

WEB APPLICATION INSTRUCTION MANUAL



Issue 7.0

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INTRODUCTION

The Automotor Web Application provides multiple users with real time updates of the intersections remotely connected to the Automotor Instation Server. The location of each intersection, and its current status, can be viewed graphically by the Web Application using Google Maps. The events pertaining to an intersection, within a specified period, can be viewed. Detailed reports about the intersections and their events can be generated on demand.

Working hand-in-hand with the Automotor Instation Server, the Automotor Web Application provides information regarding only those intersections listed in the Instation Server's database. Updates made to the Instation Server will be reflected in the Web Application in real time.

USER ACCESS

The Automotor Web Application is not freely available to the public. Each user must be registered on the system to use the Web Application.

NEW USER: ACCOUNT CONFIRMATION AND PASSWORD UPDATING

It is the responsibility of the Administrator to register a new user, after which the user will receive an Email which requires user action (Refer to Figure 1).

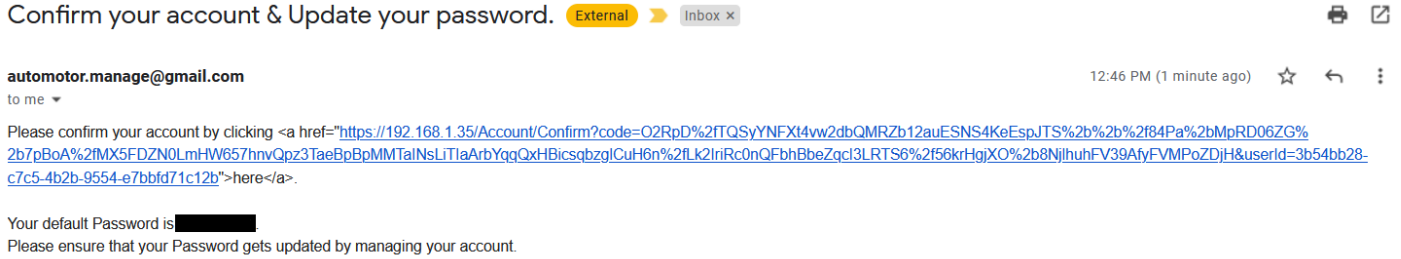


Figure 1: Confirm your account & update your password email.

A user will be denied access to the Web Application until their account has been confirmed. Clicking on the link provided within the Email confirms that a user’s account is correct. The user will be redirected to the *Account Confirmation* page after successful confirmation (Refer to Figure 2).



ACCOUNT CONFIRMATION

Thank you for confirming your account. Click [here](#) to login.

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Figure 2: Account confirmation.

Thereafter a user may log in to the Web Application by clicking on the *here* link provided on the *Account Confirmation* page. Should this page be closed prior to clicking on the link, the user may browse to the Web Application’s respective IP address or hostname. A user must use their Email address and the *default* Password provided within the confirmation Email to log in to the Web Application (Refer to LOGGING IN).

After logging in, it is the responsibility of the user to update their password from the *default* Password provided within the confirmation Email, to a safe and secure password for future use of the Web Application (Refer to CHANGE YOUR PASSWORD).

LOGGING IN

A user logs in to the Web Application by simply entering their Email address and Password and clicking on *Log In* (Refer to Figure 3).

PLEASE LOG IN

Email

Password



Remember me?

LOG IN

[Forgot your password?](#)

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Figure 3: Logging in.

CHANGE YOUR PASSWORD

A user can change their password by selecting *Manage Your Account* (Refer to Figure 4) and clicking on the *Change Password* link (Refer to Figure 5).

MANAGE YOUR ACCOUNT

LOG OFF

INTERSECTIONS

Figure 4: Manage your account.

MANAGE ACCOUNT

[\[Change Password\]](#)

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Figure 5: Change password link.

Change a user's password by entering the current password and a safe and secure new password. Confirm the new password by entering the safe and secure password again and clicking on *Change Password* (Refer to Figure 6).

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HOME CONTACT

CONNECTIVITY REPORTS ▾ KIRSTY.EELDERS@GMAIL.COM ▾

MANAGE PASSWORD

Current password

New password

Confirm new password

CHANGE PASSWORD

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Figure 6: Change password.

A message will be displayed after successfully changing the user's password (Refer to Figure 7).

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HOME CONTACT

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MANAGE ACCOUNT

Your password has been changed.

[\[Change Password\]](#)

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Figure 7: Password changed successfully.

LOGGING OFF

A user logs off from the Web Application by selecting *Log Off* (Refer to Figure 8).

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HOME CONTACT

CONNECTIVITY REPORTS ▾ KIRSTY.EELDERS@GMAIL.COM ▾

INTERSECTIONS

MANAGE YOUR ACCOUNT

LOG OFF

Figure 8: Logging off.

AUTOMATIC USER LOG OFF

A user will be automatically logged off from the Web Application (Refer to Figure 8) when the Web Application is unused for a period of 20 minutes. Clicking on the *Take me to Log In...* link will take a user to the log page (Refer to Figure 3) where the user may log in once again.

YOU HAVE BEEN AUTOMATICALLY LOGGED OUT

[Take me to Log In...](#)

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Figure 9: Automatic User Log off.

FORGOT YOUR PASSWORD?

If a user has forgotten their password, they should click on the *Forgot your password?* link (Refer to Figure 10). After being redirected to the *Forgot Password* page, a user must enter their Email address and click on *Email Link* (Refer to Figure 11) to begin resetting their password.

PLEASE LOG IN

Email

Password



Remember me?

LOG IN

[Forgot your password?](#)

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Figure 10: Forgot your password link.

FORGOT PASSWORD

Email

EMAIL LINK

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Figure 11: Email link.

The user should then click on the link provided within the Email sent to the user's Email account (Refer to Figure 12), after which the user will be redirected to the *Reset Password* page (Refer to Figure 13). Reset a user's password by entering the user's Email address and a safe and secure new password. Confirm the new password by entering the safe and secure password again and clicking on *Reset*.

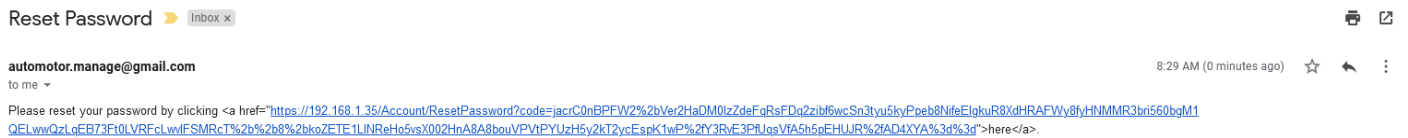


Figure 12: Reset password link.

RESET PASSWORD

Email

New password

Confirm new password

RESET

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Figure 13: Reset password.

Once the password has been changed, a user may log in to the Web Application by clicking on the *here* link provided on the *Password Changed* page (Refer to Figure 14). Should this page be closed prior to clicking on the link, the user may browse to the Web Application's respective IP address or hostname. A user must use their Email address and the new Password to log in to the Web Application (Refer to LOGGING IN).

PASSWORD CHANGED

Your password has been changed. Click [here](#) to login.


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Figure 14: Password changed.

INTERSECTIONS









Once a user is logged in (Refer to LOGGING IN) to the Automotor Web Application, the *Home* page will display a list of the intersections stored on the Automotor Instation Server (Refer to Figure 15). To ensure that the Web Application provides the user with real time changes, the page will be refreshed every 30 seconds. A count down to the refreshing of the page is displayed in the bottom right-hand corner.

INTERSECTIONS

 [Graphical View](#)

GO!

Search...

Status	Region	Int No	Primary Street	Secondary Street	Controller Model	IP Address	
	A	5	AMR Test	Intersection	Type UA	10.4.80.5	Select
	R	1	Test	Intersection	ESA 22 / ESA 32		Select
	R	2	TYPEA RD	TYPEB RD	Type UA		Select
	R	3	Tramway St	Main St	ESA 22 / ESA 32	10.4.56.3	Select
	R	25	Commissioner St	John Page Dr	ESA 22 / ESA 32	10.4.82.20	Select
	R	26	Third between Ninth	Carlmarie (MBC)	ESA 22 / ESA 32	10.4.56.0	Select
	R	28	OXFORD RD	FEDERATION RD	Type UA	10.4.81.31	Select
	R	41	BEYERS NAUDE DR	JOHN ADAMSON DR	Type UA	10.4.81.41	Select

1 2 3 4 5 6 7 8 9 10 ...

Intersections 1 through to 8 out of 443

Page Size:


8

 Refreshing in 26...

Figure 15: Intersections.

INTERSECTION PAGES

A large list of intersections will be displayed over multiple pages with a default *Page Size* of 25 rows each. View each page by clicking on the page link listed below the last intersection. If you are unhappy with the *Page Size*, change it by entering a value between 1 and 100 (Refer to Figure 16).



[HOME](#) [CONTACT](#)

[CONNECTIVITY](#) [REPORTS](#) KIRSTY@AUTOMOTOR.CO.ZA

	R	469	Bree St	Quinn St	ESA 22 / ESA 32	10.4.81.198	Select
	R	471	LILIAN NGOYI ST (BREE ST)	BURGHERSDORP ST	Type UA	10.4.80.39	Select
	R	489	RISSIK ST	PRITCHARD ST	Type UA	10.4.82.31	Select
	R	490	COMMISSIONER ST	BETTY ST	Type UA	10.4.67.56	Select
	R	498	Marshall between Boom	Kerk (MBC)	ESA 22 / ESA 32		Select
	R	503	JULES ST	FIRST ST	Type UA	10.4.60.88	Select
	R	508	DOUGLAS DR	GALLOWAY AVE	Type UA	10.4.81.102	Select
	R	510	Columbine Ave	Maritz St	ESA 22 / ESA 32	10.4.49.235	Select
	R	531	St Andrews Rd	St Davids Pl	ESA 22 / ESA 32	10.4.55.236	Select
	R	534	Queen St	Cumberland Rd	ESA 22 / ESA 32	10.4.61.239	Select
	R	536	Peter Pl	Brian St	ESA 22 / ESA 32	10.4.48.108	Select
	R	537	Cumberland Rd between Queen	Protea St (MBC)	ESA 22 / ESA 32	10.4.55.220	Select

1
2
3
4
5

Intersections 1 through to 100 out of 443

Page Size:


Refreshing in 20...

Figure 16: Changing the intersections page size.

