

MCL-Technologies

# Release Notes

## *MCL-Client 4.8*

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## *MCL-Client 4.8 Update Packages*

### 1. Package Details

<b>Package #</b>	<b>MCL-Client version</b>	<b>Release Date</b>	<b>Scope</b>
<a href="#">P152</a>	4.8.152.24359	23/03/2020	<i>Zebra/Motorola Android</i>
<a href="#">P151</a>	4.8.151.24181	14/02/2020	<i>Zebra/Motorola Android Samsung Panasonic Android</i>
<a href="#">P150</a>	4.8.150.24105	07/02/2020	<i>Zebra/Motorola Android Samsung Panasonic Android <b>Recalled</b></i>
<a href="#">P140</a>	4.8.140.24019	23/01/2020	<i>All Android Supported Devices</i>
<a href="#">P130</a>	4.8.130.23870	20/12/2019	<i>All Android Supported Devices</i>
<a href="#">P120</a>	4.8.120.23590	26/11/2019	<i>Zebra WT6000 Android</i>
<a href="#">P110</a>	4.8.110.23430	29/10/2019	<i>All Android Supported Devices</i>
<a href="#">P100</a>	4.8.100.23165	30/09/2019	<i>All Supported Devices (except MCL-Client Voice)</i>
<a href="#">P90</a>	4.8.90.23026	02.09.2019	<i>All Supported Devices</i>
<a href="#">P80</a>	4.8.80.22779	12.07.2019	<i>All Supported Devices</i>
<a href="#">P70</a>	4.8.70.22573	17/06/2019	<i>All Supported Devices</i>
<a href="#">P60</a>	4.8.60.22387	15/05/2019	<i>All Supported Devices</i>
<a href="#">P53</a>	4.8.53.22385	09/05/2019	<i>FZ-N1 Android</i>
<a href="#">P52</a>	4.8.52.22247	23/04/2019	<i>All Supported Android Devices</i>
<a href="#">P51</a>	4.8.51.22072	02/04/2019	<i>All Datalogic Android</i>
<a href="#">P50</a>	4.8.50.22036	28/03/2019	<i>All except Datalogic Android</i>
<a href="#">P40</a>	4.8.40.21818	01/03/2019	<i>All except Datalogic Android; M3 Android; Unitech PA720 Android</i>



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<a href="#">P20</a>	4.8.20.21468	18/01/2019	All Supported Devices
<a href="#">P09</a>	4.8.9.21272	07/12/2018	All Supported Devices
<a href="#">P08</a>	4.8.8.21143	29/11/2018	All except <i>Unitech PA720</i>



## 2. *MCL-Client 4.8.152.24359* Update (P152)

### 2.1 Enhancements

Scanner (*Android*): Revised *Zebra* scanner implementation. Now, it uses the *DataWedge API* instead of the *EMDK* (requires *DataWedge 6.8* or higher).

### 2.2 Bug Fixes

System: Fixed a memory leak affecting certain types of screen events. The screen content would not be removed from memory, leading to a potential crash.

System: Fixed memory leak that occurred when a LEFT or RIGHT Hotkey event was associated to an input type control (**ex:** *Input Keyboard*). The screen content would not be removed from memory, leading to a potential crash.

## 3. *MCL-Client 4.8.151.24181* Update (P151)

### 3.1 Bug Fixes

*App Desktop*: Fixed an issue that prevented the Operator Login process from completing properly.

## 4. *MCL-Client 4.8.150.24105* Update (P150)

### 4.1 Enhancements

- System (*Android*): *MCL-Client* is, now, compatible with *Appium* – an automated testing platform. *MCL-Designer's* control name ("Layout" tab) can be used to identify the elements in the *Appium Studio*.
- System (*Android*): Optimized the main interpreter/runtime loop taking into account new versions of the *Android OS* (since *Android 7*).
- System (*Android*): Now, devices running on *Android 10* are correctly identified ("AD10" instead of "AD1").

### 4.2 Bug Fixes

- Controls: Fixed an issue in the Input Keyboard control with "Input Type" set to "Secret" – now, the characters are, effectively, hidden.
- Controls: Fixed an issue where screen validation would not occur if an Input Text or Input Barcode control was set to "disabled".

