Honeywell

Enterprise Browser

for Honeywell Mobile Devices powered by Android™

User Guide

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Customer Support

Technical Assistance

To search our knowledge base for a solution or to log in to the Technical Support portal and report a problem, go to www.hsmcontactsupport.com.

For our latest contact information, see www.honeywellaidc.com/locations.

Product Service and Repair

Honeywell International Inc. provides service for all of its products through service centers throughout the world. To obtain warranty or non-warranty service, return your product to Honeywell (postage paid) with a copy of the dated purchase record. To learn more, go to www.honeywellaidc.com and select **Service & Repair** at the bottom of the page.

Limited Warranty

For warranty information, go to www.honeywellaidc.com and click Resources > Product Warranty.

CHAPTER

GET STARTED

This chapter introduces the Enterprise Browser for Android application and includes these sections:

About Enterprise Browser for Android

Start Enterprise Browser

View the About Screen

About Enterprise Browser for Android

Enterprise Browser for Android is a locked-down enterprise Web client application designed for Honeywell Android computers. It provides a controlled Web application environment that helps enterprises increase productivity and reduce IT management expense. You can configure Enterprise Browser for your specific application requirements, and you can design your own Web applications to run through Enterprise Browser to provide your users with an easy-to-use experience.

To restrict access to a limited set of applications, use Enterprise Browser in conjunction with Honeywell Launcher for Android. Use Launcher for Android to Set Up User Profiles. For more information on Launcher for Android, the Launcher for Android User Guide is available for download from the Technical Support Downloads Portal at www.honeywellaidc.com. Enterprise Browser and Honeywell Launcher are installed together from the Client Pack.

For samples and tips on how to program barcode readers or how to print labels and receipts, see the Honeywell SDK for Web available from https://hsmftp.honeywell.com.

Supported Mobile Devices

The following mobile devices support Enterprise Browser as part of Client Pack [ECP, DCP, SCP]:

- Dolphin 75e handheld mobile device powered by Android 6.0
- Dolphin CT50 handheld mobile device powered by Android 6.0
- CK75H/CN75/CN75e handheld mobile devices powered by Android 6.0
- CN51 handheld mobile device powered by Android 6.0
- CT60/CN80/CT40 handheld mobile devices powered by Android 7.0 or higher
- CK65 handheld mobile device powered by Android 8.0 or higher
- Thor VM1A powered by Android 8.0 or higher
- Thor VM3A powered by Android 9.0
- EDA50/EDA50K/EDA60K/EDA70 powered by Android 7.0 or higher
- EDA51/EDA61K/EDA71 powered by Android 8.0 or higher
- RT10A Tablet powered by Android 9.0

The instructions in this document are for installing Enterprise Browser for Android on an Android 6.0 or later mobile device as part of Client Pack [ECP, DCP, SCP]. To install Launcher for Android on an older operating system, contact Honeywell Technical Support for instructions on downloading the correct Client Pack or .zip file.

Limitations

For the Dolphin 75e, Enterprise Browser permits limited, locked-down functionality, but does not lock down other applications.

Client Pack

Enterprise Browser for Android is included in the following client packs:

Enterprise Client Pack (ECP)

This package contains the Honeywell Launcher, Enterprise Browser and Terminal Emulator applications. The package name starts with "ClientAppsInstall".

Note: The ECP package is currently deprecated and replaced with SCP and DCP.

Software Client Pack (SCP)

This package contains the Honeywell Launcher, Enterprise Browser and SmartTE applications. The package name starts with "SoftwareClientPack".

Device Client Pack (DCP)

This package contains Honeywell Launcher and Enterprise Browser. The package name starts with "DeviceClientPack".

Note: DCP for CN80G device contains Launcher and Enterprise Browser only.

About Enterprise Browser Licensing

Using Enterprise Browser requires an application license. There are two license types for embedded software.

- Perpetual License- Perpetual licenses operate without expiration and require additional purchase of maintenance to receive version upgrades and tech support.
- **Term License** Term licenses operate for a fixed period and include maintenance and tech support.

Select the suitable license depending on your requirement:

- Perpetual licenses have the potential of deploying fewer licenses; however, typically the addition of maintenance license is required at least once in the life cycle of a device.
- Term licenses provide the most functionality. They require license deployment at least once every three years. If deploying licenses over time works with your business model, then Term license is likely the best solution for you.

Starting from Q3 2020, Honeywell began pre-licensing Client Pack software on most devices with either a Perpetual or Term license.

License Types

The different types of licenses available are:

- Demo Licenses provide software operation for a short period of time, typically 60 days.
- **Perpetual Licenses** operate without expiration for the software version that is authorized and include one year of maintenance. Perpetual license SKUs typically end with -001 (example: DCP-001).
- Maintenance Licenses provide software version upgrades and tech support for a
 defined period. SKUs typically end with -SFTx, where x indicates the number of
 years (example: DCP-SFT3). Maintenance Licenses are to be used in conjunction
 with Perpetual licenses.
- Term Licenses provide software operation, software version upgrades, and tech support for a defined period. SKUs typically end with -SFTx, where x indicates the number of years (example: DCP-SFT3). Term and Maintenance licenses are delivered via the same SKU.
- Subscription or Software As A Service does not require deployment of a license.
 The customer receives access to a connection for a defined period. Access is typically controlled through username and password.

 Example of Subscription service: Operational Intelligence

If a demo version of the Enterprise Browser application was preinstalled on your Honeywell mobile device, you need to purchase an application license to use Enterprise Browser once the demo period (60 days) has expired.

Some devices are pre-licensed with one year term. When the term ends, you must purchase a new license for the software to work.

