



MindLink – Version 19.1

Release Notes

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MindLink Product Suite 19.1

1.1 Introduction

The latest version of the MindLink offers new features, bug fixes and improvements on the previous, giving you an enriched UC experience with Microsoft Lync, Skype for Business, Skype for Business Online and notably the Persistent Chat feature.

1.2 Client-side Requirements

1.2.1 [MindLink Desktop \(v3\) – MLD](#)

MindLink Desktop (v3) supports the following browsers:

- IE10, IE11, Edge, FireFox, Chrome, Safari on Mac, Safari on iOS Tablets (for iOS 10.3 and above)

MindLink Desktop (v3) supports the following chat systems:

- Lync 2010, Lync 2013, Skype for Business 2015, Skype for Business Online

1.2.2 [MindLink API](#)

MindLink API supports the following chat systems:

- Lync 2010, Lync 2013, Skype for Business 2015

1.2.3 [MindLink Mobile - MLM](#)

MindLink Mobile supports the following operating systems:

iOS Devices

- iOS 10.3 and above on iPhone, iPad and iPod touch devices

Android Devices

- Android OS version 6.0 and above

MindLink Mobile supports the following chat systems:

- Lync 2010, Lync 2013, Skype for Business 2015, Skype for Business Online

1.3 Server-side requirements

1.3.1 [MindLink Anywhere – MLA](#)

The minimum system requirements are:

- Microsoft Windows Server 2008 SP2, 2008 R2, or 2012 SP2, 2012 R2, 2016 (all 64-bit)
- Microsoft .Net Framework 3.5
- Microsoft .NET Framework 4.7.2
- C++ redistributable installation binary (2012 version - for Lync 2013 only)
- C++ redistributable installation binary (2013 version - for Skype for Business 2015 only)
- C++ redistributable installation binary (2013 version and 2017 version - for Skype for Business 2019 only)
- Microsoft Office 365 Tenancy (Skype for Business Online only)
- Compatibility with Microsoft UCMA 2.0 and GroupChat SDK
- Open the following (default) ports: 4097 and 9007

The minimum hardware requirements are:

- Dual or Quad core, 64-bit CPU (minimum 2.4 GHz)
- Gigabit Ethernet connection
- 4GB RAM
- 1Gb disk space (80Mb for installation of binaries and up to 1Gb for Preferences to support over 1000 users)

Additional space for log files (minimum 100 MB)

Certificate requirements:

- Token Issuing Certificate (Web Authentication): minimum, a 2048-bit key strength
- Security
- Platform

1.3.2 [MindLink API](#)

The minimum system requirements are:

- Microsoft .Net Framework 3.5
- Microsoft .Net Framework 4.7.2
- C++ redistributable installation binary (2012 version - for Lync 2013 only)
- C++ redistributable installation binary (2013 version - for Skype for Business 2015 only)
- C++ redistributable installation binary (2013 version and 2017 version - for Skype for Business 2019 only)
- Microsoft Windows Server 2008 SP2, 2008 R2, or 2012, 2016 (all 64-bit)
- 500MB Disk Space for Data and Log files
- Open the following (default) ports: 4096 and 9006

The minimum hardware requirements are:

- Dual or Quad core, 64-bit CPU (Minimum 2.4GHz)
- 4GB RAM
- Gigabit Ethernet connection

80MB Disk Space for installation of binaries

1.3.3 MindLink Mobile – MLM

The minimum system requirements for MindLink Mobile are:

- Microsoft Windows Server 2008 R2, or 2012, 2012 R2, 2016 (all 64-bit)
- Microsoft .Net Framework 3.5
- Microsoft .NET Framework 4.7.2
- C++ redistributable installation binary (2012 version - for Lync 2013 only)
- C++ redistributable installation binary (2013 version - for Skype for Business 2015 only)
- C++ redistributable installation binary (2013 version and 2017 version - for Skype for Business 2019 only)
- Microsoft Office 365 Tenancy (Skype for Business Online only)
- Microsoft SQL Server 2008 R2 or above (required for high availability deployments)
- Open the following (default) ports: 4099 and 9009
- TLS 1.2 Security Protocol must be enabled on the server o To run clients on iOS 9+ devices against the server securely

The minimum hardware requirements are:

- Dual or Quad core, 64-bit CPU (Minimum 2.4GHz)
- 4GB RAM
- Gigabit Ethernet connection
- 60MB Disk Space for installation of binaries
- Additional Disk Space may be required for storing log files, minimum of 100MB
- Optional SSL Certificate installed for secure communication

Certificate requirements:

- Socket Server
- Host Identification Web Service
- Session Web Services
- Platform
- APNS: Provided by MindLink
- Must meet ATS requirements for iOS device connections
 - o All certificates, except the Platform certificate, require a minimum 2048-bit key strength.