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- Controls (*Android*): Fixed an issue where the "Get Value" process pointing to an "Input Time" control was not returning the time value according to the control's output format.
- Screens: Fixed a random freeze due to rapid screen unstacking.
- System: Fixed multiple issues in *MCL-Client* related to full disk/no storage space situations.
- Time (*Android*): Fixed an issue where the "Get Value" process pointing to an "Input".

## 5. *MCL-Client 4.8.140.24019* Update (P140)

### 5.1 Enhancements

- *App Desktop (Samsung)* – Now, the "Knox Version" option of the "Device Info" screen displays the version of the "Knox Platform" (previously, it referenced the version of the "Knox SDK").
- System (*Samsung*): Added support for *Samsung Knox-Platform 2.0*, which is required for devices that are running or will be upgraded to *Android 10*.

### 5.2 Bug Fixes

- Controls: (*Android*) Fixed a potential crash caused by the shifting of focus from one control to another.
- Host Services (*Android*) - Fixed issue that prevented the *MCL* application from loading information about the default host and the default language of the logged in operator to the device.
- Screens: (*Android*) Fixed issue that would randomly produce a white screen when navigating to another screen.
- Speech: Fixed issue that affected the handling of folder aliases by the *TTS Substitutions*.
- Speech: (*Android*) Fixed issue that caused a wrong entry type in the "Hotkey" event when using speech input.

## 6. *MCL-Client 4.8.130.23870* Update (P130)

### 6.1 Bug Fixes

- Controls (*Android*): Fixed an issue where the "Button" control state change, change of focus and "Screen Validation" were executing in reverse order.
- Controls (*Android*): Fixed an issue in the "Checkbox" control that prevented the focus to move to the "Previous Control" when using the "Set Focus" process.
- Controls (*Android*): Fixed an issue that prevented the use of an ENTER Key for "File Browse" control validation. Before this fix, only the TAB Key would trigger control's validation state.

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- Controls (*Android*): Fixed issue affecting the Input Keyboard control's validation – previously, a single Input Keyboard control in a screen, with a defined "MaxLength" and enabled "AutoValidate" would not trigger the field validation.
- Controls (*Android*): Fixed an issue where the "Get Value" process pointing to a "Input Date" control was not returning the date value according to the control's output format.
- Data/Resource Files (*Android*): Fixed random crashes caused by issues in the string conversion of badly formed UTF-8 encoding. For instance, string conversion of phonetic substitution file (.phs) content could lead to crashes.
- Kiosk Mode (*Samsung*): Fixed an issue where the navigation bar would be unavailable on Samsung devices with kiosk mode enabled. The navigation bar is now visible, but only the back button is active.
- Scanner (Generic *Android*): Fixed an issue that prevented the scanner to identify the correct barcode descriptor when scanning a GS1 EAN 128 barcode.
- System (*Android*): Fixed a crash following a barcode input combined with a "Go to" process to a screen included in the control's "Change" event.

## **7. MCL-Client 4.8.120.23590 Update (P120)**

### **7.1 Enhancements**

- *MCL-Voice Login* App: version updated to 5.35.
- Speech: Added support for the native Hebrew ASR language.
- Speech: Added support for the Slovak TTS/ASR language.

### **7.2 Bug Fixes**

- *MCL-Voice Login* App: Fixed the issue that showed the speech input of several operators in the same Voice Log.

## **8. MCL-Client 4.8.110.23430 Update (P110)**

### **8.1 Enhancements**

- Speech: Added extra debug information to Voice Logs on Grammar Compilation errors and Memory Usage.

### **8.2 Bug Fixes**

- Controls (*Android 8*): Fixed issue that caused some controls to be wrongly highlighted when the operator used the device's hardware keyboard.

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- Hardware (*Android 9*): Fixed issue with delayed data input display by boosting hardware acceleration.
- SIP (*Android*): Fixed an issue that caused the device's native Soft Keyboard and/or Navigation Buttons to be displayed even when keyboard input is disabled.
- Speech (*Android*): Fixed an issue that caused TTS frames to, sometimes, be played out of order.
- System (*Android*): Fixed issue related to the handling of an ANR error that triggered a random grammar compilation error.

