

A600 Tag Controller



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The user of this system is cautioned that any changes or modifications to this system, not expressly approved by RF Code, Inc., could void the warranty.

FCC Compliance

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

RF Code is not responsible for any radio or television interference caused by using other than recommended cables and connectors or by unauthorized changes or modifications to this equipment. Unauthorized changes or modifications could void the user's authority to operate the equipment.

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.

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Industry Canada Compliance Statement

This Class A digital apparatus meets the requirements of the Canadian Interference-Causing Equipment Regulations.

Avis de conformité à la réglementation d'Industrie Canada

Cet appareil numérique de la classe A respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

The system is design to operate with RF Code tags – Whose operating frequency is 433.92 MHz which have been certified or are in the certification process. These devices comply with part 15 of the FCC rules. Operation is subject to the following two conditions:

- (1) these devices may not cause harmful interference, and
- (2) these devices must accept any interference received, including interference that may cause undesired operation.
 - a. FCC ID: P6F2005433 for beacon intervals greater than, or equal to 10 seconds.
 - b. FCC ID: P6F433MHZ for the security tag with beacon intervals less than 10 seconds.

CE Compliance

This is a Class A product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures. This equipment complies with the requirements relating to electromagnetic compatibility, EN 55022 class A, the essential protection requirement of Council Directive 89/336/EEC on the approximation of the laws of the Member States relating to electromagnetic compatibility.

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Overview

RF Code introduces the A600 Tag Controller, Tag Controller Utility software and Tag Controller-enabled Active RFID Tags with special features that allow tags to beacon on-command or be put to sleep temporarily (to meet radio transmission interference requirements in certain environments, or to conserve battery life during periods of non-use or extended storage). A wake-up feature is consequently available to bring the tags out of sleep mode. This new tag technology provides increased capabilities for inventory and security purposes. The A600 Tag Controller can be used to control any of the RF Code M-Series or R-Series tags that are labeled as Tag Controller-enabled tags. The Tag Controller can be used in “Stand-alone” mode, which allows it to perform the beacon now and wake functions without the use of any application software. The Tag Controller can also be used in “Application” mode in either a “manual entry” or “reader assisted” fashion. In “manual entry” mode, the utility has no communication with a fixed or mobile reader and all input data must be entered manually into the application. In “reader assisted” mode the utility communicates with a fixed or mobile reader to reduce user input and make the “flow” much more automatic. When reader-assisted, the Tag Controller Utility will communicate to an RF Code reader in one of the following ways to provide a full feedback loop.

- Network connection to a fixed reader
- Serial connection to a fixed reader
- USB (serial) connection to a mobile reader
- *Bluetooth* connection to a mobile reader
- Network connection to Zone Manager

Features

- Make tags beacon immediately for asset arrival and removal notification, or for asset locating
- Put tags to sleep to comply with policies that prohibit radio transmission
- Conserve battery life of tags for extended periods of storage or non-use

Contents

- A600 Tag Controller
- Tag Controller Utility CD
- User Manual

Requirements

- Windows XP or Vista
- Tag Controller Utility

Hardware

The A600 Tag Controller is a 4.37 in (111 mm) x 0.99 in (25.1 mm) x 3.01 in (76.5 mm) device that has an injection-molded chassis of high-impact ABS plastic. It is powered through the built-in USB connector and has four LED indicators:

- Power - indicates the Tag Controller is receiving power
- Wake - indicates that the Tag Controller is in wake mode
- Beacon - indicates the Tag Controller is in beacon mode
- Program - indicates that the Tag Controller is being used in conjunction with the Tag Controller Utility software

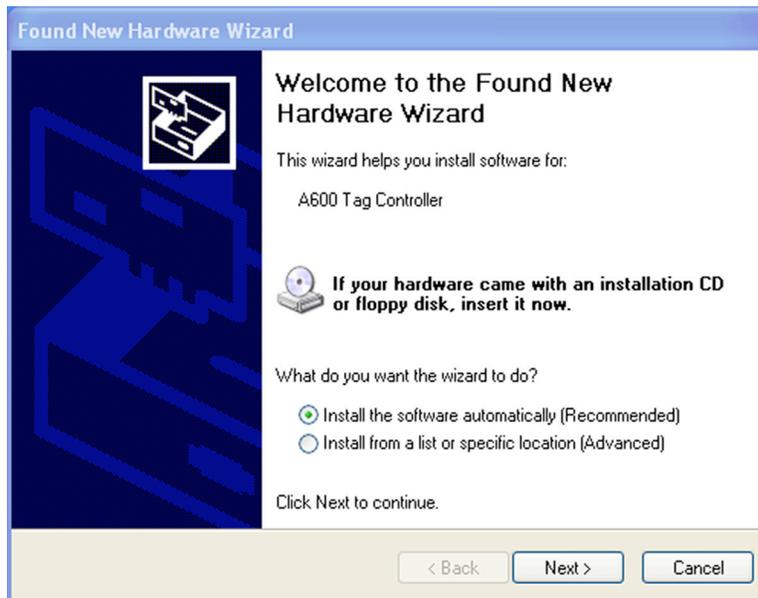
There is also a Mode button on the surface of the unit that must be depressed when putting Tag Controller-enabled tags into sleep mode. There will be an audible “beep” that indicates that the Tag Controller has caused the tag to either wake, beacon or go to sleep. The Tag Controller is directional and functions by placing the top edge in close proximity to the tag to wake the tag, make the tag beacon or put the tag to sleep. The placement of the Tag Controller and tag are indicated by the labeling with two directional arrows and the word, “Tag”.