If Enterprise Browser was not preinstalled on the mobile device, you need to install the application and purchase an application license to use Enterprise Browser once the demo period (60 days) has expired. See Purchasing Licenses for details.

If you are upgrading your mobile device from Android 4.4 to Android 6.0, you do not need to reinstall the license. The license installed for Android 4.4 will work for Android 6.0.

About Upgrades

To upgrade Enterprise Browser on the mobile device, you must have a valid application license and an active maintenance license installed. Application licenses include one year of maintenance upgrades starting from the time the license is activated. Maintenance must be renewed before the end of the first year or before the current maintenance license expires.

About Demo Licenses

After you install Enterprise Browser, the application runs in demo mode for 60 days, or until you purchase an application license.

After 60 days, a license expired message box appears informing you the free trial period has come to an end. Select OK to dismiss the message and close the application.

For information on purchasing and installing licenses, see Purchasing Licenses.

How to Identify the Active License Type

If a license is active on the Honeywell mobile device, you can identify the license type from the About screen in Enterprise Browser.

To View License Information

- 1. Open the Enterprise Browser app.
- 2. Touch the in the upper right corner.
- 3. Select **About**. The license type is identified in the Type field and in the extension of the Feature name.
 - a. Clientpack.d.demo
 The ".d.demo" extension indicates a demo license.
 - b. Clientpack.d

 The ".d" extension indicates a permanent application license.
 - c. Clientpack.maint.d

 The ".maint.d" extension indicates a maintenance license.

About Honeywell License Manager

You can use the Honeywell License Manager to download and distribute your Enterprise Browser licenses.

To Download Honeywell License Manager

- 1. Go to www.honeywellaidc.com.
- 2. Select Resources > Downloads > Software.
- 3. Click on the Technical Support Downloads Portal link https://hsmftp.honeywell.com.
- 4. Create an account if you have not already created one. You must login to download the software.
- 5. Install the *Honeywell Download Manager* tool on your PC prior to trying to download any files. The link for the Honeywell Download Manager is located in the Note above the software tree.
- Locate the Honeywell License Manager in the Software directory:
 Software > Software and Tools > Emulator Browsers and Tools > License Manager > Current
- 7. Select **Download**. Follow the prompts to download the application.
- 8. Refer to the License Manager online help for information on working with licenses.

Install Enterprise Browser on Your Mobile Device

Note: Before attempting to download and install software, see Supported Mobile Devices and About Enterprise Browser Licensing

If the Client Pack [ECP, DCP, SCP] did not come preinstalled on the mobile device, you can download the software bundle from www.honeywellaidc.com. The client pack is supported for Android 6.0 and later.

For a list of prerequisites for each device, refer to the software release notes.

Note: If you are upgrading or downgrading Enterprise Browser from a previously installed version with a .zip file, the installation file must have a different name than the previously installed version. If the file does not have a different name, the installation will fail.

Note: The mobile device must have power for the entire length of the installation process or it could become unstable. Do not attempt to remove the battery during the process.

To Download Client Pack [ECP, DCP, SCP]

- 1. Go to www.honeywellaidc.com.
- 2. Select Resources > Downloads > Software.
- 3. Click on the *Technical Support Downloads Portal* link, https://hsmftp.honeywell.com.

- 4. Create an account if you do not already have one. You must login to download the software.
- 5. Install the *Honeywell Download Manager* tool on your PC prior to trying to download any files. The link for the Honeywell Download Manager is located in the Note above the software tree.
- 6. Navigate to the applicable device folder and then locate the supported Client Packs. Example: Selecting **Computer Devices > Handheld > Device Name > Android Version** provides links to the available Client Packs.
- 7. Select the Client Pack software bundle for your device.
- 8. Select **Download**. Follow the prompts to download the application.

To Install Client Pack [ECP, DCP, SCP]

Note: In order to access the folder **\IPSM\honeywell\autoinstall**, Provisioning Mode has to be turned on.

1. Copy the Client Pack .zip file from your PC to the \IPSM\honeywell\autoinstall and/or \Internal shared storage\honeywell\autoinstall folder on the mobile device.

Note: If you keep the .zip file in IPSM\honeywell\persist, it will persist after enterprise reset.

- 2. Tap All Apps > AutoInstall.
 - Verify Enable AutoInstall has a check mark in the box.
- 3. Tap Verify apps.
 - Verify Verify apps has a check mark in the box.
- 4. Click on Packages upgrade.

Start Enterprise Browser

Note: You must connect your mobile device to a wireless network before you can use Enterprise Browser.

To AutoRun Enterprise Browser for Android

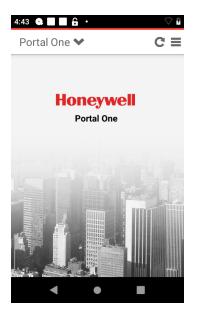
To run Enterprise Browser for Android (AutoRun on launch), see AutoRun via HoneywellLauncher.XML File.

To AutoRun Enterprise Browser from Power Tools

- 1. Open the **Power Tools** Application.
- 2. Tap Configure AutoRun.
- 3. Press and hold Enterprise Browser.
- 4. Click on **OK** when the pop up is displayed.

To launch Enterprise Browser for Android manually

From the All Apps screen, tap the Enterprise Browser icon 🗎.



About the Action Bar

Use the action bar to choose a portal, refresh the application, and change the Enterprise Browser settings.



Action Bar Features

Icon	Feature	Description
N/A	Portal Display Name	The name of the portal currently open.
~	Portal Selection	Lets you choose which portal you want to view if more than one portal is enabled.
⊞	Whitelist	Displays a list of whitelisted URLs. Select a URL from the list to load it on the portal. (Advanced Action bar only.)
C	Refresh	Refreshes the URL of the current active portal. You can also swipe from top to bottom (pull down) if Pull to Refresh is enabled.
	Main Menu	Configures Enterprise Browser settings.

