

Link Admin Utility Manual

This document list instructions to change settings for various Link features using Link Admin Utility program

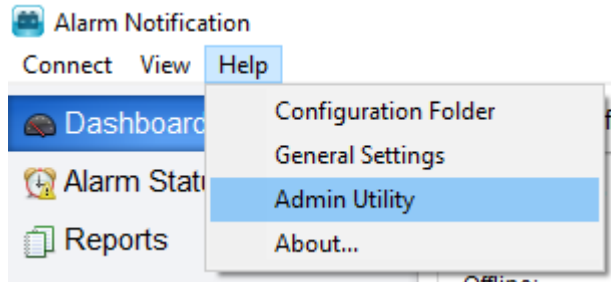
Contents

Setup SMTP server for data emailing	2
Enable Data Export.....	4
Disable Data Export.....	5
Enable Email Alarm Notification.....	6
Enable SMS Alarm Notification.....	9
Disable Email Alarm Notification.....	11
Edit Battery Alarms Setting.....	12
Database Backup	13
Database Restore	14
Start/Stop Services.....	14
Change Link to Service Edition.....	15
Change Link to Standard Edition.....	16
Save System Summary	16
Email System Summary.....	18
Database Repair	19
Database Tables	20

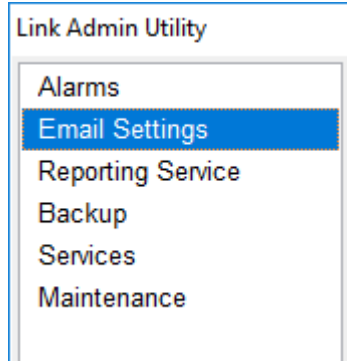
Setup SMTP server for data emailing

Correct SMTP server setup is required for data emailing.

1. Start "Link Client"
2. Click **Help -> Admin Utility** to start Link Admin Utility



3. Click on "Email Settings" tab.



4. Enter Server address under **Host** and enter **Port number**
Click Use **TLS/SSL** button only if SMTP server uses **SSL** otherwise leave it unchecked

A screenshot of the 'Server' configuration form. It has a 'Host' text input field and a 'Port' spinner box set to 25. There is an unchecked checkbox labeled 'Use TLS/SSL'.

Notice: Link version 4.0.1 only supports SSLv3, and does not support TLS. Most email hosting operations, such as those provided by Google, Microsoft, or Amazon, require TLS support. These providers are not currently supported by Link.

5. If SMTP server requires authentication, click "User Authentication" option and enter in **Username** and **Password**. Otherwise, select "No Authentication" option

Authentication

☐ No Authentication

☒ User Authentication

Username Password

EditEmailUsername

6. Edit Retry period, Email Address and Sender Description if required. Then Click Save button

Retries

0 Minutes

Emails that fail to send will be tried again after this time interval.

Sender

Email Address Sender Description

link@donotreply.com Link Battery Monitoring Software

Test

Test Connection Click the button to test the above email configuration

Save Close

7. After these changes all services will restart automatically. System should have SMTP server setting for data emailing now

Correct SMTP server setting can be checked with following procedures:

1. Click on "Test Connection" button
2. Enter **Email Address** to receive test email and click "OK" button

Link Admin Utility

Enter the test email address

OK Cancel

3. If correct SMTP settings are made, Admin Utility will display "Test Successful" message and test email will be received in Email address entered in step 2. If there is error in setting, Admin Utility will display error message


Test

Test Connection

Test Successful

Test

Test Connection


Test Failed
10060:Connection timed out

Enable Data Export

Export feature is disabled for default install. Follow below procedures to enable export.

