

COMANCHE[®]
DATA CENTER
USER MANUAL



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1.0 Introduction

All of ***BORIN Manufacturing, Inc.'s*** equipment can be integrated together seamlessly to encompass all the requirements of an integrated company: from production wells through the gathering system, to the pipeline, into the refinery and onto the service stations; every type of communication system working together, including the internet.

2.0 How To Set Up Your System

2.1 Set Up your Company's Account

If you have purchased any of the **COMANCHE Remote Monitoring & Control System** units with an interface to the **COMANCHE Data Center** please have the Account Manager contact the customer service department at **BORIN Manufacturing, Inc.** to create an account at:

datacenter@borin.com

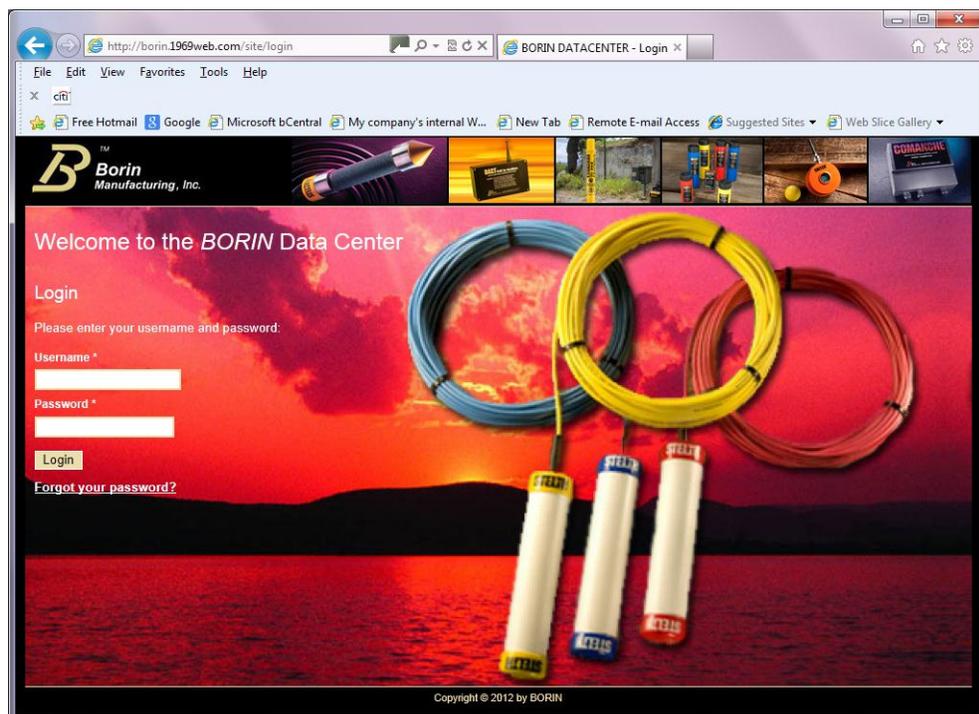
The Account Manager will receive an e-mail with:

User ID: example

Password: example

The Account Manager can create and manage the **COMANCHE Data Center users** at the **My Users** tab.

After logging in for the first time it is recommended to set a new password.



Once you log into the system, you access the Home page with tabs to the different sections of the Data Center as well as a Welcome summary that displays your latest messages, alarms and a list of your projects.

B Borin Manufacturing, Inc.

Home My Profile My Users My Sections My Templates My Reports Contact Us Help Logout (Telmacom)

Welcome Telmacom Monitoreo Remoto at Telmacom

My Messages

- You have [79 uncleared alarms](#).

My Sections

- [Monitoreo Remoto O&M Norte](#)
- [Test Section](#)
- [Monitoreo Remoto O&M Sabana](#)
- [Monitoreo Remoto O&M Casanare](#)
- [Monitoreo Remoto O&M Magdalena Medio](#)
- [Monitoreo Remoto O&M Antioquia](#)
- [Monitoreo Remoto O&M Andina](#)
- [DART Test Points](#)

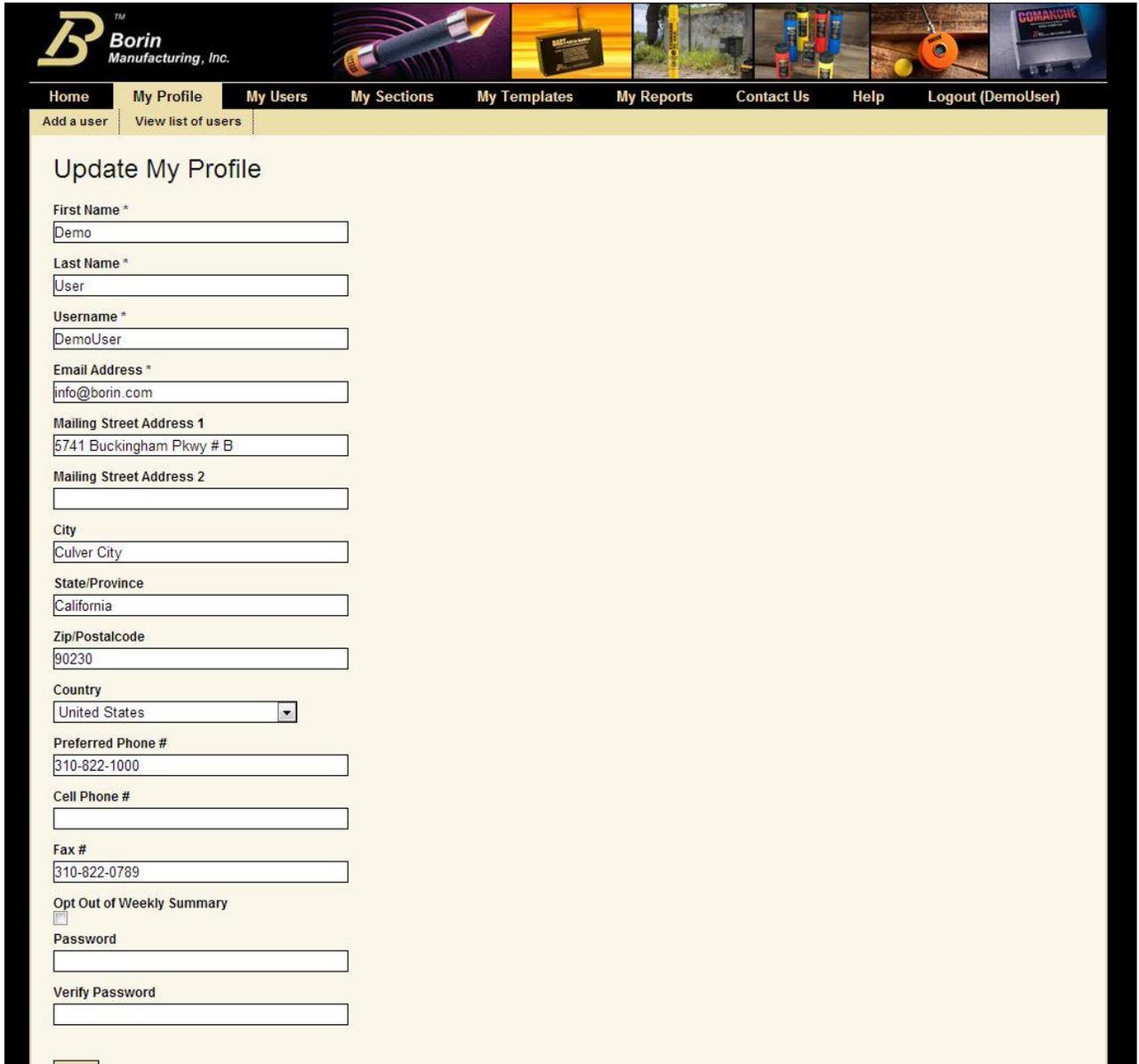
My Links

- [BORIN web site](#)

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2.2 Configure your User Profile and Password

After logging in for the first time it is recommended to set a new password, you can change the password, configure and save your profile in the **My Profile** tab.



