



# HTL SmartSign Portal

Version 1.0.3

## User Manual



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Email
Password
Login

# Welcome to the SmartSign Portal

The HTL SmartSign Portal is designed to simplify and improve the management of electronic road signs. This intuitive platform provides transportation authorities, city planners, and administrators with tools to efficiently update, monitor, and optimise electronic road signs, ensuring safer and more efficient traffic management.

## Key Features:

**Centralized Control:** Gain centralized control over an extensive network of electronic road signs. From a single interface, you can manage multiple signs across various locations, ensuring consistent and accurate messaging throughout your jurisdiction.

**Customized Scheduling:** Plan ahead with precision. Schedule automated updates for specific times, days, or recurring events, guaranteeing timely and relevant information delivery without manual intervention.

**Advanced Monitoring:** Monitor the status and performance of each electronic road sign in real time. Receive instant notifications and alerts for any technical issues, ensuring prompt maintenance and minimizing downtime.

**Data Insights:** Leverage valuable data insights to enhance road safety. Analyze traffic patterns, driver behaviour, to make informed decisions.

**User-Friendly Interface:** Our intuitive and user-friendly interface requires minimal training, making it accessible to a wide range of users. Effortlessly navigate through features and functionalities to maximize the portal's potential.

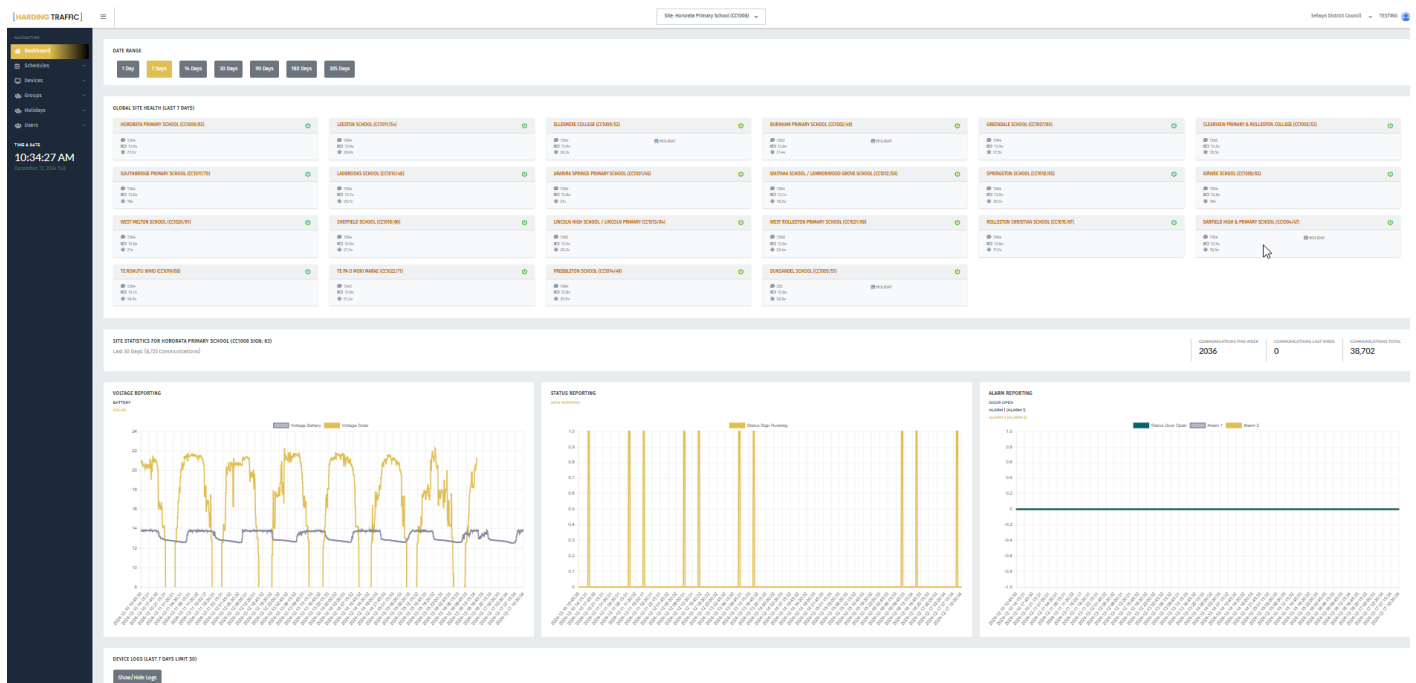
**Secure Access:** Rest assured knowing that your data is protected with robust security measures. User authentication and encryption protocols safeguard sensitive information and ensure authorized access only.