SEARCHING THE INTERSECTIONS

When looking for a specific intersection, simply use the search engine provided in the top right-hand corner. Enter the search criteria and click on *Go!*. A comprehensive list of those intersections matching the search criteria will be displayed (Refer to Figure 17). To return to the original, unfiltered list of intersections, click on the *Unfilter...* link above the search engine.

INTERSECTIONS

 Graphical View

[Unfilter...](#)
GO!









Status	Region	Int No	Primary Street	Secondary Street	Controller Model	IP Address	
	R	41	BEYERS NAUDE DR	JOHN ADAMSON DR	Type UA	10.4.81.41	Select
	R	55	BEYERS NAUDE DR	MENDELSSOHN RD	Type UA	10.4.66.161	Select
	R	225	BEYERS NAUDE DR	WESTPARK RD	Type UA	10.4.82.200	Select
	R	227	BEYERS NAUDE DR	THOMAS BOWLER ST	Type UA	10.4.80.142	Select
	R	231	BEYERS NAUDE DR	JUDITH RD	Type UA	10.4.62.119	Select
	R	1189	BEYERS NAUDE DR	N1 N ON/OFF RAMP	Type UA	10.4.67.37	Select
	R	1191	BEYERS NAUDE DR	CASLEHILL DR / JUDGES AVE	Type UA	10.4.60.204	Select

Figure 17: Intersection search.

SORTING THE INTERSECTION COLUMNS

By default, the list of intersections is displayed according to their *Region* and *Intersection Number* (alphabetically / numerically in ascending order). To re-sort the list of intersections, simply click on a column header (excluding the *Status* column). Clicking on a column header the first time will sort the list alphabetically / numerically in ascending order (Refer to Figure 18). Clicking on a column header the second time will sort the list alphabetically / numerically in descending order (Refer to Figure 19). Any conflicts will be resolved according to the *Region* and *Intersection Number* (alphabetically / numerically in ascending order).

INTERSECTIONS

 [Graphical View](#)

GO!

Status	Region	Int No	Primary Street	Secondary Street	Controller Model	IP Address	
	R	1	Test	Intersection	ESA 22 / ESA 32		Select
	R	3	Tramway St	Main St	ESA 22 / ESA 32	10.4.56.3	Select
	R	25	Commissioner St	John Page Dr	ESA 22 / ESA 32	10.4.82.20	Select
	R	26	Third between Ninth	Carlmarie (MBC)	ESA 22 / ESA 32	10.4.56.0	Select
	R	42	Barry Hertzog Ave	Greenhill Rd	ESA 22 / ESA 32	10.4.81.92	Select
	R	54	Main Reef Rd	Serfontein St / King	ESA 22 / ESA 32	10.4.81.174	Select
	R	59	South Rand Rd	Johan Meyer / Plinlimmon	ESA 22 / ESA 32	10.4.60.85	Select
	R	61	Barry Hertzog Ave	Rustenburg Rd / Tana Rd	ESA 22 / ESA 32	10.4.82.164	Select

1 2 3 4 5 6 7 8 9 10 ...


Intersections 1 through to 8 out of 443

Page Size:









 Refreshing in 25...

Figure 18: Sort according to Controller Model in ascending order.

INTERSECTIONS

 [Graphical View](#)

GO!

Status	Region	Int No	Primary Street	Secondary Street	Controller Model	IP Address	
	A	5	AMR Test	Intersection	Type UA	10.4.80.5	Select
	R	2	TYPEA RD	TYPEB RD	Type UA		Select
	R	28	OXFORD RD	FEDERATION RD	Type UA	10.4.81.31	Select
	R	41	BEYERS NAUDE DR	JOHN ADAMSON DR	Type UA	10.4.81.41	Select
	R	50	NTEMI PILISO ST	KERK ST	Type UA	10.4.80.27	Select
	R	55	BEYERS NAUDE DR	MENDELSSOHN RD	Type UA	10.4.66.161	Select
	R	172	CONRAD DR	STANDARD DR	Type UA	10.4.67.81	Select
	R	179	CONRAD DR	BARKSTON DR	Type UA	10.4.80.242	Select

1 2 3 4 5 6 7 8 9 10 ...

Intersections 1 through to 8 out of 443

Page Size:

 Refreshing in 26...

Figure 19: Sort according to Controller Model in descending order.

GRAPHICAL VIEW OF INTERSECTIONS

A graphical view of the list of intersections will be provided when clicking on the *Graphical View* link in the top left-hand corner of the page. The user will be redirected to the *Map* page (Refer to Figure 20) which identifies the location of each intersection together with its current status, as specified by the *Legend*. To refresh the state of the intersections, click on the *Refresh* button in the bottom right-hand corner of the page. Hover over an intersection's dropped pin to identify the intersection (Refer to Figure 21).

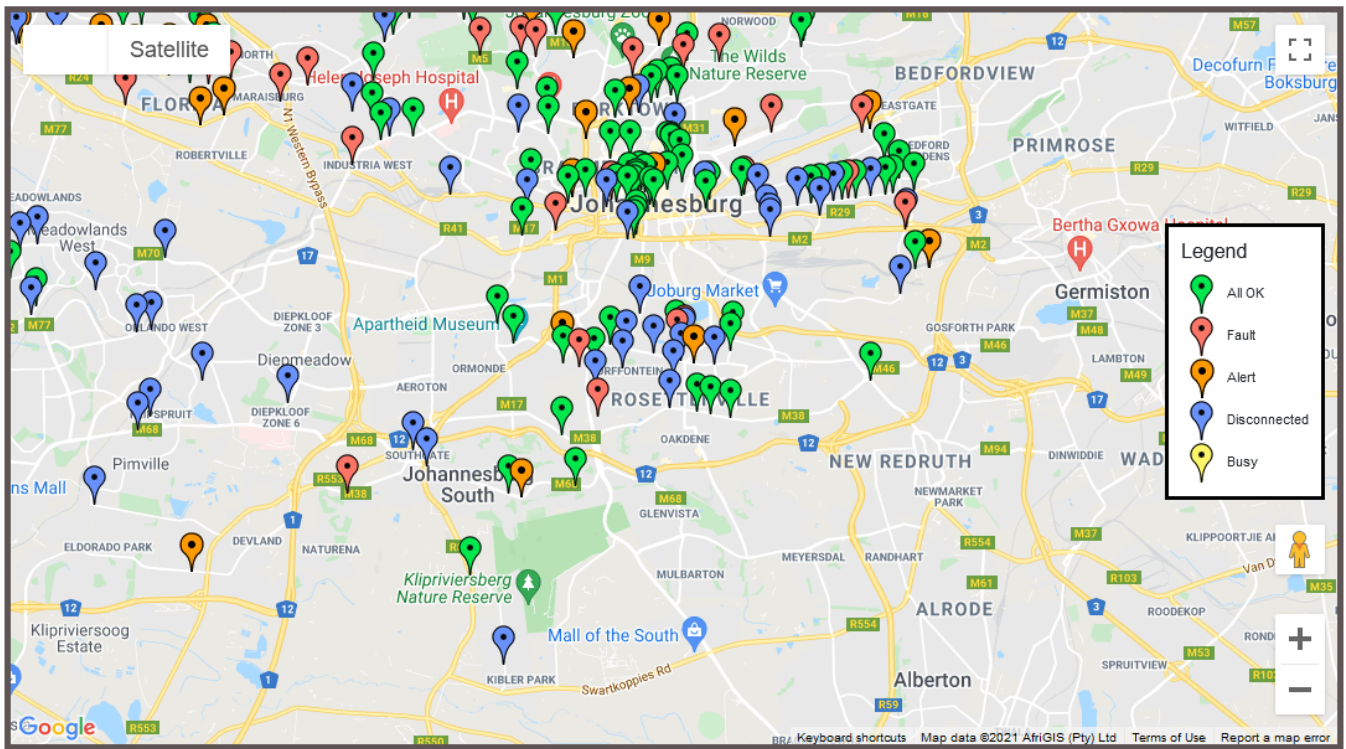
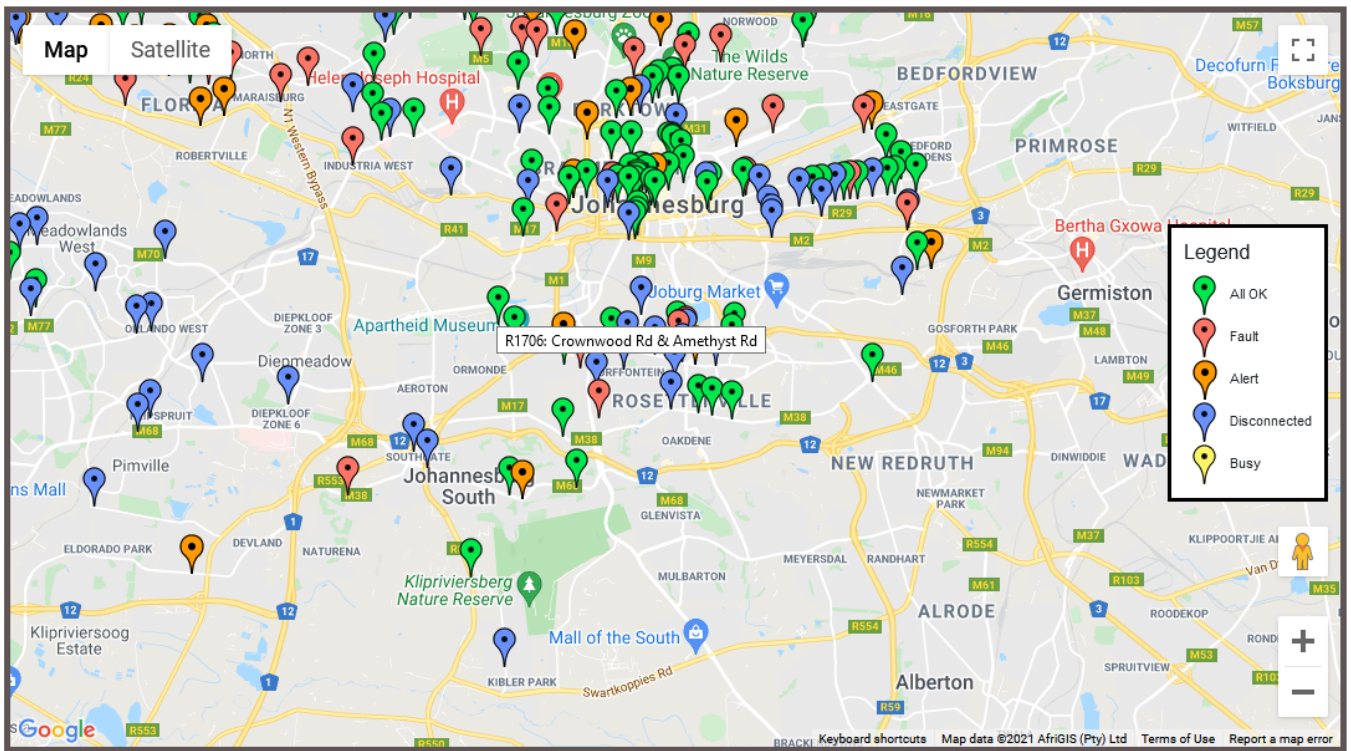


Figure 20: Graphical view of intersections.



