Zone Manager Example Deployment Guide

Introduction

The purpose of this Example Deployment Guide is to assist you in installing the Zone Manager server and to provide an example configuration that will enable the Zone Manager to display real-time information from your tagged assets. Following the setup steps outlined in this document, you will be able to establish network communication with RF Code Readers to configure settings and to receive continuous tag information.

Zone Manager provides two interfaces that allow users to issue configuration and update commands to the Zone Manager server. The commands issued to the Zone Manager are performed over a telnet session or over HTTP request. Zone Manager also provides a URL that is used to import configuration files to the server. The configuration files can be used for restoring configuration data or for performing a mass configuration for multiple readers.

This example configuration will use the import URL and HTTP commands that will be issued from a browser. A set of four files are included on the Zone Manager CD that will require some modification to setup the example configuration with your readers. Although telnet style commands will not be used in this document, both HTTP and telnet interfaces implement the equivalent set of commands. Please refer to the Zone Manager User Manual and API documents for detailed instructions on using the Zone Manager software and API commands.



Zone Manager uses port 6501 for the command-response interface and Note port 6502 for the tag change events interface for telnet sessions. The HTTP communications are performed on port 6580.

The setup of Zone Manager will require:

- 1) Installation of the Zone Manager software.
- 2) Input of Zone Manager License Key.
- 3) Configuration of reader network and security settings.
- 4) Creation of Zone Manager configuration import files.
- 5) Importing of the configuration files.
- 6) Browsing to the active Zone Manager Server.
- 7) Configuration of Zone Manager.



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Install the Zone Manager Software

Requirements

Zone Manager Server:

- Pentium Dual-Core or Athlon-Class Processor
- 1GB RAM
- 300MB Free Disk Space
- · Windows XP, Service Pack 2 or Windows Vista, or RedHat Enterprise Linux 5, or Fedora 8



Administrator access on Windows or root access on **Note** Linux is required for installation.

Zone Manager Client:

- Internet Explorer 6, 7
- Firefox 1.5, 2

Linux Installation

Locate the RPM file on the Zone Manager software CD in the \install\linux directory and execute the following command:

rpm-ivh rfcode-zonemgr-<version-buildID>.noarch.rpm

Windows Installation

Locate and run the setup.exe installation program on the Zone Manager CD in the \install\windows directory. Follow the wizard prompts to complete installation.





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After the Zone Manager installation is completed the Zone Manager server will automatically start. You can verify that it is running by accessing it with a browser using URL:

http://<hostname>:6580/rfcode_zonemgr/

Where <hostname> is the IP address of the Zone Manager server. Use localhost:6580 if the browser is running on the same server as the Zone Manager. All browser communication is over port 6580. The Summary panel will display the Zone Manager version, build and license information.

Note There will be NO reader or tag information displayed until the Zone Manager is configured.

The Zone Manager server is installed with a five reader license. If you have purchased additional license keys you can add them to enable the Zone Manager to communicate with more than five readers. Additional licenses can be purchased by contacting your RF Code Authorized Reseller or Sales Representative or by emailing sales@rfcode.com.

To input the Zone Manager license key use the following URL command:

http://<hostname>:6580/rfcode_zonemgr/ zonemgr/api/licenseadd?key0=AAAA-BBBB-CCCC-DDDD

where AAAA-BBBB-CCCC-DDDD is the license key to install on your server. The summary panel will indicate the addition of the license key.



Configure RF Code Readers

At this point, the Zone Manager software should be enabled to communicate with the RF Code Readers. You can now access the Reader Configuration Utility (RCU) to configure the IP address and security of the readers that can be added to Zone Manager. The RCU is located on the Reader Utilities CD or it can be downloaded from the RF Code support site at:

http://www.rfcode.com/support_downloads



Be sure to keep a list of Reader Type, IP address and Note login information for each reader that will be used by Zone Manager. This information will be required in the configuration files. Please refer to the ReaderConfigurationUtility_UserManual.pdf document for detailed instructions on using the RCU.