About the Advanced Action Bar

Use the advanced action bar to type a URL in the search box, portal drop-down to switch between portals to browser or vice versa, multi-tab option to open multiple sessions, get list of URL that are whitelisted, refresh the application, and change the Enterprise Browser settings.



Note: The advanced action bar becomes active when the Enable Enhancement setting is turned on in Advanced settings.

About Multiple Browser Sessions

The user can open a maximum of four (4) browser sessions and the latest four sessions will be visible in the tabs. Users can select the session to run in the forefront by touching the corresponding tab. Users can delete corresponding tab by clicking on (X) icon on right top corner of each tab. Default homepage will not be added into browser sessions.

Show Whitelisted URL to End User

A URL whitelisted icon is displayed on the Action bar to indicate which URLs and domains are whitelisted. When the user clicks the icon, it will pop up Whitelisted URL/domain list. When the user selects an individual URL from the list, it will be loaded on the portal. Loaded URLs will also be added to multi-tab as well.

How to Exit Enterprise Browser

To exit Enterprise Browser, you need to log out of the application. Honeywell Launcher for Android continues to run.

The method you use depends on the user mode you want to exit from:

- Exit Enterprise Browser from Multiple User Mode
- Exit Enterprise Browser from Single User Mode

Exit Enterprise Browser from Multiple User Mode

- 1. From the Main Menu, select Log Out.
- 2. When you are prompted to log out, tap **OK**. Enterprise Browser closes and the Honeywell Launcher for Android Login screen appears.

Exit Enterprise Browser from Single User Mode

- 1. From the Main Menu, select **Switch User**. The Switch User screen appears.
- 2. Type administrator credentials to sign in to the administrator account or tap **Cancel** to return to Enterprise Browser.

View the About Screen

Tap = and select **About**.

Information about the version number and the build date is displayed.

CHAPTER

SET UP USER PROFILES

This chapter discusses the user profiles and configuration of Enterprise Browser:

Set Up User Profiles for Enterprise Browser

Configure the User Profile

Configure the Whitelist

Configure Enterprise Browser to AutoRun

Set Up User Profiles for Enterprise Browser

Create user profiles to restrict access to a limited set of applications. You need to use Honeywell Launcher for Android to set up the user profiles for Enterprise Browser for Android.

Note: Before you set up user profiles, make sure you do not have any applications set to AutoRun in Power Tools.

- 1. Start Honeywell Launcher for Android.
- 2. Configure the User Profile:
 - Single user, single application
 - · Single user, multiple application
 - Multiple user, single application
 - · Multiple user, multiple application
- 3. Configure the Whitelist
- 4. (Optional) Configure Enterprise Browser to AutoRun.
- 5. Configure Enterprise Browser
- 6. Reboot the Mobile Device if you are done configuring both Honeywell Launcher and Enterprise Browser.

Start Honeywell Launcher for Android

When you start Honeywell Launcher for Android for the first time, you can log in as an administrator. As an administrator, you can create user profiles.

Note: The below configurations are made in the Launcher. See the *Launcher for Android User Guide* for more information on Launcher for Android.

- 1. Tap All Apps > Honeywell Launcher.
- 2. To enable Honeywell Launcher for Android, tap **Status**.
- 3. When you are prompted to enable Honeywell Launcher for Android, tap OK.
- 4. In the **User Name** field, type **admin**.
- 5. In the **Password** field, type **admin**.
- Tap Login. You are logged in to Honeywell Launcher for Android as an administrator.

Configure the User Profile

You can configure a user profile for a single user or multiple users. This procedure assumes you have already created your users in Honeywell Launcher for Android.

- 1. Start Honeywell Launcher for Android.
- 2. Tap and select **Settings**.

- 3. From the admin Settings, tap **Application Mode** and select **Single Application Mode** or **Multiple Application Mode**.
- 4. Tap User Mode and select Single User or Multiple User.
- 5. Tap Manage Users.
 - If you have selected **Single User**, the default profile automatically opens.
 - If you have selected **Multiple User**, you need to select a user from the list to configure.
- 6. Set the **Permissions** you want the enable.
- 7. (Optional) To configure Enterprise Browser for Android to automatically run when you reboot the mobile device, select **Configure AutoRun**.

Configure the Whitelist

Add applications to the whitelist to enable access to only specific applications on the mobile device. This feature prevents users from accidentally changing system settings and helps ensure that users stay focused and as productive as possible.

- 1. From the user profile **Permissions** screen, tap **Manage Application Whitelist**. The Configure White List screen appears.
- Select the applications you want to add to the white list.
 If you are configuring the profile for a single application, only select Enterprise Browser.
- 3. To save your changes, tap **Finish**.
- 4. Tap Back (←) until you exit the Settings menu in Honeywell Launcher for Android. You should see this screen:



Configure Enterprise Browser to AutoRun

You can configure Enterprise Browser to automatically start when the mobile device starts in single application mode.

Note: You can also follow the instructions to enable AutoRun via HoneywellLauncher.XML File.

- 1. Configure the User Profile and select the Configure AutoRun option.
- 2. To log out of Honeywell Launcher for Android, tap = and select Log Out.
- 3. When you are prompted to log out, tap **OK**.
- 4. Log in to Honeywell Launcher for Android as the user you just configured.
- 5. Tap and select **Settings**.
- 6. From the Settings screen, tap Auto Run Apps.
- 7. From the AutoRun Configure screen, select **Enterprise Browser**.
- 8. Exit the configuration screens.

