Gardens & Museums

lssue 6 Summer 2021



Inside this Issue

- 1. Welcome
- 2. What's been going on?
- 3. SSO MFA: Implementation Update
- 4. Museum of Natural History Wiring Project
- 5. Hybrid Working; Home & Office Meetings
- 6. Apple Service Improvements
- Service & Support Statistics 1st February 2021 to 30th April 2021
- 8. 2020/2021 GMIT Roadmap

Gardens & Museums IT Contact Details

- Feedback Email: it@glam.ox.ac.uk
- IT Support Email: it@museums.ox.ac.uk

If you require this document in an alternative format please contact us via <u>it@museums.ox.ac.uk</u>

Welcome

Welcome to the Summer edition of the Gardens & Museums IT Newsletter.

Since the last time I wrote (in March) so much seems to have happened, from both a work capacity but also in the world we live! Many of us have now received our first Covid vaccination and the Gardens & Museums are once more open with us all hoping that this remains the case.

We have been incredibly busy working on a number of projects across all locations in a number of service areas, requiring different working processes. With this in mind it has really struck me how many of our practices have evolved or adjusted throughout Covid to meet the continued and changing IT demands. I currently sit in my dining area working on my laptop testing a panoramic webcam for hybrid working, whilst a desktop computer is connected to my living room TV updating, and a laptop is configuring on my daughter's high chair table.

At the same time I know that Alex has set up a tablet configuration line in his house, whilst Anjanesh's kitchen at many points has had more networking equipment connected than it has kitchen appliances!

I write this because all of the Gardens & Museums IT Newsletters have been created during the Pandemic and as we finally look to move past this (at least to some degree) it's particularly poignant to mark the changes and adjustments we've made in continuing our service despite the challenges.

Please read on for information on what we've been up to over the last 3 months and what's coming in the Summer of 2021!

All the best

Carl

Carl Parker IT Service Manager

What's been going on?

Outreach & Engagement

Anjanesh recently presented at the JISC Networkshop49 on Identity & Access Management (<u>https://www.jisc.ac.uk/blog/im-always-looking-for-better-ways-to-make-identity-and-access-management-seamless-19-feb-2021</u>). Also Amazon published a case study showcasing Machine Learning in Heritage collections based on a GMIT led pilot with the Ashmolean Coins Collection (<u>https://aws.amazon.com/solutions/case-studies/oxford-case-study/</u>).

History of Science Museum Collections Online

The HSM Collections Online project has begun with GMIT leading on the API service design.

Cloud News

Successful proof of concept testing of running a Windows client on Amazon has taken place. This uses the Amazon AppStream service to run Windows systems inside a web browser offering a flexible cloud based application. The potential benefits of using this includes securely enabling any windows software to be used by any devices.

Microsites Project

With the assistance of a new Amazon Service Partner and Web Developer, a pilot and test has been successfully completed on the GM Legacy Websites and migration is now underway.

Ashmolean Net2 Server at Harkness

With the support of Helder Sousa (Head of Ashmolean Security) the Net2 Server which controls access to the Harkness Building has been decommissioned and replaced with a Dell Micro PC reducing annual costs.

Adobe Licence Renewal

The Adobe Licences in use across the Gardens & Museums have been reviewed and renewed. If you have a current Adobe Licence which you do not make use of please get in contact with us so that we can release the licence and reduce the Adobe costs.

Museum of Natural History 'Meat the Future' Interactive PC

An Interactive PC with automated functionality has been configured by GMIT for the latest MNH Exhibition 'Meat the Future'. This interactive allows you to check the environmental impact of your grocery shopping choices!

OBG Display PC

An automated Display PC was built and deployed by GMIT in the Charlotte Building Kitchen for the display of news and updates.

Other activities of note...

- SSO MFA please see Page 3
- Museum of Natural History Wiring Project- please see Page 4
- Hybrid Working; Home & Office Meetings please see Page 5
- Apple Service Improvements please see Page 6

SSO MFA: Implementation Update

The implementation of Multi-factor Authentication has continued to progress, and has kept us very busy since the last time I wrote in March. Between the 1st of February and 31st April we received 120 MFA requests, which equated to 12% of the total number of requests (1014) we received in that period.

