temi

Firewall Requirements

Version History

	Launcher	Android Mobile	iOS Mobile	Temi Center	Date	
V1.8	14654	1.3.8399	1.1.45	21.05.3101	2021.06.06	First release.
V1.9	15567	1.3.8526	1.1.49	21.10.2001	2021.11.10	"Section 2 Row 9" added "production-temi-resources-private-virginia.oss-us-east-1.aliyuncs.com" for face-animation and wakeup models res.
V2.0	16293	1.3.8624	1.1.52		2022.03.03	"Section 2 Row 9" added production-user-storage-private-shenzhen.oss-cn-shenzhen.aliyuncs.com
V2.1	16398	1.3.8640	1.1.52	22.03.3001	2022.05.10	"Section 4 Row 3,4,5" modified for new video firewall requirement
V2.2					2022.05.16	"Section 2 Row 18, 21" "Section 3 Row 4" "Section 4 Row 5" modified for new video firewall requirement

1. Temi clients(robot, mobiles and center) to temi backend communication.

Those are mandatory for temi's clients to function properly

Number	Destination ports	Protocol	Transport	Destination Domains	Services	Direction
1	80,443	HTTP,HTTPS	TCP	• api.temi.cloud • api.robotemi.com	API (required for all clients)	Outbound
2	443	MQTTS	TCP	broker.temi.cloud	MQTT Broker. (required for temi and mobile)	Outbound
3	443	WSS	TCP	broker-wss.temi.cloud	MQTT Broker.(required for temi center)	Outbound
4	443	HTTPS	TCP	• haine.approoval.com • att-robotemi.approovr.io	Device Anti tampering protection (required for the mobile and temi)	Outbound
5	443 , 8883	HTTPS	TCP	• launch-3.firedome.io	Security Agent	Outbound

				- cdn.firedome.io - auth-3.firedome.io - mqtt.googleapis.com - api.ipify.org	(required for temi)	3
6	53	DNS	UDP		DNS service. Business can choose to use it's own DNS protocol	Outbound
7	443	HTTPS	TCP	temi-ota-updates.s3-accelerate.amazonaws.com	S3 Buckets for getting OTA (required for temi)	Outbound

2. Temi robot to external services

Those are mandatory for some features of temi robots (described in the document). User might decide to enable or block by his needs

Number	Destination ports	Protocol	Transport	Destination Domains	Services	Direction
1	443	gRPC, HTTPS	TCP	• dialogflow.cloud.google.com • dialogflow.googleapis.com	Natural Language Processing (required for temi to have voice interactions)	Outbound
2	443	gRPC, HTTPS	TCP	speech.googleapis.com	ASR (required for temi to have voice interactions)	Outbound
3	443	HTTPS	TCP	oauth2.googleapis.com	Google token (required for temi have voice interactions)	Outbound
4	443	gRPC, HTTPS	TCP	texttospeech.googleapis.com	Google Text To Speech (required for the robot to speak)	Outbound
5	443	HTTPS	TCP	• eastus.api.cognitive.microsoft.com • eastus.tts.speech.microsoft.com • southeastasia.tts.speech.microsoft.com	Azure Text To Speech (required for the robot to speak)	Outbound

				• southeastasia.api.cognitive.microsoft.com • eastus.tts.speech.microsoft.com • Tts-ingress-prod7.eastus.cloudapp.azure.com		
6	443	HTTPS	TCP	roboteam-assets.s3.eu-central-1.amazonaws.com	S3 buckets for tutorials (required for the application which shows tutorials on the robot)	Outbound
7	443	HTTPS	TCP	s3.eu-central-1.amazonaws.com	S3 buckets for screensavers(required for the robot to show a custom screen savers which were custom from the mobile app)	Outbound
8	443	HTTPS	TCP	temi-media-public.s3.amazonaws.com	S3 buckets for user profile image (required for the robots to show the profile pictures of it's contacts)	Outbound