The screenshot shows the user profile update interface for Borin Manufacturing, Inc. The page features a navigation menu at the top with tabs for Home, My Profile, My Users, My Sections, My Templates, My Reports, Contact Us, Help, and Logout (DemoUser). Below the navigation, there are two sub-tabs: Add a user and View list of users. The main content area is titled "Update My Profile" and contains a form with the following fields:

- First Name *: Demo
- Last Name *: User
- Username *: DemoUser
- Email Address *: info@borin.com
- Mailing Street Address 1: 5741 Buckingham Pkwy # B
- Mailing Street Address 2: (empty)
- City: Culver City
- State/Province: California
- Zip/Postalcode: 90230
- Country: United States (dropdown menu)
- Preferred Phone #: 310-822-1000
- Cell Phone #: (empty)
- Fax #: 310-822-0789
- Opt Out of Weekly Summary:
- Password: (empty)
- Verify Password: (empty)

The account manager can **Add a User** to the **COMANCHE Data Center** from this screen and can manage or add users from the **My Users** tab.

3.0 How To Set Up Your Installation

3.1 Register your COMANCHE RMU in the Data Center

Your newly installed **COMANCHE RMU** will automatically report to the **COMANCHE Data Center** as soon as it has been powered and has been connected to the Data Center via the GSM network or a TCP/IP network. For installation instructions follow the **COMANCHE Installation Manual**.

The New **COMANCHE RMU** will be listed as an Unassigned Installation. Go to **My Sections** tab and click on **View unassigned installations** to verify that your RMU has registered in the network. You can assign the installation to an existing section or if you have not created a section, please review the **Create a Section** part of this manual. Sometimes, from the factory we create a **Test Section** for you, this section would include all of your new **COMANCHE** installations.

If you can not find your **COMANCHE RMU** on the Unassigned Installation list, double check the power and GSM signal indicators in your **COMANCHE** unit and accessories as per the **COMANCHE Installation Manual**. If everything appears to be in order and the RMU is still not listed in the Data Center, please call the **COMANCHE Data Center** support at +1 310-822-1000.

Home My Profile My Users My Sections My Templates My Reports Contact Us Help Logout (Telmacom)

Add a section View a list of sections

Unassigned Installations

Displaying 1-2 of 2 result(s).

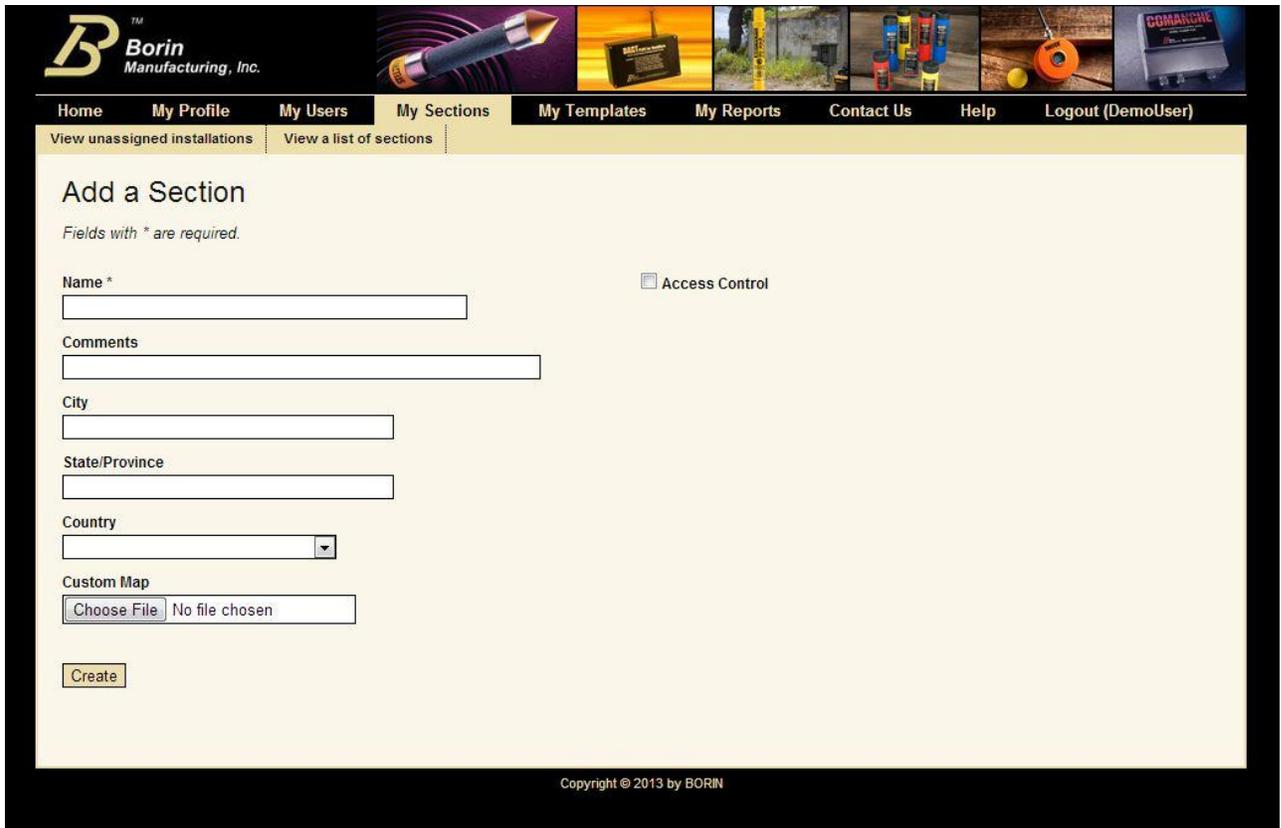
Installation	Assign to a section
10.64.0.75	Select a section
10.64.0.71	Select a section

Save Cancel

3.2 Create a Section

A Section in the **COMANCHE Data Center** is a group of **COMANCHE** RMCS Installations as defined by the Company or System Manager, for example: by zone, by region, by manager, by facility, etc.

To create a new project, go to the **My Sections** tab and click on **Add a Section**. Fill out the project information and click on **Create**.



