



***GLINK***<sup>TM</sup>

***Glink 3270***

***for***

***iOS***

***User Guide***

<http://www.gar.no/>



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Glink 3270 for iOS, version 2.5.0  
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# Warranty

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While Gallagher & Robertson AS have made every effort to ensure that this software package should function as described, no warranty of any kind, express or implied, is made by us. Gallagher & Robertson AS shall not be liable for any damages, direct, indirect, special, or consequential arising from a failure of this program to operate in the manner desired by the user. Gallagher & Robertson AS shall not be liable for any damage to data or property that may be caused directly or indirectly by the use of this program. In no event will Gallagher & Robertson AS be liable to you for any damages, including lost profits, savings or other incidental or consequential damages arising from your use or inability to use the program, or for any claim by any other party. Any dispute arising in connection with this warranty will be settled under Norwegian law.

Gallagher & Robertson AS confirm their intention that the software should function as described and will make all reasonable efforts to ensure that errors in the software reported in writing to our office in Norway be corrected in future releases of the software.

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# ***Privacy policy***

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Glink does not collect, store, or transmit information about its users, nor usage of the application. The applications access the camera only when the user activates barcode scanning with the built-in camera. Storage is only accessed when the user imports/exports a configuration, print, or send debug-trace, scroll back-data, screen-data with e-mail. The applications also access Bluetooth settings and pair with Bluetooth devices like keyboards and barcode scanners.

# Introduction

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Glink 3270 for iPad/iPhone/iPod touch is an iOS-version of Gallagher & Robertson's best-selling terminal emulation program, Glink Professional Edition for Microsoft Windows. Glink for iPad/iPhone runs on Apple iPad, iPhone and Apple Mac devices with Apple M1/M2 chip running Apple's iOS operating system, providing access to a wide range of host systems.

Glink 3270 is used to access applications running on IBM and Bull host systems. Glink 3270 has emulations for the IBM 3270 terminals.

Glink brings you a high quality and proven emulator on your iPad, iPhone or Mac with M1/M2 chip devices.

## Features

- IBM3270 terminal emulation, all screen sizes
- TN3270 communication to host
- SSL/TLS support for secure communication
- SSH tunneling for Telnet protocol
- Multiple concurrent host sessions
- Support for program texts in German, French, Portuguese and Norwegian
- Configurable multiline toolbar with function keys and macros
- Configurable hotspots for function keys, option numbers and URLs
- Macro recording for auto-login and for assignment to toolbar or key
- Pop-up standard keyboard with support of international characters
- Tab/shift-Tab and arrow-keys supported on external Bluetooth keyboard
- Colors can be customized
- Multiple host configurations supported
- Export and import of configurations
- Supports Managed App Configuration, which allows users to configure Glink remotely through Mobile Device Management
- Optional password protected configurations
- Optional auto-connect at startup
- Optional use of double-tap as Enter/Transmit
- Configurable scrollbar buffer contains history of your host session
- Print or e-mail host print data
- Print or e-mail terminal emulation content or scrollbar buffer content

- Zoom and scroll
- Blinking attribute supported
- Blinking cursor supported
- Two finger swipe gesture to move cursor
- Tap and hold to open http:// or https:// URL in internal or external browser
- Tap and hold to open Mail with e-mail address on screen
- Barcode scanning with built-in camera supported
- Linea Pro and Infinea Tab barcode scanner/magnetic card reader support
- Socket Mobile barcode scanners connected in iOS mode (Bluetooth Accessory Protocol)
- Other Bluetooth barcode scanners like Opticon OPN2002 connected as external keyboard

## **Support**

You can contact Gallagher & Robertson (G&R) technical support by sending an e-mail to [support@gar.no](mailto:support@gar.no) or by using our contact form on our website.

Please include product name, version number and information about the device you are running the product on in addition to your question or problem description. It may also be useful for us to have a debug trace of your complete host session up to the problem. You can send an e-mail with the debug-content as an attachment directly from the debug screen.

## **How to purchase/order a Glink license**

Glink for iOS licenses can be purchased online on Apple App Store or in Apple Business Manager (ABM). For large quantities, contact us at [gar@gar.no](mailto:gar@gar.no) for a quote for private Glink Enterprise applications in ABM. Glink for Android can be purchased on the Google Play Store and G&R online web shop.

## **Delivery and Installation**

If you purchase Glink for iOS on Apple App Store, installation and licensing is handled by the Apples App Store app on your iOS device or in the Apple Business Manager store. You must be logged in to Apple App Store with the same account as you purchased the Glink app with

# Setup

If you are installing Glink for iOS for the first time, you have no sessions defined. Tap **NEW** to define a new session. Choose a session name, set the host address and the other basic options before tapping **SAVE** in the upper right corner. To configure other options tap **SETTINGS**, to connect to the configured host tap **CONNECT**. When in the Glink main screen, tap the menu icon in the upper right corner and then **Help** to learn more about the product. Help is also available from the menu icon in all settings screens, explaining how to use and set all options.

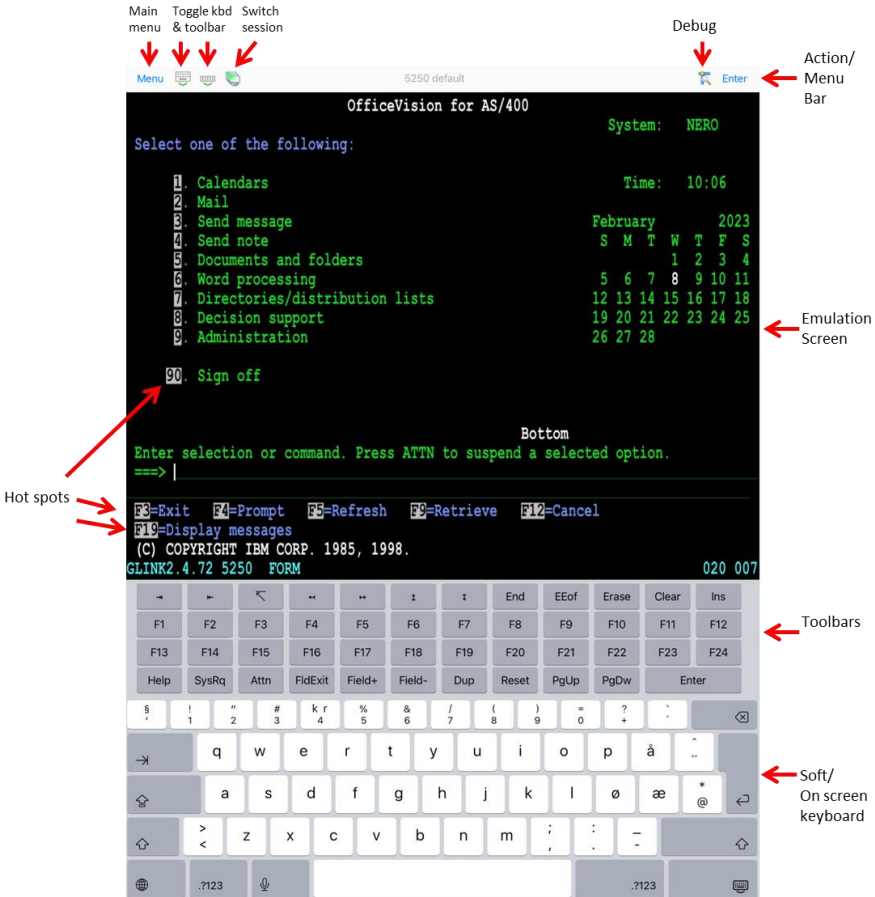
You will also find a description of all available options in this document.

## *The Glink emulator screen*

### *Action bar*

You will find the Glink action bar at the top row of the Glink screen. Here you will find the status of the current session (*Connected/Disconnected*), the *name* of the current session, a *Disconnect icon* that will disconnect the session if tapped, a *Toolbar toggle icon* that will bring the toolbar up/down when tapped, a *Keyboard toggle* that will bring the on-screen keyboard up/down when tapped, an (optional) *ENTER* button that will send Enter to the host when tapped, an (optional) *Debug icon* that will show the content of the debug buffer when tapped, a *Print icon* that will be displayed if Glink has received print and that will show the received print data if tapped. To the very right, you will find the *Menu icon* that will bring up the main menu when tapped. In **Menu -> Settings -> Screen options** you can configure *Use double tap* to toggle the display of the Action bar. The Action bar can initially be off or on and toggled with a double tap on the screen. This way you can free up more space to the Emulation screen.

## Emulation screen



The emulation screen will show the data sent from the host and typed/scanned by the user. In **Menu -> Settings -> Screen options** you can customize the look of the emulation screen. The most important options are the *Font size*, *Show toolbar*, *Limit screen view (x,y)* and the options for *Hotspots*.

The Font size can be set to a specific size between 6 and 36, but it can also be set to Auto or Fit screen. If you have a large display, you probably want to set it to Fit screen. With this setting Glink will select the best font size and stretch/squeeze it to fill the entire screen. If you select Auto, Glink will normally display all rows in

## **Introduction**

portrait mode and all columns in landscape mode, the rest of the host screen can be dragged into view by tap-and-drag left/right/up/down on the screen.

Show toolbar can be set to Auto, Multiline, Single-line and Off. In Auto mode Glink will switch between Single-line and Multiline, depending on the available space.

Limit screen view (x,y) is very useful if your host application only use the upper left part of the screen, for example 20 columns and 10 rows. Then you would set this parameter to 20,10 and maybe combine it with Font size Fit Screen.

In **Menu -> Settings -> Screen colors** you set the background color, foreground (text) color and you can adjust the colors themselves.

## ***Toolbars***

The toolbars are fully configurable. The toolbar is scrollable horizontally and you can have as many rows/bars and buttons as you want. In Multiline mode all rows are shown, while in Single-line mode only one row is shown at the time, but you can toggle between the different toolbars using the toggle-icon on the very left on the toolbar. You can also use the Toolbar toggle icon on the action bar to show/hide the toolbar. In Menu -> Settings -> Toolbar setup you can add, modify, remove and move (remove/paste) buttons and add/remove toolbars (rows) and adjust the button size.

## ***Soft/on-screen keyboard***

Glink can use any standard IOS keyboard available on the device. This means that you can switch between keyboards for different languages, default IOS keyboard or other keyboards.

## ***Physical keys and keyboards***

Glink supports physical keys on the device itself and external keyboards connected with USB or Bluetooth. All keys can be mapped to terminal functions and macros in Menu -> Settings -> Keyboard ->

# Getting started

---

## Create a new session

Glink always enters the *Sessions* screen at startup. Tap the *New configuration* button to define a configuration for your host.

Give your new configuration a name and type the IP address of your host system. The IP address may be a numeric address of the form 129.1.1.150, or a symbolic name (such as *www.gar.no*). If you need to connect to a port other than the default, this may be added to the end of the address, using a colon (:) to separate it from the rest of the address. For example, to connect to port 1311 you should specify 129.1.1.150:1311 or *www.gar.no:1311*.

If you are using the multi-emulation version of Glink, you can also choose terminal emulation and host communication protocol for the configuration in this screen. Tap *Save* when you are done.

Repeat the process to configure more host systems. For IBM and VT hosts you may now be ready to go, and if you select the session in the sessions screen a connection attempt will be made. For Bull host systems and some IBM hosts you need to configure Ggate/TNVIP/TN3270/TN5250 protocol options before you can connect to your host system. Select the configuration and tap *Menu > Settings* to enter directly into the configuration menus. If you try to *Connect* to the selected configuration and the connection fails, then you must go to *Menu > Settings* to correct or complete the connection parameters. This is also the place to go if you need to modify the IP address of your host system.

## Start a session

Tap *Menu > Sessions* to see the list of available configurations. Tap the name of a configuration to select it and connect. Glink displays the main screen and connects to the selected host. If a Connect macro is defined for this session, it will be executed.

## Getting started

The session menu list is displayed when Glink is started. In the *General options* in the Action bar drop down menu in the main screen you can configure Glink to auto connect to the first session in the list instead.

To run multiple sessions, select *New session* at the bottom of the Sessions screen under the *SESSIONS STARTED* label. If more than one session is configured, select the session to start.

## Switching session

If you have started more than one session, the session switch icon (multiple green screens) is displayed at the top bar, next to the keyboard icon. Tap this icon to see a list of active sessions. The current session has a check mark. The icon to the left of the name of the session shows the connection state, green for connected and red for disconnected. Tap a session name to switch to it.

You can also switch session by tapping a name in the Sessions started list in Menu->Sessions screen.

## Zoom and font size

Use two fingers to zoom in and out and one finger to scroll/move the screen. In Menu->Settings->Screen options you can change the initial Font size and Font style, Cursor type and configure 3D effect for input fields.

## Text size

The default value for a tablet device is to adjust the text size to match the screen size. To do that, the characters are stretched or squeezed.

The default value for a smaller device (phone) is to select a text size (font size) that is readable and, in most cases, suitable for the screen size.

Use zoom or scroll to see hidden parts of the display. The initial text size is set in Menu->Settings->Screen options->Font size.



# Keyboard

Glink uses the standard on-screen iOS keyboard. The keyboard is activated by tapping the *keyboard* icon next to the *Menu* button or the main screen close to the cursor position or an input field. In the latter case the cursor will be positioned in the tapped field. Tap the *keyboard* icon next to the *Menu* button or main screen outside input fields or on a different line than the cursor is positioned, to remove the keyboard. The keyboard can be configured to always be up in *Menu > General options*.

## External keyboard

When using an external keyboard, set the option Menu-> General options-> Keyboard up on. Glink will then be ready for keyboard input when connected to a host application (otherwise you have to tap at an input field first).

Glink support several keyboard shortcuts for function and control keys when using an external Bluetooth keyboard, see *Keyboard shortcuts* for a list.

Device buttons and external keyboard buttons can also be remapped, select Settings->Keyboard and then see *Keyboard mappings* button.

## Keyboard shortcuts

The default shortcuts for external keyboard are listed below. Glink also supports user defined key mapping. The listed shortcuts can therefore be remapped.

### Shortcuts for keyboards with function keys

For all emulations:

F1 to F12 : F1 to F12

For IBM emulations:

F13 to F24 : shift+F1 to shift+F12 or alt+F1 to alt+F12

### Shortcuts for keyboards without function keys

For IBM 3270 emulations the following shortcuts are defined:

F1 to F10 : Alt+1 to Alt+0  
 F11 to F20 : Ctrl+1 to Ctrl+0  
 F21 to F24 : shift+Ctrl+1 to shift+Ctrl+4

## Getting started

### Other shortcuts

|                 |                             |
|-----------------|-----------------------------|
| Escape          | : Escape                    |
| Tab             | : Tab                       |
| Backtab         | : Shift/Tab                 |
| Home            | : Alt+Cursor up             |
| End field       | : Alt+Cursor right          |
| Arrow keys      | : Cursor up/down/left/right |
| Connect         | : Alt+C                     |
| Disconnect      | : Alt+D                     |
| Break           | : Alt+B                     |
| New/next window | : Alt+N                     |
| Show this page  | : Alt+H                     |

### Keyboard mapping

Glink is set up with a default keyboard mapping. You may override the default mapping or add a mapping for a hardware button (key) on the device itself or a key on an external keyboard.

The list box displays the keys mapped if any.

Press the key or button to map (i.e. Volume up button). Select the keyboard icon button to bring up the soft keyboard if need.

Once a key is pressed, a new row is added. Select the **Map** button to map the key to a function or macro.

If the key you want to map is the last one of two input keys, select **No** for mapping the first key and **Yes** for the second one.

If a macro is selected, select the **Macro** button to define the actual macro.

Select the **Remove** option from the drop-down list to remove a key mapping.

## Toolbar

The toolbar can be configured to show a single-line toolbar with a *select* button to step through the toolbar lines or as a multiline toolbar to show all the toolbar lines. Even when the multiline toolbar option is selected, Glink will in most cases use the single-line toolbar to save space when the keyboard is up. The default value for this option is to use multiline toolbar for a big screen (for example tablet) and single-line for a small screen (for example phone).

The default toolbars differ from emulation to emulation, but in general there is one for cursor movements, one or two for function keys and one for other keys. All toolbars can be customized to your needs, and you can add macros to all of them with your own text on the buttons. The toolbar area becomes horizontally scrollable if there are more buttons defined than can be displayed on the screen. Go to *Menu > Settings > Toolbar setup* to customize your toolbar, or to *Menu > Settings > Screen options* to change the setting of the *Use multiline toolbar* option.

## Hotspots

Glink can be configured to create dynamic push buttons for screen text that refer to function keys, number options and URLs.

For example, if *F1* is part of the screen text, it will be highlighted as a push button and the function F1 will be assigned to it and executed when tapped.

Likewise, if *1=Search* is part of the screen text, the number **1** will be highlighted. When tapped, this number is added to the current cursor position and optionally followed by the *Enter* function to transmit it.

## Copy/Paste

Tap and hold to bring up a copy/paste popup menu. Tap and hold a word to select and copy a word, tap and hold the empty space area in front of the word to select and copy the rest of the line. Tap and hold an input field to paste to or copy from this field. To clear the clipboard, tap and hold an area of the screen where the rest of the line is empty.

In the Scrollback buffer, you can select and copy text in the same way as you for example do in the Safari browser.

The paste function may also be added as a button to your toolbar.

# ***Hyperlinks and mail addresses***

If URLs or mail addresses are displayed, long-tap a hyperlink or mail address to bring up a popup menu. For URLs you may display the content in Glink or in a browser app. If a mail address is selected, you get the option to send a mail to the addressee.

## ***Export and Import configurations***

You can export your current set of configurations for back-up purposes or to share them with other users. The export function is an option in the action bar drop down menu. You will be asked if you want to include Connect macros before you are taken to the Send Mail function with your configurations attached to the message.

The configurations are sent as a file-attachment named config.xxx, where xxx is either glinki, glink5250, glink3270 or glinkvt; depending on the App you are using. These filename-extensions are associated with Glink when you install Glink. This filename-extension is associated with Glink. This means that if you receive a Glink configurations file as an e-mail attachment and export it to the files system, you can import it into Glink by tapping the file. Glink will be started and inform you that you have received a new set of Glink configuration files. If you tap the *Install* button to install it, you will get a new set of configurations that will replace your current configurations. All your current configurations will be overwritten and lost.

The export and import functions allow administrators to prepare and customize configurations for a large group of users and distribute the configurations by e-mail, web-page, dropbox, sky-drive and other utilities that can receive files on the IOS device.

## ***MDM configuration support***

If Glink is deployed by a mobile device management (MDM) system, the Glink configuration can be completely controlled by the MDM system, making Glink ready for use without any need for configuration by the end user. See the *Glink MDM configuration parameters* section.

## Proxy server

If the network connection to your host is unstable and there is a risk of losing the connection to the host from time to time, you should consider running our *GlinkProxy application* on a server.

The GlinkProxy application runs on a Windows server that can be located near the host computer. It will allow the traffic from the mobile computers with Glink to be routed through the GlinkProxy server to the host. The GlinkProxy server will keep the connection to the host application even if the connection to the mobile computer is lost. When Glink re-connects, the session with the host application will resume as if the connection was not lost.