This system is only open to users who with rights to manage the devices, so only users with the correct account password can use it.

# Logging In

1. Open a browser and navigate to the SmartSign Portal: <https://smartsign.hardingtraffic.co.nz>
2. Enter your login credentials:
  - Username
  - Password
3. Click **Login**.
4. Upon successful login, you will be directed to the **Dashboard View**.

**Note:** If login details are incorrect, access will be denied, and you will see an error message.



# Dashboard Overview

The **Dashboard View** displays all signs assigned to your profile. It includes tools to:

- Define a date range for sign performance analysis.
- View sign details such as:



- Communication Status: An indicator displaying the amount of communication the sign has had.
- Battery Voltage: A reading indicating the current battery voltage
- Solar Voltage: A measurement showing the solar voltage if available
- Alarms: Alerts for operational issues (e.g., door opened).
- Holiday – Indicates when signs are set to non-operational schedules (e.g., school holidays).

The signs are programmed to perform regular check-ins every 15 minutes to retrieve sign data and adhere to updated schedules. Only sign-related alarms are recorded in real-time. This means that when the sign is activated, it will display immediately, and any instances of the sign door being opened will also trigger immediate notifications.

When the sign is online and powered, the Dashboard view will appear as follows.

WEST MELTON SCHOOL  
(CC1020/61)




1364

13.1v

19v

**Online and Powered:** The Dashboard shows a green icon.

AUCKLAND AIRPORT LSID  
(AK3000/74)




2

13.4v

18v

**Offline:** Indicates the sign is not communicating with the system but may still be operational locally.

WELBOURN SCHOOL (A1031/9)

 No Communications

To access a specific sign's details:

1. Click the **school block** or select the sign from the dropdown menu.
2. Define the date range to display performance data. Shorter date ranges show more detailed graphs.

Site: Frankley School (A1044)

Francis Douglas Memorial College (A1042)  
Frankley School (A1044)  
Highlands Intermediate School (A1076)  
Lepperton School (A1030)