The screenshot shows the Borin Manufacturing, Inc. web application interface. The top navigation bar includes links for Home, My Profile, My Users, My Sections (selected), My Templates, My Reports, Contact Us, Help, and Logout (DemoUser). Below the navigation bar, there are two tabs: "View unassigned installations" and "View a list of sections". The main content area is titled "Add a Section" and contains the following form fields:

- Name ***: A text input field.
- Comments**: A text area.
- City**: A text input field.
- State/Province**: A text input field.
- Country**: A dropdown menu.
- Custom Map**: A file upload button labeled "Choose File" with the text "No file chosen" next to it.
- Access Control**: A checkbox.
- Create**: A button at the bottom of the form.

At the bottom of the page, there is a copyright notice: "Copyright © 2013 by BORIN".

Now you can assign installations to this section as described in **COMANCHE RMU** registration in the Data Center portion of this manual, and continue to Configure your Installation.

3.3 Reassign an Installation to the Appropriate Section

If your installations are already in the Data Center from the factory it is simple to move each to their appropriate section. To reassign an installation to the appropriate section go to **My Sections**, click on **Test Section** then click on the name of the installation that you want to move. Select the **Details** menu and go to **Edit Details**. Select the desired section from the **Section** dropdown list and click on **Save**.

Borin Manufacturing, Inc.

Home My Profile My Users My Sections My Templates My Reports Contact Us Help Logout (Telmacom)

Details Channels update Readings Configuration Alarms History Cyclic Interruption Section summary

Edit Installation Details for 10.64.0.26

Test Section.

^ The Data Center is not automatically fetching readings from this installation! ([more info](#))

*Fields with * are required.*

Name

Section

Type

Map Icon Type

Informal Properties

Properties

Install Date

Manufacturer and Model

Rating

Shunt Value

Kinds of Reading/Corrections

Latitude

Longitude

Comments

Automatic Readings Enabled

Automatic reading frequency

Automatic read time
 (in installation's time zone)

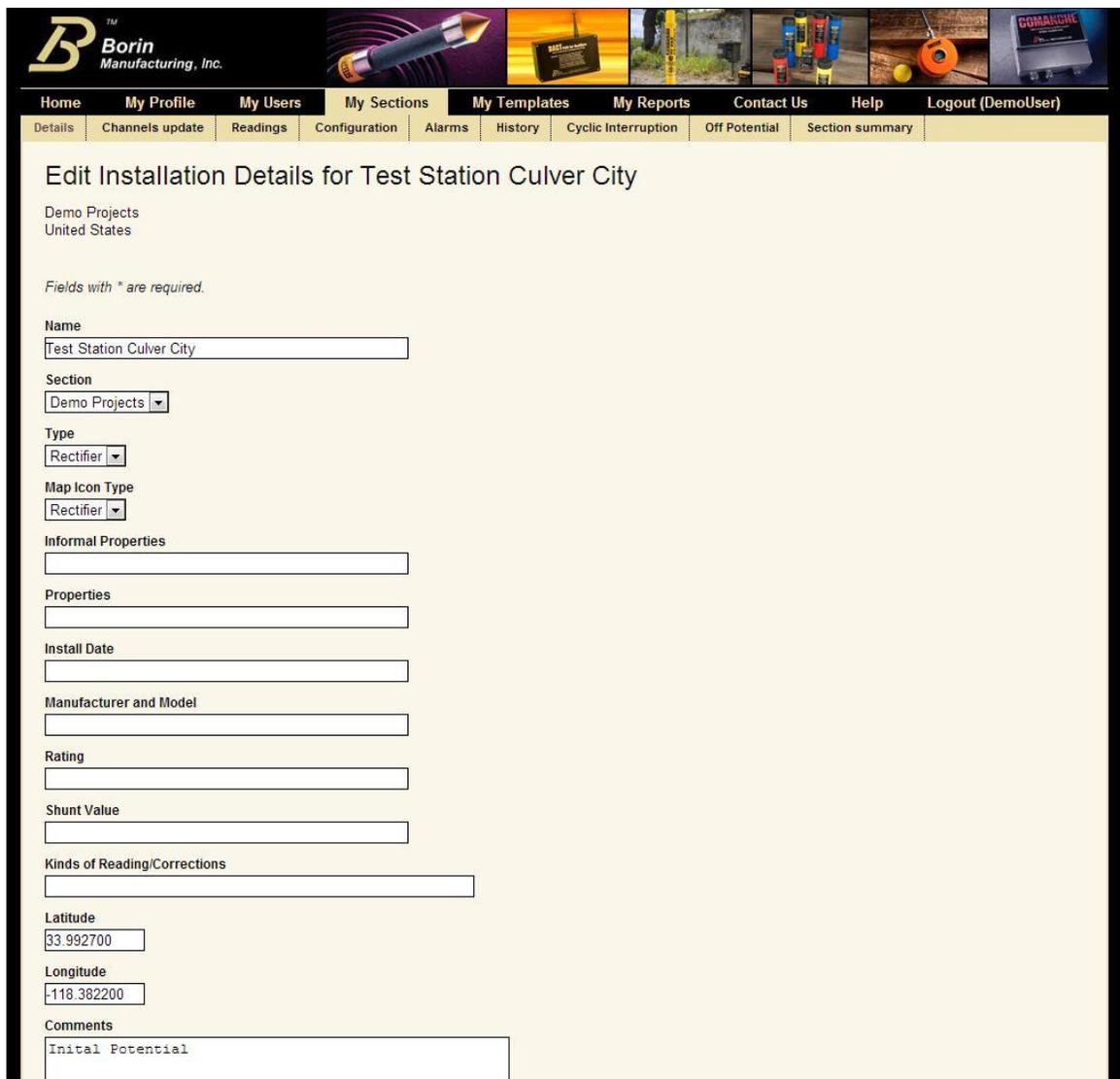
IP Address *

3.4 Configure your Installations

In this section you will enter all the information related to one **COMANCHE RMU** installation as well as its channel configuration.

Note: If you will be configuring several installations with the same parameters, you can create a template under **My Templates** and then push this template to all or some of the installations in a project.

To start configuring your installation, go to **My Sections** click on the desired project, then click on the desired installation. Go to **Details**, then **Edit Details**, fill out the information and click on **Save**.



The screenshot displays the web interface for Borin Manufacturing, Inc. The top navigation bar includes links for Home, My Profile, My Users, My Sections, My Templates, My Reports, Contact Us, Help, and Logout (DemoUser). Below this is a secondary navigation bar with tabs for Details, Channels update, Readings, Configuration, Alarms, History, Cyclic Interruption, Off Potential, and Section summary. The main content area is titled "Edit Installation Details for Test Station Culver City" and shows the following form fields:

- Demo Projects: United States
- Fields with * are required.
- Name: Test Station Culver City
- Section: Demo Projects (dropdown)
- Type: Rectifier (dropdown)
- Map Icon Type: Rectifier (dropdown)
- Informal Properties: [Empty text box]
- Properties: [Empty text box]
- Install Date: [Empty text box]
- Manufacturer and Model: [Empty text box]
- Rating: [Empty text box]
- Shunt Value: [Empty text box]
- Kinds of Reading/Corrections: [Empty text box]
- Latitude: 33.992700
- Longitude: -118.382200
- Comments: Initial Potential

3.5 Configure your Channels

In this section you will configure the channels of a **COMANCHE RMU** installation, e.g. assign names to each channel, channel ranges and alarm parameters.