## 9. *MCL-Client 4.8.100.23165* Update (P100)

### 9.1 New Devices

*Datalogic Memor 1 Android 8*

### 9.2 Bug Fixes

- Controls (*Android*): Fixed small issues affecting the navigation of certain controls with enabled Tab Stop.
- Date/Time (*Android*): Fixed unexpected behavior when enabling the "DateTime.AutoTime" parameter.
- Screen (*Windows*): Fixed issue that triggered the screen's event(s) before the screen was fully drawn.
- System (*Android*): Fixed random crash that was triggered at start up when rotating the screen.
- System: Fixed inconsistencies (**ex:** differences between *MCL-Simulator* and *MCL-Client behaviour*) related to Focus management. These inconsistencies were mostly visible when using the "Remote Control" feature or a Hardware Keyboard.
- Fixed other issues related to Control validation.

## 10. *MCL-Client 4.8.90.23026* Update (P90)

### 10.1 Bug Fixes

- *App-Desktop (Android)*: Fixed issue that would enable the "Automatic date & time" setting, by default, in the *Operating System*. Correct behavior is to leave the setting unchanged, if not specified in the service parameter.
- Controls (*Android*): Fixed issue that prevented seeing a button's selection state when the focus was on that button.
- Controls (*Android*): Fixed issue in an Input Barcode that caused the "Preamble" to be applied twice.

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- Controls (*Android*): Fixed issue that caused the error "Activity Not Responding" when scanning and storing a barcode descriptor into a variable.
- Controls (*Android*): Fixed issue that caused the variable "Store Selected Field Value" to be updated immediately, when the corresponding control is mapped to the screen instead of at operator line selection.
- Controls (*Android*): Fixed issue that caused non "tab-stop" controls to be ignored when system evaluated to check if "all inputs are valid".
- Controls (*Android*): Fixed issue that prevented the navigation between buttons in a Menu Button control when using softkeys.
- Controls (*Android*): Fixed issue that caused a random freeze when a barcode scanning operation is interrupted by jumping into another screen.
- *MCL-Engine (Android)*: Fixed a potential crash when *MCL-Engine* was running the *MCL Operator Login* application.
- Processes (*Android*): Fixed issue that caused an unexpected screen to be briefly visible before displaying the pop-up screen (pop-up screen with "Clear Screen" disabled and called via a "Go Sub" process).
- Processes (*Windows CE5/CE6*): Fixed issue that affected the correct usage of Remote Database *SQL* commands containing non ANSI characters.
- Scanner (*Datalogic Windows*): Fixed issue related to the "decode beep".
- Scanner (*Datalogic Windows*): Fixed issue that prevented the *MCL-Engine* from controlling the scanner's beep.
- Scanner (*Datalogic Windows*): Scanner implementation was reviewed.
- Screen (*Motorola/Zebra Android*): Fixed issue that randomly caused the device's screen to shut down after a login.
- SIP (*Android*): Fixed issue that prevented the keyboard (SIP) from closing when the user started to draw his signature.
- Variables (*Windows*): Fixed issue that caused an incorrect value to be returned when using the "X\_DATETIME\_DAYNAME" *system variable*. This also affected the Input Date control and the "Date/Time Format" process (conversion "%a/%A").

## **11. MCL-Client 4.8.80.22779 Update (P80)**

### **11.1 Bug Fixes**

- *App Desktop (Windows)*: Fixed issue that caused Runtime not to restart properly and the "Settings" parameter not to reload.

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- Controls (*Android*): Fixed issue in the Advanced List Box control that prevented its elements (Text; Images; Buttons) from being positioned correctly.
- Controls: Fixed issue that affected the Display Shape control, specifically, its transparency property – **ex:** Previously, when defining a transparency for the background, it was replaced by a solid color.
- Processes: (*Windows*) – Fixed issues concerning the execution of the "Sync Date/Time with Host" process:
  - ✓ Now, "Sync Date/Time with Host" fails on *MCL-Simulator* unless it is started as "Administrator".
  - ✓ Now, the process will fail when it does NOT connect to *MCL-Net*.
- Screens (*Android*) – Fixed an issue concerning the swipe gesture on the device's screen. Now, swiping to the left triggers a RIGHT Key action (and vice versa).