Note: Ensure correct SMTP server setting is set before enabling data export

1. Click on “Reporting Service” tab in Link Admin Utility.
2. Select **Powershield** button to send data emails to data@powershield.co.nz or select **Other** button and enter in email address to receive data export emails. Selecting both options will send data emails to both email address

Note: multiple email address can be listed separated by comma

3. Edit file size per email if needed

Link Admin Utility

Alarms
Email Settings
Reporting Service
Backup
Services
Maintenance

Remote Reporting Service

The Remote Reporting Service requires a separate subscription with PowerShield Limited or an authorised PowerShield partner. For more information visit <http://powershield.com>

Exports

Service
☐ Powershield
☐ Other

File size per email
Size of files per email (kb)

2000

4. Enter Organization details then click “Save” button

Organization

Company Name

Company Name

Facility Name

Facility Name

City

City Name

Country Code

US

Save

Close

After these changes all services will restart automatically. System should have export feature enabled after service reset.

Disable Data Export

1. Click on “Reporting Service” tab in Link Admin Utility. Ensure both tick boxes under **Exports/Service** are **unchecked** then click “Save” button

The screenshot shows the 'Link Admin Utility' window with the 'Reporting Service' tab selected in the left sidebar. The main content area is titled 'Remote Reporting Service' and contains the following information:

- A message: "The Remote Reporting Service requires a separate subscription with PowerShield Limited or an authorised PowerShield partner. For more information visit <http://powershield.com>"
- An 'Exports' section with a 'Service' subsection containing two unchecked checkboxes: 'Powershield' and 'Other'.
- A 'File size per email' section with a label 'Size of files per email (kb)' and a spinner box set to '2000'.
- An 'Organization' section with four input fields: 'Company Name' (containing 'Company Name'), 'Facility Name' (containing 'Facility Name'), 'City' (containing 'City Name'), and 'Country Code' (containing 'US').

At the bottom right of the window are 'Save' and 'Close' buttons.

After these changes all services will restart automatically. System should have export feature disabled after service reset.

Enable Email Alarm Notification

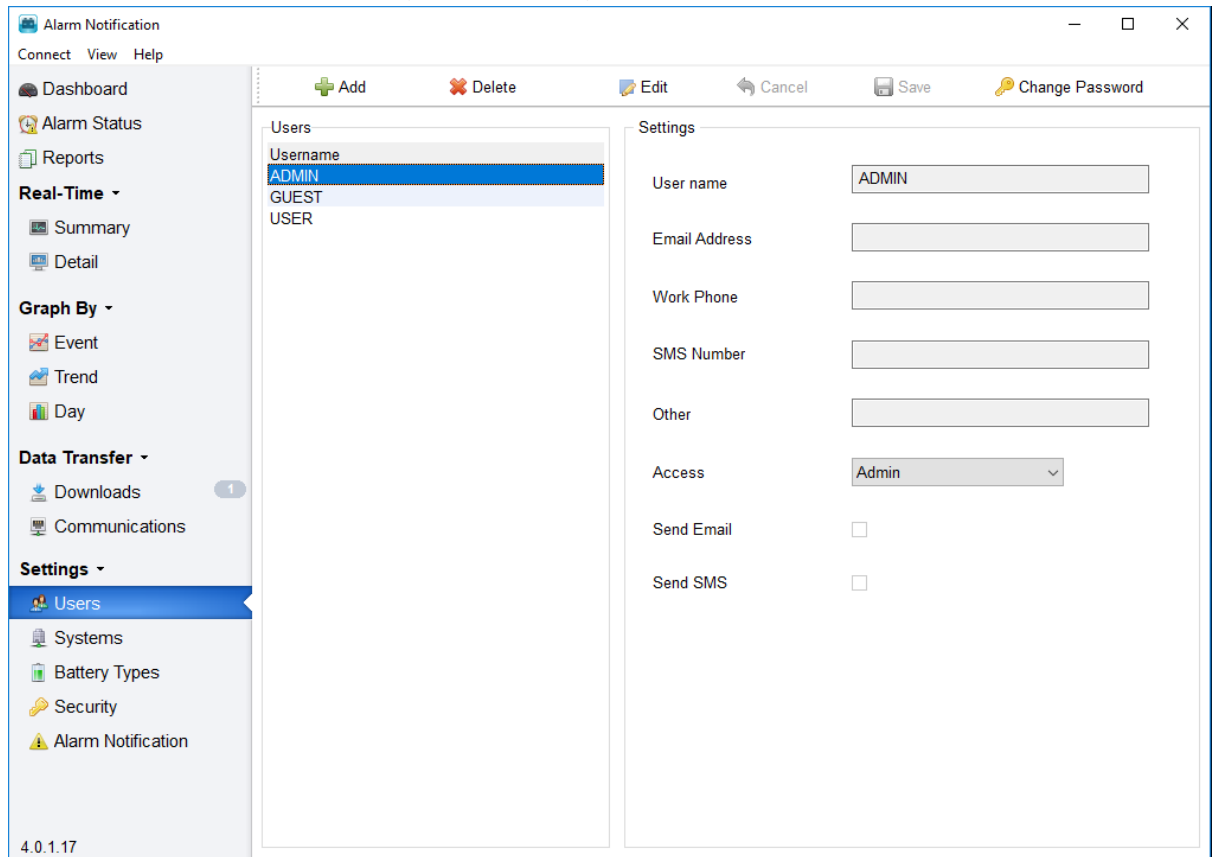
Email Alarm Notification feature is disabled for default install. Follow below procedures to enable this feature