9	443,80	HTTPS, HTTP	TCP	• oss-us-east-1.aliyuncs.com • production-user-storage-private-virginia.oss-us-east-1.aliyuncs.com • production-user-storage-private-shenzhen.oss-cn-shenzhen.aliyuncs.com • production-temi-resources-private-virginia.oss-us-east-1.aliyuncs.com	Alibaba Buckets for getting uploaded media from temi center (required for the robot to show all the uploaded media)	Outbound
10	443	HTTPS	TCP	• www.youtube.com • i.ytimg.com • www.googleapis.com • yt3.ggpht.com • s.youtube.com • youtube-ui.l.google.com • s.youtube.com • youtubei.googleapis.com • *.googlevideo.com	Youtube API for youtube skill(The application that plays Youtube from the robot)	Outbound
11	443	HTTPS	TCP	• newsapi.org • cdn.cnn.com	News API for the News skill	Outbound
12	443	HTTPS	TCP	• api.darksky.net • geomobilservices-pa.googleapis.com	Weather API and reverse geo location for the Weather skill (required by the weather application)	Outbound
13	443	HTTPS	TCP	• yelp-com.map.fastly.net • s3-media1.fl.yelpcdn.com • s3-media2.fl.yelpcdn.com • s3-media3.fl.yelpcdn.com • s3-media4.fl.yelpcdn.com • f2.shared.global.fastly.net • api.yelp.com	Yelp API for the Find skill	Outbound

14	443	HTTPS	TCP	in.appcenter.ms	temi analytics data (this is used to get usage analytics)	Outb ound
15	443	HTTPS	TCP	• iheartmedia.map.fastly.net us.api.iheart.com • *.revma.ihrhls.com • image.iheart.com	I Heart API for the IHeart Music skill	Outb ound
16	80 , 443	HTTP, HTTPS	TCP	• us.api.iheart.com • dualstack.prod.iheart.map. fastly.net • stream.revma.ihrhls.com • stream-a.revma.ihrhls.com • n3ca-e2.revma.ihrhls.com	I Heart API for the IHeart Music skill	Outb ound
17	443	HTTPS	TCP	• alexa.eu.gateway.devices. a2z.com • alexa.fe.gateway.devices.a 2z.com • alexa.na.gateway.devices. a2z.com • avs-alexa-fe.amazon.com • avs-alexa-eu.amazon.com • avs-alexa-na.amazon.com • api.amazon.com • spectrum.s3.amazonaws.c om • *.cloudfront.net • s3.amazonaws.com • s3-1-w.amazonaws.com • tinytts.amazon.com • media.amazon.map.fastly. net • bob-dispatch-prod-na.am azon.com • api.amazonalexa.com	Alexa (required for Alexa)	Outb ound

| 18 | 8443 | Other | UDP | • 107.155.14.132
• 69.28.51.142
• 128.1.78.146
• 128.1.77.34
• 128.1.87.146
• 125.88.159.163
• 140.210.77.68
• 106.14.12.130
• 118.190.148.38
• 54.178.26.110
• 52.221.23.86
• 13.230.60.35
• 54.178.26.110
• 52.221.23.86
• 13.230.60.35
• 15.206.47.129
• 13.127.149.196
• 35.156.231.150
• 15.237.134.178
• 184.72.16.87
• 35.168.106.53 | Used for the video call service (Required to successfully establish a video call between two clients)

Require firewall enablement on temi from the settings menu | Outb ound |
| 19 | 8001 -
8010,
4590 -
4600 | Other | UDP | • 148.153.53.106
• 148.153.53.105
• 128.1.78.94
• 164.52.53.78
• 164.52.53.77
• 106.3.140.195
• 106.3.140.194
• 14.29.38.144/28
• 27.45.161.144/28
• 183.232.200.144/28
• 115.238.206.0/28
• 106.3.209.0/28
• 112.13.216.0/28
• 219.153.111.128/28
• 221.178.42.0/28
• 113.207.12.0/28 | Used for the video call service (Required to successfully establish a video call between two clients)