## 12. *MCL-Client 4.8.70.22573* Update (P70)

### 12.1 Bug Fixes

- Controls (*Android*): Fixed issue that prevented the Combo Box control from closing the Data File in use.
- Controls (*Android*): Fixed issue that caused the CheckBox control to display dashed lines after a focus shift.
- Controls (*Android*): Fixed issue that caused the "Input List" control to lose its style when changing to a "Disabled" state.
- Controls (*Android*): Fixed crash caused by the resizing of the Signature Capture's drawing surface.
- Data Files: Fixed issue that replaced the "L" character by an "a" character when parsing a *UTF16 without BOM* File.
- Events (*Windows*): Fixed issue that prevented a screen's "Time Out" event from executing unless a "Ready" event was defined.
- GPS (*Android*): Now, GPS Data are reported using the Arabic numerals instead of the device's regional settings.
- Processes: Fixed issue that prevented the "Add to Archive" process to add open Data Files to the Archive File.
- Scanner (*Honeywell Android*): Fixed issues regarding Barcode Symbology Decoding (**ex:** [supplementals mismatch, UPCE to UPA conversion](#)).
- Scanner (*Android*): Fixed potential crash due to unavailable scanner (the *EMDK* was unable to provide a "Barcode Manager").

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- Scanner (*Windows*): Fixed issue that kept the scanner's laser beam on for a few more seconds after the HW Trigger button was released.
- Screen (*Android*): Fixed issue in a few *Android* devices that led to the loss of the wallpaper when the device's orientation was not the default "Screen Orientation".
- Speech: Updated Polish TTS translations.

## 13. *MCL-Client 4.8.60.22387* Update (P60)

### 13.1 Enhancements

- *Android*: Now, *MCL* products for *Android* (*MCL-Agent*, *MCL-Client*, *MCL Add-ons*) have *Android 4.4 (KitKat)* as a minimal requirement – *MCL* packages will NOT install in older *Android* versions.
- *Android*: *Android 9* is now supported for the *MCL* products (*MCL-Agent*, *MCL-Client*, *MCL-Desktop* and *MCL Add-ons*).

### 13.2 Bug Fixes

- Camera (*Windows*): Fixed issue regarding the device's camera when there were Hardware conflicts between Camera and Scanner.
- Controls: Fixed visual issue in certain controls - Under certain circumstances, a Control's valid Field would, wrongly, be colored red after validation.
- Controls (*Windows*): Fixed potential issue that prevented the closing of a *MessageBox* if it was called immediately after the execution of a "Speech Calibration" process.
- Controls (*Windows*): Fixed potential memory leak in the Signature Capture Control.
- Controls (*Android*): Changes in the focus outline of the Grid Control so it looks more like what is displayed in *Windows* devices.
- *CoPilot* (*Android*): Updated *Copilot* plugin so it is compatible with latest *MCL-Client* version.
- *OAuth* (*Android*): Fixed a potential crash when retrieving the User Info and the Token was no longer valid.
- *OAuth* (*Android*): Fixed an issue that prevented the process of getting User Info from returning an error in case of too many Requests.
- *OAuth* (*Android*): Fixed an issue that caused the Login process to fail in case the *Kiosk Mode* was enabled in *Honeywell* devices.
- *OAuth* (*Android*): Fixed multiple issues where the Check Login Status was wrongly indicating "user logged".
- *OAuth* (*Android*): Fixed an issue that prevented *MCL* from identifying the Web Service Host.