DATE RANGE

1 Day

7 Days

14 Days

30 Days

90 Days

180 Days

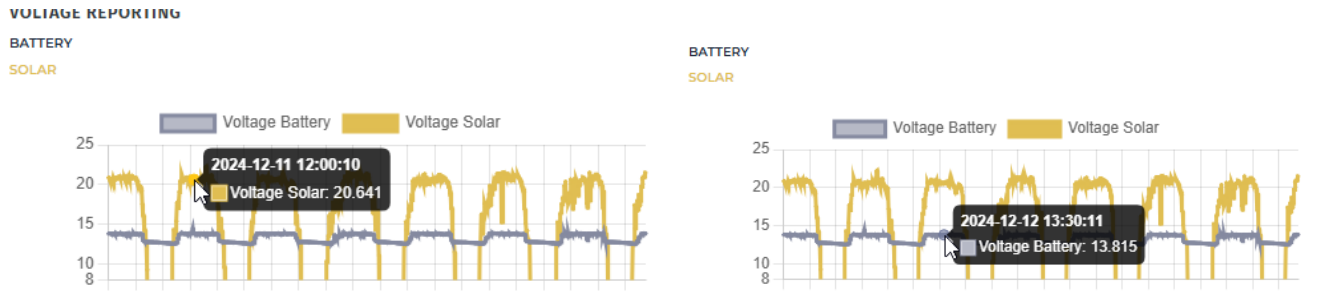
365 Days

# Reporting Features

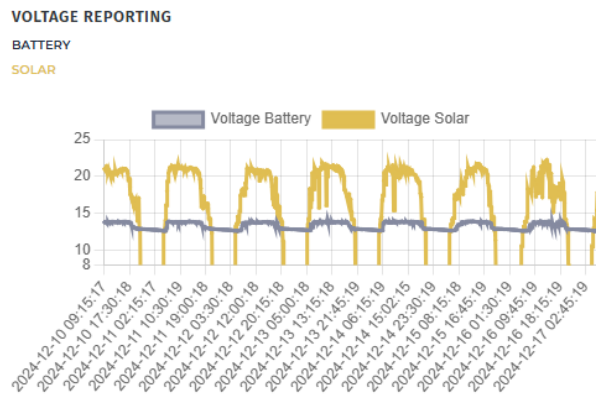
## Voltage Reporting

The **Voltage Reporting** screen provides insights into the sign's battery and solar power performance:

1. Navigate to the **Voltage Report** section.
2. Hover your mouse over the graph to display precise voltage values for battery and solar power at specific moments.
  - **Battery Voltage:** Shown as a grey line.
  - **Solar Voltage:** Displayed as a yellow line.



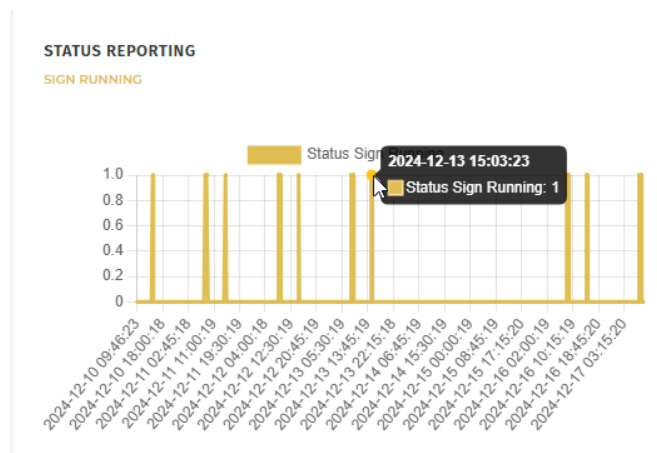
The system autonomously extracts data from the device's mainboard at regular intervals to ensure accurate information retrieval.



## Status Reporting

The **Status Reporting** screen allows you to monitor when the sign was operational:

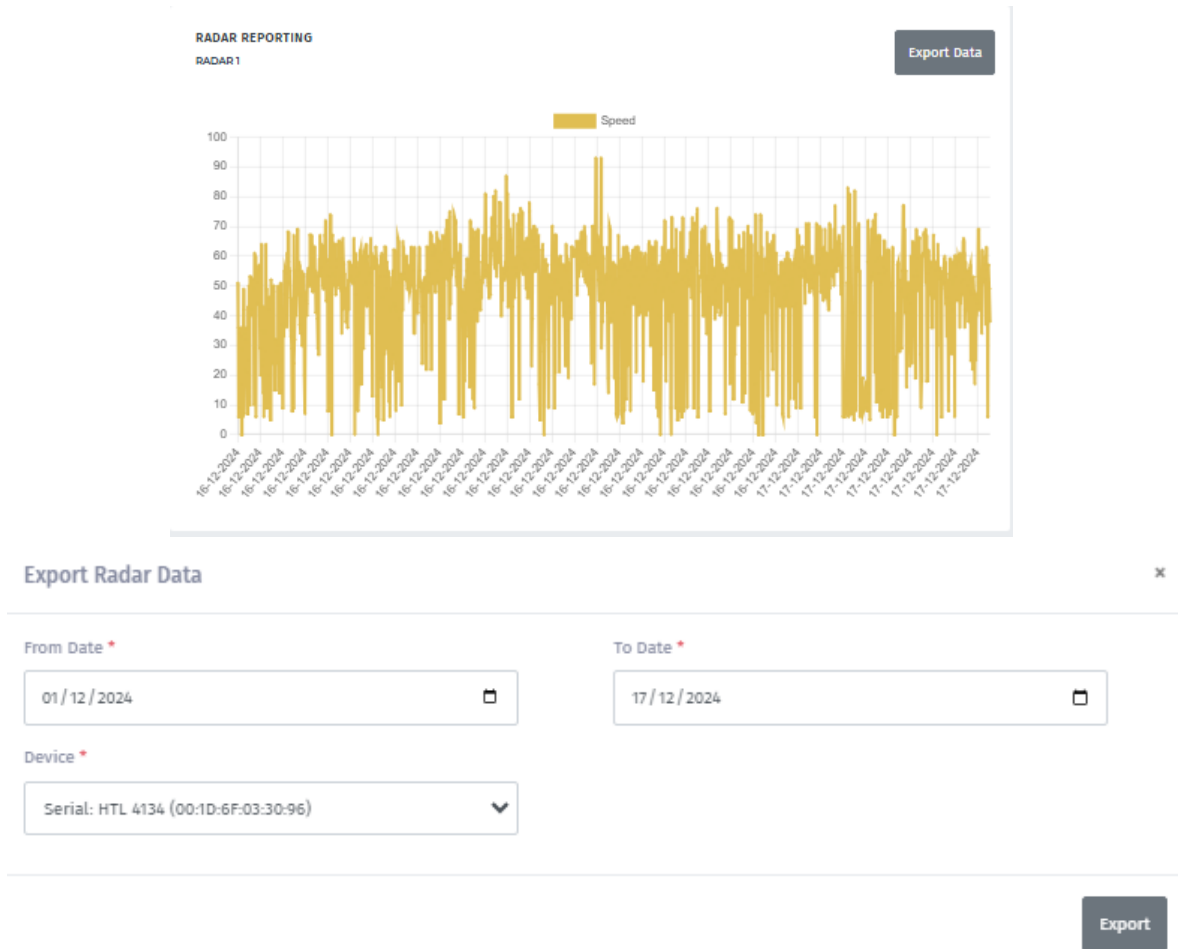
1. Access the **Status Report** section.
2. Hover over the graph to view exact times the sign was running.
  - Status is represented by a yellow bar indicating operational times.



## Radar Reporting

For signs equipped with radar capabilities:

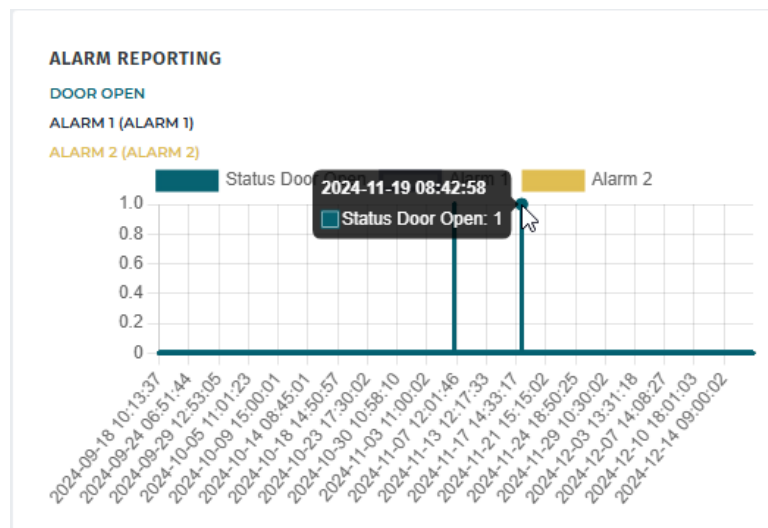
1. Navigate to the **Radar Report** section.
2. Download radar data by clicking the **Export Data** button.
3. Select the date range for the data to be exported to a CSV file.



