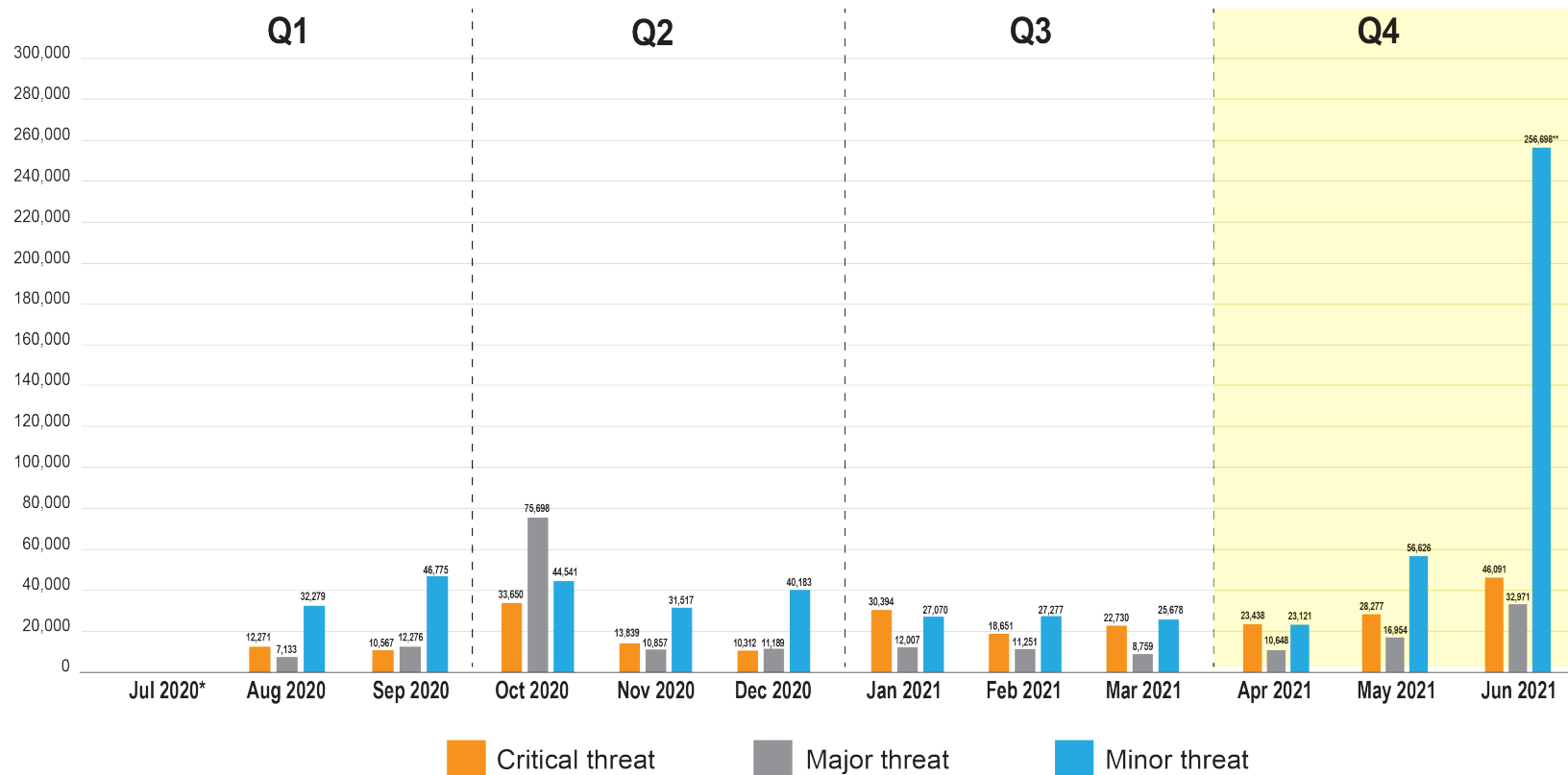
Change requests, by type



Service Delivery Security

Q4/FY21

Cyber threats detected by OCS Intrusion Prevention System, by type



Critical: Attacks that are detected and would be used to create Denial of Service (DoS), machine access, network access, account compromise, etc.

Major: Abnormal activity detected.

Minor: Abnormal activity, perceived as malicious, immediate threat is not likely.

The spike in *Minor threat* activity in June 2021 suggests there was an increase in a specific type of hacking attempt that matched a signature in OCS's vulnerability scanning tool; this type of hacking activity is common.

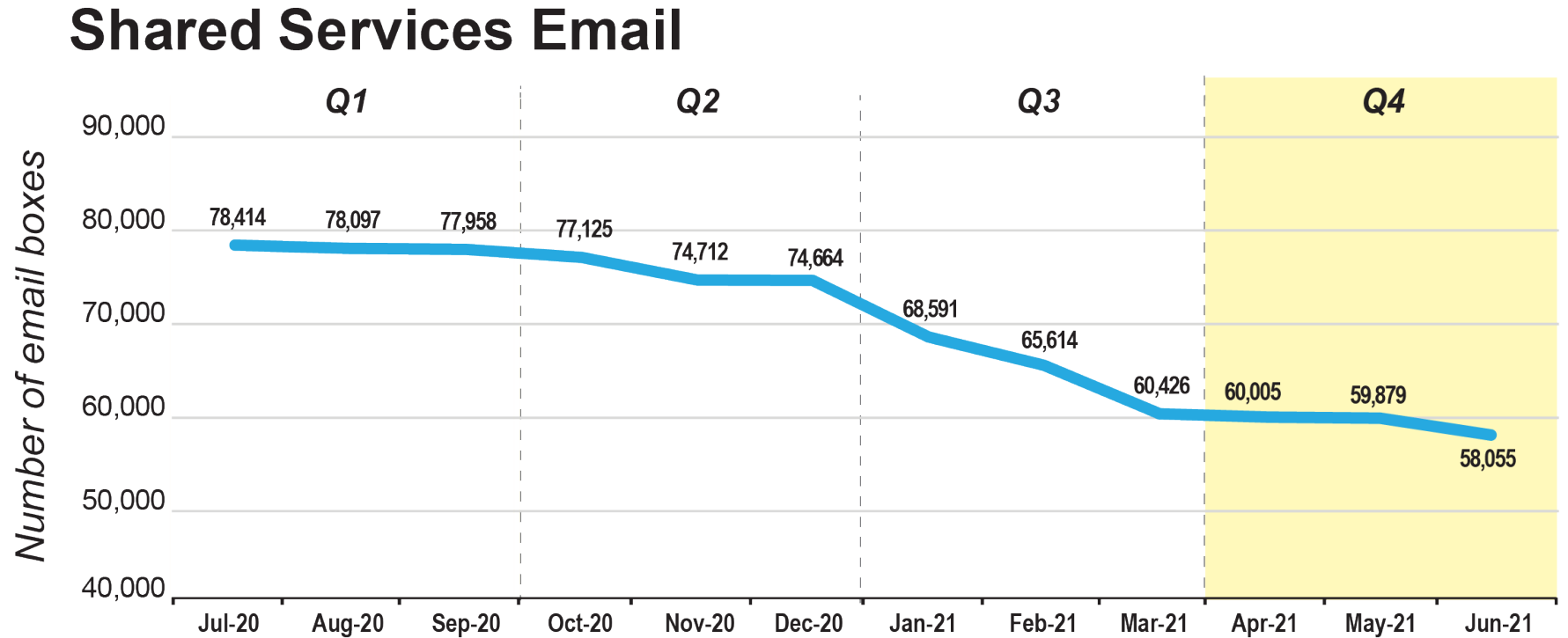
*Data not available for July 2020 due to system outage. **The increase in Minor threat activity seen in June suggests there was an increase in a particular type of hacking attempt that matched a signature in OCS's vulnerability scanning tool. It is common for this type of activity to occur.

Service Delivery

Communications services

Q4/FY21

Shared Services Email is a solution that includes email delivery, security and records retention. The number of mailboxes WaTech provides to customer agencies started declining in Q2, with the trend continuing in Q4 as more customers migrate to Exchange Online within the Enterprise Shared Tenant.

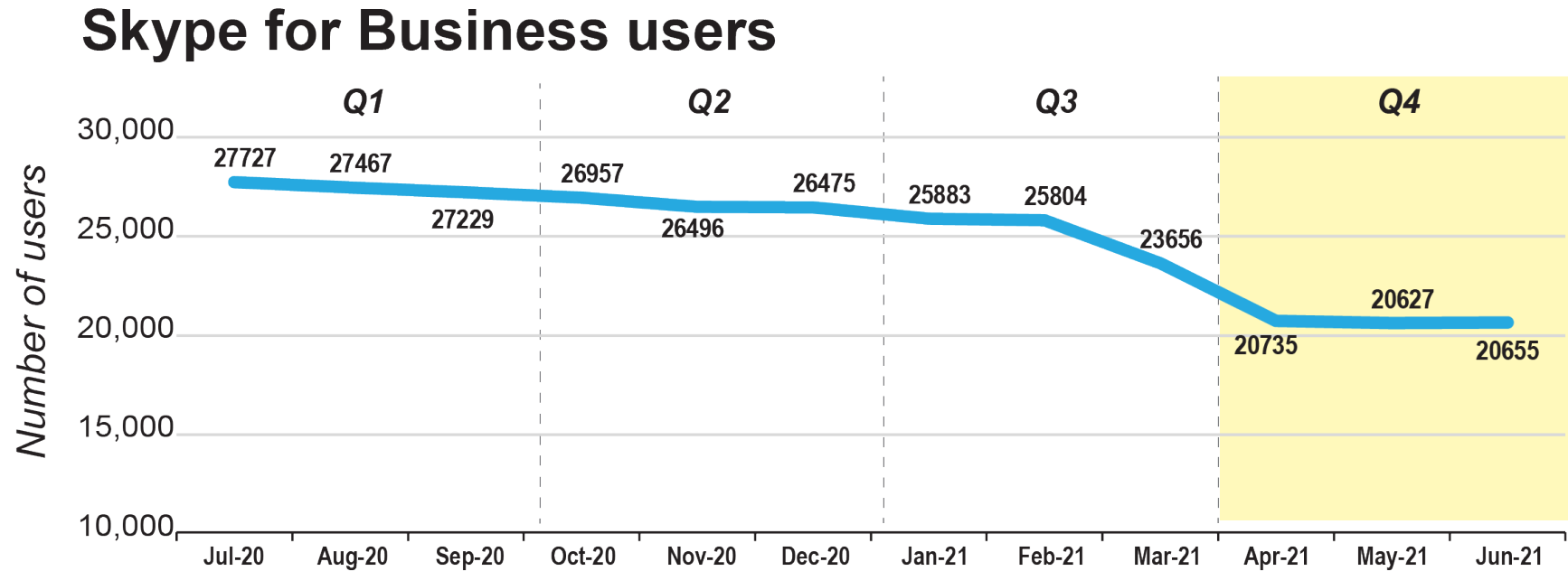


Service Delivery

Communications services

Q4/FY21

Skype for Business* connects people on their PC or mobile devices via instant messaging, voice and video. The number of users for this service declined slightly from Q3, before leveling off in Q4. This decline is due to agencies migrating to Teams. Skype for Business will be decommissioned June 30, 2022.



