Android Edition Reference Guide

FEBRUARY 2021

checkmate

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Introduction

CheckMate Android Edition software provides a simple way to capture and consolidate operational data in Transport, Logistics and Warehousing operations.

The Android client is used to capture and record data from a connected Cubetape scanner/dimensioner, scale, and can include images from the integrated Android camera. The software can be configured to include most data items commonly used in Masterdata and Revenue protection applications. A list of supported data items is provided at Schedule 1.

In standalone mode data can be manually sent as a CSV file attached to an email. In networked mode data is transferred automatically to a server over a wireless connection. The server can support and consolidate multiple Android clients allowing staff to view, edit, search, select and export data for integration with other back office processes including masterdata, billing, revenue protection and customer service. Back end data integration can be automated using a APIs or push-pull process.

Installation

The application is available directly from Parceltools. Download the Checkmate.apk file and open it to start the installation process.

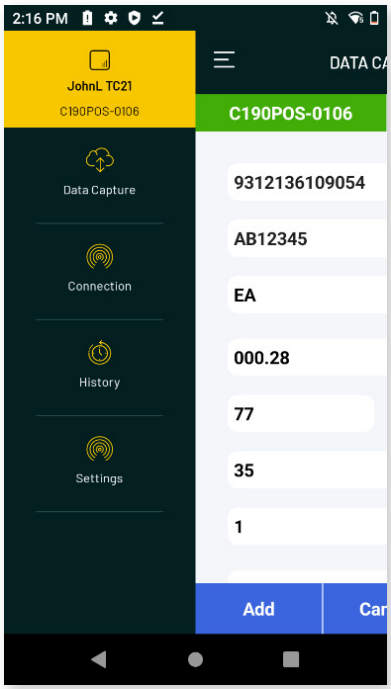
The file is also available for download by scanning the following QR code.

Checkmate

Licensing

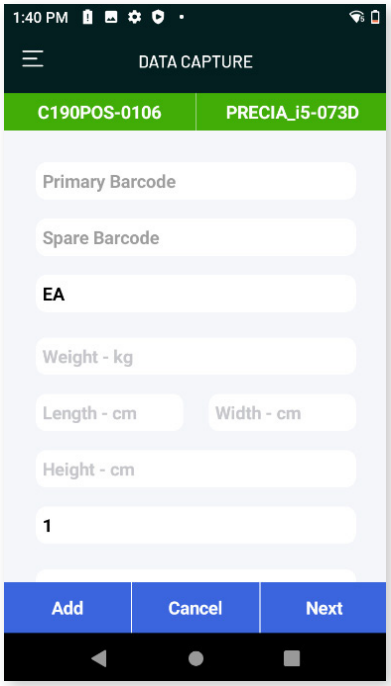
TBA

Application Summary and Screens



Main application functions can be accessed from anywhereby pressing the menu icon.

This gives access to **Data Capture, Connection, History** and **Settings**.



The data capture screen records and displays the data sent by connected Cubetape devices or retrieved from the optional scale and can include captured images from the inbuilt Android camera.

Cubetape and scale connection status is shown at the top of the screen, data items are in the screen body, and workflow process steps are available at the bottom of the screen.

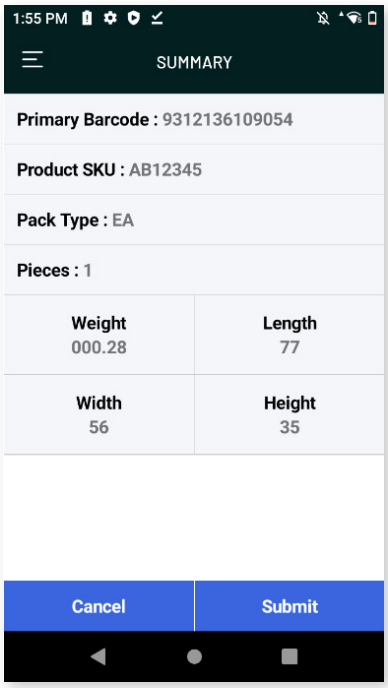
Only those data items in use are displayed, and these can be configured in Settings.

