



User Manual

Print Date:
January 25, 2013

MOBILTEX® DATA LTD. Calgary, Alberta corView.corTalk.com	TITLE: corView User Manual		
	DOCUMENT NO.: CORVIEW-MAN-001	SHEET: 1 of 58	REV: 1.22

RESTRICTED PROPRIETARY INFORMATION

This information disclosed herein is the exclusive property of Mobiltex Data Ltd. and is not to be disclosed without the written consent of Mobiltex Data Ltd. No part of this publication may be reproduced or transmitted in any form or by any means including electronic storage, reproduction, execution or transmission without the prior written consent of Mobiltex Data Ltd. The recipient of this document by its retention and use, agrees to respect the security status of the information contained herein.

This document is intended for limited circulation.

The information contained in this document is subject to change without notice and should not be construed as a commitment by Mobiltex Data Ltd. unless such commitment is expressly given in a covering document. Mobiltex and corTalk are registered trademarks of Mobiltex Data Ltd.

© Copyright Mobiltex Data Ltd. (2012). All rights reserved.

Table of Contents

1	Overview	6
1.1	Dates and Times	6
1.2	Display and Email Time Zones	6
1.3	Email Address lists	7
1.4	Navigating the Data Tables	7
1.4.1	Filtering Commands	7
1.4.2	Sorting Commands	7
1.4.3	Reordering Columns	7
1.4.4	Changing the Page Size	7
1.4.5	Navigating Table Pages	8
1.4.6	Exporting Tables	8
1.4.7	Exporting Custom Column Reports	8
2	Accessing corView	10
2.1	Logging In	10
2.2	Logging in through a Secure Connection (https)	10
2.3	Logging Out	11
2.4	Retrieving Lost Passwords	11
3	Readings	12
3.1	Filtering Readings	13
3.1.1	Viewing Only the Last Scheduled Readings	13
3.2	Exporting Readings	13
3.3	Filtering Readings Columns	14
3.3.1	Shared Readings Columns	14
3.3.2	Rectifier Readings Columns	17
3.3.3	Bond Point Readings Columns	19
3.3.4	Test Point Readings Columns	20
4	GPS Mapping Pages	21
4.1	Mapping Features and Navigation	23
4.2	Filtering Sites	24

MOBILTEX® DATA LTD. Calgary, Alberta corView.corTalk.com	TITLE: corView User Manual		
	DOCUMENT NO.: CORVIEW-MAN-001	SHEET: 2 of 58	REV: 1.22

4.3	Adjusting Site GPS Offset.....	24
5	RMU3/5 Control page.....	25
5.1	Interruption Groups.....	25
5.1.1	Creating New Interruption Groups.....	26
5.1.2	Editing and Managing Interruption Groups.....	26
5.2	Sending RMU3 and RMU5 Commands.....	27
5.2.1	Request Data Reading.....	27
5.2.2	Request Instant Off.....	27
5.2.3	Rectifier On.....	27
5.2.4	Rectifier Off.....	27
5.2.5	Start Interrupting Now.....	27
5.2.6	Set Interruption Schedule.....	28
5.3	Recent RMU3/5 Commands Table.....	28
5.4	Recent RMU3/5 Readings Table.....	30
6	Reviewing RMU 3/5 Command History.....	31
6.1	Filtering Commands.....	31
6.2	Command History Columns.....	31
7	Account Setup.....	33
7.1	Company Setup.....	33
7.1.1	Editing Company Settings.....	33
7.1.2	Company Settings.....	33
7.2	Users.....	35
7.2.1	User Roles.....	35
7.2.2	Adding Users.....	36
7.2.3	Deleting Users.....	36
7.2.4	Editing User Settings.....	36
7.2.5	Changing User Passwords.....	36
7.2.6	User Settings.....	37
8	RMU Setup.....	39
8.1.1	Adding RMUs.....	39
8.1.2	Deleting RMUs.....	39
8.1.3	RMU Settings.....	39
8.2	Sites.....	39
8.2.1	Site List Page.....	39
8.2.2	Adding Sites.....	41
8.2.3	Deleting Sites.....	41
8.2.4	Editing Site Settings.....	42
8.2.5	Deactivating Sites.....	42
8.2.6	Sites Status Summary Page.....	42
8.3	Groups.....	45
8.3.1	Group Settings.....	45
8.3.2	Adding Groups.....	46
8.3.3	Deleting Groups.....	47
8.3.4	Editing Group Settings.....	47
8.3.5	Listing Groups.....	47
9	Help.....	48
10	Reports and Notifications.....	49

MOBILTEX® DATA LTD. Calgary, Alberta corView.corTalk.com	TITLE: corView User Manual		
	DOCUMENT NO.: CORVIEW-MAN-001	SHEET: 3 of 58	REV: 1.22

10.1	Report and Notification Times	49
10.2	RMU New Unit Notification	50
10.2.1	Sample RMU New Unit Email	50
10.3	RMU System Faults Report.....	50
10.3.1	Sample RMU System Faults Email	51
10.4	RMU Exception Report	51
10.4.1	Sample Power Up Exception Emails	52
10.4.2	Sample Exception Error Email	53
10.4.3	Sample Exception Clear Email	54
10.5	RMU Button Press Notification	55
10.5.1	Sample RMU Button Press Email.....	55
10.6	Archive Reading File Report.....	56
11	RMU Unit Types.....	57
11.1	RMU2	57
11.1.1	RMU2G (GSM Cellular)	57
11.1.2	RMU2S (Simplex Satellite)	57
11.2	RMU3	57
11.2.1	RMU3G (GSM Cellular)	57
11.2.2	RMU3S (Iridium Satellite)	57
11.3	RMU5	58
11.3.1	RMU5G (GSM Cellular)	58
11.3.2	RMU5I (IsatM2M satellite)	58
11.3.3	RMU5S (Iridium Satellite)	58

MOBILTEX® DATA LTD. Calgary, Alberta corView.corTalk.com	TITLE: corView User Manual		
	DOCUMENT NO.: CORVIEW-MAN-001	SHEET: 4 of 58	REV: 1.22

List of Figures

Figure 1 Readings Custom Export Popup.....	8
Figure 2 Readings Custom Export Popup with Template Selected.....	9
Figure 3: Log in Page.....	10
Figure 4: All Readings Page.....	12
Figure 5: GPS Mapping Page.....	21
Figure 6: RMU3/5 Control page.....	25
Figure 7 Interruption Groups Setup.....	26
Figure 8: RMU 3/5 Command History.....	31
Figure 9: Company Info Page.....	33
Figure 10: User Info Page.....	35
Figure 11: Site Summary Page Filtering.....	42
Figure 12: Site Summary.....	43
Figure 13: Site Summary Showing Issues.....	43
Figure 14 Group Setup Page.....	45

List of Tables

Table 1: Reading State.....	12
Table 2: RMU Status.....	16
Table 3: Battery Status.....	16
Table 4: Door Switch Status.....	16
Table 5: RSSI Status.....	17
Table 6: AC In Status.....	18
Table 7: RMU3/5 Rectifier Status.....	19
Table 8: GPS Mapping Icon Colors.....	22
Table 9: GPS Mapping Icon Popup Values.....	23
Table 10: RMU3/5 Command Status.....	29

MOBILTEX® DATA LTD. Calgary, Alberta corView.corTalk.com	TITLE: corView User Manual		
	DOCUMENT NO.: CORVIEW-MAN-001	SHEET: 5 of 58	REV: 1.22

1 Overview

CorView is a web interface used to monitor cathodic protection systems that use RMU2, RMU3, and RMU5 units. Readings are gathered in a secure server and stored for three years. Users can download all or a subset of their data as either a comma separated values (CSV) file or an MS Excel compatible XML file. Alarm reporting allows near real time notification via email to fixed computers and mobile devices.

Note: Currently Internet Explorer 6, 7, 8 and 9 are officially supported by Mobiltex although the site should work fine with most modern browsers.

Warning: Google has announced that [as of March 1, 2010, it will begin to phase out Google Maps support for Internet Explorer 6](#). All users are strongly advised to use newer versions of Internet Explorer for the best experience.

1.1 Dates and Times

All corView dates are displayed in the format “day-month-year” with the month being represented as by the first three letters of the month name as in “8-Oct-09”. All dates with times are displayed in the 24 hour format “day-month-year hour:minute” as in “21-Mar-09 19:31”.

1.2 Display and Email Time Zones

In order to make the reading times a little easier to understand, you can select from several different ways to view the times in corView. These are set up in the *User Information* and *Company Information* pages. Each user can use one of the following:

- your local time zone
- offset from Coordinated Universal Time (UTC) or
- your company settings

In order to make it easier to export data to other packages, you can also set corView to export reports from the readings page and emailed archive reports in UTC (independent of your viewing settings) or your local display time.

NOTE: Coordinated Universal Time (UTC) is a more accurate version of Greenwich Mean Time (GMT) and for most purposes, it can be considered to be equivalent.

MOBILTEX® DATA LTD. Calgary, Alberta corView.corTalk.com	TITLE: corView User Manual		
	DOCUMENT NO.: CORVIEW-MAN-001	SHEET: 6 of 58	REV: 1.22

1.3 Email Address lists

Email lists are used to select who gets any of the corView email notifications and reports. In all of these fields, you can enter multiple addresses by separating the addresses by semicolons (i.e. “Mark@yourCo.com; jim@ yourCo.com; rmu@ yourCo.com”).

When corTalk sends messages to the list, it will use user’s the time zones where possible as described above in the Display and Email Time Zones section.

NOTE: The only place that you cannot enter multiple emails is the user’s email setting which must contain one unique email. This email is used when a user requests their password and to find the time zone settings when sending notification and report emails. All other email fields allow a list of email addresses separated by semi-colons.

1.4 Navigating the Data Tables

Many of the pages use the same standard table to show you your data. Here is a quick overview of how those tables work.

1.4.1 Filtering Commands

You can filter columns by checking “Filter Columns” on most pages with a data table. This will bring up a filter text box at the top of each column. Once you enter a filter string, you must select a filter using the filter button to the right of the text box.

1.4.2 Sorting Commands

The tables may be sorted by clicking on the column header of the desired column. The sorted column header will display in a lighter blue than the other column headers with an arrow showing the order (ascending or descending) of the sort. Clicking on the sort column a second time will reverse the order of the sort.

1.4.3 Reordering Columns

You can reorder the columns by dragging them into the order that you want. This order is stored individually for each page. To restore the original column order, click “*Clear My Cookies*” on the “*User Information*” page.

NOTE: Reordering columns is only locally on the computer that you are currently on and is not part of your account. Reordering does not affect the order of the exported columns.

1.4.4 Changing the Page Size

You can change the number of rows in the table by selecting a page size from the dropdown at the top or bottom of the table. This information is kept locally on your computer. This does not affect the exported reports.

NOTE: Page size information is only stored locally on the computer that you are currently on and is not part of your account.

MOBILTEX® DATA LTD. Calgary, Alberta corView.corTalk.com	TITLE: corView User Manual		
	DOCUMENT NO.: CORVIEW-MAN-001	SHEET: 7 of 58	REV: 1.22

1.4.5 Navigating Table Pages

The tables display a selected number of rows per page. If there are more rows that meet the filter criteria, they can be accessed by using the navigation buttons in the blue bar at the top or bottom of the table.

- Page:** This textbox allows you to select the page number (from one to the total number of pages for the filter criteria) that you wish to see.
- First **: Displays the first page of command data
- Previous **: Display the page previous to the page currently displayed.
- Next **: Display the page after the page currently displayed.
- Last **: Display the last page of command data.

1.4.6 Exporting Tables

The current table data can be exported as either an XML file suitable for Microsoft Excel or comma separated values (CSV) file. Selected filter and sort criteria will be preserved in the exported data. To export a table, click the *Download Table to Excel* button to export the data to Excel or the *Export Table to CSV* button to export the data as a CSV file. The buttons are located below the commands table. Once clicked, both buttons give the option to open the file for view immediately or saving it to a user selected location with a user selected name.

NOTE: Files generated by the *Download Table to Excel* button may only be viewed using Microsoft Excel version 2003 or newer.

1.4.7 Exporting Custom Column Reports

On the readings pages, you can select to export a custom selection of columns by clicking the “Custom Export” button. This will bring up a window to create and manage your company wide custom report templates.

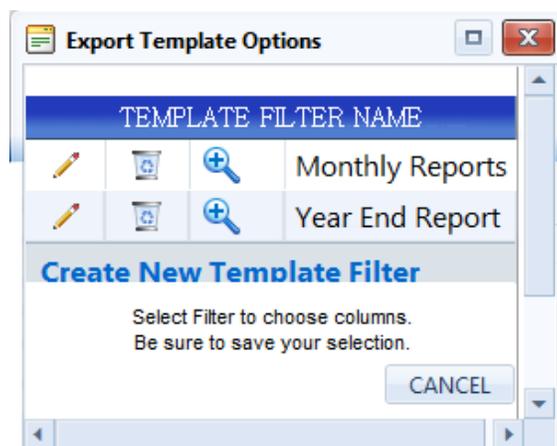


Figure 1 Readings Custom Export Popup

MOBILTEX® DATA LTD. Calgary, Alberta corView.corTalk.com	TITLE:	corView User Manual	
	DOCUMENT NO.: CORVIEW-MAN-001	SHEET: 8 of 58	REV: 1.22

 Edit the template name

 Delete the Template

 Select the template and change selected columns.

NOTE: You must click the “Save” button at the bottom of the column list in order to save your changes.