The project moved from our Personal Accounts to Project (Secondary) Accounts in this time and we established that there were 180 Project Accounts in use across the Gardens & Museums, with said accounts being used in a variety of ways. Therefore, significant investigation was needed to establish the requirements for these accounts and the best means to access, taking into consideration MFA and operational efficiencies.

I am happy to report that with the support and cooperation of the Account Owners we have been able to find a solution for 166 of the accounts, with many of the accounts being removed or access being changed to pre-authorized as opposed to password based access.

Location	Number Completed	Total Number	% Complete
GLAM Divisional Office	12	12	100
Ashmolean Museum	80	91	88
Museum of Natural History	13	13	100
Pitt Rivers Museum	23	24	96
History of Science Museum	15	16	94
Botanic Garden & Arboretum	23	24	96
Total	166	180	92

The project has now moved on to the implementation of MFA on those outstanding accounts, where we either didn't receive a response, or that a password alongside MFA was agreed to be the best means for access. This process began on the 4th May 2021 with Account Owners being contacted directly by IT Services. The remainder of the schedule can be seen below, and for a full outline of the project please see: <u>https://itservicesprojects.web.ox.ac.uk/multi-factor-authentication-project</u>

Secondary account	MFA Enabled Date
G & F	Tuesday 01-Jun-21
E	Wednesday 02-Jun-21
D	Thursday 03-Jun-21
С	Monday 07-Jun-21
В	Tuesday 08-Jun-21
A & No Email (SSO only)	Wednesday 09-Jun-21
Delayed	Thursday 15-Jul-21

Museum of Natural History Wiring Project

I began working in the Gardens & Museums IT Team in January 2018, and during all my time here there has been one project that has been ongoing throughout my tenure, which began in 2017 and this is the MNH Wiring Project.



This project has not been without its twists and turns, and has suffered many curve balls along the way.

After much effort and many hours (and tears) I'm delighted to say (as I'm sure are many others) that this massive networking improvement is finally complete!

Anjanesh has been leading the project from a Gardens & Museums IT perspective and has seen his creativity, ingenuity and technical prowess severely tested during the project, but has achieved - alongside the project team and ably assisted by Dan and Spiro - some amazing things!

Highlights:

- 800 data points installed
- 30 data switches installed
- Chorus Phone System deployed
- Fanless switches (which do not generate noise) installed in shared working areas
- Sustainable principles applied
- Installation of self contained air conditioned cabinet
- Plug-and-play networking
- £500k investment

The completion of this project is a huge step forward and improvement for the Museum of Natural History and GLAM.

A massive congratulations to all those involved!



Hybrid Working; Home & Office Meetings

One of the current talking points within the University is hybrid working, and in particular how meetings between multiple colleagues working on site and those working at home can be facilitated.

With this in mind we have been discussing this requirement with University suppliers and colleagues to ascertain ways and means this is being tackled elsewhere. Our aims were to establish simple to use, flexible and efficient solutions to this problem.



Each provides different benefits, with the Owl offering 360° degree camera, mic, and speaker functionality. The Jabra Panacast & Speak 710 are two small linked devices offering 180° panoramic video and omni-directional microphone and speaker. And the Panacast 50 is an intelligent video bar providing panoramic 180° video with 8 microphones and 4 speakers.

We will update on our trials with the 3 products.

After said investigations we have purchased 3 products to trial in view of determining the functionalities they offer and suitability to the various meeting scenarios and room layouts.

The 3 products we have purchased and are currently testing are...

- Meeting Owl Pro
 https://uk-shop.owllabs.com/products/meeting-owl-pro
- Jabra Panacast & Speak 710 - <u>https://www.jabra.co.uk/business/video-conferencing/jabra- panacast</u>
 - Jabra Panacast 50 https://www.jabra.co.uk/business/video-conferencing/jabrapanacast-50##8200-237





Apple Service Improvements

When we developed and implemented the Gardens & Museums IT Jamf Apple Service in 2019 and 2020 our main aim was to enhance the security of the Apple devices in line with University Information Security and to improve how we support Apple devices. The implementation of Jamf has proved incredibly beneficial and fulfilled these aims, whilst seamlessly enabling Working from Home.

Recently we have been looking into, and working on further improvements we can make to the Apple Service - some of which we plan to implement over the Summer.