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Figure 21: Intersection identification.

INTERSECTION EVENTS

The events of a specific intersection can be viewed in two ways:

1. After locating the intersection in the list, click on the *Select* link in the last column (Refer to Figure 22).
2. After locating the intersection in the graphical view, click on the intersection's dropped pin (Refer to Figure 23).


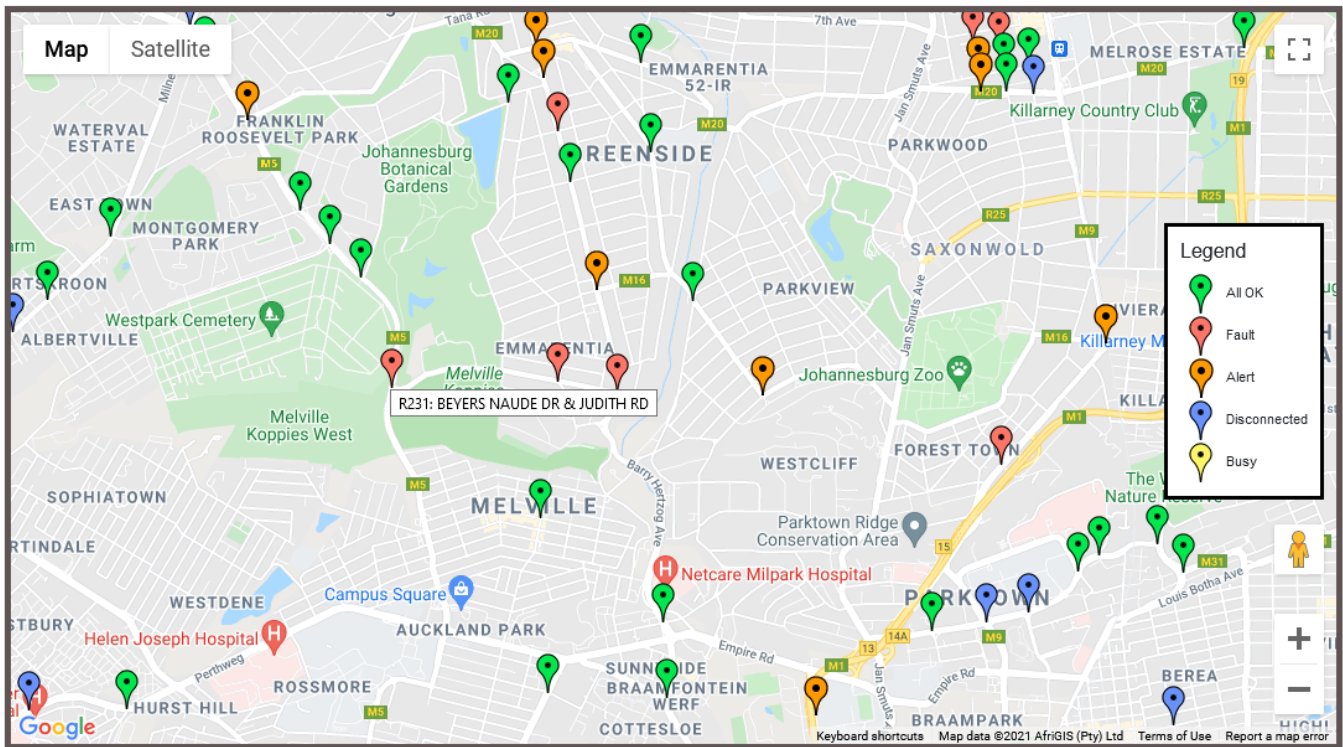
	R	231	BEYERS NAUDE DR	JUDITH RD	Type UA	10.4.62.119	Select
---	---	-----	-----------------	-----------	---------	-------------	------------------------

Figure 22: Selecting Beyers Naude Dr and Judith Rd events from the list.




 Refresh

Figure 23: Selecting Beyers Naude Dr and Judith Rd events from the map view.

The selected intersection's list of events within the last 24 hours will be displayed on the *Events* page (Refer to Figure 24). To ensure that the Web Application provides the user with real time changes, the page will be refreshed every 30 seconds. A count down to the refreshing of the page is displayed in the bottom right-hand corner (Refer to Figure 25).

EVENTS FOR THE INTERSECTION OF R231: BEYERS NAUDE DR / JUDITH RD

 [Locate Intersection](#)

GO!

EVENT FILTERS:

Events From Date:

Events To Date:

- Mains Failure
- Circuit Breaker Tripped
- Auxiliary Failure
- Emergency Flashing
- Detector Faults

- Door Open Alerts
- Manual Control On Alerts
- Synchronisation Faults
- Pushbutton Faults

- Police Switch On Alerts
- Forced Plan Alerts
- Data Uploads
- Data Downloads

- Reset RTC
- Normal Operation
- Amber Faults
- Pedestrian Faults



Date and Time	Event Description	Plan	Controller Status
2021/08/16 16:20:15	Report - WARNING	Plan 2	Mains On ✓
2021/08/16 16:20:09	Report - WARNING	Plan 2	Circuit Breaker On ✓
2021/08/16 16:14:17	Report - WARNING	Plan 2	Emergency Flashing Off ✓
2021/08/16 16:07:48	Connected To Server - WARNING	Plan 2	Detectors OK ✓
2021/08/16 14:25:20	Report - Controller in ERROR State	Plan 3	Door Open ⚠
2021/08/16 14:24:33	Connected To Server - Controller in ERROR State	Plan 3	Manual Control Off ✓
			Synchronisation OK ✓
			Pushbuttons OK ✓
			Police Switch Off ✓
			Ambers OK ✓
			Pedestrian Faults ⚠

Figure 24: The events for Beyers Naude Dr and Judith Rd.

- Mains Failure
- Door Open Alerts
- Police Switch On Alerts
- Reset RTC
- Circuit Breaker Tripped
- Manual Control On Alerts
- Forced Plan Alerts
- Normal Operation
- Auxiliary Failure
- Synchronisation Faults
- Data Uploads
- Amber Faults
- Emergency Flashing
- Pushbutton Faults
- Data Downloads
- Pedestrian Faults
- Detector Faults



Date and Time	Event Description	Plan
2021/08/16 09:31:34	Connected To Server - Controller in ERROR State	Plan 3
2021/08/15 17:49:16	Report - Controller in ERROR State	Plan 3
2021/08/15 14:59:11	Connected To Server - Controller in ERROR State	Plan 3
2021/08/15 12:34:11	Connected To Server - Controller in ERROR State	Plan 3
2021/08/15 12:24:21	Connected To Server - Controller in ERROR State	Plan 3
2021/08/15 10:11:28	Connected To Server - Controller in ERROR State	Plan 3

Controller Status	
Mains On	✓
Circuit Breaker On	✓
Emergency Flashing On	✗
Detectors OK	✓
Door Closed	✓
Manual Control Off	✓
Synchronisation Failed	✗
Pushbuttons OK	✓
Police Switch Off	✓
Ambers OK	✓
Pedestrians OK	✓

Events 1 through to 6 out of 6

Page Size:

10

Faulty Phases			
A	E	I	M
B	F ✗	J	N
C	G	K	O
D	H	L	P

Generate Report


Refreshing in 27...

Figure 25: Events refresh.

EVENT PAGES

A large list of events will be displayed over multiple pages with a default *Page Size* of 50 rows each. View each page by clicking on the page link listed below the last event. If you are unhappy with the *Page Size*, change it by entering a value between 1 and 100 (Refer to Figure 26).

EVENTS FOR THE INTERSECTION OF R231: BEYERS NAUDE DR / JUDITH RD

 [Locate Intersection](#)

GO!

EVENT FILTERS:

Events From Date: Events To Date:

- Mains Failure
- Circuit Breaker Tripped
- Auxiliary Failure
- Emergency Flashing
- Detector Faults
- Door Open Alerts
- Manual Control On Alerts
- Synchronisation Faults
- Pushbutton Faults
- Police Switch On Alerts
- Forced Plan Alerts
- Data Uploads
- Data Downloads
- Reset RTC
- Normal Operation
- Amber Faults
- Pedestrian Faults



Date and Time	Event Description	Plan
2021/08/16 16:20:15	Report - WARNING	Plan 2
2021/08/16 16:20:09	Report - WARNING	Plan 2

1 2 3 4 5 6 7 8 9 10

Events 1 through to 2 out of 20

Page Size:

Controller Status	
Mains On	✓
Circuit Breaker On	✓
Emergency Flashing Off	✓
Detectors OK	✓
Door Open	⚠
Manual Control Off	✓
Synchronisation OK	✓
Pushbuttons OK	✓
Police Switch Off	✓
Ambers OK	✓

Figure 26: Changing the events page size.

EVENT FILTERS

Events may be filtered using the *Event Filters* section. A complete list of filters will be provided for controllers (Refer to Figure 27), solar warning flashers (Refer to Figure 28) and mains warning flashers (Refer to Figure 29), depending on which model is selected. By default, a time frame with the last 24 hours will be selected and all event types will be selected. Changing the *Events From Date* and *Events To Date* will list all events within that time frame. Clear all event types by clicking on the “empty box” on the bottom right-hand side of the *Event Filters* (Refer to Figure 30). Select all event types by clicking on the “ticked box” on the top right-hand side of the *Event Filters*. Select i.e., tick, or deselect i.e., untick, a specific event to filter the events list even further (Refer to Figure 31).