1.4 New Features

Iteration 19.1 provides the following new features:

General

Remembering open private conversations across sessions

A user's last active conversation in their previous session, and any conversations in which a user has sent or received messages are now remembered across sessions. This is done seamlessly by the server.

Queuing message-sending when disconnected on MLA and MLM

Previously users had to wait for reconnection to occur before composing messages. Currently messages can be composed when disconnected. MindLink Anywhere and MindLink Mobile will now queue and send messages in the background as soon as the connection recovers. This improves the usability of MindLink Anywhere and MindLink Mobile in low-bandwidth scenarios.

MindLink Anywhere (Web)

Rebrand from MindLink Desktop to MindLink Anywhere

The web application, formerly known as MindLink Desktop, has been rebranded to MindLink Anywhere. This was to clarify our "work-anywhere" message, and better reflects the technology involved.

Voice improvements in MLA

Additional improvements to the UX and client handling have been introduced. Calling buttons have been added to the conversation header in private conversations. The status bar now displays more clearly when calling. The client now detects if the browser cannot do audio, and report this correctly to Skype for Business. Finally, the client now detects whether the user has a microphone installed and a warning is shown if the microphone isn't installed.

Multiparty Voice in MindLink Anywhere

MindLink Anywhere now supports voice calling for Multiparty conversations. This includes starting and being invited to multiparty voice calls, and management of the individual modalities available in each conversation.

Folders in MindLink Anywhere

Support for folders has been introduced into MindLink Anywhere. Folders are fully configurable from the client, including dragging-and-dropping to reconfigure them.

Playing a sound when a message is sent in MLA

The web client now plays a sound when messages are sent. This is a configurable option in the global settings.

Performance improvements in MLA

Users on older Firefox versions complained that the UX became sluggish after a period of use. After investigation, browser bottlenecks had been identified with how the user interface is laid out by the browser. Using more recent browser technology these bottlenecks have been fixed.

MindLink Mobile

User colours in MLM

MindLink Mobile now shows user display names in different colours, based on the user. This mirrors a feature from other common mobile messaging applications. The colour of the user display name is generated from the user's name.

MindLink API

Issue "user is typing" notifications from API bots

When a chat bot is simulating a conversational interaction, it is convenient to show "thinking" time by issuing typing notifications to the human user. This gives feedback that the bot has received the previous message and is about to reply. This functionality has been introduced to the API so that a bot can trigger its own typing notification in a 1-2-1 chat.

Reset API event stream across server restarts

For a bot to receive notifications of events happening on the chat system e.g. new messages being received, it uses an "event polling" mechanism, driven by an event cache on the API server.

When listening for new events across a server restart, the bot was not informed of the restart, but the event cache was reset.

To address this a new mechanism has been added to coordinate polling for events across server restarts, so the API server event cache understands that the server has been restarted since the last poll.

This change is backwards compatible with existing bots.

1.5 Improvements

The following improvements have been made in this version of the MindLink Product Suite.

ID	Details	Product
FCF-7505	Various Calling UX Improvements	MindLink Anywhere
FCF-7513	Update Pchat 2013/2015 SDK to the latest	Host
FCF-7570	Update UCMA 5 (Skype 2015) dependencies to January 2019 CU	Host, UCMA Connector
FCF-7540	Update to the latest BBSDK [Android]	MindLink Mobile
FCF-7572	Make the polling for events mechanism work across server restarts	MindLink API
FCF-7527	Detect the supported access levels when creating multiparties	UCMA Connector
FCF-7577	Save/load DockStructure to file system when group chat not enabled	UCMA Connector
FCF-7481	Remember the open private conversations across sessions	MindLink Anywhere
FCF-7571	Allow a bot to notify composing/not composing	MindLink API
FCF-7579	File transfer cache path should be normalized by Management Tool	Management tool
FCF-7509	Play a sound when a message is sent	MindLink Anywhere
FCF-7528	Rebrand from MindLink Desktop to MindLink Anywhere	Management tool, MindLink Anywhere
FCF-7462	We should show call buttons in the private conversation header	MindLink Anywhere
FCF-7543	Dragging item in the dock should scroll up/down when the limits are reached (ie10 and edge)	MindLink Anywhere
FCF-7547	Add ability to rename a folder	MindLink Anywhere
FCF-7482	Queue up outbound messages when disconnected	MindLink Anywhere
FCF-7533	Add last viewed line to mobile	MindLink Anywhere
FCF-7548	Add the ability to remove an empty folder	MindLink Anywhere

1.6 Dropped Features

With this release (version 19.1) of the MindLink product suite no features have been dropped.

1.7 Breaking changes

With this release (version 19.1) of the MindLink product suite there were no breaking changes.

1.8 Known issues, limitations, restrictions

Below is a table of known issues, limitations and restrictions affecting the current version (19.1) of the MindLink product suite.