Note: Ensure correct SMTP server setting is set before enabling Email Alarm Notification

1. Click on “Alarms” tab in Link Admin Utility
2. Select **Enable email notifications** option
3. Edit **Time Window** and **Email Limit** if needed
Note: Alarm emails will be only sent during Time Window set
4. Click “Save” button. After these changes all services will restart automatically.

The screenshot shows the 'Link Admin Utility' window with the 'Emailing' tab selected. The left sidebar contains a tree view with 'Alarms' expanded, showing sub-items: 'Email Settings', 'Reporting Service', 'Backup', 'Services', and 'Maintenance'. The main content area is divided into sections: 'Notifications' with a checked checkbox 'Enable email notifications'; 'Time Window' with radio buttons for '24 Hours (emails can be sent any time)' (selected) and 'Specified hours', followed by 'Start Time' (12:00:00 AM) and 'End Time' (11:59:59 PM) dropdowns; 'Email Limit' with a text box containing '10' and a description: 'The maximum number of emails an individual system can send within the time window. Emails past the limit are collected and sent at the beginning of the next time window.'; and a 'Test' section with a 'Test' button and a message 'Click the button to test the above email configuration'. At the bottom right are 'Save' and 'Close' buttons.

5. Open Link Client
6. Select **Users** tab. Select one user (which is in use) and click **Edit** button



7. Enter **Email Address**, click “Send Email” option then click “Save” button

8. **Alarm notification email** will be sent to **email address** entered in step 7, if alarms are raised

Alarm notification setting can be checked with following procedures:


1. Click on “Test” button

2. Enter **Email Address** to receive test email and click “OK” button

3. If correct alarm notification settings are made, Admin Utility will display “Test Successful” message **and** test email will be received in Email address entered in step 2. If there is error in setting, Admin Utility will display error message

Test

Test

 **Test Failed**
10060:Connection timed out

Enable SMS Alarm Notification

1. **Configure the “Email to SMS” gateway in the Link Admin Utility.**

Link uses an Email to SMS gateway service to send SMS messages. Link sends a standard email to this service. The service then converts that email to an SMS and sends it to the SMS number. If no internal gateway service is available at the customer premises a third party service will be required.

These fields need to be configured to match the format of the email as required by the selected SMS gateway service. These requirements will be different between SMS gateway services.

a. **Address Format:**

This represents the email address where the alarms are sent. When sending a notification email Link will replace the word “sms-number” with the actual SMS numbers for each Link user who has entered an “SMS Number” and enabled the “Send SMS” checkbox.

b. **Subject Format:**

This is the subject of the email. The word “sms-number” can also be used in this field.

c. **Email Message Body:**

This represents the contents of the email. When sending a Notification email Link will replace the word “sms-message” with the details of the Link alarm. The word “sms-number” can also be used in this field.