## Alarm Reporting

The **Alarm Reporting** section displays all triggered alarms for a sign:

1. View alarms such as **door opened**
2. Hover over the alarm graph to see exact times when the alarm was triggered.




# Creating Schedules

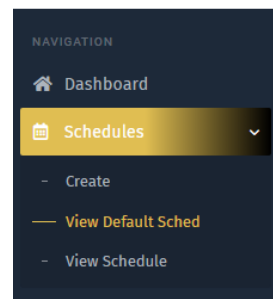




The initial schedule will come preloaded with predetermined on/off times based on the sign type. It's crucial to understand that the system will consistently return to the scheduled times defined in the default schedule.

## Default Schedules

1. Navigate to **Schedules > View Default Schedule**.
2. Click the **Edit**  icon to adjust the default on/off times.
3. Use the **+** button to add a time or the **-** button to remove it.
4. Ensure that you select the starting date (this will always start on a Monday)
5. Tick the Set as Default box
6. Save the changes and navigate back to the **View Schedule** screen to confirm updates.
7. The default schedule will appear on the calendar in Yellow.

[ **HARDING** TRAFFIC ]



Schedule (Default)							ID:172	 		
MON	TUE	WED	THU	FRI	SAT	SUN	ACTIVE	START DATE	CREATED	ENTRY USER
ON: 08:45 am	ON: 08:45 am	ON: 08:45 am	ON: 08:45 am	ON: 08:45 am			Active	2023-05-15	2023-05-15	Craig Vause
OFF: 09:15 am	OFF: 09:15 am	OFF: 09:15 am	OFF: 09:15 am	OFF: 09:15 am					10:47:07	
ON: 02:45 pm	ON: 02:45 pm	ON: 02:45 pm	ON: 02:45 pm	ON: 02:45 pm						
OFF: 03:15 pm	OFF: 03:15 pm	OFF: 03:15 pm	OFF: 03:15 pm	OFF: 03:15 pm						

**Editing Schedule (ID:8714)** Delete

MON

ON: 8:30 AM

OFF: 9:00 AM

ON: 2:45 PM

OFF: 3:15 PM

-

+

TUE

ON: 8:30 AM

OFF: 9:00 AM

ON: 2:45 PM

OFF: 3:15 PM

-

+

WED

ON: 8:30 AM

OFF: 9:00 AM

ON: 2:45 PM

OFF: 3:15 PM

-

+

THU

ON: 8:30 AM

OFF: 9:00 AM

ON: 2:45 PM

OFF: 3:15 PM

-

+

FRI

ON: 8:30 AM

OFF: 9:00 AM

ON: 2:45 PM

OFF: 3:15 PM

-

+

SAT

+

SUN

+

Starting Date (Monday) 2024-07-22 ☐ Set as Default Save Schedule

< DECEMBER 2024 >

MO	TU	WE	TH	FR	SA	SU
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

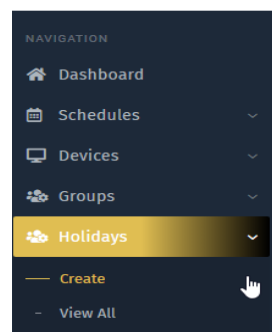
**Important Note:** Deleting the schedule in SmartSign will not render the sign non-operational. The sign retains a default schedule locally and checks into SmartSign every 15 minutes for any updates. Simply deleting the schedule in SmartSign will cause the sign to revert to its onboard default schedule. If you do not want the sign to operate, you must load a holiday schedule.

School holidays, teachers only days and Public Holidays can be incorporated by creating a Holiday Schedule.

## Creating Holiday Schedules

1. Go to **Holidays > Create**.
2. Enter the following details:
  - o **Holiday Name**
  - o **Start Date (From)** and **End Date (To)**
3. Tick the checkboxes for the sites to include in the holiday schedule.
4. Save the holiday schedule.
5. The holiday will appear on the calendar as a blackout period.