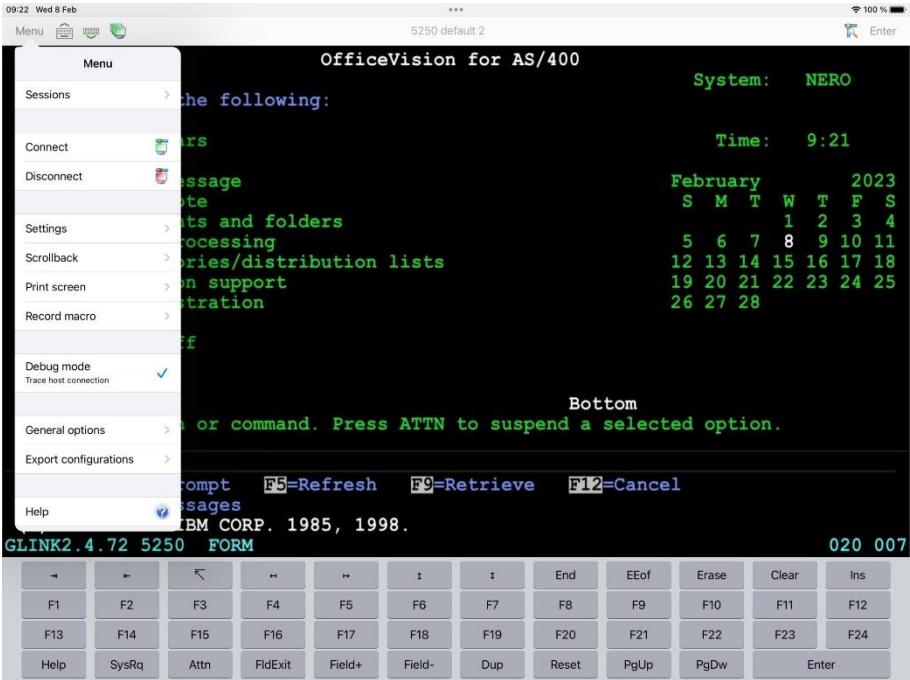
See the section about *The GlinkProxy Session Persistence Server*.

## Gestures

In the main screen Glink recognizes the following gestures:

- *Tap*  
If allowed by the emulation, moves the cursor to the position (normally within an input field)
- *One finger drag*  
Moves the screen content if larger than the screen size
- *Two finger drag*  
Moves the cursor
- *Two finger pinch zoom*  
Zooms the Glink screen
- *Double tap*  
Resets zooming or optional does the send (Enter) function
- *Tap and hold*  
Shows copy/paste options

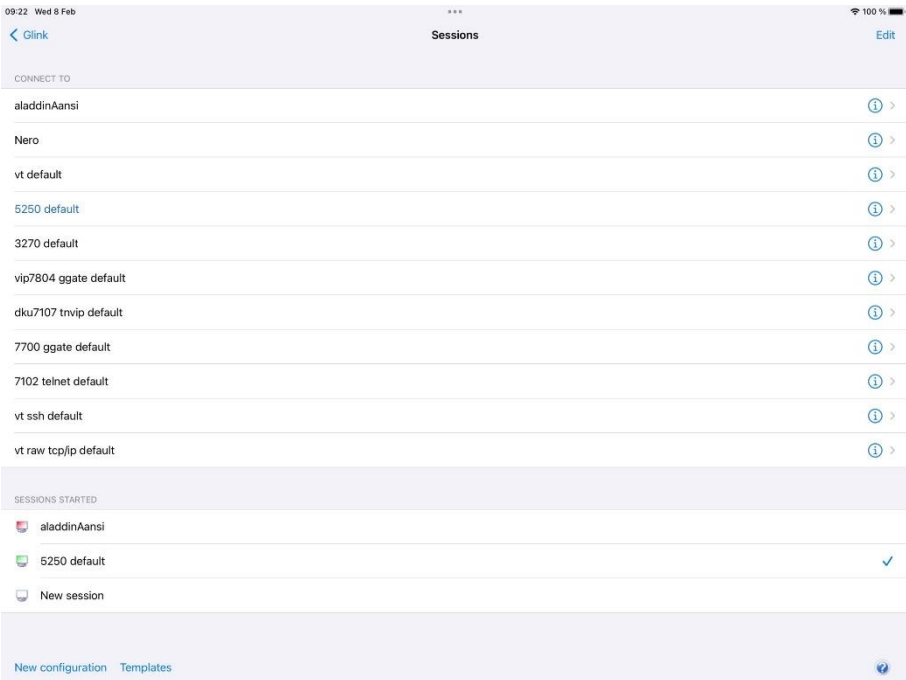
# Menu



The menu in the main emulator screen has the following choices:

- Sessions
- Connect
- Disconnect
- Settings
- Scrollback
- Print screen
- Record macro
- Debug mode – trace host connection
- Print logging (VT, ANSI, VIP, DKU, 7700, 7102)
- General options
- Export configurations
- Help

# Sessions



The Sessions screen allows you to change the current host session and add new host configurations. Most parameter settings are per session. The current configuration is displayed in blue. By tapping Settings in the Menu, you can change the configuration parameters for that session. By tapping a different session than the one that has a check mark, you can switch the main screen to this session.

## Connect

Tap here to connect to the host specified in the current session configuration. If a Connect macro is defined for this session, it will be executed.

## Disconnect

Tap here to disconnect the current session.

# Settings

Tap here to modify configuration parameters for the current session. Below you see the Settings screen for a Glink 5250 session.



## Scrollback

Tap here to enter the Scrollback buffer. Here you will see all the data that has scrolled off the top of your main screen and all the forms that you have accessed since you connected the current Glink session, provided that the size of your buffer is big enough. You configure the Scrollback length (in pages) in *Menu > Settings > General*. The content of the scrollback buffer can be printed or sent as an e-mail attachment and you can mark and copy selected text. If text is marked when you tap the *Mail* or *Print* button, only the marked text will be sent/printed. Tap the *Glink* button to return to the main screen.



## Print screen

Tap here to print or e-mail the current screen content. It can be printed/e-mailed either as text or as a JPEG image. Tap the *Glink* button to return to the emulation window.

## Record macro

Tap here to record a macro. Before you tap the *Start recording* button to start recording, you must choose whether you want to record a *Toolbar macro* that you will assign to a button on the toolbar (default) or if you want to record a *Connect macro* that will be executed every time you connect this session to the host, or if you want to record a *Keyboard macro* that you want to assign to a physical key. The *Connect macro* is typically used to logon on to the host, start the desired host application and position the user in the desired startup form. *Toolbar macros* and *Keyboard macros* are typically defined for frequently used operations to avoid time consuming navigation and typing.

When recording a macro, you can use the *Pause* button next to the *Enter* button to specify that you want to wait for user input or that the execution of the macro should pause a number of milliseconds at this stage. This is useful if the host unlocks the keyboard and allows keyboard-/macro-input before it has completed its output to the terminal. User input can be collected at macro startup or at the stage where the input is required.

When you are at the end of the macro function you wanted to record, you go to *Menu > Record Macro* and assign a button text and tap *Save recording* or press a key that you want to map the recorded macro to. The macro will now be saved to the current toolbar or to the key you pressed. You can move it to a different toolbar from *Menu > Settings Toolbar setup*. If you made a typing error during the recording, you must tap *Cancel* in *Menu > Record Macro* to delete the recorded macro and go back to the main screen. *Toolbar macros* are removed when you remove their buttons from the toolbar. *Keyboard macros* are removed when you remove their keyboard mapping from *Menu > Settings > Keyboard mapping*. To remove a *Connect macro* you first must tap *Connect macro* in *Menu > Record Macro*, then tap *Remove connect macro*. If you want to define a completely new *Connect macro*, you now tap the *Start recording* button. If you don't tap *Remove connect macro* before you tap the *Start recording* button, you will extend the current *Connect macro*.

## Menu

### ***Pause the macro***

At any point during the macro recording sequence, you can specify that the execution of the macro can be suspended for either user input or for a time interval.

### ***Wait for user input***

#### **Header text**

Specify the prompt value.

#### **Ask user at macro start**

The user is requested for input either at startup or at the stage where the input is required.

#### **Password**

If checked, the input field is set as a password entry field.

#### **Input value**

You can also specify an input value that is added to the current screen but not recorded. For example, if a password is requested, your password should not be recorded if recording is to continue.

### ***Wait for a time interval***

Specify the number of milliseconds the macro should be suspended at this stage.

## ***Debug mode***

Tap here to enable/disable *Debug mode*. In this mode all data sent to and from the host is written to a Debug screen. When enabled, you will see a *Debug* icon at the top right of the screen, next to the *Enter* button. Tap the *Debug* icon to go to the Debug screen. The content of the debug screen can be printed or sent as an e-mail attachment, and you can mark and copy selected text. If text is marked when you tap the *Mail* or *Print* button, only the marked text will be sent/printed. Tap the *Glink* button to return to the main screen.

## ***Debug***

When *Debug mode* is enabled all data sent to and from the host is written to this Debug screen, and you will see a *Debug* icon at the top right of the screen, next to the *Enter* button. Tap the *Debug* icon to go to the Debug screen. The content of the debug screen can be printed or sent as an e-mail attachment, and you can mark and

copy selected text. If text is marked when you tap the *Mail* or *Print* button, only the marked text will be sent/printed.

You enable the text-marking feature by holding a finger on the screen until the magnifier appears. When you release the finger, you will have a start- and end-marker that you can move to the desired positions.

Tap *Clear* to clear the debug screen.

Tap *Print* to Print the debug screen. If text is marked when you tap the *Print* button, only the marked text will be printed. If no text is marked, you are allowed to select a Page Range before you print. You must select a printer and how many copies to print before tapping the *Print* button.

Tap *Options* to set Print options, like *Font size* and *Page orientation*.

Tap *Mail* to Mail the debug screen. If text is marked when you tap the *Mail* button, only the marked text will be sent. The debug text is sent as a file-attachment named debug.txt.

Tap *Mail config* to Mail your set of configurations to yourself for back-up purposes or to someone else for sharing. The configurations are sent as a file-attachment named config.xxx, where xxx is either glinki, glink5250, glink3270 or glinkvt; depending on the App you are using. When you tap *Mail config*, you will be asked if you want to include Connect macros (if you have any) before you are taken to the Send Mail function with your configurations attached to the message.

Tap *Arrow-up* icon to position at the start of the Debug buffer.

Tap *Arrow-down* icon to position at the end of the Debug buffer.

Tap the *Glink* button to return to the main screen.

## ***Print logging***

Tap here to toggle this option. When enabled a check mark is shown and all sent and received data is logged/captured to the print buffer.

**Not available for Glink5250 and Glink3270**

## ***General options***

These options are common for all the sessions defined.

### ***Never Auto-Lock when connected***

When selected, this option disables the IOS "sleep" setting when Glink is the active (visible) app and is connected to the host application.

### ***Toolbar - Click on keypress***

|                |               |
|----------------|---------------|
| <i>Off</i>     | No click      |
| <i>Sound 1</i> | Click sound 1 |
| <i>Sound 2</i> | Click sound 2 |

### ***Show iOS status bar***

The iOS status bar is by default always displayed at the top of the screen. If you prefer to use this space for the emulation screen in Glink, you can turn off the iOS status bar so that it is never displayed or only displayed in Portrait mode.

This option has no effect for versions prior to iOS 7.

### ***Keyboard up***

*Default*

Glink will show the keyboard when you click at an input field and hide it when you click outside an input field.

*On*

This option will always show the keyboard. You can still hide the keyboard with the keyboard button located at the toolbar.

*Off*

Keyboard appearance will be controlled by the keyboard button only.

## ***Key repeat***

When selected, this option enables you to repeat a keystroke multiple times without pressing the key more than once (external/physical keyboard only).

## ***Auto-connect session at startup***

Normally Glink displays the Session screen at startup. Use this option if you want to skip the Session screen and instead connect to the first session defined in the Session screen.

Please note that you can reorder the session list by doing a long press at a entry in the session list, and then move the entry by dragging it when a rectangle is shown around the entry.

## ***Password - Protect Settings***

This option prevents users from changing or viewing the configurations. The password is required for the functions, *Settings*, *General options*, *New configuration* function and *Export configurations*.

## ***Export configurations***

Use this function to export your configurations by mail for back-up purpose or for sharing. The configurations are sent as a file-attachment named config.glinki You will be asked if you want to include Connect macros (if you have any) before you are taken to the Send Mail function with your configurations attached to the message. To import the configurations, send it to your device by mail and select the attachment.

## ***Help***

Tap here to enter the online help pages.

## ***Connect icon (Green monitor)***

Tap here to connect to the host specified in the current session configuration. If a Connect macro is defined for this session, it will be executed.

## ***Keyboard icon***

Tap here to bring the on-screen keyboard up/down.

## ***Toolbar icon***

Tap here to bring the on-screen toolbar up/down.

# Settings - Communication

## TN3270 options

The screenshot shows the 'TN3270 options' settings screen. At the top, the status bar shows the time as 09:39 on Wednesday, February 8th, with a battery level of 100%. The title bar shows a back arrow, 'Settings', and 'TN3270 options'. The settings are organized into sections:

- Server address:** A text field containing 'nero.gar.no'.
- Required:** A light blue header bar.
- 3270 model:** A text field containing '3279-2 24x80 color, basic data stream'.
- LU name:** An empty text field.
- Use Extended TN3270:** A toggle switch that is turned on (green).
- Send Associated LU:** A toggle switch that is turned off (grey).
- Keep alive type:** A dropdown menu showing 'TCP'.
- Keep alive interval:** An empty text field.
- SECURE SOCKETS:** A light blue header bar.
- Use secure sockets - SSL:** A toggle switch that is turned off (grey).
- Authenticate server certificate:** A toggle switch that is turned off (grey).
- File name client certificate:** An empty text field.
- Password client certificate:** An empty text field.
- AUTO-LOGIN:** A light blue header bar.
- Login with:** An empty text field.
- Password:** An empty text field.

TN3270 is a variation on the Telnet protocol and is used by the IBM3270 emulation to connect to IBM hosts over a TCP/IP network. You can either connect directly to the host, if it's running a Telnet server, or via a TN3270 gateway.

## Server address

The Server address is normally the TCP/IP address to the server/gateway you connect through to reach the host, for example a G&R Ggate server (using native Ggate

## Settings – Communication

protocol, TNVIP, TN3270, TN5250 or Telnet), a Bull TNVIP server, an IBM TN3270 server, an IBM TN5250 server or the host itself.

The address may be a numeric address of the form 129.1.1.150, or a symbolic name (such as www.gar.no).

If you need to connect to a port other than the default, this may be added to the end of the address, using a colon (:) to separate it from the rest of the address. For example, to connect to port 1311 you should specify 129.1.1.150:1311 or www.gar.no:1311.

The default ports in Glink are:

G&R Ggate native protocol    30841  
Telnet, TNVIP, TN3270, TN5250    23

Note that the Bull TNVIP servers on Unix/Linux or Windows generally use non-standard ports, normally 7323, and you must add this to the IP address.

### **IPv6 address**

If an IPv6 address is specified and you have to specify a port number, use the following syntax:

[IPv6 address]:port

for example

[2001:db8:85a3:0:0:8a2e:370:7334]:673

### **3270 model**

This option is provided so that you may select the appropriate 3270 model. This will be used to set the screen size and to provide terminal identification to the host machine where appropriate. You may need to select an extended type (one of those with an E extension) to enable use of extended attributes from the host. The base model number determines the alternate screen size the host may use, where

327x-1 is 16 rows of 80 columns  
327x-2 is 24 rows of 80 columns  
327x-3 is 32 rows of 80 columns  
327x-4 is 43 rows of 80 columns  
327x-5 is 27 rows of 132 columns  
3287-1 is printer



If you select a printer type, you will probably also need to specify an LU name and select extended telnet mode in the host settings.

### ***LU name***

This option allows you to choose a specific LU name. It is only functional when you connect to a TN3270 server that has support for the option and should otherwise be left blank.

### ***Use Extended TN3270***

When this option is enabled, the program will use the extended (RFC1647) telnet protocol to talk to the TN3270 server (this will obviously only work if the server supports RFC1647). This protocol allows for more flexible configuration, selection and use of the TN3270 session.

### ***Send Associated LU***

This option should be enabled when the specified LU name for a printer (3287-1 type) is the name of a screen device which has been defined with an associated printer on the TN3270 server. The option is only available when you use extended TN3270 to talk to the server, and when an associated printer has been defined for the screen in question.

### ***Keep alive***

#### ***Keep alive type***

There are two keep alive types, **TCP** and **Telnet**. The TCP type is handled by the OS and the Telnet type is handled by Glink.

#### **TCP keep alive**

Specifies how often TCP sends keep alive probes. TCP sends keep alive probes to verify that an idle connection is still open. By default, keep alive probes are sent after 2 hours of inactivity or not at all. It depends on the version of the operating system. The number of keep alive probes that are sent is also system specific.

The keep alive parameter allows you to set both the keep alive time and the keep alive interval in seconds. The format is **time, interval**

## Settings – Communication

For example:

1200, 5

Specifies that keep alive probes will be sent after 20 minutes of inactivity, and then repeated every 5 seconds until the max number of keep alive probes has been reached.

1800

Specifies that keep alive packets will be send after 30 minutes of inactivity, and then repeated every second until the max number of keep alive probes has been reached. One-second interval is the default value.

### **Telnet keep alive**

Specifies how often Glink sends a telnet No Operation Packet (NOP). In this case only an interval can be specified in seconds. The format is **interval**

For example:

60

Specifies that a telnet NOP will be sent after one minute of inactivity, and then repeated every minute of inactivity.

## **Secure sockets**

### ***Use secure sockets - SSL***

Check this option to use a secure connection to the host. The host side must of course support this type of connection. The default value for the port number is 992 (Ggate 30851). If the host side uses another port number, specify the port number in the host address field, for example:

```
myhost.com:842
```

When connected, a lock icon will be shown in the toolbar. Tap the icon to view the host certificate information.

#### *IPv6 address*

If an IPv6 address is specified and you have to specify a port number, use the following syntax:

```
[IPv6 address]:port
```

for example

```
[2001:db8:85a3:0:0:8a2e:370:7334]:673
```

### ***Authenticate server certificate***

Glink verifies that the server certificate is from a Trusted root certificate authority in order to accept the SSL connection.

### ***File name client certificate***

Specify the name of the client certificate if the server needs to validate the Glink client.

#### *Android version only*

If the configured client certificate file is not found, Glink will look for the file in the auto import directory. If still not found, the user gets the option to import a client certificate file using the configured file name.

#### *iOS version only*

If the client certificate is not found, the user will get a warning message that the client certificate file must be imported.

See also:

*How to import a PSKC #12 certificate (.p12 file)*

### ***Password client certificate***

Supply the PSKC #12 password if defined.

### ***How to import a private key file***

Glink will handle files with *.glinki* as the file name extension, i.e *myfile.glinki*. One way to import it is to send it as a mail to your device with *myfile.glinki* as an attachment. Click on the attachment and Glink will ask if you want to import it as a new configuration (your configuration will not be overwritten in this case).

The *myfile.glinki* must have the following format:

```
[file:my_pk_file]
Add the content of the private key here...
```

Glink will create a file with the file name *my\_pk\_file* with the content supplied. In the Telnet or SSH configuration dialog box, enter *my\_pk\_file* in the *Private key file* field.

### ***Auto-login***

If both the parameters below is specified, Glink will try to login to the host application.

Please note if a connect macro is defined it will be ignored.

#### ***Login with***

Specify the login string.

#### ***Password***

Specify the password.