*The transition from Skype for Business to Microsoft Teams is underway. See slides 17 and 18 for Q4 Teams data.

Service Delivery

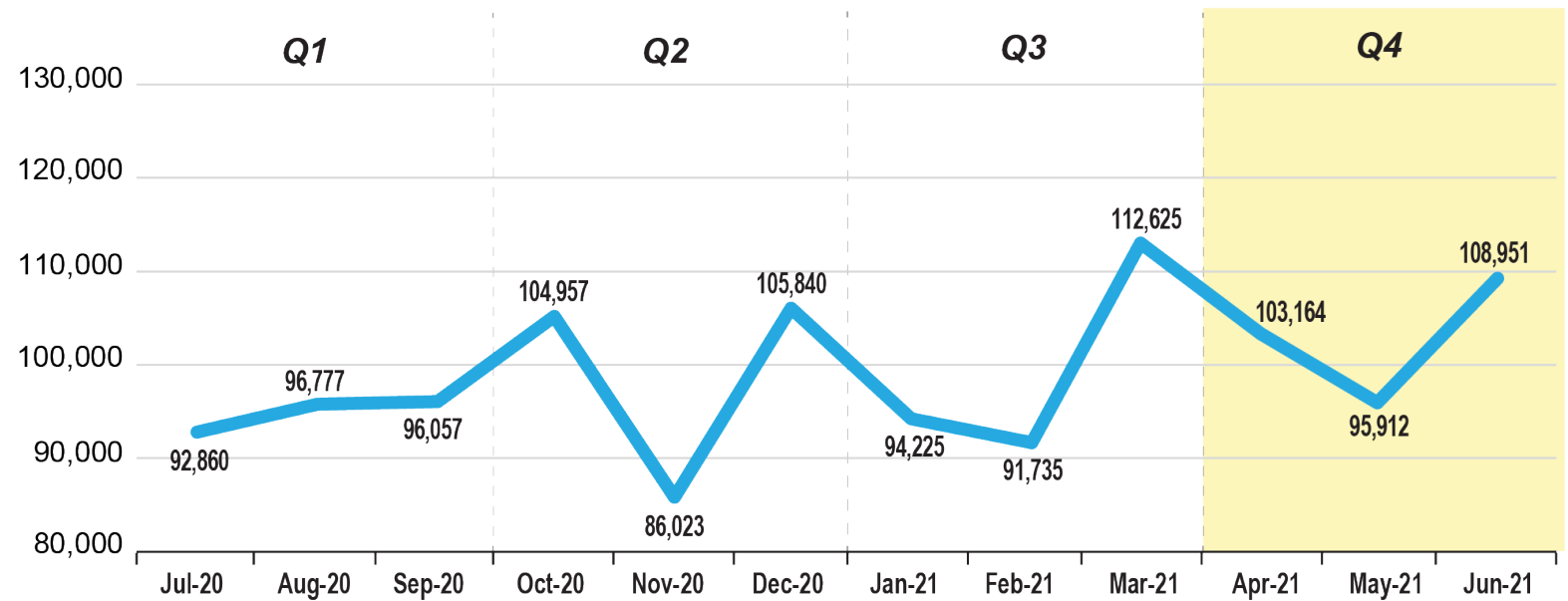
Mainframe services

Q4/FY21

This chart represents the number of batch jobs that are performed in the given month by the IBM mainframe managed by Ensono.

Since migrating to Ensono's environment, WaTech has reduced some of the workload by reducing the number of LPARs (logical partitioning) on Ensono's mainframe. Additionally, the size of the Ensono mainframe is smaller than the previous WaTech mainframe by approximately 42 MSUs (Million Service Units). These changes may affect the data in this dashboard.

Total customer monthly jobs



Service Delivery

Mainframe services

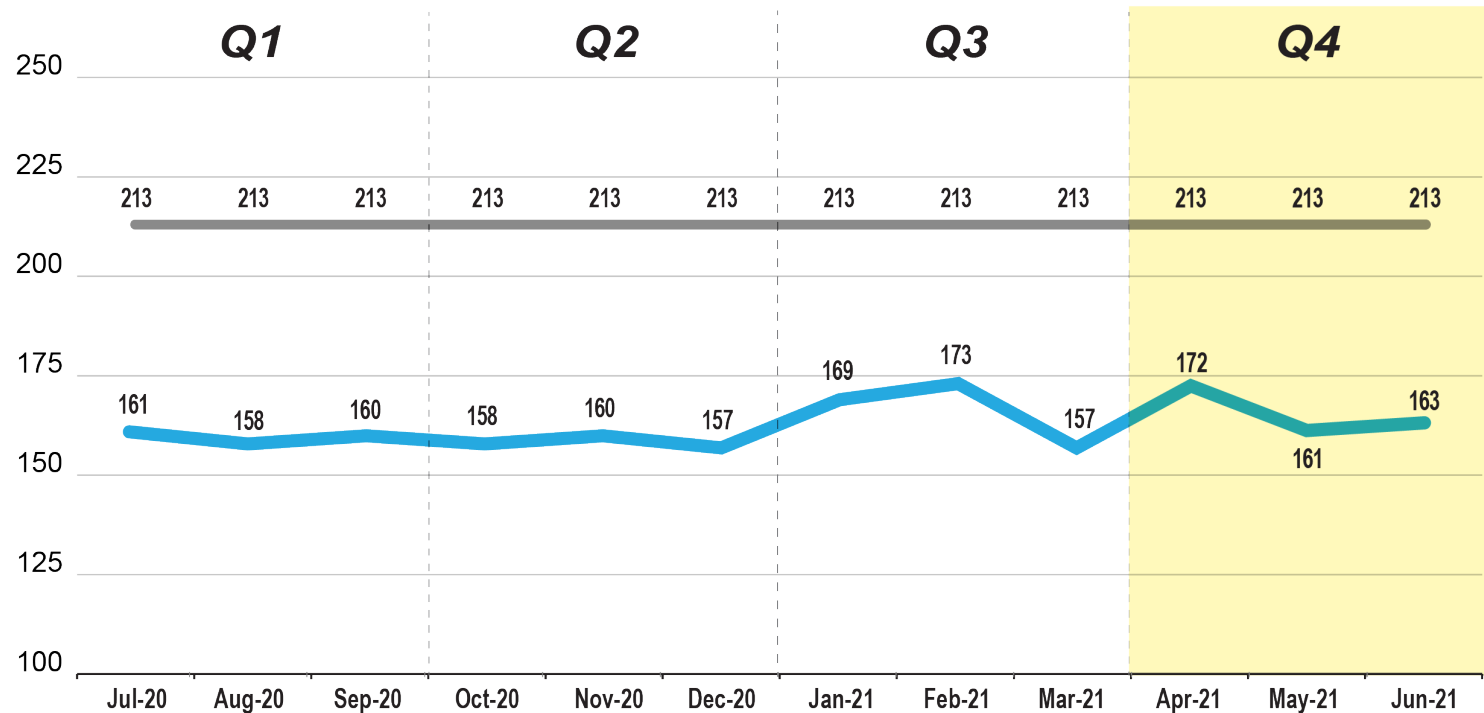
Q4/FY21

This chart compares overall capacity of the Mainframe to actual use.

In Q4, total usage averaged a little more than 165 million service units (MSUs), or 78% of the total capacity (IBM MSU CAP) of the Mainframe across all processing systems that are using it.

Since migrating to Ensono's environment, WaTech has reduced some of the workload by reducing the number of LPARs (logical partitioning) on Ensono's mainframe. Additionally, the size of the Ensono mainframe is smaller than the previous WaTech mainframe by approximately 42 MSUs. These changes may affect the data in this dashboard.

All Mainframe system MSU* usage



*A million service units (MSU) is a measurement of the amount of processing work a computer can perform in one hour.

