



# Homemation EskomSePush Driver

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This driver utilizes the EskomSePush API to get local load shedding times so that you could program a system to react to upcoming load shedding schedules.

Please note, to use this driver you will need to abide by the EskomSePush terms & conditions which are available by [clicking here](#)

## Features

- Get National load shedding status updates.
- Get Area load shedding status updates.
- Program around the load shedding schedule

[Click here for the API Key Setup Guide](#)

## Properties

- **Eskom Shedding Stage:** The current National Load Shedding Stage
- **Currently Being Load Shed:** Yes or No
- **Next Scheduled Outage:** Time & date of the next outage
- **EskomSePush API Key:** See the [API Key Setup Guide](#) to get this key
- **API Calls Remaining:** How many API calls are remaining on the package selected.
- **Update Interval [M]:** How often to get an update from the ESP servers.
- **Region:** The power provider in the area selected
- **Area Name:** Area name selected from the search below.
- **Area ID:** Area ID used by the API from the search below.
- **Search Area:** Enter the area of the site here (same way you would search in the ESP App)
- **Search Results:** Results based on the text entered in the Search Area property.

## Programming

### Actions (When)

- Load Shedding Stage Changed
- Load Shedding Starts in 2 Hours
- Load Shedding Starts in 1.5 Hours
- Load Shedding Starts in 1 Hour
- Load Shedding Starts in 30 Minutes
- Load Shedding Starts in 5 Minutes

- Load Shedding Started
- Load Shedding Ends in 5 Minutes
- Load Shedding Ended

## Conditionals (If)

- Currently Loadshedding
- Load Shedding Stage

## FAQ

- Can you give us some examples of how we could use this driver?
  - General notifications (announcement on a screen or audio system)
  - Set an inverter to charge before load shedding kicks in
- Why did you make the driver?
  - Because the situation is dire in South Africa, knowing when the next scheduled outage will be and programming around it can improve the lives of those who use it with Control4.
- API Key, what's that?
  - This of it as an authorization key. Everyone needs one to link to the EskomSePush service.

## Changelog

- Version 6
  - Corrected an issue where the documentation was not displaying correctly (May require a reboot of Composer AND Director to show correctly)
- Version 5
  - Found a spelling mistake that caused the "Load Shedding Starts in 1.5 Hours" to not fire
  - Added "Load Shedding Starts in 3 Hours" & "Load Shedding Starts in 4 Hours" as programming options
- Version 4
  - Investigating stage numbers less than 0 (Eskom API suspected)
    - Added code to possibly prevent this
- Version 3
  - Updated some code to update the "Eskom Shedding Stage" property correctly
  - Added a Programming Variable with the load shedding name
  - Added some code for error checking when the stage number is unknown
- Version 2
  - Changed the stage number programming conditional from a "String"/"Text" to a "Number" variable so that < = > can be used to compare stage numbers
  - Added the following Programming Variables:
    - "Current Stage Number" - Current Load Shedding Stage as a number

- "API Calls Used" - API calls as a number
  - "Currently Being Load Shed" - Boolean, True/False
- Added the following Programming Commands:
  - "Check API Allowance"
  - "Update Eskom Stage"
  - "Full Update"
- Version 1
  - Initial Release

## API Key Setup Guide

**Step 1:** Go to the ESP API Signup form by [clicking here](#)

**Step 2:** Select the subscription you require & click Subscribe.

# EskomSePush API Subscription

★★★★★ 67 ratings

The EskomSePush API is currently used by home owners and large businesses in a variety of applications, including: home automation, information to contact centres, manage faults & status across dispersed networks, and visualise impact on operations. One customer is even using it to manage planning around outages for their workforce. [Some more reading here.](#)

Check out the [API Documentation](#)

**Features:**

- Status for National Loadshedding
- Status per Area, Upcoming Events & Schedule
- Find Areas Search by Text, or approx GPS coordinates
- User Generated Topics by approx GPS location

**Community Support**

Join the EskomSePush developer community in [#eskomsepush](#) on [ZATech Slack](#).