If you want to use an existing template, then click the template name (or magnifying glass) and then select “Export to Excel” or “Export to CSV” on the template pop-up

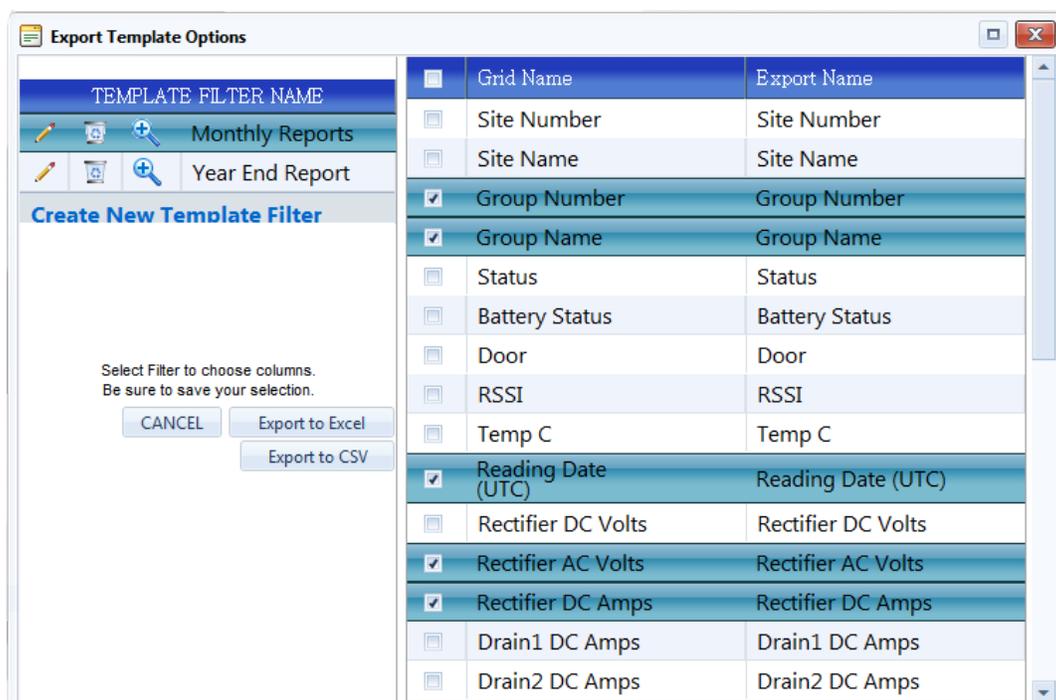


Figure 2 Readings Custom Export Popup with Template Selected

Once you have selected a template, a list of the template’s columns will appear in the right of the window. This list has two columns:

Grid Name This is the header name that you see in the current grid.

Export Name This is the header used in the exported report. In order to make the exported report compatible with the emailed archive reports, a standard set of headers is used for all emailed and exported reports.

MOBILTEX® DATA LTD. Calgary, Alberta corView.corTalk.com	TITLE: corView User Manual		
	DOCUMENT NO.: CORVIEW-MAN-001	SHEET: 9 of 58	REV: 1.22

2 Accessing corView

To keep your information secure, access to corView is restricted to people with valid user accounts. Additional company user accounts may be created by company administrators.

corView by **MOBILTEX** [Help](#)

Log In

User Name:

Password:

Forgot Your Password?

Enter your email address to receive your password.

User email address:

For more information, please contact [Mobiltex Sales](#)
For issues accessing your account, please contact [Customer Service](#)
Copyright ©2007 - ©2012 [Mobiltex Data Ltd®](#)

Figure 3: Log in Page

2.1 Logging In

To log in:

1. Go to <http://corView.corTalk.com>
2. Enter your assigned user name and password.
3. Click the *Log In* button.

2.2 Logging in through a Secure Connection (https)

Like your bank, you can log into corView using a secure connection to protect your data. Once logged in all data communication (except for certain mapping images) is done through a secure connection.

To log in through a secure connection:

1. Go to <https://corView.corTalk.com>

NOTE: To use a secure connection, use “https”, not the regular “http”).

2. Enter your assigned user name and password.
3. Click the *Log In* button.

MOBILTEX® DATA LTD. Calgary, Alberta corView.corTalk.com	TITLE: corView User Manual		
	DOCUMENT NO.: CORVIEW-MAN-001	SHEET: 10 of 58	REV: 1.22

2.3 Logging Out

To log out, click Logout in the main menu bar. After logging out, you will be re-directed to the *Log In* page to prevent other people from accessing your account.

NOTE: On a shared-user computer it is possible for other users to view your previously cached data, even after you have logged out of corView, by clicking the browser “back” button. It is therefore suggested that you close your browser after accessing corView to prevent this security issue.

2.4 Retrieving Lost Passwords

Lost passwords may be reset through the *Forgot Your Password?* section of the log in page. Enter your unique email address in the *User email address* text box, and you will be sent an email containing a URL to change your password. Your old password is still valid until you go to the URL and enter a new password.

NOTE: This URL is good for 24 hours only.

NOTE: If you have an email filter, please make sure that the address “RMU@corTalk.com” is allowed through so the message does not get caught in the email filter.

MOBILTEX® DATA LTD. Calgary, Alberta corView.corTalk.com	TITLE: corView User Manual		
	DOCUMENT NO.: CORVIEW-MAN-001	SHEET: 11 of 58	REV: 1.22

3 Readings

Readings are displayed on the readings page. When a readings page is first opened, it displays the readings for all sites sorted by date.

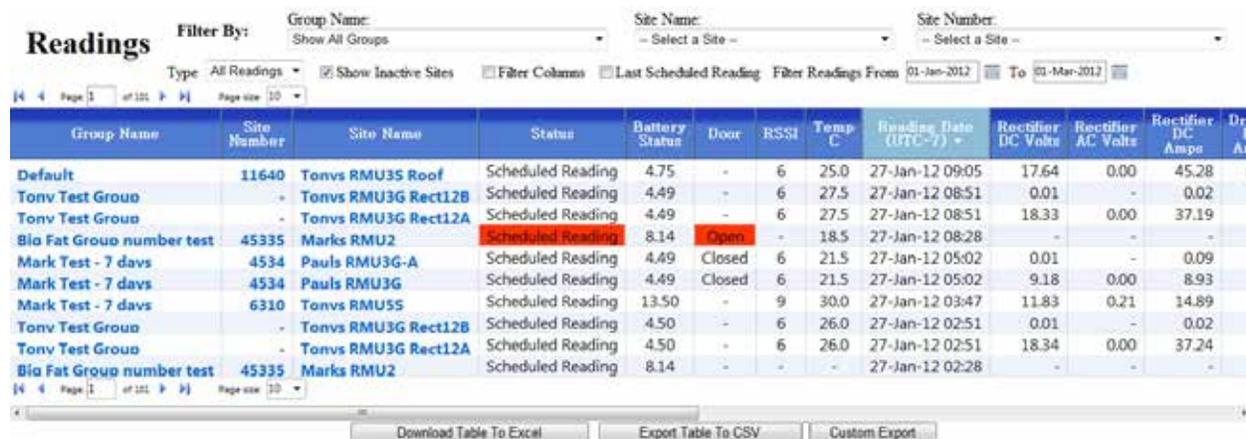


Figure 4: All Readings Page

RMU2 readings can have up to four different measurements, while RMU3 and RMU5 readings can have up to five different measurements. When a reading does not have a measurement for one of the displayed columns, it will show a dash (-) in the field for that column.

Each measurement field of a reading can have one of five states: normal, clear, alarm, over range or under range.

Normal	The reading is within the acceptable range.
Clear	The reading is currently normal but was previously in an alarm or over range state. As some readings are transmitted to corView in a bundle, it is possible to have more than one consecutive reading have the clear state. This reading will be highlighted in green.
Alarm	The reading is outside of the user configured acceptable range. This reading will be highlighted in red.
Over Range	The reading is over the RMU's positive analog input range. Consult the applicable RMU documentation for more information. This reading will be highlighted in red.
Under Range	The reading is under the RMU's negative analog input range. Consult the applicable RMU documentation for more information. This reading will be highlighted in red.

Table 1: Reading State

MOBILTEX® DATA LTD. Calgary, Alberta corView.corTalk.com	TITLE: corView User Manual		
	DOCUMENT NO.: CORVIEW-MAN-001	SHEET: 12 of 58	REV: 1.22

3.1 Filtering Readings

Located below the main menu is the *Filter By* menu which can be used to filter the readings displayed by group, site, site type, date, or site active status.

Selecting a group from the *Group Name* dropdown will show only readings for sites in that group.

Selecting a site from either the *Site Name* or *Site Number* dropdowns will show only readings for that site.

The “Type” dropdown allows you to see all readings or filter it to just your rectifiers, bond points or test points.

The *Show Inactive Sites* checkbox controls whether readings for deactivated sites are displayed. By default, deactivated sites are not displayed.

The *Filter Readings From/To* boxes control the date range of the readings displayed. By default, it displays the last month of information only. Clicking in either of the date boxes will open a calendar menu to select the desired date.

Readings may also be filtered to a specific group or site by clicking on a group name, site name or site number in the displayed table.

You can also filter individual columns by checking “Filter Columns”. This will bring up a filter text box at the top of each column. Once you enter a filter string, you must select a filter using the filter button to the right of the text box.

3.1.1 Viewing Only the Last Scheduled Readings

If you check the “Last Scheduled Reading” box, then only the last scheduled reading received (in the selected time period) from each site is shown.

3.2 Exporting Readings

The current dataset can be exported as either an XML file suitable for Microsoft Excel or comma separated values (CSV) file. See section 1.4.6 and 1.4.7 for more information on exporting readings.

NOTE: In a downloaded report or archive report:

- If the “Rectifier Line Volts” column is visible, it is broken into AC and DC columns to aid in any processing you may want to do.
- “Group Number” is only displayed if “Group Name” is also displayed.

MOBILTEX® DATA LTD. Calgary, Alberta corView.corTalk.com	TITLE: corView User Manual		
	DOCUMENT NO.: CORVIEW-MAN-001	SHEET: 13 of 58	REV: 1.22

3.3 Filtering Readings Columns

Some of the columns that appear on the readings pages are optional, while others are always shown. The optional columns are controlled on the *User Information* page by the following *Fields to Show* settings.

Shared Fields to Show: This controls the first columns that show up on all pages.

Rectifier Fields to Show: This controls what columns are shown on the Rectifiers page.

Bond Point Fields to Show: This controls what columns are shown on the *Bond Points* page.

Test Point Fields to Show: This controls what columns are shown on the *Test Points* page.

Any column that appears on one of the other three readings pages (*Rectifier*, *Bond Points* or *Test Points*) will also be shown on the *All Readings* page.

3.3.1 Shared Readings Columns

The following are a list of all shared readings columns:

Group Number: If the group name is enabled, then the group number will also be shown in downloaded and archive reports. This is used for export only.

Group Name: The group name for the site. Clicking this field in a display table will change the filter to only show readings from this group. This column is optional.

Site Number: The unique site number for the reading site. This is displayed as a dash (-) if the site number has not been configured from the default value of 0. Clicking this field in a display table will change the filter to only show readings from this site. This column is optional.

Site Name: The site name for the reading site. Clicking this field in a display table will change the filter to only show readings from this site.

Site Description: When you export the table, the Site Description field is added to the far right of the table. This field is a text description that is used for export only.

Status: The RMU's status at the time of the reading.

MOBILTEX® DATA LTD. Calgary, Alberta corView.corTalk.com	TITLE: corView User Manual		
	DOCUMENT NO.: CORVIEW-MAN-001	SHEET: 14 of 58	REV: 1.22

Clear Exception	The unit was in a state of alarm during the previous reading and is now clear. This reading will be highlighted in green.
Alarm Exception	One or more of the readings measurements is in an alarm state. This reading will be highlighted in red.
Overdue Unit	The readings transmission from the unit is overdue. A check is run to identify overdue units between 0600 and 0700 UTC. This reading will be highlighted in light purple. NOTE: A unit must have sent at least one regularly scheduled transmission before it can be marked as overdue. Usually, after a second missed transmission an email notification is sent but this can be adjusted as needed by Mobiltex.
New Unit	This is the first transmission from this unit at this site. This reading will be highlighted in bright blue.
Button Press	The <i>Test</i> button on the RMU was pressed. This applies only to RMU2 and RMU3 units. This reading will be highlighted in brown.
Test Transmission	A <i>test message transmission</i> was initiated by the user through the RMU5 configuration software. This applies only to RMU5 units. This reading will be highlighted in brown.
Scheduled Reading	A regularly scheduled transmission with no measurement alarms.
Scheduled Reading	A regularly scheduled transmission with one or more of the readings measurements in an alarm state. This reading will be highlighted in red.
Power Up	The unit was just powered up. This reading will be highlighted in light blue.
Start Interrupt	The RMU3 or RMU5 has begun an interruption schedule. This status applies only to interruption schedules set to start at a later date, not to those that are set to start immediately. This reading will be highlighted in a mid-shade of blue.
Stop Interrupt	The RMU3 or RMU5 interruption schedule has been completed. The rectifier is now on. This reading will be highlighted in a mid-shade of blue.
Interruption Schedule Set	The RMU3 or RMU5 received an interruption schedule message or interrupt on/off message. This reading will be highlighted in a mid-shade of blue.
Rectifier On	The rectifier was just turned on through the <i>RMU3/5 Control page</i> .

Rectifier Off	The rectifier was just turned off through the <i>RMU3/5 Control page</i> . This reading will be highlighted in a mid-shade of blue.
Request Response	This is in response to a data reading request placed through the <i>RMU3/5 Control page</i> .

Table 2: RMU Status

Battery Status: The status of the unit's battery at the time of the reading.

-	There is no reading for this entry. This is generally seen for the stored readings on RMU2 units as battery status is transmitted only for the current reading in the transmission bundle.
OK	The battery is good.
Warn	The battery power is getting low and should be checked or replaced soon. This reading will be highlighted in yellow.
Low	The battery is below the acceptable threshold. It should be checked or replaced as soon as possible. This reading will be highlighted in red.