Single Sign On Login - Jamf Connect

For some time we have been investigating and working on how your University of Oxford Single Sign On Login could be implemented on Apple Computers across the Gardens & Museums. By using your University SSO username and password computer security could be further enhanced, whilst also offering one less username and password to remember.



We are pleased to say that we have been able to achieve this with an additional Jamf application called Jamf Connect (no link to IT Services CONNECT), which synchronises your Apple Login with your Oxford Single Sign On.

Computers installed from June onwards will have the SSO Login process already in place. For other computers we will begin the implementation this Summer and look to complete in the Autumn. All Apple users will be contacted directly before any changes are made and if you would like to be an early adopter please email <u>it@museums.ox.ac.uk</u>. Further information on Jamf Connect can be found here: <u>https://www.jamf.com/products/jamf-connect/</u>.

Apple iMac Replacement

We are making progress on the replacement of Apple iMacs across the Gardens & Museums, focusing on those machines which have recently been proving problematic. We will now move on to replacing those which will not be able to be updated to the latest version of MacOS. We will directly contact our colleagues who will be impacted.



Code42 - Cloud Backup Solution

We have been looking into a new data backup solution for our Apple Computers and recently we have become part of an IT Services trial of Code42 (<u>https://help.it.ox.ac.uk/hfs-code42-cloud-backup-service</u>), which has proved to be an efficient and easy to use back-up solution. I am happy to confirm Code42 has been approved for University use and is now the recommended application for securing University data on your desktop and laptop.

We will now be looking into the best means to make this available across the Gardens & Museums Apple Computers.

Service & Support Statistics – 1st February 2021 to 30th April 2021

Quarter 3 was once more an incredibly busy time, with the number of requests reflecting this. This was particularly evident with work on MFA (120 requests), Networking activities

(120 requests), Networking activities across G&M (150 requests), the

Support Requests Received in Period	1014
Support Requests Resolved in Period	1012
Average Days to Respond	0.3
Average Days to Resolve	2.3

Apple Service (87 requests) and Software Support (69 requests).

Significant effort and work also took place in the areas of Finance and Procurement (56 requests) with new IT equipment being sourced and ordered to cover the evolving demands of hybrid working. Also Adobe software licencing agreements were investigated during this period and renewed.





Numbers were expected to be lower than last year as the requests received in the same period were incredibly high due to the move to Working from Home and the IT challenges this brought and the support required. Therefore these high numbers are unexpected but likely impacted by major activities including the MNH Wiring Project and the implementation of Multi-Factor Authentication.

Full Service Reports are available on the Gardens & Museums IT Website: https://it.museums.ox.ac.uk/article/service-reports.