Installation

When first connecting the A600 Tag Controller to a PC, driver software will need to be installed. This will be performed through the Found New Hardware Wizard that should automatically load when the USB cord of the Tag Controller is plugged into the computer. Follow the steps in the wizard to locate the driver software for the A600 Tag Controller. This software is located on the Installer CD that came with the A600 Tag Controller. In the “Found New Hardware Wizard”, select **Install from a list of a specific location (Advanced)**, then click **Next**. Browse to the folder on the CD that contains the file **RFCUSB.inf**, then click **OK**. If a prompt appears that the driver software is not signed, click **Continue Anyway**.

Figure 2: A600 Hardware Installation Wizard



Tag Controller-Enabled Tags

Tag Controller-enabled tags are specially engineered versions of RF Code tags that respond to the following Tag Controller commands:

- Wakeup - Will cause a sleeping tag to “wakeup” and begin beaconing at regular intervals.
- Beacon Now - Will cause the tag to immediately beacon.
- Sleep - Will cause the tag to go into a sleep state and will prevent the tag from beaconing.

The tag status is controlled through the Tag Controller and the Tag Controller Utility. A Tag Controller-enabled tag is identified by a Tag Controller icon indicated on the label.

Figure 3: Tag Controller-Enabled Tag



Utility Software

Installation

To install the Tag Controller Utility insert the CD into the CD-ROM drive and click on **Install Tag Controller Utility** to begin. If the CD autorun program does not launch the CD main menu, use a Windows Explorer window to browse to the CD drive and double-click the **RF Code Tag Controller Utility CD Menu file** to start the auto-run program or install the Tag Controller Utility directly by double clicking on the **setup.exe** file. This will launch the install wizard. Follow the prompts to install the utility.

Figure 4: Tag Controller Utility Installation Wizard



Launching the Tag Controller Utility

After installing the application from the CD, select **Start > All Programs > RF Code > Tag Controller Utility > Tag Controller Utility** to launch the application and display the main screen. The utility is used in conjunction with the Tag Controller. The Tag Controller's USB cable needs to be plugged into an available USB port on the computer that is running the utility software.

Configuration

The configuration features available in this utility can be accessed by navigating to **Action>Configuration**. This will produce a Configuration menu. There will be several tabs displaying different configuration options which are described below:

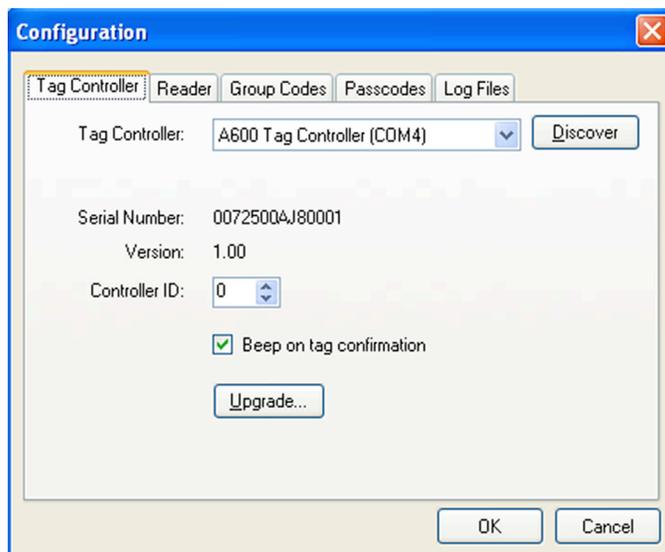
Tag Controller

In this configuration option, a Tag Controller unit that is plugged into the computer running the Tag Controller Utility can be discovered. This can be performed through clicking the **Discover** button. A Tag Controller will need to be chosen from the drop-down menu. Assign a Controller ID to the device and choose to have the controller "beep" upon tag confirmation or not by selecting the checkbox. The user can also update the firmware for the tag controller device by clicking the **Upgrade** button.



For proper operation, all A600 Tag Controllers must have unique Controller ID numbers. The default Controller ID is 0.

Figure 5: Tag Controller Tab for Configuration Feature

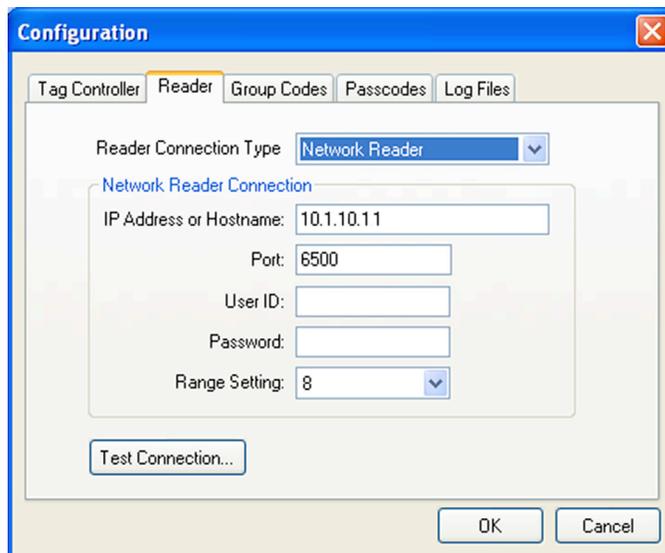


Reader

This configuration option allows for specification of use of manual tag ID entry or reader-assisted tag ID entry. To specify a particular option one of the following reader connection types will need to be chosen from the drop-down menu:

- **None (manual Tag ID entry)** - In this case, manual entry of the tag ID in the main screen of the utility is needed to control the tags.
- **Network Reader** - In this case, a networked reader will be utilized to discover the tag ID to allow control of the tag. Input the hostname and port number of the reader. The user ID and password will need to be specified for the reader ONLY IF this has been configured for the reader with the Reader Configuration Utility (please see the [Reader Configuration Utility User Manual](#) available on the Downloads page of the RF Code website for instructions on using this utility software). The range setting on the reader can also be set here. A setting of “1” is the shortest range setting and will allow the reader to only see the tags which are closest to it, while a setting of “8” is the longest range setting and will allow the reader to see the maximum number of tags possible. Once the network reader information has been specified, the **Test Connection** button can be clicked to test connectivity to the specified reader.

Figure 6: Network Reader Selection in Reader Tab

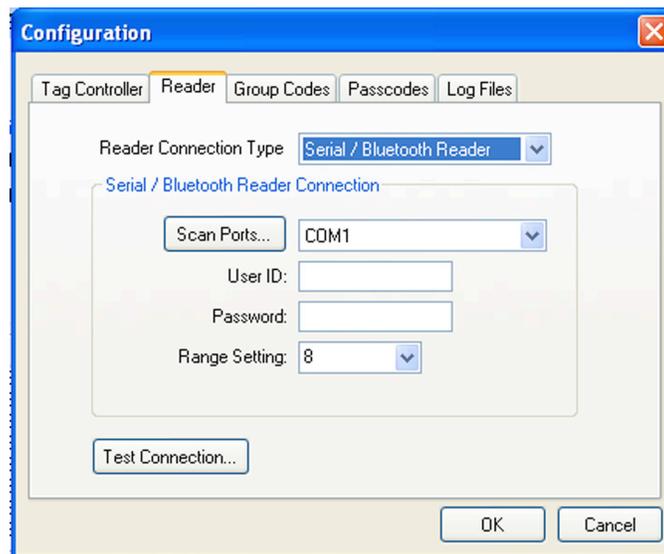


- **Serial/Bluetooth Reader** - In this case, the M220 Mobile Reader will be connected to the PC through a *Bluetooth* connection or a fixed reader will be connected through a serial port. A properly configured M220 *Bluetooth*-enabled Mobile Reader will show up as a COM port in the Windows Device Manager. A reader should be chosen by clicking the **Scan Ports** button. This will scan the users computer to find COM ports that have RF Code readers attached. Select the COM port from the drop down menu and click the **Test Connection** button. This will test the connection to the reader and will display the reader identification information. If a user ID and password have been previously set for the reader using the RF Code Reader Configuration Utility, these must be entered to interact with the reader. Select a range setting from the drop-down list. A setting of “1” is the shortest range setting and will allow the reader to only see the tags which are closest to it, while a setting of “8” is the longest range setting and will allow the reader to see the maximum number of tags possible.



If the reader is connected to a PC and is not showing up when you click the **Scan Ports** button, make sure that there are not any other programs open that are accessing the COM port that the reader is using (e.g. RF Code Reader Configuration Utility). This competing application will need to be exited and the **Test Connection** button should be clicked again.

Figure 7: Serial/Bluetooth Selection in Reader Tab



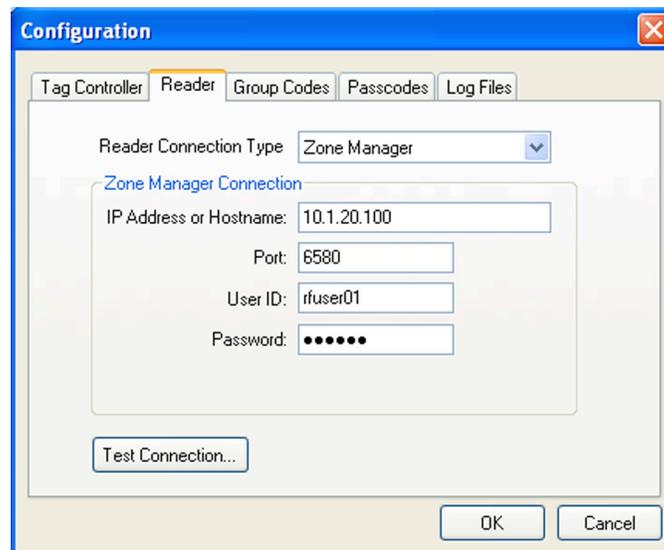
- **Zone Manager** - In this case, all readers being managed by a Zone Manager will be utilized to discover the tag IDs to allow control of the tags. Input the hostname, port number, user ID and password to connect with the Zone Manager. The default user ID and password for Zone Manager are blank. Check with the administrator who configured the Zone Manager to see if security has been enabled for the reader and a custom user id and password have been set. Once the Zone Manager information has been entered, the **Test Connection** button can be clicked to test connectivity to the specified Zone Manager. In order for the Tag Controller Utility to work with Zone Manager, the report triggers parameter must be enabled for each reader being managed by Zone Manager that will be used.

