

MCL-Technologies

Release Notes

MCL-Client 4.9

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MCL-Client 4.9 Update Packages

1. Package Details

Package #	<i>MCL-Client</i> version	Release Date	Scope
P31	4.9.31.25130	14/08/2020	All supported <i>Android</i> devices
P30	4.9.30.25055	31/07/2020	All supported <i>Android</i> devices
P20	4.9.20.24936	01/07/2020	All supported devices
P10	4.9.10.24571	05/05/2020	All <i>Zebra Android</i> supported devices
P01	4.9.01.24430	07/04/2020	All <i>Zebra Android</i> supported devices

2. MCL-Client 4.9.31.25130 Update (P31)

2.1 New Devices

- ✓ PAN_FZN1_AD9

2.2 Bug Fixes

- Controls (*Android*): Fixed an issue that triggered a "Change" action after a signature capture even if no changes were performed in the related control.
- Data Files (*Android*): Fixed a potential issue that could create a corrupted file/directory in the file system when using file/directory names with characters outside of code page "cp1252".
- Processes: Fixed an issue that corrupted the file pointer when multiple records were deleted using the process "Delete Record" (Data File processes group) with the search criterion "All Record(s) where...".
- Processes: Reverted the fix implemented in the *4.09P30* release ("Fixed issue that affected the "Test & Branch" Branch process when comparing numeric values –now, if the first operand is not numeric, the process can fall back to string comparison").
- System (*Android*): Fixed a potential crash caused by a memory leak when looping through screens (GoSub, GoTo).



3. *MCL-Client 4.9.30.25055 Update (P30)*

3.1 Enhancements

- Scanner (*Zebra Android*): Now, it is possible to control the beep from the parameter service. Available options:
 - beep is generated by the *MCL* application;
 - beep is generated by the scanner's hardware or both.

3.2 Bug Fixes

- Controls (*Android*): Fixed an issue that affected the Grid control – the "Change" action would be triggered without operator intervention on the touchscreen/keyboard.
- Controls (*Android*): Fixed an issue that would trigger the "Change" action by a barcode scan input without a modification in the input.
- Controls (*Android*): Fixed an issue that would set Button controls in front of every other control despite the defined view order (**ex:** [set to front](#), [set to back](#), etc.).
- *Kiosk Mode (TC20/TC25 Android devices Only)*: Fixed issue that generated an error when the operator tried to enable the *Kiosk Mode* in *TC20 | TC25 Android* devices.
- Processes: Fixed issue that affected the "Test & Branch" Branch process – now, if the first operand is not numeric, the process can fall back to string comparison.
- Processes (*Zebra Android*): Fixed issue that caused the reboot process not to work on *Zebra* devices.
- Scanner (*Zebra Android*): The system variable "MCL_LAST_SCAN_AIM" has been implemented for use by *Zebra's DataWedge* mode.
- Speech – Fixed issue that affected the speech cache – it was not cleared when speech input had zero length.
- Speech (*Android*): Fixed issue that caused audio feedback notifications not to work.
- System (*Android*): Fixed random crash on screen transition.
- Variables (*Android*): Fixed issues affecting the Network System Variables – "PHONE_SIGNAL_STRENGTH" was returning the signal strength of an unregistered cell and "PHONE_RSSI" was providing wrong values.

4. *MCL-Client 4.9.20.24936 Update (P20)*

4.1 Enhancements

- *MCL -Login Application*: Version updated to 4.9.40.
- *MCL -Login Application*: Now, during a log out procedure, the list of headsets associated to the device is cleared.

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- *OAuth 2.0 (Android)*: Added support for Login Validity. Now, a Login Session has a defined expiration time. If the operator tries to log in after this time, this login request will require a new authorization procedure.
- *Processes (Android)*: Added support for retrieving the ID Token (*OAuth 2.0*).
- *Processes (Android)*: Added support for the *OAuth 2.0* Grant Type "Password".
- *Scanner (Datalogic Android)*: Added support for the "Green Spot" feature of *Datalogic* devices.

4.2 Bug Fixes

- *App Desktop*: Fixed an issue that prevented the launch of an *MCL* application in *App Desktop*, via the default Touch Key light, with a single click. Previously, it required a double-click.
- *App Desktop (Android)*: Fixed an issue with the usage of the "Power" and "Timer" actions when the screen was dimmed.
- *Controls (Android)*: Fixed an issue in the style of the Button control that affected the "Selected" state.
- *MCL-Login Application*: Fixed a Localization issue related to the Czech Language: Wrong Speech Out for Potvrdit.
- *Processes (Android)*: Fixed an issue that affected the target variables which would not be cleared when executing a "Remote Database Select Record" process and the last field of the "resultset" was empty.
- *OAuth 2.0 (Android)*: Fixed a potential crash when using an insecure URL (http instead of https) in the "Discovery URL" setting.