Table 3: Battery Status

Door: The door status if the door switch option is enabled. This column is optional.

-	The door switch is not enabled.
Closed	The door is closed.
Closed	The door is now closed but was previously open. This reading will be highlighted in green.
Open	The door is open. This reading will be highlighted in red.

Table 4: Door Switch Status

RSSI: The RSSI readings ranging from zero to nine at the time of transmission when applicable. For RMU2 units, there is no RSSI measurement for readings stored for later transmission. In this instance a dash (-) will be displayed.

For Simplex Satellite units there is no RSSI reading and a dash (-) will be displayed.

This column is optional.

MOBILTEX® DATA LTD. Calgary, Alberta corView.corTalk.com	TITLE: corView User Manual		
	DOCUMENT NO.: CORVIEW-MAN-001	SHEET: 16 of 58	REV: 1.22

Regular	The RSSI value is good.
Warn	The RSSI is lower than expected, but still usable. This reading will be highlighted in yellow.
Low	The RSSI is below the acceptable low threshold so communications may be intermittent. This reading will be highlighted in red.

Table 5: RSSI Status

Temp: The temperature of the unit at the time of transmission. The three readings stored for later transmission on RMU2 units will not have temperature readings so a dash (-) will be displayed. To avoid confusion, all temperature readings will be displayed in either Celsius or Fahrenheit in accordance with the company settings. The setting for the temperature units is noted in the readings display header as either “Temp C” for Celsius or “Temp F” for Fahrenheit. This column is optional.

Reading Date: The date and time that the reading was taken. This reading is shown in the time zone selected in your user settings. The current offset will also be shown in the header. For example, you could see “Reading Date (UTC-6)”. If the time zone offset changed in the currently displayed readings, then it will show both offsets. This can happen when you change between daylight savings and regular time.

3.3.2 Rectifier Readings Columns

All rectifier columns can be enabled or disabled as needed. The following is a list of the default readings column headers specific to showing only the *Rectifiers* readings:

Rectifier DC Volts: The DC volts of the main rectifier output.

Rectifier AC Volts: The AC volts of the main rectifier output.

Rectifier DC Amps: The DC amps of the rectifier output.

Drain 1 DC Amps: The DC amps on drain 1.

Drain 2 DC Amps: The DC amps on drain 2.

Drain 3 DC Amps: The DC amps on drain 3.

P/S DC Volts: The DC pipe to soil potential.

P/S AC Volts: The AC pipe to soil potential.

P/S Instant Off: The DC volts of the pipe-to-soil at the instant the rectifier feeding the pipe is turned off.

Rect2 DC Volts: The DC volts of a second rectifier output. This allows the RMU to monitor two rectifiers at once.

MOBILTEX® DATA LTD. Calgary, Alberta corView.corTalk.com	TITLE: corView User Manual		
	DOCUMENT NO.: CORVIEW-MAN-001	SHEET: 17 of 58	REV: 1.22

Rect2 DC Amps: The DC amps of a second rectifier output. This allows the RMU to monitor two rectifiers at once.

AC Mitigation Amps: The AC current between two structures connected by a mitigation device. See the “RMU2 Installation and Configuration Guide” in the help section of corView for more information.

Line Volts: The supply voltage to the rectifier. Each reading will be marked as AC (line powered) or DC (TEG or solar), as needed. In exported and archive reports, this column is split into separate AC and DC columns.

AC In: The status of the AC sense line, if enabled, at the time of message transmission. The three readings stored for later transmission on RMU2G and RMU2S units will not have AC In readings so a dash (-) will be displayed. For more information on status conditions, please see the AC In Status table shown below.

-	The AC sense line is not enabled.
Yes	There is measurable coupled AC voltage on the line.
Yes	There is measurable coupled AC voltage on the line, but there was not at the time of the last reading. This reading will be highlighted in green.
No	There is no measurable coupled AC voltage on the line. This reading will be highlighted in red.

Table 6: AC In Status

RMU3/5 Rectifier Status: The status of the rectifier (and when possible, the relay) at the time of message transmission, for RMU3 and RMU5 sites only.

The text and background color tells the rectifier status. If the text is bold and all in capital letters, then the relay was also checked and in that case the text will be green if the relay is operating correctly or red if the relay failed testing.

On	The rectifier is on.
On	The rectifier is on but it was off at the time of the last reading. This reading will be highlighted in light green.
Off	The rectifier is off. This reading will be highlighted in light red.
Int	The rectifier is currently interrupting. This reading will be highlighted in light yellow.
INT	The rectifier is currently interrupting. This reading will be highlighted in light yellow. The text is green, bold and capitalized, meaning that the relay was checked and passed.
INT	The rectifier is currently interrupting. This reading will be highlighted in light yellow. The text is red, bold and capitalized, meaning that the relay was checked and failed.

Table 7: RMU3/5 Rectifier Status

3.3.3 Bond Point Readings Columns

All bond point columns can be enabled or disabled as needed. The following is a list of the default readings column headers specific to showing only the *Bond Points* readings:

Bond 1 DC Amps: Bond point 1 DC Amps.

Bond 2 DC Amps: Bond point 2 DC Amps.

Bond 3 DC Amps: Bond point 3 DC Amps.

Bond 4 DC Amps: Bond point 4 DC Amps.

P/S1 DC Volts: The DC pipe to soil potential for connection 1.

P/S1 AC Volts: The AC pipe to soil potential for connection 1.

P/S1 Instant Off: The DC pipe to soil potential for connection 1 at the instant the rectifier feeding the pipe is turned off.

P/S2 DC Volts: The DC pipe to soil potential for connection 2.

P/S2 AC Volts: The AC pipe to soil potential for connection 2.

P/S3 DC Volts: The DC pipe to soil potential for connection 3.

P/S4 DC Volts: The DC pipe to soil potential for connection 4.

AC Mitigation Amps: The AC current between two structures connected by a mitigation device. See the “RMU2 Installation and Configuration Guide” in the help section of corView for more information.

MOBILTEX® DATA LTD. Calgary, Alberta corView.corTalk.com	TITLE: corView User Manual		
	DOCUMENT NO.: CORVIEW-MAN-001	SHEET: 19 of 58	REV: 1.22

3.3.4 Test Point Readings Columns

All test point columns can be enabled or disabled as needed. The following is a list of the default readings column headers specific to showing only the *Test Points* readings:

P/S1 DC Volts: The DC pipe to soil potential for connection 1.

P/S1 AC Volts: The AC pipe to soil potential for connection 1.

P/S1 Instant Off: The DC pipe to soil potential for connection 1 at the instant the rectifier feeding the pipe is turned off.

P/S2 DC Volts: The DC pipe to soil potential for connection 2.

P/S2 AC Volts: The AC pipe to soil potential for connection 2.

P/S3 DC Volts: The DC pipe to soil potential for connection 3.

P/S4 DC Volts: The DC pipe to soil potential for connection 4.

MOBILTEX® DATA LTD. Calgary, Alberta corView.corTalk.com	TITLE: corView User Manual		
	DOCUMENT NO.: CORVIEW-MAN-001	SHEET: 20 of 58	REV: 1.22

4 GPS Mapping Pages

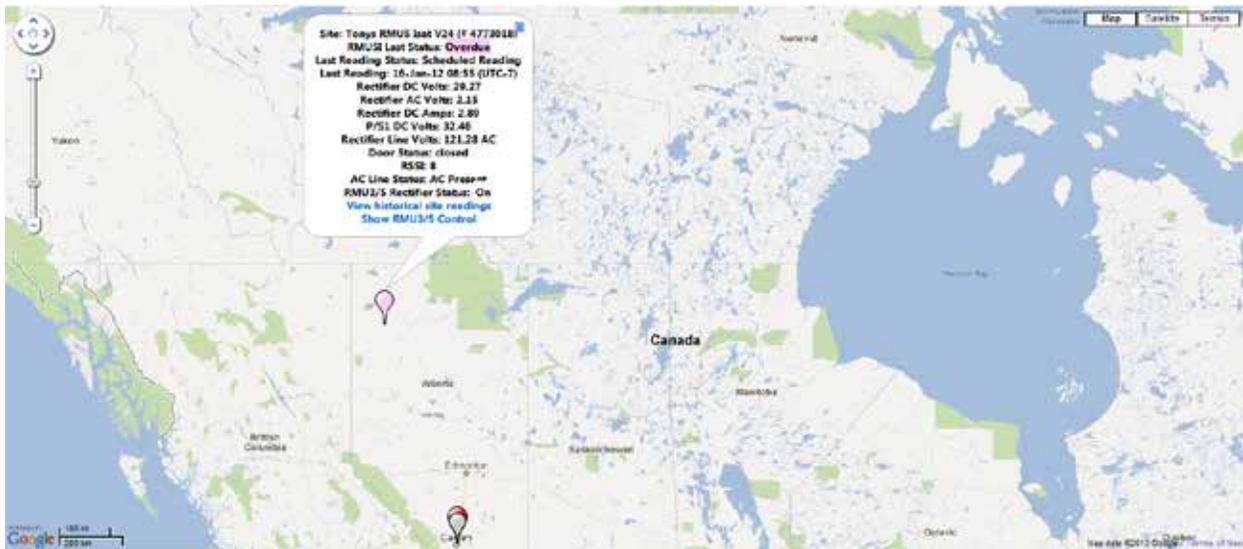


Figure 5: GPS Mapping Page

The GPS Mapping screen gives you a periodically updated overview of your sites or groups of sites on an easy to view map. This screen uses to the standard map controls such as zoom, pan and map/terrain view selection. The map function is available using the map list item below any of the readings pages in the corView menus. To get a map link in the site menus, hover your mouse over the menu item to select one of the readings table pages and a menu button for the mapping function associated with that group will appear. Left click on the map menu button to select the map display function.

As with the readings pages, you can select to filter the data by group name, site name or site number and to hide or show currently inactive sites.

NOTE: If you view any of the map pages through a secure connection (using “https” as opposed to using the normal “http”), you will get a warning that “This page contains both secure and non-secure items.” Click “Yes” to view the maps. This warning shows up because the map graphics are not sent through a secure connection. Do not be concerned because all data specific to your sites are still being sent through a secure connection.

MOBILTEX® DATA LTD. Calgary, Alberta corView.corTalk.com	TITLE: corView User Manual		
	DOCUMENT NO.: CORVIEW-MAN-001	SHEET: 21 of 58	REV: 1.22

The site icons are displayed in one of four colors, with the icons lower in the table displayed physically larger so that they are more obvious:

Normal
(smallest and lowest priority)

The site is operating normally. This reading will be highlighted in green.

Notification

This state overrides all other types. This site has no RMU associated with it, there are no readings available for the site or the site is deactivated. This reading will be highlighted in grey.

Overdue Unit

The site is overdue.

Interruption

The last reading from the RMU3 or RMU5 was either interrupting the rectifier or the rectifier interruption relay was in an off state. (RMU3 and RMU5 sites only) This reading will be highlighted in yellow.

Alarm

(largest and highest priority)

The site is in an alarm state. The causes of the alarm state include:

- Measurements out of limits
- Line AC not present (if enabled)
- Door open (if enabled)
- Unit overdue
- Warning or low battery condition
- Rectifier relay failed

This state overrides the interruption and normal states. This reading will be highlighted in red.

Table 8: GPS Mapping Icon Colors

Holding the mouse over the site icon will automatically display a popup box containing information about that site. Clicking the “X” in the upper right corner of the popup box or holding the mouse over a different site icon will remove the popup box. Left clicking the mouse on a blank area of the map will also close the popup box. Depending on the site setup and information currently available, the following information may be displayed.

Site Name	The site name and number (the site number only appears if “Site Number” is enabled in the user’s settings).
Last Status	The message status for the last message or site overdue condition from the unit. This line also starts with the unit type.
Last Reading	The date of the last reading or site overdue message (along with the current time offset that it is displayed with).
Last Readings	Any reading values and their status from the last reading.
Door Status	The last door status reading if enabled.
RSSI	The last RSSI reading for the unit where applicable.
AC Line Status	The last AC Line Status reading if enabled.
RMU3/5 Rectifier Status	The last RMU3 or RMU5 rectifier status reading if

MOBILTEX® DATA LTD. Calgary, Alberta corView.corTalk.com	TITLE: corView User Manual		
	DOCUMENT NO.: CORVIEW-MAN-001	SHEET: 22 of 58	REV: 1.22

available.

View Historical Site Readings

A link to view the historical readings for the site on the readings page.

Show RMU 3/5 Control

A link to view the RMU 3/5 control page for interruptible units.

Marker shown at GPS offset

Occasionally, the popup will say “Marker shown at GPS offset” on the bottom line. This is because in cases where several units are in almost the same position, there’s the ability to add an offset to them when they are displayed in a group in order to make it easier to differentiate between the units. The site offset can be changed on the “Setup\Adjust Site GPS Offset” page. The marker will not show up at the offset if it is the only unit being displayed.

Table 9: GPS Mapping Icon Popup Values

By default, when only one site is selected the map will be slightly zoomed out in order to make the location information more useful. Otherwise, the system will attempt to remember your last view type and zoom level where appropriate.

Depending on the zoom level, several sites may appear stacked in the same location. In most cases, these can be separated by increasing the zoom settings. Site icons to the left and towards the bottom of the page will always appear in front. The site icon size will be physically larger for more important status conditions such as alarm and notification states.

4.1 Mapping Features and Navigation

Here are a few tips to help navigate through the mapping pages.