In Zone Manager using the Telnet Interface:
 readerset <reader-id > reporttriggers=true

HTTP interface:
 http://<base-url>/rfcode_zonemgr/zonemgr/api/readerset?id=<reader-id>&reporttriggers=true

Refer to the RF Code [Zone Manager API Specification](#) document for more details on enabling this setting.

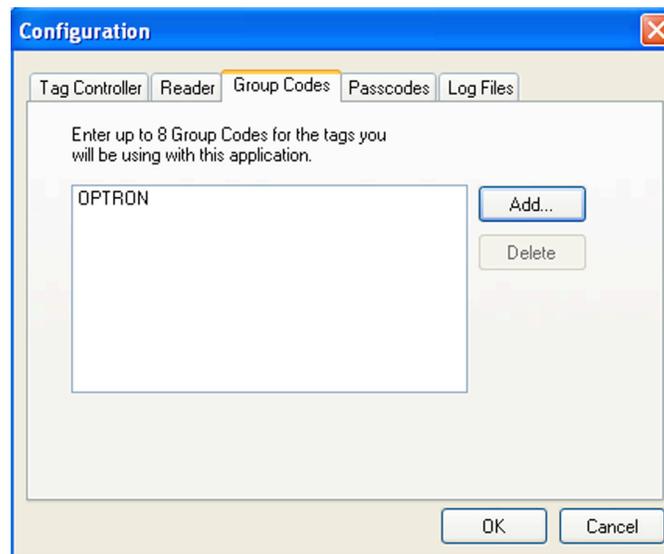
Figure 8: Zone Manager Selection in Reader Tab



Group Codes

In this configuration option, the group codes that will be used with the Tag Controller Utility may be entered. In reader-assisted mode, the Tag Controller Utility will tell the configured reader to listen for tag beacons that belong to the group codes entered in this list. To add a group code, click the **Add** button and type in the group code for the tags and click **OK**. To delete a group code from the list, select the group code and click the **Delete** button.

Figure 9: Group Codes Tab

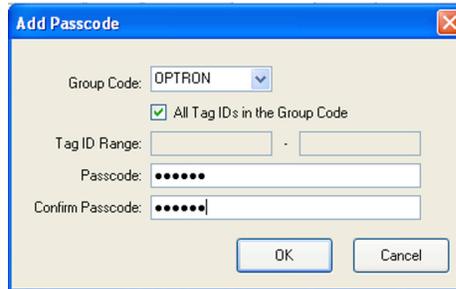


Passcodes

In this configuration option, the passcodes for tags that will be used with the Tag Controller Utility may be entered. Passcodes are only required when putting tags into the Sleep state. A passcode should be treated similar to any other password. An unauthorized Tag Controller user could potentially put tags to sleep to bypass security or inventory systems that utilize RF Code technology if a passcode is not set. Setting a passcode and giving access only to authorized users will prevent this from happening. To enter a passcode, click the **Add** button. A window will appear where options may be selected for the passcode that will be assigned to a tag or group of tags. The Tag Controller Utility allows three types of passcode scenarios:

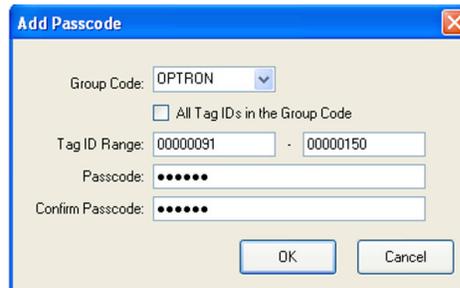
- **Global passcode** - A global passcode is a single passcode for every tag that has a particular group code. To add a global passcode, select a group code from the drop-down list, check the box that says **All Tag IDs in the Group Code**, enter and confirm the passcode and click the **OK** button.

Figure 10: Global Passcode Selection in Passcodes Tab



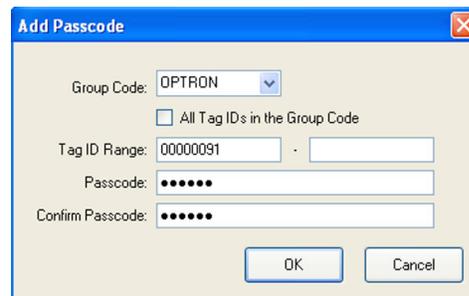
- **Range passcode** - A range passcode is a single passcode for a range of tags that has a particular group code. To add a range passcode, select a group code from the drop-down list, enter the range of tag IDs, enter and confirm the passcode and click the **OK** button.

Figure 11: Range Passcode Selection in Passcodes Tab



- **Individual passcode** - An individual passcode is a unique passcode for each individual Tag Controller-enabled tag. To add an individual passcode, select a group code from the drop-down list, enter the tag ID in the starting box of the **Tag ID's Range** field, enter and confirm the passcode and click the **OK** button.

Figure 12: Individual Passcode Selection in Passcodes Tab



Once the passcode settings have been configured they can be modified by selecting the tag or groups of tags and clicking on the **Modify** button. To delete a configured passcode for a tag or group of tags, select the tag and click the **Delete** button.