— IBM MSU CAP — All systems total

Service Delivery

Mainframe services

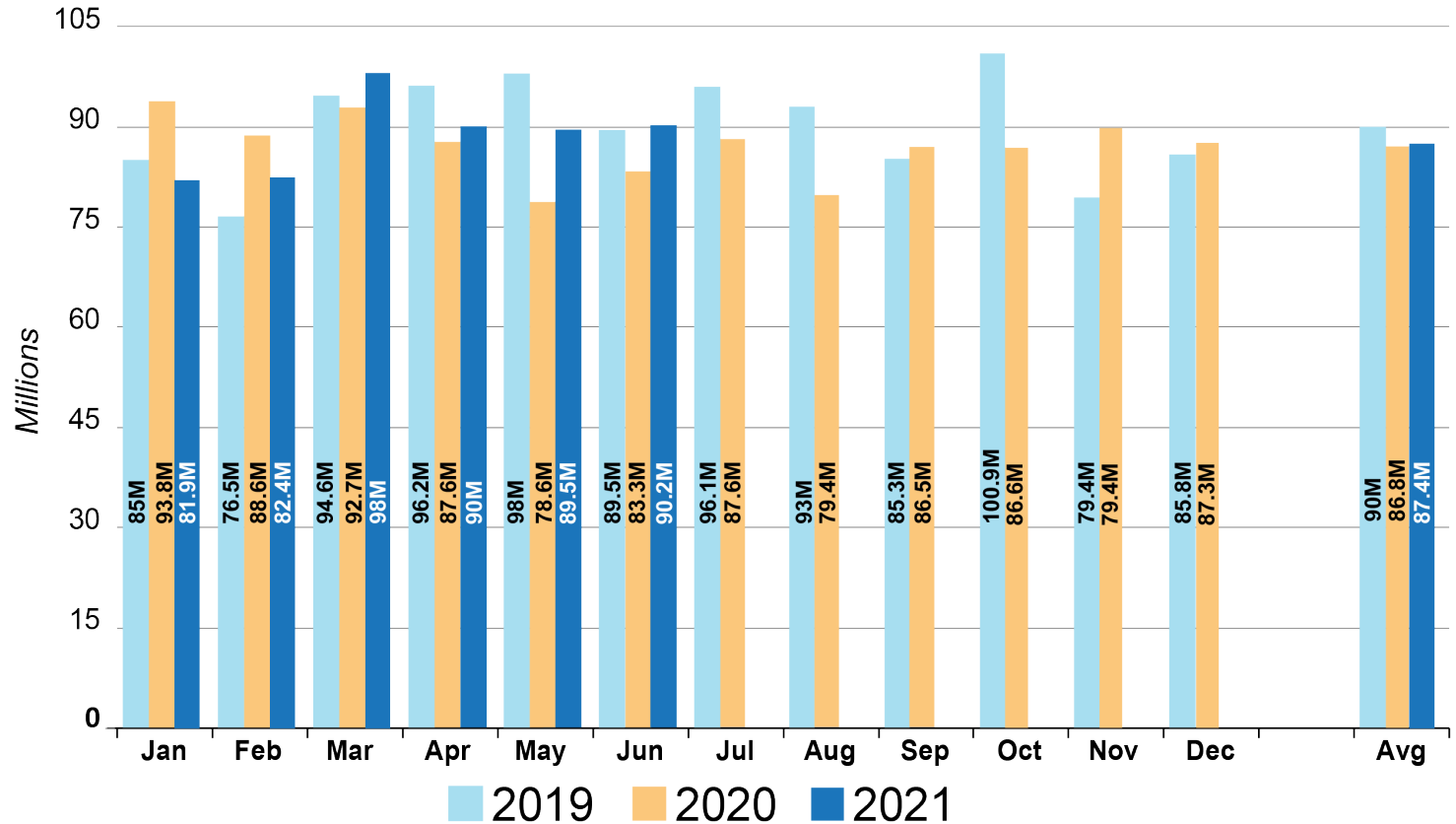
Q4/FY21

The Customer Information Control System (CICS) is software that enables transactions between the IBM mainframe to the many applications in use by customer agencies. This chart indicates the number of transactions that are processed each month through CICS, a key indicator of continued state agency reliance on the mainframe.

CICS transactions for Q4 totaled 269.7 million, a modest increase over Q3.

Since migrating to Ensono's environment, WaTech has reduced some of the workload by reducing the number of LPARs (logical partitioning) on Ensono's mainframe. Additionally, the size of the Ensono mainframe is smaller than the previous WaTech mainframe by approximately 42 MSUs (Million Service Units). These changes may affect the data in this dashboard.

Monthly Customer Information Control System (CICS) transaction totals, 2019-2021



Service Delivery

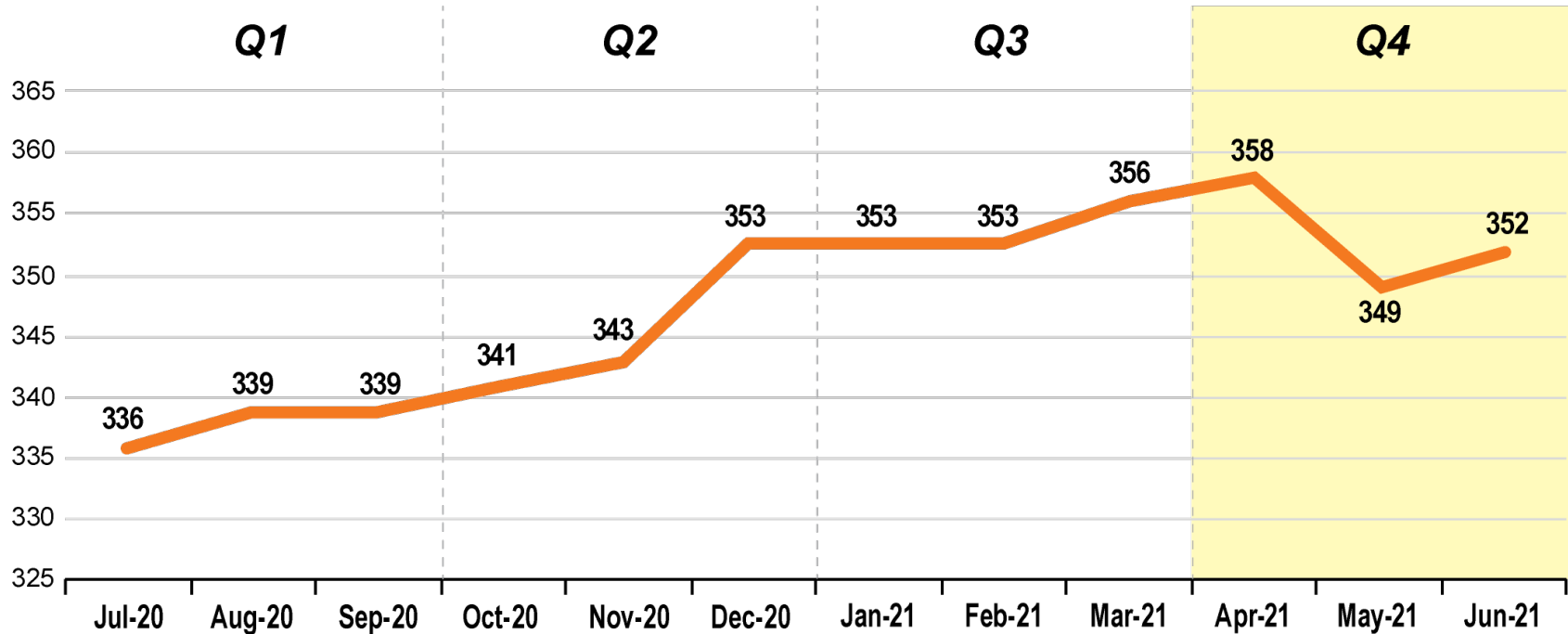
Colocation services

Q4/FY21

The number of enclosures at the State Data Center in Olympia and the Quincy Data Center in Q4 shows a slight decrease compared to the previous three quarters.

The decrease in both revenue and enclosure counts in May Q4 is due to a production billing adjustment with a customer.

Colocation enclosure count*



*Figures represent the most accurate data available at the time of publication. As more accurate data become available, the figures will be updated in future reports.

Service Delivery

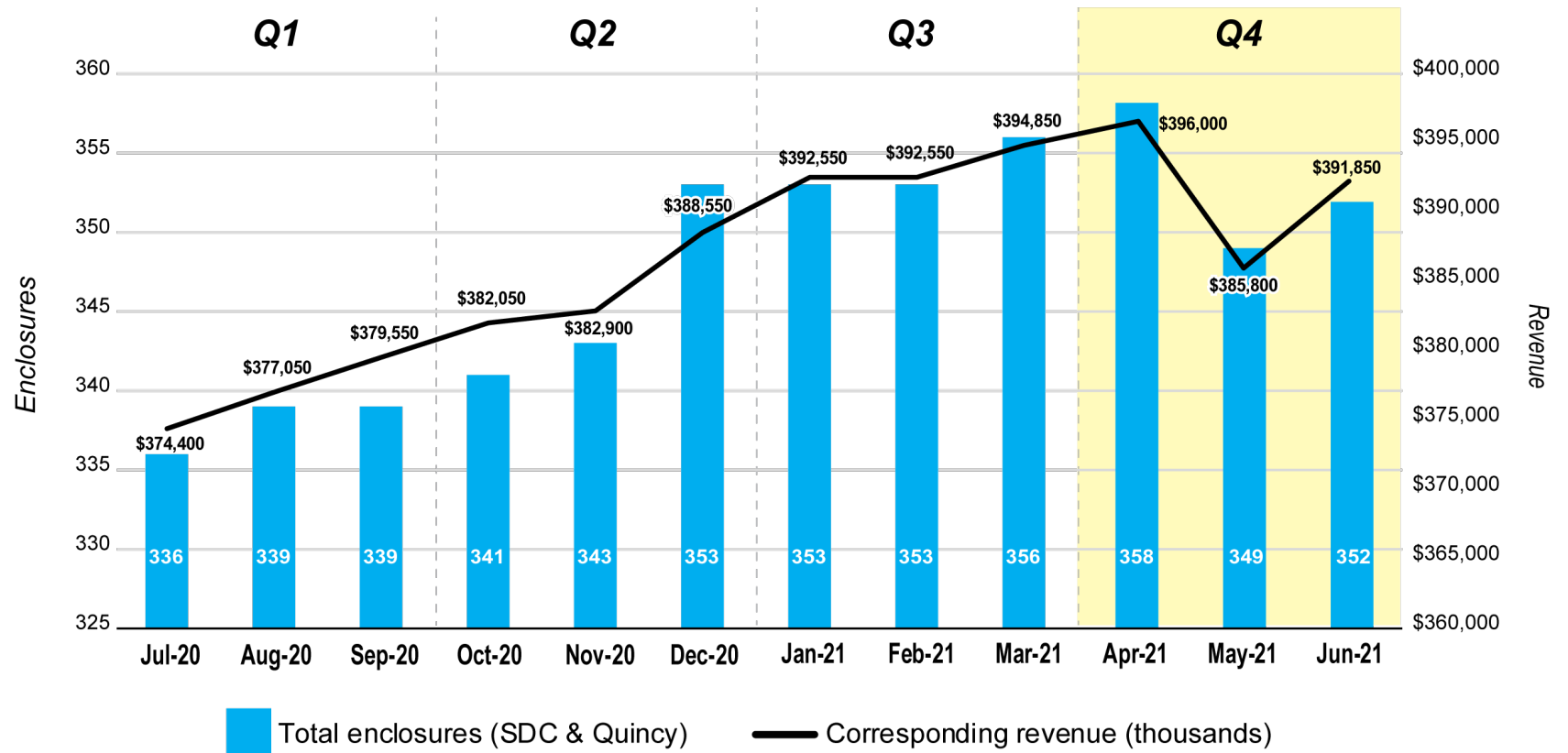
Colocation services

Q4/FY21

Growth in enclosure and revenue count has been consistent over the previous three quarters despite an ever-increasing amount of state data moving to the cloud.