#### **Note**

A *Tab* is performed after the Login string and a *Transmit* is performed after the password. If the parameter includes a function string at the end, the default function will be ignored. The syntax for the *Tab* function is `^"f58"` and for the *Transmit* function is `^"f44"`

The example shows how to do a *Transmit* after the name instead of a *Tab* function.

```
Login with:  MyName^"f44"  
Password:   MyPassword
```

### ***External validation***

This option allows you to configure an external app for access validation.

In Glink at connect time:

- Start a validation app if not already started
- Send a broadcast to this app to request validation.
- Listen for Broadcast reply from the started app.

Validation app:

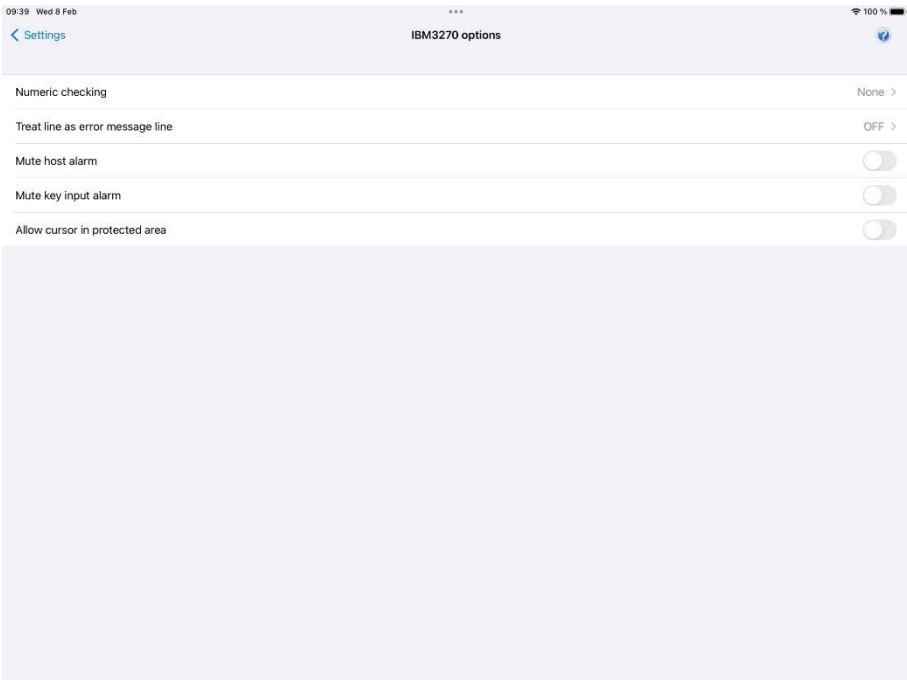
- It will start a Broadcast receiver at startup.
- When a request is received, do validation and reply with a positive or negative reply broadcast to Glink.

Please contact G&R for more information.

# Settings – Emulation

---

## IBM 3270 emulation options



### ***Numeric check***

This option specifies what type of numeric checking should be done by the emulator when the host defines an unprotected field as being numeric. There are four possible values that can be set:

|          |   |
|----------|---|
| None     | No numeric checking is done. This is equivalent to a Type-writer keyboard selection in some emulators.  |
| Strict   | Numeric checking is enforced, and only numeric digits, decimal point, comma, and minus sign may be entered in the unprotected field.  |
| Emulator | Same as above but also allows plus sign (this is the numeric checking that is implemented in several other emulators).  |
| Relaxed  | Allows all the above, also uppercase letters and shifted numerics (for example "!" and "#"). This is equivalent to a Data Entry keyboard selection in some other emulators. |

The default setting is None, i.e., numeric checking is not performed.

### ***Treat line as error message line***

Text from the host at the line specified will be regarded as an error text and will be displayed at the status line together with a notification sound. Text starting after position 10 at this line will not be regarded as an error text.

### ***Mute host alarm***

Ignore alarms issued by the host application (The volume control and alarm sound is configured in the iOS/Android Settings).

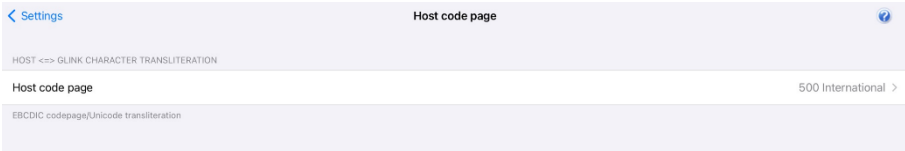
### ***Mute key input alarm***

Ignore key input error alarms (The volume control and alarm sound is configured in the iOS/Android Settings).

## ***Allow cursor in protected area***

Normally if you point outside an input field, the cursor is not moved to this location. Instead, the keyboard, if displayed, is hidden (removed). If this option is checked, the cursor is instead moved to the protected location without changing the keyboard state.

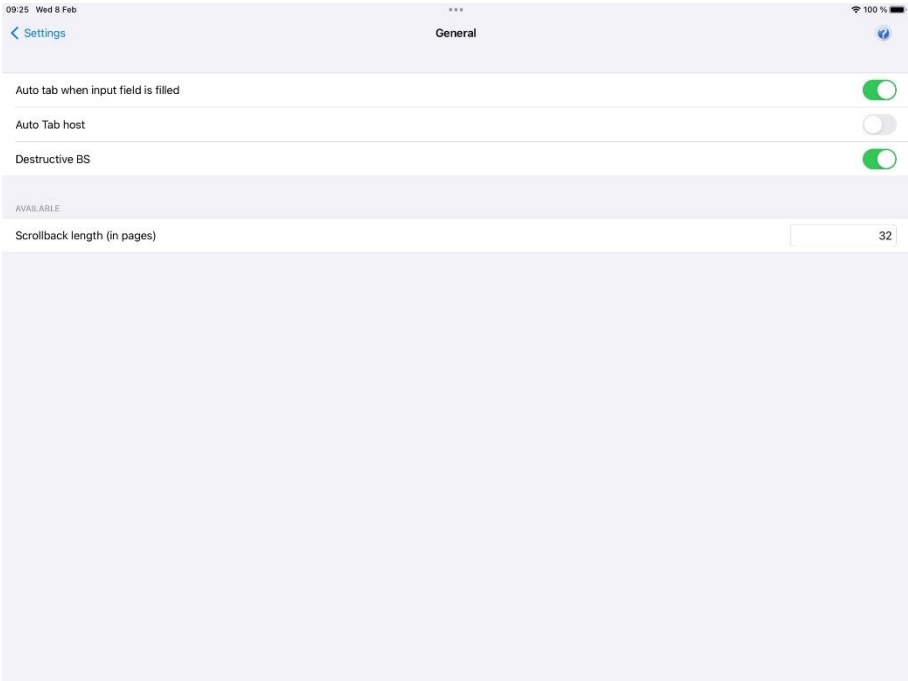
## ***3270 Transliteration – Host code page***



The IBM host is set up to use an EBCDIC code page. Glink needs to know which code page is used by the host to convert EBCDIC characters to Unicode characters used internally by Glink.

| <b>Code page</b> | <b>Euro</b> | <b>Countries</b>  |
|------------------|-------------|---|
| 037              | 1140        | Australia, Brazil, Canada, New Zealand, Portugal, South Africa, USA |
| 273              | 1141        | Austria, Germany  |
| 1025             |             | Cyrillic  |
| 277              | 1142        | Denmark, Norway   |
| 278              | 1143        | Finland, Sweden   |
| 280              | 1144        | Italy   |
| 870              |             | Latin 2   |
| 284              | 1145        | Latin America, Spain  |
| 285              | 1146        | Ireland, United Kingdom   |
| 297              | 1147        | France  |
| 500              | 1148        | International   |
|                  | 1149        | Iceland   |

# 3270 General Options



## ***Auto Tab when input field is filled***

If this option is selected, then an automatic tab to the next field of a form will be performed as soon as the last character of the field has been typed. If not selected, then no action will be performed until either the Tab key or the next character is entered.

## ***Auto Tab host***

This option controls whether automatic tabbing (move to the next field of the form when the last character of a field is entered) should also be applied to input coming from the host machine. The normal Glink action here is not to perform such automatic tabbing for host data even when local auto-tab is set. The option may be required for host applications developed using emulators that assume that auto-tabbing applies equally to local and host data.



## ***Destructive backspace***

Effective only for modes where characters are being echoed locally by the emulator, this option specifies that the backspace key should replace the character backspaced over with a space character. Note that in insert mode backspace will in any case delete such characters and move that part of the line following the cursor one character to the left.

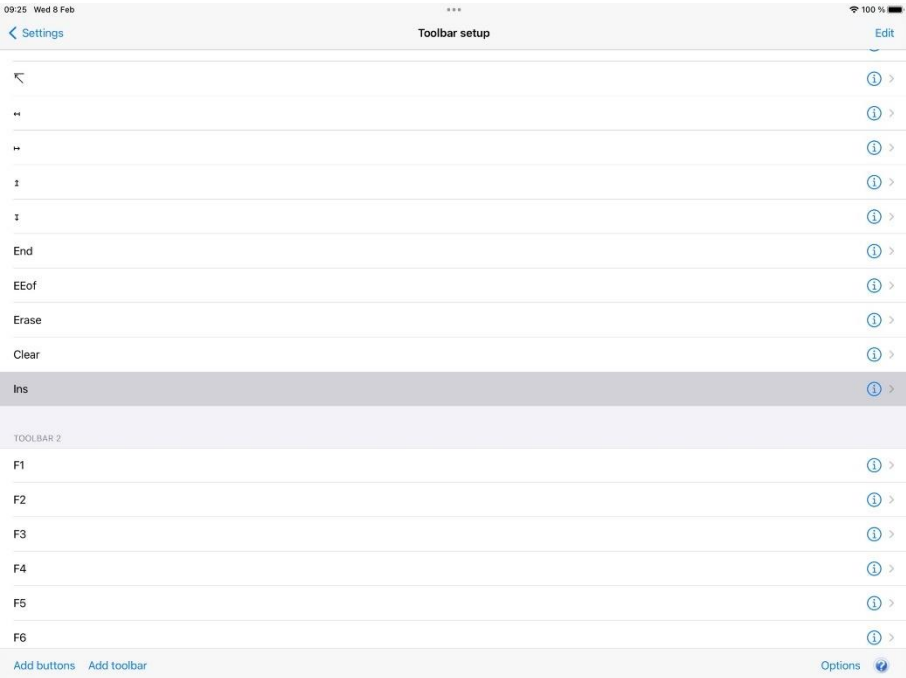
## ***Scrollback length***

This option lets you specify the maximum number of scrollback pages saved. Note that each extra page of scrollback you configure will cost extra memory allocated.

# Settings – Screen

---

## Toolbar setup



## Edit

The Edit button allow you to either delete buttons from the toolbars or to move a button to a new position, either within the same toolbar or to a different toolbar. Tap the stop icon and confirm by tapping the Delete button to delete a button. Tap, hold and drag the list-icon on the button you want to move, to its new position. Tap Done to exit Edit-mode.

## Add buttons

This option allow you to add new buttons to the current position in the current toolbar, so before tapping Add buttons you have to select the toolbar and toolbar-position where you want to insert the new toolbar button(s). From the Add buttons screen you can select one or more buttons to be inserted. The button can either be used to activate a predefined function (key) or a Macro. Tap Save when you have completed your selection, or tap Cancel to return to the Toolbar setup screen. If you decided to add a Macro, tap the detail-icon on the righthand side of the new button with text Macro to configure the macro to be executed. See Macro string section below on how to define a macro string.

Note that the simplest way to define a Toolbar macro is to use the macro-recording feature available from Menu > Record macro. See the help page for Record macro

## Add toolbar

This option allow you to add new buttons to a new toolbar. From the Add toolbar screen you can select one or more buttons to be inserted. Tap Save when you have completed your selection, or tap Cancel to return to the Toolbar setup screen.

## Options

The size of the toolbar buttons be changed, both the width and the height.

### Toolbar options

#### Increase button width with scaling factor

The original button width can be adjust with a scaling factor. A factor of 2.0 will double the size. Try a factor of 1.2 to increase the width slightly.

Please note that the width for an individual button can be doubled by preceding the button text with a \* (star). For example, if the button text is modified from *Enter* to *\*Enter*, the button text shown is *Enter* but the button width is doubled. If the button text starts with **\*\*Enter**, the button width will be tripled and so on.

#### Increase button height with scaling factor

The original button height can be adjust with a scaling factor. A factor of 2.0 will double the size. Try a factor of 1.2 to increase the height slightly.

## Settings – Screen

If a parameter format error is detected, the size is set to the original size.

### ***Toolbar 1-n buttons***

Each button in a toolbar can be modified by tapping the detail-icon on the righthand side. You can modify this button-position to perform a different function by tapping the Button selected line. You can also modify the text displayed on the button for this particular function by editing the Button text field. If the Button selected is a Macro, you have to define the Macro string to be executed when the button is tapped.

### ***Button size***

This option allows you to adjust the width and height for all the toolbar buttons with a scaling factor (from 0.2 to 5.0).

Please note that the width for an individual button can be doubled by preceding the button text with a \* (star). If the button text starts with \*\*, the button width will be tripled and so on. For example, if the button text is modified from Enter to \*Enter, the button text shown is Enter but the button width is doubled.

### ***Macro string***

When entering a macro string, in addition to plain text, there are several conventions, all of which are signaled using the caret (^). If you wish to enter a 'real' caret, then you must type it twice (^ ^).

Control characters may be entered using the normal convention with a letter following the caret symbol. For example, a return is ^M and a line feed is ^J.

You may also send specific ASCII codes in hexadecimal, decimal, or octal form by following the caret with a \$, #, or & character, and the desired code:

- ^#ddd decimal specification
- ^&ooo octal specification
- ^\$hh hexadecimal specification

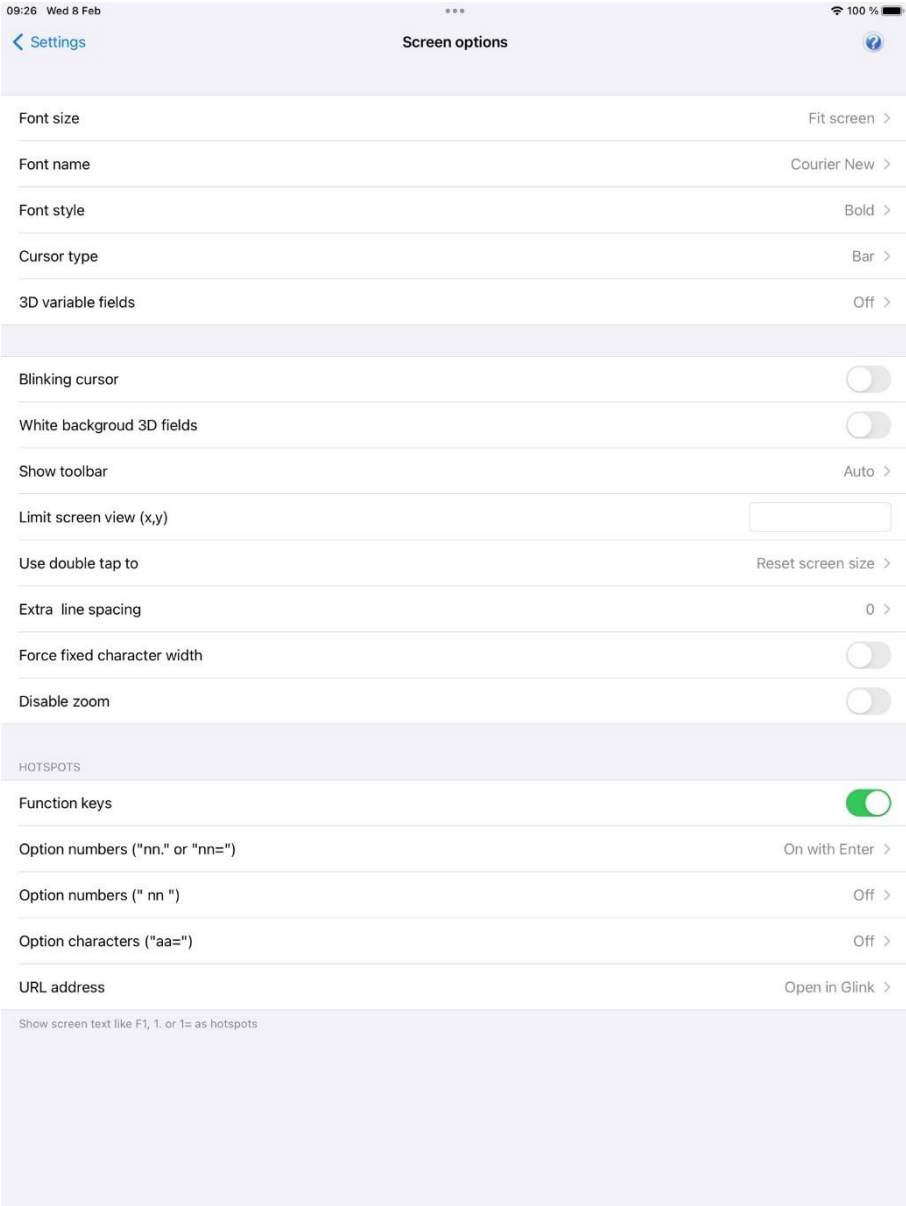
Note that decimal and octal codes must be 3 digits and prefixed with 0 if it is 2-digit codes.

Transmitting the string you have defined on a macro can be awkward if you are working in multiple environments where you sometimes need a CR terminator and sometimes need an ETX or EOT. To do this transparently, use the conventional form ^! (caret + exclamation mark). The correct line terminator will be sent depending on the mode in which the emulator is operating. Note that if a macro contains multiple transmits then the macro execution will be suspended on each transmit and resumed when the host has responded. This functionality is only reliable for host connections with a 'turn' mechanism that signals when the host response is finished (DSA, Ggate and TNVIP).

Function codes (for those using synchronous interfaces) may be sent using the form ^=x', where 'x' is the function code you wish to be sent with the next message to be transmitted.

If the last character in the macro string typed in is '^', it will be ignored. This can in fact be useful: in that trailing spaces are deleted from the input you type; you can use an appropriately placed '^' at the end of the string to ensure that required trailing spaces are actually included. For example, entering 'ABC ^' will provide a trailing space after the 'ABC'.

# Screen Options



## **Font size**

This option defines the initial font size to be used when Glink is started. If a large font is selected, some part of the screen display may not be visible without scrolling to it.

The *Auto* value selects a font size that is readable and, in most cases, suitable for the screen size.

The *Fit screen* options adjust the Glink display to fit the screen size. To do that, the characters will be stretched or squeezed.

## **Font name**

This option defines the name of the font used in the emulator window. Only mono spaced fonts are available.

## **Font style**

Here you may choose the display style for your chosen font (*iOS only*).

## **Cursor type**

The cursor indicates the current screen position for the emulator (as opposed to the mouse cursor, which operates independently). This option is used to choose one of the three available cursor types — a block cursor, a horizontal line cursor, or a vertically bar cursor.

## **3D variable fields**

This option enables use of 3D effects for variable fields for those emulations that support the use of forms. You have four options, "On without attributes", "On with attributes", "On without underline" and "Show as underline". Normally a 3D field has white background, but you may keep the initial attributes set by the host for those input fields. The attributes can for example be specific background color or underlined text.

### ***Blinking cursor***

Here you may choose the cursor to blink. Please have in mind that a blinking cursor requires more resources, so screen updating, and scrolling might look better without it.

### ***White background 3D fields***

This option forces the background of a 3D variable field to always be white regardless of the default background color selected.

Similar, if the host specific sets the background color for an input field, the background color will still be white.

if you want the foreground color to always be black, select the 3D variable fields option "On without attributes".