- Double click on a site icon to center the map on that site.
- You can change the zoom level by clicking on the +/- tool bar in the upper left of the map or by clicking the mouse wheel and then using that to zoom in and out.
- To move the map, left click on the map and then move your mouse while holding the left button down. You can also use the direction wheel in the upper left of the map.
- You can disable auto zoom so that new units chosen will not re-center the map. This is useful when you are comparing and looking up various sites.
- To change the map view, click the map type in the upper right of the map. The map types are:

Map: This is a normal street map.

Satellite: This shows a satellite view of the selected area.

Terrain: This gives a topographical map view showing elevation changes.

MOBILTEX® DATA LTD. Calgary, Alberta corView.corTalk.com	TITLE: corView User Manual		
	DOCUMENT NO.: CORVIEW-MAN-001	SHEET: 23 of 58	REV: 1.22

NOTE: Different map types will allow different zoom levels based on available information for that location.

Where possible, corView will remember your map type on this computer and load that map type the next time that you return to the page. This will only work if the browser cookies are not deleted.

4.2 Filtering Sites

You can filter the sites by using the dropdowns at the top of the map to select a group or site.

If you check “Show Exceptions Only”, then the green site markers will be hidden and only sites that are red (exceptions), yellow (interrupting) or grey (inactive) will be shown.

Unchecking “Show Inactive Sites” will hide the inactive sites.

4.3 Adjusting Site GPS Offset

If you have two or more sites very close together, you can add a GPS offset in order to make them appear further apart on the GPS maps. This is done on the Adjust Site GPS Offset page (under Setup in the site menu). The offset will be added to the GPS position whenever you are displaying more than one site.

To change the site GPS offset on the Adjust Site GPS Offset page, drag and drop the site to the new position and click “Save Offset”. At any time, you can click “Clear Offset” to remove the site’s current offset.

NOTE: In order to prevent sites from being “lost” when they are moved to far, there is a limit to how far a site can be moved. If you move a site more than is allowed, you will get an error at the top of the page explaining what direction you are out of bounds.

MOBILTEX® DATA LTD. Calgary, Alberta corView.corTalk.com	TITLE: corView User Manual		
	DOCUMENT NO.: CORVIEW-MAN-001	SHEET: 24 of 58	REV: 1.22

5 RMU3/5 Control page

The *RMU3/5 Control page* allows basic commands to be sent to RMU3 and RMU5 units. It lists recent commands sent, readings and responses received. It can be accessed using the *RMU3/5 Control* link in the main menu which is visible only for users with *RMU5 User* access enabled (see the *User Information* page).

By default, the *RMU3/5 Control* page displays a list of commands sent, readings and responses received for all company RMU3 and RMU5 units over the last two hours. The filter menu located below the main corView menu bar can be used to show either a single RMU3 or RMU5 site or a group of RMU3 and RMU5 sites. RMU3 and RMU5 sites may be filtered by group name, site name, site number or the ESN of the assigned RMU. The *Show Data for Last* dropdown list changes the interval for which the most recent commands sent, readings and responses received are shown. When a single site is selected, the *RMU3/5 Control* page will show *Sending to Site* followed by the selected site name.

Figure 6: RMU3/5 Control page

5.1 Interruption Groups

Interruption Groups allow you to set up multiple interruption groups with overlapping sites. This is only used for interruption.

On the *RMU3/5 Control* page, the interruption groups are marked in the *Group Name* dropdown with the “ – Int” after the group name.

MOBILTEX® DATA LTD. Calgary, Alberta corView.corTalk.com	TITLE: corView User Manual		
	DOCUMENT NO.: CORVIEW-MAN-001	SHEET: 25 of 58	REV: 1.22

5.1.1 Creating New Interruption Groups

To create a new interruption group, go to the *Interruption Groups* page under *RMU3/5 Control* in the main menu

Click on *Create New Interruption Group* at the bottom of the table.

Enter the new Interruption Group name in the text box at the bottom of the table and press the “Enter” key to save.

You can now add units as described in section 5.1.2 on Editing and Managing Interruption Groups.

5.1.2 Editing and Managing Interruption Groups

To set up or edit the interruption groups go to the *Interruption Groups* page under *RMU3/5 Control* in the main menu

Click the name of the group that you want to manage.

You will get two tables similar to those shown below.

Interruption Group: Documentation

Site Number	Site Name -
<input type="checkbox"/>	+14844054590 - No RMU
<input type="checkbox"/>	+15703675072 - RMU2G
<input type="checkbox"/>	4534 Pauls RMU3G
<input type="checkbox"/>	8941 RMU5E Test - No RMU
<input type="checkbox"/>	testing create - No RMU
<input type="checkbox"/>	Tonys RMU3G Rect12A
<input type="checkbox"/>	Tonys RMU3G Rect12B
<input type="checkbox"/>	11640 Tonys RMU3S Roof
<input type="checkbox"/>	4773018 Tonys RMU5 Isat V24
<input type="checkbox"/>	6310 Tonys RMU5S

[Remove Checked Site\(s\)](#) [Back to Int Group List](#)

Available Sites
Check the sites you wish to add and drag them into the group on the left side
Rows in **GREEN** are already in the Interruption Group.

Site Number	Site Name -	Group Name
<input checked="" type="checkbox"/>	4534 Pauls RMU3G	Mark Test - 7 days
<input type="checkbox"/>	- Pauls RMU3G-A	Mark Test - 7 days
<input checked="" type="checkbox"/>	- Tonys RMU3G Rect12A	Tony Test Group
<input checked="" type="checkbox"/>	- Tonys RMU3G Rect12B	Tony Test Group
<input checked="" type="checkbox"/>	11640 Tonys RMU3S Roof	Default
<input checked="" type="checkbox"/>	4773018 Tonys RMU5 Isat V24	Big Fat Group number test
<input checked="" type="checkbox"/>	6310 Tonys RMU5S	Mark Test - 7 days

Add Checked Page: 1 of 1 Page size: 10

Figure 7 Interruption Groups Setup

The table on the left is the list of sites already in the group.

NOTE: Assigned sites with no RMU or that have been changed to an RMU2 will be highlighted in the list on the left. Only sites with a currently functioning RMU3 or RMU5 can be interrupted.

The table on the right is the list of all current RMU3 and RMU5 sites. Currently assigned units will appear highlighted in green.

To remove a site, click the checkbox on the left list and click *Removed Checked Site(s)*.

To add a site, click the checkbox in the *Available Sites* list on the right and click *Add Checked*.

MOBILTEX® DATA LTD. Calgary, Alberta corView.corTalk.com	TITLE: corView User Manual		
	DOCUMENT NO.: CORVIEW-MAN-001	SHEET: 26 of 58	REV: 1.22

5.2 Sending RMU3 and RMU5 Commands

To view the available commands, first select a site or group of sites (regular groups or interruption groups) to use from one of the dropdowns at the top of the page. Once you have selected where to send the commands, the various command option buttons will appear.

NOTE: To send commands to a group, you must click on the Yes button that appears with the Enable Group Commands prompt after you select a group.

NOTE: Use of the group command feature may result in additional airtime charges as it requires sending an individual command to each unit in the group.

5.2.1 Request Data Reading

The *request data reading* command asks the RMU3 or RMU5 to send the current data readings. This does not affect the routine reading schedule.

5.2.2 Request Instant Off

The *Request Instant Off* command asks the RMU3 or RMU5 to perform an instant off measurement on a pipe-to-soil channel. Only RMU3 and RMU5 devices set to a measurement type that includes pipe-to-soil measurements will return an instant off reading. Devices not configured to measure pipe-to-soil will return readings as though the *Request Data Reading* command discussed above.

5.2.3 Rectifier On

The *rectifier on* command will override any interruption schedule and immediately turn the rectifier on.

NOTE: This will overwrite any daily schedule.

5.2.4 Rectifier Off

The *rectifier off* command will override any interruption schedule and immediately turn the rectifier off.

NOTE: This will overwrite any daily schedule.

5.2.5 Start Interrupting Now

The *start interrupting now* command sends an interruption schedule that will start as soon as it is received. Once the schedule has completed, the rectifier will revert to the ON state. The parameters required are described below.

Hours to Interrupt: The length of time in hours for the interruption schedule to run. Possible values range from 1 to 65,535 hours.

Cycle Time (ms): The length of the interruption cycle in milliseconds. Possible values range from 2 to 60,000 milliseconds.

Off Time (ms): The length of time, in milliseconds during which the rectifier is turned off in an interruption cycle. Possible values range from 1 to 59,999 milliseconds.

MOBILTEX® DATA LTD. Calgary, Alberta corView.corTalk.com	TITLE: corView User Manual		
	DOCUMENT NO.: CORVIEW-MAN-001	SHEET: 27 of 58	REV: 1.22

Daily Repeat: The number of days to repeat this schedule. Select “No Repetition” to do the schedule once. If you set it for daily repetition, then each day it will start at the time that you sent the command.

5.2.6 Set Interruption Schedule

The *set interruption schedule* command sends an interruption schedule that will start interrupting at a future time. After the interruption schedule has completes, the rectifier will revert to the ON state. Sending a set interruption schedule command will override any previous schedule, including one currently in progress. The required parameters are described below.

Hours to Interrupt: The length of time in hours for the interruption schedule to run. Possible values range from 1 to 65,535 hours.

Cycle Time (ms): The length of the interruption cycle in milliseconds. Possible values range from 2 to 60,000 milliseconds.

Off Time (ms): The length of time, in milliseconds during which the rectifier is turned off in an interruption cycle. Possible values range from 1 to 59,999 milliseconds.

Daily Repeat: The number of days to repeat this schedule. Select “No Repetition” to do the schedule once.

Interruption Schedule Date: The date that the schedule will start. The UTC offset will be shown next to the edit box. This is the same time zone setting as you are usign on the readings page.

Interruption Schedule Time: The time of day that the schedule will start. The UTC offset will be shown next to the edit box. This is the same time zone setting as on the readings page.

NOTE: Entering a new schedule will overwrite any daily schedule.

5.3 Recent RMU3/5 Commands Table

The Recent RMU3/5 Commands table is located on the bottom left side of the *RMU3/5 Control page*. The data in the table is controlled by the *Show Data for the Last* dropdown which lists the commands sent within the selected time period. The data in the table is also controlled by the filtering menu at the top of the page which limits the dataset to the selected sites.

By default, the commands table shows all commands sent for all RMU3 and RMU5 sites in the company for the last two hours.

The table can be sorted by clicking on the column header of the of the column that you would like to sort by. The sorted column header of the sort term will display in a lighter blue than the other column headers with an arrow showing the order (ascending or descending) of the sort. Clicking the column header a second time on the sort column will reverse the order of the sort. A description of each column follows:

MOBILTEX® DATA LTD. Calgary, Alberta corView.corTalk.com	TITLE: corView User Manual		
	DOCUMENT NO.: CORVIEW-MAN-001	SHEET: 28 of 58	REV: 1.22

Site Name: The name of the site that the command was sent to. When a command is sent to a group, one entry will appear in the table for each site in the group. Clicking on this link will open the *All Readings* page for this site.

Group Name: The name of the group that the site belongs to.

Status: The current status of the command. This value will change as the command progresses through the system. Certain statuses are displayed with a colored background for easy notification of important conditions as shown in the RMU3/5 Command Status table below.

Queued	The message is in the queue waiting to be sent to the unit.
Sent, waiting for Gateway ACK	The command has been forward to the satellite system and corView is waiting for an acknowledgement message from the satellite system.
Sent, waiting for Command ACK	The satellite system is handling the message, and corView is waiting for an acknowledgement message from the unit.
Done: Received Command ACK	CorView received an acknowledgement message from the unit. This reading will be highlighted in green.
Done: Timeout waiting for Gateway ACK	CorView was unable to communicate with the satellite system. Please notify Mobiltex if this occurs. Timeout occurs after six minutes. This reading will be highlighted in red.
Done: Timeout waiting for Command ACK	The message was sent but a timeout occurred while waiting for the acknowledgement response from the unit. The unit may be powered down or may be experiencing reception issues. Timeout occurs after six minutes. This reading will be highlighted in red.

Table 10: RMU3/5 Command Status

Cmd Sent: The date the command was sent from the *RMU3/5 Control* page. As with the *Readings Page*, the UTC offset is shown in the column header.

Command: The type of command that was sent. See the *Sending RMU3/5 Commands* section for more information on commands.

User: The account user name of the person who sent the command.

5.4 Recent RMU3/5 Readings Table

The recent RMU3/5 readings table is located on the bottom right of the *RMU3/5 Control page*. It is a simplified version of the readings tables seen on the readings pages. The data in the table is controlled by the *Show Data for Last* dropdown which lists the readings taken within the selected time period. The data in the table is also controlled by the filtering menu which limits the dataset to the selected sites.

By default, the readings are shown for all RMU3 and RMU5 sites in the company for the last two hours.

The table can be sorted by clicking on the column header of the of the column that you would like to sort by. The sorted column header of the sort term will display in a lighter blue than the other column headers with an arrow showing the order (ascending or descending) of the sort. Clicking the column header a second time on the sort column will reverse the order of the sort. A description of each column follows:

Site Name: The name of the site that the command was sent to. When a command is sent to a group, one entry will appear in the table for each site in the group.

Group Name: The name of the group that the site belongs to.

Status: The status of the RMU at the time the reading was taken. Certain statuses are displayed with a colored background for easy notification of important conditions as shown in the RMU Status table, found in the *Readings* section of this document.

Reading Date: The date the reading was taken. As with the *Readings Page*, the UTC offset is shown in the column header.

RMU3/5 Rectifier Status: The status of the rectifier at the time the reading was taken. Certain statuses are displayed with a colored background for easy notification of important conditions as shown in the RMU3/5 Rectifier Status table, found in the *Readings* section of this document.

The table displays a maximum of ten readings per page by default. If there are more than ten readings that meet the time and unit filter parameters, they can be accessed by using the page numbers in the blue bar at the bottom of the table or you can change the page size using the *Page size* dropdown at the top and bottom of the table.