EVENT FILTERS:

Events From Date:	Events To Date:		
<input type="text" value="2021/08/15"/>	<input type="text" value="2021/08/16"/>		
<input checked="" type="checkbox"/> Mains Failure	<input checked="" type="checkbox"/> Door Open Alerts	<input checked="" type="checkbox"/> Police Switch On Alerts	<input checked="" type="checkbox"/> Reset RTC
<input checked="" type="checkbox"/> Circuit Breaker Tripped	<input checked="" type="checkbox"/> Manual Control On Alerts	<input checked="" type="checkbox"/> Forced Plan Alerts	<input checked="" type="checkbox"/> Normal Operation
<input checked="" type="checkbox"/> Auxiliary Failure	<input checked="" type="checkbox"/> Synchronisation Faults	<input checked="" type="checkbox"/> Data Uploads	<input checked="" type="checkbox"/> Amber Faults
<input checked="" type="checkbox"/> Emergency Flashing	<input checked="" type="checkbox"/> Pushbutton Faults	<input checked="" type="checkbox"/> Data Downloads	<input checked="" type="checkbox"/> Pedestrian Faults
<input checked="" type="checkbox"/> Detector Faults			







Figure 27: Event filters for controllers.

EVENT FILTERS:



Events From Date:	Events To Date:
<input type="text" value="2021/11/28"/>	<input type="text" value="2021/11/29"/>
<input checked="" type="checkbox"/> One Flasher Off Alerts	<input checked="" type="checkbox"/> Data Uploads
<input checked="" type="checkbox"/> All Flashers Off Faults	<input checked="" type="checkbox"/> Data Downloads
<input checked="" type="checkbox"/> Door Open Alerts	<input checked="" type="checkbox"/> Normal Operation





Refreshing in 14...

Figure 28: Event filters for solar warning flashers.

EVENT FILTERS:

Events From Date:	Events To Date:
<input type="text" value="2023/10/15"/> 	<input type="text" value="2023/10/16"/> 
<input checked="" type="checkbox"/> Mains Failure	<input checked="" type="checkbox"/> Data Uploads
<input checked="" type="checkbox"/> One Flasher Off Alerts	<input checked="" type="checkbox"/> Data Downloads
<input checked="" type="checkbox"/> All Flashers Off Faults	<input checked="" type="checkbox"/> Normal Operation
<input checked="" type="checkbox"/> Door Open Alerts	



Refreshing in 27...

Figure 29: Event filters for mains warning flashers.

EVENT FILTERS:

Events From Date:

2021/08/15

Events To Date:

2021/08/16

- | | | | |
|--|---|--|--|
| <input type="checkbox"/> Mains Failure | <input type="checkbox"/> Door Open Alerts | <input type="checkbox"/> Police Switch On Alerts | <input type="checkbox"/> Reset RTC |
| <input type="checkbox"/> Circuit Breaker Tripped | <input type="checkbox"/> Manual Control On Alerts | <input type="checkbox"/> Forced Plan Alerts | <input type="checkbox"/> Normal Operation |
| <input type="checkbox"/> Auxiliary Failure | <input type="checkbox"/> Synchronisation Faults | <input type="checkbox"/> Data Uploads | <input type="checkbox"/> Amber Faults |
| <input type="checkbox"/> Emergency Flashing | <input type="checkbox"/> Pushbutton Faults | <input type="checkbox"/> Data Downloads | <input type="checkbox"/> Pedestrian Faults |
| <input type="checkbox"/> Detector Faults | | | |



Refreshing in 28...

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Figure 30: Cleared event filters.

EVENTS FOR THE INTERSECTION OF R231: BEYERS NAUDE DR / JUDITH RD

[Locate Intersection](#)

GO! Intersection Search...

EVENT FILTERS:

Events From Date:

2021/08/15

Events To Date:

2021/08/16

- | | | | |
|--|--|--|--|
| <input type="checkbox"/> Mains Failure | <input checked="" type="checkbox"/> Door Open Alerts | <input type="checkbox"/> Police Switch On Alerts | <input type="checkbox"/> Reset RTC |
| <input type="checkbox"/> Circuit Breaker Tripped | <input type="checkbox"/> Manual Control On Alerts | <input type="checkbox"/> Forced Plan Alerts | <input type="checkbox"/> Normal Operation |
| <input type="checkbox"/> Auxiliary Failure | <input type="checkbox"/> Synchronisation Faults | <input type="checkbox"/> Data Uploads | <input type="checkbox"/> Amber Faults |
| <input type="checkbox"/> Emergency Flashing | <input type="checkbox"/> Pushbutton Faults | <input type="checkbox"/> Data Downloads | <input type="checkbox"/> Pedestrian Faults |
| <input type="checkbox"/> Detector Faults | | | |



Date and Time	Event Description	Plan
2021/08/16 16:20:15	Report - WARNING	Plan 2
2021/08/16 16:20:09	Report - WARNING	Plan 2

1 2 3 4 5 6 7 8 9

Controller Status	
Mains On	✓
Circuit Breaker On	✓
Emergency Flashing Off	✓
Detectors OK	✓
Door Open	⚠
Manual Control Off	✓
Synchronisation OK	✓
Pushbuttons OK	✓
Police Switch Off	✓
Ambers OK	✓


Events 1 through to 2 out of 18

Page Size:

Figure 31: Door open events.

EVENT SELECTION & VISUALISATION

By default, the first event in the list will be selected i.e., highlighted yellow. Select a different event by clicking on the event or by using the up and down arrow keys on the keyboard (Refer to Figure 32). A visual representation of the selected event is displayed by the *Controller Status* (Refer to CONTROLLER STATUS) and *Faulty Phases* (Refer to FAULTY PHASES) sections which can be found to the right of the events list. The *Faulty Phases* are not displayed when viewing a warning flasher’s event (Refer to Figure 33).



[HOME](#) [CONTACT](#)



[CONNECTIVITY](#) [REPORTS](#) [KIRSTY@AUTOMOTOR.CO.ZA](#)

- Mains Failure
- Circuit Breaker Tripped
- Auxiliary Failure
- Emergency Flashing
- Detector Faults

- Door Open Alerts
- Manual Control On Alerts
- Synchronisation Faults
- Pushbutton Faults

- Police Switch On Alerts
- Forced Plan Alerts
- Data Uploads
- Data Downloads

- Reset RTC
- Normal Operation
- Amber Faults
- Pedestrian Faults

Date and Time	Event Description	Plan
2021/08/16 09:31:34	Connected To Server - Controller in ERROR State	Plan 3
2021/08/15 17:49:16	Report - Controller in ERROR State	Plan 3
2021/08/15 14:59:11	Connected To Server - Controller in ERROR State	Plan 3
2021/08/15 12:34:11	Connected To Server - Controller in ERROR State	Plan 3
2021/08/15 12:24:21	Connected To Server - Controller in ERROR State	Plan 3
2021/08/15 10:11:28	Connected To Server - Controller in ERROR State	Plan 3

Events 1 through to 6 out of 6 Page Size:

Controller Status

Mains On	✓
Circuit Breaker On	✓
Emergency Flashing On	✗
Detectors OK	✓
Door Open	⚠
Manual Control Off	✓
Synchronisation Failed	✗
Pushbuttons OK	✓
Police Switch Off	✓
Ambers OK	✓
Pedestrians OK	✓

Faulty Phases

A	✗	E	●	I	●	M	●
B	●	F	●	J	●	N	●
C	●	G	●	K	●	O	●
D	●	H	●	L	●	P	●

🔄 Refreshing in 23...

Figure 32: Visual representation of the selected i.e. third, event.

EVENT FILTERS:

Events From Date:

2021/11/01

Events To Date:

2021/11/29

- One Flasher Off Alerts
- All Flashers Off Faults
- Door Open Alerts
- Data Uploads
- Data Downloads
- Normal Operation



Date and Time	Event Description	Plan
2021/11/09 10:19:23	Connected To Server	NONE
2021/11/09 10:16:02	Connected To Server	NONE
2021/11/09 10:03:13	Report - Controller in ERROR State	NONE
2021/11/09 10:02:40	Connected To Server	NONE
2021/11/08 09:10:41	Connected To Server	NONE

... 48 49 50 51 52 53 54 55 56 57

Controller Status	
All Flashers On	✔
Door Closed	✔

Generate Report

Events 561 through to 565 out of 565

Page Size:

Refreshing in 17...

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Figure 33: Visual representation of a warning flasher event.

CONTROLLER STATUS

The *Controller Status* section identifies the event types that are either OK, causing a fault state or causing a warning state at the intersection. Fault states are identified by the red cross. Warning states are identified by the orange warning triangle. OK states are identified by the green tick.

FAULTY PHASES

When an intersection, more specifically a controller, is in emergency flashing, the *Faulty Phases* section identifies the phase(s) that are at fault. This is indicated by the orange cross located at phase(s) A through to P.

INTERSECTION EVENTS REPORT

A report containing the listed events for the specified intersection over the specified time frame can be generated by clicking on *Generate Report* found either below the *Faulty Phases* section (Refer to Figure 34) of a selected controller or below the *Controller Status* section (Refer to Figure 35) of a selected warning flasher.

Controller Status

Mains On	✓
Circuit Breaker On	✓
Emergency Flashing Off	✓
Detectors OK	✓
Door Open	⚠
Manual Control Off	✓
Synchronisation OK	✓
Pushbuttons OK	✓
Police Switch Off	✓
Ambers OK	✓
Pedestrian Faults	⚠

Faulty Phases

A	●	E	●	I	●	M	●
B	●	F	●	J	●	N	●
C	●	G	●	K	●	O	●
D	●	H	●	L	●	P	●

[Generate Report](#)

Figure 34: Generate specific controller's events report.