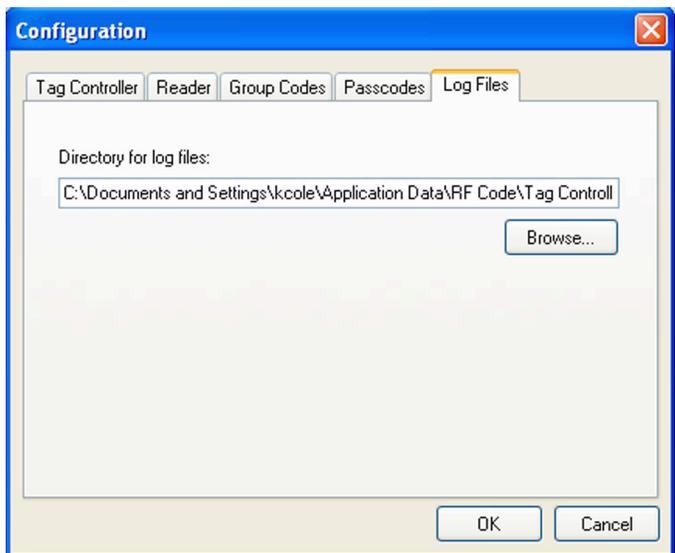


If configuring the passcodes for a large number of tags, the Tag Passcodes Import action can be utilized to perform a mass configuration of passcodes. Please see the [Passcodes File Import](#) section of this document for instructions.

Log Files

In this configuration option, a location to save the log files of the Tag Controller Utility should be determined. To select a location to record the log files, click the **Browse** button and browse to the desired location or create a new folder to store the log files.

Figure 13: Log Files Tab



Once configuration of the settings in the Tag Controller Utility program has been completed, click the **OK** button to save these settings, and close the Configuration window.

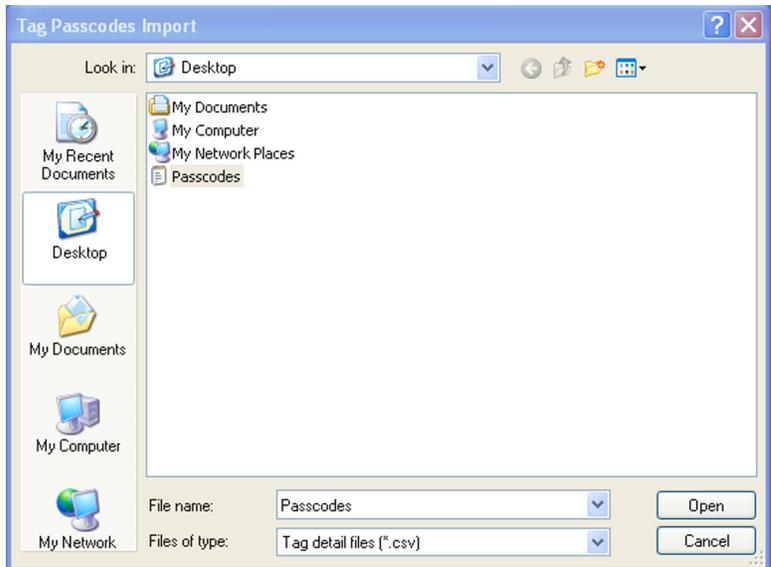
Passcode File Import

The Passcode File Import action available in this utility can be accessed by navigating to **Action>Passcode file import**. This action is used to perform a mass import of passcodes for a large number of tags. When accessed, this will produce a browser screen where you will need to navigate to the Tag Details file. This file will contain the groupcode, tag id, and passcode for all tags you wish to import, in a (CSV) file format, and can be imported to the Tag Controller Utility to perform a mass configuration of tag IDs and passcodes for Tag Controller-enabled tags. Once this file is located with the browser window, click **Open** and the Tag Controller Utility will import the file. A message will appear indicating the number of passcodes that have imported successfully.



Passcodes imported from a file will not be displayed on the Passcodes tab of the Configuration panel.