### ***Show toolbar***

The toolbar can be shown as a single-line toolbar with a toggle button to switch between the toolbars defined or as a multiline toolbar where all the toolbars defined are shown. If the multiline toolbar option is selected, Glink will still use the single-line toolbar to save space when the keyboard is up.

The *Auto* value means *Multiline* for a big screen (for example tablet) and *Single line* for a small screen (for example phone).

The *Off* value means that the toolbar is not shown by default.

Please note that you can change the number of buttons and the number of toolbar lines with the Toolbar setup function.

### ***Limit screen view (x,y)***

If a host application uses just a part of the screen, the screen view may be decreased to match this size. The right and lower part will just be cut off and not visible. For example, if the parameter is set to "40,20", only the first 40 characters of each line up to line 20 will be visible. This parameter has no impact on the emulation itself. "x" limits only the number of columns, "y" limits only the number of rows.



## ***Use double tap to***

This option specifies the action performed when double tapping the Glink screen, either *Reset screen size*, *Perform Enter* or *Toggle Menu bar On/Off*.

The *Reset screen size* sets the initial screen size, the *Perform Enter* does an Enter (Send) command and the *Toggle Menu bar On/Off (On)/Toggle Menu bar On/Off (Off)* toggles the menu bar *On* or *Off*. In the latter case, the menu bar is initially hidden. When the menu bar is hidden, it can be handy to add an Enter button to the toolbar (acts as a connect command if the session is disconnected)..

## ***Extra line spacing***

Add extra space between the lines (gives more space for hotspots if used). A negative number will decrease the standard line spacing.

## ***Force fixed character width***

Glink uses a fixed font, but for some special characters and symbols, the width may still vary. This option forces Glink to update the screen character by character at the correct position. Might slow down the screen update (Android option only).

## ***Hotspots***

The hotspot options tell Glink to search for specific keywords on the screen and highlight these as push buttons and assign a function to each of them.

For example, if the F6 text is on the screen, it will be highlighted as a push button and the function F6 will be assigned to it and executed when tapped.

If Option numbers is enabled, text like 2. or 2= will be searched for and highlighted (the number only). If this hotspot is tapped, the number is added at the current cursor position. Optionally it can be followed by the Enter function to transmit it. Numbers larger than 99 is not converted to hotspots.

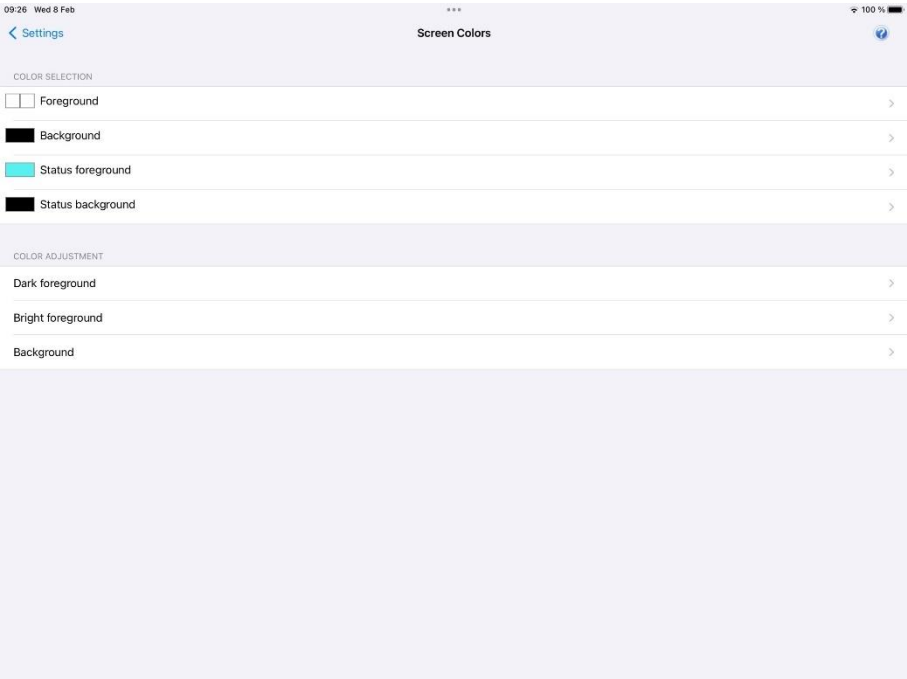
If the next Option numbers is enabled, numbers that are both proceeded and followed by a space will be searched for and highlighted. If this hotspot is tapped, the number is added at the current cursor position and optionally followed by an Enter function to transmit it. Numbers larger than 99 is not converted to hotspots.

## Settings – Screen

If Option characters is enabled, characters followed by the = character will be highlighted. If this hotspot is tapped, the character(s) is added at the current cursor position and optionally followed by an Enter function to transmit it. For example, S will be regarded as a hotspot for the text S=Search.

If URL address is enabled, URLs will be highlighted. If this hotspot is tapped, Glink will either open an external browser or use the built-in browser in Glink to display the URL content.

# Screen Colors



## Color selection

The screen color options allow you to choose the default foreground and background colors for the emulator screen and for the status line.

The default name of the colors available are listed together with icon. If the color name does not match the color icon, the color has been adjusted.

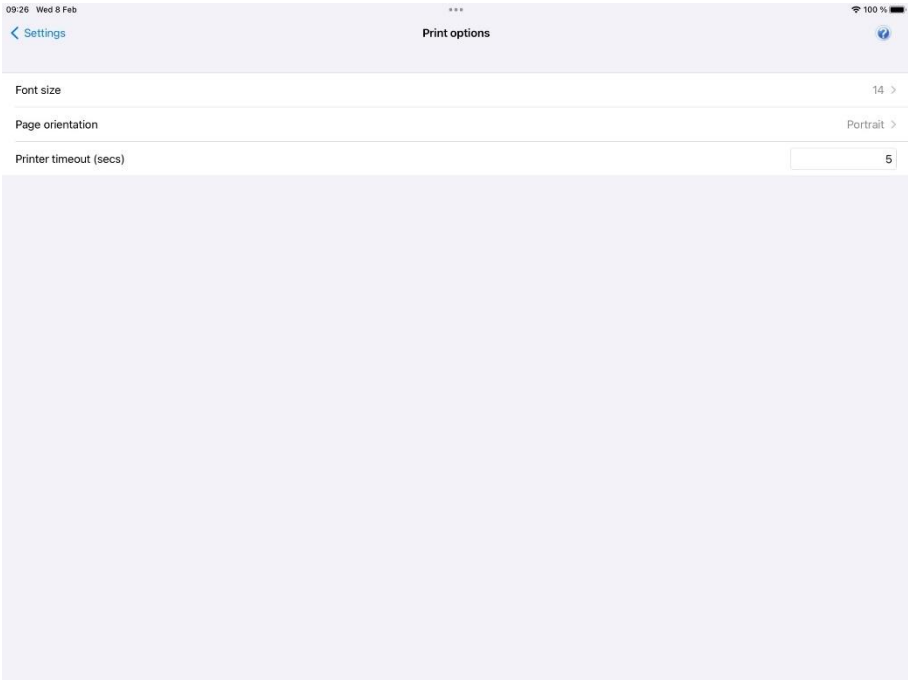
## ***Color adjustment***

The color adjustment options allow you to adjust the 8 dark plus 8 bright foreground colors and the 8 background colors. The original color's names are displayed in the color adjustment display. If a color has been adjusted, it may not match the name for that color.

# Settings – Devices

---

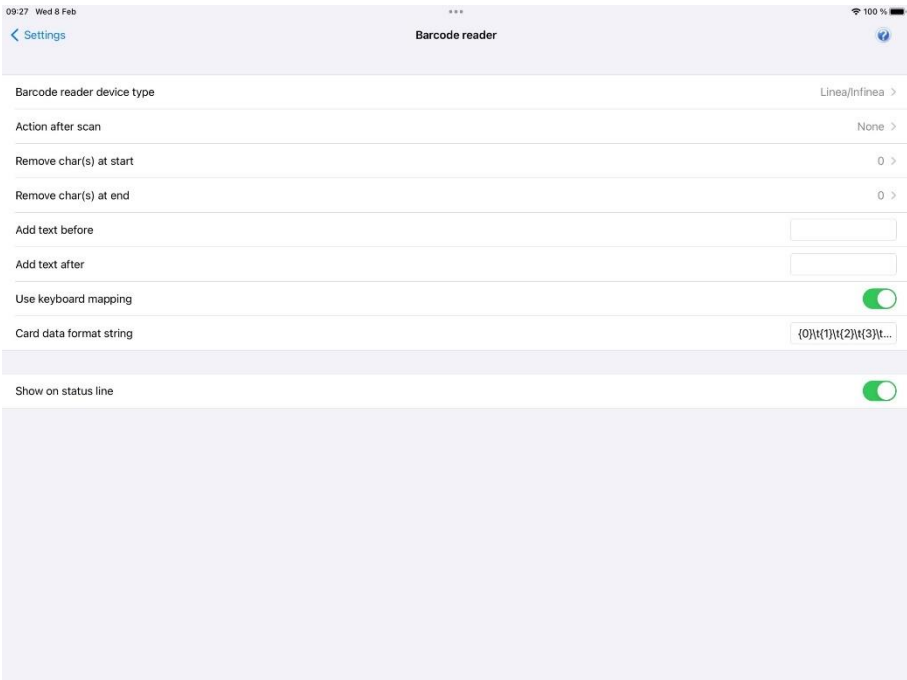
## Print options



Here you can adjust the Font size and Page orientation so that the print data will have the desired look when printed.

Tap the Print data button to return to the print data screen.

# Barcode reader options



## Barcode reader device type

**Barcode reader device** Either HID mode scanner, camera, Socket Mobile Bluetooth scanner or Linea Pro/Infinea Tab (Linea/Infinea may also have a magnetic stripe card reader). The barcode data is inserted as normal input data at the current cursor location of the Glink display.

If the scanner is used as a HID keyboard input device, Glink will not know if the data is coming from the actual keyboard or from the scanner. The options below is not in use for scanners operating in HID mode. Instead, use the configuration options available for the scanner itself.

A bar code icon is added to the toolbar at the top of the Glink display if the Camera option is selected. It is only visible when Glink is connected to the host application. Tap the bar code reader icon to use the camera to scan a barcode.

If the Linea/Infinea option is selected, Glink will accept barcode and magnetic card data as soon as Glink is connected to the host application.

## Settings – Devices

If a Socket Mobile bluetooth barcode Scanner is selected, make sure the scanner is set up to use Application Mode (SPP) for Apple iOS devices.

Select the proper barcode reader device type:

Keyboard  
Wedge

Default. Scanned data is received as keyboard input. Glink cannot separate scanned data from keyboard input.

Camera

Enables scanning using the camera. An icon is added to the action bar at the top of the Glink display. Tap the icon to use the camera for barcode scanning.

Linea/In-  
finea

Use with *IPCMobile* (Infinite Peripherals) Linea and Infinea barcode scanner products. Glink will accept both scanned barcodes and Magnetic card data

Socket Mo-  
bile

Use with *Socket Mobile Scanner*. Use the Socket Mobile Companion App to pair and set up the scanner to use Application Mode (SPP) for Apple iOS devices.

## More options

Please note that most scanner software can be configured with options like the ones below. Make sure that these options either is set here in Glink or in the Device Scanner settings itself. Check the Device Scanner manual.

### Action after scan

|         |   |
|---------|---|
| None    | Do no action after scanning                             |
| Tab     | Do Tab after scanning                                   |
| Enter   | Do Enter after scanning                                 |
| FldExit | Do Field Exit after scanning (5250 emulation mode only) |

### Remove char(s) at start

Removes one or more characters at the beginning of the barcode.

### Remove char(s) at end

Removes one or more characters at the end of the barcode.

### Add text before

Add text before the barcode.

### Add text after

Add text after the barcode (the Action after scan will be added after this text).

### Card data format string

The Card data format string option formats the data read from the Linea/Infinea magnetic stripe card reader. The option is only visible if Linea/Infinea is selected.

The card reader delivers card data to Glink unformatted. Glink splits the data into an array of fields and uses the *Card data format string* to select and format one or more fields. This means that just a part of the magnetic card may be delivered to a host application. An empty *Card data format string* means deliver all the card data unformatted.

**{n}** is used as syntax to select field n. A format string like  
 {0}{1}{2}

will select the first three fields.

## Settings – Devices

Financial card data will be split into eight fields:

| Field | Length | Type               |
|-------|--------|--------------------|
| {0}   | 19     | PAN                |
| {1}   | 26     | NAME               |
| {2}   | 2      | YY                 |
| {3}   | 2      | MM                 |
| {4}   | 3      | Service code       |
| {5}   | 8      | Discretionary data |
| {6}   | 19     | PAN (track 2)      |
| {7}   | 15     | Additional track 2 |

The format string `{0}{1}{2}` will select the PAN, NAME and YY fields and present them as a combined string.

A TAB character (`\t`) may be added to separate the fields:

```
{0}\t{1}\t{2}
```

The fields may also be separated with spaces or text:

```
{0} expire: 20{2}/{3}
```

will present the PAN field together with the expire date fields:

```
1234567890123456789 expire: 2019/07
```

### ***Use keyboard mapping***

Check this option if keyboard mapping should apply for scanned data. For example, if colon (:) is mapped to the *Tab* function and the semicolon (;) is mapped to the *Enter* function, a scanned barcode text 1234:5678; will be interpreted as key input **1234Tab5678Enter**

### ***Show on status line***

Check this option to display the scanned data as a status message at the bottom of the screen as well.



## ***Application Mode (SPP) for Apple iOS devices***

The Socket Mobile device is by default setup in HID-Keyboard mode. In this mode the scanner acts as an external Bluetooth keyboard and scanned data is received in Glink as keyboard input.

A better solution is to download from App Store the **Socket Mobile Companion App** and follow the instructions to pair the scanner with the iOS device and set the scanner to use *Application Mode (SPP) for Apple iOS devices*. Then select Socket Mobile as the Barcode reader device type in Glink.

## ***Keyboard options***

Glink uses any of the standard iOS keyboards configured. The keyboard configurations are found in the iOS Settings app in the **General-> Keyboard** section.

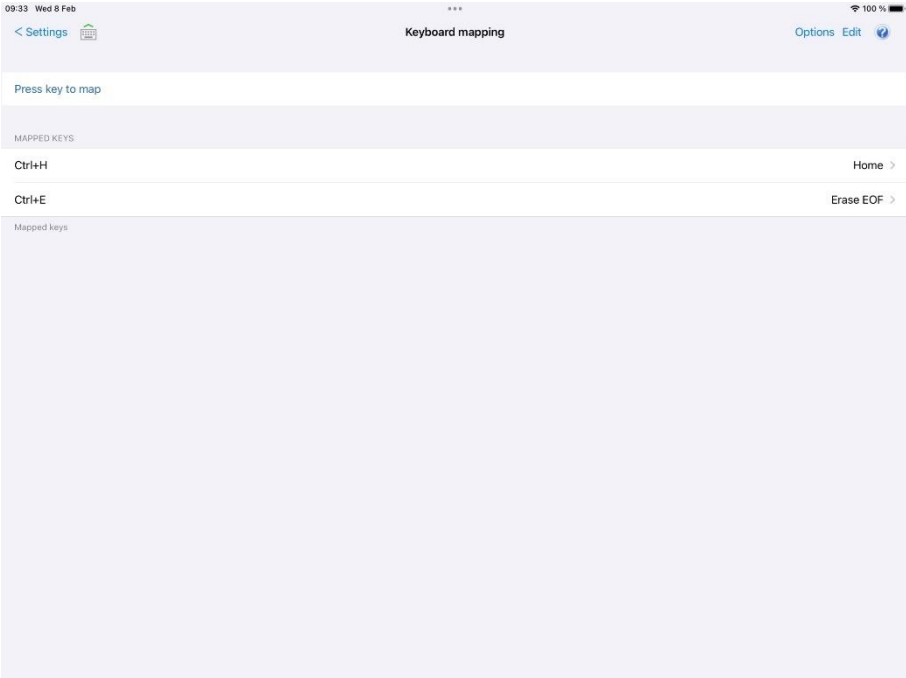
### ***External keyboard***

When using an external keyboard, in the Glink main screen, select *Menu-> General options-> Keyboard up on*. Glink will then be ready for keyboard input when connected to a host application (otherwise you must tap at an input field first).

Glink support several keyboard shortcuts for function and control keys. To display a list of these shortcuts, press and hold the *cmd* key until the list is displayed. See Keyboard Shortcuts in the *Getting started* section.

Keys can be mapped or remapped, select Setting->Keyboard mapping option.

## Keyboard mapping

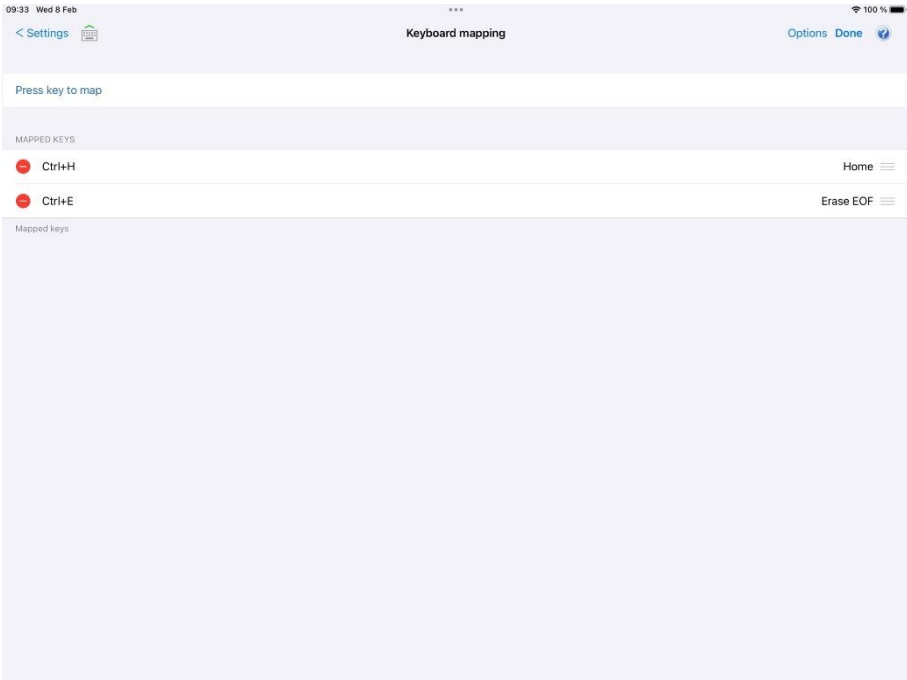


Glink is initially set up with a default keyboard mapping when using an external keyboard. You may override the default mapping or add a new mapping.

The list box displays the keys mapped if any.

Press the key to map. Select the keyboard icon button to bring up the soft keyboard if needed. Once a key is pressed and confirmed to map, a new row is added. Select the *Key not mapped* entry to map the key to a function or macro. If a macro is selected, select the **Detail disclosure button** to define the actual macro.

Select the **Edit** option to remove a key mapping.



Please note that prior iOS 13.4 various keys on the external keyboard (like the function keys F1, F2...) are not supported by iOS and cannot be mapped.

## Define macro

The macro must be defined and the *Macro string* field below defines the macro.

### Button text

The button text is information only and is not used when the macro is executed.

