

# 3M Security Systems



## 3M™ Swipe Reader SDK Linux® Quick Start Guide

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## 1 Introduction

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## 1.6 References

Description	3M Part No.

## 1.7 Revision History

Version	Date	Description
V1.0	04/09/2012	First draft

## 2 Purpose of Document

This document details the differences between the 3M™ Swipe Reader SDK for Linux platforms, compared to the Microsoft® Windows® platform. Excepting those differences covered by this document, all other documentation provided can be assumed to be accurate for both platforms.

## 3 Supported Operating Systems

This SDK is not compatible with every Linux distribution and version in circulation. We offer support and provide builds of the SDK for the following Linux distributions:

- Ubuntu LTS “Lucid Lynx” 10.04
- CentOS 6.3

## 4 Compatible Devices

The Linux platform does not support all 3M full page readers. Listed below are the supported readers on this platform:

- 3M™ CR-100 Document Reader
- 3M™ CR-100M Document Reader

## 5 Installation

Inside the root directory of the SDK package is a bash script, ***install.sh***, which performs the installation. The script will confirm acceptance of the SDK terms and conditions, and then install the SDK libraries and drivers

### 5.1 Prerequisites

The following 3rd party libraries must be installed before running the SDK installer, as they are not provided as part of this package:

- **libusb 1.0**

### 5.2 SDK Libraries

The libraries are installed to the ***/usr/lib/MMM/*** directory, with symbolic links in the ***/usr/lib/*** directory for the following libraries:

- **libMMMReaderLowLevelAPI.so**

The installer will give the option to skip this step if required. To install to a different location, each library will need an updated RPATH value, which by default points to ***/usr/lib/MMM/***.

## 5.3 Installer Options

The following flags can be used with ***install.sh*** to alter its operation:

- **-L or --no-libraries**
  - SDK library installation will be skipped.

## 6 Applications, Samples and Utilities

The Linux platform has a limited subset of the applications provided on the Windows platform, which this section will now detail. Microsoft® .NET Framework applications are also provided, as many Linux distributions have the capability to run these applications with no changes. As with Java® applications, the libraries necessary to run these applications are not provided as part of the SDK.

### 6.1 Common Applications

The following compiled applications are provided with both the Linux and Windows releases of the SDK. These applications all function in the same way on all platforms.

- Swipe Reader Command Prompt Example
- Swipe Reader Messages Example (.NET)
- Swipe Reader Messages (Java)

### 6.2 Common Samples

Sample projects are also provided for the following applications:

- Swipe Reader Command Prompt Example (GCC C++ Makefile)
- Swipe Reader Messages (Visual C# Project)
- Swipe Reader Messages (Java)