	RFCode Reader Configuration
	Update reader settings or firmware
	Reader Address: 10.1.18.104
	Network Security Firmware
	Current Payder: 10.1.19.104
	Security Settings
	Enable Login:
	User Id: userid
	Password: *******
RFCode Reader Configuration	Confirm Password: *******
Update reader settings or firmware	Analy California
Reader Address: 192.168.1.129	Apply Sectings
Network Security Firmware	
Network Settings	-
Dynamic IP Address	
Scale IP Address	
IP Address:	
IP Subnet Mask:	Close Sack Finish
IP Gateway Address:	
Advanced Network Settings	
Keep Alive Requests: 2 🔅	
Keep Alive Timeout (ms): 1,000 0	
Network Timeout (ms): 500 0	
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Create Zone Manager Configuration Files

There are four files that will be used to setup a general Zone Manager configuration. These files are in an Excel comma separated format (.csv extension). Although these files can be updated by any editor, Excel is the preferred application to use for editing these files. The four files used to setup the Zone Manager configuration example_config_groups.csv, example_config_readers.csv, example_ config_locations.csv and example_config_rules.csv - are located on the Zone Manager CD in the Samples directory.

This Zone Manager example configuration will enable Note only one RF Code reader. Multiple readers can be added at a later time.

To setup the Zone Manager configuration on your server:

» Copy each of the four configuration files from the CD to a system with network connectivity to the Zone Manager server.



Prior to importing these files to the Zone Man-**Note** ager server the example_config_groups.csv and example_config_readers.csv files will need to be updated with the specific configuration data of your reader.

»Open the example_config_groups.csv files and verify that your tags have one of the seven listed group codes in the example_config_groups.csv file. (Tag group codes are printed on the bottom left of each tag label. The group codes are six letters in length with all letters capitalized.) If your tags have a group code of RFCLOC, LOCATE, RFCRCK, RFCBDG, RCKDOR, RFCDOR, or TMPRCK then you do not need to update the example config groups.csv file.



If you have a tag with a different group code Note then open the example_config_groups.csv file and add a row including a unique name for the example_config_group.id column. In the group. type column, add a mantisTTS where TTS is your tag's treatment code and treatment sub code. Lastly, in the group.groupcode column enter the tag's group code.



	A	В	C	D	E	F	G
1	group.id	group.type	group.groupcode				
2	badge	mantis04A	RFCBDG				
3	rackdoor	mantis04C	RCKDOR				
4	rfcrck	mantis04A	RFCRCK				
5	temp	mantis04D	TMPRCK				
6	irtag	mantis04A	RFCLOC				
7	locate	mantis04A	LOCATE				
8	roomdoor	mantis04C	RFCDOR				
9							

Next open the example_config_readers.csv file and edit the following data for the first reader listed READER_01:

- »Change the reader.type entry if your reader is a R200, J200, or D200.
- » Update the reader.hostname entry with the IP address of the reader configured in Part 3.
- » Update the reader.userid and reader.password entries if the readers were configured with login accounts, leave entry fields blank if none were used.
- »If you added your tags group information to the groups.csv file then add the new unique group.id to the reader.groups column list.

»All other table entries can remain the same.

	A	В	С	D	E	F	G
1	reader.id	reader.type	reader.hostname	reader.userid	reader.password	reader.enabled	reader.groups
2	READER_01	M200	192.168.1.129			TRUE	rackdoor,rfcrck,badge,temp,irtag,locate,roomdoor
3							
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For this example, the example_config_locations.csv and Note example_config_rules.csv files do not need to be updated but are used in this example configuration. These files will require alteration for setup with the Mass Configuration Import explained in Step 5.

The example_config_locations.csv file is used to configure specific location information (such as regional area, row location, rack number, etc.).

The example_config_readers.csv file is used to configure the reader channel SSI rule.

For more information regarding the use of these files as part of the Zone Manager configuration please refer to the Zone Manager User Manual or API doccuments.

All four of the configuration files are now ready to be imported to the Zone Manager server.



5 Import the Mass Configuration files

1. Now the configuration files are complete, open a browser to the Zone Manager configuration panel to import data URL:

http://<hostname>:6580/rfcode_zonemgr/zonemgr/cfgimport

This Zone Manager page will import the configuration files to the server. To complete the configuration, perform the following steps:



L It is important to import the files in proper order to **Note** configure the server correctly.

2. Browse to the folder where the files have been copied and select the example_config_groups.csv file, then click send. The following output should be displayed:

<done>: Group badge created <done>: Group door created...

Check to make sure that the data output matches your csv file data.

3. Click the browser BACK button to go back to the configuration panel. Browse to the folder where the files have been copied and select the example_config_readers.csv file, then click send. The following output should be displayed:

<done>: Created reader M001

<done>: Set port=6500 on reader READER_01...

Check to make sure that the data output matches your csv file data.



4. Click the browser **BACK** button to go back to the configuration panel. Browse to the folder where the files have been copied and select the example_config_locations.csv file, then click send. The following output should be displayed:

<done>: Created location RFCode

<done>: Set State=TX on location RFCode...