Gardens & Museums IT Issue 5 - Spring 2021

2020/2021 GMIT Roadmap

Project/Activity	August 2020	September 2020	October 2020	November 2020	December 2020	January 2021	February 2021	March 2021	April 2021	May 2021	June 2021	July 2021	2021/2022
JAMF: Apple Management Service	Jamf SSO Integration			MacOS 10.15 Upgrade			5 Tecting	lamf Connert Tr	esting, Configuration 8	Documentation		6 Uperade	Gardens & Museums: IOS Jamf Deployment *
Identity and Access Management	Jamf SSO Integration	Zoho Vault SSO	Restorement SSD	AWS Single Sign On		CMS DAMS SSO	Self Managed Computer SSD		esting, Configuration &		Artifax SSO		Jamf Connect Apple SSO Deployment
SSO Multi-Factor Authentication	Jam Joo magaton					tsation - includes comms, s			carring, consignation of	Cocomentation	POLINA 320		zem connect spine 200 department
Windows 10 (non-CONNECT)				PRM Security Machine	Self-Managed Win10 Update				Ashmolean Harkness & Decommisio	Net2 PC Configuration	Windows M	anagement Solution	Investigation & Development for Non-Connect Machines
GLAM Password Management	5.	vice Investigation & Configura	tion	WIII7 to WIII10	Win7 to Win10 Update			& Decommissi	uning of server			sigation & Configuration & Deplyment	
GLAM VPN	Design and planning	Testing and imple		PRM Archive Server Access									
BUSINESS AS USUAL	Design and planning	l'esting and imple	mentation	Access									
Reporting & Communications	Quarterly Service Report	Autumo Newsletter		Quarterly Service Report	Winter Newsletter		Quarterly Service Report	Spring Newsletter		Quarterly Service Report	Summer Newdetter		
OSM - Review & Change	Report		Current Service & Category Review		Implement Changes		Review of changes			Report			
Asset & Licence Management							DNS Audit		G&M Adobe Licenci	ng Review & Renewal			G&M - All sites Equipment Audit
Pitt Rivers Museum Filemaker 18 Upgrade	EMS	i Deployment	FM Pro D	Deployment									
SERVICE IMPROVEMENT													
Continual Service Improvement	Quarterly Newsletter Creation	Skills Matrix 2020		Quarterly Newsletter Creation			Quarterly Newsletter Creation			Quarterly Newsletter Creation			Skills Matrix 2021
	iMac provision analysis												
Apple Service Improvement			irement & Inventory			figuration				iMac Deployment			Jamf Connect Apple SSO Deployment
Gardens & Museums IT Website													
INFRASTRUCTURE IMPROVEMENT													
Public WI-FI		Server Move to University Datacentre	University Datacentre	OBG Go Live *						Aerohive Platf	orm Migration		
Infrastructure Improvements	Op Manager Service Configuration	PRM Converged Network				Op Manager Servic	ce Deployment	Cruz Training		Cruz Depl	loyment *		
Cloud Services							ongoing work with AW						
Hanwell Condition Monitoring System	Hanwell Roll	out : Botanic Gardens	Hanwell Rollout :	Harcourt Arboretum	Hanwell Mobile App	lication to G&M Locations							
Infrastructure Auditing and Documentation	Firewall Audit		Switch Auditing a	nd Documentating *	IP Addressing *	Infrastructure Doc	umentation *	Firewall Training					
Harcourt Arboretum Wi-Fi Implementation	Drone Photogrammetry	Council planning	Initial Rollout *			Deployr	ment and commissionin	6*					
Upper Heyford Shelter 7 Provisioning	Wire	ess and phones											
Upper Heyford Shelter 8 Provisioning	Test	ing , Deployment and Comissi	oning										
Natural History Museum Wiring (G&M MUSS61)													
Natural History Museum Chorus Deployment						NH Chorus - Phone Configu	ration and Deploymen						
Visitor Counter System	Visitor Count	er System Deployment	PRM Deployment	Live Occupancy System Deployment		HSM Deployment *					Explore rollout to ot	her GLAM Locations	
Access Control systems	SALTO Deployment - Harcourt		SALTO Depic		SALTO Cabinet Access Pilot		SALTO Docu						
PROJECTS													
Gardens & Museums Microsites Project (MUS739)													
Research & Innovation		Project to fun throughout 2020/21 - Items will be added and updated as planned and progressed											
CTRC (Reuben College)													
Sustainability Initiatives	Plastic Free Cabling - PRM				Renewable			sing; Energy Optimisa	tion; Cloud Strategy; B				
Display/Interactive				Liaison	OBGA Dislay PC: I, Guidance & Hardwar		OBGA DI Computer configural	splay PC: tion and deployment		MNH Interactive: Liaison, Configuration & Deployment			
OBGA Education iPads					OBGA Ec Liaison, Guidance	lucation iPads: & Hardware Quotations		Procureme	OBGA Education iPad: ent (quotation reviews	i; & guidance)	ASH PE & Research IPads: Liaison & Quotations	OBGA: D ASH: De	levice Configuration; Device Management; Deployment evice Configuration; Device Management; Deployment
G&M AV Consultation		Admotean HIT / PMM - Lision Education Admotean HIT / PMM - Suppler support. Procument, configuration & deployment of							M - Supplier support; Procurement, configuration & deployment of				
Hybrid Working		Laton with Spolar & Testing & Testing & Deployment Further Investigation, Documentation and Review											
CMS & DAMS - MUS764		Project to no throughout 2020/21											
Online Collections - MUS765		Project to run throughout 2000/21											
Ashmolean Lower Ground Gallery								throughout 2020/21					
Stores Move Project													
stores move Project		Peget for wat throughout 2000/21											

Please Note: Some tasks *may* be rescheduled in the event of further Covid-19 restrictions. The latest version can be found on the Gardens & Museums IT Website: https://it.museums.ox.ac.uk/article/documents