Reboot the Mobile Device

After you configure Honeywell Launcher for Android and Enterprise Browser for Android, reboot the mobile device to make sure it works as expected.

- 1. Press and hold the **Power** button and then select **Reboot** from the menu.
- 2. When prompted, tap **OK**. The mobile device reboots and opens Enterprise Browser for Android.

CHAPTER 3

CONFIGURE ENTERPRISE BROWSER

This chapter discusses the configuration of Enterprise Browser:

How to Scan Barcodes from Enterprise Browser

How to Control the SIP in HTML Pages

How to Configure Enterprise Browser

How to Configure Multiple Mobile Devices

How to Scan Barcodes from Enterprise Browser

Enterprise Browser supports scanning from various scanners and imagers. There are two methods for scanning from Enterprise Browser. The method you use may affect how you design your web pages:

- Wedge: Press the scan button or pull the trigger to read a barcode. If a valid barcode is successfully decoded, the data returned is wedged into the keyboard buffer. The control with the current focus receives the data. You do not need to add unique tags or code to the HTML page.
- Honeywell Mobility SDK: Use a set of JavaScript interfaces to create applications.
 You can download the SDK from the Software tab on the mobile device product page.

How to Control the SIP in HTML Pages

Enterprise Browser includes two JavaScript methods that let you control the behavior of the Soft Input Panel (SIP) in the HTML pages:

sip.show(): shows the SIP

• sip.hide(): hides the SIP

Use these methods to show or hide the SIP depending on which field in your HTML page has focus. For example, if your HTML page requires typed data for an input field, use the sip.show() method in the onfocus event for that field so the SIP appears when that field has focus.

How to Configure Enterprise Browser

Browser Settings Menu	Description
Configuration	Configures the storage, options, and location information.
Security	Configures the web security settings.
Appearance	Configures the appearance of the web pages.
Portals	Configures the settings for up to four portals.
Advanced	Helps the user access the URL, Domain and Wild card for enhanced browsing and added search engine functionality.
Restore Default Settings	Restores Enterprise Browser to the original default settings.

Note: Use the options under the Browser Settings menu to configure the Enterprise Browser.

Note: The settings menu is only shown when the Enterprise Browser is started from the Launcher in admin mode.

Configuration

Configures information such as the storage paths, and how information appears in Enterprise Browser. The Configuration section in Enterprise Settings includes these commands:

App Cache Path

Geolocation Database Path

Enable Exit Password

Exit Password

Function Keyboard

Auto-hide Function Keys

Block Pop-ups

Load Network Images

Pull to Refresh

Media

Back Button Remap

Back Long Press Remap

Text Encoding

Enable Geolocation

Location Access

Location Mode

Clip Board Options

App Cache Path

Sets the path to the Application Cache files. Options for this setting are Internal or External. The internal location is predetermined and the external location is a microSD card (if installed).

Default Setting

Internal

XML Key

pref_key_storage_app_cache_path

Geolocation Database Path

Sets the path for where to save the Geolocation Databases. Options for this setting are Internal or External. The internal location is predetermined and the external location is a microSD card (if installed).

Default Setting

Internal

XML Key

pref_key_storage_geolocation_path

Enable Exit Password

Users must enter an exit password to exit the Enterprise Browser. Clicking on the exit option shows the exit popup. The user must enter the correct exit password to exit.

If the back key to the exit option is enabled, pressing the back key for a long time will show the exit popup.

Default Setting

False

XML Key

pref_key_options_exit_pw_enable

Exit Password

Use this option to set the exit password when using the Enable Exit Password option.

Default Setting

12345678

XML Key

pref_key_options_exit_password

Function Keyboard

This option shows the function button in the action bar. The user can show/hide the function keyboard by clicking on this button.

Default Setting

False

XML Key

pref_key_function_keyboard

Auto-hide Function Keys

Clicking on a function key in in the function keyboard will automatically hide the function keyboard.

Default Setting

False

XML Key

pref_key_function_keyboard_auto_hide

Block Pop-ups

Blocks whether Javascript can open windows automatically. Options for this setting are enabled or disabled.

Default Setting

Disabled

XML Key

pref_key_options_block_popups

Load Network Images

Determines if images appear on the web pages. Options for this setting are enabled or disabled.

Default Setting

Enabled

XML Key

pref_key_options_load_network_images

Pull to Refresh

Determines whether swiping the screen from top to bottom refreshes the page. Options for this setting are enabled or disabled.

Default Setting

Enabled

XML Key

pref_key_options_pull_down_refresh

Media

Determines whether Browser automatically plays audio in the web page. Options for this setting are enabled and disabled.

Default Setting

Enabled

XML Key

pref_key_options_media

Back Button Remap

When you run Enterprise Browser without Launcher, clicking the Back button exits the Browser. Use the Back Button Remap setting to remap the Back button to go back by one page instead of exiting Browser. Options for this setting are enabled (goes back one page) or disabled (exits Browser). This setting takes effect even when Browser works with Launcher.

Default Setting

Disabled

XML Key

pref_key_back_key_to_page

Back Long Press Remap

Remaps the Back button long press to exit the browser. This setting is only available when Back Button Remap is enabled. Options for this setting are enabled and disabled.

Default Setting

Disabled

XML Key

pref_key_back_key_to_exit

Text Encoding

Sets the default text encoding to use when decoding HTML pages. Options for this setting are UTF-8, ISO-8859-1, GBK, Big5, and ISO-2022-JP.

Default Setting

UTF-8

XML Key

pref_key_options_text_encoding

Enable Geolocation

Enables or disables Geolocation.