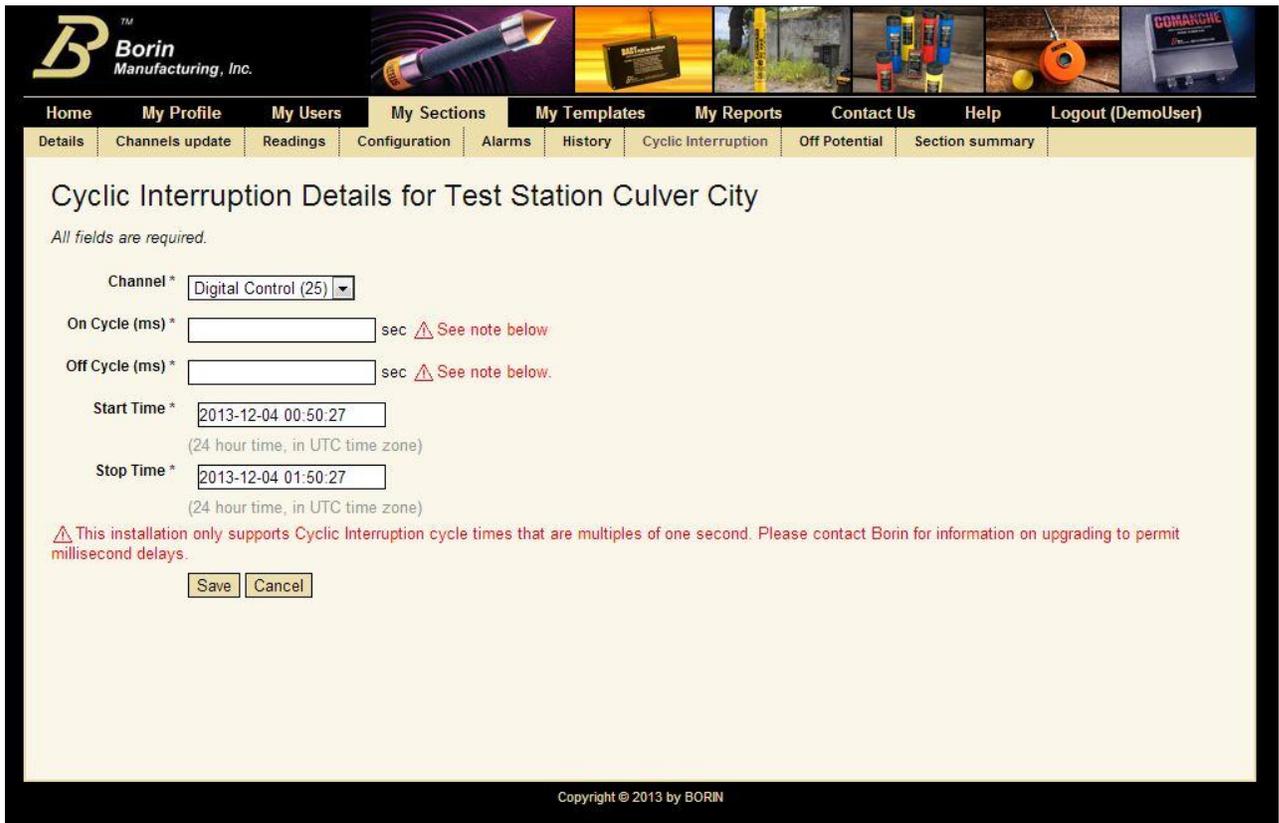
To set up your channels go to **My Sections**, click on a project and click on an installation. Go to **Channel Settings**, and fill out the information; to activate an alarm check the **Alarm Low** or **Alarm High** box for the corresponding channel. When all the channels have been configured, click on **Update Installation**.

The screenshot shows the Borin Manufacturing, Inc. web interface. The main content area is titled "List of Channels for Test Station Culver City". Below the title, there are links for "Demo Projects" and "United States". The main table lists various channels with their configurations.

Channel	Type	Monitor	Name	Units	Range Low	Range High	Power-up Value	Alarm Low	Alarm High
1	Analog Monitor	<input checked="" type="checkbox"/>	Structure 1 Potential	Celsius	0.000	20.000			
2	Analog Monitor	<input checked="" type="checkbox"/>	Structure 2 Potential	V	0.000	1.000			
3	Analog Monitor	<input checked="" type="checkbox"/>	Coupon Potential		0.000	1.000			
4	Analog Monitor	<input checked="" type="checkbox"/>	Coupon Off Potential		0.000	1.000			
5	Analog Monitor	<input checked="" type="checkbox"/>	Native Coupon Potential		0.000	1.000			
6	Analog Monitor	<input checked="" type="checkbox"/>	DC Current		0.000	1.000			
7	Analog Monitor	<input checked="" type="checkbox"/>	AC Coupon Potential		0.000	1.000			
8	Analog Monitor	<input checked="" type="checkbox"/>	AC Current Density		0.000	1.000			
9	Analog Control	<input type="checkbox"/>	Analog Control (9)		0.000	1.000	<input type="text"/>		
10	Analog Control	<input type="checkbox"/>	Analog Control (10)		0.000	1.000	<input type="text"/>		
17	Digital Monitor	<input type="checkbox"/>	AC input alarm					<input type="checkbox"/>	<input type="checkbox"/>
18	Digital Monitor	<input type="checkbox"/>	Digital Monitor (18)					<input type="checkbox"/>	<input type="checkbox"/>
19	Digital Monitor	<input type="checkbox"/>	Digital Monitor (19)					<input type="checkbox"/>	<input type="checkbox"/>
20	Digital Monitor	<input type="checkbox"/>	Digital Monitor (20)					<input type="checkbox"/>	<input type="checkbox"/>
25	Digital Control	<input type="checkbox"/>	Digital Control (25)				<input type="text" value="Off"/>	<input type="checkbox"/>	<input type="checkbox"/>
26	Digital Control	<input type="checkbox"/>	Digital Control (26)				<input type="text" value="Off"/>	<input type="checkbox"/>	<input type="checkbox"/>
27	Digital Control	<input type="checkbox"/>	Digital Control (27)				<input type="text" value="Off"/>	<input type="checkbox"/>	<input type="checkbox"/>
28	Digital Control	<input type="checkbox"/>	Digital Control (28)				<input type="text" value="Off"/>	<input type="checkbox"/>	<input type="checkbox"/>

3.6 Set up a Cyclic Interruption

To set up a cyclic interruption go to **My Sections**, select a project, select an installation and go to **Cyclic Interruption**. Click on **Add a cyclic interruption** settings; fill in the information and **Save**.



The screenshot shows the Borin Manufacturing, Inc. web interface. The top navigation bar includes links for Home, My Profile, My Users, My Sections, My Templates, My Reports, Contact Us, Help, and Logout (DemoUser). Below this is a secondary navigation bar with tabs for Details, Channels update, Readings, Configuration, Alarms, History, Cyclic Interruption, Off Potential, and Section summary. The main content area is titled 'Cyclic Interruption Details for Test Station Culver City' and includes a note that 'All fields are required.' The form contains the following fields:

- Channel * (Dropdown menu): Digital Control (25)
- On Cycle (ms) * (Text input): [] sec ⚠ See note below
- Off Cycle (ms) * (Text input): [] sec ⚠ See note below
- Start Time * (Text input): 2013-12-04 00:50:27
(24 hour time, in UTC time zone)
- Stop Time * (Text input): 2013-12-04 01:50:27
(24 hour time, in UTC time zone)

A warning message is displayed below the form: ⚠ This installation only supports Cyclic Interruption cycle times that are multiples of one second. Please contact Borin for information on upgrading to permit millisecond delays.

