

Description

Thank you for choosing the Kovera System Development Kit (SDK). The Kovera SDK has two main program sections, the Demonstration (Demo) program and the Utility program. This document will only refer to the Demo part of the SDK. For more information on the Utility Program, please refer to the online help system.

This Kovera SDK contains the following items:

Kovera card reader, USB cable, Kovera Software CD-ROM, Quick Start Guide, Sample Tags*

Quick Start

PC requirements: Windows 2000, WindowsXP, or Vista

Step 1: Install the Kovera Software

Insert the Kovera Software Installation CD into the computer. If the program does not automatically install, click on KoveraInstall.EXE and follow the online setup windows.

Step 2: Connect the Reader to the Computer

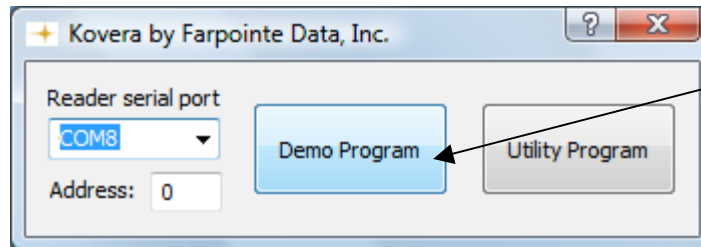
Connect the reader to the host PC with USB cable as shown.



Step 3: Run the Program



Click on the desktop shortcut to start the program. Highlight the COM port the reader is connected to, and then select Demo Program. The Utility program is intended for developers to explore the programming commands.



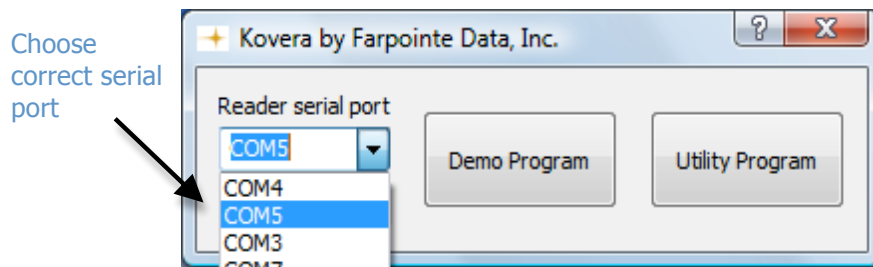
Select the Demo Program

*Supported card/tag(s): Kovio K14T1/2, K14B1/2, and K2SB1
Mifare Ultralight, Mifare 1K, Mifare 4K

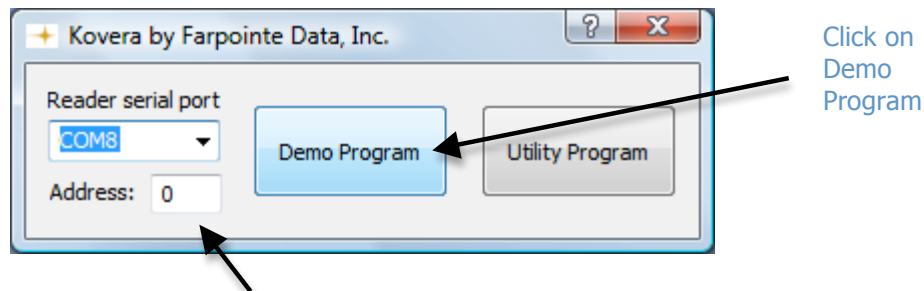
Program Details

When the program is run for the first time, there are a few items that need to be set up.

1. Select the correct serial port. This is chosen under the "Reader Serial" field when the program begins. The number will depend on which serial port your reader is connected to. If the program does not detect a functioning reader on the port selected, an error message will result. If this is the case, a different serial port must be selected. The program will not continue until it finds a reader connected to the selected serial port.



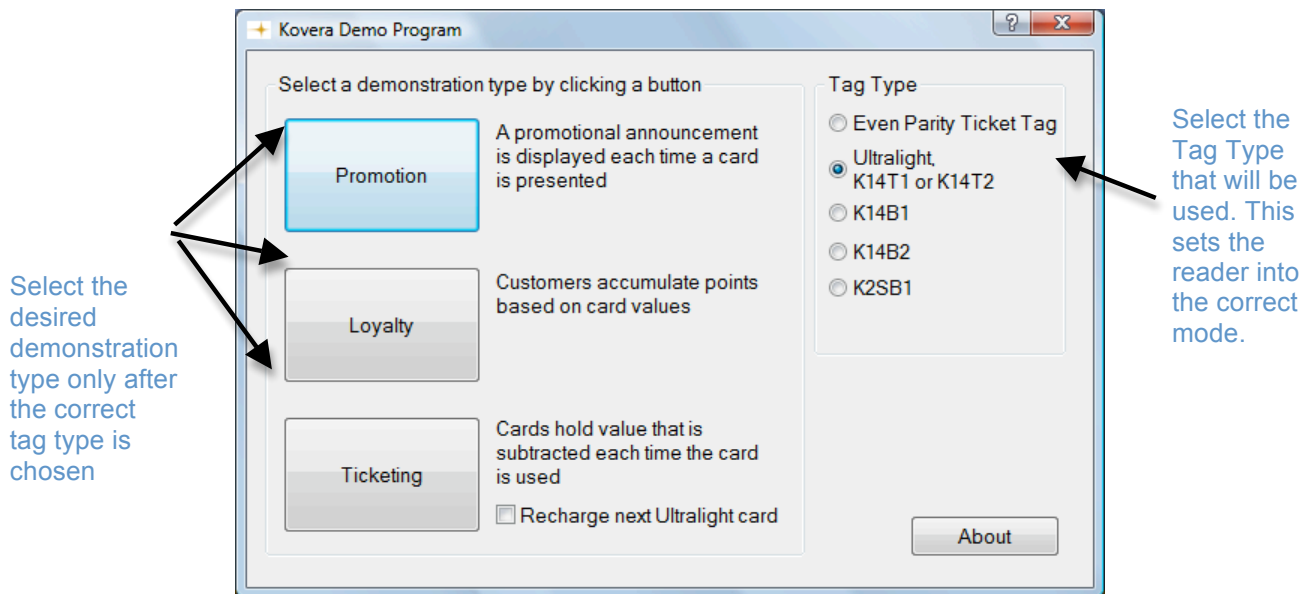
2. To run the Demonstration program, select the Demo Program button. For more information about the Utility Mode, see the extensive Online Help.