ID	Details	Product
FCF-7714	Safari (iOS) Home page is cut off and not scrollable	MindLink Anywhere
FCF-7716	Skype meeting app not detected when initially logging in on IE11	MindLink Anywhere
FCF-7684	Sound plays for every other message sent on Safari (Mac)	MindLink Anywhere
FCF-7672	STUN - chrome fails to connect to multiparty audio calls	MindLink Anywhere
FCF-7644	Safari gets stuck playing calling sound	MindLink Anywhere
FCF-7646	Folders past the un-scrolled dock width limit wont work after horizontal scrolling to expose them	MindLink Anywhere
FCF-7674	long name users squash profile picture (presence menu)	MindLink Mobile
FCF-7692	Good MDM - Preconfigured URL is not greyed out	MindLink Mobile
FCF-7550	In macos safari dragging to the root folder opens the reading side-pane and you can't drop	MindLink Anywhere
FCF-7689	Folders not persisting on SfBO	SfBO Connector
FCF-7544	Quickly manually marking as read in a conversation moves the read marker around twice	MindLink Anywhere
FCF-7517	scroll to bottom button should always be there (when scrolled)	MindLink Mobile
FCF-7474	SfB mobile -> MLD fails to establish call	MindLink Anywhere
FCF-7479	Private file transfers sometimes fail	UCMA Connector
FCF-7397	Expand members arrow very hard to see in touch mode with manual mark as read	MindLink Anywhere
FCF-7263	SfBO sending HTML messages to native client inserts twice as many line-breaks as it should	SfBO Connector
FCF-6199	IE10 After sending a pasted message the text remain at the message input	MindLink Anywhere
FCF-7190	Sending partial characters does not cause the message to fail to send	MindLink Mobile
FCF-7259	Resetting a hashtag view loses scroll position	MindLink Anywhere
FCF-5584	Accessing quick reply when the hashtags list is open does not open the keyboard.	MindLink Mobile

FCF-7141	Personal Hotspot pushes down app navigation buttons	MindLink Mobile
FCF-7167	Sentence case uniformity in MLM	MindLink Mobile
FCF-5690	Livestream 'Message failed! will not show unless message viewed.	MindLink Mobile
FCF-6978	The cursor resets at the beginning after entering a url link	MindLink Anywhere
FCF-6752	Concurrent connections result in session termination	SfBO Connector
FCF-5842	Autocorrect highlight remains.	MindLink Mobile
FCF-6161	Dragging and dropping text has non-standard behavior	MindLink Anywhere
FCF-6235	Credentials invalid should not be a retryable state	MindLink Anywhere
FCF-5916	[Firefox] Default drag and drop on message input interferes with custom plugin	MindLink Anywhere
FCF-5708	Arabic text wraps differently in the input compared to conversation view	MindLink Anywhere
FCF-4876	Livestream does not always sync with favorites	User Services
FCF-5033	User's sip address is shown as the display name when the user has reached max followers	UCMA Connector
FCF-3293	Resuming a session shows failed messages as successfully sent	MindLink Mobile
FCF-4013	Composing a link for tel: or mailto: in MLM prepends http://	MindLink Mobile
FCF-3326	Messages with newlines are not matched correctly	UCMA Connector

1.9 Bug Fixes

The following bugs were fixed in this version (19.1) of the MindLink product suite.

ID	Details	Product
FCF-7596	No sound for notifications on Safari	MindLink Anywhere
FCF-7296	Android Auto-predict / auto-replace messes with hashtags	MindLink Mobile
FCF-7551	When there are unread items in folders at different depths the borders are duplicated	MindLink Anywhere
FCF-7620	SfB 2019 offline messages in inbox are not read when loading private chat history	MindLink Anywhere, MindLink Mobile
FCF-7614	Edge cannot call Firefox when behind a TURN server	MindLink Anywhere

FCF-7553	Tapping presence icon to close presence menu immediately reopens it	MindLink Mobile
FCF-7584	Contact cards of users in the members list do not show on IE10	MindLink Anywhere
FCF-7534	Set User Photo - 'File is not an image' error banner does not display when selecting a non image	MindLink Anywhere
FCF-7575	Voice error message when no microphone is connected does not show on IE11	MindLink Anywhere
FCF-7554	Folder Icons should be disabled when dock searching rather than disappearing	MindLink Anywhere
FCF-7555	Styling issue - Opening a story while in a chats search history has the back button hidden	MindLink Anywhere
FCF-7567	Can't start an IM conversation if audio is disabled	MindLink Anywhere, MindLink Mobile
FCF-7578	Conversation history not saving on SFB2019 when using MLD	MindLink Anywhere
FCF-7573	Uploading a profile fails on SFB2019 and trying to reupload freezes the browser	MindLink Anywhere

1.10 Reference Documents

For more information/documentation regarding the MindLink Product Suite, please visit:

<http://wiki.mindlinksoft.com>