At the bottom of the form are 'Save' and 'Cancel' buttons.

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3.7 Take an Off Potential Reading

If you want to take an off potential pipe to soil reading you can program it, view the results and graph the readings as well.

To take an off potential reading on the rectifier go to **My Sections**, select a section, select an installation and go to **Off Potential**. Once there, edit the options to your conditions, review data or graph the off potential readings based on your needs.

For off potential readings for coupons you can go one step further and read the depolarization potential to verify that you meet a potential shift value (some companies use 100 mV shift criteria). To set the depolarization function, set a threshold channel (ie. Coupon potential), set a threshold value (ie. – 850 mV) and a depolarization wait time in seconds. The software will take the off potential reading and will compare it to the threshold, if the value is less negative than the threshold (ie. – 850 mV) then it will wait for the established wait time and it will take a second off potential reading. You can then compare this reading to the first and calculate if you meet your depolarization shift criteria (ie. 100 mV).

Borin Manufacturing, Inc.

Home My Profile My Users **My Sections** My Templates My Reports Contact Us Help Logout (DemoUser)

Details Channels update Readings Configuration Alarms History Cyclic Interruption Off Potential Section summary

Off Potential Details for Test Station Culver City

Fields with * are required.

Start Frequency * Weekly

Start Time * Monday (in installation's time zone)

Off Channel * Digital Control (25)

Off Potential Wait Time * 50 ms

Reference Channels *
 Structure 1 Potential
 Structure 2 Potential
 Coupon Potential
 Coupon Off Potential
 Native Coupon Potential
 DC Current
 AC Coupon Potential
 AC Current Density

Threshold Channel Structure 2 Potential

Threshold V (Valid range: 0 .. 1 V)

Depolarization Wait Time 5 s

Save Cancel

Off Potential Overview

Edit Off Potential Settings
Remove Potential Settings

View Off Potential Readings
Graph Off Potential Readings

4.0 How to Use your Remote Monitoring & Control System and Navigate through your Data Center

Your **COMANCHE** RMCS will automatically get remote readings from your system at a frequency defined by the Installation Supervisor in the Installation **Details** tab (**My Sections** / click on a project / click on an installation, go to **Details**).

The **COMANCHE Data Center** is a powerful tool that allows you to view, organize, sort, manage and report your readings. Here are some examples of how you can access your readings:

4.1 Section Summary

➤ View multiple installations readings in one screen

The section summary gives you a screen shot of the latest **automatic** readings of **all** the installations in one project (usually taken within the last 24 hours or the frequency set by the Installation Supervisor). This screen will display up to 4 channels for each installation, for example, all the rectifiers assigned to a pipeline project. The readings will be date and time stamped.

To view one of your project summaries go to the **My Sections** tab and select the project.

The screenshot displays the Borin Manufacturing, Inc. web application interface. The top navigation bar includes tabs for Home, My Profile, My Users, My Sections, My Templates, My Reports, Contact Us, Help, and Logout (Telmacom). Below the navigation bar, there are several action links: View a map of installations, View a list of installations, Section readings, Reorder installations, Add installation, and View a list of sections.

The main content area is titled "Monitoreo Remoto O&M Norte Summary: Last Readings for the First 4 Analog Channels" and is located in Cartagena Baranoa, Galán Chimita, Galán Sebastopol, Barrancabermeja, Santander, Colombia. It indicates that 1-9 of 9 results are displayed.

Installation Name	Favorite	Analog Channel	Analog Channel	Analog Channel	Analog Channel
El Guamito	★	Voltaje DC 2013-12-03 06:46:59.262 COT 0 V	Corriente DC 2013-12-03 06:46:59.498 0.366 mV COT	Potencial A 2013-12-03 06:46:59.736 0.003 V COT	
La Virgen	★	Voltaje DC 2013-12-03 15:15:59.594 0.317 V COT	Corriente DC 2013-12-03 15:15:59.831 18.311 mV COT	Potencial 2013-12-03 15:16:00.066 0.015 V COT	
San Silvestre	★	Voltaje DC 2013-12-03 06:58:15.541 0.293 V COT	Corriente DC 2013-12-03 06:58:15.780 8.765 mV COT		
Baranoa	★	Voltaje DC 2013-07-22 12:45:26.792 1.338 V COT	Corriente DC 2013-07-22 12:45:27.033 3.78 mV COT	Potencial A 2013-07-22 12:45:27.272 1.001 V COT	
Molinos	★	Voltaje DC 2013-11-20 03:45:02.594 COT 1 V	Corriente DC 2013-11-20 03:45:02.827 2.136 mV COT	Potencial 2013-11-20 03:45:03.059 COT 1 V	
Paiva	★	Voltaje DC 2013-12-02 06:43:34.813 0.122 V COT	Corriente DC 2013-12-02 06:43:35.045 0.464 mV COT	Potencial 2013-12-02 06:43:35.277 0.001 V COT	
Cartagena	★	Voltaje DC 2013-10-11 08:44:00.797 0.293 V COT	Corriente DC 2013-10-11 08:44:01.032 1.367 mV COT	Potencial A 2013-10-11 08:44:01.267 0.001 V COT	
10.64.0.25	★	Analog Monitor (2) 2013-09-03 09:56:03.783 1.786 V COT	Analog Monitor (3) 2013-09-03 09:56:03.908 0.005 V COT	Analog Monitor (4) 2013-09-03 09:56:04.033 0.501 COT	Analog Control (6) 2013-09-03 09:56:04.157 0 COT
10.64.0.19	★	Analog Monitor (2) 2013-07-19 10:22:08.525 COT 0.5	Analog Monitor (3) 2013-07-19 10:22:08.651 COT 0.501	Analog Monitor (4) 2013-07-19 10:22:08.775 0.669 COT	Analog Control (6) 2013-07-19 10:22:08.900 0.1 COT

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4.2 Installation Channels Update

The **Installation Channels Update** gives you the latest **automatic** readings of **all** the channels in **one** installation (usually taken within the last 24 hours or the frequency set by the Installation Supervisor) with the option to get a **live readings update**. This screen will display all the channels, channel ranges, alarm parameters and alarm status. The readings will be date and time stamped.

To view one of your section summaries go to the **My Sections** tab, select the project and select the installation.

To get live readings just click on the **Get Update to Latest Readings** button.

Alarms can be cleared from this screen, for instructions on how to clear alarms go to the alarms section of this manual (p. 22).

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Home My Profile My Users **My Sections** My Templates My Reports Contact Us Help Logout (Telmacom)

Details Channels update Readings Configuration Alarms History Cyclic Interruption Off Potential Section summary

Channels Update for Baranoa

Monitoreo Remoto O&M Norte
Cartagena Baranoa, Galán Chimita, Galán Sebastopol, Barrancabermeja, Santander, Colombia

⚠ The Data Center is not automatically fetching readings from this installation! ([more info](#))

↻ Refresh Page

Displaying 1-5 of 5 result(s).