[ **HARDING** TRAFFIC ]



HOLIDAY	FROM	TO
Teachers Only Day	28/10/2024	28/10/2024

**Sites**

- ☐ Cromwell College / Cromwell Primary School
- ☒ Dunstan High School & The Terrace School
- ☒ Millers Flat School
- ☐ Omakau School
- ☐ Poolburn School
- ☐ St Johns

**Groups**

## Creating Custom Schedule

1. Navigate to **Schedules > Create**.
2. Use the + button to add a time or the - button to remove it.
3. A custom schedule can be used to switch the sign on for 10 minutes without altering the default schedule.  
**Note: If the custom schedule includes only one day, you must add the regular scheduled times for the rest of the week to maintain proper operation.**
4. If applying the schedule during the current week, select the relevant Monday.
5. **DO NOT** tick the default box
6. Save the changes and navigate back to the **View Schedule** screen to confirm updates.
7. The custom schedule will appear on the calendar in Green

It is important to note that the custom schedule is only valid for the week selected, the following week the sign will revert to its default schedule

## Schedule Overview

You can access a comprehensive calendar schedule overview by clicking on the "View Schedule" tab located on the left side of the screen.

<

>

today

December 2024

		Mon		Tue		Wed		Thu		Fri		Sat		Sun	
ON: 08:30 am OFF: 09:01 am ON: 02:45 pm OFF: 03:15 pm		25		26		27		28		29		30			
		ON: 08:30 am OFF: 09:00 am ON: 02:45 pm OFF: 03:15 pm		ON: 08:30 am OFF: 09:00 am ON: 02:45 pm OFF: 03:15 pm		ON: 08:30 am OFF: 09:00 am ON: 02:45 pm OFF: 03:15 pm		ON: 08:30 am OFF: 09:00 am ON: 02:45 pm OFF: 03:15 pm		ON: 08:30 am OFF: 09:00 am ON: 02:45 pm OFF: 03:15 pm		(OFF)		(OFF)	
		2		3		4		5		6		7			
ON: 08:30 am OFF: 09:01 am ON: 02:45 pm OFF: 03:15 pm		ON: 08:30 am OFF: 09:00 am ON: 02:45 pm OFF: 03:15 pm		ON: 08:30 am OFF: 09:00 am ON: 02:45 pm OFF: 03:15 pm		ON: 08:30 am OFF: 09:00 am ON: 02:45 pm OFF: 03:15 pm		ON: 08:30 am OFF: 09:00 am ON: 02:45 pm OFF: 03:15 pm		ON: 08:30 am OFF: 09:00 am ON: 02:45 pm OFF: 03:15 pm		(OFF)		(OFF)	
		9		10		11		12		13		14			
ON: 08:30 am OFF: 09:01 am ON: 02:45 pm OFF: 03:15 pm		ON: 08:30 am OFF: 09:00 am ON: 02:45 pm OFF: 03:15 pm		ON: 08:30 am OFF: 09:00 am ON: 02:45 pm OFF: 03:15 pm		ON: 08:30 am OFF: 09:00 am ON: 02:45 pm OFF: 03:15 pm		ON: 08:30 am OFF: 09:00 am ON: 02:45 pm OFF: 03:15 pm		ON: 08:30 am OFF: 09:00 am ON: 02:45 pm OFF: 03:15 pm		(OFF)		(OFF)	
		16		17		18		19		20		21		22	
ON: 08:30 am OFF: 09:01 am ON: 02:45 pm OFF: 03:15 pm		ON: 08:30 am OFF: 09:00 am ON: 12:00 pm OFF: 12:02 pm ON: 02:45 pm OFF: 03:15 pm		ON: 08:30 am OFF: 09:00 am ON: 02:45 pm OFF: 03:15 pm		ON: 08:30 am OFF: 09:00 am ON: 02:45 pm OFF: 03:15 pm		ON: 08:30 am OFF: 09:00 am ON: 02:45 pm OFF: 03:15 pm		ON: 08:30 am OFF: 09:00 am ON: 02:45 pm OFF: 03:15 pm		Summer Holidays			
		23		24		25		26		27		28		29	
		Christmas Eve		Christmas Day		Boxing Day									