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- *OAuth (Android)*: Fixed *OAuth* Refresh problem after token validity = 0 and the operator restarts the application.
- *Processes (Android)*: Fixed engine crash when storing Data into Variables after starting an *Android* Activity (Intent). Additionally, *MCL*, now, supports receiving "ArrayList<String>" and "ArrayList<Integer>".
- *Scanner (Android)*: Fixed potential issue of unresponsive Application when the Operator pressed the Hardware Scan Trigger during the execution of an "auto-trigger" within the Application.
- *Screen (Android)*: Fixed issue that displayed the wrong wallpaper when starting the device in a non-natural orientation.
- *Screen (Android)* – Fixed potential Screen validation issues.
- *Screen (Android)*: Fixed a potential issue that was affecting the natural orientation of the screen in *Panasonic* devices.
- *Speech*: Fixed crash that happened when closing the Speech Settings window after performing a Calibration and when the Application's Speech was paused (Control Words – Control "Pause").
- *Speech (Android)*: Fixed issues when pressing HOME during Calibration.
- *Speech (Android)*: Fixed issue that prevented a Speech Hotkey event from being triggered when the focus is on a Button Control.
- *Web Services (Android)*: HTTP Requests included 2 unnecessary Headers – "MCL-DeviceName" and "MCL-SSN". Those Headers have been removed.
- *Web Services (Android)*: Fixed issue that executed an HTTP Request even when the mentioned File did not exist. Now, HTTP Requests trying to send a non-existing File generate an error.

## **14. *MCL-Client 4.8.53.22385* Update (P53)**

### **14.1 Bug Fixes**

- *Controls (Android)*: Fixed issue regarding the image included in a Button control – the associated image would not appear if the Button included an empty variable.
- *Scanner (Panasonic Android)*: Fixed an issue that prevented the scanner from being used by third party applications when *MCL-Client* runs in the background.
- *Web Services*: Fixed issue in the HTTP Requests that truncated its headers and/or its body.

## **15. *MCL-Client 4.8.52.22247* Update (P52)**

### **15.1 New Features**

- Added support for *OAuth2* for all the supported *Android* devices. [Limited Access]
- Added support for *DotCode* Symbology in *Zebra* devices.

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## 16. *MCL-Client 4.8.51.22072 Update (P51)*

### 16.1 New Devices

- *Datalogic MEMOR 10 Android 8*

### 16.2 Enhancements

- *Kiosk Mode*: Added Kiosk Mode support for *Datalogic* devices running *Android 5* and above (it requires device owner privilege).

## 17. *MCL-Client 4.8.50.22036 Update (P50)*

### 17.1 Enhancements

- Local Database: *SQLite* updated to *3.27.2*

### 17.2 Bug Fixes

- *App Desktop: (Windows)* Fixed "Full Screen" implementation issue in *Windows CE*. When *MCL* runs in "Full Screen", this could lead to the loss of keyboard keys (physical and/or virtual).
- *App Desktop:(Windows)* Fixed issue of missing *MCL* application shortcuts after a cold boot/battery depletion observed in some *Datalogic CE* devices.
- *Camera: (Windows)* Fixed an issue that caused the device to take unwanted pictures - it was as if the device's trigger was being continuously pressed.
- *Controls: (Android)* Fixed style conversion issues in the "classic" style of the File Browse and Combo Box controls.
- *Controls: (Android 8)* Fixed potential conflict between the device's *OS* which introduces arrow key navigation support that interferes with *MCL's* control focus handling. The fix is consistent with the *MCL- Simulator* behavior (arrow navigation is only permitted for certain controls such as lists, radio buttons, etc.).
- *Controls: (Android)* Fixed issue in the Input Cash control – when trying to modify the value of an input with no decimal part, the application would not respond.
- *Controls: (Windows)* Fixed the execution/behavior of certain key combinations.
- *Data Files – (Windows)* Fixed the issue with Data Files that were open when the "Go to Exit " process was executed. Now, when the "Go to Exit" process runs, it closes any currently opened Data Files.

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- Date: Fixed issue of Date Difference and Date Addition failing when using the "System Format".
- Scanner: (*Android*) Fixed potential issue of double-reading – The "Wedge" mode was disabled in all *DataLogic* devices within the *MCL-Client* environment.
- Screen: (*Android*) Fixed validation logic issues in some controls. For instance, if you had a screen with an empty Input Keyboard and a Button with an associated event, clicking the Button would NOT trigger its event, as expected.
- Screen: (*Windows*) Fixed potential crash due to the use of the "Power" event.
- Screen: (*Android*) Fixed potential crash when launching an application with a screen orientation different from the target device's orientation - this was systematically observed with the *MCL-Login App* installed in a *WT6000*.
- Speech: Fixed the "Calibration" process so it reports the errors that occur during its execution.
- Speech: Fixed the issue regarding the "Speech Input" process ignoring the hint parameter.
- Speech: Fixed several issues regarding audio source definition/edition, specifically affecting the speech input component (**ex:** when using the *HS3100 BT Headset*).
- Other minor bug fixes.