MOBILTEX® DATA LTD. Calgary, Alberta corView.corTalk.com	TITLE: corView User Manual		
	DOCUMENT NO.: CORVIEW-MAN-001	SHEET: 30 of 58	REV: 1.22

6 Reviewing RMU 3/5 Command History

Under the “RMU3/5 Control” menu item is the *Command History Page* which allows you to review the commands sent to sites or groups of sites.

The screenshot shows the 'Command History' interface. At the top, there are filter options: 'Filter By:' with a dropdown for 'Group Name' (set to 'Show All Groups'), a dropdown for 'Site Name' (set to '-- Select a Site --'), and checkboxes for 'Interruption Only' (checked) and 'Filter Columns'. Below these are date range selectors: 'Filter Commands From' (16-May-2011) and 'To' (16-Jul-2011). The main table has 12 columns: Group Name, Site Number, Site Name, Command Date (UTC-8), Command, Hours to Interrupt, Cycle Time (ms), Off Time (ms), Daily Repeat, Int. Start Date (UTC-8), Int. Stop Date (UTC-8), and User Name. The table contains 15 rows of data, including commands like 'Start Interrupting Now' and 'Rectifier On'. At the bottom, there are buttons for 'Download Table To Excel' and 'Export Table To CSV'.

Group Name	Site Number	Site Name	Command Date (UTC-8)	Command	Hours to Interrupt	Cycle Time (ms)	Off Time (ms)	Daily Repeat	Int. Start Date (UTC-8)	Int. Stop Date (UTC-8)	User Name
Relav Test	4534	Pauls Rmu3	10-Jun-11 14:07	Start Interrupting Now	1	9988	4455	No Repetition	10-Jun-11 14:07	10-Jun-11 15:07	Mark Bentley
Relav Test	4534	Pauls Rmu3	6-Jun-11 14:52	Start Interrupting Now	2	9988	4455	No Repetition	6-Jun-11 14:52	6-Jun-11 16:52	Mark Bentley
Relav Test	4534	Pauls Rmu3	6-Jun-11 10:52	Start Interrupting Now	1	5000	1000	No Repetition	6-Jun-11 10:52	6-Jun-11 11:52	Tony daCosta
Relav Test	-	Tonvs RMU3S	6-Jun-11 10:52	Start Interrupting Now	1	5000	1000	No Repetition	6-Jun-11 10:52	6-Jun-11 11:52	Tony daCosta
Relav Test	4534	Pauls Rmu3	6-Jun-11 10:50	Rectifier On	-	-	-	-	-	-	Tony daCosta
Relav Test	-	Tonvs RMU3S	6-Jun-11 10:50	Rectifier On	-	-	-	-	-	-	Tony daCosta
Relav Test	4534	Pauls Rmu3	6-Jun-11 10:44	Start Interrupting Now	1	5000	1000	No Repetition	6-Jun-11 10:44	6-Jun-11 11:44	Tony daCosta
Relav Test	-	Tonvs RMU3S	6-Jun-11 10:44	Start Interrupting Now	1	5000	1000	No Repetition	6-Jun-11 10:44	6-Jun-11 11:44	Tony daCosta
Relav Test	4534	Pauls Rmu3	4-Jun-11 08:13	Start Interrupting Now	1	5000	2500	No Repetition	4-Jun-11 08:13	4-Jun-11 09:13	Tony daCosta
Relav Test	-	Tonvs RMU3S	4-Jun-11 08:13	Start Interrupting Now	1	5000	2500	No Repetition	4-Jun-11 08:13	4-Jun-11 09:13	Tony daCosta
Relav Test	4534	Pauls Rmu3	3-Jun-11 15:07	Start Interrupting Now	2	999	444	No Repetition	3-Jun-11 15:07	3-Jun-11 17:07	Mike Hoogstraal
Relav Test	4534	Pauls Rmu3	3-Jun-11 11:38	Start Interrupting Now	2	9898	4545	No Repetition	3-Jun-11 11:38	3-Jun-11 13:38	Mark Bentley
Relav Test	4534	Pauls Rmu3	2-Jun-11 11:27	Start Interrupting Now	1	9988	4455	No Repetition	2-Jun-11 11:27	2-Jun-11 12:27	Mark Bentley
Relav Test	-	Tonvs RMU3S	21-May-11 03:53	Start Interrupting Now	1	5000	1000	No Repetition	21-May-11 03:53	21-May-11 04:53	Tony daCosta
Relav Test	4534	Pauls Rmu3	16-May-11 09:27	Start Interrupting Now	1	9876	4568	No Repetition	16-May-11 09:27	16-May-11 10:27	Mark Bentley

Figure 8: RMU 3/5 Command History

6.1 Filtering Commands

Located below the main menu is the *Filter By* menu which can be used to filter the commands displayed by group, site, date, or set to show interruption commands only. Selecting a group from the *Group Name* dropdown will show only commands for sites in that group. Selecting a site from either the *Site Name* or *Site Number* dropdowns will show only commands for that site. The *Filter Commands From/To* boxes control the date range of the commands displayed. By default, it displays the last month of information only. Clicking in either of the date boxes will open a calendar menu to select the desired date.

6.2 Command History Columns

Group Name: The name of the group that the site belongs to.

Site Number: The site number of the site that the command was sent to. When a command is sent to a group, one entry will appear in the table for each site in the group. Clicking on this link will open the *All Readings* page for this site.

Site Name: The name of the site that the command was sent to. When a command is sent to a group, one entry will appear in the table for each site in the group. Clicking on this link will open the *All Readings* page for this site.

Command Date: The date and time that the command was sent.

Command: The command that was sent. By default, the *Interruption Only* checkbox is enabled and only interruption commands are displayed.

MOBILTEX® DATA LTD. Calgary, Alberta corView.corTalk.com	TITLE: corView User Manual		
	DOCUMENT NO.: CORVIEW-MAN-001	SHEET: 31 of 58	REV: 1.22

Hours to Interrupt: The number of hours to interrupt for that was sent to the unit.

Cycle Time (ms): The interruption cycle time sent

Off Time (ms): The interruption off time sent.

Daily Repeat: Was daily repeat set, and if so for how many days.

Int Start Date: The date and time that the interruption should start.

Int Stop Date: The date and time that the interruption should end.

User Name: The name of the user who sent the command.

MOBILTEX® DATA LTD. Calgary, Alberta corView.corTalk.com	TITLE: corView User Manual		
	DOCUMENT NO.: CORVIEW-MAN-001	SHEET: 32 of 58	REV: 1.22

7 Account Setup

The initial account setup, including initial company settings and one user with administrator access, will be done by Mobiltex. Additional setup, such as the creation of more users, can be done by a company administrator user.

7.1 Company Setup

A company account is made up of a collection of users, units, sites and groups. All company users may view any data relating to company sites or groups and view all company readings.

Company Information

Company Name	Acme Pipeline Company Demo															
Temperature Degrees	Fahrenheit															
Rectifier Off Alarm Threshold (Days)	14															
RMU New Unit Email List	Off															
RMU System Faults Report Email List	Off															
RMU Exception Report Email List	Off															
RMU Button Press Email List	Off															
Archive Readings File Email Start Date																
Display Time Zone	Other / UTC															
Reports Time Zone	Local Time Zone (Other / UTC)															
Shared Fields To Show	Group Name			Site Number			Door			RSSI			Temp F			
	No			Yes			No			Yes			Yes			
Rectifiers Page Fields to Show	Rectifier DC Volts	Rectifier AC Volts	Rectifier DC Amps	Drain1 DC Amps	Drain2 DC Amps	Drain3 DC Amps	P/S DC Volts	P/S AC Volts	P/S Instant Off	P/S2 DC Volts	Rect2 DC Volts	Rect2 AC Amps	AC Mitigation Amps	Rectifier Line Volts	AC In	RMU3-3 Rectifier Status
	Yes	No	Yes	No	No	No	Yes	Yes	No	No	No	No	No	Yes	Yes	Yes
Bond Points Page Fields to Show	Bond1 DC Amps	Bond2 DC Amps	Bond3 DC Amps	Bond4 DC Amps	P/S1 DC Volts	P/S1 AC Volts	P/S1 Instant Off	P/S2 DC Volts	P/S2 AC Volts	P/S3 DC Volts	P/S4 DC Volts	AC Mitigation Amps				
	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No				
Test Points Page Fields to Show	P/S1 DC Volts	P/S1 AC Volts	P/S1 Instant Off	P/S2 DC Volts	P/S2 AC Volts	P/S3 DC Volts	P/S4 DC Volts									
	Yes	Yes	No	No	No	No	No									
Edit																

Figure 9: Company Info Page

7.1.1 Editing Company Settings

To edit company settings, you must have administrator access and take the following steps:

1. Open the *Company Info* page under the Setup menu.
2. Click the *Edit* link (only visible to users with company administrator privileges) located below the Company Information table.
3. Edit the settings as desired.
4. Click *Update* to save the changes or *Cancel* to discard them. Both links are located below the Company Information table.

7.1.2 Company Settings

Initial company settings will be selected by Mobiltex during corView account setup. They can be changed by any company user with administrator access. Certain company settings will be overridden by the corresponding group or user settings.

You must have administrator privileges to change the company settings.

Company Name: The company name displayed at the top of the page when a user is logged in.

MOBILTEX® DATA LTD. Calgary, Alberta corView.corTalk.com	TITLE: corView User Manual		
	DOCUMENT NO.: CORVIEW-MAN-001	SHEET: 33 of 58	REV: 1.22

Temperature Degrees: The control to select whether to display temperatures in Celsius or Fahrenheit. To avoid confusion, different users within one company are not allowed to use different units of measurement.

Rectifier Off Alarm Threshold (Days): This value determines the amount of days to wait until reports are sent that a rectifier has been off. The default is 14 days.

RMU New Unit Email List: A semicolon separated list of email addresses that the new unit emails are sent when a new RMU starts transmitting.

RMU System Faults Report Email List: A semicolon separated list of email addresses that the system fault reports are sent. For more information on system fault reports, please see the *Reports and Notifications* section.

RMU Exception Report Email List: A semicolon separated list of email addresses that exception notices are sent. For more information on exception reports, please see the *Reports and Notifications* section.

RMU Button Press Email List: A semicolon separated list of email addresses that test button press reports are sent.

Archive Readings File Email List: A semicolon separated list of email addresses that the archive readings files are sent. For more information on archive readings files, please see the *Reports and Notifications* section.

Archive Readings File Email Interval: The frequency that the archive readings files are sent.

Archive Readings File Email Start Date: The date of the first reading in the next report sent. The interval setting value will be added to this value to determine the dates for subsequent archive readings files.

Display Time Zone: The default time zone for user displays and emails. This can be overridden by group and user settings. This is also used as the default when setting up new users and groups as described in the Display and Email Time Zones section.

Reports Time Zone: The default time zone setting for reports exported from the readings pages and archive reports. This is also used as the default when setting up new users and groups as described in the Display and Email Time Zones section.

Shared Fields to Show: This is only used as the initial *Shared Fields to Show* setting when you create new users. See the *Shared Readings Columns* section for more information.

Rectifiers Page Fields to Show: This is only used as the initial *Rectifiers Page Fields to Show* setting when you create new users. See the *Rectifier Readings Columns* section for more information.

Bond Points Page Fields to Show: This is only used as the initial *Bond Points Page Fields to Show* setting when you create new users. See the *Bond Point Readings Columns* section for more information.

MOBILTEX® DATA LTD. Calgary, Alberta corView.corTalk.com	TITLE: corView User Manual		
	DOCUMENT NO.: CORVIEW-MAN-001	SHEET: 34 of 58	REV: 1.22

Test Points Page Fields to Show: This is only used as the initial *Test Points Page Fields to Show* setting when you create new users. See the *Test Point Readings Columns* section for more information.

7.2 Users

A user account is the means of accessing corView. A variety of access levels control what the users can do within corView from read-only guest access to full editing privileges.

NOTE: Companies must have at least one administrator user at all times.