The decrease in both revenue and enclosure counts in May Q4 is due to a production billing adjustment with a customer.

Colocation enclosure count* and revenue*



*Figures represent the most accurate data available at the time of publication. As more accurate data become available, the figures will be updated in future reports.

Service Delivery

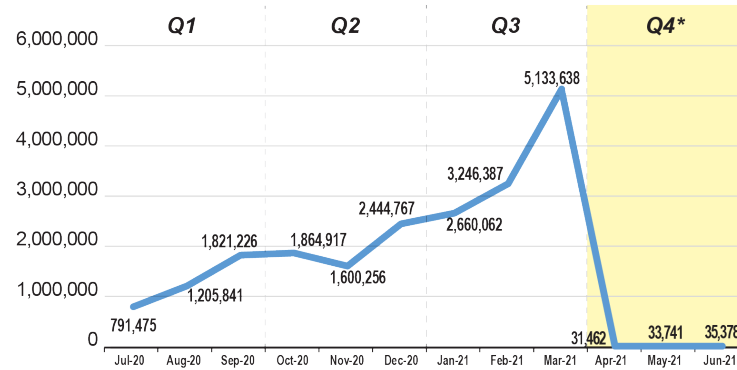
Shared Tenant services

Q4/FY21

More state agencies are joining the Enterprise Shared Tenant and using Microsoft Teams for communication and collaboration. These charts show usage of Teams group chat, calls, private chat messaging and meetings.

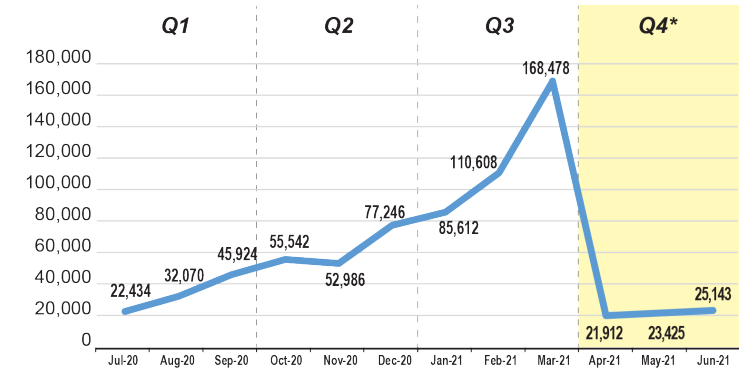
Starting in Q4, the data being collected was changed from *Usage* to *User Count*. This change resulted in significantly lower-than-normal figures compared to previous quarters.

Team Chat messages



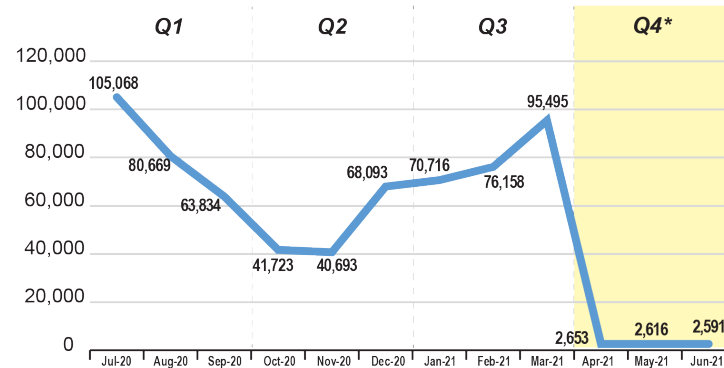
*Starting Q4 FY21, reporting was changed from tracking *Usage* data to *User Count* data, which may result in higher- or lower-than-normal figures compared to previous quarters.

Teams Calls



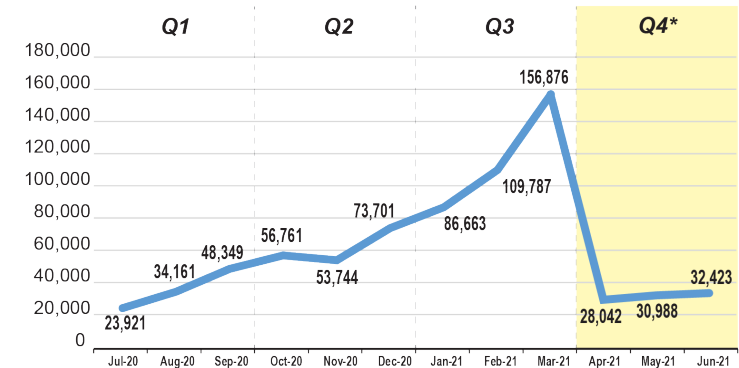
*Starting Q4 FY21, reporting was changed from tracking *Usage* data to *User Count* data, which may result in higher- or lower-than-normal figures compared to previous quarters.

Teams Channel (aka, Private Chat) Messages



*Starting Q4 FY21, reporting was changed from tracking *Usage* data to *User Count* data, which may result in higher- or lower-than-normal figures compared to previous quarters.

Teams Meetings



*Starting Q4 FY21, reporting was changed from tracking *Usage* data to *User Count* data, which may result in higher- or lower-than-normal figures compared to previous quarters.

Service Delivery

Shared Tenant services (cont.)

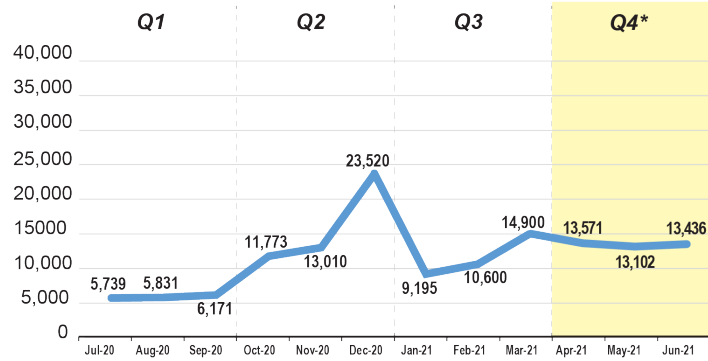
Q4/FY21

The OneDrive Active Users chart shows steady growth during Q3 after a surge in Q2.

The SharePoint Online Sites chart represents the number of Microsoft Teams sites managed by agencies within the tenant. Q3 activity leveled off after a significant increase in Q2.

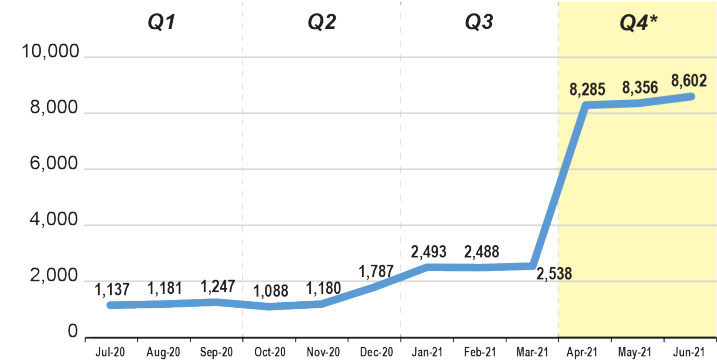
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OneDrive Active Users



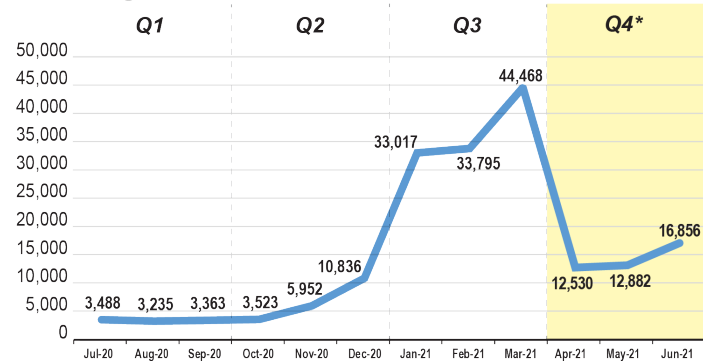
*Starting Q4 FY21, reporting was changed from tracking *Usage* data to *User Count* data, which may result in higher- or lower-than-normal figures compared to previous quarters.

SharePoint Online Sites



*Starting Q4 FY21, reporting was changed from tracking *Usage* data to *User Count* data, which may result in higher- or lower-than-normal figures compared to previous quarters.

Exchange Online



*Starting Q4 FY21, reporting was changed from tracking *Usage* data to *User Count* data, which may result in higher- or lower-than-normal figures compared to previous quarters.

Customer care

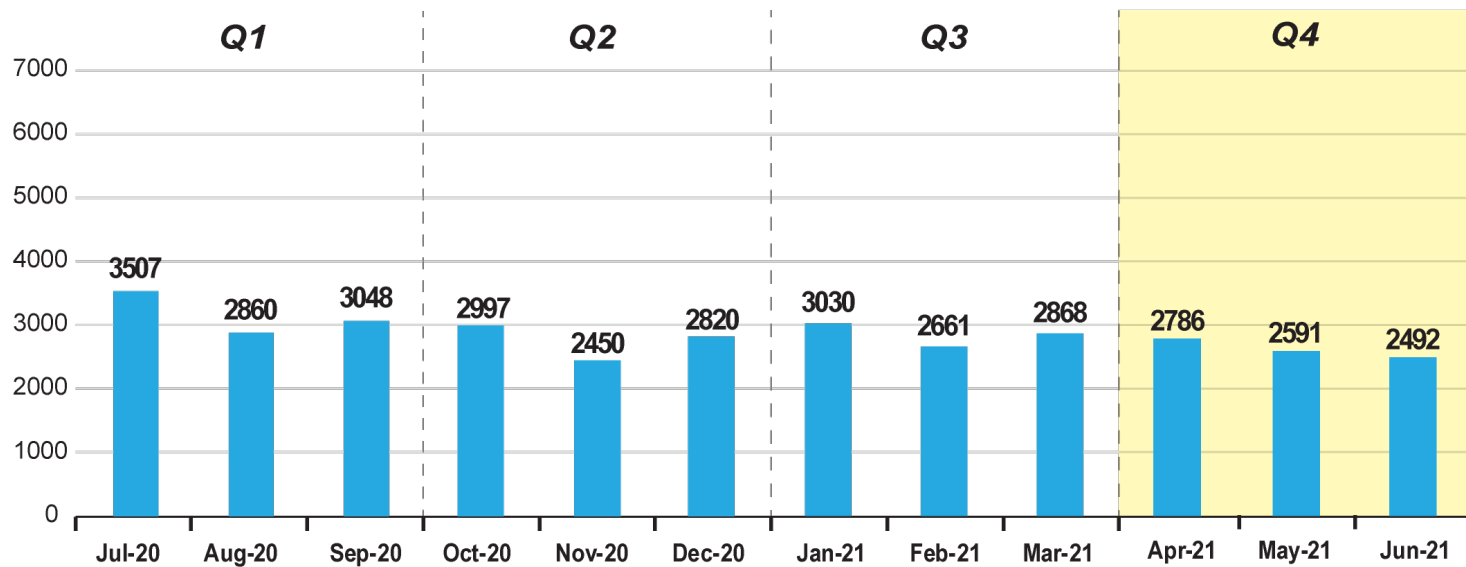
- Support Center
- Customer satisfaction