Default Setting

Enabled

XML Key

pref_key_location_enable_geolocation

Location Access

Sets the permissions for how an application accesses the device location. Options for this setting are Deny Forever, Allow Forever, and Prompt User.

Default Setting

Prompt User

XML Key

pref_key_location_access

Location Mode

Turns Google's location service on or off. You may want to turn off location services to reduce battery usage.

Default Setting

On

XML Key

Only allowed from the UI

Clip Board Options

Allows Clipboard options in webpages.

Default Setting

True

XML Key

pref_key_enable_copy_paste

Security

Configures the Webview security settings. The Security section in Enterprise Settings includes these settings:

Enable JavaScript

Do Not Track

Handle SSL Errors

Accept Cookies

Accept File Scheme Cookies

Clear Cache

Clear All

Allow File Input

Clear Cookies

Enable JavaScript

Enables or disables support for JavaScript.

Default Setting

Enabled

XML Key

pref_key_security_javascript

Do Not Track

Enable or disable the Do Not Track setting. When enabled, web sites and advertisers are not supposed to track and store any information without permission.

Default Setting

Disabled

XML Key

pref_key_security_do_not_track

Handle SSL Errors

Sets how SSL certificate errors are handled on a web page. Options for this setting are Deny Forever, Allow Forever, and Prompt User.

Default Setting

Prompt User

XML Key

pref_key_security_handle_ssl_errors

Accept Cookies

Sets whether or not to accept cookies. Options for this setting are enabled or disabled.

Default Setting

Enabled

XML Key

pref_key_cookies_history_accept

Accept File Scheme Cookies

Sets whether or not to accept cookies for the file scheme URLs. Options for this setting are enabled or disabled.

Default Setting

Enabled

XML Key

pref_key_cookies_history_accept_file_scheme

Clear Cache

Clears the cache on start of Enterprise Browser.

Default Setting

False

XML Key

pref_key_clear_cache_on_start

Clear All

Clears all of the browser's cookies and history. Options are OK and Cancel.

XML Key

Only UI

Allow File Input

Allows to upload files from device to web pages when file input is required.

Default Setting

False

XML Key

pref_key_allow_file_input

Clear Cookies

Clears the cookies on the start of Enterpise Browser.

Default Setting

False

XML Key

pref_key_clear_cookies_on_start

Appearance

Configures the appearance of the web pages.

Desktop View

Auto-fit Pages

Action Bar Mode

Hide System Bar

Select System Bar

User Agent String

Settings Password

Browser Orientation

Settings Option

Print Option

Desktop View

Enables or disables the ability to view the desktop version of web pages. Mobile versions of the web pages are requested by default.

Default Setting

Disabled

XML Key

pref_key_appearance_desktop_view

Auto-fit Pages

Enables or disables whether the web pages automatically scale to fit the width of the display screen.

Default Setting

Enabled

XML Key

pref_key_appearance_auto_fit_pages

Action Bar Mode

Configures the action bar (Dolphin 75e only) so that it is hidden, visible, or only visible when you swipe the screen.

Action Bar Modes

State	Description
Show	The action bar is visible.
Hide	The action bar is hidden. The operator cannot make the action bar visible.
Swipe The action bar is hidden. Swipe the action bar icon () in the upper left to show the action bar. Swipe the action bar to hide it.	

Default Setting

Show

XML Key

pref_key_appearance_bar_mode

See Also

About the Action Bar

Hide System Bar

By setting this option to True, Enterprise Browser can hide the navigation bar, system bar, or both.

Default Setting

False

XML Key

pref_key_full_screen_mode

Select System Bar

Enterprise Browser hides the navigation bar, system bar, or both by configuring values 1, 2 and 3.

- 1. Navigation bar
- 2. Status bar
- 3. Both

Note: The Select System Bar is applicable only when the Hide System Bar is enabled.

Default Setting

1

XML Key

pref_key_systembar_remove_mode

User Agent String

Configures User Agent String to load webpages.

Default Setting

Blank

XML Key

pref_key_user_agent_string

Settings Password

Use this option to modify the Settings Password.

Default Setting

cr52401

XML Key

pref_key_settings_pw

Browser Orientation

Use this option to choose between the orientation modes for the Enterprise Browser.

Values

- O- Works according to the auto rotate option on the device.
- 1-Works according to the sensor, even if auto rotate option is disabled.
- 2-Portrait
- 3-Landscape
- 4-Reverse Landscape

Default Setting

0

XML Key

pref_key_browser_orientation_mode

Settings Option

When used as stand alone, provides Settings Option in the browser menu. Click on the Settings Option and enter the password when prompted on the screen.

Default Setting

False

XML Key

pref_key_menu_setting_option_enable

Print Option

Provides Print Option in the browser menu. Click on the Print option to print any content from web page.

Default Setting

False

XML Key

pref_key_print_option_enable

Portals

A portal is comparable to a tab in a desktop browser. Portals provide independent views of web pages and allow a user to have multiple web applications open simultaneously. You can define up four portals. Use these settings to configure each portal you want to use:

Enable (Portal)

Display Name

Homepage

Enable Zoom

Zoom Controls

Initial Scale

Use Wide View Port

Min View Port Width

Text Scaling

Minimum Font Size

Default Font Size

Physical Key Map

Enable (Portal)

Enable or disable portal two through four. Portal one is always enabled.

Default Setting

Enabled

XML Key

pref_key_portal_<no>_enabled

Display Name

A user friendly name to identify the web portal.

Default Setting

Portal (#)

XML Key

pref_key_portal_<no>_name

Homepage

Sets the start page for the portal.