5. *MCL-Client 4.9.10.24571* Update (P10)

5.1 New Devices

- ✓ ZBR_EC30_AD8

5.2 Enhancements

- *Scanner (Zebra Android)*: Optimized the automatic switch to an external scanner when one is connected to a device. Also, when the external scanner is disconnected, there is an automatic switch back to the device's own internal scanner.
- *Speech*: Increased the default TTS Rate range to min. "80" and max. "230" (previously, it was set to min. "50" and max. "210").
- *Speech*: Added the possibility to control the TTS Rate range (minimum range = "50" / maximum range = "400") through the parameter service.
- *Speech (Android)*: Added the possibility to associate Key Codes to the System Variables responsible for indicating when the *Zebra Bluetooth HS3100* headset is muted and unmuted (when the operator lowers or raises the microphone beam). These Key Codes can, then, be associated to "Hotkey" events in a screen or a control's input field to trigger the required business logic.

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- Variables: Optimized the access to the "APP_INFO_*" System Variables.

5.3 Bug Fixes

- Controls (*Android*): Fixed an issue that affected the "Classic" style of the Input Text or Input Barcode controls.
- Controls (*Android*): Fixed an issue in the rendering of the File Browse and Grid controls. Now, they are aligned with the behaviour of the *MCL-Simulator*.
- Controls (*Android*): Fixed an incorrect speech input in an Input Cash control with a defined decimal part.
- Controls (*Android*): Fixed an issue that prevented an empty signature to be saved in a file.
- Controls (*Android*): Fixed an issue that prevented the focus from jumping to the next field in an Input Date control when the user entered a day value and the second digit was a "0" (ex: "10", "20", "30").
- Global Procedures: Fixed an issue caused by the renaming of global procedures, in certain circumstances, that led to syntax errors in the related Labels.
- Processes (*Android*): Fixed a focus issue when a "Change" event included a "Go Sub" process to a sub-routine that displayed a screen - the focus was not correct after the completion of the sub-routine.
- Processes (*Windows*): Fixed an issue that affected the target variables which would not be cleared when executing a "Remote Database Select Record" process and the last field of the "resultset" was empty.
- Scanner (*Zebra Android*): Fixed various scanner issues related to UPCE to UPCA Conversion, System Character and MSI Check Digit not being transmitted.
- Scanner (*Samsung Android*): Fixed an Auto-trigger issue in the Barcode Input control. Camera would be triggered twice which could cause unwanted side effects.
- Scanner (*Zebra Android*): Fixed an issue that prevented a "Barcode" screen event from being triggered in a *Zebra Android* device.
- Scanner (*Zebra Android*): Fixed an issue that prevented the disabling of the transmission of the Check Digit for the UPC-X symbology.
- Scanner (*Zebra Android*): Fixed an issue that caused the country code to be added to the decoded string when only a system character was specified in a Scanner Profile with UPC-X symbology.
- Scanner (*Zebra Android*): Fixed an issue that caused a Code 11 barcode without Check Digit to be decoded even if a Check Digit is specified in the Scanner profile.
- Scanner (*Zebra Android*): Fixed a potential crash while receiving the result of an Input Barcode scan in a *Zebra Android* device.
- Scanner (*Zebra Android*): Fixed a potential crash when attempting to scan a 5 Supplemental barcode.
- Scanner (*Zebra Android*): Fixed an issue that prevented the scanning of EAN8, EAN13 and UPCA barcodes without supplementals.
- SIP (*Android*): Fixed a potential issue that prevented the SIP to close properly when changing screens.
- Other minor fixes.

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6. *MCL-Client 4.9.01.24430* Update (P01)

6.1 New Devices

- ✓ ZBR_TC8300_AD8
- ✓ ZBR_TC70X_AD8
- ✓ ZBR_*_AD* *Zebra Generic Android device*

6.2 New Features

- *MCL-Voice Login App*: version updated to *5.38*.
- Processes: Added support for *the MCL-Mobility Platform's "Business Analytics"* service. The purpose of this service is to have the *MCL* application collect metric information and send it to the *MCL-Mobility Platform* where it can be processed and displayed by dashboards/widgets for analysis. *MCL-Client* handles the metric data collecting and dispatching to *MCL-Agent*. This feature ONLY applies to paired devices with an *MCL* subscription and *MCL-Agent* version 4.09P01 and above.
- Processes: Added support for the Background Procedures feature available in *MCL-Designer*. Background Procedures are similar to standard programs but are executed asynchronously/in secondary threads, without user interface (**ex: no screens or controls**).
- Processes: Added support for *OAuth2* for all supported *Android* devices. *OAuth 2.0* is a standard authorization protocol designed to allow the access of authorized users to external hosts without exposing personal information.