Join ZATech Slack

[By accessing or using the API you agree to API License Agreement.](#)

Monthly

\$0 a month

**Free\***  
 \*Not for Businesses!  
 Limits!  
 50 requests per day  
 Community Slack Support  
 Personal use only

\$12 a month

**Professional**  
 200 requests per day  
 Community Slack Support  
 Internal use only

\$550 a month

**Business**  
 2500 requests per day  
 Business Support  
 Internal use only

Subscribe

Ratings

★ 4.6 (67 ratings)

5 stars

87%

4 stars

6%

3 stars

0%

2 stars

0%

1 star

7%

**Step 3:** Fill out the form and click Get (my suggestion would be to use the customers details)

The screenshot shows the 'EskomSePush API Subscription' form. On the left, there's a sidebar with the EskomSePush logo, a 'Discount code' field, and a 'Total' section. The main form area contains a 'Contact information' section with fields for 'Email address', 'Full name', and 'Company name'. Below these is a checkbox for 'I accept Terms and Conditions' and a 'Get' button. Red arrows point from the text 'Fill out the form' to the 'Email address', 'Full name', 'Company name', and 'Get' fields.

**EskomSePush API Subscription** US\$0 Monthly  
Qty: 1 Variant: Free\* Membership: Monthly [Configure](#) [Remove](#)

Subtotal US\$0  
Discount code  [Apply](#)

Total US\$0

**Contact information**

Email address

**EskomSePush API Subscription**

Full name

Company name

☐ I accept [Terms and Conditions](#)

[Get](#)

**Step 4:** At the bottom of the page should be your API Key for the project.

The screenshot shows the 'EskomSePush API Subscription' page. On the left, there's a sidebar with the EskomSePush logo, a 'View receipt' button, a 'Resend receipt' button, and a 'Create an account' section. The main content area is titled 'Getting Started:' and contains four steps: Step 1: Read the documentation (or just skim through it); Step 2: Find your area id using area search; Step 3: Get your area info; Step 4: Realise that you can do cool things with this API. Now really go read the documentation. Especially the part about test query parameter to not waste your quota. A red arrow points from the text 'Scroll down' to the 'License key' field at the bottom of the page.

the channel 🎉 Have fun and play nice!

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**Getting Started:**

**Step 1:** Read the [documentation](#) (or just skim through it)

**Step 2:** Find your **area id** using area search

```
curl --location --request GET 'https://developer.sepush.co.za/business/2.0/areas_search?text=fourways' \
--header 'token: LICENSE_KEY'
```

**Step 3:** Get your area info

```
curl --location --request GET 'https://developer.sepush.co.za/business/2.0/area?id=eskde-10-fourwaysext@cityofjohannesburgauteng' \
--header 'token: LICENSE_KEY'
```

Now you can poll to get updates for your area

**Step 4:** Realise that you can do cool things with this API. Now really go read the [documentation](#). Especially the part about **test** query parameter to not waste your quota.

[API Documentation](#)