Customer Care

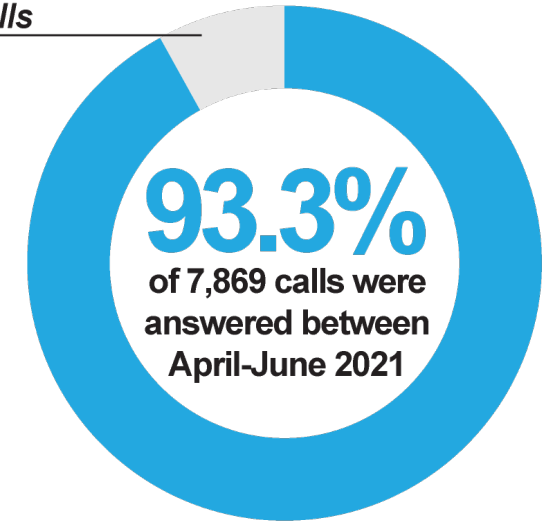
Support Center calls

Q4/FY21

Number of calls received



6.7% abandoned calls



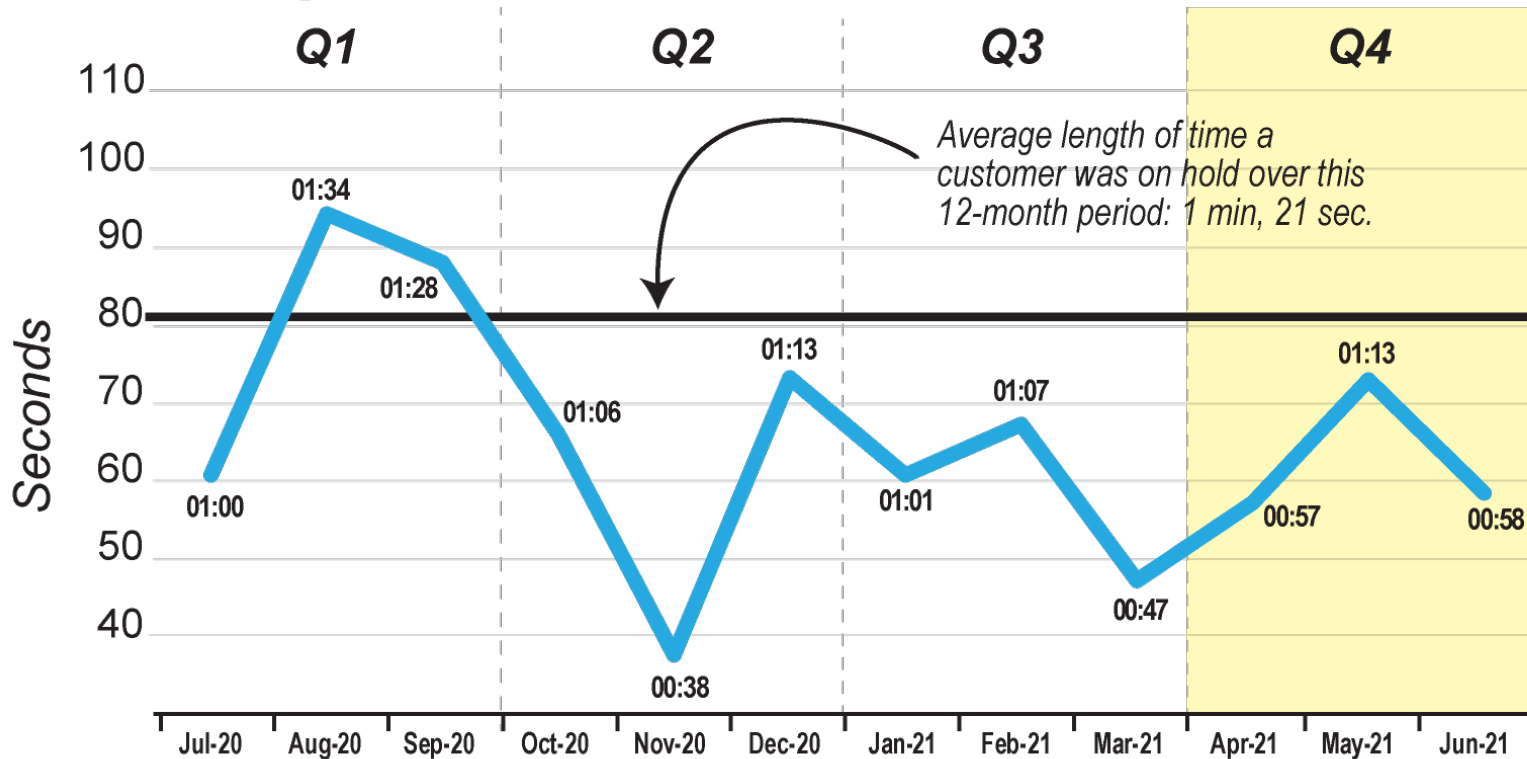
In Q4, the total number of calls received was 7,869, an 8.1% decrease from the previous quarter.

Customer Care

Support Center calls

Q4/FY21

Average hold time



WaTech strives to minimize the amount of on-hold time for customers calling into the Support Center.

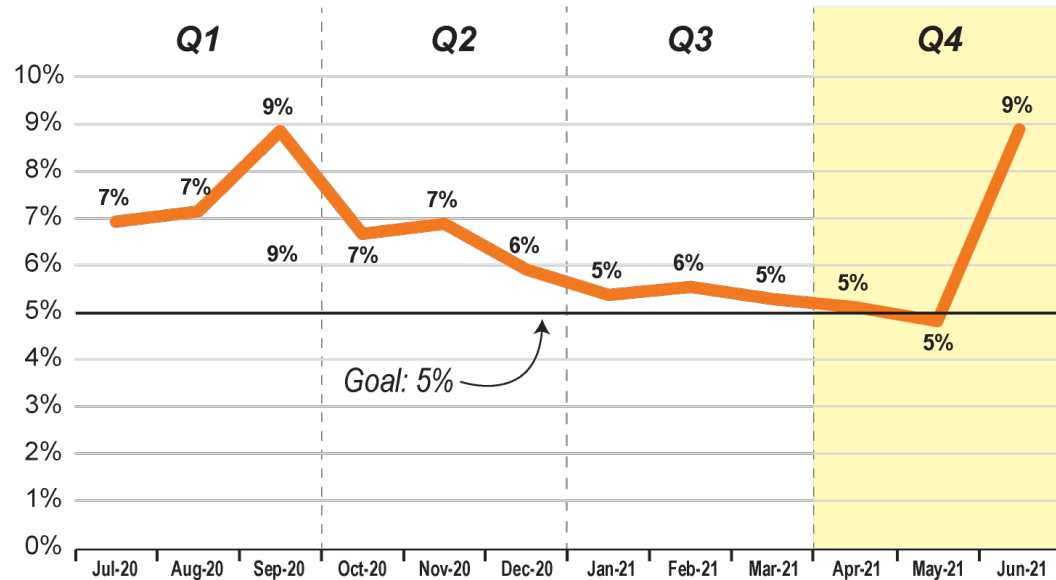
During Q4, on-hold time averaged about 63 seconds, an 7.4% increase over the previous quarter.

Customer Care

Support Center calls

Q4/FY21

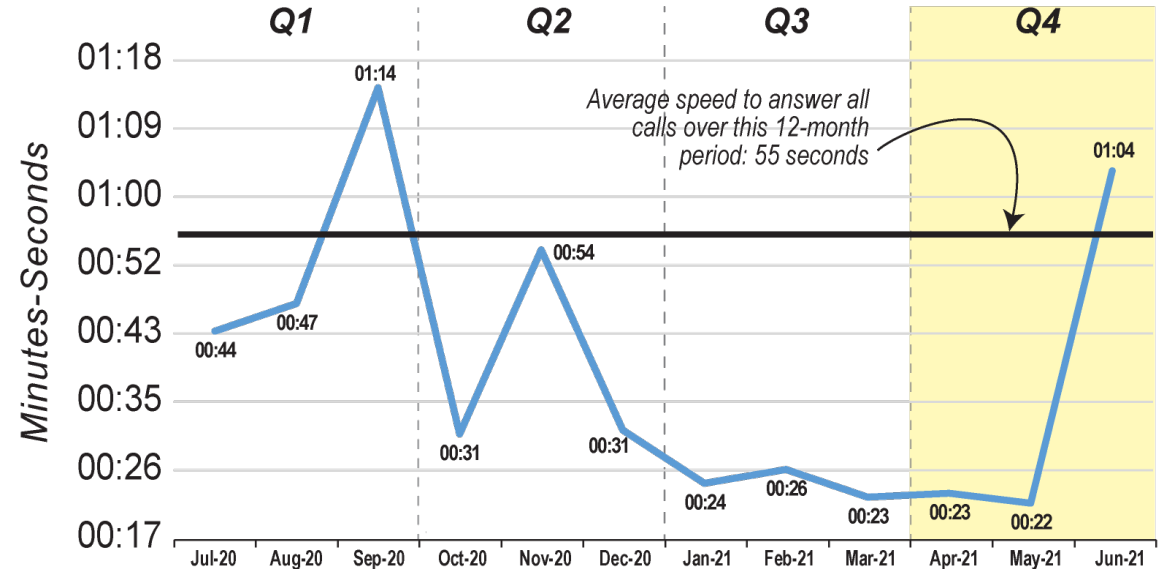
Abandoned call rate



Percentages plotted on on chart may not match exactly, due to rounding of the data.