Key: **Default Schedule**  
**Custom Schedule**  
**Holidays**  
**Google Calendar**

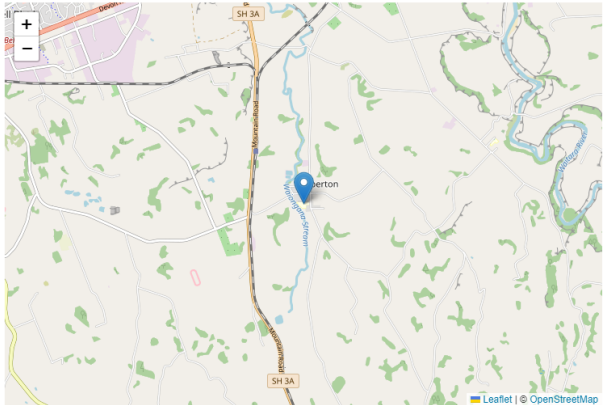
## Device Overview

1. Navigate to **Devices**.
2. View the list of devices, including:
  - **Serial Number**
  - **Device Location**

Site: Lepperton School (A1030) Sherise

Device Overview for Site A1030

SITE ID	A1030		
LOCATION	New Plymouth	LATITUDE *	-39.0623143
		LONGITUDE *	174.2090134
DEVICE SERIAL	HTL 5828	DEVICE MAC	9E:1D:3E:7F:A1:B1
ALARM 1 LABEL	Door	ALARM 1 ACTIVE	<input checked="" type="checkbox"/>
ALARM 2 LABEL	Alarm 2	ALARM 2 ACTIVE	<input type="checkbox"/>
SOLAR EQUIPPED	<input checked="" type="checkbox"/>	RADAR EQUIPPED	<input type="checkbox"/>



## User Management

### Creating Users

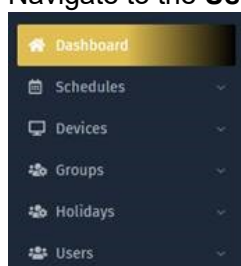
1. Select the appropriate school/site from the dropdown list.

Site: Geraldine High School (A1053) ▼

- Geraldine High School (A1053)
- Grantlea Downs School (A1055)
- Winchester Rural School (A1066)
- Woodbury School (A1067)

90 Days 180 Days

2. Navigate to the **Users** tab and click **Create**.



3. Enter the following details:

- **Username**
- **Password**
- **Permissions:**
  - **Read:** Users can view but cannot edit or create new accounts.
  - **Write:** Users can create and manage other users.

FIRST NAME	LAST NAME															
<input type="text"/>	<input type="text"/>															
EMAIL																
<input type="text"/>																
PASSWORD	CONFIRM PASSWORD															
<input type="text"/>	<input type="text"/>															
<div>Create User</div>																
		<div>SITE PERMISSIONS</div> <table border="0"> <thead> <tr> <th>SITE</th> <th>NONE</th> <th>READ</th> <th>WRITE</th> </tr> </thead> <tbody> <tr> <td>*** Restricted Site Zulu***</td> <td><input checked="" type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> </tr> <tr> <td>Test</td> <td><input type="radio"/></td> <td><input checked="" type="radio"/></td> <td><input type="radio"/></td> </tr> </tbody> </table> <div>Save Permissions</div>			SITE	NONE	READ	WRITE	*** Restricted Site Zulu***	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Test	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
SITE	NONE	READ	WRITE													
*** Restricted Site Zulu***	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>													
Test	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>													

4. Save the user account and share the login details with the user.

For further assistance, please contact the HTL Support Team:

- **Email:** [service@hardingtraffic.co.nz](mailto:service@hardingtraffic.co.nz)
- **Phone:** 0800-427-346