### Macro string

When entering a macro string, in addition to plain text, there are several conventions, all of which are signaled using the caret (^). If you wish to enter a 'real' caret then you must type it twice (^ ^).

Control characters may be entered using the normal convention with a letter following the caret symbol. For example, a return is ^M and a line feed is ^J.

## Settings – Devices

You may also send specific ASCII codes in hexadecimal, decimal, or octal form by following the caret with a \$, #, or & character, and the desired code:

^#ddd decimal specification

^&ooo octal specification

^\$hh hexadecimal specification

Note that decimal and octal codes must be 3 digits and prefixed with 0 if it is 2 digit codes.

### Macro string tip

Use the Record toolbar macro function to define the required macro and then copy the macro string generated and insert it as *Macro string*. The generated string is found in Setting->Toolbar setup. Select the macro and then the Modify function found in the drop-down Action list.

# ***Distributing Glink configurations from an EMM/MDM***

---

Glink has many configuration parameters that are available through the *Settings* screens in Glink.

A Glink configuration can be prepared and tested on one device, then exported from this device and imported by Glink on other devices. If your MDM does not allow you to distribute the exported Glink configuration file as it is, it will probably allow you to distribute Glink parameters to a managed Enterprise version of Glink, either using a menu to set the Glink parameters or by importing a JSON formatted configuration file containing the Glink parameters. Either way, you will find the parameters in the exported Glink configuration file very useful when setting up such a configuration. Make a note of which parameters you have set/changed, because these are the parameters you must configure and distribute from your MDM. It is not necessary to distribute default parameter values.

Below you will find some examples on how you can distribute a Glink configuration file.

## ***Download the Glink configuration from a web server***

The managed versions of Glink (all iOS versions and Glink VT/5250/3270 Enterprise for Android) can be configured directly from the MDM if the MDM supports managed app configuration. The MDM either use a menu to set the Glink parameters or it imports a JSON formatted configuration file containing the Glink parameters. The method and format vary with the different MDMs.

The MDM server can instruct Glink to import a Glink configuration file from a network location with the following parameters:

|                          |   |
|--------------------------|---|
| con-<br>fig.ver-<br>sion | This parameter (key-name) specifies the version of the MDM parameters. If the version number is equal to the version number on the device, the rest of the parameters are ignored by Glink. |
|--------------------------|---|

## Distributing Glink configurations from an EMM/MDM

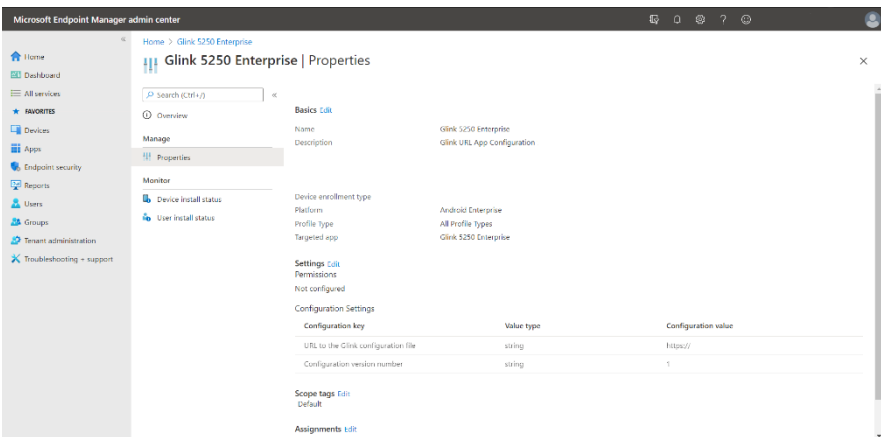
**con-fig.url** This parameter (key-name) provides the URL of the Glink configuration file. Please note that this parameter is ignored if the *config.version* parameter is missing or the version number is the same as the version number on the device. So every time you update the configuration file, you must remember to update the *config.version* parameter

Here is an example:

```
config.version=2
config.url=http://myhost.mydomain.xx/glink/group1/config.glinki
```

Depending on the MDM, these two parameters are either configured in a menu in the MDM console (MobileIron, Meraki, Intune) or in a JSON file uploaded to the MDM (Google Admin) or defined in an MDM-menu (Intune).

Here is an example from Microsoft Intune (Android):



## Set Glink parameters from the MDM

The iOS versions and the managed Glink Enterprise for Android versions of Glink (Glink 5250 Enterprise, Glink VT Enterprise, Glink 3270 Enterprise and Glink Enterprise) can be configured directly from the MDM if the MDM supports managed app configuration. The MDM either use a menu to set the Glink parameters or it imports a JSON formatted configuration file containing the Glink parameters. The method and format vary with the different MDMs.

## Distributing Glink configurations from an EMM/MDM

Here are three key parameters that are explicitly defined with information texts and that are the minimum set of parameters required for a host session configuration:

|                             |   |
|-----------------------------|---|
| <code>config.version</code> | This parameter (key-name) specifies the version of the MDM parameters. If the version number is equal to the version number on the device, the rest of the parameters are ignored.                  |
| <code>config.name</code>    | This is the name of the configuration (session) and must be provided. The configuration is created if it does not already exist. Additional parameters will be set for this selected configuration. |
| <code>com.servername</code> | This specifies the IP address of your host  |

Here is an example:

```
config.version=1
config.name=myhost
com.servername=myhost.mydomain.com
```

These parameters are sufficient to create a host configuration with default values. For other parameters you have to check your exported Glink configuration file, *config.glinki*. These parameters must be defined as `parameter_key / parameter_value` pairs.

For example:

```
Parameter key 1_config.name / Parameter value myhost2
Parameter key 1_com.servername / Parameter value host2.mydomain.com
Parameter key 2_config.name / Parameter value myhost3
Parameter key 2_com.servername / Parameter value host3.mydomain.com
```

Parameters for the first session, named with *config.name*, you do not need a prefix, but other sessions need a prefix. Session 2 parameters are prefixed with **1\_**, session 3 parameters are prefixed with **2\_** and so on.

How you set these parameters will depend on your MDM. Different methods are used. While some MDMs present a menu with the parameters that can be set (MobileIron, Meraki, Intune), others require a JSON-/XML-file with key-name and key-value pairs (Google Admin, Intune).

Here are some examples:

# Distributing Glink configurations from an EMM/MDM

## MobileIron (Android):

**Glink 5250 Enterprise**  
Gallagher & Robertson | Delegation Status: App is delegated

MobileIron Management

Details | Distribution | App Configurations | Reviews | App Config Feedback

App Configurations Summary > Managed Configurations for Android

Cancel Update

Managed Configurations (?)

| Configuration Name   | Value                |
|--|----------------------|
| Configuration version number<br><small>New version number requires an updated configuration file</small> | 2                    |
| URL to the Glink configuration file<br><small>Version number must differ from current one</small>        |                      |
| Configuration name<br><small>Create or modify a session configuration</small>                            | AS400                |
| Host address<br><small>Address to host application</small>   | myhost.mydomain.com  |
| Additional parameters  |                      |
| Add parameter  |                      |
| Parameter key<br><small>See expected configuration file</small>  | com.ibm232user       |
| Parameter value<br><small>See expected configuration file</small>  | myuser@me            |
| Add parameter  |                      |
| Parameter key<br><small>See expected configuration file</small>  | com.ibm232skipper    |
| Parameter value<br><small>See expected configuration file</small>  | #mypassword          |
| Add parameter  |                      |
| Parameter key<br><small>See expected configuration file</small>  | 1_config name        |
| Parameter value<br><small>See expected configuration file</small>  | AS400.2              |
| Add parameter  |                      |
| Parameter key<br><small>See expected configuration file</small>  | 1_com_savename       |
| Parameter value<br><small>See expected configuration file</small>  | myhost2.mydomain.com |

## MobileIron (iOS):



# Distributing Glink configurations from an EMM/MDM

MobileIron CLOUD Dashboard Users Devices Apps Content Configurations Policies Admin

Back to list App Catalog Categories Reviews Catalog Settings Distribution Filters Apple Apps and Books

Glink VT Gallagher & Robertson AS | Delegation Status: App is delegated

Details Distribution App Configurations Reviews

App Configurations Summary | iOS Managed App Configuration

Cancel Update

Configuration Setup

Name

My Linux host

+ Add Description

Configuration Source

Source Type

None

iOS Managed App Settings

| Key            | Value               | Type   |
|----------------|---------------------|--------|
| config.version | 1                   | STRING |
| config.name    | myhost              | STRING |
| com.servername | myhost.mydomain.com | STRING |

+ Add | Use .plist

Any key values should be separated by comma (example: 2.33.44) and date value should be in milliseconds (example: 1437496170000).

Distribute this App Config

Choose one of these options

Everyone with App No One Custom

## Meraki (Android):

Meraki Dashboard

Managed App Config

App ID: Glink 3270 Enterprise

Settings

Key: config.version Configuration version number Value: 1 Type: A

Key: config.name Configuration name Value: text Type: TEXT

Key: com.servername Host address Value: myhost.mydomain.com Type: TEXT

Key: parameter App parameter Value: parameter

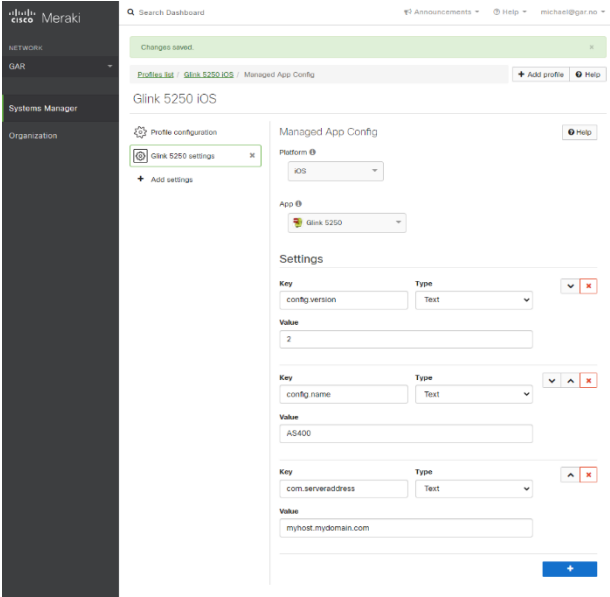
Add parameter

Key: parameter\_key Parameter key Value: com.kem3270user

Key: parameter\_value Parameter value Value: myhost.mydomain.com

## Meraki (iOS):

# Distributing Glink configurations from an EMM/MDM



## General options

Parameters that are common to all sessions and configured in the *General options* menu, must be configured in a *config.name* named *GeneralOptions*, **without** a *n\_* prefix.

For example:

**Parameter key** *config.name* / **Parameter value** *GeneralOptions*  
**Parameter key** *screen.noautolock* / **Parameter value** *true*

## Passwords

Passwords are normally entered as the encrypted string you see in an exported Glink configuration file. Starting from version 2.4.3 you can also specify passwords in clear text if you use the prefix *##*. For example, the password that protects access to *Settings*, *General options*, *New configuration*, *Export configurations* and more:

**Parameter key** *config.name* / **Parameter value** *GeneralOptions*  
**Parameter key** *screen.cfpasswd* / **Parameter value** *##settingpassword*

or the password for an auto-logout to IBM AS400/iSeries:

```
Parameter key config.name / Parameter value AS400
Parameter key com.servername / Parameter value myhost.mydomain.com
Parameter key com.ibm5250user / Parameter value username
Parameter key com.ibm5250subspw / Parameter value ##as400password
Parameter key com.ibm5250usealtlogin / Parameter value true
```

## Toolbar

If you want to configure your own toolbar(s), you might want to remove the default toolbars with all their buttons before you start defining your own. To do that, you can use the parameter *toolbar.remove* and set it to *true*. Then you can add your own buttons, for example like this:

```
Parameter key toolbar.remove / Parameter value true
Parameter key toolbar.cmd0 / Parameter value 54,Left,,\u21a4
Parameter key toolbar.cmd1 / Parameter value 51,Up,,\u21a5
Parameter key toolbar.cmd2 / Parameter value 52,Down,,\u21a7
Parameter key toolbar.cmd3 / Parameter value 53,Right,,\u21a6
```

## Remove a session configuration

If you want to remove a session (*config.name*) from your configuration, you can use the parameter *config.remove*, for example:

```
Parameter key config.remove / Parameter value AS400
```

## XML Schema

[The AppConfig Community](#), supported by a collection of industry leading EMM solution providers, have defined a standard schema to configure apps. Using this definition, the Glink parameters can be specified in an XML document using the following syntax:

```
<managedAppConfiguration>
<version>1</version>
<bundleId>no.gar.glink5250</bundleId>
<dict>
  <string keyName="config.name">
    <defaultValue>
      <value>MyConfigName</value>
    </defaultValue>
  </string>
```

## Distributing Glink configurations from an EMM/MDM

```
<string keyName="com.servername">
  <defaultValue>
    <value>MyServerAddress</value>
  </defaultValue>
</string>
</dict>
</managedAppConfiguration>
```

Please note that the **bundleId** must match the Glink version you are using; either no.gar.glink5250, no.gar.glink3270, no.gar.glinkvt or no.gar

## MDM Parameter list

|   |                      |   |         |
|---|----------------------|---|---------|
| <b>General parameters</b>                                 |                      |   |         |
| Version number for the configuration                      | config.version       | number  | Integer |
| Web Address where Glink can download config file          | config.url           | http/https address to config file                 | String  |
| Name of new or existing host session                      | config.name          | Define name for a session or GeneralOptions       | String  |
| Remove a session, General options or everything           | config.remove        | Name of session to remove or GeneralOptions / all | String  |
| Send activation key to the devices                        | config.actkey        | Product activation key with hyphens ('-') removed |         |
| Remove all toolbar definitions                            | toolbar.remove       | true, false                                       | Boolean |
|   |                      |   |         |
| <b>General options</b>                                    |                      |   |         |
| Screen orientation - Android only                         | screen.orientation   | <b>0=Any</b> , 1=Portrait, 2=Landscape            | Integer |
| Auto-connect session at start up                          | screen.autoConnect   | true, <b>false</b>                                | Boolean |
| Auto-reconnect if connection lost - Android only          | screen.autoReconnect | true, <b>false</b>                                | String  |
| Disconnect at lock screen - Android only                  | screen.discntAtLock  | true, <b>false</b>                                | Boolean |
| Never Auto-Lock when connected                            | screen.noAutoLock    | true, <b>false</b>                                | Boolean |
| Ignoring battery optimizations - Android only             | screen.ignoreBattery | true, <b>false</b>                                | Boolean |
| Keyboard up   | screen.showKeyboard  | <b>0=Default</b> , 1=On, 2=Off                    | Integer |
| Toolbar - click on keypress                               | screen.toolbarClicks | <b>0=Off</b> , 1=Sound 1, 2=Sound 2               | Integer |
| Toolbar - vibrate on keypress in millisecc - Android only | screen.toolbarVibr   | <b>0=Off</b> , 20, 50, 100, 150, 200, 300         | Integer |
| Toolbar - popup on keypress - Android only                | screen.toolbarPopup  | <b>0=Default</b> , 1=On, 2=Off                    | Integer |
| Send/Receive notification sound - Android only            | screen.sndRcvSound   | <b>0=Off</b> , 1=On, 2=Send only, 3=Recv only     | Integer |

## Distributing Glink configurations from an EMM/MDM

|   |                     |  |         |
|---|---------------------|--|---------|
| Show Sessions view when disconnected - Android only | screen.showSess     | true, <b>false</b>   | Boolean |
| Alert sound - Android only                          | screen.alertSound   | 0=Off, 1= <b>Android notification</b> , 2=Android alarm  | Integer |
| Language  | screen.language     | Default, us= <b>US English</b> , de=DE German, pt=PT Portuguese, fr=FR French, no=NO Norwegian | String  |
| Password  | screen.cfgPassword  |  | String  |
| Key repeat – iOS Only                               | Screen.keyRepeat    | true, <b>false</b>   | Boolean |
| Show IOS status bar - iOS Only                      | screen.iosStatusBar | <b>0=Always</b> , 1=Portrait only, 2=Never   | Integer |
|   |                     |  |         |
| <b>Show Menu/Action bar items - Android only</b>    |                     |  |         |
| <b>On Menu (by default)</b>                         |                     |  |         |
| Sessions  | screen.mitem8       | 0= <b>Menu</b> , 1=Action bar, 2=Hide  | Integer |
| Settings  | screen.mitem10      | 0= <b>Menu</b> , 1=Action bar, 2=Hide  | Integer |
| Scrollback  | screen.mitem11      | 0= <b>Menu</b> , 1=Action bar, 2=Hide  | Integer |
| Print screen  | screen.mitem12      | 0= <b>Menu</b> , 2=Hide  | Integer |
| Record macro  | screen.mitem13      | 0= <b>Menu</b> , 2=Hide  | Integer |
| Debug mode  | screen.mitem14      | 0= <b>Menu</b> , 2=Hide  | Integer |
| Print logging                                       | screen.mitem15      | 0= <b>Menu</b> , 2=Hide  | Integer |
| New Glink Window                                    | screen.mitem21      | 0= <b>Menu</b> , 1=Action bar, 2=Hide  | Integer |
| Remove Glink Window                                 | screen.mitem22      | 0= <b>Menu</b> , 1=Action bar, 2=Hide  | Integer |
| General options                                     | screen.mitem16      | 0= <b>Menu</b> , 1=Action bar, 2=Hide  | Integer |
| Export configurations                               | screen.mitem23      | 0= <b>Menu</b> , 2=Hide  | Integer |
| Help  | screen.mitem18      | 0= <b>Menu</b> , 1=Action bar, 2=Hide  | Integer |
| About   | screen.mitem19      | 0= <b>Menu</b> , 2=Hide  | Integer |
| Exit  | screen.mitem25      | 0= <b>Menu</b> , 2=Hide  | Integer |
|   |                     |  |         |
| <b>On Action bar (by default)</b>                   |                     |  |         |
| Toggle toolbar                                      | screen.mitem24      | 1= <b>Action bar</b> , 2=Hide  | Integer |

## Distributing Glink configurations from an EMM/MDM

|                             |                          |  |         |
|-----------------------------|--------------------------|--|---------|
| Toggle keyboard             | screen.mitem1            | 1= <b>Action bar</b> , 2=Hide                  | Integer |
| Connect                     | screen.mitem6            | 0= Menu, 1= <b>Action bar</b> , 2=Hide         | Integer |
| Disconnect                  | screen.mitem9            | 0= Menu, 1= <b>Action bar</b> , 2=Hide         | Integer |
| Enter                       | screen.mitem7            | 1= <b>Action bar</b> , 2=Hide                  | Integer |
|                             |                          |  |         |
| <b>Pop up on Action bar</b> |                          |  |         |
| Scan barcode                | screen.mitem2            | 0= Menu, 1= <b>Action bar</b>                  | Integer |
| Print data                  | screen.mitem3            | 0= Menu, 1= <b>Action bar</b>                  | Integer |
| Debug data                  | screen.mitem4            | 0= Menu, 1= <b>Action bar</b>                  | Integer |
| SSL/SSH info                | screen.mitem17           | 1= <b>Action bar</b> , 2=Hide                  | Integer |
| Select Glink                | screen.mitem20           | 0= Menu, 1= <b>Action bar</b>                  | Integer |
| Pause                       | screen.mitem26           | 0= Menu, 1= <b>Action bar</b>                  | Integer |
|                             |                          |  |         |
| <b>Communication</b>        |                          |  |         |
| Comms interface             | com.type                 | Telnet, TN5250, TN3270, SSH, Ggate, TNVIP, Raw | String  |
|                             |                          |  |         |
| <b>Telnet options</b>       |                          |  |         |
| Server address              | com.serverName           |  | String  |
| Terminal type               | com.telnetType           | <b>vt220</b>                                   | String  |
| Line terminator             | com.telnetCRNUL          | <b>0=CR+LF</b> ,<br>1=CR+NULL, 2=CR            | Integer |
| Use IP for BRK              | com.telnetUseIP          | true, <b>false</b>                             | Boolean |
| Binary mode                 | com.telnetBinary         | true, <b>false</b>                             | Boolean |
| Simulate parity             | com.telnetSimulateParity | true, <b>false</b>                             | Boolean |
| Keep alive type             | com.keepAtype            | <b>0=TCP</b> , 1=Telnet                        | Integer |
| Keep alive interval         | com.keepAlive            |  | String  |
| Wait for login prompt       | com.tnWaitUsr            |  | String  |
| Login with                  | com.tnUser               |  | String  |
| Wait for password prompt    | com.tnWaitPsw            |  | String  |