Require firewall enablement on temi from the settings menu | Outb ound |

				128.1.186.240/28 129.227.73.32/28 103.193.127.208/28 129.227.113.112/28 129.227.55.96/28 122.10.153.74 129.227.234.123 129.227.217.128/28 129.227.108.208/28 128.1.105.112/28 104.166.160.208/28 23.236.110.32/28 104.166.142.134 104.166.161.4 128.14.195.192/28 128.14.245.16/28 128.14.72.80/28 128.14.200.208/28		
20	443	HTTPS	TCP	*.cloudfront.net us1-cdn.openchannel.io	temi store apps	Outbound
21	443	HTTPS	TCP	101.132.108.165 123.56.235.221 14.29.38.144/28 27.45.161.144/28 183.232.200.144/28 115.238.206.0/28 106.3.209.0/28 112.13.216.0/28 219.153.111.128/28 221.178.42.0/28 113.207.12.0/28 13.250.89.184 18.176.162.64 128.1.186.240/28	Used for the video call service (Required to successfully establish a video call between two clients) Require firewall enablement on temi from the settings menu	Outbound

				129.227.73.32/28 103.193.127.208/28 168.138.214.216 18.176.162.64 129.227.113.112/28 129.227.55.96/28 122.10.153.74 129.227.234.123 3.109.116.108 20.193.241.143 129.227.217.128/28 129.227.108.208/28 128.1.105.112/28 52.28.239.238 3.9.120.239 104.166.160.208/28 23.236.110.32/28 104.166.142.134 104.166.161.4 52.54.85.111 184.72.18.217 128.14.195.192/28 128.14.245.16/28 128.14.72.80/28 128.14.200.208/28		

3. Temi mobile to external services

Those are mandatory for some features of temi mobile apps(described in the document). User might decide to enable or block by his needs

Number	Destination ports	Protocol	Transport	Destination Domains	Services	Direction
1	443	HTTPS	TCP	*.pushy.me *.pushy.io	Push notification service (Required for the application to get incoming call while its turned off or in the background)	Outbound
2	8443	Other	UDP	• 107.155.14.132 • 69.28.51.142 • 128.1.78.146 128.1.77.34 • 128.1.87.146 • 125.88.159.163 • 140.210.77.68 • 106.14.12.130 • 118.190.148.38 • 54.178.26.110 • 52.221.23.86 • 13.230.60.35 • 54.178.26.110 • 52.221.23.86 • 13.230.60.35 • 15.206.47.129	Used for the video call service (Required to successfully establish a video call between two clients) Require firewall	Outbound

					13.127.149.196 35.156.231.150 15.237.134.178 184.72.16.87 35.168.106.53	enablement on the mobile app settings	
3	8001 - 8010, 4590 - 4600	Other	UDP	148.153.53.106 148.153.53.105 128.1.78.94 164.52.53.78 164.52.53.77 106.3.140.195 106.3.140.194 14.29.38.144/28 27.45.161.144/28 183.232.200.144/28 115.238.206.0/28 106.3.209.0/28 112.13.216.0/28 219.153.111.128/28 221.178.42.0/28 113.207.12.0/28 128.1.186.240/28 129.227.73.32/28 103.193.127.208/28 129.227.113.112/28 129.227.55.96/28 122.10.153.74 129.227.234.123 129.227.217.128/28 129.227.108.208/28 128.1.105.112/28 104.166.160.208/28 23.236.110.32/28 104.166.142.134 104.166.161.4 128.14.195.192/28	Used for the video call service (Required to successfully establish a video call between two clients) Require firewall enablement on the mobile app	Outbound

					• 128.14.245.16/28 • 128.14.72.80/28 • 128.14.200.208/28		13
4	443	HTTPS	TCP	• 101.132.108.165 • 123.56.235.221 • 14.29.38.144/28 • 27.45.161.144/28 • 183.232.200.144/28 • 115.238.206.0/28 • 106.3.209.0/28 • 112.13.216.0/28 • 219.153.111.128/28 • 221.178.42.0/28 • 113.207.12.0/28 • 13.250.89.184 • 18.176.162.64 • 128.1.186.240/28 • 129.227.73.32/28 • 103.193.127.208/28 • 168.138.214.216 • 18.176.162.64 • 129.227.113.112/28 • 129.227.55.96/28 • 122.10.153.74 • 129.227.234.123 • 3.109.116.108 • 20.193.241.143 • 129.227.217.128/28 • 129.227.108.208/28 • 128.1.105.112/28 • 52.28.239.238 • 3.9.120.239 • 104.166.160.208/28 • 23.236.110.32/28	Used for the video call service (Required to successfully establish a video call between two clients) Require firewall enablement on the mobile app	