License key

**Step 5:** In composer

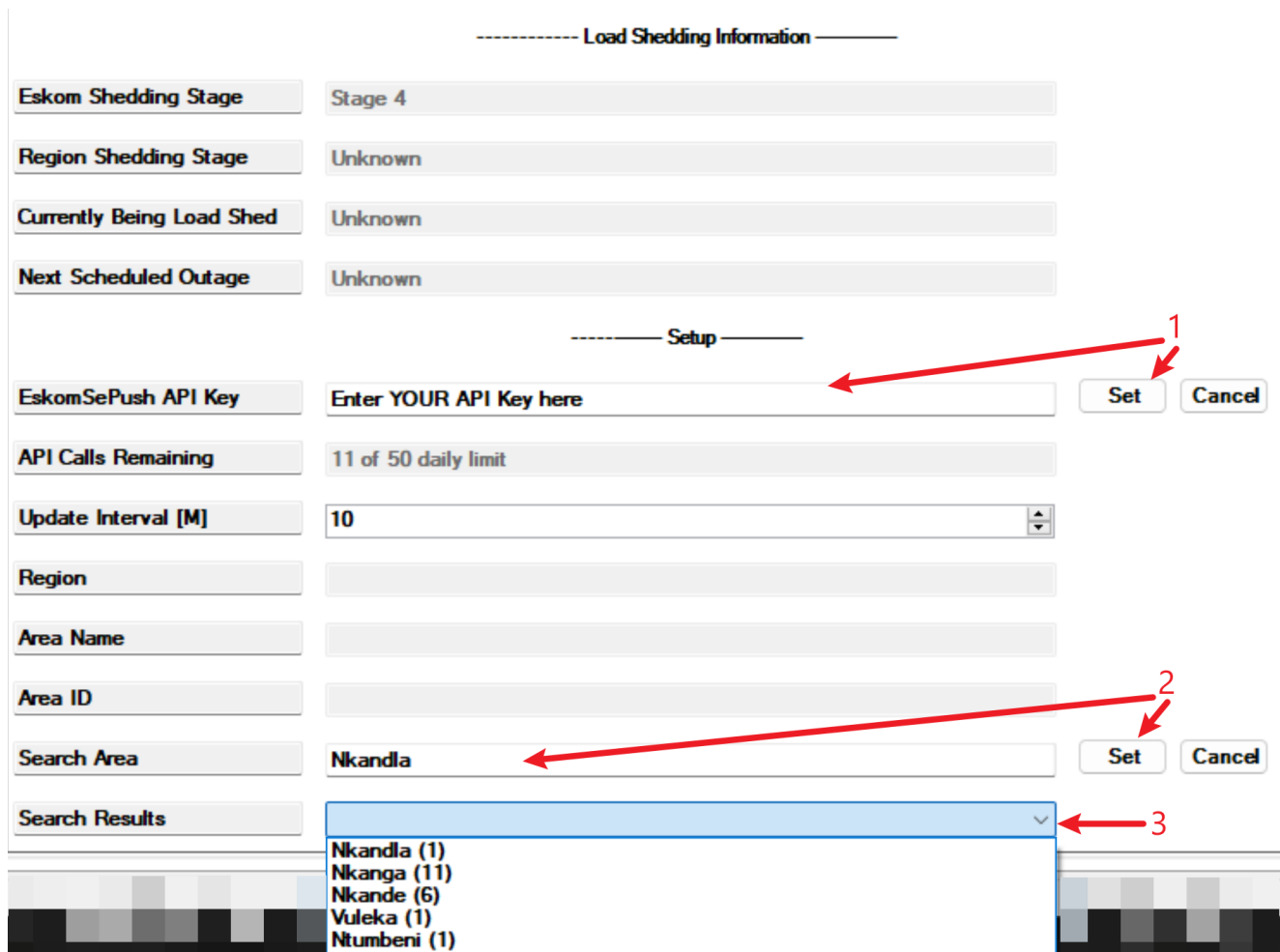
- 1 - Paste the API Key into the EskomSePush API Key Property, click set
- 2 - Enter the projects area (as shown in the ESP Android or iOS App), click set
- 3 - The dropdown will return a list of matching areas, select the correct one & click set

----- Load Shedding Information -----

Eskom Shedding Stage	Stage 4
Region Shedding Stage	Unknown
Currently Being Load Shed	Unknown
Next Scheduled Outage	Unknown

----- Setup -----

EskomSePush API Key	Enter YOUR API Key here	Set	Cancel
API Calls Remaining	11 of 50 daily limit		
Update Interval [M]	10		
Region			
Area Name			
Area ID			
Search Area	Nkandla	Set	Cancel
Search Results	<div>Nkandla (1) Nkanga (11) Nkande (6) Vuleka (1) Ntumbeni (1)</div>		



**Step 6:** You should get information about the area filled in here.

----- Setup -----

EskomSePush API Key	
API Calls Remaining	38 of 50 daily limit
Update Interval [M]	10
Region	Eskom Direct, Nkandla, Kwazulu-Natal
Area Name	Nkandla (1)
Area ID	eskdo-1-nkandlankandlakwazulunatal
Search Area	
Search Results	

**Step 7:** You should also get information about the load shedding for the area filled in here.

----- Load Shedding Information -----

Eskom Shedding Stage	Stage 4
Region Shedding Stage	Stage 4
Currently Being Load Shed	No..... For security reasons :-p
Next Scheduled Outage	Stage 4 : 2023-05-05T12:00:00+02:00 to 2023-05-05T14:30:00+02:00

Using programming you can then use Actions & Conditionals react accordingly:

## EskomSePush Events

☐ Selected

- ☒

Load Shedding Ended

Load Shedding Ended

Load Shedding Ends in 5 Minutes

Load Shedding Stage Changed

Load Shedding Started

Load Shedding Starts in 1 Hour

Load Shedding Starts in 30 Minutes

Load Shedding Starts in 5 Minutes

## EskomSePush Actions



**If Cloud Drivers->EskomSePush Load Shedding is  
= Not Load Shedding**

Commands

Conditionals

Loops



Load Shedding Stage

=



ot Load Shedding



Currently Loadshedding



True

Not Load Shedding

Stage 1

Stage 2

Stage 3

Stage 4

Stage 5

Stage 6

Stage 7

Stage 8

Stage 9

Unknown