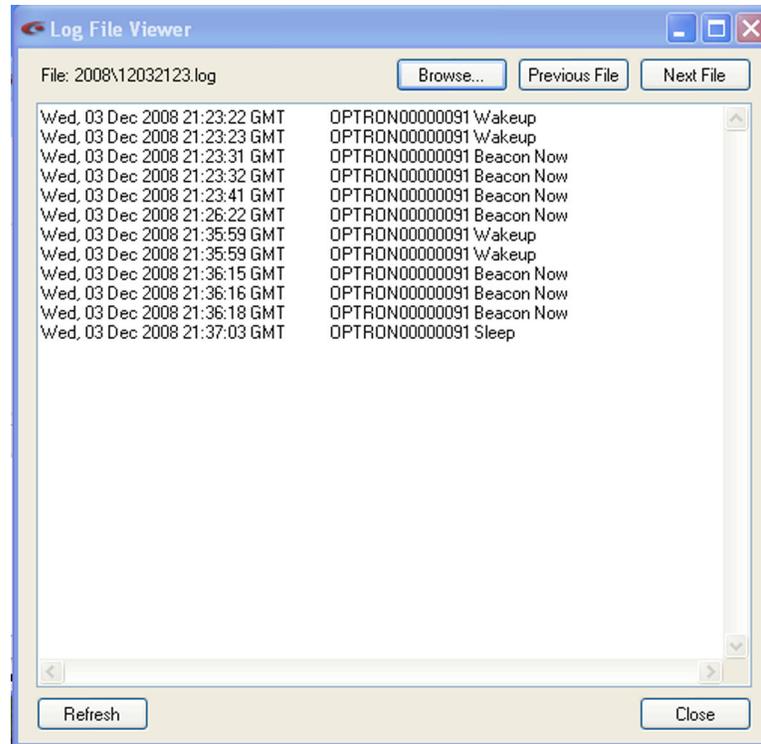
Figure 14: Tag Passcodes Import Feature



View Log File

The View Log File action can be accessed by navigating to **Action > View log file**. With this action various log files that are created when using the Tag Controller Utility can be viewed. The Tag Controller Utility will automatically display the most recent log file that was saved. To view other log files click the **Browse** button, select the file and click **Open**. Alternatively, the log files can be cycled through the by clicking on the **Previous File** or **Next File** buttons.

Figure 15: View Log Files Action



Using the Tag Controller to Alter Tag Status

Once the Tag Controller Utility has been configured with various tag information the user will utilize the Tag Controller and Tag Controller Utility to put the tags into one of the three various status types.

The user will need to choose one of two methods of discovery for tags, the Reader-Assisted method or the Manual Entry method. The reader-assisted method can only be used if the user has followed the configuration steps above. The reader-assisted method will communicate with a fixed or mobile reader or Zone Manager to reduce user input and make the flow of data more automatic.

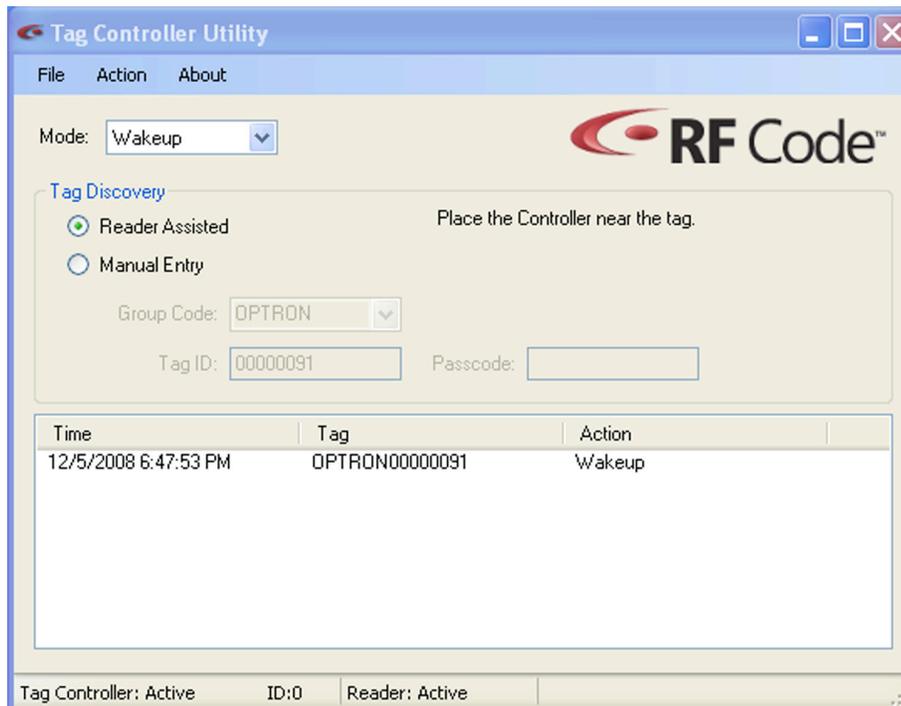
Reader-Assisted Method

To alter the status of a tag using the reader-assisted method, select **Reader Assisted** in the Tag Discovery section of the main application screen and select which mode to put the Tag Controller into:

- Wakeup - Will cause the tag to “wakeup” and begin regular beacon intervals.
- Beacon Now - Will cause the tag to immediately beacon.
- Sleep - Will cause the tag to go into a sleep state and will prevent the tag from beconing.