Channel	Name	Type	Last Reading	Last Value	Range	Power-up Value	Command	Alarm Low	Alarm High	Alarm Triggered	Alarm Value	Clear Alarm	Action Taken
1	Voltaje DC	Analog Monitor	2013-07-22 12:45:26.792 COT	1.338 V	1... 100 V					2013-08-21 14:39:15.801 COT		Clear Alarm	
2	Corriente DC	Analog Monitor	2013-07-22 12:45:27.033 COT	3.78 mV	1.. 100 mV					2013-08-21 14:41:15.853 COT		Clear Alarm	
3	Potencial A	Analog Monitor	2013-07-22 12:45:27.272 COT	1.001 V	1.. 4 V					2013-08-21 14:41:21.944 COT		Clear Alarm	
25	Interruptor Negativo	Digital Control	2013-07-22 12:45:27.512 COT	On		Off	Set			2013-08-21 16:14:16.962 COT		Clear Alarm	
26	Protección Canales	Digital Control	2013-07-22 12:45:27.750 COT	Off		Off	Set			2013-08-21 14:43:17.515 COT		Clear Alarm	

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4.3 Readings Archive

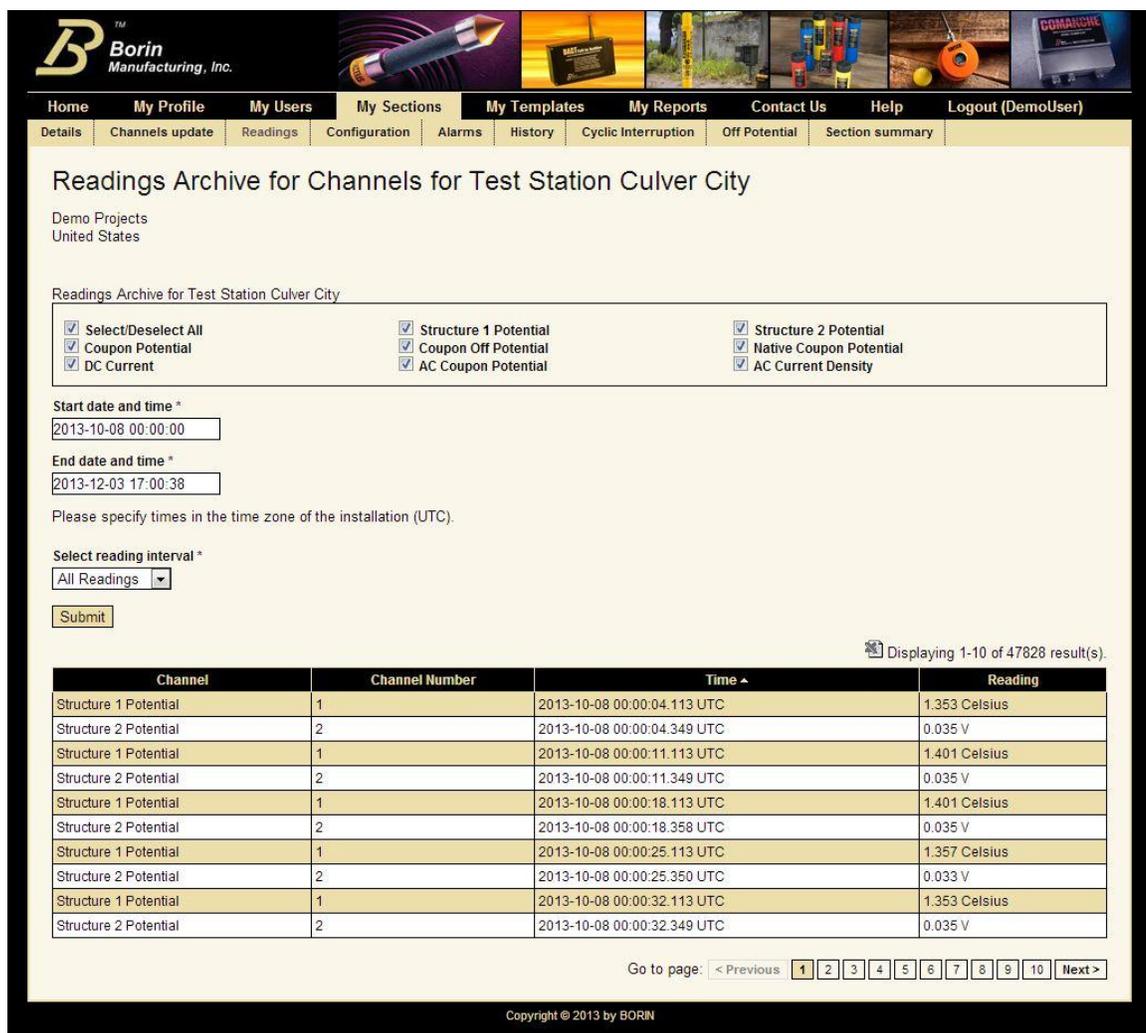
➤ Access your historical readings

The **Readings Archive** gives you access to the automatic readings stored in the Data Center, for example daily readings per channel per installation. You can select all channels or specific channels of the installation and define a period of time by setting the start and end time. You can also set the frequency of the readings, for example daily, weekly, monthly, etc.

The highest frequency in most cases must coincide with the automatic reading frequency, unless an authorized user has generated an advanced logging function.

The information retrieved can also be exported into Excel by clicking on the Excel logo on the right hand side of the screen.

To retrieve historic readings go to **My Sections**, select a project, select an installation, go to **Readings Archive**, define the settings and click on **Submit**.



Borin Manufacturing, Inc.

Home My Profile My Users My Sections My Templates My Reports Contact Us Help Logout (DemoUser)

Details Channels update Readings Configuration Alarms History Cyclic Interruption Off Potential Section summary

Readings Archive for Channels for Test Station Culver City

Demo Projects
United States

Readings Archive for Test Station Culver City

Select/Deselect All
 Coupon Potential
 DC Current

Structure 1 Potential
 Coupon Off Potential
 AC Coupon Potential

Structure 2 Potential
 Native Coupon Potential
 AC Current Density

Start date and time *
2013-10-08 00:00:00

End date and time *
2013-12-03 17:00:38

Please specify times in the time zone of the installation (UTC).

Select reading interval *
All Readings

Submit

Displaying 1-10 of 47828 result(s).

Channel	Channel Number	Time	Reading
Structure 1 Potential	1	2013-10-08 00:00:04.113 UTC	1.353 Celsius
Structure 2 Potential	2	2013-10-08 00:00:04.349 UTC	0.035 V
Structure 1 Potential	1	2013-10-08 00:00:11.113 UTC	1.401 Celsius
Structure 2 Potential	2	2013-10-08 00:00:11.349 UTC	0.035 V
Structure 1 Potential	1	2013-10-08 00:00:18.113 UTC	1.401 Celsius
Structure 2 Potential	2	2013-10-08 00:00:18.358 UTC	0.035 V
Structure 1 Potential	1	2013-10-08 00:00:25.113 UTC	1.357 Celsius
Structure 2 Potential	2	2013-10-08 00:00:25.350 UTC	0.033 V
Structure 1 Potential	1	2013-10-08 00:00:32.113 UTC	1.353 Celsius
Structure 2 Potential	2	2013-10-08 00:00:32.349 UTC	0.035 V

Go to page: < Previous 1 2 3 4 5 6 7 8 9 10 Next >

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4.4 History of Actions

The **History** tab gives you a list of all the actions that have occurred on the system including what type of action, when and who it was performed by. You can sort through the actions based on date, type, action, original value, new value and action by. This narrowing down of data allows you see specific changes over the course of a channel or installation and by whom.