## Distributing Glink configurations from an EMM/MDM

|                                 |                   |                    |         |
|---------------------------------|-------------------|--------------------|---------|
| Password                        | com.tnPassword    |                    | String  |
| Wait for command                | com.waitprompt    |                    | String  |
| Do command                      | com.docommand     |                    | String  |
| Use secure sockets - SSL        | com.useSSL        | true, <b>false</b> | Boolean |
| Authenticate server certificate | com.valServerCert | true, <b>false</b> | Boolean |
| File name client certificate:   | com.clientCert    |                    | String  |
| Password client certificate:    | com.clientCertPW  |                    | String  |
| Use SSH connection              | com.useSSH        | true, <b>false</b> | Boolean |
| Server address:                 | com.sshHost       |                    | String  |
| User name:                      | com.sshUser       |                    | String  |
| Password:                       | com.sshPassword   |                    | String  |
| Private key file:               | com.sshKeyFile    |                    | String  |
| Keep alive interval in seconds  | com.sshKeepA      | <b>0</b>           | Integer |
|                                 |                   |                    |         |
| <b>SSH options</b>              |                   |                    |         |
| Server address                  | com.serverName    |                    | String  |
| Use SSH connection              | com.useSSH        | <b>true</b>        | Boolean |
| User name:                      | com.sshUser       |                    | String  |
| Password:                       | com.sshPassword   |                    | String  |
| Private key file:               | com.sshKeyFile    |                    | String  |
| Terminal type:                  | com.sshTerminal   | <b>vt220</b>       | String  |
| Number of cols:                 | com.sshCols       | <b>80</b>          | Integer |
| Number of rows:                 | com.sshRows       | <b>24</b>          | Integer |
| Keep alive interval in seconds  | com.sshKeepA      | <b>0</b>           | Integer |
| Wait for command                | com.waitprompt    |                    | String  |
| Do command                      | com.docommand     |                    | String  |
|                                 |                   |                    |         |
| <b>TN3270 options</b>           |                   |                    |         |
| Server address                  | com.serverName    |                    | String  |



## Distributing Glink configurations from an EMM/MDM

|  |                        |  |         |
|--|------------------------|--|---------|
| 3270 model                                 | com.ibm3270Model       | <b>0=3279-2</b> , 1=3279-3, 2=3278-1, 3=3278-2, 4=3278-3, 5=3278-4, 6=3278-5, 7=3287-1, 8=3279-2E, 9=3279-3E, 10=3278-1E, 11=3278-2E, 12=3278-3E, 13=3278-4E, 14=3278-5E | Integer |
| LU name                                    | com.tn3270LuName       |  | String  |
| Use Extended TN3270                        | com.tn3270Extended     | <b>true</b> , false  | Boolean |
| Send Associated LU                         | com.tn3270AssociateLU  | true, <b>false</b>   | Boolean |
| Keep alive type                            | com.keepAtype          | <b>0=TCP</b> , 1=Telnet  | Integer |
| Keep alive interval                        | com.keepAlive          |  | String  |
| Use secure sockets - SSL                   | com.useSSL             | true, <b>false</b>   | Boolean |
| Authenticate server certificate            | com.valServerCert      | true, <b>false</b>   | Boolean |
| File name client certificate:              | com.clientCert         |  | String  |
| Password client certificate:               | com.clientCertPW       |  | String  |
| Login with                                 | com.tnUser             |  | String  |
| Password                                   | com.tnPassword         |  | String  |
| Use external validation app - Android only | com.validateApp        | true, <b>false</b>   | Boolean |
|  |                        |  |         |
| <b>TN5250 options</b>                      |                        |  |         |
| Server address                             | com.serverName         |  | String  |
| 5250 model                                 | com.ibm5250Model       | <b>0=3179-2</b> , 1=3180-2, 2=3196-A1, 3=3477-FC, 4=3477-FG, 5=5251-11, 6=5291-1, 7=5292-2, 8=5555-C01, 9=5555-B01, 10=3812-1, 11=5553-B01                               | Integer |
| Device Name                                | com.tn5250MainDevice   |  | String  |
| Keep alive type                            | com.keepAtype          | <b>0=TCP</b> , 1=Telnet  | Integer |
| Keep alive interval                        | com.keepAlive          |  | String  |
| User ID                                    | com.ibm5250User        |  | String  |
| Password                                   | com.ibm5250SUBSPW      |  | String  |
| Use alternate auto login                   | com.ibm5250UseAltLogin | true, <b>false</b>   | Boolean |

## Distributing Glink configurations from an EMM/MDM

|                                 |                         |   |         |
|---------------------------------|-------------------------|---|---------|
| Use secure sockets - SSL        | com.useSSL              | true, <b>false</b>  | Boolean |
| Authenticate server certificate | com.valServerCert       | true, <b>false</b>  | Boolean |
| File name client certificate:   | com.clientCert          |   | String  |
| Password client certificate:    | com.clientCertPW        |   | String  |
| Message queue                   | com.ibm5250IBMMMSGQNAME | <b>QSYSOPR</b>  | String  |
| Message library                 | com.ibm5250IBMMMSGQLIB  | <b>*LIBL</b>  | String  |
| Font ID                         | com.ibm5250IBMFONT      | <b>11</b>   | Integer |
| Form feed type                  | com.ibm5250IBMFORMFEED  | <b>A=Auto feed sheets, C=Continuous paper, U=Manual feed sheets</b> | String  |
|                                 |                         |   |         |
| <b>TNVIP options</b>            |                         |   |         |
| Server address                  | com.serverName          |   | String  |
| CoName or Resource              | com.serverTarget        |   | String  |
| Terminal type                   | com.telnetType          |   | String  |
| Initial turn                    | com.initialTurn         | <b>0=Default, 1=Glink, 2=Host</b>                                   | Integer |
| Keep alive type                 | com.keepAtype           | <b>0=TCP, 1=Telnet</b>  | Integer |
| Keep alive interval             | com.keepAlive           |   | String  |
| Use secure sockets - SSL        | com.useSSL              | true, <b>false</b>  | Boolean |
| Authenticate server certificate | com.valServerCert       | true, <b>false</b>  | Boolean |
|                                 |                         |   |         |
| <b>Ggate options</b>            |                         |   |         |
| Server address                  | com.serverName          |   | String  |
| Alternate server address        | com.altServerName       |   | String  |
| Random connect                  | com.tcpConnectRandom    | true, <b>false</b>  | Boolean |
| Use secure sockets - SSL        | com.useSSL              | true, <b>false</b>  | Boolean |
| Authenticate server certificate | com.valServerCert       | true, <b>false</b>  | Boolean |
| CoName or Resource              | com.serverTarget        |   | String  |
| Ggate protocol                  | com.ggateType           | <b>DSA, DIWS</b>  | String  |
| Remote mailbox name             | com.ggateDa             |   | String  |
| Remote mailbox extension        | com.ggateDx             |   | String  |

## Distributing Glink configurations from an EMM/MDM

|                             |                         |   |         |
|-----------------------------|-------------------------|---|---------|
| Remote node name            | com.ggateDn             |   | String  |
| Local mailbox name          | com.ggateMn             |   | String  |
| User ID                     | com.ggateDu             |   | String  |
| Password                    | com.ggatePw             |   | String  |
| Project                     | com.ggateDp             |   | String  |
| Billing                     | com.ggateDb             |   | String  |
| Host mode                   | com.ggateHm             | <b>CXI, DN, DPS7, DPS8, IBM, ROUTER, UNIX</b> | String  |
| Terminal mode               | com.ggateTm             | See Glink                                     | String  |
| GRTS/LID user string        | com.ggateUr             |   | String  |
| IBM log mode                | com.ggateLm             |   | String  |
| Additional parameters       | com.ggateExtra          |   | String  |
| Keep alive (secs)           | com.ggateKeepAliveInt   | <b>0</b>                                      | Integer |
| Initial turn                | com.initialTurn         | <b>0=Default, 1=Glink, 2=Host</b>             | Integer |
| Send commands as data       | com.ggateCommandsAsData | true, <b>false</b>                            | Boolean |
|                             |                         |   |         |
| <b>Raw TCP/IP options</b>   |                         |   |         |
| Server address              | com.serverName          |   | String  |
| Use SSH connection          | com.useSSH              | true, <b>false</b>                            | Boolean |
| User name:                  | com.sshUser             |   | String  |
| Password:                   | com.sshPassword         |   | String  |
| Terminal type:              | com.sshTerminal         | <b>vt220</b>                                  | String  |
| Number of cols:             | com.sshCols             | <b>80</b>                                     | Integer |
| Number of rows:             | com.sshRows             | <b>24</b>                                     | Integer |
| Wait for command            | com.waitprompt          |   | String  |
| Do command                  | com.docommand           |   | String  |
|                             |                         |   |         |
| <b>Proxy server options</b> |                         |   |         |
| Use server                  | com.useProxy            | true, <b>false</b>                            | Boolean |
| Address                     | com.proxyN              |   | String  |
| Port                        | com.proxyP              | <b>30855</b>                                  | Integer |
| Secure communication        | com.proxyEncrypt        | true, <b>false</b>                            | Boolean |

## Distributing Glink configurations from an EMM/MDM

|                        |                |   |         |
|------------------------|----------------|---|---------|
| User disconnect        | com.proxyDC    | <b>0</b>  | Integer |
| Connection lost        | com.proxyDH    | <b>300</b>  | Integer |
|                        |                |   |         |
| <b>Emulation</b>       |                |   |         |
| Emulation Mode         | emu.type       | 3270, 5250, VT, ANSI, VIP, DKU, TTY, 7102, 7700   | String  |
|                        |                |   |         |
| <b>VT options</b>      |                |   |         |
| ECHO mode              | emu.vtInitEcho | <b>true</b> , false   | Boolean |
| ROLL mode              | emu.vtInitRoll | <b>true</b> , false   | Boolean |
| Line mode              | emu.vtLineMode | <b>0=Off</b> , 1=Basic, 2=Extended  | Integer |
| Add LFs to CRs         | emu.vtAddLFs   | true, <b>false</b>  | Boolean |
| No column 81           | emu.vtNo81     | true, <b>false</b>  | Boolean |
| Backspace key action   | emu.vtDelToBs  | <b>0=BS</b> , 1=DEL, 2=BS+DEL   | Integer |
| Answerback string      | emu.vtAnswerB  |   | String  |
| VT DA Alias            | emu.vtAliasDA  | 0=Glink,1=VT100,2=VT101,3=VT102,4=VT125,5=VT131,6=VT220,7=VT240,8=VT320,9=VT340,10=VT420, <b>11=VT440</b> | Integer |
| F5 send PuTTY sequence | emu.vtAltF5    | true, <b>false</b>  | Boolean |
| Mute host alarm        | emu.muteHALarm | true, <b>false</b>  | Boolean |
|                        |                |   |         |
| <b>ANSI options</b>    |                |   |         |
| ECHO mode              | emu.vtInitEcho | <b>true</b> , false   | Boolean |
| ROLL mode              | emu.vtInitRoll | <b>true</b> , false   | Boolean |
| Line mode              | emu.vtLineMode | <b>0=Off</b> , 1=Basic, 2=Extended  | Integer |
| Add LFs to CRs         | emu.vtAddLFs   | true, <b>false</b>  | Boolean |
| No column 81           | emu.vtNo81     | true, <b>false</b>  | Boolean |
| Backspace key action   | emu.vtDelToBs  | <b>0=BS</b> , 1=DEL, 2=BS+DEL   | Boolean |
| Answerback string      | emu.vtAnswerB  | ansi  | String  |
|                        |                |   |         |

## Distributing Glink configurations from an EMM/MDM

|  |                   |   |         |
|--|-------------------|---|---------|
| <b>VT / ANSI / VIP 7800 / VIP 7700 / DKU 7107 / DKU 7102 Transliteration</b> |                   |   |         |
| UTF-8 encoding   | emu.UTF8Encoding  | true, <b>false</b>  | Boolean |
| 8-bit Host   | emu.host8bit      | <b>true</b> , false   | Boolean |
| Allow lowercase to host  | emu.allowLcase    | <b>true</b> , false   | Boolean |
| Host character set   | emu.charset       | <b>Default (Latin 1)</b> , ISO-8859-2 Latin 2, ISO-8859-5 Latin/Cyrillic, IBM-437, IBM-850, Windows-1251, Windows-1253, koi8-r  | String  |
| National transliteration (7-bit host)  | emu.xlitFile8     | <b>Default (No transliteration)</b> , CYR Cyrillic, FIN Finnish, FRA French, FRC French-Canadian, GER German, GR Greek, ITA Italian, LT2 Latin 2, NOR Norwegian, SF Swedish/Finnish, SPA Spanish, SWE Swedish, SWI Swiss, UK United Kingdom, US United States | String  |
| Use SISO encoding  | emu.useSISO       | true, <b>false</b>  | Boolean |
|  |                   |   |         |
| <b>VT / ANSI / VIP 7800 / VIP 7700 / DKU 7107 / DKU 7102 General</b>         |                   |   |         |
| Destructive BS   | emu.destructBS    | <b>true</b> , false   | Boolean |
| Capture on CR  | emu.captureOnCR   | <b>0=LF</b> , 1=CR, 2=CRLF  | Integer |
| Scrollback length (in pages)   | emu.sbackMaxPages | <b>32</b>   | Integer |
| Initial screen width   | emu.initColumns   | 40, <b>80</b> , 132   | Integer |
| Initial screen height (rows)   | emu.initRows      | <b>24</b>   | Integer |
|  |                   |   |         |
| <b>5250 options</b>  |                   |   |         |
| Any command key resets error   | emu.anyCmdResets  | <b>true</b> , false   | Boolean |
| Display errors on status bar   | emu.errToStatBar  | <b>true</b> , false   | Boolean |

## Distributing Glink configurations from an EMM/MDM

|  |                   |   |         |
|--|-------------------|---|---------|
| Treat line as error message line                 | emu.ibmErrLine    | <b>0=OFF</b> , 1 -> 27                          | Integer |
| - If error message line contains                 | emu.ibmErrMsg     |   | String  |
| Mute host alarm                                  | emu.muteHALarm    | true, <b>false</b>                              | Boolean |
| Mute key input alarm                             | emu.muteKALarm    | true, <b>false</b>                              | Boolean |
| Show SO/SI characters                            | emu.ibmShowSoSi   | true, <b>false</b>                              | Boolean |
| Allow cursor in protected area                   | emu.anywhereOk    | true, <b>false</b>                              | Boolean |
| Alternate arrow keys mode                        | emu.altArrowMode  | true, <b>false</b>                              | Boolean |
| Show light pen fields in blue                    | emu.ibmLightPen   | true, <b>false</b>                              | Boolean |
| Auto tab when input field is filled              | emu.autoTabL      | <b>true</b> , false                             | Boolean |
| Auto tab when field is filled with scanned data  | emu.autoTabScan   | <b>true</b> , false                             | Boolean |
| Continuous backspace                             | emu.continuousBS  | true, <b>false</b>                              | Boolean |
| Bypass Right Adjust field check                  | emu.bypassRACheck | true, <b>false</b>                              | Boolean |
| Only scanner input allowed in selector pen field | emu.onlyScanData  | true, <b>false</b>                              | Boolean |
| Unicode data stream                              | emu.ibmUnicode    | true, <b>false</b>                              | Boolean |
|  |                   |   |         |
| <b>3270 options</b>                              |                   |   |         |
| Numeric checking                                 | emu.numCheck3270  | <b>0=None</b> , 1=Strict, 2=Emulator, 3=Relaxed | Integer |
| Treat line as error message line                 | emu.ibmErrLine    | <b>0=OFF</b> , 1 -> 43                          | Integer |
| Mute host alarm                                  | emu.muteHALarm    | true, <b>false</b>                              | Boolean |
| Mute key input alarm                             | emu.muteKALarm    | true, <b>false</b>                              | Boolean |
| Allow cursor in protected area                   | emu.anywhereOk    | true, <b>false</b>                              | Boolean |
|  |                   |   |         |
| <b>IBM 5250 / IBM 3270 Host code page</b>        |                   |   |         |
| Host code page                                   | emu.ibmCodePage   | <b>500 International</b> , See list in Glink    | String  |
|  |                   |   |         |
| <b>IBM 5250 / IBM 3270 General</b>               |                   |   |         |
| Auto tab when input field is filled              | emu.autoTabL      | <b>true</b> , false                             | Boolean |
| Auto Tab host                                    | emu.autoTabH      | true, <b>false</b>                              | Boolean |

## Distributing Glink configurations from an EMM/MDM

|                                     |                      |                                 |         |
|-------------------------------------|----------------------|---------------------------------|---------|
| Destructive BS                      | emu.destructBS       | <b>true</b> , false             | Boolean |
| Scrollback length (in pages)        | emu.sbackMaxPages    | 32                              | Integer |
|                                     |                      |                                 |         |
| <b>VIP 7800 options</b>             |                      |                                 |         |
| Auto tab when input field is filled | emu.autoTabL         | <b>true</b> , false             | Boolean |
| Auto Tab host                       | emu.autoTabH         | true, <b>false</b>              | Boolean |
| Start in TEXT mode                  | emu.vipInitText      | <b>true</b> , false             | Boolean |
| Extended status                     | emu.vipExtStatus     | true, <b>false</b>              | Boolean |
| Non-linear forms                    | emu.vipScrewyForms   | true, <b>false</b>              | Boolean |
| Preserve roll mode                  | emu.vipStickyRoll    | <b>true</b> , false             | Boolean |
| Suppress status line                | emu.vipNoStatusLine  | true, <b>false</b>              | Boolean |
| TX on return                        | emu.vipTxRetMode     | true, <b>false</b>              | Boolean |
| ECHO mode                           | emu.vipInitEcho      | true, <b>false</b>              | Boolean |
| ROLL mode                           | emu.vipInitRoll      | <b>true</b> , false             | Boolean |
| Block mode                          | emu.vipInitBlock     | true, <b>false</b>              | Boolean |
| Disallow status line lock           | emu.vipSuppressLock  | true, <b>false</b>              | Boolean |
| Space suppression                   | emu.vipSpaceSuppress | <b>true</b> , false             | Boolean |
| Add CRLF to transmit                | emu.vipAddCRLFs      | true, <b>false</b>              | Boolean |
| Add LFs to CRs                      | emu.vipAddLFs        | true, <b>false</b>              | Boolean |
| Send NL after XMIT                  | emu.vipNLAfterXmit   | true, <b>false</b>              | Boolean |
| Send ETX for end of transmission    | emu.etxSend          | <b>true</b> , false             | Boolean |
| Enquiry reply string                | emu.vipEnqString     |                                 | String  |
| 7200 attributes                     | emu.vipV7200A        | <b>0=No</b> , 1=Yes, 2=Extended | Integer |
|                                     |                      |                                 |         |
| <b>VIP 7700 options</b>             |                      |                                 |         |
| Auto tab when input field is filled | emu.autoTabL         | <b>true</b> , false             | Boolean |
| Auto Tab host                       | emu.autoTabH         | true, <b>false</b>              | Boolean |
| Start in TEXT mode                  | emu.vipInitText      | <b>true</b> , false             | Boolean |
| Wraparound tabbing                  | emu.dkuWrapTab       | <b>true</b> , false             | Boolean |
| Add LFs to CRs                      | emu.vipAddLFs        | true, <b>false</b>              | Boolean |