Check to make sure that the data output matches your csv file data.

5. Click the browser **BACK** button to go back to the configuration panel. Browse to the folder where the files have been copied and select the example_config_rules.csv file, then click send. The following output should be displayed:

<done>: Created rule rule01 <done>: Activated rule rule 01...

Check to make sure that the data output matches your csv file data.

Upon completion of these steps Zone Manager will be configured and communicating with the RF Code reader.



Access tag data from the Zone Manager Status Page Open a browser to the Zone Manager URL:

http://<hostname>:6580/rfcode_zonemgr/

From the Location tab in the Location Tree panel, expand the entire tree and select the Austin_Site location. You should see one or more of your tags displayed in this location. Locations Rack_01, Rack_02, and Rack_03 will not display tags since they are not currently configured with rules assigned to them. The Unassigned location will contain any tags that have a signal strength level weaker than what is specified by the example_config_rules.csv file.. If no tags are found verify that your reader is connected by checking the reader status under the Readers tab, it should report ACTIVE.

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Cotting Started Statest Headland									
Getting Started by Latest requires		_							
Code [®]		Zone	Manager						
Locations Readers Tags Tag Find	Users Location Rules	Summary Help							
Location Tree «	Tag	Location	Door	Temperature	Temper	Motion	Panic		
5 E	RFCBDG00000603	Austin_Ste			No	No	No	^	
B Code	RFCBDG00000607	Austin_Site			No	No	No		
B Austin_Data_Center	RFCBDG00000608	Austin_Site			No	No	No		
	RFCBDG00000943	Austin_Site			No	No	No		
Rack_01	RFCBDG00000944	Austin_Site			No	No	No		
E Rack_02	RFCBDG00000945	Austin_Site			No	No	No	E	
Cone_01	RFCBDG00000961	Austin_Site			No	No	No		
Participate	RFCBDG00000962	Austin_Site			No	No	No		
B Callas Data Center	RFCBDG00001014	Austin_Site			No	No	No		
	RFCBDG00001018	Austin_Site			No	No	No		
Rack_03	RFC8DG00001019	Austin_Site			No	No	No		
E Unassigned	RFCBDG00001020	Austin_Site			No	No	No		
	RFCBDG00001021	Austin_Site			No	No	No		
	RFCBDG00001033	Austin Site			No	No	No		
	RFCBDG00001034	Austin Site			No	No	No		
	RECEDG00001035	Austin Site			No	No	No		
	RECEDG00001095	Austin Ste			No	No	No		
	RECEDG00001170	austin Site			No	No	No		
	RECEDG00001222	Austin_Ste			No	No	No		
	RFCBD00001272	Austin_Sec			No	Ne	No		
	RFC8060001275	Austin_axe			NO	No	No		
	RFCEDG00001275	Austin_ate			NO	NO	Nu		
	RFCBDG00001270	Austin_oxe	A		NO	NO	Nu		
	RCKDORODODODIS	Austin_Ste	Open		No	INO			
	RCKDOR0000019	Austin_ste	Open		No	No			
	RCKDOR0000024	Austin_ste	Closed		No	No			
	RCKDOR0000025	Austin_ste	Open		No	No			
	RCKDON0000026	Austin_Site	Open		No	No			
	RCKDORUUUUU29	Austin_Site	Open		No	No			
	RCKDOR0000031	Austin_Ste	Open		No	No			
	RCKDOR0000032	Austin_Site	Open		No	No		~	
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Please note that this interface is for **"view only"** access of Zone Manager tag data. The Zone Manager software must be configured using the **command line interface**. Information about using the command line interface is available in the Zone Manager API Specification document.



This deployment example covers configuring the Zone Manager server using example configuration files provided for convenience in the initial setup. This configuration setup and any changes can be performed using the individual commands as explained in the Zone Manager User Guide and API documentation.

To return the Zone Manager server to an "unconfigured state" you can remove the configuration setup data by using the delete commands associated with groups, readers, locations and rules. For example the groupdelete command will remove the configuration data on the server that was imported from the groups.csv file. To completely restore the server to the "unconfigured state" perform all four delete commands (groupdelete, readersdelete, locationsdelete, and rulesdelete).



To update the configuration of the Zone Manager server, you Note need only to update the csv files you have created and reimport them. The files do not need to be created again from scratch if you add more readers/racks to your application.



For More Information

User Manuals http://www.rfcode.com/support_downloads

Data Sheets http://www.rfcode.com/library

Technical Support http://www.rfcode.com/support

Frequently Asked Questions http://www.rfcode.com/support_faq



