Ensuring Internet Access for QuickTalker Freestyle Users in Schools

Medical Device

The QuickTalker Freestyle is a medical device which has been prescribed by the student's physician and approved by the student's health insurance company as a medical necessity.

Function

The QuickTalker Freestyle is an augmentative and alternative communication (AAC) device. An AAC device is tablet-based speech device that helps someone with a speech or language impairment communicate. It allows a student to communicate with educators, peers, and the broader school community throughout the day. The device is essential to ensuring the student using it can fully participate in their instruction, learning outcomes, and goals.

Request

I would like to request that:

Student Name:

is allowed ongoing access to our school Wi-Fi network so all educators working directly with this student has the support of a myriad of tools available through the publisher of the speech application software and to ensure the application is allowed to update to the newest version as needed.

Recommend Firewall Settings for IT Administrators

This article is for IT Administrators who have received a request from someone using a QuickTalker Freestyle Speech device. For ableCARE Product Success to support users of these devices, the relevant ports and hosts in this article will need to be unblocked on your organization's firewall.

Port List

Please ensure that your organization's firewall does not block the following ports using the listed protocols and host names (if available).

443	TCP	albert.apple.com
443, 80	TCP	captive.apple.com
443	TCP	gs.apple.com
443	TCP	humb.apple.com
443, 80	TCP	static.ips.apple.com
443	TCP	tbsc.apple.com
123	UDP	time-ios.apple.com
123	UDP	time.apple.com
443, 80, 5223, 2197	TCP	*.push.apple.com
443	TCP	deviceenrollment.apple.com
443	TCP	deviceservices-external.apple.com
443	TCP	gdmf.apple.com
443	TCP	iprofiles.apple.com
443	TCP	mdmenrollment.apple.com
443	TCP	setup.icloud.com
443	TCP	vpp.itunes.apple.com
443	TCP	*.appattest.apple.com
443	TCP	identity.apple.com
80	TCP	appldnld.apple.com
443	TCP	gdmf.apple.com
443, 80	TCP	gg.apple.com
443, 80	TCP	gs.apple.com
443, 80	TCP	mesu.apple.com
443	TCP	ns.itunes.apple.com
80	TCP	updates-http.cdn-apple.com
443	TCP	updates.cdn-apple.com
443	TCP	xp.apple.com
443, 80	TCP	*.itunes.apple.com
443	TCP	*.apps.apple.com
443	TCP	*.mzstatic.com

443, 80	TCP	itunes.apple.com
443	TCP	ppq.apple.com
443	TCP	*.appattest.apple.com
443	TCP	token.safebrowsing.apple.com
443	TCP	gateway.icloud.com
443	TCP	doh.dns.apple.com
80, 443	TCP	certs.apple.com
80	TCP	crl.apple.com
80	TCP	crl3.digicert.com
80	TCP	crl4.digicert.com
80	TCP	ocsp.apple.com
80	TCP	ocsp.digicert.com
443	TCP	ocsp2.apple.com
44	TCP	valid.apple.com
443	TCP	account.apple.com
443	TCP	appleid.cdn-apple.com
443	TCP	idmsa.apple.com
443	TCP	gsa.apple.com
443	TCP	*.apple-cloudkit.com
443	TCP	*.apple-livephotoskit.com
443	TCP	*.cdn-apple.com
443	TCP	*.gc.apple.com
443	TCP	*.icloud.com
443	TCP	*.icloud.apple.com
443	TCP	*.icloud-content.com
443	UDP	mask.icloud.com
443	TCP	mask-h2.icloud.com
443	TCP	mask-api.icloud.com
8443, 443	HTTPS	
443	HTTPS	
80, 443	HTTP, HTTPS	

Additional Important Information

Hostnames

If your firewall supports using hostnames, you can enable outbound connections to *.apple.com to access most of the Apple services mentioned above. If your firewall can only be configured with IP addresses, simply allow outbound connections to the IP address 17.0.0.0/8, as this entire address block is

Apple Push Notifications

The QuickTalker Freestyle must maintain the connection to the Apple Push Notification Service. They will connect to ports 443, 80, 5223, and 2197 over TCP. As the APNs servers use load balancing they wont always connect to the same public IP addresses. Best practice will be to allow the devices to connect to those ports on the entire 17.0.0.0/8 address block, which is assigned to Apple.

If you cannot grant access to the entire 17.0.0.0/8 address block, you can still open up access to these network ranges on IPv4 or IPv6 by allowing the following ports:

IPv4	IPv6
17.249.0.0/16	2620:149:a44::/48
17.252.0.0/16	2403:300:a42::/48
17.57.144.0/22	2403:300:a51::/48
17.188.128.0/18	2a01:b740:a42::/48
17.188.20.0/23	

Sources for More Information:

https://support.apple.com/en-us/101555

https://support.apple.com/en-us/102266

https://learn.jamf.com/en-US/bundle/technical-articles/page/Network_Ports_Used_by_Jamf_Pro.html

For questions, contact:
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