User Information Sample User Clear My Cookies

User Login	SUser																																										
First Name	Sample																																										
Last Name	User																																										
User Roles	RMU5 User, Guest, User																																										
Initial Page URL																																											
Email Address	SUser@corTalk.com																																										
Display Time Zone	Canada / Central Time																																										
User Reports Time Zone	Company Setting: Other / UTC																																										
Shared Fields To Show	<table border="1"> <tr> <th colspan="3">Group Name</th> <th colspan="3">Site Number</th> <th colspan="3">Door</th> <th colspan="3">RSSI</th> <th colspan="3">Temp C</th> </tr> <tr> <td colspan="3">No</td> <td colspan="3">No</td> <td colspan="3">No</td> <td colspan="3">No</td> <td colspan="3">Yes</td> </tr> </table>	Group Name			Site Number			Door			RSSI			Temp C			No			No			No			No			Yes														
Group Name			Site Number			Door			RSSI			Temp C																															
No			No			No			No			Yes																															
Rectifiers Page Fields to Show	<table border="1"> <tr> <th>Rectifier DC Volts</th> <th>Rectifier AC Volts</th> <th>Rectifier DC Amps</th> <th>Drain1 DC Amps</th> <th>Drain2 DC Amps</th> <th>Drain3 DC Amps</th> <th>P/S DC Volts</th> <th>P/S AC Volts</th> <th>P/S Instant Off</th> <th>P/S2 DC Volts</th> <th>Rect2 DC Volts</th> <th>Rect2 DC Amps</th> <th>AC Mitigation Amps</th> <th>Rectifier Line Volts</th> <th>AC In</th> <th>RMU3/5 Rectifier Status</th> </tr> <tr> <td>Yes</td> <td>No</td> <td>Yes</td> <td>No</td> <td>Yes</td> </tr> </table>	Rectifier DC Volts	Rectifier AC Volts	Rectifier DC Amps	Drain1 DC Amps	Drain2 DC Amps	Drain3 DC Amps	P/S DC Volts	P/S AC Volts	P/S Instant Off	P/S2 DC Volts	Rect2 DC Volts	Rect2 DC Amps	AC Mitigation Amps	Rectifier Line Volts	AC In	RMU3/5 Rectifier Status	Yes	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	Yes										
Rectifier DC Volts	Rectifier AC Volts	Rectifier DC Amps	Drain1 DC Amps	Drain2 DC Amps	Drain3 DC Amps	P/S DC Volts	P/S AC Volts	P/S Instant Off	P/S2 DC Volts	Rect2 DC Volts	Rect2 DC Amps	AC Mitigation Amps	Rectifier Line Volts	AC In	RMU3/5 Rectifier Status																												
Yes	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	Yes																												
Bond Points Page Fields to Show	<table border="1"> <tr> <th>Bond1 DC Amps</th> <th>Bond2 DC Amps</th> <th>Bond3 DC Amps</th> <th>Bond4 DC Amps</th> <th>P/S1 DC Volts</th> <th>P/S1 AC Volts</th> <th>P/S1 Instant Off</th> <th>P/S2 DC Volts</th> <th>P/S2 AC Volts</th> <th>P/S3 DC Volts</th> <th>P/S4 DC Volts</th> <th>AC Mitigation Amps</th> </tr> <tr> <td>Yes</td> <td>Yes</td> <td>Yes</td> <td>Yes</td> <td>Yes</td> <td>Yes</td> <td>Yes</td> <td>Yes</td> <td>Yes</td> <td>No</td> <td>No</td> <td>Yes</td> </tr> </table>	Bond1 DC Amps	Bond2 DC Amps	Bond3 DC Amps	Bond4 DC Amps	P/S1 DC Volts	P/S1 AC Volts	P/S1 Instant Off	P/S2 DC Volts	P/S2 AC Volts	P/S3 DC Volts	P/S4 DC Volts	AC Mitigation Amps	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes																		
Bond1 DC Amps	Bond2 DC Amps	Bond3 DC Amps	Bond4 DC Amps	P/S1 DC Volts	P/S1 AC Volts	P/S1 Instant Off	P/S2 DC Volts	P/S2 AC Volts	P/S3 DC Volts	P/S4 DC Volts	AC Mitigation Amps																																
Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes																																
Test Points Page Fields to Show	<table border="1"> <tr> <th colspan="3">P/S1 DC Volts</th> <th colspan="3">P/S1 AC Volts</th> <th colspan="3">P/S1 Instant Off</th> <th colspan="3">P/S2 DC Volts</th> <th colspan="3">P/S2 AC Volts</th> <th colspan="3">P/S3 DC Volts</th> <th colspan="3">P/S4 DC Volts</th> </tr> <tr> <td colspan="3">Yes</td> <td colspan="3">Yes</td> <td colspan="3">Yes</td> <td colspan="3">Yes</td> <td colspan="3">Yes</td> <td colspan="3">No</td> <td colspan="3">No</td> </tr> </table>	P/S1 DC Volts			P/S1 AC Volts			P/S1 Instant Off			P/S2 DC Volts			P/S2 AC Volts			P/S3 DC Volts			P/S4 DC Volts			Yes			Yes			Yes			Yes			Yes			No			No		
P/S1 DC Volts			P/S1 AC Volts			P/S1 Instant Off			P/S2 DC Volts			P/S2 AC Volts			P/S3 DC Volts			P/S4 DC Volts																									
Yes			Yes			Yes			Yes			Yes			No			No																									

[Edit](#) [Delete](#)

Figure 10: User Info Page

7.2.1 User Roles

There are several user roles that can be granted to corView users as described below:

Guest: The *Guest* role allows read-only access to corView with no editing privileges.

User: The *User* role includes everything from the *Guest* role and allows users to edit their personal settings.

NOTE: Setting the user role will also set the guest role.

Site Deletion: The *Site Deletion* role allows users to add, edit and permanently delete sites.

Admin: The administrator role includes everything from the *user* role and allows users to add, delete and edit any editable setting for all users in their region. They may also edit sites and add, edit and delete groups.

NOTE: Setting the administrator role will also set the user and guest roles.

RMU3/5 User: The *RMU3/5 user* role enables the *RMU3/5 Control page*. It is an extra set of privileges that may be granted to users with any access level.

MOBILTEX® DATA LTD. Calgary, Alberta corView.corTalk.com	TITLE: corView User Manual		
	DOCUMENT NO.: CORVIEW-MAN-001	SHEET: 35 of 58	REV: 1.22

7.2.2 Adding Users

To add a user you must have administrator access and take the following steps:

1. Open the *User Info* page under the setup menu.
2. Click *New* at the bottom of the table.
3. Enter the new user information.

NOTE: The user login and email address field must be unique within corView. You can use the *Generate Unique User Login* button to create a unique login or the *Check User Name* button to check if your current user name is unique.

4. The *Generate User Password* button will create a unique user password. Users with the *User Role* can change their password later if they wish.
5. Click *Insert* to save the new user.

7.2.3 Deleting Users

To delete a user you must have administrator access and take the following steps:

1. Select the user from the dropdown list on the *User Info* page. The user dropdown list will only be visible when logged in on an account with administrator privileges.
2. Click *Delete*.
3. Click OK when prompted to confirm

Warning: This action is permanent. Deleted users cannot be recovered.

7.2.4 Editing User Settings

Users with more than guest access may edit their personal user settings. Users with administrator access may change the settings of any company users by selecting that user from the dropdown list. Take the following steps to edit user settings:

1. Click the *Edit* link located above the bottom menu bar.
2. Change settings as desired.
3. Click *Update* to save the changes or *Cancel* to discard them. Both links are located below the User Settings table.

NOTE: *User Logins* may not be changed and *User Roles* may only be changed by users with administrator access.

7.2.5 Changing User Passwords

Users with more than guest access may change their own password. Users with administrator access may also change the password of any company user by selecting that user from the user dropdown list. Passwords may be changed by selecting the user and clicking the *Edit* button.

MOBILTEX® DATA LTD. Calgary, Alberta corView.corTalk.com	TITLE: corView User Manual		
	DOCUMENT NO.: CORVIEW-MAN-001	SHEET: 36 of 58	REV: 1.22

7.2.6 User Settings

User settings control what information is displayed on the readings pages, the user name, user access level and the email address to which a lost password would be sent. Unless specified, user settings can be changed by users with the *user* or administrator roles.

User Login: User logins are case insensitive and must be unique within corView. They can not be changed once the user is set up.

First Name: The user's first name.

Last Name: The user's last name.

Password: The user's password. If you enter a new password here and in the *Verify Password* section, then click *Update*, the password will be changed. Just leave this blank to keep the current password.

Verify Password: The user's password. If you enter a new password here and in the *Password* section, then click *Update*, the password will be changed. Just leave this blank to keep the current password.

User Role: The user's access level. This setting may only be changed by users with administrator access.

Initial Page URL: This controls what page you go to when you log in. By default, most users will go to the "All Readings" page and regional users will go to the regional All Readings page (see the "Regional User's Guide" for more information). If you would prefer to start at a different page then select it from the dropdown menu that appears when editing.

Email Address: The user's email address. This email address must be unique in the corView system. This email address is used for:

- Requesting new passwords from the login screen.
- When archive reports and exception emails are sent out. This email is used to find the user's time zone information where possible.

Display Time Zone: The time zone that you want to use for any dates or times on the website. This enables you to choose a specified time zone, a UTC offset, or use the company default setting.

User Reports Time Zone: This enables you to specify if you want your exported readings and archive reports in UTC or the *display time zone*.

Shared Fields to Show: This specifies what columns to show from the main columns that are displayed on all pages and reports. Some columns cannot be disabled. When a new user is created, this is initially set to the company settings. See the *Shared Readings Columns* section for more information.

MOBILTEX® DATA LTD. Calgary, Alberta corView.corTalk.com	TITLE: corView User Manual		
	DOCUMENT NO.: CORVIEW-MAN-001	SHEET: 37 of 58	REV: 1.22

Rectifiers Page Fields to Show: This specifies what columns to display for the *Rectifiers* readings page. When a new user is created, this is initially set to the company settings. See the *Rectifier Readings Columns* section for more information.

Bond Points Page Fields to Show: This specifies what columns to display for the *Bond Points* readings page. When a new user is created, this is initially set to the company settings. See the *Bond Point Readings Columns* section for more information.

Test Points Page Fields to Show: This specifies what columns to display for the *Test Points* readings page. When a new user is created, this is initially set to the company settings. See the *Test Point Readings Columns* section for more information.

MOBILTEX® DATA LTD. Calgary, Alberta corView.corTalk.com	TITLE: corView User Manual		
	DOCUMENT NO.: CORVIEW-MAN-001	SHEET: 38 of 58	REV: 1.22

8 RMU Setup

There are several styles of RMU that can currently be used with corView. Please see the corresponding section of the RMUs

RMUs are devices capable of monitoring and controlling cathodic protection systems (in the case of RMU3 and RMU5). They can be installed at rectifier, bond point or test point sites.

8.1.1 Adding RMUs

RMUs are added to your corView account by Mobiltex prior to shipping. Your unassigned RMUs will appear in the *RMU ESN* dropdown when adding or editing a site. If a new RMU is not listed there or in the *Assigned RMUs* dropdown, please contact Mobiltex.

NOTE: If an unassigned unit is turned on and starts sending messages (i.e. power up and scheduled messages), corView will create a new site for it and assign that site to your oldest group by default. In this case, the name of the site will be the unit ESN.

8.1.2 Deleting RMUs

Please contact Mobiltex to delete an RMU. If you simply remove a unit from a site, you will still be billed for that unit until Mobiltex is notified.

8.1.3 RMU Settings

The currently reported RMU settings are displayed on the *Site List* page. RMU settings may not be changed remotely. The reported settings are only for reference and verification.

8.2 Sites

A site is the physical location of an RMU installation. It may be a rectifier, a bond, or a test point. All sites must belong to a group.

NOTE: If an unassigned RMU sends data, a site will be automatically created for it. The site name will be the RMU ESN (electronic serial number) and it will be assigned to the default group (which is the oldest group). The default group is shown at the top right of the *Group Setup* page.

8.2.1 Site List Page

This page provides another quick overview of all sites in your company or region with the ability to filter based on region, group, unit type and to filter out inactive sites. Clicking on the links in columns 4 to 6 will display the appropriate data in the *All Readings* page.

Column 3 will display a gear icon for sites that are interruptible and will display a link to its corresponding RMU 3/5 Control Page.

Data from this table can also be exported to Excel or CSV using the buttons at the bottom of the page.

To reorder the columns, drag the header of the column to where you want it. This new order will be remembered on your current computer. The reordering can be cleared by clicking “*Clear My Cookies*” on the “*User Information*” page.

MOBILTEX® DATA LTD. Calgary, Alberta corView.corTalk.com	TITLE: corView User Manual		
	DOCUMENT NO.: CORVIEW-MAN-001	SHEET: 39 of 58	REV: 1.22

NOTE: RMU2 units do not have GPS satellite or rectifier interruption information.

NOTE: Site settings may not be changed by users with guest access.

Group Name: The name of the group to which the site belongs. All sites must belong to a group.

Site Number: A unique ID number for the site. This is an optional setting and can be left blank or set to 0 if not used.

Site Name: A unique alphanumeric string of up to 40 characters to name the site.

Site Description: A unique alphanumeric string of up to 40 characters to describe the site.

ESN: The electronic serial number of the RMU assigned to the site. If no RMU is assigned to the site, the field will be blank. When editing the site, you will be shown the initial RMU ESN and a list of available units to select.

GPS Latitude: The GPS latitude of the site.

GPS Longitude: The GPS longitude of the site.

Report Frequency: How often the site takes measurements and sends them in to corView.

Last Site Reading Date: The date of the last reading received from the site.

First Site Transmission Date: The date of the first transmission received from the site.

Measurement Type: The site measurement type setting.

Firmware Version: The last reported RMU firmware version.

GPS Sat Count: How many GPS satellites the unit can see and if it has GPS time lock (required for interruption).

RMU 3/5 Int Status: The interruption status for an RMU3 or RMU5.

Door Alarm: Is the door alarm enabled.

AC Line: Is the AC line sense enabled.

Slot 1 Low Limit: The low limit for the reading in slot 1 if it is set.

Slot 1 High Limit: The high limit for the reading in slot 1 if it is set.

Slot 2 Low Limit: The low limit for the reading in slot 2 if it is set.

Slot 2 High Limit: The high limit for the reading in slot 2 if it is set.

Slot 3 Low Limit: The low limit for the reading in slot 3 if it is set.

MOBILTEX® DATA LTD. Calgary, Alberta corView.corTalk.com	TITLE: corView User Manual		
	DOCUMENT NO.: CORVIEW-MAN-001	SHEET: 40 of 58	REV: 1.22

Slot 3 High Limit: The high limit for the reading in slot 3 if it is set.

Slot 4 Low Limit: The low limit for the reading in slot 4 if it is set.

Slot 4 High Limit: The high limit for the reading in slot 4 if it is set.

Interruption Order: When the RMU3 or RMU5 starts interrupting, does it go on or off first?

Last Site Edit Date: The date that the site settings were last edited. This field is automatically filled in by corView.

Site Last Edited By: The user name of the person who last edited the site settings. This field is automatically filled in by corView.

Last Site Service Date: The date of the site's last service. This is a manually updated field to allow RMU service to be logged in corView and it is up to the user to maintain it.