Default Setting

file:///android_asset/portalOneHome.html

file:///android_asset/portalTwoHome.html

file:///android_asset/portalThreeHome.html

file:///android_asset/portalFourHome.html

XML Key

pref_key_portal_<no>_homepage

Enable Zoom

Enables or disables the ability to zoom in or out in the portal.

Default Setting

Enabled

XML Key

pref_key_portal_<no>_accessibility_zoom

Zoom Controls

Zoom Control enables on-screen zoom controls for a particular portal in Enterprise Browser. Zoom Controls work only if the Enable Zoom option is enabled.

Default Setting

True

XML Key

pref_key_portal_<no>_enable_zoom_controls

Initial Scale

Initial scaling helps desktop pages fit into the Enterprise Browser screen.

Default Setting

False

XML Key

pref_key_portal_<no>_initial_scale

Use Wide View Port

By setting this value to True, Enterprise Browser takes the width from the web page meta-tags. If the value is set to False, the web page width will be equal to the screen width. If this option is disabled, then Initial Scale will be also disabled.

Default Setting

True

XML Key

pref_key_portal_<no>_use_wide_viewport

Min View Port Width

This option helps to set the web page to a constant zoom level in a portal. This option can only be used when Use Wide View Port is disabled.

Default Setting

220

XML Key

pref_key_portal_<no>_min_viewport_width

Text Scaling

Sets the text size scaling while still retaining the formatting of the rest of the web page. Values for this setting range from 50 to 200 percent.

Default Setting

100

XML Key

pref_key_portal_<no>_text_size_text_scaling

Minimum Font Size

Sets the minimum font size. Values for this setting range from 1 to 24 points.

Default Setting

1

XML Key

pref_key_portal_<no>_text_size_text_minimum

Default Font Size

Sets the default font size. Values for this setting range from 1 to 72 points.

Default Setting

16

XML Key

pref_key_portal_<no>_text_size_text_default

Physical Key Map

You can map function keys on the device to different portals and launch the portals using those function keys.

Note: Applicable only to devices with physical keyboard.

Default Setting

Blank

XML Key

pref_key_portal_one_physical_keymap

Advanced

Advanced Settings help the user access the URL, Domain, and Wildcard for enhanced browsing and added search engine functionality.

The following can be used to configure the Advanced Settings:

Enable Enhancement

Search Engine

Whitelist URLs/ Domain

Homepage

Rule Set

Switch Portal

Enable Zoom

Zoom Controls

Text Scaling

Minimum Font Size

Default Font Size

Reload Web Page

Dynamic URL Support

Copy/Paste/Share Options

Multi-Language Support

Enable Enhancement

Provides the ability in the configuration stage to select to enable or disable browsing. When enabled, other attributes (Search Engine, Whitelist URLs/ Domain, Homepage, Switch portal, allow internet access) will also be enabled. If this option is disabled, then only user will get access for browsing.

Default Setting

Disabled

XML Key

pref_key_enhancement_enable_enhancement

Search Engine

Provides four search engines (Google, Yahoo, Bing and None) for browsing.

Note: If the search engine is set to "None", the device will not allow browsing the internet on the device.

Default Setting

Google

XML Key

pref_key_storage_search_engine

Whitelist URLs/ Domain

An administrator can add a URL as whitelisted in three ways:

- Whole URL: need to add whole URL (example: https://www.honeywellaidc.com) as a rule to get access.
- Domain: need to add domain (example: honeywellaidc.com) as a rule so that all URLs related to that domain will get access.
- Wildcard: a symbol such as '%' can be placed at the end of a rule to allow for all characters after the last letter in the rule to be allowed.

For example: a rule indicated as "https://honeywellsps.my.salesforce.com/a" would allow all URLs starting with "https://honeywellsps.my.salesforce.com/a" to be accessible. Enforcement of this rule would allow for users to access:

- 1. https://honeywellsps.my.salesforce.com/a2mA000000Ujuy
- 2. https://honeywellsps.my.salesforce.com/a2mA000000Ujuy
- 3. https://honeywellsps.my.salesforce.com/a5mX000000Zjun
- 4. https://honeywellsps.my.salesforce.com/a7mV00002390Xjuf
- 5. https://honeywellsps.my.salesforce.com/a7mV00002390Xjuf

Whereas the following URLs would be blocked:

- 1. https://honeywellsps.my.salesforce.com/b2mA000000Ujuy
- 2. https://honeywellsps.my.salesforce.com/v2mA000000Ujuy
- 3. https://honeywellsps.my.salesforce.com/L5mX0000000Zjun

Delete or modify URL:

URL rule implemented first then domain rule applied. If URL is not allowed but the domain is, then the domain rule is applied and access is allowed.

XML Key

pref_key_whitelist_URL_Domain

Homepage

Set homepage URL already whitelisted.

Default Setting

file:///android_asset/enhancementHome.html

XML Key

pref_key_enhancement_homepage

Rule Set

The Rule Set contains all the possible rules that the customer defines related to Whitelisting URLs and Domain Names.

Example:

Note: Rule Name is a unique identifier and once an administrator creates a Rule Set, the user cannot update the Rule Name.

One rule (Whitelisted URLs) comes under only one Rule Set. An administrator can Create, Modify, and Delete Rule Set.