Controller Status

All Flashers On	✓
Door Closed	✓

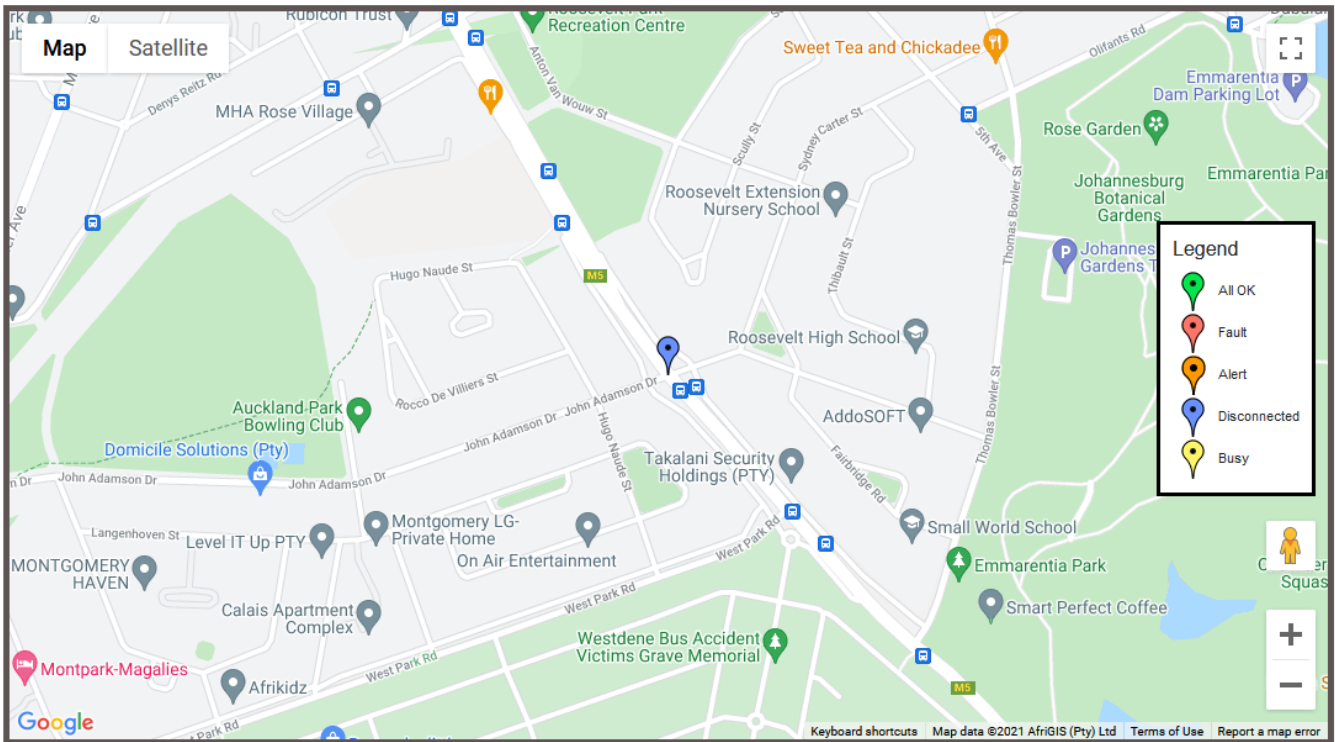
[Generate Report](#)

Figure 35: Generate specific warning flasher's events report.

LOCATING THE INTERSECTION GRAPHICALLY

The location of the specific intersection can be viewed graphically when clicking on the *Locate Intersection* link in the top left-hand corner of the page. The user will be redirected to the *Map* page (Refer to Figure 36) which identifies the location of the intersection together with its current status, as specified by the *Legend*. Hover over the intersection's dropped pin to identify the intersection further (Refer to Figure 37). Click on the intersection's dropped pin to view its events. To load all intersections together with the specific intersection, click on the **LOAD ALL INTERSECTIONS** button in the top left-hand corner of the page (Refer to Figure 38). To refresh the state of the intersection, click on the *Refresh* button in the bottom right-hand corner of the page.

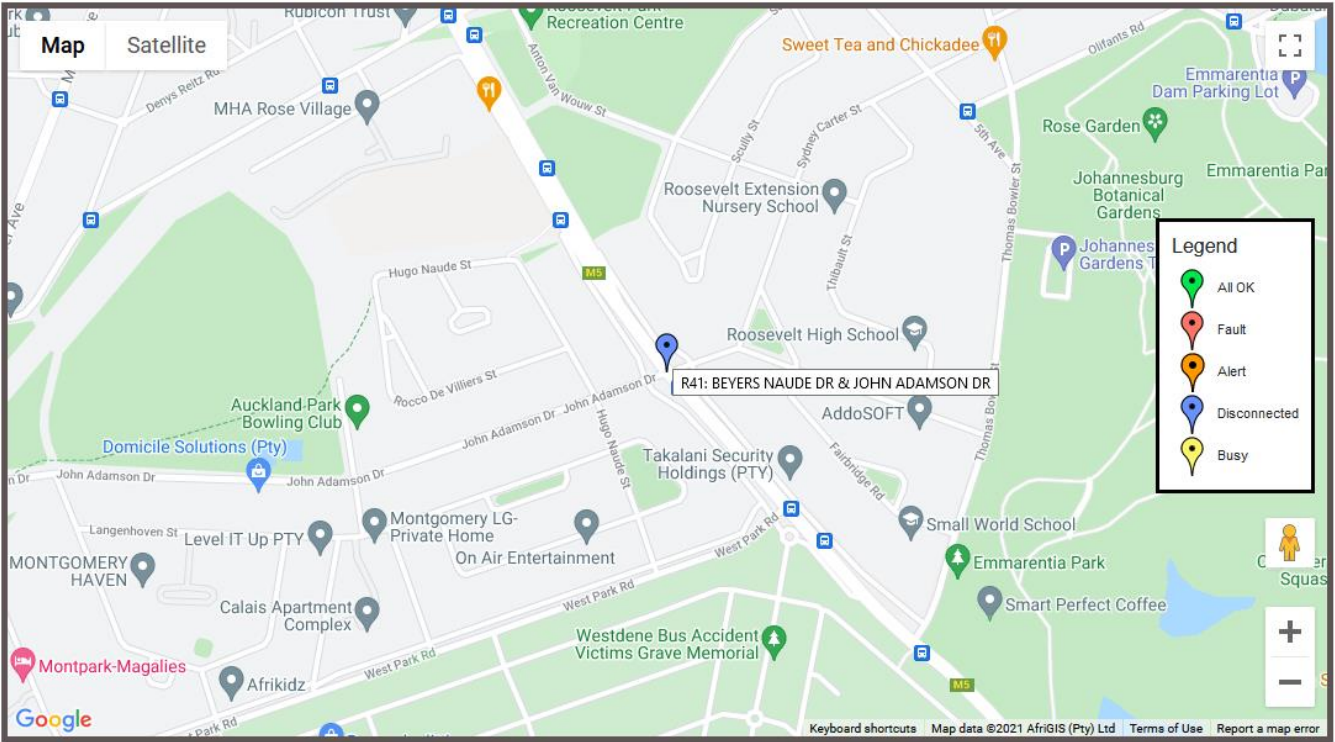
LOAD ALL INTERSECTIONS



Refresh

Figure 36: Graphical view of specific intersection.

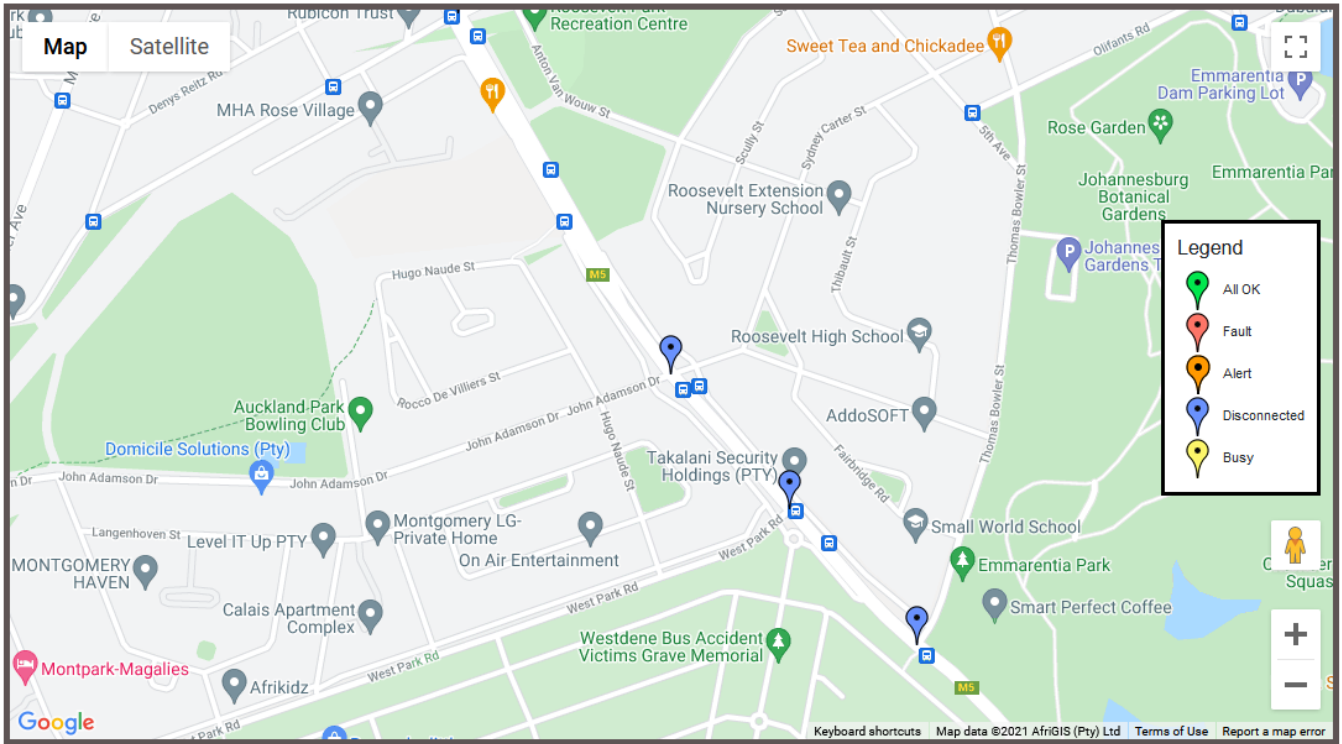
LOAD ALL INTERSECTIONS



Refresh

Figure 37: Intersection identification.

LOAD ALL INTERSECTIONS



Refresh

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Figure 38: Graphical view of specific intersection together with the rest.

SEARCHING THE INTERSECTIONS

To do a further search of the intersections, simply use the search engine provided in the top right-hand corner. Enter the search criteria and click on *Go!* (Refer to Figure 39). You will be redirected to the *Home* page where a comprehensive list of those intersections matching the search criteria will be displayed (Refer to SEARCHING THE INTERSECTIONS).

EVENTS FOR THE INTERSECTION OF R231: BEYERS NAUDE DR / JUDITH RD

Locate Intersection





GO!

Figure 39: Intersection search from the events page.

INTERSECTION CONNECTIVITY

Click on *Connectivity* to view the number of intersections that are disconnected, all OK, in a warning state and in a fault state (Refer to Figure 40). To refresh the connectivity of the intersections, click on the *Refresh* button in the bottom right-hand corner of the page.

CONNECTIVITY

	87
	207
	61
	88
TOTAL:	443


 Refresh

Figure 40: Connectivity of intersections.