## Distributing Glink configurations from an EMM/MDM

|   |                       |  |         |
|---|-----------------------|--|---------|
| Space suppression                               | emu.vipSpaceSuppress  | <b>true</b> , false  | Boolean |
| Suppress status line                            | emu.vipNoStatusLine   | true, <b>false</b>   | Boolean |
| ROLL mode                                       | emu.vipInitRoll       | true, <b>false</b>   | Boolean |
| Show 7700 spaces                                | emu.vip77SpaceReplace | true, <b>false</b>   | Boolean |
| VIP compatibility                               | emu.vipCompat         | <b>0=Normal</b> ,<br>1=ITTCourier,<br>2=ThomasBox                                  | Integer |
|   |                       |  |         |
| <b>DKU 71707 options</b>                        |                       |  |         |
| Auto tab when input field is filled             | emu.autoTabL          | <b>true</b> , false  | Boolean |
| Blink/blank with ^/~                            | emu.dkuBlinkAv        | <b>true</b> , false  | Boolean |
| Show ^/~ in blink/blank                         | emu.dkuBlinkShow      | <b>true</b> , false  | Boolean |
| Cursor straight up/down                         | emu.dkucud            | true, <b>false</b>   | Boolean |
| Allow cursor out of field                       | emu.dkucuf            | <b>true</b> , false  | Boolean |
| New line after Xmit                             | emu.dkuNewLine        | <b>true</b> , false  | Boolean |
| SDP attributes                                  | emu.dkuSDPAtt         | true, <b>false</b>   | Boolean |
| Wrap on page overflow                           | emu.dkuWrap           | true, <b>false</b>   | Boolean |
| Wraparound tabbing                              | emu.dkuWrapTab        | <b>true</b> , false  | Boolean |
| ROLL mode                                       | emu.dkuInitRoll       | true, <b>false</b>   | Boolean |
| Use SS2 for 8bit chars                          | emu.dkuExtend         | true, <b>false</b>   | Boolean |
| Send ETX for end of transmission                | emu.etxSend           | <b>true</b> , false  | Boolean |
| Wincom compatibility                            | emu.dkuWincom         | true, <b>false</b>   | Boolean |
| Fix DKU attributes                              | emu.dkuFixAttr        | <b>true</b> , false  | Boolean |
| DKU model                                       | emu.dkuTermID         | <b>0=7107</b> , 1=7211   | Integer |
| Right justify with                              | emu.dkuRjfChar        | <b>32=Space</b> , 48=Zero,<br>42= Asterisk, 36=Dol-<br>lar, 164=Euro,<br>250=Pound | Integer |
|   |                       |  |         |
| <b>DKU parameters not configurable in Glink</b> |                       |  |         |
| Printer lines per page                          | emu.dkuPrtNbl         |  | Integer |
| Printer columns                                 | emu.dkuPrtNbc         |  | Integer |
| Printer cps                                     | emu.dkuPrtCps         |  | Integer |
| Enable local forms                              | emu.formsEnable       |  | Boolean |



## Distributing Glink configurations from an EMM/MDM

|                                    |                      |   |         |
|------------------------------------|----------------------|---|---------|
|                                    |                      |   |         |
| <b>DKU 7102 options</b>            |                      |   |         |
| Add LFs to CRs                     | emu.vipAddLFs        | true, <b>false</b>  | Boolean |
| ECHO mode                          | emu.dkuInitEcho      | true, <b>false</b>  | Boolean |
| ROLL mode                          | emu.dkuInitRoll      | <b>true</b> , false   | Boolean |
| Tab key sends HT                   | emu.dkuTabSendsHT    | true, <b>false</b>  | Boolean |
| No column 81                       | emu.vtNo81           | true, <b>false</b>  | Boolean |
|                                    |                      |   |         |
| <b>Screen</b>                      |                      |   |         |
| <b>Toolbar options</b>             |                      |   |         |
| Button width with scaling factor   | toolbar.buttonScaleX | <b>1.0</b>  | String  |
| Button height with scaling factor  | toolbar.buttonScaleY | <b>1.0</b>  | String  |
| Button font scaling factor         | toolbar.buttonScaleF | <b>1.0</b>  | String  |
|                                    |                      |   |         |
| <b>Toolbar buttons</b>             |                      |   |         |
| Toolbar button on row L position N | toolbarL.cmdN        | Create Toolbar config in Glink, export and copy   | String  |
|                                    |                      |   |         |
| Remove all toolbar definitions     | toolbar.remove       | true, false   | Boolean |
|                                    |                      |   |         |
| <b>Screen options</b>              |                      |   |         |
| Font size                          | screen.fontSize      | -1=Auto, -2=Fit screen, 6-36  | Integer |
| Font name                          | screen.fontName      | <b>Android: Default</b> , Courier-New, Courier-NewBold, Cousine-Regular, Cousine-Bold, DroidSansMono, Menlo-Regular, Menlo-Bold, SourceCodePro-Regular, SourceCodePro-Semi Bold, SourceCodePro-Bold <b>iOS: CourierNew</b> , Courier, Menlo-Regular | String  |

## Distributing Glink configurations from an EMM/MDM

|  |                       |  |         |
|--|-----------------------|--|---------|
| Font style - iOS Only                      | screen.fontStyle      | 0=Plain, <b>1=Bold</b> ,<br>2=Italic, 3=Bold & Italic  | Integer |
| Cursor type                                | screen.cursortype     | 0=Block, <b>1=Bar</b> ,<br>2=Line  | Integer |
| Cursor color                               | screen.usecursorcolor | <b>0=Default</b> , 1=User defined (white ch), 2=User defined (black ch)  | Integer |
| Cursor color                               | screen.cursorColor    | Change color in Glink and export config  | String  |
| 3D variable fields                         | screen.variable3Ds    | <b>0=Off (5250/3270)</b> ,<br><b>1=On without attribute(VT/ANSI/VIP/DK U/7700/7102)</b> , 2=On with attribute, 3=On without underline, 4=Show as underline   | Integer |
| Blinking cursor                            | screen.cursorBlink    | true, <b>false</b>   | Boolean |
| White background 3D fields                 | screen.whiteBg3D      | true, <b>false</b>   | Boolean |
| Show toolbar                               | screen.multiLineTB    | <b>0=Auto</b> , 1=Multiline, 2=Single-line, 3=Off  | Integer |
| Limit screen view (x,y)                    | screen.limitXY        | col,row  | String  |
| Use double tap to                          | screen.dblTapEnt      | <b>0=Reset screen size</b> , 1=Perform Enter, 2=Toggle Action bar On/Off (On), 3=Toggle Action bar On/Off (Off), 4=Enable/Disable touchscreen (Enabled) <b>Android only</b> , 5==Enable/Disable touchscreen (Disabled) <b>Android only</b> | Integer |
| Double tap again to confirm - Android only | screen.dbltapcfirm    | true, <b>false</b>   | Boolean |
| Extra line spacing                         | screen.extraPixelsY   | From -4 to +8 <b>Default: 0</b>  | Integer |
| Force fixed character width                | screen.variableFont   | true, <b>false</b>   | Boolean |
| Disable zoom                               | screen.noZoom         | true, <b>false</b>   | Boolean |
| Show key input on status line              | screen.showkeyinput   | true, <b>false</b>   | Boolean |
| Function keys                              | screen.hotspotFn      | <b>true</b> , false  | Boolean |
| Option numbers ("nn." or "nn=")            | screen.hotspotNn      | 0=Off, 1=On, <b>2=On with Enter</b>  | Integer |
| Option numbers (" nn ")                    | screen.hotspotN2      | <b>0=Off</b> , 1= On, 2=On with Enter  | Integer |
| Option characters ("aa=")                  | screen.hotspotAa      | <b>0=Off</b> , 1= On, 2=On with Enter  | Integer |

## Distributing Glink configurations from an EMM/MDM

|                          |                            |  |         |
|--------------------------|----------------------------|--|---------|
| URL address              | screen.hotspotUrl          | 0=Off, 1=Open in browser, 2=Open in Glink        | Integer |
|                          |                            |  |         |
| <b>Screen colors</b>     |                            |  |         |
|                          |                            |  |         |
| <b>Color selection</b>   |                            |  |         |
| Screen color             | screen.scrColor            | Make Color selection in Glink and export config  | Integer |
| Status line color        | screen.stsColor            | Make Color selection in Glink and export config  | Integer |
|                          |                            |  |         |
| <b>Color Adjustment</b>  |                            |  |         |
| <b>Dark foreground</b>   |                            |  |         |
| Black                    | screen.foreground_BlackLo  | Make Color adjustment in Glink and export config | String  |
| Blue                     | screen.foregroundBlueLo    | Make Color adjustment in Glink and export config | String  |
| Green                    | screen.foregroundGreenLo   | Make Color adjustment in Glink and export config | String  |
| Cyan                     | screen.foregroundCyanLo    | Make Color adjustment in Glink and export config | String  |
| Red                      | screen.foregroundRedLo     | Make Color adjustment in Glink and export config | String  |
| Magenta                  | screen.foregroundMagentaLo | Make Color adjustment in Glink and export config | String  |
| Yellow                   | screen.foregroundYellowLo  | Make Color adjustment in Glink and export config | String  |
| White                    | screen.foregroundWhiteLo   | Make Color adjustment in Glink and export config | String  |
|                          |                            |  |         |
| <b>Bright foreground</b> |                            |  |         |
| Black                    | screen.foreground_BlackHi  | Make Color adjustment in Glink and export config | String  |
| Blue                     | screen.foregroundBlueHi    | Make Color adjustment in Glink and export config | String  |

## Distributing Glink configurations from an EMM/MDM

|   |                            |  |         |
|---|----------------------------|--|---------|
| Green   | screen.foregroundGreenHi   | Make Color adjustment in Glink and export config                             | String  |
| Cyan  | screen.foregroundCyanHi    | Make Color adjustment in Glink and export config                             | String  |
| Red   | screen.foregroundRedHi     | Make Color adjustment in Glink and export config                             | String  |
| Magenta   | screen.foregroundMagentaHi | Make Color adjustment in Glink and export config                             | String  |
| Yellow  | screen.foregroundYellowHi  | Make Color adjustment in Glink and export config                             | String  |
| White   | screen.foregroundWhiteHi   | Make Color adjustment in Glink and export config                             | String  |
|   |                            |  |         |
| <b>Background</b>                               |                            |  |         |
| Black   | screen.backgroundBlack     | Make Color adjustment in Glink and export config                             | String  |
| Blue  | screen.backgroundBlue      | Make Color adjustment in Glink and export config                             | String  |
| Green   | screen.backgroundGreen     | Make Color adjustment in Glink and export config                             | String  |
| Cyan  | screen.backgroundCyan      | Make Color adjustment in Glink and export config                             | String  |
| Red   | screen.backgroundRed       | Make Color adjustment in Glink and export config                             | String  |
| Magenta   | screen.backgroundMagenta   | Make Color adjustment in Glink and export config                             | String  |
| Yellow  | screen.backgroundYellow    | Make Color adjustment in Glink and export config                             | String  |
| White   | screen.backgroundWhite     | Make Color adjustment in Glink and export config                             | String  |
|   |                            |  |         |
| <b>VT / ANSI / DKU / 7102 attribute mapping</b> |                            |  |         |
| Color scheme                                    | screen.sgrColor            | <b>0</b> =Mono, <b>1</b> = 4-color A, <b>2</b> =4-color B, <b>3</b> =7-color | Integer |
| Use underline                                   | screen.sgrUseUnderline     | <b>true</b> , false  | Boolean |

## Distributing Glink configurations from an EMM/MDM

|   |                     |  |         |
|---|---------------------|--|---------|
| Use blink                                     | screen.sgrUseBlink  | <b>true</b> , false  | Boolean |
| Attributes to map                             | screen.sgrusermap   | Create mapping in Glink and export config                        | String  |
|   |                     |  |         |
| <b>VIP attribute mapping</b>                  |                     |  |         |
| Parameter only needed when default is changed | screen.orattss      | Create mapping in Glink and export config                        |         |
| Parameter only needed when default is changed | screen.andattss     | Create mapping in Glink and export config                        |         |
|   |                     |  |         |
| <b>Devices</b>                                |                     |  |         |
| <b>Print setup</b>                            |                     |  |         |
| Printer type - Android only                   | print.type          | <b>File=Default</b> ,<br>LPD=LPD server,<br>BT=Bluetooth printer | String  |
| Font size - iOS only                          |                     | <b>14</b>  |         |
| Page Orientation - iOS only                   |                     | <b>Portrait</b>  |         |
| Printer timeout (secs)                        | print.timeout       | <b>5</b>   | Integer |
|   |                     |  |         |
| LPD server address - Android only             | print.lpdServerName |  | String  |
| LPD queue name - Android only                 | print.lpdQueueName  |  | String  |
| Pre-print character - Android only            | print.pccBefore     | <b>0=None</b> , 1=CR,<br>2=CR+LF, 3=CR+FF,<br>4=CR+VT            | Integer |
| Post-print character - Android only           | print.pccAfter      | <b>0=None</b> , 1=CR,<br>2=CR+LF, 3=CR+FF,<br>4=CR+VT            | Integer |
| Transparent print - Android only              | print.transparent   | true, <b>false</b>   | Boolean |
| Use print ctl for host data - Android only    | print.pCtlHostData  | true, <b>false</b>   | Boolean |
|   |                     |  |         |
| Bluetooth device - Android only               | print.btDevice      |  | String  |
| Init string - Android only                    | print.btInit        |  | String  |
| Character encoding - Android only             | print.btEncoding    | <b>IBM437</b>  | String  |
|   |                     |  |         |
| <b>DKU option</b>                             |                     |  |         |

## Distributing Glink configurations from an EMM/MDM

|  |                   |  |         |
|--|-------------------|--|---------|
| Use 0x19 as SS2                                  | print.ss2X19      | true, <b>false</b>   | Boolean |
| Use Esc E as SS2                                 | print.ss2EscE     | true, <b>false</b>   | Boolean |
| Combine double escapes                           | print.ss2EscEsc   | true, <b>false</b>   | Boolean |
|  |                   |  |         |
| <b>Barcode reader setup</b>                      |                   |  |         |
| Barcode reader device type                       | print.bcEnable    | <b>Android:</b> 0=Keyboard Wedge, 7=Keyboard Wedge A, 1=Camera, 8=AML Scanner, 10=Cipherlab, 9= Data-logic, 4=Denso Scanner, 5=Honeywell Scanner, 11=M3 Mobile, 12=Point Mobile, 6=Socket Mobile, 3=Unitech Scanner, 13=Urovo scanner, 2=Zebra skanner <b>iOS:</b> <b>0=Keyboard Wedge</b> , 1=Camera, 2=Linea/in-finea, 3=Socket Mobile | Integer |
| Action after scan                                | print.bcDoAfter   | <b>0=None</b> , 1=Tab, 2=Enter, 3=FldExit (5250)   | Integer |
| Remove char(s) at start                          | print.bcRemFirst  | <b>0</b>   | Integer |
| Remove char(s) at end                            | print.bcRemLast   | <b>0</b>   | Integer |
| Add text before                                  | print.bcAddFirst  |  | String  |
| Add text after                                   | print.bcAddLast   |  | String  |
| Use keyboard mapping                             | print.bcUseKeyMap | <b>true</b> , false  | Boolean |
| Show on status line - Android only               | print.bcShow      | <b>true</b> , false  | Boolean |
| Profile name - Android only                      | print.dwProfile   | <b>Glink</b>   | String  |
| Intent action - Android only                     | print.dwIntent    | <b>no.gar.glink.data</b>   | String  |
| Intent string extra - Android only               | print.dwIntentEx  |  | String  |
| Glink sets Output Mode (M3 Mobile only)          | print.m3glinkmode | <b>true</b> , false  | Boolean |
|  |                   |  |         |
| Card data format string Linea/Infinea - iOS only | print.bcCardFmt   | <b>{0}\t{1}\t{2}\t{3}\t{4}</b><br><b>}</b>   | String  |
|  |                   |  |         |
| <b>Keyboard</b>                                  |                   |  |         |

## Distributing Glink configurations from an EMM/MDM

|                                       |                       |   |         |
|---------------------------------------|-----------------------|---|---------|
| Key input handling - Android only     | keyboard.altInput     | 0=Auto, 1=Standard, 2=Extended, 3=Basic         | Boolean |
| Map shift/F1.. to F13..               | keyboard.F13F24       | <b>true</b> , false                             | Boolean |
| Mappable modifier keys - Android only | keyboard.mapModifier  | true, <b>false</b>                              | Boolean |
| Detect long press keys - Android only | keyboard.useLongPress | true, <b>false</b>                              | Boolean |
|                                       |                       |   |         |
| Macro 1                               | keyboard.macroNN      | Create macro in Glink, export config and copy   | String  |
| Mapped keys                           | keyboard.kc.NN_C      | Create mapping in Glink, export config and copy | String  |

# ***How to install SSL/TLS client certificates and SSH private key files***

---

## ***SSL/TLS Client certificates***

### ***How to import a PSKC #12 certificate (.p12 file)***

If you have specified a file name for the client certificate in the Glink settings, Glink will check if a file with that name exists internally in the Glink file structure. If the file does not exist, Glink for iOS will display an error message and you must import it, see below. On Android, Glink will look for the file in the Glink auto import folder and import it if it exists. If not found, Glink gives the user the option to select a client certificate. If a file is selected, Glink will import the file and save it with the name specified in the Glink Settings regardless of the name of the file selected.

### ***Distribute the p12 client certificate file to the auto-import folder (Android only)***

Use MDM to distribute client certificates to the Glink auto import folder and Glink will pick it up as described above.

### ***Use AppConfig parameter in MDM to download p12 client certificate (Android and iOS)***

When configuring Glink from a MDM, you can use the config.url parameter to specify the URL to a p12 certificate file. If the file name is my\_cert.p12 the certificate will be saved with that name and can be used from any session in the File name client certificate option.



## Send p12 client certificate as e-mail attachment (iOS)

Another way to import the client certificate file (with extension *.glinki*) is to send an e-mail to your device with the file as an attachment.

Glink is set up to accept files with **.glinki** as the file name extension. So if your certificate is named *my\_cert.p12*, rename it to *my\_cert\_p12.glinki*.

On your device, open your mail client, select the mail, and click on the attachment. Glink will then be launched and ask if you want to import the file as a new configuration (your configuration will not be overwritten in this case). The file will be stored internally in Glink as *my\_cert\_p12*. Use this name when you configure the certificate in Glink.