				• 104.166.142.134 • 104.166.161.4 • 52.54.85.111 • 184.72.18.217 • 128.14.195.192/28 • 128.14.245.16/28 • 128.14.72.80/28 • 128.14.200.208/28 •		

4. Temi center to external services

Those are mandatory for some features of the temi center(described in the document). User might decide to enable or block by his needs

Number	Destination ports	Protocol	Transport	Destination Domains	Services	Direction
1	443	HTTPS	TCP	*.pushy.me *.pushy.io	Push notifications service. This is for triggering incoming call notification on chrome browser when the user is logged off	Outbound
2	443	HTTPS	TCP	center.robotemi.com	temi center domain	Outbound
3	80; 443; 3433; 4700 - 5000; 5668; 5669; 6080; 6443; 8667; 9667; 30011 - 30013 (for Media Push)	HTTPS	TCP	• *.agora.io • *.edge.agora.io • *.sd-rtn.com • *.edge.sd-rtn.com	Used for the video call service (Required to successfully establish a video call between two clients) Require when firewall mode is off	Outbound

#	Port	Type	Protocol	Address	Description	Direction
					on temi center	
4	3478; 4700 - 5000	Other	UDP	• *.agora.io • *.edge.agora.io • *.sd-rtn.com • *.edge.sd-rtn.com	Used for the Video call service (Required to successfully establish a video call between two clients) Require when firewall mode is off on temi center	Outbound
5	443	Other	TCP,UDP	North America • 128.14.195.192/28 • 128.14.245.16/28 • 128.14.72.80/28 • 128.14.200.208/28 • 47.252.17.251 • 170.106.135.177 Europe • 104.166.160.208/28 • 23.236.110.32/28 • 148.153.25.148 • 148.153.25.147 • 148.153.25.146 • 148.153.25.184 • 148.153.93.19 • 148.153.93.24	Used for the Video call service (Required to successfully establish a video call between two clients) Require when firewall mode is on on temi center	

				• 148.153.93.25 • 148.153.93.27 • 47.254.149.145 • 162.62.220.8 India • 129.227.217.128/28 • 129.227.108.208/28 • 128.1.105.112/28 • 147.139.34.215 • 129.226.26.104 • 161.117.177.218 • 104.250.52.195 Japan • 129.227.113.112/28 • 129.227.55.96/28 • 164.52.24.41 • 164.52.24.44 • 164.52.24.43 • 103.101.125.26 • 103.101.125.20 • 103.101.125.22 • 122.10.153.90 • 47.245.7.250 • 43.128.248.97 Southeast Asia • 128.1.186.240/28 • 129.227.73.32/28 • 103.193.127.208/28 • 161.117.177.218 • 104.250.52.195 Mainland China • 14.29.38.144/28 • 27.45.161.144/28		

				• 183.232.200.144/28 • 115.238.206.0/28 • 106.3.209.0/28 • 112.13.216.0/28 • 219.153.111.128/28 • 221.178.42.0/28 • 113.207.12.0/28 • 139.196.42.124 • 123.56.57.206		
6	443	HTTPS	TCP	global.localizecdn.com	Used to access translation services	Outbound
7	443	HTTPS	TCP	google-analytics.com	Used to access analytics services	Outbound
8	443	HTTPS	TCP	googletagmanager.com	Used to access tag manager services	Outbound
9	443	HTTPS	TCP	temi-media-public.s3.amazonaws.com	Used to download temi center public contacts pictures	Outbound
10	443	HTTPS	TCP	production-user-storage-private-virginia.oss-us-east-1.aliyuncs.com	Used to download and upload user media	Outbound