WaTech’s goal is to maintain a 5% abandoned call rate. WaTech averaged an abandoned call rate of 6.3% in Q4. The increase in June is largely due to an unexpected staff departure. Resources have been realigned and additional scheduling changes were made to address both abandoned calls and speed to answer.

Average speed to answer all calls



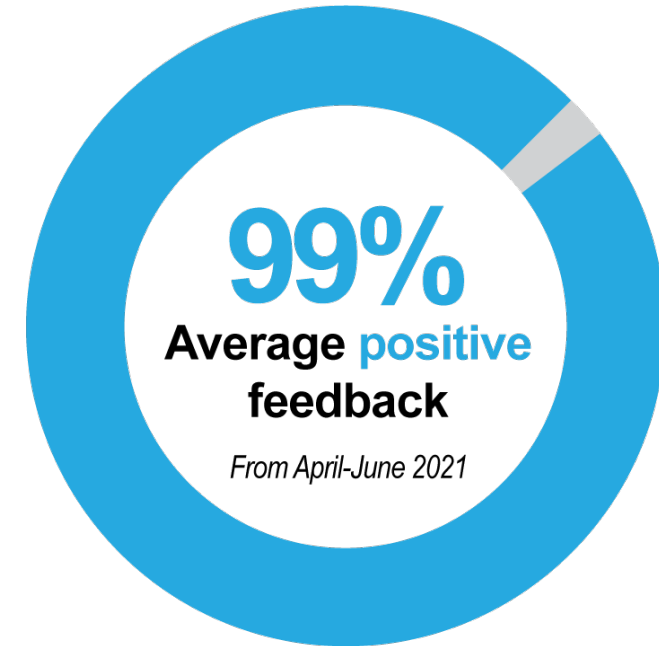
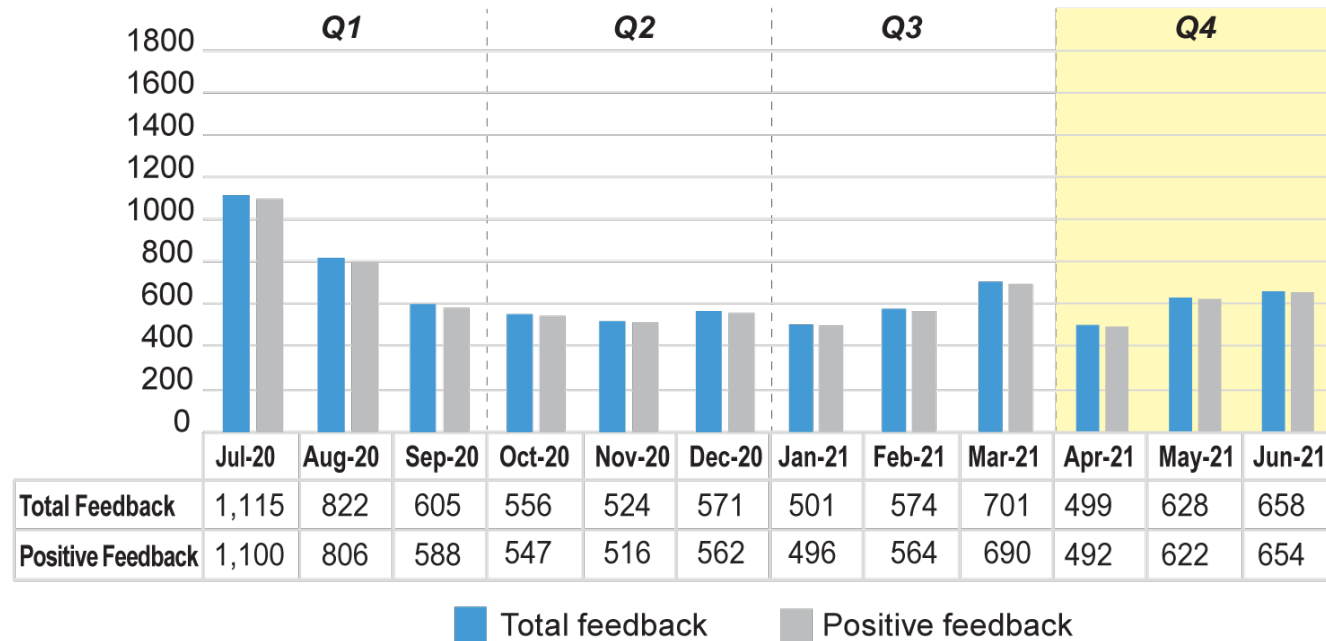
On average, WaTech’s speed to answer calls in Q4 was 36.6 seconds. The increase in June is largely due to an unexpected staff departure. Resources have been realigned and additional scheduling changes were made to address both abandoned calls and speed to answer.

Customer Care

End of transaction survey results

Q4/FY21

Total feedback versus positive feedback, submitted with closed tickets



WaTech's Enterprise Solutions Platform (ESP) is used for entering, tracking and closing trouble response and service request tickets. Whenever tickets are closed the recipient of the service receives an email that asks for feedback on the service.

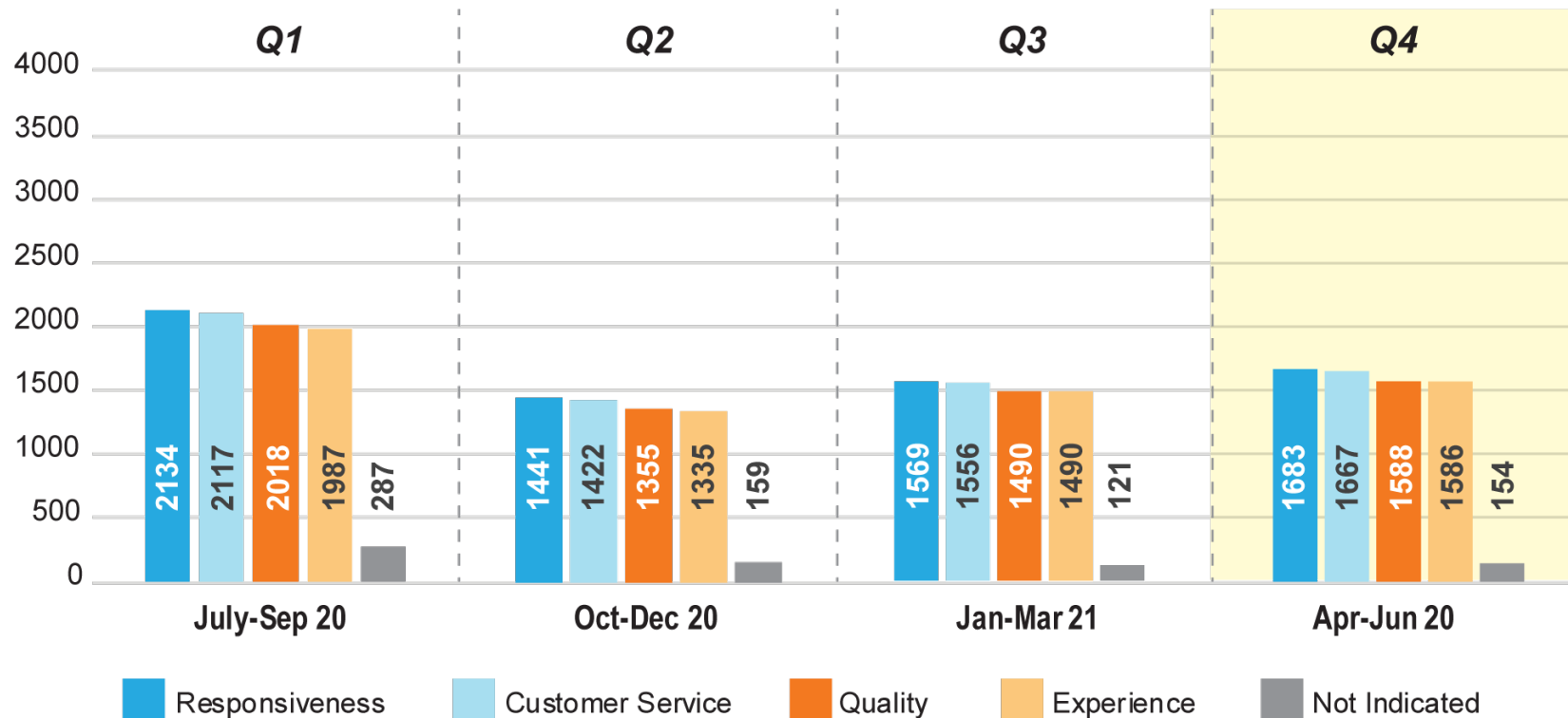
If the service was performed well, the recipient is asked to indicate what was done correctly. If there were issues with the service performed, the feedback is routed to a manager for follow-up.

Customer Care

End of transaction survey results

Q4/FY21

Feedback by category



End of Transaction surveys are sent by email to the customer after an incident is resolved. The survey asks the customer to rate the service that was performed for **responsiveness** (time from initial report to the time of contact), **customer service** (based on interactions with the person performing the service), **quality** (reflecting the overall solution or way the service was performed) and **experience** (based on treatment, respect, problem resolution or other feelings the customer may have on the way the service was performed). Customers are also invited to complete a comment box to clarify or add additional thoughts on the service.

Finances

- Revenue and expenses
- Income/loss

Finances

Revenue and expenses

Q4/FY21

FY21 Agency overview

Q4 FY21*		YTD FY2021**		Projected FY2021	
Revenue	\$38,701,304	Revenue	\$146,662,895	Revenue	\$145,662,895
Expenses	- 36,477,711	Expenses	- \$151,039,009	Expenses	- \$151,039,009
Net Operating Income/Loss	\$ 2,223,593	Net Operating Income/Loss	= (\$5,376,114)	Net Operating Income/Loss	= (\$5,376,114)

*April to June Actuals.

**July to June Actuals.

In FY 2021, WaTech strengthened the Enterprise Architecture Program as well as the Cybersecurity Program resulting in approximately an additional \$6.3 million in spending.