6.3 Enhancements

- Added support for "self-shopping" cradle through the use of system variables.
 - ✓ IO_CRADLE_LOCK – Control cradle lock state
 - ✓ IO_CRADLE_LED – Control the cradle led
 - ✓ IO_CRADLE_INFO – Retrieve cradle info(Implemented for the *Zebra EC30* and *Datalogic Joya* cradles).
- Communication (*Android*): Now, communication between devices using the *MCL Login App* or the *Messagebox Service* and the *MCL-Mobility Platform* requires TLS1.2. If not implemented by the manufacturer, the devices with an *Android* version lower than **5** will NOT be able to communicate with the *MCL-Mobility Platform* when using the stated services.
- Data Files: Now, Local File Operations are allowed on Data Files being used by a Control (**ex: File Browse, Grid, etc.**).
- Data Files: Now, it is possible to use the "File Copy" process to copy a file when the destination points to a folder (before, you had to define the destination file name).
- Data files (*Android*): Now, when using a shared location (**ex: "<SHARED>"**) with 3rd party apps and using files as an exchange protocol, *MCL-Client* follows the *Java FileLock* mechanism.

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- Files: Now, copying a file used by a 3rd party application with a Data File's "File Copy" process may return an error – if so, the error is a consequence of how the 3rd party application is written.
- Local Database: *SQLite* updated to 3.30.1.
- *MCL-Voice Login App*: Added possibility to force Operator Login Authentication, exclusively, through an External Reference.
- Processes: Now, when the target of the "Delete Directory" process is missing or set to a non-defined alias, it is NO longer resolved as "<DEFAULT>". The generic fallback mechanism for alias resolution is disabled for this Data File process.
- System (*Android*): New location of the "<RAM>" & "<FLASH>" aliases:
 - <FLASH> - /data/user/0/com.mcltechnologies.android.client.mot/app_files/
 - <RAM> - /storage/emulated/0/Android/data/com.mcltechnologies.android.client.mot/files/tmp/ram/
- Minor stability enhancements.

6.4 Bug Fixes

- *App Desktop (Android)*: Fixed a potential issue that prevented the display of the *MCL* Logo in *App Desktop's* pop-up windows.
- *App Desktop (Samsung)*: Fixed a potential crash when disabling the "Admin Rights" and, immediately, starting *App Desktop*.
- Controls: Fixed issue that affected the checking/unchecking of the CheckBox control: Previously, if the operator entered/spoke any other value than the value representing "checked", this would uncheck the control. Now, the control will ONLY be unchecked if the keyboard or speech input refers to the value that was defined to represent "unchecked".
- Controls (*Windows*): Fixed issue that affected Control behavior. Previously, changing the state of a control could, incorrectly, trigger a "Validate" event.
- Local Database: Fixed an issue that affected the Local Database – previously, the import of data into the Local Database using *SQLite* transactions could lead to an unexpected User Interface (Controls) update.
- *MCL-Voice Login App*: Fixed an issue that caused a wrong screen orientation during application startup.
- Processes: Fixed an issue that prevented the "Check Directory" process from working properly.
- Processes: Fixed the issue that caused the Data File's "Write a Record" process to fail when dealing with empty Data File fields.
- Processes (*Windows*): Fixed an issue in the "File Check" process that was not taking the *DST* (Daylight Saving Time) into account when reporting date and time – only valid for devices with an *Operating System* that supports this.

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- Processes (*Windows*): Fixed an issue in the "Zip/Archive" related processes that ignored *DST* (Daylight Saving Time) information when setting a file's timestamp.
- Processes: Fixed a potential crash when using the "Extract from Archive" process with a pattern and when the destination folder is empty.
- *Remote Control (Android)*: Fixed a potential issue that affected the Remote Control session when an *MCL* software component was not in the foreground.
- Screens (*Android*): Fixed a random/sporadic engine crash caused by a succession of pop-up screens/windows.
- Screen Orientation (*Android*): Fixed an unwanted rotation between *App Desktop* and the *MCL Login App* that would occur under certain circumstances.
- Screens (*Windows*): Fixed a potential crash that could occur when the execution flow exited a procedure that triggered a screen transition.
- Speech: Fixed a potential crash when generating Voice Logs.
- System (*Android*): Fixed an issue that caused the "Apps" folder to be created in the *MCL* root.
- System (*Android*): Fixed an issue that prevented the manual installation of *MCL APKs* in *Android 10* devices.
- System (*Android*): Fixed an issue that could prevent certain screens from being rendered properly when the UI stack is invoked.
- System (*Android*): Fixed an issue that prevented UI events from being captured when the device's screen was off.
- System (*Android*): Fixed a sporadic crash that occurred when a SIP appeared unexpectedly in front of the screen.
- System (*Android*): Fixed an issue that could lead to a delay of a few seconds in the first communication attempt between the devices and the *MCL-Mobility Platform* (to execute a Login operation via the *MCL Login App*), if the devices in question were behind a proxy.
- System (*Windows*): Fixed issue that unexpectedly created a default application folder ("apps\default") after a PDK installation.
- System: Fixed a potential freeze of applications using RFID and Scanner when running an *MCL-Tracer* session.
- Zip Archive (*Windows*): Fixed issues that lead to the reporting of wrong date/time info in extracted files.
- Zip Archive (*Android*): Fixed an issue that prevented the "File Extract" process from setting the correct timestamp for the extracted file.
- Other minor fixes.

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