## 18. *MCL-Client 4.8.40.21818* Update (P40)

### 18.1 Enhancements

- *App Desktop*: Information on Add-on version has been added to the *App Desktop's* "Device Info" screen.
- Camera: (*Windows Mobile*) Revised camera plugin for *Motorola 7528 WM (WAP4)*.
- Local Database: updated to version 3.27.1.
- *RFID*: Added RFID support for the *MC3300R Zebra* device's *RFID* reader.
- Scanner: (*Android Datalogic ONLY*) From now on, *MCL Runtime* deactivates *DataLogic's* "Softspot" to avoid potential blocking of the use of an *MCL* app.
- Screen: A new Key Code named "<Any Function Key>" was added to the "Hotkey" Event – if this key code option is selected, the pressing of **Ctrl + Func. key** or **Shift + Func. key** will trigger the "Hotkey" event.

### 18.2 Bug Fixes

- *App Desktop*: Application launch issue due to Screen Shutdown is fixed – Now, the *MCL Login App* (or another App defined to start automatically) is not launched when the screen has been shut down using the "power" button.

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- *App Desktop*: The Navigation Dots (created when there are too many apps to be displayed at the same time) are no longer visible below status messages (for instance, under a "Disabled" message, if the device is disabled).
- *Files: (Windows Mobile)* It was impossible to delete a file in the device, at root level. This has been corrected.
- *Files*: Fixed the issue with Zip File Extraction returning an error when using a Wildcard as filter.
- *Host: (Android)* Fixed synchronous TCP connection with an infinite timeout.
- *MCL Log*: Fixed spurious character in the *MCL Log*.
- *Processes: (Windows)* Fixed potential crash on *Intermed/Honeywell* devices after running the "Camera - Take a Picture" process and arriving into an Input Barcode control.
- *RFID: (Android)* Fixed *RFID*'s "Lock/Unlock" process for the "RFD8500 RFID" add-on. The "Unlock(00)" and "Read/Write Secured Access (10)" are no longer inverted.
- *RFID: (Android)* Fixed potential crash on *RFID* initialization.
- *RFID: (Android)* Fixed the potential unwanted appearance of the "missing zebrarfidscanner add-on" warning message in some devices.
- *Scanner: (Android 8 and higher ONLY)* Issue with retrieving the *Bluetooth's* mac address is corrected.
- *Scanner: (Datalogic ONLY)* Fixed various scanner configuration issues on *Datalogic* devices (check digit, start stop characters, preambles, UPCE\_EAN conversions).
- *Scanner:(Zebra ONLY)* Fixed the "Scanner" mode issue in *Zebra* devices.
- *Scanner: (Datalogic ONLY)* Fixed the potential double scan issue. MOT75
- *Scanner: (Android)* Manufacturer's scanner beep has been deactivated.
- *Scanner: (Windows Mobile)* Fixed the issue of lost/incorrect scanner settings after a "Take Picture" process.
- *Screen*: There is greater control over Hardware Keys – fixed the triggering of multiple events due to pressing a single hardware key.
- *Screen: (Android)* Fixed the issue regarding Button behavior in overlapped screens. If a screen with Button controls calls another screen with a "GoTo" process and there is no "Clear Screen" for that second screen, the Buttons of the first screen remain active.
- *Speech*: Fixed the rounding error in applied gain by using HS3100.
- *Speech*: Fixed an issue with the "French Belgian" TTS.
- *Speech*: Fixed potential crash on the user voice settings pop-up window when TTS is not installed.