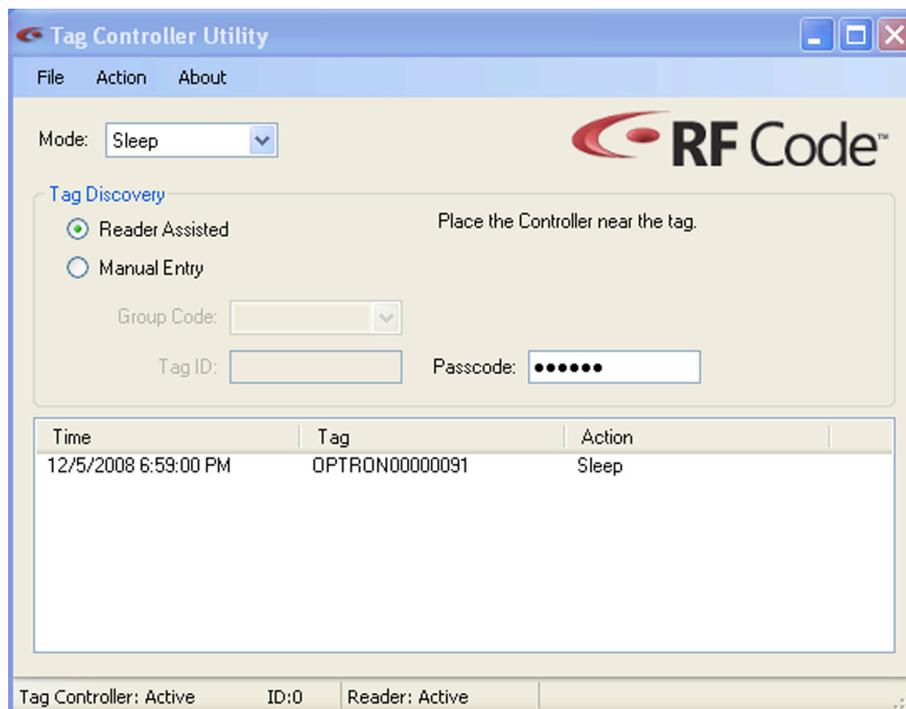
To make the tag wakeup or beacon now, select either the **Wakeup** or **Beacon Now** mode from the drop-down list and place the tag within a 1/8 inch proximity to the top edge of the Tag Controller. This placement is indicated by the directional arrows and the word “Tag” on the label of the Tag Controller. This will make the tag “wakeup” or “beacon now”. This will be indicated by an audible beep (if enabled under the configuration options) an event will be entered in the log window on the main screen.

Figure 16: Wakeup State of a Tag Using Reader Assisted Method



To put the tag to sleep, the user needs to select the Sleep mode from the drop-down list and place the tag within a 1/8 inch proximity to the top edge of the Tag Controller. Additionally, enter the passcode for the tag and depress the mode button on the center of the Tag Controller while the Tag Controller is within 1/8 inch proximity of the tag. This will put the tag to “sleep” and will be indicated by an audible beep (if enabled under the configuration options) and will show on the main log screen. If an event is not logged, the most likely causes of failure are an incorrect passcode, or the tag does not support Tag Controller events. Verify with the  logo on the label of the tag.

Figure 17: Sleep State of a Tag Using Reader Assisted Method



Manual Entry Method

The manual entry method will only log events when the tags are being put into the sleep state. It is possible to tell the tags to “beacon now” and “wakeup” using the manual entry method, but these events will not be logged by the Tag Controller Utility. To put the tag to sleep using the manual entry method, select the Sleep mode from the drop-down list and place the tag within a 1/8 inch proximity of the top edge of the Tag Controller. Additionally, select the group code of the tag from the drop-down list, enter the tag ID and the passcode for the tag, and depress the mode button on the center of the Tag Controller while the Tag Controller is in the 1/8 inch proximity of the tag. This will put the tag to “sleep” and will be indicated by an audible beep (if enabled under the configuration options) and will show on the main log screen.

Figure 18: Sleep State of a Tag Using Manual Entry Method



Stand-Alone Operation

The Tag Controller can also be used in a stand-alone mode without the aid of the utility software. However, in stand-alone mode, the Tag Controller can only tell the tags to “beacon now” and “wakeup”. To put tags to sleep the Tag Controller Utility must be used. To use the Tag Controller in stand-alone mode, ensure that the Tag Controller Utility application is closed and not running on the computer that the tag controller is plugged into. When the Tag Controller is ready to be used in the stand-alone mode, the **Program** LED on the Tag Controller will not be illuminated. Press the **Mode** button on the Tag Controller to cycle through the modes and select either **Wake** or **Beacon**. The appropriate LED will illuminate on the Tag Controller (Figure 19). When there isn't a mode selected, only the **Power** LED is illuminated. Place the tag within a 1/8 inch proximity to the top edge of the Tag Controller. This will send the indicated command to the tag and an audible beep will sound confirming the action. The beep may sound several times if the Tag Controller is held near the tag for an extended period of time. This is normal and acceptable if the tag receives either the “Beacon” or “Wake” commands multiple times in succession and will not cause unintended behavior.



The A600 Tag Controller can also be used in stand-alone mode by plugging it into a power supply with a standard 5V USB output port.

Figure 19: Tag Controller Used in Stand-Alone Operation



Data Flow Diagrams

Below are three diagrams that indicate the flow of data from the Tag Controller-Enabled Tag to the Tag Controller and/or Reader and Utility software.