REPORTS

INTERSECTION SPECIFIC REPORTS

Click on *Reports* then *Intersection Specific Reports* (Refer to Figure 41) to view the intersection specific report options (Refer to Figure 42):

- A report listing all intersections in the Instation Server database.
- A report listing all intersections connected and communicating with the Instation Server.
- A report listing all intersections not connected i.e., disconnected, to the Instation Server.
- A detailed report listing all intersections that are in a fault or warning state.
- A report listing all intersections that are reporting a Real Time Clock (RTC) drift error.

Select i.e., tick, or deselect i.e., untick, *Consider anything that has reported in the last 24 hours as "Connected"* if you want to include/exclude those controllers that have reported to the Instation Server in the last 24 hours. Click on *Generate Report* to generate the selected intersection specific report.

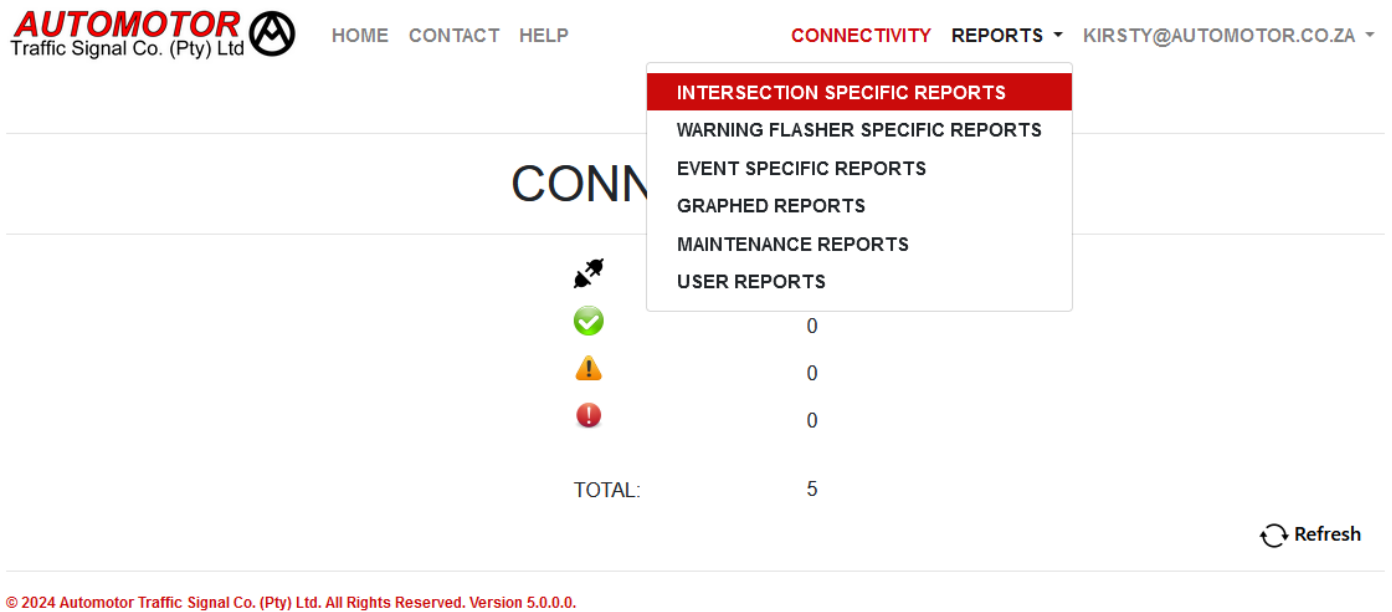


Figure 41: Intersection specific reports.

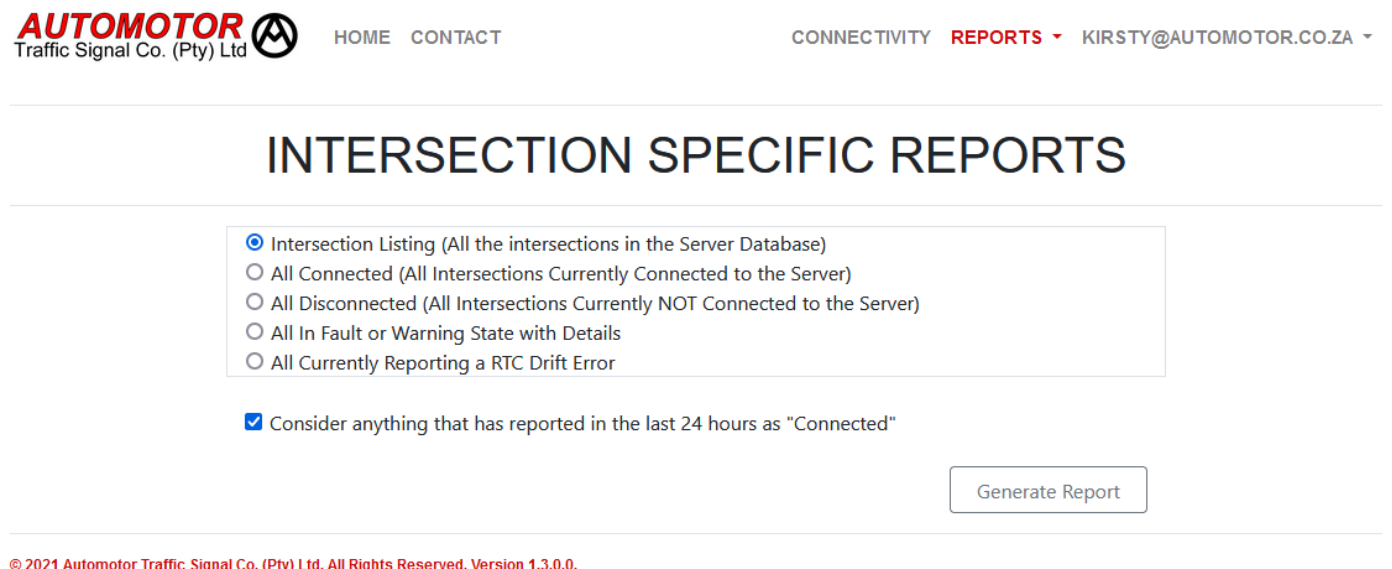


Figure 42: Intersection specific report options.

WARNING FLASHER SPECIFIC REPORTS

Click on *Reports* then *Warning Flasher Specific Reports* (Refer to Figure 43) to view the warning flasher specific report options (Refer to Figure 44):

- A report listing all warning flashers in the Instation Server database.
- A report listing all warning flashers with details.

Click on *Generate Report* to generate the selected warning flasher specific report.

The screenshot shows the Automotor web application interface. At the top, there is a navigation bar with the Automotor logo, 'HOME CONTACT HELP', and 'CONNECTIVITY REPORTS' with a dropdown arrow. The user email 'KIRSTY@AUTOMOTOR.CO.ZA' is also visible. The 'CONNECTIVITY REPORTS' dropdown menu is open, showing options: 'INTERSECTION SPECIFIC REPORTS', 'WARNING FLASHER SPECIFIC REPORTS' (highlighted in red), 'EVENT SPECIFIC REPORTS', 'GRAPHED REPORTS', 'MAINTENANCE REPORTS', and 'USER REPORTS'. Below the menu, there is a table with status icons and counts:

	0
	0
	0
TOTAL:	5

At the bottom right of the table area, there is a 'Refresh' button with a circular arrow icon. At the bottom of the page, there is a copyright notice: '© 2024 Automotor Traffic Signal Co. (Pty) Ltd. All Rights Reserved. Version 5.0.0.0.'

Figure 43: Warning flasher specific reports.

The screenshot shows the Automotor web application interface for 'WARNING FLASHER SPECIFIC REPORTS'. At the top, there is a navigation bar with the Automotor logo, 'HOME CONTACT HELP', and 'CONNECTIVITY REPORTS' with a dropdown arrow. The user email 'KIRSTY@AUTOMOTOR.CO.ZA' is also visible. The main heading is 'WARNING FLASHER SPECIFIC REPORTS'. Below the heading, there is a form with two radio button options: 'Warning Flasher Listing' (selected) and 'Warning Flasher Listing with DETAILS'. At the bottom right of the form area, there is a 'Generate Report' button. At the bottom of the page, there is a copyright notice: '© 2021 Automotor Traffic Signal Co. (Pty) Ltd. All Rights Reserved. Version 2.0.0.0.'

Figure 44: Warning flasher specific report options.

EVENT SPECIFIC REPORTS

Click on *Reports* then *Event Specific Reports* (Refer to Figure 45) to view the event specific report options (Refer to Figure 46):

- A report listing all intersections that reported the specified event within the specified time frame.

By default, a time frame with the last 24 hours will be selected and *Mains Failure* will be selected. Change the *Events From Date* and *Events To Date* to generate a report for a different time frame. Select a specific event type to generate a report for that specified event. Click on *Generate Report* to generate the selected event specific report.

The screenshot shows the Automotor website interface. At the top left is the Automotor logo and navigation links: HOME, CONTACT, HELP. At the top right are 'CONNECTIVITY REPORTS' and the user email 'KIRSTY@AUTOMOTOR.CO.ZA'. A dropdown menu is open under 'REPORTS', listing: INTERSECTION SPECIFIC REPORTS, WARNING FLASHER SPECIFIC REPORTS, **EVENT SPECIFIC REPORTS** (highlighted in red), GRAPHED REPORTS, MAINTENANCE REPORTS, and USER REPORTS. Below the menu is a table with status icons and counts:

	0
	0
	0
TOTAL:	5

At the bottom right of the table area is a 'Refresh' button with a circular arrow icon.

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Figure 45: Event specific reports.

The screenshot shows the 'EVENT SPECIFIC REPORTS' page. At the top left is the Automotor logo and navigation links: HOME, CONTACT. At the top right are 'CONNECTIVITY REPORTS' and the user email 'KIRSTY@AUTOMOTOR.CO.ZA'. The main heading is 'EVENT SPECIFIC REPORTS'. Below the heading are two date selection boxes: 'Events From Date:' with '2021/08/15' and 'Events To Date:' with '2021/08/16'. Below the dates are three columns of radio button options for event types:

- Mains Failure
- Circuit Breaker Tripped
- Auxiliary Failure
- Emergency Flashing
- Detector Faults
- Door Open Alerts
- Manual Control On Alerts
- Synchronisation Faults
- Pushbutton Faults
- Police Switch On Alerts
- Forced Plan Alerts
- Data Uploads
- Data Downloads
- Reset RTC
- Normal Operation
- Amber Faults
- Pedestrian Faults

At the bottom right is a 'Generate Report' button.

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Figure 46: Event specific report options.