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## 19. *MCL-Client 4.8.20.21468* Update (P20)

### 19.1 Enhancements

- *App Desktop: (Android)* Added a parameter to control whether *App Desktop* registers as HOME application – default behavior is “yes”.
- *App Desktop: (Android)* New Parameters to set the *Timezone/NTP* are available.
- Controls: Menu Button enhancement – The “Auto-Refresh” feature was added to this control.
- Processes: Variable Extract enhancement – The use of a negative index allows for an “end field to initial field” extraction.
- Scanner: (*Android*) support for “UTF-8” encoding in *QR Codes*.
- *SQLite* Upgrade: Supported version is *SQLite 3.26.0*.
- Added support for *Zebra RFD8500's RFID* Reader.

### 19.2 Bug Fixes

- *App Desktop: (Honeywell Android ONLY)* Fixed issue that prevented “Kiosk Mode” from setting *App Desktop* as the “Home application”.
- *App Desktop: (Zebra Android 8 ONLY)* Access to *Google NOW* is NO longer possible, if “Kiosk Mode” is enabled.
- *App Desktop: (Android)* Fixed the Toolbar update issue after a Time Zone related change.
- *App Desktop: (Samsung AD8 ONLY)* Fixed refresh issues of the Toolbar’s Wifi and Battery icons.
- Camera: (*Android*) A failsafe was implemented if the wrong camera name is set – there is a fallback to the default camera.
- Camera: (*Android*) Fixed a potential crash when taking pictures with the front camera.
- Controls: The Advanced List Box behavior was corrected to be the same in both *Windows* and *Android*– if an Advanced List Box references an empty file, the output variable is cleared when the application flow proceeds to another screen.
- Controls: The CheckBox’s compared value is NOT case sensitive anymore.
- Controls: Now, Menu/Selection controls have the same behavior in the *Android* and *Windows* environments regarding the “Change” event.
- Controls: (*Android*) Fixed potential File Browse crash if a file name is not specified.
- Controls: (*Windows*) Re-established the value of the Message Box’s return variable to “0” after a timeout.
- Controls: Corrected the controls’ “hint text” alignment to make it consistent in both *Android* and *Windows* environments.

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- Controls: (*Android*) Now, the “Change” event in an Input Keyboard control is only executed when the validation pattern is met.
- Controls: (*Android*) Fixed the Input Keyboard refresh/clear issue after validation error.
- Data Files: Fixed issues with the *CSV* import of data files into a Local Database.
- Data Files: Fixed issue when using the “File Copy Record” process between incompatible structure types.
- Network info: Fixed long IP-address issue – it is now displayed correctly.
- Scanner: (*Android*) Fixed unexpected beep in screens with no scanner input.
- SIP: (*Android*) Fixed Input Keyboards’ loss of focus and SIP expansion issues – now, the focus moves from one Input Keyboard control to the next and if a SIP is required, it stays open but no longer covers the related control.
- Speech: Fixed potential conflict between identical voice keycodes (control word=app word list entry).

## 20. *MCL-Client 4.8.9.21272 Update (P09)*

### 20.1 Enhancements

- Speech: (*Android*) Parameter to control the volume UI is available – a message will be displayed if the legal max volume is reached (device dependent).

### 20.2 Bug Fixes

- Camera: (*Android*) Fixed the potential issue when saving an Image File.
- *App Desktop*: (*Windows*) Application Name’s wrapping was fixed.
- *App Desktop*: (*Windows*) The “MclPreloadTimeout” parameter is only handled when *App Desktop* is idle.
- Controls: (*Android*) Fixed the potential loss of the cursor when using a “Set Focus” to an Input Date/Input Time control.
- Controls: (*Android*) Fixed the potential loss of a Button control’s image element when there is a change in screen orientation.
- Controls: (*Android*) Fixed the loss of focus on a control when returning from a stacked screen.
- Controls: The behavior of the Input Cash control concerning input display was different in *Android* and *Windows*. Now, both display the same result:
  - ✓ Zeroes inserted to the left of the integer number are removed when cursor moves to the decimal part.
  - ✓ Zeroes inserted in the decimal part are removed when the “Change” event is triggered.

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- Controls: (*Windows*) Fixed the issue of incrementing decimal input in the Input Cash control with the use of the <UP> key.
- Controls: (*Android*) Direction Keys are, now, implemented for use in the Grid and Browse controls in a remote session.
- JSON Parsing: (*Android*) Corrected issue of "PathNotFound" error when exporting.
- Scanner: Fixed a potential crash when using "Scanner.Mode=WEDGE" in the parameter service.
- Speech: (*Android*) Fixed the issue in the Slider of the Speech Control window, when trying to increase the volume and the legal volume limit has been reached.