Add is used to add additional item records in applications where several items are grouped together under a single reference barcode. This is common in freight forwarding and US LTL.

Cancel clears the screen.

Next either confirms the record by writing to local memory or displays a summary screen.

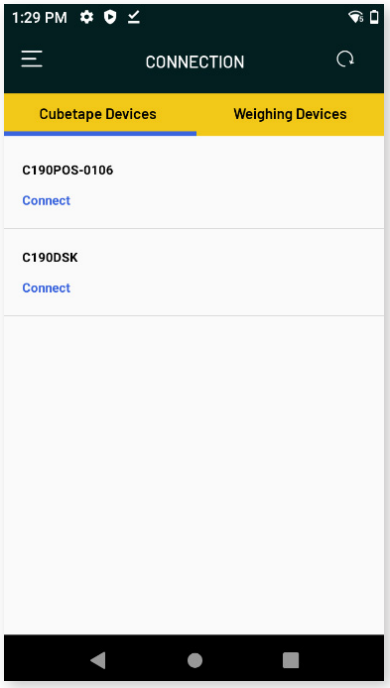
The behaviour of **Add** and **Next** is configurable in Settings.



When configured for use, the **Summary** screen can be used to check all item details recorded.

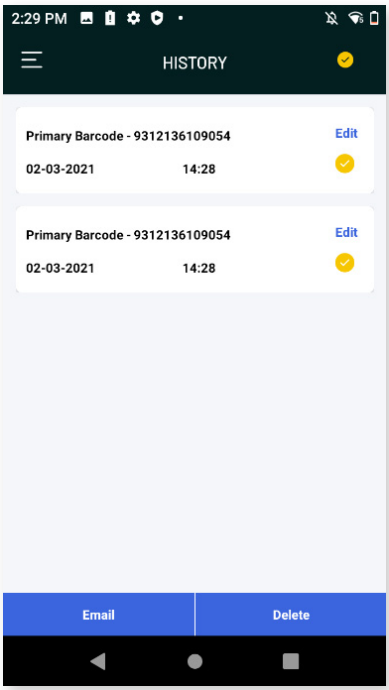
Cancel allows the data to be corrected.

Submit confirms the data by writing it to local persistent memory.



The **Connection** screen allows Bluetooth pairing and connection to Cubetape devices in the left column, and weighing devices in the right column.

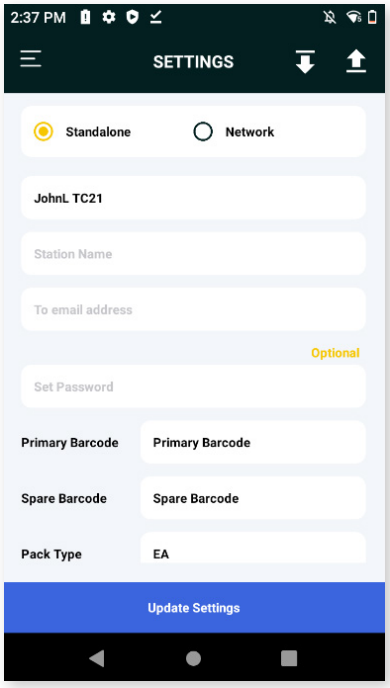
Devices and Scale indicators can be connected and disconnected as required.



The **History** screen allows access to all confirmed records stored locally on the device. Individual records can be edited and deleted.

When the application is in **Standalone** mode, records can be output as a csv file attached to an email.

In **Network** mode, records are automatically sent to the Enterprise Server and do not accumulate in History unless the wifi connection fails.



The **Settings** screen allows access to all configuration Options and Settings.

These are described in detail below.

