

Ports and protocols

Ports and protocols ? commercial Microsoft 365 voice

Firewall prefixes re-checked 15 October 2026. Two lists. Do not merge them.

Source: <https://learn.microsoft.com/en-us/microsoftteams/direct-routing-plan>

Source: <https://learn.microsoft.com/en-us/microsoft-365/enterprise/urls-and-ip-address-ranges>

Source: <https://learn.microsoft.com/en-us/microsoftteams/qos-in-teams>

Direct Routing signaling TCP 5061 TLS to sip, sip2, and sip3

Media low UDP 3478-3481

Media high UDP 49152-53247

Client audio UDP/TCP 50000-50019 DSCP 46 EF

Client video UDP/TCP 50020-50039 DSCP 34 AF41

Client sharing UDP/TCP 50040-50059 DSCP 18 AF21

Client signaling UDP/TCP 50070-50089 DSCP 40 CS5, not configurable

SBC signaling and media 52.112.0.0/14 and 52.120.0.0/14

SBC IPv6 2603:1063:400::/40, media also 2603:1063:100::/40

Teams client optimize 52.112.0.0/14 and 52.122.0.0/15, IPv6 2603:1063::/38

GCC High media 52.127.88.0/21 DoD media 52.127.64.0/21

52.120.0.0/14 is not the client optimize list. 52.122.0.0/15 is not the SBC pair.

GCC High and DoD use different proxy names. Do not copy a commercial ACL.

Browser joins do not use the fixed 50000 desktop ranges.

Signaling stays with Teams. Media bypass does not move SIP off 5061.

CypherMonkey Labs ? <https://cyphermonkeylabs.com> ? <https://github.com/CypherMonkeyLabs> ?

<https://linktr.ee/cypherMonkey> ? <https://github.com/CypherMonkeyLabs/microsoft-voice-cc-lab-free-university-mesmerizing> ? (c) 2026 CypherMonkeyLabs. Independent educational project,

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