Source: AFRS

Finances

Services income/loss

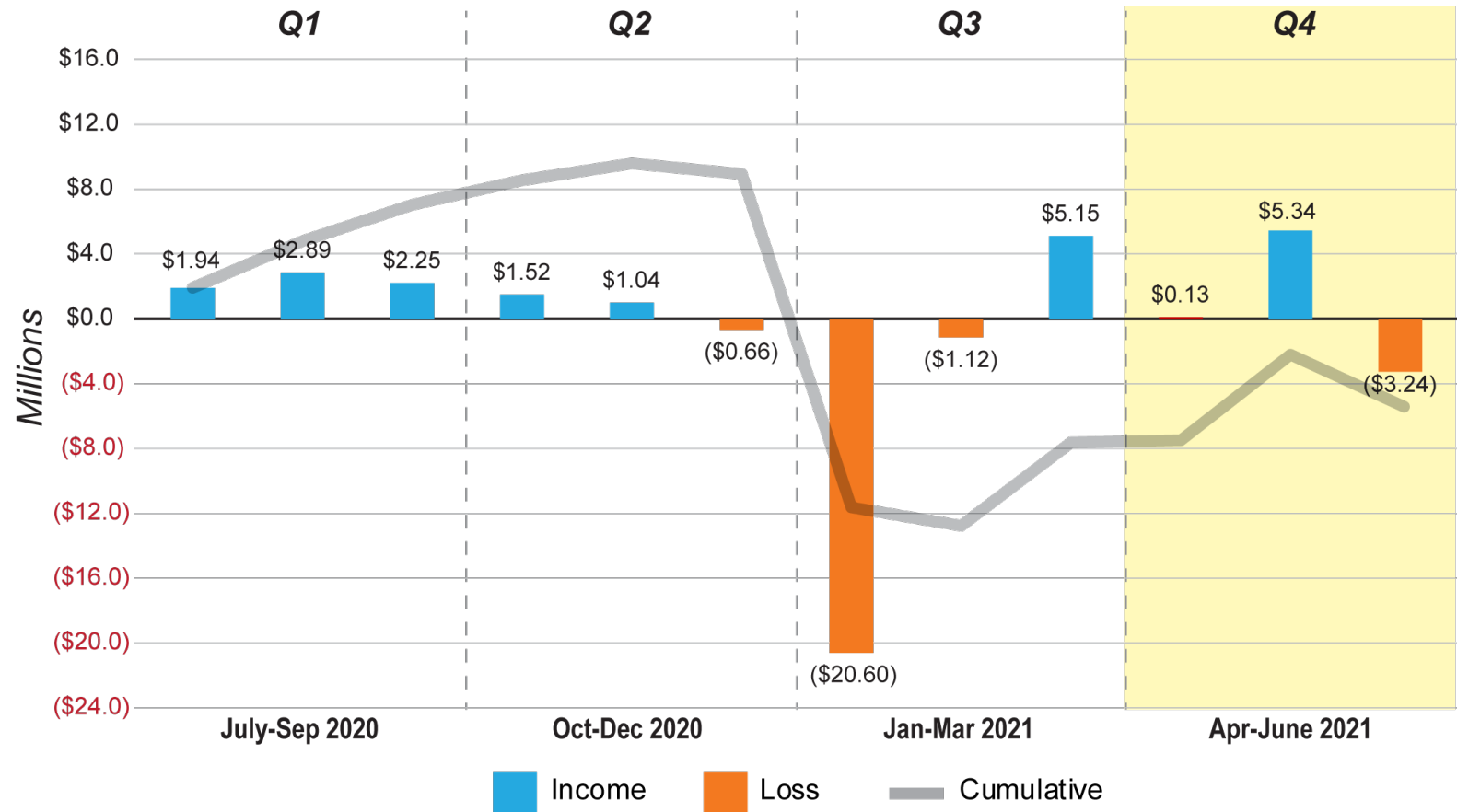
Q4/FY21

This chart shows the monthly net operating income/loss by month for all programs.

WaTech's spending changes each month depending on the cycle of software licenses, hardware maintenance, and equipment renewals. WaTech spends more in October, May and June.

The drop in January 2021 is due to the purchasing and standardization of the M365 licenses for state agencies.

Net operating income/loss by month (all programs)



Finances

Services income/loss by program area

Q4/FY21

Program area	Year-to-date (July 2020 to June 2021)
Program Management Services	\$46,835
Networking Services	\$1,740,201
Computing Services	(\$8,285,290)
Data Center facilities	\$282,731
Office of Cybersecurity	\$2,331,516
Applications Development	(\$836,441)
Usability, Web Hosting	\$310,390
Office of Chief Information Officer	(\$966,056)
Total:	(\$5,376,114)

Program areas

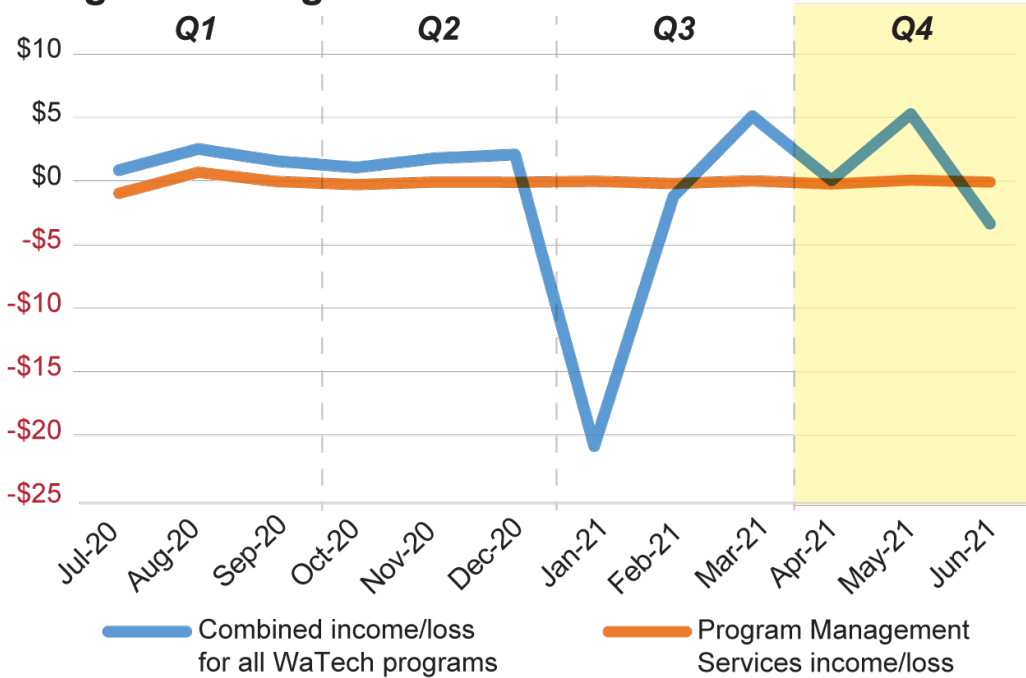
- **Program Management Services:** WaTech's overhead and Project Management Services.
- **Network Services:** Telephony Services, Data Network Services, Office VPN and Cloud Highway.
- **Computing Services:** Secure File Transfer, Private Cloud, Server Hosting, Storage, EAD/Identity Management, Email, MDM, Skype, Wireless, Office 365, SharePoint and Mainframe.
- **Data Center facilities:** Olympia and Quincy Data Centers.
- **Office of Cybersecurity:** Domain Naming Service, Logging and Monitoring Service, Vulnerability Assessment Service, SAW, and Remote Access Services.
- **Applications Development:** Access Washington, Desktop Support, Small Agency IT Support and JINDEX.
- **Usability, Web Hosting:** Usability Services and Web Platform Services.
- **Office of Chief Information Officer:** OCIO and Location Base Services (GIS Portal and WAMAS).

Finances

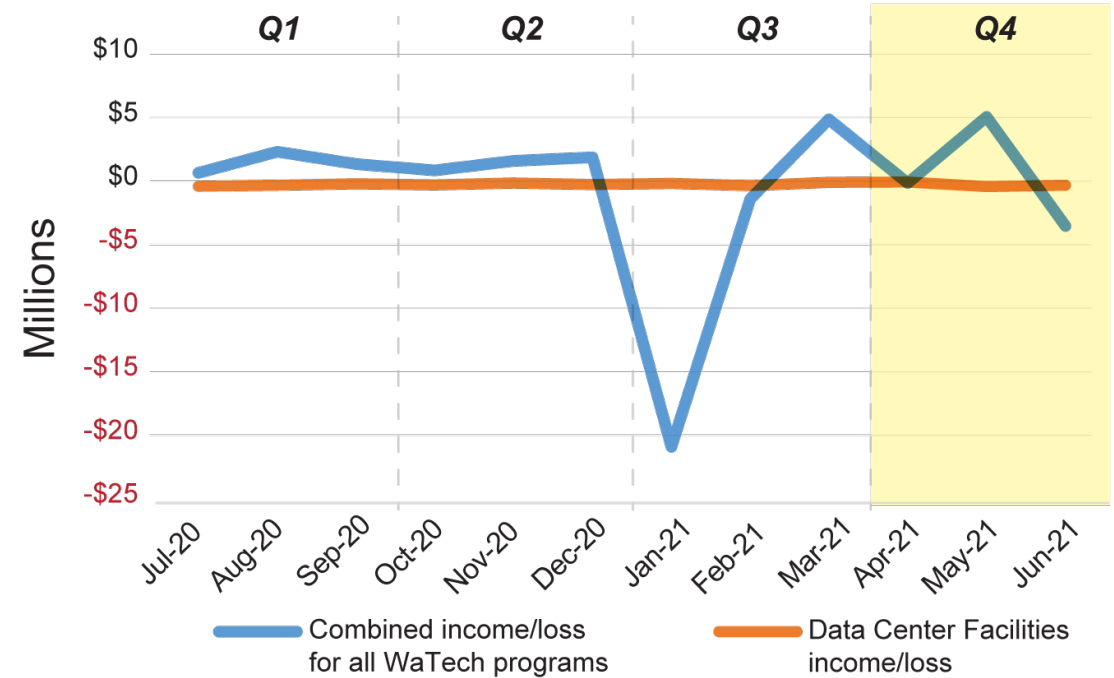
FY21 Program area income/loss

Q4/FY21

Program Management Services



Data Center Facilities



Program Management Services' and Data Centers' revenues and spending are mostly consistent from month to month. Spending in these divisions are mainly staff-related costs.

The drop in January 2021 is due to the purchasing and standardization of the M365 licenses for state agencies.

The dip in June 2021 reflects spending changes on software licenses, hardware maintenance and equipment renewals. Because these types of expenditures vary depending on the cycle of maintenance and renewals, spending may be higher in October, May and/or June.