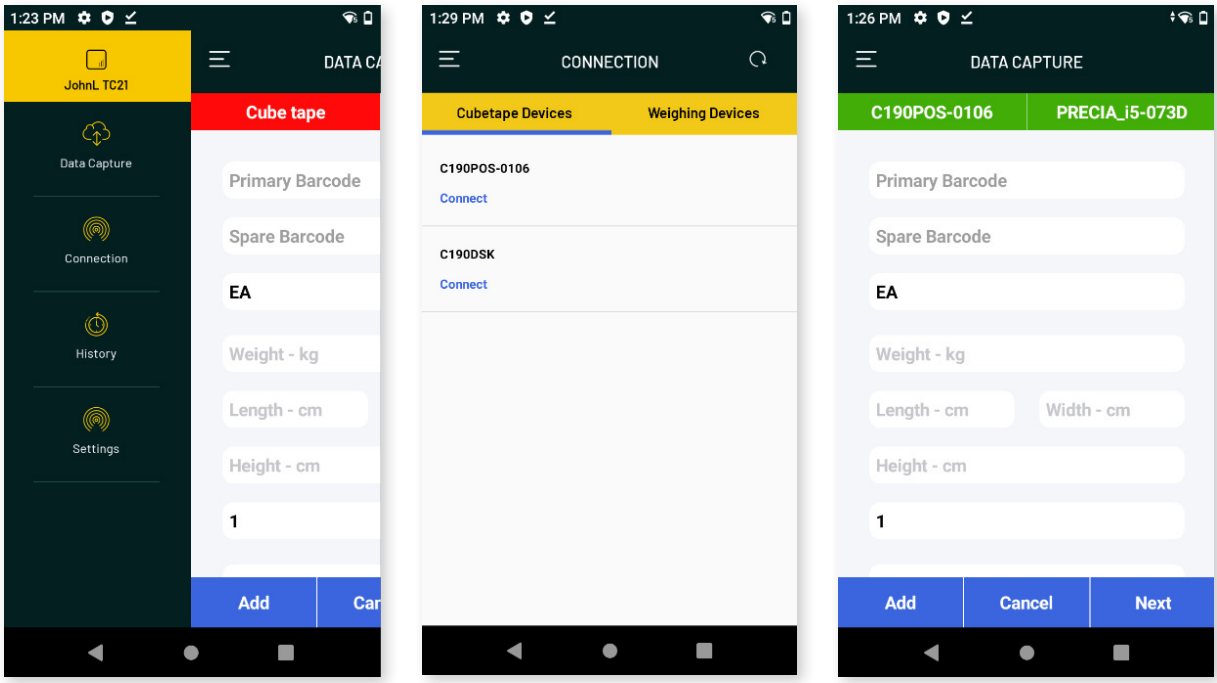
Device Configuration and Connection

For CheckMate to receive data from Cubetape POS or PRO scanner/dimensioners, they must be configured for Bluetooth Applications (SPP) mode, and with data suffix set to CR.

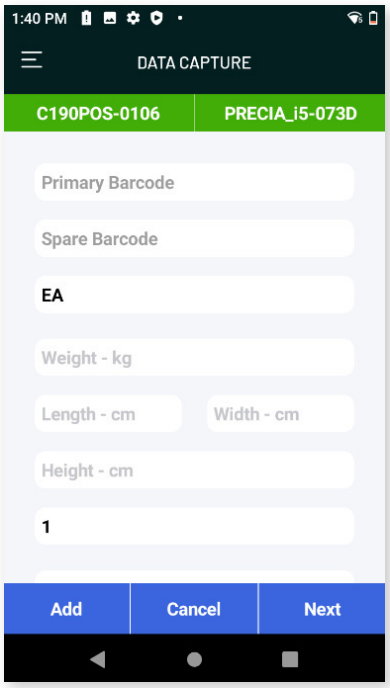
Detailed configuration steps are available in Schedule 2.

For CheckMate to receive weight data from a scale indicator, it must be provisioned with Bluetooth and use a supported serial scale protocol.

Pairing and connection is managed from the Connection item on the menu. Cubetape and Weighing devices can both be connected from this screen and are highlighted in green on the data capture screen when successfully connected.