Service Comments: Any comments related to the site. This is a manually updated field to allow RMU service information to be logged in corView and it is up to the user to maintain it.

8.2.2 Adding Sites

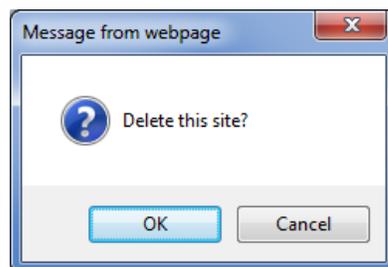
You must have administrator access and take the following steps in order to add a site:

1. Click *Add New Site*  **Add New Site** located at the top right of the table on the *Site List* page.
2. Fill out the fields. The site number, service date and service comment fields are optional and all other fields are required.
3. Click *Insert* to add the new site or *Cancel* to discard it. Both buttons are located below the settings.

8.2.3 Deleting Sites

You must have *Site Deletion* access in order to delete a site:

1. Select the site to be deleted from *Site List* page
2. Click the garbage can icon  at the left of the row.



3. Click *OK* when the confirmation message appears.

MOBILTEX® DATA LTD. Calgary, Alberta corView.corTalk.com	TITLE:	corView User Manual	
	DOCUMENT NO.: CORVIEW-MAN-001	SHEET: 41 of 58	REV: 1.22

Warning: All site readings and site information will be permanently deleted!

8.2.4 Editing Site Settings

You must have administrator access and take the following steps in order to edit site settings:

1. Select the site to be deleted from *Site List* page
2. Click edit pencil  or double click the row in the table to edit the site.
3. Edit the settings as desired.
4. Click *Update* to save the changes or *Cancel* to discard them. Both links are located below the Site Settings table.

8.2.5 Deactivating Sites

To deactivate a site:

1. When editing the site, uncheck Active and save your changes.

NOTE: Deactivating a site automatically releases the RMU assigned to that site so that it can be reassigned to another site.

8.2.6 Sites Status Summary Page

The sites summary page gives you a quick overview of the recent status of your sites and allows you to filter for several possible issues such as overdue, missing transmissions, exceptions, power ups, and low GPS satellite counts.

Sites Summary Page Filtering



Figure 11: Site Summary Page Filtering

The sites summary can be filtered using the standard dropdowns used throughout corView. It also has several other filtering options:

Scheduled TX to Process: This is sets the time period for each site to look at (how far back you look). It is the number of expected scheduled reading transmission periods that you want to look back. For example, if you have a RMU5 that transmits weekly and you set this to 5, then it will look at data from the last 5 weeks.

NOTE: Since the time period is set by the number of readings, the actual amount of time looked at varies for each site depending on the site's reporting period.

NOTE: For an RMU2, it only transmits once every 4 readings, so a unit set to do a reading every day will transmit every 4 days. So, if you set the Scheduled TX to Process to 5, the system will look at the last 20 days (4 days * 5).

MOBILTEX® DATA LTD. Calgary, Alberta corView.corTalk.com	TITLE: corView User Manual		
	DOCUMENT NO.: CORVIEW-MAN-001	SHEET: 42 of 58	REV: 1.22

Overdue: Shows all sites that are currently overdue.

Missed Scheduled: Shows all sites that missed a scheduled report in the time period that you are looking at.

Requests Failed: Shows sites that had a command sent to them from the *RMU 3/5 Control* page that did not properly go through (i.e. a command sent to a unit that is not communicating properly).

Power Ups: Shows sites that powered up in the time requested.

Exceptions: Shows sites that had an exception in the time period requested.

Low GPS Satellites: Shows sites that had a low GPS satellite reading in the time period requested.

No RMU: Shows sites that do not currently have a RMU assigned to them.

Filter By Slots: Each site sends readings in one of 5 slots depending on the measurement type. If this is enabled, it lets you select what filter for each slot. You can filter each slot base on “is it used”, “is it not used” or you can ignore it.

Slot 1: The filter for slot 1 settings.

Slot 2: The filter for slot 2 settings.

Slot 3: The filter for slot 3 settings.

Slot 4: The filter for slot 4 settings.

Slot 5: The filter for slot 5 settings.

Site Summary Overview

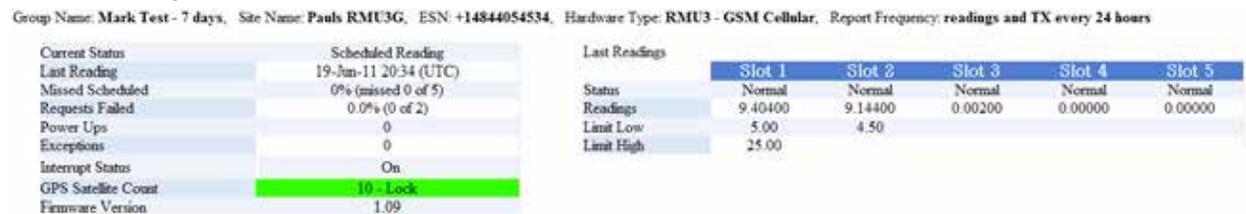


Figure 12: Site Summary

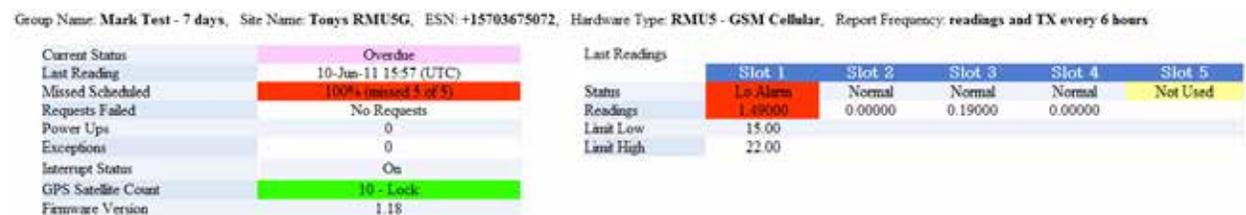


Figure 13: Site Summary Showing Issues

MOBILTEX® DATA LTD. Calgary, Alberta corView.corTalk.com	TITLE: corView User Manual		
	DOCUMENT NO.: CORVIEW-MAN-001	SHEET: 43 of 58	REV: 1.22

For each matchign the filter criteria, there are several pieces of data. These are:

Group Name: The name of the group that the site belongs to.

Site Name: The name of the. Clicking on this link will open the *All Readings* page for this site.

ESN: The site Electronic Serial Number (ESN)

Hardware Type: The site hardware type and communications protocol.

Report Frequency: How often the unit takes readings and transmits them. RMU3 and RMU5 units transmit as soon as they have a reading. For an RMU2, it will transmit once every 4 readings.

Current Status: The current status of the site.

Last Reading Date: The date of the last transmission received.

Missed Scheduled: This shows: the percentage of scheduled transmissions that have not been received as well as the actual count of messages missed and the expected count.

If the unit has missed more than 66% of the scheduled messages, this field will be red. If the unit has missed 33% to 66% of the scheduled messages, this field will be yellow.

Requests Failed: This field shows the number of requests that were sent to the unit from the RMU 3/5 control page and if the proper response was received. It shows the percentage of messages that received a proper response as well as the number of responses that were received and the number of messages that were sent.

NOTE: This field does not apply to RMU2s.

Power Ups: The number of power up messages that were received from the site.

Exceptions: The number of exception messages received from the site.

Interrupt Status: The last site interrupt status

NOTE: This field does not apply to RMU2s.

GPS Satellite Count: The GPS satellite count and if the site has time lock (required for interruption). If the site does not have a GPS time lock, then this field will be red.

NOTE: This field does not apply to RMU2s.

Firmware Version: The site RMU firmware version

Last Readings Table: This table shows the last readings and limits for the site.

Slot x: The slot number (1 to 5)

MOBILTEX® DATA LTD. Calgary, Alberta corView.corTalk.com	TITLE: corView User Manual		
	DOCUMENT NO.: CORVIEW-MAN-001	SHEET: 44 of 58	REV: 1.22

NOTE: RMU2 units use 4 slots, RMU3 and RMU5 units can use up to 5.

Status: The status of the slot. If the slot is in an exception, it will be marked red. If the slot is not used by the site, then it will be light yellow.

Readings: The reading for the slot. If the slot is in an exception, it will be marked red.

Limit Low: The low limit for the slot.

Limit High: The high limit for the slot.

8.3 Groups

Groups allow company RMU sites to be subdivided into sets, such as by region, to allow users to more quickly view the reading data they want. All sites must belong to one, and only one, group.

NOTE: Companies must have at least one group at all times. By default, automatically created sites are assigned to the oldest group in the company profile (which is initially your “Default” group). The default group is indicated at the top right of the page.

The screenshot shows the 'Group Setup' page for a group named 'Default'. At the top, there are two dropdown menus: 'Name: Default' and 'Number: -- Select a Group --'. To the right, it says 'The default group for new units is: 'Default''. Below this is a table of settings:

Group Name	Default
Group Number	Not Set
RMU New Unit Email List	Override Company New RMU Email List with group email list: "user1@corTalk.com"
RMU System Faults Report Email List	Using Company RMU System Faults Report Email List.
RMU Exception Report Email List	Using Company Exception Email List.
RMU Button Press Email List	Using Company Button Press Email List.
Archive Readings File Email List	Using Company Archive Readings Email List.
Email Time Zone	Using Company Time Zone Setting: Other / UTC
Email Archive Reports Time Zone Override	Using Company Report Time Zone Setting

At the bottom left of the table, there are links: 'Edit Delete New'.

Figure 14 Group Setup Page

8.3.1 Group Settings

Group settings are displayed on the *Group Setup* page. The settings for a given group may be viewed by selecting that group in either the group name or group number dropdown list.

NOTE: Group settings may only be changed by users with administrator access.

Group Name: A unique alphanumeric string to describe the site. Group names must contain at least one character and be unique within the company.

Group Number: A unique ID number for the group. This is an optional setting and can be left blank or set to 0 if not used. The group number is only displayed in downloaded reports and emailed archive reports as a way of correlating data with other systems.

RMU New Unit Email List: A semicolon separated list of email addresses for new unit emails are sent to when a new RMU starts transmitting. This setting will NOT override the company *RMU New Unit Email List*.

RMU System Faults Report Email List: A semicolon separated list of email addresses for system fault reports. For more information on system fault reports, please see the *Reports and*

MOBILTEX® DATA LTD. Calgary, Alberta corView.corTalk.com	TITLE: corView User Manual		
	DOCUMENT NO.: CORVIEW-MAN-001	SHEET: 45 of 58	REV: 1.22

Notifications section. This will NOT override the company *RMU System Faults Report Email List*.

RMU Exception Report Email List: A semicolon separated list of email addresses for exception emails. For more information on exception reports, please see the *Reports and Notifications* section. This will NOT override the company *RMU Exception Report Email List*.

RMU Button Press Email List: A semicolon separated list of email addresses for test button press reports emails. This will NOT override the company *RMU Button Press Email List*.

Archive Readings File Email List: A semicolon separated list of email addresses for archive readings files emails. For more information on archive readings files, please see the *Reports and Notifications* section.

Archive Readings File Email Interval: If the *Archive Readings File Email List* is set, then this sets how often the archive readings files are sent.

Archive Readings File Email Start Date: If the *Archive Readings File Email List* is set, then this is the start date of the first reading in the next report sent. The interval setting value will be added to this value to determine the dates for subsequent archive readings files.

Email Time Zone: This enables you to choose a specified time zone; a UTC offset or use the company default setting.

Email Archive Reports Time Zone Override: This enables you to specify if you want your groups archive reports in UTC or the *display time zone*.

NOTE: Emails set here will work in addition to that setup for the company. If the same email is placed in both Locations, then two emails will be sent to the same address.

8.3.2 Adding Groups

To add a group, you must have administrator access and take the following steps:

1. Click the *New* link, located on the *Group Setup* page.
2. Fill in the fields.
3. Click *Insert* to add the new group or *Cancel* to discard it. Both links are located below the below the Group Settings table.

MOBILTEX® DATA LTD. Calgary, Alberta corView.corTalk.com	TITLE: corView User Manual		
	DOCUMENT NO.: CORVIEW-MAN-001	SHEET: 46 of 58	REV: 1.22

8.3.3 Deleting Groups

You must have administrator access and take the following steps in order to delete a group:

1. Select the group to be deleted from the dropdown menu on the *Group Setup* page.
2. Click the *Delete* link located below the Group Settings table.
3. Click *Yes* when the confirmation message appears at the bottom of the page.

NOTE: When you delete a group, all sites belonging to that group will be automatically reassigned to the company's oldest group.

8.3.4 Editing Group Settings

You must have administrator access and take the following steps in order to edit group settings:

1. Select the group from the dropdown menu on the *Group Setup* page.
2. Click the *Edit* link located below the Group Settings table.
3. Edit the settings as desired.
4. Click the *Update* link to save the changes or the *Cancel* link to discard them.

8.3.5 Listing Groups

The group list page will display each group you have access to along with any emails that have been entered.

NOTE: Emails listed here will not affect emails assigned to the company. Both sections will receive individual emails.

MOBILTEX® DATA LTD. Calgary, Alberta corView.corTalk.com	TITLE: corView User Manual		
	DOCUMENT NO.: CORVIEW-MAN-001	SHEET: 47 of 58	REV: 1.22

9 Help

The help feature can be accessed through the main menu. It consists of links to PDF versions of the user manuals for corView and the associated hardware.

A link to download Adobe Acrobat is also provided to open these PDF files if it is not already installed on your computer.