Finances

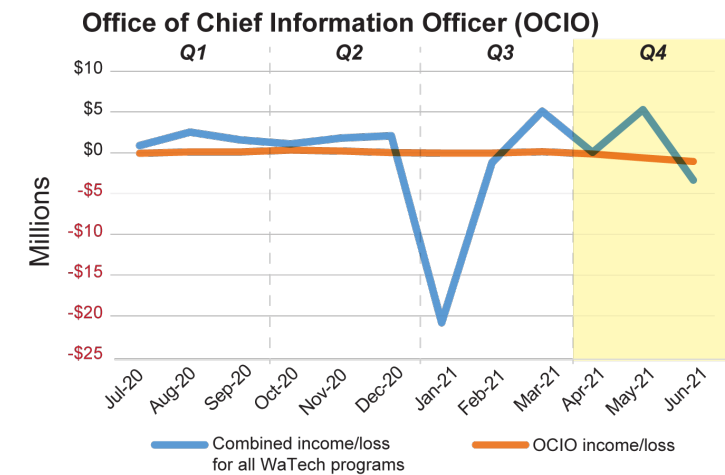
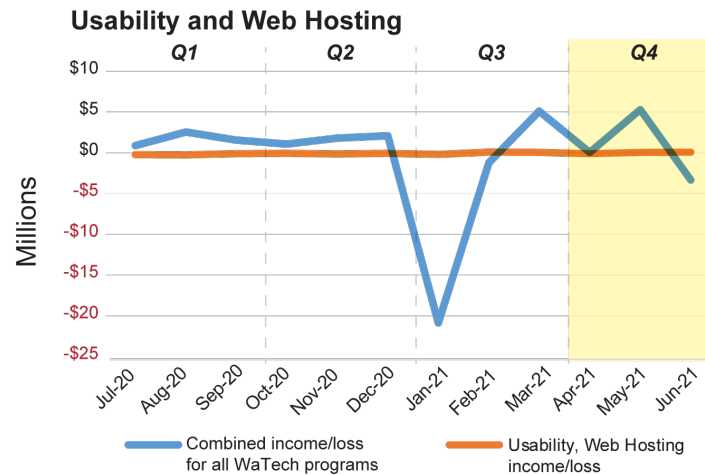
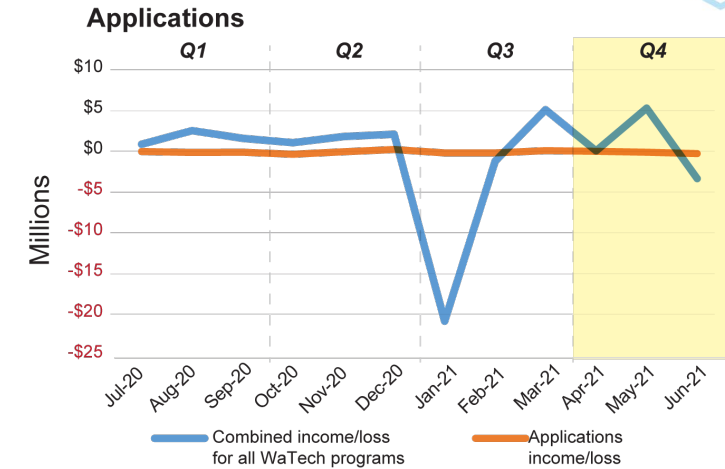
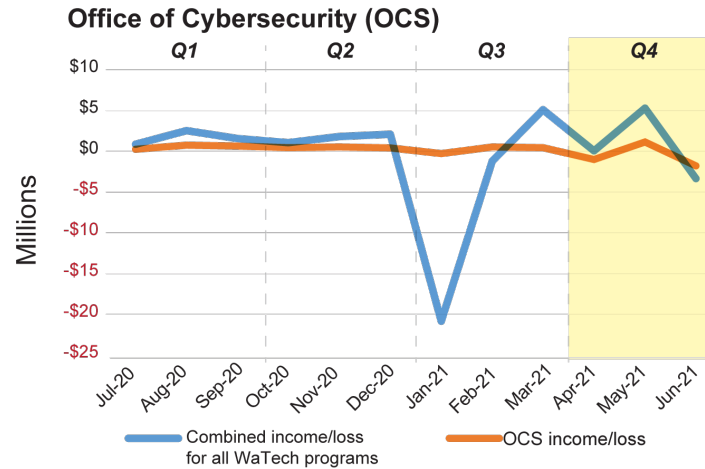
FY21 Program area income/loss

Q4/FY21

The Office of Cybersecurity, Applications, Usability and Web Hosting, and OCIO's revenues and spending are consistent from month to month.

The drop in January 2021 is due to the purchasing and standardization of the M365 licenses for state agencies.

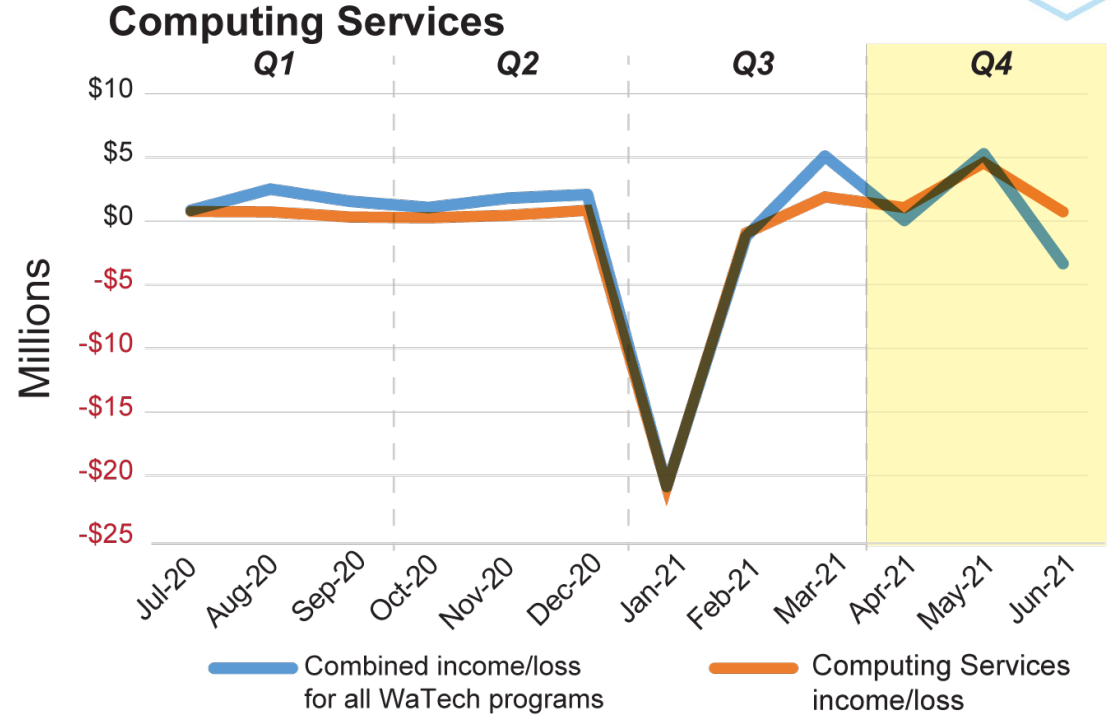
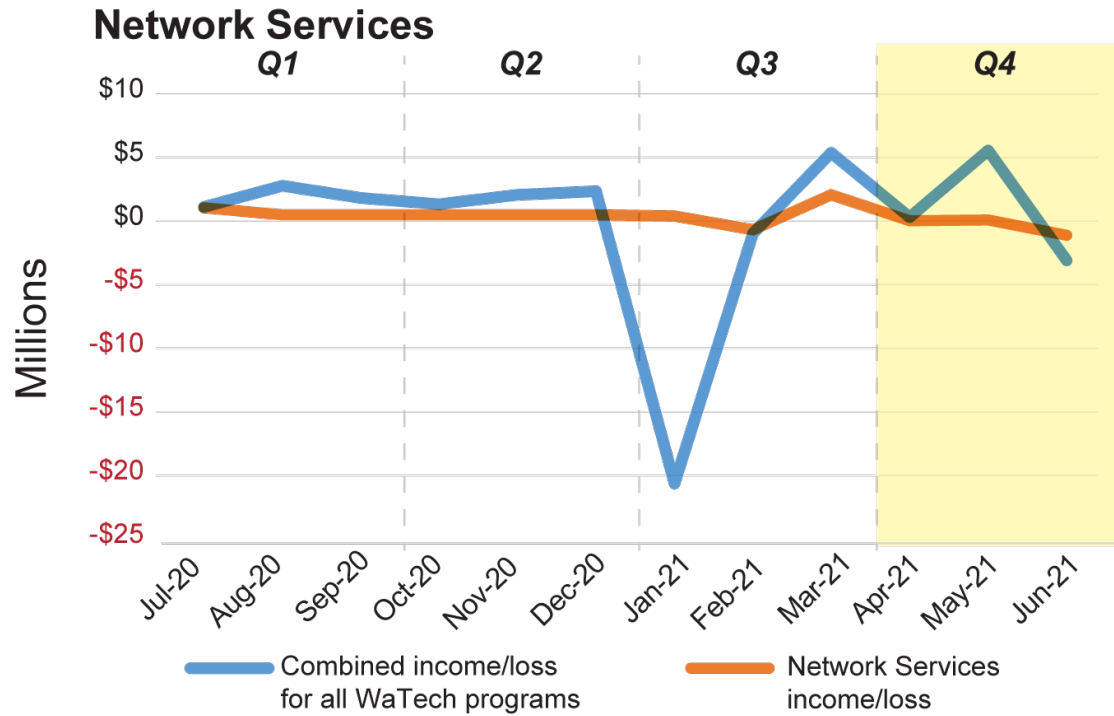
The dip in June 2021 reflects spending changes on software licenses, hardware maintenance and equipment renewals. Because these types of expenditures vary depending on the cycle of maintenance and renewals, spending may be higher in October, May and/or June.



Finances

FY21 Program area income/loss

Q4/FY21



Network Services' and Computing Services' revenues and spending are varied from month to month and depends on the software licenses, hardware maintenance, and equipment refreshes/renewals.

The drop in January 2021 is due to the purchasing and standardization of the M365 licenses for state agencies.

The dip in June 2021 reflects spending changes on software licenses, hardware maintenance and equipment renewals. Because these types of expenditures vary depending on the cycle of maintenance and renewals, spending may be higher in October, May and/or June.

For more information, please contact:

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