Figure 20: Data Flow using Reader-Assisted Method

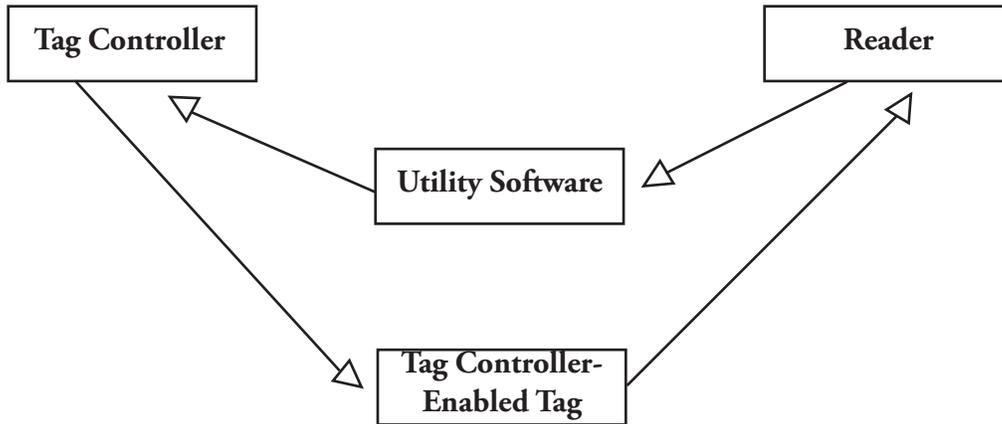


Figure 21: Data Flow using Manual Entry Method

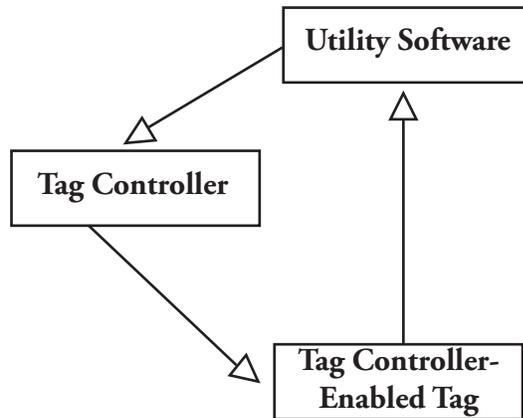
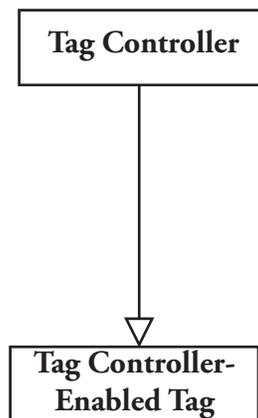


Figure 22: Data Flow using Stand-Alone Mode



Upgrading

To upgrade the A600 Tag Controller device firmware, ensure that your A600 Tag Controller is connected through the USB port. Once connected, navigate to **Action > Configuration**. Click on the **Tag Controller** tab, if your Tag Controller is connected properly you will see an **Upgrade** button.

Figure 23: Tag Controller Tab



Click the Upgrade button and a panel will appear. Choose to start the upgrade by clicking the Start button or to cancel by clicking the Cancel button.

Figure 24: Start Upgrade



The upgrade process will begin. When the process is finished you will receive a message indicating the upgrade is complete.

Figure 25: Upgrade Complete



You may already have the most current version of the device firmware installed on your device. If this is the case, you will receive a message indicating that your device does not need to be upgraded when you attempt to upgrade.



Do not disconnect the device during the upgrade process. Doing so will cause problems with your device and will prevent the device firmware from upgrading properly.



In rare instances, users may need to downgrade an A600 Tag Controller's firmware. If you need to downgrade the firmware of your device please contact the RF Code support line at support@rfcode.com, 512.439.2244 or toll free at 866.830.4578.

Environmental Limits

The A600 Tag Controller unit is approved for use within the ranges set forth below.

- Operating Temperature: -20° C to +45° C
- Storage Temperature: -20° C to +60° C
- Operating Humidity: 10% to 90% non-condensing
- Input: 5V regulated at +/- 10% at 200mA

Limited Standard Warranty Terms

RF Code warrants its products to be free from defects in materials and workmanship for a period of 1 year (12 months) for hardware and software from the date of purchase from RF Code. Its obligation under this warranty is limited to repairing or replacing, at its own sole option, any such defective products. This warranty does not apply to equipment that has been damaged by accident, negligence, or misapplication or has been altered or modified in any way. This warranty applies only to the original purchaser (end-user) and is not transferable.

Standard Warranty Limitations

Except as provided herein, the entire liability of RF Code and its suppliers under this limited warranty will be that RF Code will use reasonable efforts to repair or replace, without charge, all defective Products returned to RF Code by Customer, all as more particularly described in the End User Warranty. Except for the express warranties STATED HEREIN, RF Code makes no other representations or warranties and RF Code hereby disclaims, all other warranties, express, implied, statutory, or otherwise, including without limitation, any warranty of merchantability, non-infringement of third party intellectual property rights, fitness for a particular purpose, performance, satisfactory quality, or arising from a course of dealing, usage or trade practice.

Obtaining Service & Support

For in-warranty service, customers have several options. Customers having difficulty with RF Code products should attempt to solve those problems through RF Code's Technical Support Problem Escalation Process:

First, contact the RF Code representative or other distributor from whom the RF Code product was purchased for information on how to obtain local support.

Second, contact the RF Code Customer Support via e-mail.

Third, contact the RF Code Customer Support via the Support Line.

For product returns, the support engineer will give you a return material authorization (RMA) number. No returns will be accepted without an RMA number. If the warranty expired, there is a charge for repair or replacement per RF Code's out-of-warranty policy. For full details of the RF Code RMA policy, please review the "RF Code Warranty, RMA, and Extended Warranty Policy" document.

RF Code Customer Support

RF Code Customer Support gives entitled customers and partners the ability to contact RF Code about installation and usage-related questions as well as make defect inquiries about eligible products that are covered under RF Code warranty agreements. A team of technical specialists can be contacted electronically or via phone.

The Support Line is available to provide General Support during normal business hours: Monday through Friday, 8:00am to 5:00pm Central time, excluding national holidays.

E-mail: support@rfcode.com

Support form: <http://www.rfcode.com>

Voice: 512.439.2244 or toll-free at 866.830.4578