Kovera Reader default address is 0 on power-up

The next step is to choose the "Tag Type". The type of tag that will be used must be highlighted for the Demonstration to work properly; otherwise the reader might be unable to recognize a tag when it is presented.

The initial "Tag Type" selected is obtained from the reader and matches its current configuration. If the same type of tag is always used, the "Tag Type" should not change and does not need to be reconfigured each time the program is restarted.



- There are three different types of Demonstrations available in the demo mode: promotion, loyalty, and ticketing. Select the demonstration type by clicking one of the buttons. Follow the directions given on screen to complete each demonstration. *Not all tags support the ticketing demonstration. For those tags, the demonstration button will be grayed out.*

To close a window, or exit out of a selected Demonstration mode, click on the upper right hand corner, or press the ESC key.

- Promotion** – this demonstrates how the system can be used for product promotion. A user can present a product with a tag to earn “points” toward a reward. After the user presents the tag in this demonstration, a product website is brought up that includes more information about the company and products that it sells along with updated reward information.

The promotion demonstration can be customized with tailored text and directed to specified web pages. Details about how to do this can be accessed through the online help. It can be found under the Demo help system's page titled “Customizing the Demo Program”.

- Loyalty** – After a tag is presented, the user gets a message about accumulated “points” and how to redeem them.
- Ticketing** – The ticketing mode will decrement the tag each time it is used, the number of times that are left will be displayed. If the tag needs to be recharged select the “Recharge next Ultralight tag”, and the next time the tag is presented, it will be recharged with 32 uses.

Troubleshooting

The following is a list of error messages or unexpected functionality that may be encountered, and how these issues can be addressed.

No response from reader.

Make sure the correct tag type is chosen in the main Demo screen (see step 2 under "Program Details" for more information).

Demonstration type grayed out.

The current tag type selected does not support the functionality that is grayed out. For example, if the tag type doesn't have decrement capability, the ticketing mode will be grayed out for that tag.

Reader beeping.

One beep from the reader means an operation was completed successfully. If there are two beeps then the operation was unsuccessful. An unsuccessful reader operation may occur if:

- The tag was presented in rapid succession
- The incorrect tag is selected under "tag type"

Wrong demonstration type selected, need to return to main setup page.

In order to return to the main demo page, close the window that is currently running. To do this, click on the upper right hand corner, or press the ESC key.

Reader and/or program not responding.

Reset the reader by disconnecting from the computer and waiting a short period before reconnecting. Close the program and restart by clicking on the shortcut icon, or selecting it under the program menu.

Error message: There does not seem to be a USB Virtual Com Port Installed. You will need to install the USB COM port driver to communicate with Kovera readers. This message may also appear if the drivers are installed but no Kovera reader is connected.

The program has detected that there is no reader connected to the computer. A Kovera reader must be connected in order to run the Demo program.

Error message: There does not seem to be a functioning reader on COM(X) at address N.

The program has not detected a reader on the port(X) selected; make sure the reader is connected to the selected port. Also make sure that the reader address has been set correctly to 0, the correct port has been selected, and the cable is properly functioning. The power on reset default address is 0.

If the error message after the program tries to confirm the reader type is in this format: "Error: FDI_XXXX Error", then Windows is reporting that a resource needed to support communication with the reader has failed. The system may be running low on memory or may have been corrupted in a way that the communication library cannot analyze.

Error Message: Failed to open serial port

There was an error in opening the serial port. The selected port might already be open, doesn't exist, or might have a corrupt driver. Refer to the driver documentation for more help.

Error message: Tags parity doesn't match selected type.

Make sure that correct tag type is chosen in the main Demo screen

Error message: Card has not successfully recharged. Please try again.

When attempting to recharge the card, this message will be displayed if the recharge was not successful. The recharge functionality is for the Mifare Ultralight cards. The K14T1/K14T2 cannot be recharged; new cards must be purchased after they are depleted.

The Kovera reader uses the Delta USB hardware. The Delta USB reader is compliant with the following organizations:



FCC Compliance Statement: This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The user is cautioned that making changes not approved by Farpointe Data may void the user's authority to use this equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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