Any of this data can be retrieved and exported to Excel by clicking on the Excel logo in the upper right hand corner of the screen.

To view a history of the actions taken on the system you go to **My Sections**, choose a project, select an installation and click on **History**.

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Home My Profile My Users **My Sections** My Templates My Reports Contact Us Help Logout (DemoUser)

Details Channels update Readings Configuration Alarms **History** Cyclic Interruption Off Potential Section summary

View History for Test Station Culver City

Demo Projects
United States

Displaying 1-10 of 1005 result(s).

Date	Type	Name	Action	Original Value	New Value	Action By
2013-12-03 14:10:42	Installation	Test Station Culver City	Removed cyclic interruption settings.			DemoUser
2013-12-03 14:10:30	Installation	Test Station Culver City	Set cyclic interruption settings.		100 ms on, 100 ms off from 2013-12-03 22:10:04 UTC to 2013-12-03 23:10:04 UTC	DemoUser
2013-11-30 17:03:03	Channel	Digital Control (25)	change off_potential_until		2013-12-01 01:03:08	administrator
2013-11-30 17:03:03	Channel	Coupon Potential	change off_potential_until		2013-12-01 01:03:08	administrator
2013-11-30 17:03:03	Channel	Structure 2 Potential	change off_potential_until		2013-12-01 01:03:08	administrator
2013-11-30 17:03:03	Channel	Structure 1 Potential	change off_potential_until		2013-12-01 01:03:08	administrator
2013-11-28 17:03:03	Channel	Digital Control (25)	change off_potential_until		2013-11-29 01:03:08	administrator
2013-11-28 17:03:03	Channel	Coupon Potential	change off_potential_until		2013-11-29 01:03:08	administrator
2013-11-28 17:03:03	Channel	Structure 2 Potential	change off_potential_until		2013-11-29 01:03:08	administrator
2013-11-28 17:03:03	Channel	Structure 1 Potential	change off_potential_until		2013-11-29 01:03:08	administrator

Go to page: < Previous 1 2 3 4 5 6 7 8 9 10 Next >

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4.5 Graph Readings

The **Graph Readings** option will display a graph of historic readings from up to 4 channels in an installation for a selected period of time.

The graphic can be downloaded and saved as an image.

To build a graph, go to **My Sections**, select a project, select an installation, under **Readings**, go to **Graph Readings**, define the settings and click on **Graph**.

Borin Manufacturing, Inc.

Home My Profile My Users My Sections My Templates My Reports Contact Us Help Logout (DemoUser)

Details Channels update Readings Configuration Alarms History Cyclic Interruption Off Potential Section summary

Graph Readings for Test Station Culver City

Demo Projects
United States

Graph Readings Already in the Data Center for Test Station Culver City

Select up to 4 channels *

Structure 1 Potential Structure 2 Potential Coupon Potential DC Current

Start date and time *
2013-11-04 00:00:00

End date and time *
2013-12-03 17:03:47

Please specify times in the time zone of the installation (UTC).

Graph Style
Presentation

Scale
Auto Scale

Graph

Readings for Test Station Culver City between 2013-11-04 00:00:00 UTC and 2013-12-03 17:03:47 UTC

Structure 1 Potential Structure 2 Potential Coupon Potential DC Current

Time (UTC)	Structure 1 Potential (V)	Structure 2 Potential (V)	Coupon Potential (V)	DC Current (A)
2013-11-04 00:00:00	0.036	0.012	0.006	0.000
2013-11-06 00:00:00	0.036	0.012	0.006	0.000
2013-11-08 00:00:00	0.036	0.012	0.006	0.000
2013-11-10 00:00:00	0.036	0.012	0.006	0.000
2013-11-12 00:00:00	0.036	0.012	0.006	0.000
2013-11-14 00:00:00	0.036	0.012	0.006	0.000
2013-11-16 00:00:00	0.036	0.012	0.006	0.000
2013-11-18 00:00:00	0.036	0.012	0.006	0.000
2013-11-20 00:00:00	0.036	0.012	0.006	0.000
2013-11-22 00:00:00	0.036	0.012	0.006	0.000
2013-11-24 00:00:00	0.036	0.012	0.006	0.000
2013-11-26 00:00:00	0.036	0.012	0.006	0.000
2013-11-28 00:00:00	0.036	0.012	0.006	0.000
2013-11-30 00:00:00	0.036	0.012	0.006	0.000
2013-12-02 00:00:00	0.036	0.012	0.006	0.000
2013-12-04 00:00:00	0.036	0.012	0.006	0.000

[Download graph as an image](#)

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4.6 View a Map of your Installations

You can locate all the installations of a project on a map using the coordinates set in the **Installation Details**.

To access the map go to **My Sections**, select the project and go to **View a map of installations**.

You can click on the icon to see installation details.

The screenshot shows the Borin Manufacturing, Inc. web application interface. At the top, there is a navigation menu with options: Home, My Profile, My Users, My Sections, My Templates, My Reports, Contact Us, Help, and Logout (Telmacom). Below the menu, there is a sidebar with options: View section summary, View a list of installations, Section readings, Reorder installations, Add installation, and View a list of sections. The main content area displays the title "Map Installations for Monitoreo Remoto O&M Sabana" and the location "Sta Rosa Tocancipa, Mansilla Puente Aranda, Monterrey Apiay, Bogotá, Cundinamarca, Colombia". Below the title, there is a map showing the Bogotá region with several installation locations marked by green and red pins. The map is powered by Leaflet and includes data from MapQuest, OpenStreetMap, and contributors under a CC-BY-SA license. The copyright notice at the bottom reads "Copyright © 2013 by BORIN".

4.7 Advanced Logging

To do any **Advanced logging** within the Data Center go to **My Sections**, select a project, select an installation, under **Readings** and click on **Advanced logging**. Once there you can transfer any of the readings you would like to the **Data Center Readings Archive**. You can also set the frequency of the readings, for example daily, weekly, monthly, etc.

The highest frequency in most cases must coincide with the automatic reading frequency, unless an authorized user has generated an advanced logging function.

CAUTION! Some transfers will incur in high volume bandwidth.