Creating a Rule Set options:

Features	Description
Rule Name	Set Rule Name (requires unique identifier)
Mobile Data	Enable/Disable WiFi (default: Enable)
Select URLs (whitelisted)	Selection of URLs as a rule whitelisted
Days	Selection of Days (default: all days selected)
Timing	Selection of Timing. An Administrator can select multiple time ranges (default: no time range selected)

Example: If https://www.honeywellaidc.com comes under a certain Rule Set, it will check the following parameter:

- 1. WiFi: If WiFi network is active and "WiFi" option is enabled, then it will allow access to that URL; otherwise, it will be blocked.
- 2. Mobile Data: If Mobile data network is active and "Mobile Data" option is enabled then it will allow access to that URL, otherwise blocked.
- 3. Days: URL will be accessible on selected days only.
- 4. Time: URL will be accessible during the selected time range, otherwise blocked.

Note: If no time range is selected, the URL will be accessible at any time.

With Edit Rule Set, the user can edit all fields except Rule Name as it is unique identifier.

The user can delete Rule Set as well. If there is no Rule Set created, "Edit Rule" and "Delete Rule" will be disabled.

If there is no leftover Whitelisted URL, then "Create Rule" will be disabled.

If there is no Whitelisted URL present, then "Rule" will be disabled in state and viceversa.

If Default Homepage comes under a certain Rule Set, then it follows all Rule Set conditions loads. If a URL is restricted because of Rule Set, it will show (file:///android_asset/enhancementHome.html) as homepage.

Switch Portal

Enables or disables portal options with URL whitelisting.

Default Setting

Disabled

XML Key

pref_key_switch_portals

Enable Zoom

Enables or disables the ability to zoom in or out.

Default Setting

Enabled

XML Key

pref_key_enhancement_accessibility_zoom

Zoom Controls

Accessibility to use standard Android zoom control to zoom in or out.

Default Setting

Enabled

XML Key

pref_key_enhancement_enable_zoom_controls

Text Scaling

Sets the text size scaling while still running the formatting of the rest of the web page. Values for the setting range from 50 to 200 percent.

Default Setting

100

XML Key

pref_key_portal_<no>_text_size_text_scaling

Minimum Font Size

Sets the minimum font size. Values for this setting range from 1 to 24 points.

Default Setting

1

XML Key

pref_key_enhancement_text_size_text_minimum

Default Font Size

Sets the default font size. Values from this setting range from 1 to 72 points

Default Setting

16

XML Key

pref_key_enhancement_text_size_text_default

Reload Web Page

Web page will reload when internet connectivity is available and provides three options (Never, Network Connected, Internet Connected).

An error message is displayed on the screen when the device is out of network coverage area and the web page will reload automatically when the network is available.

Note: No need of refresh option to check network availability.

Default Setting

Never

XML Key

pref_key_portal_<pno>_auto_reload

Dynamic URL Support

Dynamic URL support is triggered when the device tries to access an unauthorized URL, i.e., a URL not on the whitelist.

An error message will pop up on trying to open the URL. An option to view all URLs on the whitelist will also be made available.

Copy/Paste/Share Options

Although the device is very similar in function to any other Android device, the response to certain gestures is different from that of other Android devices.

The Copy, Paste, and Share options will not work the same way as on other Android devices, i.e., the Copy, Paste, and Share options will not be available upon long press on the screen of the device.

Multi-Language Support

The Enterprise Browser has a set of different languages in which the user can interact with the device. The list of languages available are:

Spanish, German, French, Thai, Bahasa Malaya.

The language in which user prefers to interact with in the Browser must be set on the device first.

Restore Default Settings

Reverts the settings of Enterprise Browser back to the default values. Options for this setting are **OK** and **Cancel**.

How to Configure Multiple Mobile Devices

After you configure all users for a device (as an administrator), you can export the configuration file to configure other devices.

To use the configuration file to configure other mobile computers, you need to:

Copy the HoneywellLauncher.xml File to Your PC.

Copy the EnterpriseBrowser.xml File to Your PC.

Configure Multiple Mobile Devices.

Copy the HoneywellLauncher.xml File to Your PC

- 1. Configure Honeywell Launcher for Android on your mobile device.
- 2. Start Enterprise Browser.
- 3. To save the .xml file to your computer, tap and tap **Export Configuration**. The .xml file is saved to the /sdcard/honeywellLauncher folder.
- 4. Turn off Honeywell Launcher for Android.
- 5. Connect the mobile device to your PC with a USB cable.
- 6. On your mobile device, set USB preferences to File Transfer.
- 7. On your PC, browse to \Internal shared storage\HoneywellLauncher\ and copy HoneywellLauncher.xml to your PC.

Copy the EnterpriseBrowser.xml File to Your PC

Use Power Tools to generate the EnterpriseBrowser.xml file.

- 1. On the mobile device, run Power Tools > EZConfig.
- 2. Click the menu on the top left corner and select **Generator**.
 - If this is the first time Enterprise Browser has been launched, the xml file is automatically created and there is no need to generate the xml file.
- 3. Configure Enterprise Browser on your mobile device
- 4. Connect the mobile device to your PC with a USB cable.
- 5. On your mobile device, turn on USB storage.
- 6. On your PC, browse to IPSM/honeywell/ezconfig/generated/ and copy EnterpriseBrowser.xml to your PC.

Configure Multiple Mobile Devices

You can create bar codes with the EZConfig Editor or copy the HoneywellLauncher.xml and EnterpriseBrowser.xml files to other mobile computers to configure multiple computers.

If you are copying the HoneywellLauncher.xml and EnterpriseBrowser.xml file to a mobile device, you need to copy it to the persist folder. If you have not scanned an EZConfig barcode with your mobile device, you need to manually create the persist folder. The persist folder does not appear until you scan an EZConfig barcode.