GRAPHED REPORTS

Click on *Reports* then *Graphed Reports* (Refer to Figure 47) to view the graphed report options (Refer to Figure 48):

- A report listing the number of connected intersections per day within the specified time frame.
- A report listing the total count of the specified event per intersection within the specified time frame. The specific event for which the graph should be generated must be selected after this option is chosen (Refer to Figure 49).

By default, a time frame with the last 24 hours will be selected. Change the *From Date* and *To Date* to generate a report for a different time frame. This time frame may not exceed 30 days (Refer to Figure 50). Click on *Generate Report* to generate the selected graphed report.

AUTOMOTOR
Traffic Signal Co. (Pty) Ltd

HOME CONTACT HELP

CONNECTIVITY REPORTS ▾ KIRSTY@AUTOMOTOR.CO.ZA ▾

- INTERSECTION SPECIFIC REPORTS
- WARNING FLASHER SPECIFIC REPORTS
- EVENT SPECIFIC REPORTS
- GRAPHED REPORTS**
- MAINTENANCE REPORTS
- USER REPORTS

	0
	0
	0
TOTAL:	5

[Refresh](#)

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Figure 47: Graphed reports.

AUTOMOTOR
Traffic Signal Co. (Pty) Ltd

HOME CONTACT HELP

CONNECTIVITY **REPORTS** ▾ KIRSTY@AUTOMOTOR.CO.ZA ▾

GRAPHED REPORTS

From Date: To Date:

Number of Connected Intersections per Day
 Specified Event's Total Count per Intersection

[Generate Report](#)

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Figure 48: Graphed report options.

GRAPHED REPORTS

From Date:

To Date:

2021/09/14

2021/09/15

Number of Connected Intersections per Day

Specified Event's Total Count per Intersection

EVENT FILTERS:

- Mains Failure
- Circuit Breaker Tripped
- Auxiliary Failure
- Emergency Flashing
- Detector Faults
- Door Open Alerts
- Manual Control On Alerts
- Synchronisation Faults
- Pushbutton Faults
- Police Switch On Alerts
- Forced Plan Alerts
- Data Uploads
- Data Downloads
- Reset RTC
- Normal Operation
- Amber Faults
- Pedestrian Faults

Generate Report

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Figure 49: Selecting an event for the total count per intersection graph.

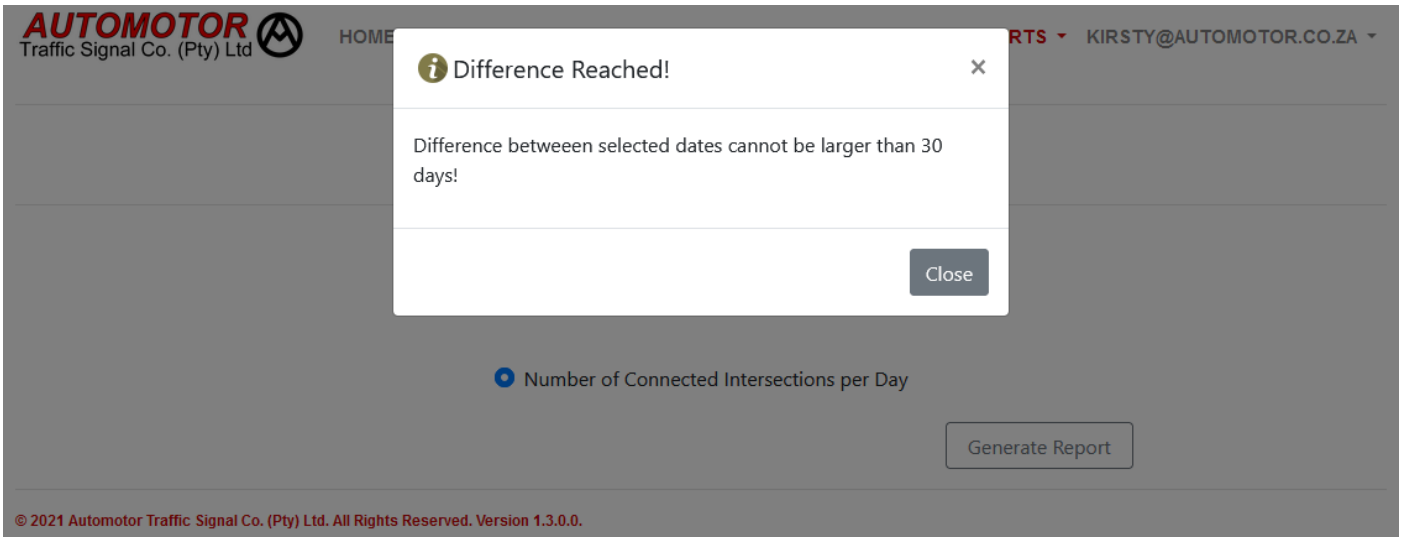


Figure 50: Time frame exceeds 30 days.

MAINTENANCE REPORTS

Click on *Reports* then *Maintenance Reports* (Refer to Figure 51) to view the maintenance report options (Refer to Figure 52):

- A report listing the commissioned and warranty dates of all intersections, together with whether their warranty has expired or not.
- A report listing only the intersections whose warranty has expired.

The screenshot shows the Automotor web application interface. At the top left is the Automotor logo and navigation links: HOME, CONTACT, HELP. At the top right, the user is logged in as KIRSTY@AUTOMOTOR.CO.ZA. The main navigation menu is open, showing options: INTERSECTION SPECIFIC REPORTS, WARNING FLASHER SPECIFIC REPORTS, EVENT SPECIFIC REPORTS, GRAPHED REPORTS, MAINTENANCE REPORTS (highlighted in red), and USER REPORTS. Below the menu is a table with status icons and counts:

	0
	0
	0
TOTAL:	5

At the bottom right of the table area is a 'Refresh' button with a circular arrow icon.

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Figure 51: Maintenance Reports.

The screenshot shows the Automotor web application interface for 'MAINTENANCE SPECIFIC REPORTS'. At the top left is the Automotor logo and navigation links: HOME, CONTACT, HELP. At the top right, the user is logged in as KIRSTY@AUTOMOTOR.CO.ZA. The main heading is 'MAINTENANCE SPECIFIC REPORTS'. Below the heading are two radio button options:

- Warranty Report for ALL Intersections
- Expired Warranties Report

At the bottom right is a 'Generate Report' button.

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Figure 52: Maintenance Report Options.

USER REPORTS

Only those users with administrative rights will be able to generate user reports. Click on *Reports* then *User Reports* (Refer to Figure 53) to view the user report options (Refer to Figure 54). By default, a time frame with the last 24 hours will be selected. Change the *Events From Date* and *Events To Date* to generate a report for a different time frame. Click on *Generate Report* to generate the selected user events report.

The screenshot shows the Automotor web application interface. At the top left is the Automotor logo and navigation links: HOME, CONTACT, HELP. At the top right are the menu items: CONNECTIVITY, REPORTS (with a dropdown arrow), and the user email: KIRSTY@AUTOMOTOR.CO.ZA (with a dropdown arrow). The main content area features a large heading 'CONN' (part of 'CONNECTIVITY'). Below this is a table with icons and counts:

	INTERSECTION SPECIFIC REPORTS	
	WARNING FLASHER SPECIFIC REPORTS	
	EVENT SPECIFIC REPORTS	
	GRAPHED REPORTS	
	MAINTENANCE REPORTS	
	USER REPORTS	
		0
		0
		0
	TOTAL:	5

At the bottom right of the table area is a 'Refresh' button with a circular arrow icon.

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Figure 53: User Reports.

The screenshot shows the Automotor web application interface for 'USER EVENTS REPORTS'. At the top left is the Automotor logo and navigation links: HOME, CONTACT, HELP. At the top right are the menu items: CONNECTIVITY, REPORTS (with a dropdown arrow), and the user email: KIRSTY@AUTOMOTOR.CO.ZA (with a dropdown arrow). The main content area features a large heading 'USER EVENTS REPORTS'. Below this are two date selection fields:

Events From Date:

Events To Date:

At the bottom right is a 'Generate Report' button.

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Figure 54: User Report Options.

USER MANAGEMENT

Only those users with administrative rights will have access to managing users.

USER REGISTRATION

An Administrator can register a user on the system by selecting *Manage the Users* (Refer to Figure 55) then *Register a User* (Refer to Figure 56).

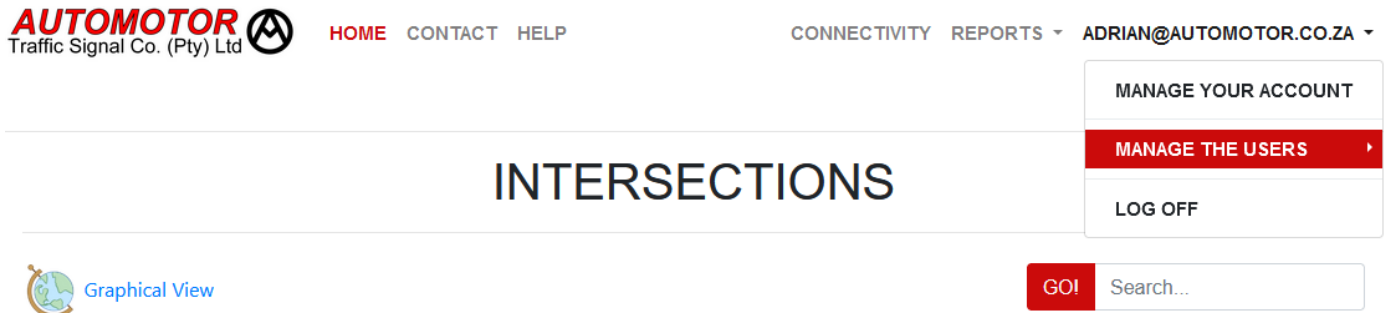


Figure 55: Manage the users selection.