## SSH private key file

### How to import a private key file

Glink will handle files with *.glinki* as the file name extension, i.e *myfile.glinki*. One way to import the SSH private key file, is to send it as an e-mail to your device with *myfile.glinki* as an attachment. Click on the attachment and Glink will ask if you want to import it as a new configuration (your configuration will not be overwritten in this case).

The *myfile.glinki* must have the following format:

```
[file:my_pk_file]
Add the content of the private key here...
```

You can also append this at the end of your *config.glinki* file:

```
[file:my_pk_file]
Add the content of the private key here...
```

Glink will create a file with the file name *my\_pk\_file* with the content supplied.

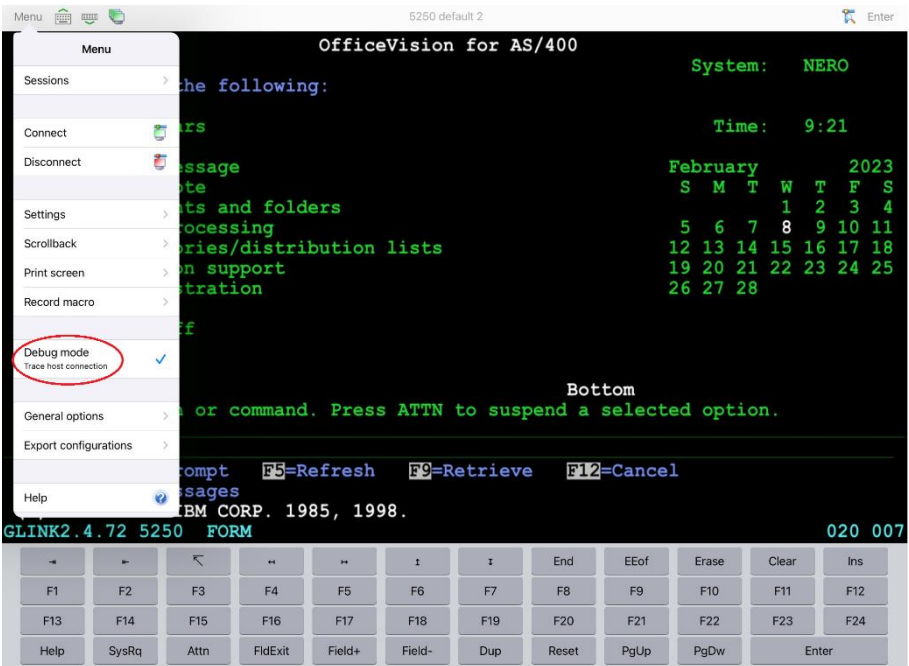
In the Telnet or SSH configuration dialog box, enter *my\_pk\_file* in the *Private key file* field.

# How to export/send a debug trace and configuration file

---

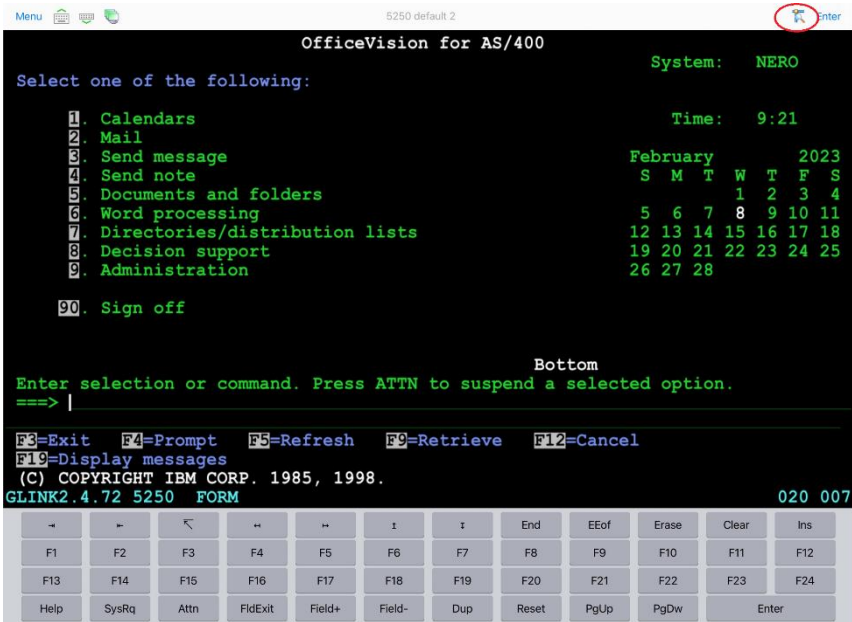
## Enable, capture and export debug file

1. Enable debug mode: Tap Menu -> Debug Mode



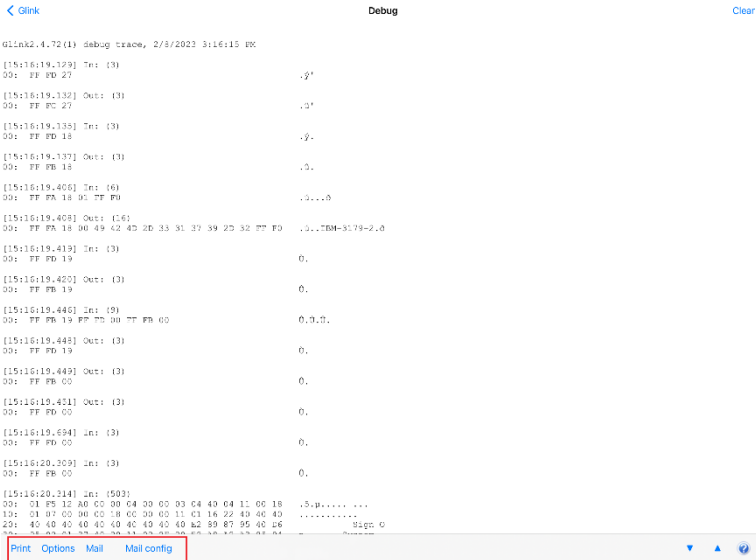
2. Return to emulation screen and tap Disconnect + Connect
3. Interact with the host application until you have collected the request information

## How to export/send a debug trace and configuration file



4. Send debug trace file: tap **Debug icon** -> **Menu** -> **Mail** to send debug file as file attachment.

# How to export/send a debug trace and configuration file



- 5. An alternative might be to print the debug file on an AirPrint printer: **Debug icon -> Menu -> Print**. Tap **Options** to set Print options like *Font size* and *Page orientation*.
- 6. From this menu you can also send the configuration file as an e-mail attachment: **Debug icon -> Menu -> Mail config**

## Export configuration file

The config file (config.glinki) you can you send by e-mail from the device (**Menu -> Export configuration**) or from the Debug window (as described in the previous section).

# ***The GlinkProxy Session Persistence Server***

---

*GlinkProxy* runs on a Windows server, can be located close to the host computer, and is designed to extend the life of sessions between Glink terminal emulation clients and hosts. A device running Glink might go idle, enter power-saving mode or move out of WiFi range and prematurely terminate the session between Glink and the host. The *GlinkProxy* software maintains the session with the host, even if the device goes to sleep or the connection is temporarily lost. This enables Glink to seamlessly resume the session without loss of productivity when it reconnects to *GlinkProxy*.

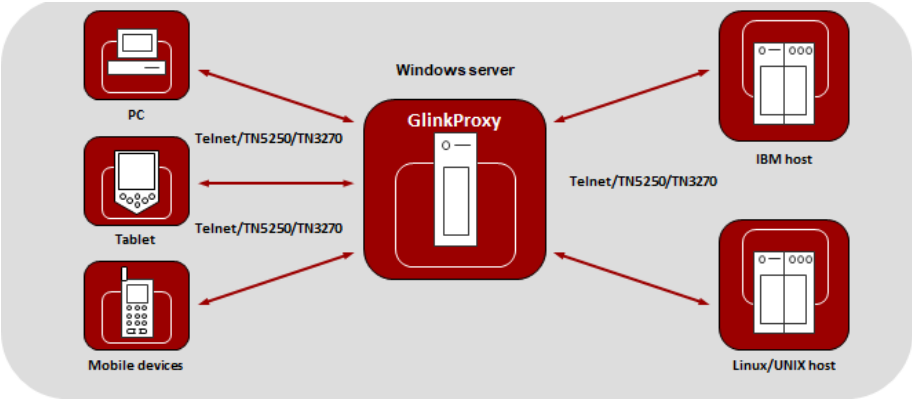
## ***How it works***

*GlinkProxy* is a server application that acts as a link between a Glink terminal emulation client and a host, maintaining an established session with the host even though the client device might go idle or lose WiFi connection. This is how it works:

1. Glink connects to the GlinkProxy application server.
2. GlinkProxy connects to the host application and establishes a session with the host on behalf of Glink and keeps track of the session information.
3. GlinkProxy maintains the host connection, even if the connection between Glink and GlinkProxy goes idle or dead. You can configure how long GlinkProxy should maintain the host connection after the connection between Glink and GlinkProxy has been terminated. GlinkProxy can also differentiate between normal user initiated disconnects and unexpected disconnects with an error.
4. When a Glink client reconnects after having been idle or lost the connection, the GlinkProxy server sends the session information to Glink and Glink continues the session.

The following image provides a conceptual overview of GlinkProxy.

## The GlinkProxy Session Persistence Server



The GlinkProxy application runs on a Windows server that can be located near the host computer. It will allow the traffic from the mobile computers, tablets or PCs with Glink to be routed through the GlinkProxy server to the host. The GlinkProxy server will keep the connection to the host application even if the connection to the client computers with Glink is lost. When Glink reconnects, the session with the host application will resume as if the connection was not lost.

## Delivery

The GlinkProxy application is delivered as a zip-file containing the GlinkProxy executable file and the product documentation.

## Install and setup

Copy the file to the Windows server on which you want to run the GlinkProxy software.

Create a folder for GlinkProxy, for example C:\GlinkProxy, and unzip the GlinkProxy package here.

Start *glinkproxy.exe* without parameters by double-clicking the icon or typing in *glinkproxy.exe* at a command prompt. You will now be requested to enter your license information. Either type it in or copy-and-paste it into the text box. Click "OK" twice and "Allow access" to the network for GlinkProxy when Windows Defender Firewall or other firewall prompts for it.

You now have a running instance of GlinkProxy with default parameters.

With default parameters, GlinkProxy will

Keep the host connection for 30 minutes if the Glink device goes idle, enters power-saving mode or moves out of WiFi range and prematurely terminates the session to

GlinkProxy. If Glink reconnects within 30 minutes, the session is resumed as if it never was disconnected from GlinkProxy.

Disconnect the host connection immediately if the Glink user disconnects the session.

Allow Glink to change the disconnect timeout values.

Not send any keepalive packets unless specified by Glink.

Open the Settings menu if you want to change some of these values and Save the changes.

Below you can read more about the Settings menu, its parameters and how you can set them from the command prompt. You will also find a description of the proxy server parameters that can be set in Glink for iOS and Glink for Android.

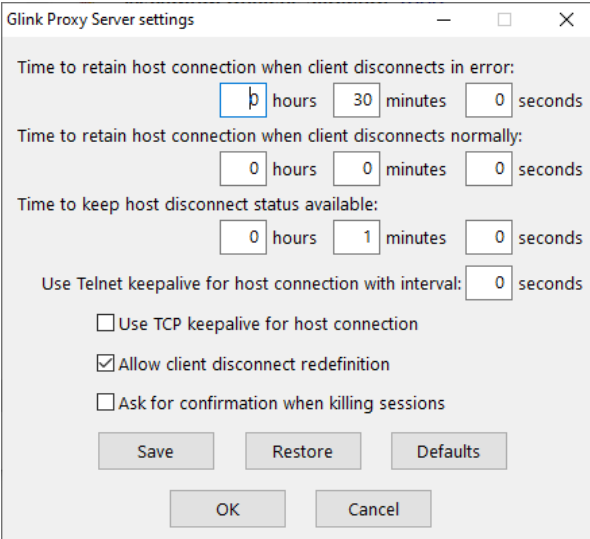
## **Startup**

If GlinkProxy is started without command line parameters, it will use default parameters the first time it is started and saved parameters on all following executions. If started with command line parameters (listed below), the command line parameters will override the previously saved parameters. For simplicity, it is recommended that you click Settings inside GlinkProxy to modify and save parameters and that you start GlinkProxy without any command line parameters.

## **Settings**

Click "Settings" on the menu bar to open the settings menu.

## The GlinkProxy Session Persistence Server



The screenshot shows a dialog box titled "Glink Proxy Server settings" with a standard window control bar (minimize, maximize, close). The settings are as follows:

- Time to retain host connection when client disconnects in error:** 0 hours, 30 minutes, 0 seconds.
- Time to retain host connection when client disconnects normally:** 0 hours, 0 minutes, 0 seconds.
- Time to keep host disconnect status available:** 0 hours, 1 minutes, 0 seconds.
- Use Telnet keepalive for host connection with interval:** 0 seconds.
- Use TCP keepalive for host connection
- Allow client disconnect redefinition
- Ask for confirmation when killing sessions

At the bottom, there are five buttons: "Save", "Restore", "Defaults", "OK", and "Cancel".

In this menu you can configure:

**Time to retain host connection when client disconnects in error.** The server will preserve sessions to the host when the connection is terminated abnormally. This parameter may be used to specify a timeout (in seconds) after which the host connection will be closed (same as /ED command line parameter). Note that the Glink client may redefine this timeout if this has not been disabled (/ACR, /NCR or Allow client disconnect redefinition)

**Time to retain host connection when client disconnects normally.** This parameter specifies how a normal disconnect from the client should be processed. The default is zero, i.e., simply terminate the host connection immediately. Otherwise, the parameter tells the server to keep the connection active for the configured amount of time, allowing the client to reconnect until the timer expires (same as /ND command line parameter). Note that the Glink client may redefine this timeout if this has not been blocked (/ACR, /NCR or Allow client disconnect redefinition)

**Time to keep host disconnect status available.** This parameter specifies how long the server will retain host disconnect status (in seconds). The default value is 3600.

**Use Telnet keepalive for host connection with interval.** This parameter enables use of Telnet keepalives between GlinkProxy and the host. The default is not to use Telnet keepalives, but it can be very useful if the session is idle for long periods, and you want to avoid that you are disconnected by the host due to inactivity.



**Use TCP keepalive for host connection.** This parameter enables use of TCP keepalives between GlinkProxy and the host. The default is not to use TCP keepalives. The actual keepalive interval is a Windows system parameter.

**Allow client disconnect redefinition.** This parameter allows redefinition of the /ND and /ED timeouts by the Glink client. This is the default, but you may use this parameter to override /NCR that might have been saved in Settings/Save.

**Ask for confirmation when killing sessions.** In the Manage sessions menu, you can kill selected sessions. When this option is enabled, the administrator must confirm the intention to kill the specific session.

**Save** Click to save modified parameter values

**Restore** Click to restore parameter values to the saved values

**Defaults** Click to set default parameter values

**OK** Click to save parameters and exit the settings menu

**Cancel** Click to cancel changes and exit the settings menu

## Command line parameters

The GlinkProxy application is provided as a standalone program *glinkproxy.exe*. Its behavior is controlled by parameters set and saved in the Settings menu inside the application, but you can also use the following command line parameters to override the saved parameters.

| Parameter | Description             | Comment   |
|-----------|-------------------------|---|
| /ACR      | Allow Client Redefine   | This parameter allows redefinition of the /ND and /ED timeouts by the Glink client. This is the default, but you may use this parameter to override /NCR that might have been saved in Settings/Save. |
| /DLT nn   | Disconnect List Timeout | This specifies how long the server will retain host disconnect status (in seconds). The default value is 3600.  |
| /DEBUG    | Debug                   | If this is specified then a separate window will open to display debug information for server activity.   |

## The GlinkProxy Session Persistence Server

|          |                           |  |
|----------|---------------------------|--|
| /ED nn   | Error Disconnect timeout  | The server will preserve sessions to the host when the connection is terminated abnormally or when the /ND parameter has kept the session in hold. The /ED parameter may be used to specify a timeout (in seconds) after which the host connection will be closed. Note that the Glink client may redefine this timeout if this has not been disabled by the /NCR command line parameter.  |
| /EK      | Enter Key                 | When this option is specified, the licensing form will be displayed to let you inspect or modify the licensing data. The server will terminate immediately after exiting the dialog  |
| /KT nn   | Telnet KeepAlive          | This parameter enables sending of Telnet keepalive packets every nn seconds from GlinkProxy to the host. The default is not to send Telnet keepalive packets, but it can be very useful if the session is idle for long periods and you want to avoid being disconnected by the host due to inactivity.  |
| /KA      | TCP KeepAlive             | This enables use of TCP keepalives between GlinkProxy and the host. The default is not to use TCP keepalives. The actual keepalive interval is a Windows system parameter.   |
| /NCR     | No Client Redefine        | This parameter prevents redefinition of the /ND and /ED timeouts by the Glink client.  |
| /ND nn   | Normal Disconnect timeout | This specifies how a normal disconnect from the client should be processed. The default is zero, i.e., simply terminate the host connection immediately. Otherwise, the parameter tells the server to keep the connection active for that number of seconds, allowing the client to reconnect until the timer expires. Note that the Glink client may redefine this timeout if this has not been blocked by the /NCR command line parameter. |
| /PORT nn | Port number               | The server listens by default on port number 30855 (0x7887). This parameter may be used  |

|          |               |   |
|----------|---------------|---|
|          |               | to override this with a port number of your choice.   |
| /VERBOSE | Verbose debug | Supplied as well as the /DEBUG parameter this tells the server to display all data sent and received (default is to display only the first 16 bytes of each block). |

The Settings/Save option available while the server is running will save many of these settings and you will then only need to use the above to override the saved values. This applies to /ACR, /DLT, /ED, /KA, /NCR and /ND.

## Glink for iOS/Android Proxy Server Settings

Glink 5250, Glink 3270, Glink VT and Glink for iOS/Android can communicate with TN5250, TN3270, Telnet, TNVIP and Ggate protocols via GlinkProxy to host systems. This is enabled in the **Menu -> Settings -> Proxy server** menu:

| Parameter       | Value   | Description  |
|-----------------|---------|--|
| Use server      | on/OFF  | Check this option to enable communication thru a GlinkProxy server   |
| Address         | ip-addr | Configure the address of the server running GlinkProxy (not the application host)  |
| Port            | nn      | Configure the port number GlinkProxy is listening to. The default is 30855   |
| User disconnect | nn      | Specifies the number of seconds the proxy server should keep the connection to the host application after a user initiated disconnect. The default value is 0, which means that the connection to the host is disconnected immediately. This is what happens without a proxy server. Set this parameter to a non-zero value if you |

## The GlinkProxy Session Persistence Server

|                              |    |   |
|------------------------------|----|---|
|                              |    | want that the proxy server should keep the session to the host the configured number of seconds after a user initiated disconnect   |
| Con-<br>nec-<br>tion<br>lost | nn | Specifies the number of seconds the proxy server should keep the connection to the host application after the connection to Glink is dropped with an error, for example if the device goes idle, enter power-saving mode, or move out of WiFi range. When the device is woken up or the network connection is reestablished, the user can reconnect and resume the session with the host application. |

When Glink is configured to use a proxy server, it will send server address and keepalive settings to the proxy server. The proxy server will use these parameters to connect to the host application server and maintain the connection to it. Keepalive settings, user disconnect and connection lost settings from Glink will override settings in GlinkProxy if GlinkProxy is set up to allow Glink to change these parameters. For all communications, the proxy server is a transparent communication gateway between Glink and the host application.