MOBILTEX® DATA LTD. Calgary, Alberta corView.corTalk.com	TITLE: corView User Manual		
	DOCUMENT NO.: CORVIEW-MAN-001	SHEET: 48 of 58	REV: 1.22

10 Reports and Notifications

CorView can be configured to send out near real-time notification of events (i.e. a unit entering an alarm state) and periodic reports (i.e. such as a listing of unresponsive units or an archive of old readings). Other than the archive reports, the emails sent out are short and wireless friendly so that they can be read using mobile email devices. The list of people the reports and notifications are sent to is controlled by the company and group email lists. Both lists can be used independently of the other.

NOTE: In order to ensure that email messages from corView are received, please add rmu@corTalk.com to the allowed list of any email filters.

If you are receiving emails that you do not want, please contact your administrator or reply to one of the messages with a short note requesting to be removed.

10.1 Report and Notification Times

The times shown in the email reports are controlled by several factors. When sending any emails, the system does the following with each email address in the appropriate list to decide what time zone to use:

- If the email address belongs to a registered user, the system uses their individual time settings. These may be set to default to the company settings.
- If the email address is unknown, use the group time settings. These may be set to default to the company settings.

For archive reading file reports, the system uses the *Reports Time Zone* field to decide if it should use UTC or local time. If you have selected local time, then it uses the *Display Time*.

For all other emails, it just uses the *Display Time* field.

MOBILTEX® DATA LTD. Calgary, Alberta corView.corTalk.com	TITLE: corView User Manual		
	DOCUMENT NO.: CORVIEW-MAN-001	SHEET: 49 of 58	REV: 1.22

10.2 RMU New Unit Notification

The RMU new unit notification is a near real-time email sent out when an RMU first transmits from a site. It is sent to the *RMU New Unit Email List* for the group to which the site belongs or to company email list of the same name.

10.2.1 Sample RMU New Unit Email

Here is a sample RMU new unit email:

Subject: corView RMU New Unit site: 0-353867
From: "Rmu@cortalk.com" <Rmu@cortalk.com>

New Unit 14-Jun-2011 13:38:01 UTC-6 (14-Jun-2011 19:38:01 UTC)

Co: ABC Pipelines Inc. Group: Relay Test

Site: 0-353867 ESN: 0-353867

Type: RECT1 readings every 168 hours, TX every 28 days

F/W: 16

	Rectifier DC Volts	0.00	
	Rectifier DC Amps	0.00	
	Drain1 DC Amps	0.00	
	Drain2 DC Amps	0.00	
WARN	AC Line Status	NO AC	

Sent by corView DEVELOPMENT server (.8). If received in error, please reply with subject line "unsubscribe".

10.3 RMU System Faults Report

The RMU system faults report is an email sent daily between 0600 and 0700 UTC. The email lists all units in the group that are not responding, have never responded or are in a low or warning battery state. It is not sent when there has been no change in status from the previous report. Emails are sent on a per group basis to the group's *RMU System Faults Report Email List* or to the company list of the same name if the group setting is blank.

MOBILTEX® DATA LTD. Calgary, Alberta corView.corTalk.com	TITLE:	corView User Manual	
	DOCUMENT NO.: CORVIEW-MAN-001	SHEET: 50 of 58	REV: 1.22

10.3.1 Sample RMU System Faults Email

Subject: RMU System Faults Report 16-Aug-2008
From: "Rmu@cortalk.com" <Rmu@cortalk.com>
Date: Tue, 16-Aug-2008 06:00:10
To: customer@company.com

corView RMU System Faults Report

Co: [ABC Pipelines Inc.](#) Group: [Mark Test - Daily](#)

11-Jun-2011 00:00:00 UTC-6 (11-Jun-2011 06:00:00 UTC)

3 Faulted of 4 Total Units

Overdue Units			
Stat	Site	ESN	Last Reading
NEW	Tonys RMU5G	+15703675072	10-Jun-2011 09:57:04 UTC-6 (10-Jun-2011 15:57:04 UTC)
	+14844053348	+14844053348	14-Mar-2011 14:01:00 UTC-6 (14-Mar-2011 20:01:00 UTC)
	+15703675074	+15703675074	20-Apr-2011 11:45:05 UTC-6 (20-Apr-2011 17:45:05 UTC)

Sent by corView DEVELOPMENT server (.8). If received in error, please reply with subject line "unsubscribe".

10.4 *RMU Exception Report*

The RMU exception report is a near real-time email sent to notify users of an RMU's change in status. Status changes include a unit powering up (power up exception email), entering an alarm or warning state (exception error email) or the clearing of an alarm state. Alarm states include measurement readings exceeding their limits, door switch changes and AC line sense changes. Emails are sent to the *RMU Exception Report Email List* for the group to which the site belongs or to company email list of the same name.

MOBILTEX® DATA LTD. Calgary, Alberta corView.corTalk.com	TITLE:	corView User Manual	
	DOCUMENT NO.: CORVIEW-MAN-001	SHEET: 51 of 58	REV: 1.22

10.4.1 Sample Power Up Exception Emails

Here is a sample RMU2 Power Up email:

Subject: corView RMU Power Up site: 0-353867
From: "Rmu@cortalk.com" <Rmu@cortalk.com>

Unit Power Up 14-Jun-2011 13:45:03 UTC-6 (14-Jun-2011 19:45:03 UTC)

Co: ABC Pipelines Inc. Group: Relay Test

Site: 0-353867 ESN: 0-353867

Type: RECT1 readings every 168 hours, TX every 28 days

F/W: 16

	Rectifier DC Volts	0.00	
	Rectifier DC Amps	0.00	
	Drain1 DC Amps	0.00	
	Drain2 DC Amps	0.00	
WARN	AC Line Status	NO AC	

Sent by corView DEVELOPMENT server (.8). If received in error, please reply with subject line "unsubscribe".

MOBILTEX® DATA LTD. Calgary, Alberta corView.corTalk.com	TITLE: corView User Manual		
	DOCUMENT NO.: CORVIEW-MAN-001	SHEET: 52 of 58	REV: 1.22

10.4.2 Sample Exception Error Email

Here is a sample exception error email:

Subject: corView RMU Exception Report site: 4931864
From: "Rmu@cortalk.com" <Rmu@cortalk.com>

Exception Report 04-Jun-2011 11:18:03 UTC-6 (04-Jun-2011 17:18:03 UTC)

Co: ABC Pipelines Inc. Group: Default

Site: 4931864 ESN: 4931864

Type: RECT10 readings and TX every 24 hours

F/W: 1.18 GPS: [51.08542N 113.99677W](#)

CLEAR	Rectifier DC Volts	3.56	Limit 3.00 to 30.00
	Drain1 DC Amps	10.66	Limit 5.00 to 30.00
	Drain2 DC Amps	10.67	Limit 5.00 to 30.00
	Line DC Volts	15.81	Limit 10.00 to 40.00
	Rectifier AC Volts	0.26	
	AC Line Status	AC present	
	RSSI	5	
	Rectifier Status	On	

Sent by corView DEVELOPMENT server (.8). If received in error, please reply with subject line "unsubscribe".

MOBILTEX® DATA LTD. Calgary, Alberta corView.corTalk.com	TITLE:	corView User Manual	
	DOCUMENT NO.: CORVIEW-MAN-001	SHEET: 53 of 58	REV: 1.22

10.4.3 Sample Exception Clear Email

Here is a sample exception clear email:

Subject: corView RMU Clear Exception site: Pauls Rmu3 (Site Number 4534)
From: "Rmu@cortalk.com" <Rmu@cortalk.com>

Clear Exception 06-Jun-2011 10:49:01 UTC-6 (06-Jun-2011 16:49:01 UTC)

Co: [ABC Pipelines Inc.](#) Group: [Relay Test](#)

Site: [Pauls Rmu3](#) (Site #: 4534) ESN: +14844054534

Type: [RECT6 readings and TX every 24 hours](#)

F/W: 1.09 GPS: [51.08551N 113.99686W](#)

	Rectifier DC Volts	9.42	Limit 5.00 to 25.00
	Rectifier DC Amps	9.16	Low Limit 4.50
	P/S1 DC Volts	0.002	
	Rectifier Line Volts	0.00	
	Rectifier AC Volts	0.00	
CLEAR	Door Status	just closed	
	RSSI	5	
	Rectifier Status	Int	

Sent by corView DEVELOPMENT server (.8). If received in error, please reply with subject line "unsubscribe".

MOBILTEX® DATA LTD. Calgary, Alberta corView.corTalk.com	TITLE: corView User Manual		
	DOCUMENT NO.: CORVIEW-MAN-001	SHEET: 54 of 58	REV: 1.22

10.5 RMU Button Press Notification

The RMU button press notification is an email sent out when the *Test* button on an RMU2 or RMU3 is pressed. It is sent to the *RMU Button Press Email List* for the group to which the site belongs, or to company email list of the same name.

10.5.1 Sample RMU Button Press Email

Here is a sample button press email:

Subject: corView RMU Button Press site: Pauls Rmu3 (Site Number 4534)
From: "Rmu@cortalk.com" <Rmu@cortalk.com>

Button Press 17-Jun-2011 15:27:03 UTC-6 (17-Jun-2011 21:27:03 UTC)

Co: ABC Pipelines Inc. Group: Relay Test

Site: Pauls Rmu3 (Site #: 4534) ESN: +14844054534

Type: RECT6 readings and TX every 24 hours

F/W: 1.09 GPS: [51.08551N 113.99710W](#)

	Rectifier DC Volts	9.40	Limit 5.00 to 25.00
	Rectifier DC Amps	9.15	Low Limit 4.50
	P/S1 DC Volts	0.002	
	Rectifier Line Volts	0.00	
	Rectifier AC Volts	0.00	
WARN	Door Status	OPEN	
	RSSI	8	
	Rectifier Status	On	

Sent by corView DEVELOPMENT server (.8). If received in error, please reply with subject line "unsubscribe".

MOBILTEX® DATA LTD. Calgary, Alberta corView.corTalk.com	TITLE: corView User Manual		
	DOCUMENT NO.: CORVIEW-MAN-001	SHEET: 55 of 58	REV: 1.22

10.6 Archive Reading File Report

The archive reading file report is an email containing a CSV file with all the readings data received for a group since the last such email was sent. The frequency with which the reports are sent is controlled by the *Archive Readings File Email Interval* setting. The date the first such report is sent is controlled by the *Archive Readings File Date* setting. The interval setting may be used to disable the reports. Emails are sent on a per group basis to the group's *Archive Readings File Email List* and to the company with all groups in one archive.

NOTE: The report is not sent until all units in a group have had the chance to report in. For instance, if one unit in the group is set for transmissions once every 28 days, the report will not be sent until 28 days after the end of the reporting period.

MOBILTEX® DATA LTD. Calgary, Alberta corView.corTalk.com	TITLE: corView User Manual		
	DOCUMENT NO.: CORVIEW-MAN-001	SHEET: 56 of 58	REV: 1.22

11 RMU Unit Types

11.1 RMU2

RMU2 units take and store readings according to a predefined schedule (every 6, 24, 48, or 168 hours) and transmit them as one bundle over the communications channel every fourth reading. All readings include four user selected measurement slots, an optional door tamper switch and an optional AC Sense line. For RMU2G units, readings taken at the time of transmission also include RSSI (Receive Signal Strength Indicator), unit temperature and battery status information. In addition, units run periodic checks against a set of user defined alarm limits.

11.1.1 RMU2G (GSM Cellular)

The RMU2G uses the GSM cellular network to transmit messages and requires adequate GSM coverage to be able to send in messages.

RMU2G units also send in RSSI readings.

11.1.2 RMU2S (Simplex Satellite)

The RMU2S is the Simplex satellite version of the RMU2. It is well suited for remote locations without GSM cell phone coverage.

RMU2S units do not send in RSSI readings.

11.2 RMU3

RMU3s are non-expandable units that add interruption to the features of a RMU2. In addition to the features of an RMU2, users may send control signals, such as turning the rectifier on or off or setting an interruption schedule to RMU3 units. Like the RMU5s, RMU3s take readings according to a predefined schedule (every 24, 48 or 168 hours) and immediately transmit them to corView.

Because they have GPS receivers for accurate timing, the RMU3 will also update its position when it is powered up.

11.2.1 RMU3G (GSM Cellular)

The RMU3G is a GSM cell phone based version of the RMU3.

RMU3G units also send in RSSI readings

11.2.2 RMU3S (Iridium Satellite)

corView uses the Iridium satellite system to communicate with RMU3S units.

RMU3S units also send in RSSI readings.

MOBILTEX® DATA LTD. Calgary, Alberta corView.corTalk.com	TITLE: corView User Manual		
	DOCUMENT NO.: CORVIEW-MAN-001	SHEET: 57 of 58	REV: 1.22

11.3 RMU5

RMU5 units are an expandable unit that takes readings according to a predefined schedule (every 24, 48 or 168 hours) and immediately transmit them to corView. All readings include four to six user selected measurement slots (depending on the measurement type), RSSI, an optional door alarm switch and an optional AC input power monitor. In addition, units run periodic checks against a set of user defined alarm limits. Users may send control signals, such as turning the rectifier on or off or setting an interruption schedule to RMU5 units.

Because they have GPS receivers for accurate timing, the RMU5 will also update its position when it is powered up.

11.3.1 RMU5G (GSM Cellular)

The RMU5G is a GSM cell phone based version of the RMU5.

RMU5G units also send in RSSI readings.

11.3.2 RMU5I (IsatM2M satellite)

corView uses the IsatM2M satellite system to communicate with RMU5I units.

RMU5I units also send in RSSI readings.

11.3.3 RMU5S (Iridium Satellite)

corView uses the Iridium satellite system to communicate with RMU5I units.

RMU5S units also send in RSSI readings.

MOBILTEX® DATA LTD. Calgary, Alberta corView.corTalk.com	TITLE: corView User Manual		
	DOCUMENT NO.: CORVIEW-MAN-001	SHEET: 58 of 58	REV: 1.22