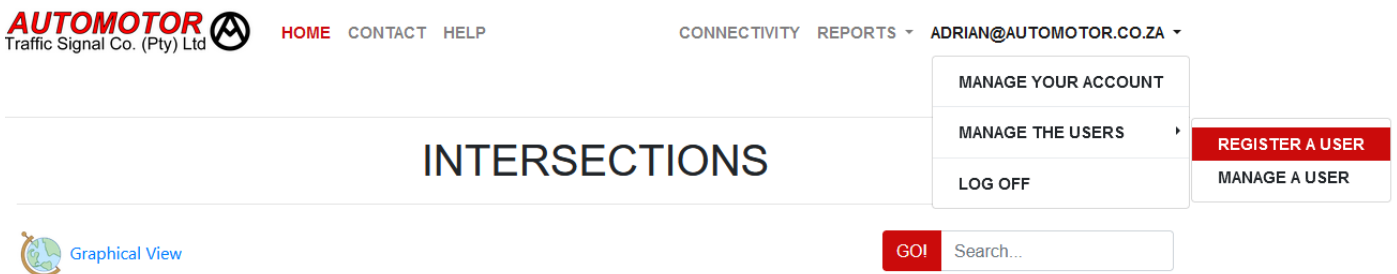
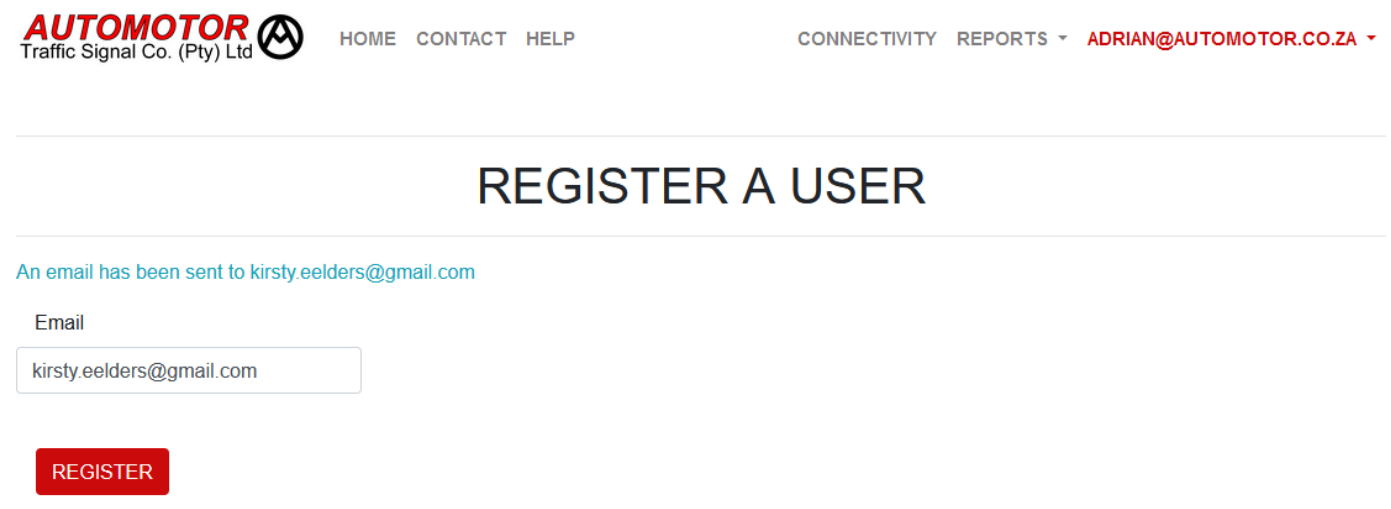


Figure 56: Register a user selection.

Enter the *Email* address of the user to be registered on the system and click on *Register* (Refer to Figure 57). An email will be sent to the user once they have been successfully registered. A randomly generated password will be allocated to the user.



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Figure 57: Registering a user.

USER MANAGEMENT

An Administrator can manage a user on the system by selecting *Manage the Users* (Refer to Figure 55) then *Manage a User* (Refer to Figure 58).

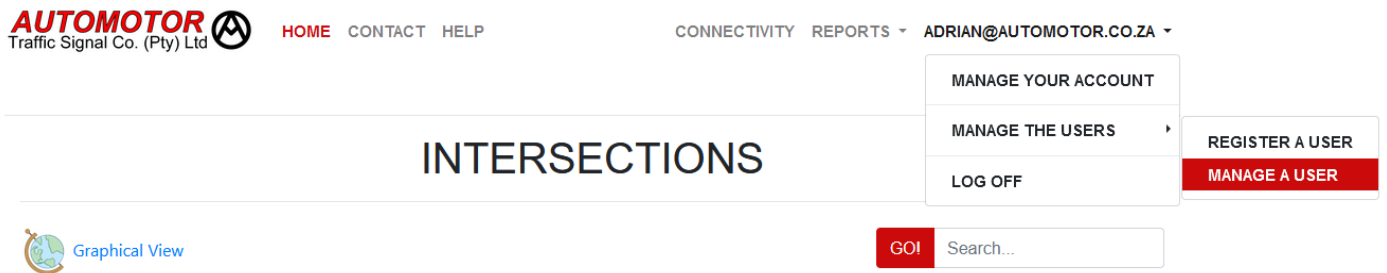
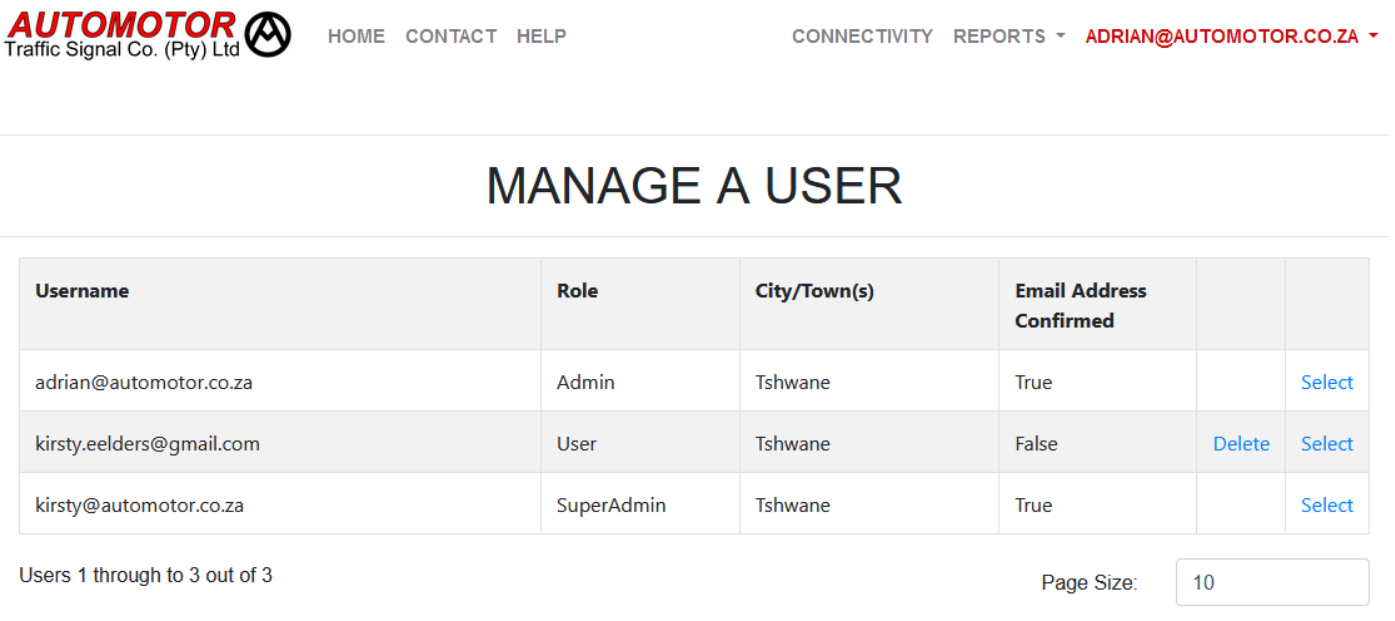


Figure 58: Manage a user selection.

A list of all users registered on the system will be displayed to the Administrator (Refer to Figure 59). Information includes:

- A user's *Role*, namely super administrator, administrator or user.
- A user's respective *City/Town(s)*.
- Whether or not a user has confirmed their Email address once registered on the system. It is important to note that if a user has not confirmed their email address, they will not be able to use the Web Application.
- The option to *Delete* a user from the system.
- The option to *Select* a user and view their logged information.



Username	Role	City/Town(s)	Email Address Confirmed		
adrian@automotor.co.za	Admin	Tshwane	True		Select
kirsty.eelders@gmail.com	User	Tshwane	False	Delete	Select
kirsty@automotor.co.za	SuperAdmin	Tshwane	True		Select

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Figure 59: Registered users.

USER DELETION

Delete a user by clicking on *Delete* (Refer to Figure 59). It is important to note that an Administrator will not be allowed to delete a user with super administrator or administrator rights. Once a user has been deleted, a refreshed list of users will be displayed to the Administrator (Refer to Figure 60).

MANAGE A USER

Username	Role	City/Town(s)	Email Address Confirmed		
adrian@automotor.co.za	Admin	Tshwane	True		Select
kirsty@automotor.co.za	SuperAdmin	Tshwane	True		Select

Users 1 through to 2 out of 2

Page Size:

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Figure 60: User deleted.

USER SELECTION

View a user's logging in/out history by clicking on *Select* (Refer to Figure 59). By default, a time frame with the last 24 hours will be selected. Change the *Events From Date* and *Events To Date* to view the history of a user for a different time frame (Refer to Figure 61).

USER EVENTS FOR KIRSTY@AUTOMOTOR.CO.ZA

EVENT FILTERS:

Events From Date:  Events To Date: 

Date and Time	Event Description
2024/07/15 10:50:45	Web App. User Log Out
2024/07/15 10:50:02	Web App. User Log In
2024/07/15 10:43:18	Web App. Automatic Log Out due to Inactivity
2024/07/15 10:40:32	Web App. User Log In
2024/07/15 08:41:17	Web App. Automatic Log Out due to Inactivity
2024/07/15 08:40:04	Web App. User Log In
2024/07/15 08:22:27	Web App. Automatic Log Out due to Inactivity
2024/07/15 08:21:16	Web App. User Log In

User events 1 through to 8 out of 8

Page Size:

Figure 61: User history.

CONTACT

Click on *Contact* to view the contact details of Automotor Traffic Signal Co. (Pty) Ltd (Refer to Figure 62). Should you experience any problems with the Automotor Web Application, please contact support. Reference the version of the Web Application being used together with a detailed description of the problem. The version can be found at the bottom of the Web Application, to the right of the copyright.



HOME CONTACT

CONNECTIVITY REPORTS ▾ KIRSTY@AUTOMOTOR.CO.ZA ▾

CONTACT

Physical:

293 Price Street
Despatch
Pretoria
0184

Postage:

P.O. Box 1325
Silverton
0127

Tel: +27 (012) 803 7525 / 6181 / 6182

Fax: +27 (012) 803 8144

E-mail: niel@automotor.co.za or adrian@automotor.co.za

Support: kirsty@automotor.co.za

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Figure 62: Contact details.