- 1. Connect the mobile device to your PC with a USB cable.
- 2. On your mobile device, turn on USB storage.
- 3. Copy the HoneywellLauncher.xml and EnterpriseBrowser.xml files to your PC.
- 4. Open the .xml files in the EZConfig Editor.
- 5. Edit the files and save them or generate EZConfig bar codes.
- 6. Use one of these methods to configure other mobile computers that have Honeywell Launcher for Android installed:
 - Scan the EZConfig bar codes generated from the EZConfig Editor.
 - Settings scanned from an EZConfig barcode are persistent. You can update
 the settings by scanning a new barcode or by deleting the
 EnterpriseBrowser.xml file from these two locations:
 - Mobile device (CT50 or 75E)\IPSM\honeywell\persist\
 - Mobile device (CT50 or 75E)\Internal storage\honeywell\persist\
 - For ADB, copy the HoneywellLauncher.xml and EnterpriseBrowser.xml file to /sdcard/honeywell/persist. If the persist folder does not exist, you need to create it.

- For File Explorer, copy the HoneywellLauncher.xml and EnterpriseBrowser.xml file to /internal storage/honeywell/persist.
- 7. Restart the mobile device.

CHAPTER

TROUBLESHOOT ENTERPRISE BROWSER

Use these tables to try to resolve issues you may encounter while using Enterprise Browser:

Problems and Possible Solutions

License Errors

For further help contact Customer Support.

Problems and Possible Solutions

Use the next table to find possible solutions for problems you may encounter while using Enterprise Browser.

Problem	Possible Solution
When I start Enterprise Browser, the "wait" cursor appears and a web page never appears.	Make sure that the mobile device is properly configured to connect to the network. For help, see the mobile device user manual.
My web pages do not look the same on Enterprise Browser as they do on my desktop PC.	Make sure that you have designed your Web content for use with mobile devices, particularly the smaller screen size.
Without proper configuration, it is possible for the user to escape during the reboot sequence.	To prevent the user from being able to escape the application during the reboot sequence, make sure to configure these two settings:
	AutoInstall Settings > Disable (clear the check- box)
	Settings > Security > Screen lock > None
When I start Enterprise Browser, this error message appears: A Wireless network is not currently available.	Enterprise Browser checks to make sure that the Honeywell mobile device has network access before starting up.
	Try these possible solutions:
	Make sure that the wireless radio has good signal strength.
	 Make sure that the mobile device is properly configured to connect to the network. For help, see the mobile device user manual.
I cold booted the mobile device and Bluetooth does not seem to be set up correctly.	There was a problem with the installation. Please contact Customer Support.
Only one instance of Enterprise Browser can be started.	Enterprise Browser only supports one instance. However, you can access up to four web portals.
The postamble is set to \n\t, but focus does not move to the next field after scanning a barcode.	Some mobile computers may not support \n\t. Use \r\t instead.
The Mobile device stops functioning properly and this screen appears:	Tap User Mode , and then tap Always .

Problem	Possible Solution
Select a home app	
Launcher	
User Mode	
Always Just once	

See Also

Contact Customer Support

License Errors

When a license error occurs, a license error message containing an error code appears on the Enterprise Browser screen.

This list contains all possible license errors for Enterprise Browser. Each error has a unique error code and a brief description. If an error occurs that is not included in this list, please contact Customer Support.

License Error Messages

Error Message	Description
SUCCESS = 0	Request was successful.
ERROR_LICENSE_NOT_FOUND = -1	Requested license not found.
ERROR_LICENSE_EXPIRED = -2	License found, but expired.
ERROR_OLD_LICENSE_VERSION = -3	License exists, but is older than the software requesting the license.
ERROR_NO_SERVICE = -100	Communication with the LicenseService failed.
ERROR_LICENSE_MANAGER_ UNAVAILABLE = -101	LicenseManager could not be created.
ERROR_UNKNOWN = -1000	An unspecified internal error occurred.

See Also

About Enterprise Browser Licensing

APPENDIX

MISCELLANEOUS INFORMATION

This appendix contains miscellaneous information for Enterprise Browser:

AutoRun via HoneywellLauncher.XML File

Purchasing Licenses

Licenses of Third Party Software

AutoRun via HoneywellLauncher.XML File

Note: Refer to Launcher for Android for HoneywellLauncher.xml

You can save the .xml file to your PC and then copy it to your mobile device to configure Enterprise Browser to AutoRun.

- View the document in Adobe Acrobat. It may be necessary to save the document to your mobile device and open it outside of a web browser with Adobe Acrobat.
- 2. Find the file, HoneywellLauncher.xml in in Launcher for Android.
- 3. Right-click on the file name and select Save Attachment.
- 4. Browse to a location on your PC where you wish to save the file.
- 5. Copy the file to your mobile device to enable AutoRun.

Purchasing Licenses

You can obtain licenses for Enterprise Browser through normal Honeywell sales channels. Once the appropriate license has been ordered, the person named on the purchase order will receive an entitlement email from ACSHSMLicense@Honeywell.com. You need the Activation ID from this email to download your licenses.

To download licenses and add them to your devices:

- 1. If you have not installed the Honeywell License Manager application, download and install it on your PC. See About Honeywell License Manager for instructions.
- 2. Start License Manager on your PC.
 - a. Download the licenses to your PC.
 - b. Register your devices with License Manager.
 - c. Assign licenses to individual devices in a License Bundle.
 - d. Export the License Bundle to an .xml file. A single license bundle .xml file can contain multiple device/license pairs.

Note: Refer to the License Manager online help for additional information.

 Use any method of your choice to copy the license bundle .xml file to the \sdcard folder on your mobile devices. The licensing utility on the mobile device consumes the license bundle .xml file (the file disappears).

Once the license bundle .xml file has been read, the license has been installed, and you are ready to run Enterprise Browser.

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.. contents::

Package(s) using Apache v2.0 license

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