Data Entry Processes and Options



Item data can be entered into available fields in the data capture screen using the following methods:

Cubetape POS or PRO - once the device is connected, general purpose barcodes (for instance AWB numbers or EAN numbers) and dimensions are generally input directly from the device over Bluetooth connection.

Keyboard - if required data can be entered using the native Android on-screen keyboard or a physical keyboard if this is included with the Android device.

Voice - using the Android voice input option.

Available data items and input methods are summarised in Schedule X.

Settings and Modes

CheckMate Android Client is highly configurable.
This section summarises the available settings and typical use cases.

Setting	Description
Standalone - Network	Standalone mode allows data collection and storage on the device only. Export of data is available via csv file attached to an email. Network mode automates data export over wifi to the CheckMate Enterprise Server using a Restful API interface.
User Name	Text field for inclusion in exported data eg “John Smith”
Station Name	Text field for inclusion in exported data eg “Sydney West”
To Email Address	Destination email address for Standalone mode
Set Password	Optional field to prevent casual access to Settings
IP Address	IP address for Network mode
Port	Port number for Network mode
Primary Barcode (required)	Main reference number typically used for AWB/Probill or EAN number. Field is required, but screen label can be customised to suit given application
Secondary Barcode (optional)	Optional second reference field. Screen label can be customised to suit application
Pack Type (optional)	Used to indicate packaging type such as EA, Outer or Pallet. Default value is specified in Settings and can be overridden at data capture time if required
Pieces (optional)	Used to record items in a shipment or items per pack type
Weight (optional)	Capture item weight from connected scale
Length, Width, Height (required)	Capture item dimensions from connected Cubetape
Photos (optional)	Capture up to 10 images per item using native Android camera
Multipiece (on/off)	Allows operator to group multiple items under a single reference number. Typically used in US LTL and Freight Forwarding operations
Summary Screen (on/off)	Allows check of item details before confirmation and write to device memory
Weighing Units	lb, oz, kg, g - for inclusion in item record
Measuring Units	in, m, cm, mm - for inclusion in item record
CSV Separator	comma or semi-colon
Decimal	full stop or comma
Date Format	MM-DD-YYYY or DD-MM-YYYY
Font Size	Small, Medium, Large
Language	English, German, French, Spanish
Upload/Download	Allows upload and download of configuration file to assist setup and provisioning

FAQs

Units are controlled at source. For example this means that if units required are “nearest cm” and “kg”, these should be set in Cubetape and Scale devices respectively. The role of CheckMate Android is to record original values produced.

CheckMate Android Edition is supported on Android Version XXX and upwards.

Screen Layouts.

Supported Scales.

CheckMate Enterprise Server.

Schedule 1 - Supported Data Items and Properties

Item	Source	Properties
Date	Android Real Time Clock	DD.MM.YYYY
Time	Android Real Time Clock	HH.MM
Username	Field from Settings	24 characters max
Station Name	Field from Settings	24 characters max
Primary Barcode	Data Entry	7 characters min
Secondary Barcode	Data Entry	No restrictions
Pack Type	Default from Settings or Data Input	15 characters
Pieces	Data Entry	5 characters
Weight	Cubetape/CheckMate	8 characters
Weighing Unit	Settings	lb, oz,kg, g
Length	Data Entry	6 characters
Width	Data Entry	6 characters
Height	Data Entry	6 characters
Measuring Unit	Settings	in, m, cm, mm
Photos	Android Image Capture	10 per item

Schedule 2 - Device Configuration

The minimum requirements to connect Cubetape POS or Cubetape PRO to CheckMate Android Edition are:

C190POS: **Workflow** = 1DIM

Suffix = CR

Bluetooth = Application Mode (SPP)

Scan the following configuration barcodes for C190POS configuration:


Default Factory Setting


Workflow 1DIM


Suffix = CR


Bluetooth Application Mode (SPP)

For assistance with PRO configuration and supported scales please refer to your reseller or email **info@cubetape.com**

www.cubetape.com

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