The screenshot shows the Borin Manufacturing, Inc. web application interface. The top navigation bar includes links for Home, My Profile, My Users, My Sections (selected), My Templates, My Reports, Contact Us, Help, and Logout (DemoUser). Below this is a secondary navigation bar with links for Details, Channels update, Readings (selected), Configuration, Alarms, History, Cyclic Interruption, Off Potential, and Section summary. The main content area is titled "Advanced Logging for Test Station Culver City" and shows "Demo Projects United States". A section titled "Transfer Readings from Test Station Culver City to the Data Center" contains a list of checkboxes for various data points: Select/Deselect All, Coupon Potential, DC Current, Structure 1 Potential, Coupon Off Potential, AC Coupon Potential, Structure 2 Potential, Native Coupon Potential, and AC Current Density. Below this, there are input fields for "Start date and time" (2013-11-04 19:06:23) and "End date and time" (2013-12-03 17:14:49), with a note to specify times in UTC. A "Select reading interval" dropdown is set to "All Readings". A summary line states: "This transfer will include 333,160 readings and use an estimated 1.9 MB of bandwidth". At the bottom of the form are "Recompute" and "Transfer" buttons. The footer of the page reads "Copyright © 2013 by BORIN".

5.0 Alarms Handling

5.1 Alarms in Data Center

You can see your alarm messages in 3 windows:

1. **Home page** includes the alarm messages for all the installations of all the projects.
2. **Channels Update** includes the alarm messages for the selected installation.
3. **Installation Alarms Log** includes the history of alarm messages for the selected installation.

Alarms should be cleared only when an action has been taken to correct the alarm state. A note of the action taken has to be entered in the system to enable alarm clear, for example “power is on after maintenance”. If the alarm is cleared but the variable is still in alarm status a new alarm will be generated.

To clear alarms go to **Home**, click on **You have X un-cleared alarms**, write actions taken and click on **Clear Alarms**.

The screenshot shows the Borin Manufacturing, Inc. web interface. At the top, there is a navigation menu with links: Home, My Profile, My Users, My Sections, My Templates, My Reports, Contact Us, Help, and Logout (DemoUser). Below the menu, the page title is "My Uncleared Alarms" and it indicates "Displaying 1-8 of 8 result(s)".

Section Name	Installation Name	Channel	Name	Type	Last Reading	Last Value	Range	Alarm Low	Alarm High	Alarm Triggered	Alarm Value	<input type="checkbox"/>	Action Taken
Demo Projects	10.64.0.22	27	Digital Control (27)	Digital Control	2013-09-20 15:01:46.962 EDT	Off		Set	Set	2013-09-20 15:01:46.962 EDT	Off	<input type="checkbox"/>	<input type="text"/>
Demo Projects	10.64.0.17	28	Digital Control (28)	Digital Control	2013-07-01 11:16:03.162 PDT	On				2013-09-17 14:55:04.921 PDT		<input type="checkbox"/>	<input type="text"/>
Demo Projects	10.64.0.17	27	Digital Control (27)	Digital Control	2013-07-01 11:16:02.931 PDT	Off				2013-09-17 14:55:03.944 PDT		<input type="checkbox"/>	<input type="text"/>
Demo Projects	10.64.0.17	26	Digital Control (26)	Digital Control	2013-07-01 11:16:02.700 PDT	Off				2013-09-17 14:55:02.967 PDT		<input type="checkbox"/>	<input type="text"/>
Demo Projects	10.64.0.17	25	Digital Control (25)	Digital Control	2013-07-01 11:16:02.469 PDT	On				2013-09-17 14:55:01.466 PDT		<input type="checkbox"/>	<input type="text"/>
Demo Projects	10.64.0.17	18	Analog Control (18)	Analog Control	2013-07-01 11:16:02.236 PDT	20	0 .. 100			2013-09-17 14:30:02.630 PDT		<input type="checkbox"/>	<input type="text"/>
Demo Projects	10.64.0.17	17	Analog Control (17)	Analog Control	2013-07-01 11:16:57.416 PDT	30.001	0 .. 100			2013-09-17 14:30:01.139 PDT		<input type="checkbox"/>	<input type="text"/>
Demo Projects	10.64.0.22	26	Digital Control (26)	Digital Control	2013-01-10 14:03:14.233 EST	On				2013-01-09 12:51:48.055 EST		<input type="checkbox"/>	<input type="text"/>

At the bottom of the table area, there is a button labeled "Clear Alarms".

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5.2 E-mail Alarms

Alarms will be sent by e-mail as per the parameters set at the **Device Settings** window.

To set e-mail configuration go to **My Sections**, select project, select installation, go to **Device settings**. Fill out the information and **Update Installation**.

Borin Manufacturing, Inc.

Home My Profile My Users My Sections My Templates My Reports Contact Us Help Logout (DemoUser)

Details Channels update Readings Configuration Alarms History Cyclic Interruption Off Potential Section summary

Settings for Test Station Culver City

Demo Projects
United States

[Change Network Settings](#)

Setting	Value	Help
Device Name	Test Station Culver City	The name used to identify this unit in alarm emails
Password	*****	The administrator password for accessing this unit
Alarm Email		The email address (or comma delimited list of addresses) that receive(s) notifications from this device
From Email		The "from" email address for email sent by this unit
SMTP Host		The mail server to use to deliver email alerts
Time Zone	UTC (2013-12-04 01:18:57)	Installation Time Zone
Startup Alerts?	<input type="checkbox"/> Yes	Send an Email when System Starts Up?
Latitude	33.9927	Installation Latitude (e.g., 33.9927)
Longitude	-118.3822	Installation Longitude (e.g., -118.3822)
Relay Before Read channel	None	Digital Control Channel to activate before polling

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5.3 Manage Hardware

CAUTION! Before you **Manage Hardware** make sure you understand the function you are attempting. Some of these management tools will delete historical data.

The **Manage Hardware** division allows you to run diagnostics on your **COMANCHE**, detect any updates or changes to the **COMANCHE** hardware or reset the software for that installation. By running diagnostics you can check to make sure your **COMANCHE** is connected accurately and transferring data as it should.

If for some reason you need to replace part of the **COMANCHE** unit you can update the hardware within the data center in order to get the new readings.

There are also a variety of reset options for the **COMANCHE** unit if you ever lose the configuration settings, and need to return the unit to its past form.

To manage your hardware go to **My Sections, Configuration** and select **Manage Hardware**.

The screenshot shows the Borin Manufacturing, Inc. web interface. The top navigation bar includes: Home, My Profile, My Users, My Sections, My Templates, My Reports, Contact Us, Help, and Logout (Telmacom). Below this is a secondary menu with: Details, Channels update, Readings, Configuration, Alarms, History, Cyclic Interruption, Off Potential, and Section summary. The main content area is titled "Reset Rio Bogota" and includes the following text:

Monitoreo Remoto O&M Sabana
Sta Rosa Tocancipa, Mansilla Puente Aranda, Monterrey Apiay, Bogotá, Cundinamarca, Colombia

There are several ways to manage significant changes to an installation. These are available below.

⚠ Please be sure to transfer all data from this installation before proceeding! [Click here to transfer](#)

Restore Installation Configuration from Data Center

This will replace any settings on the remote installation with the configuration details from the Data Center. Use this option if the installation hardware was reset and lost its configuration settings. This will remove all readings data from the installation.

[Restore Installation](#)

Replace Installation Configuration

You can replace a different installation's configuration with this installation's settings. You will need to provide the IP address of the target installation. This will remove all readings data from the target installation. The original hardware for this installation will no longer respond as this installation.

[Replace Installation](#)

Wipe Installation

Wiping an installation removes all configuration details and reading data from the remote unit. You can then re-use the hardware by commissioning it with the Data Center.

[Wipe Installation](#)

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