## 21. *MCL-Client 4.8.8.21143* Update (P08)

### 21.1 New Devices

*Zebra TC72 Android 8*

*Zebra TC77 Android 8*

*Panasonic FZ-T1 Android 8*

### 21.2 New Features

- *Back-end Services*: Added "Messagebox Service" capabilities (requires *Mobility Platform* v.1.4 or higher and *MCL-Agent 4.8* or higher).
- Scanner: Added support for the *bluetooth scanner* in *SSI* mode (*Windows*).
- *App Desktop*: "loader.ini" is discontinued for *MCL-Mobility Platform* accounts  $\geq 1.4$ .

### 21.3 Enhancements

- *App Desktop*: Non-relevant information removed from the *Standard MCL-Client's* "Device Info" menu option.
- Camera: Display of a spinning wheel while saving camera image.
- *New System Variables*:
  - DATETIME\_SDATE for short date format
  - DATETIME\_MDATE for medium date format
  - DATETIME\_LDATE for long date format
  - DATETIME\_FDATE for full regional date format (as defined at OS level)

**Note:** In a *Windows* environment:

DATETIME\_SDATE = DATETIME\_MDATE  
DATETIME\_LDATE = DATETIME\_FDATE

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- New behavior for *System Variable* DATETIME\_DATE\_FORMAT: non-numeric values are now accepted and interpreted as a pattern. Numeric values will result in the same behavior as before. Special patterns were added for the 4 new system date formats: %SHORT%, %MEDIUM%, %LONG% and %FULL%.
- Restart/Reboot - Exit Application: now, this process will only exit the application and NOT stop the *MCL-Client* runtime.
- Scanner: parameter "Scanner.serial.mode" was renamed "Scanner.Secondary.Type".
- *SQLite*: updated to version 3.24.0.
- Speech: pop-up message added when a speech grammar error occurs in a speech input (speech grammar error = *Voice Engine* fails to load a word list. **Ex:** invalid characters).
- Speech: improved calibration algorithm.
- Speech: improved *Automatic Gain Control* (AGC) and *Voice* logs.
- Speech: improved *Voice* log data during calibration.
- Speech: compute energy level in *RMS*.
- Speech: It is now possible to define the *Control Word's* "repeat" prompt message and *sync mode*.

## 21.4 Bug Fixes

- Beeps: Issue due to simultaneous beeps playing was fixed with a synchronized beep implementation.
- Camera: the preview no longer freezes when pressing the "Back" key.
- Camera: resolutions *SXGA* and *SXGA-* now work as expected in *M3* mobile devices.
- Custom PDK: The issue with the display of the *Application Icon* was fixed - it is no longer replaced in *App Desktop* with the default icon.
- *App Desktop*: Occasional lingering of the "Installation in progress..." pop-up was fixed.
- Controls: potential issue of loss of focus/tab order when leaving a barcode/keyboard control is fixed.
- Controls: Potential scan read being triggered due to random swipe was fixed.
- Scanner: (*Honeywell Android* devices) Fixed scanner issues of data and symbology mismatch (**ex:** Supplementals, "UPCE to UPCA", and UPCE and EAN13 with supplementals).
- Scanner/Keyboard: (*Android*) fixed issue where, in some cases, the field validation wrongly flagged invalid entries.
- Screen event: The issue with the "Validate" event of a screen that could be triggered after a change to a new screen was fixed.

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- Speech: Fixed a potential deadlock when application is paused (**ex:** [speech control panel was blocked](#)).
- Speech: Fixed the speech output's synchronization issues under specific conditions.
- Speech: Fixed an issue where a phonetic substitution was wrongly spelled in Speech Mode "words".
- Speech: Fixed an issue where the recognition engine stops when a very short word (less than 60 ms) is recognized.
- Speech: Fixed a potential speech input global validation crash if the global words are disabled.
- Speech: Fixed the potential loss of the speech indicator icon in the device's toolbar.

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