Do not enter SMS numbers directly in to these fields.

2. **Specify the SMS number to send notification messages to**

1. Open Link Client.
2. Select the **Users** tab.
3. Select a valid Link “Username” from the “Users” List or click the “Add” button to add a new one.
4. Enter the SMS number into the “SMS Number” field.
5. Tick the “Send SMS” check box.

Link - Battery Management

Connect View Help

Dashboard Alarm Status Reports Real-Time Summary Detail Graph By Event Trend Day Data Transfer Downloads Communications Settings Users Systems Battery Types Security Alarm Notification

Add Delete Edit Cancel Save Change Password

Users

Username
ADMIN
GUEST
USER

Settings

User name ADMIN

Email Address

Work Phone

SMS Number

Other

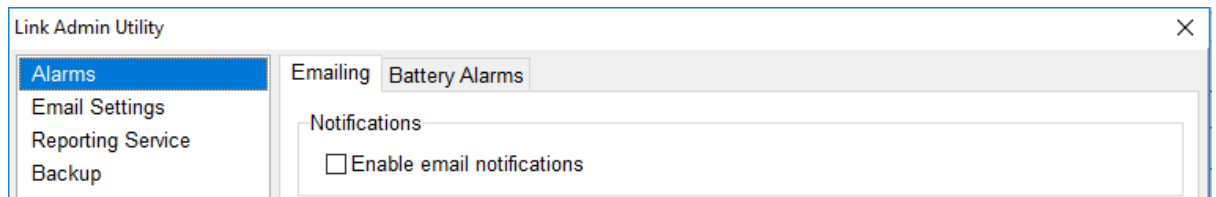
Access Admin

Send Email ☐

Send SMS ☐

Disable Email Alarm Notification

1. Click on Alarms tab in Link Admin Utility
2. Untick **Enable email notifications** option
3. Click "Save" button. After these changes all services will restart automatically.



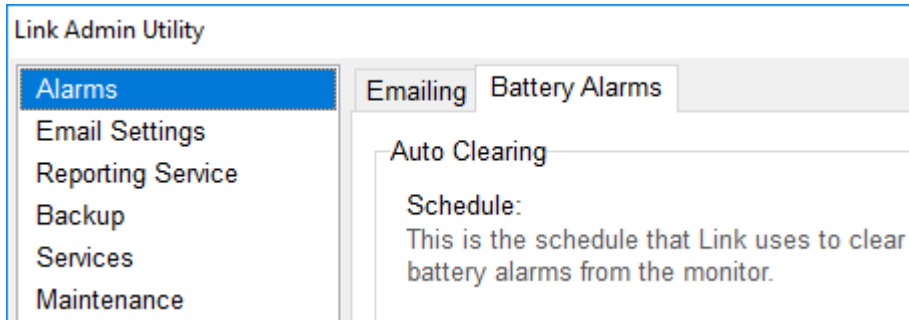
4. No email will be sent after alarm is raised once email alarm notification feature is disabled

Edit Battery Alarms Setting

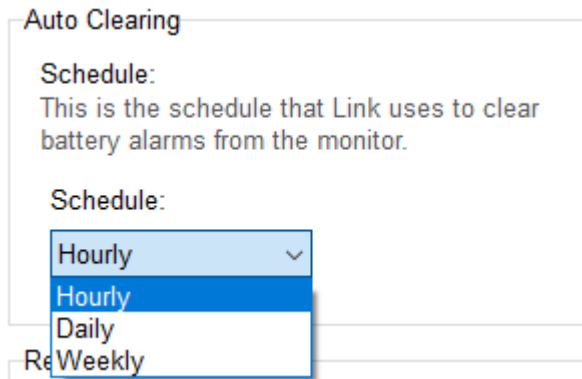
Notice: The settings on this page only affect Sentinels/B2000s. Controllers contain their own clearing logic and are unaffected by these settings.

1. Click on “Alarms” tab in Link Admin Utility

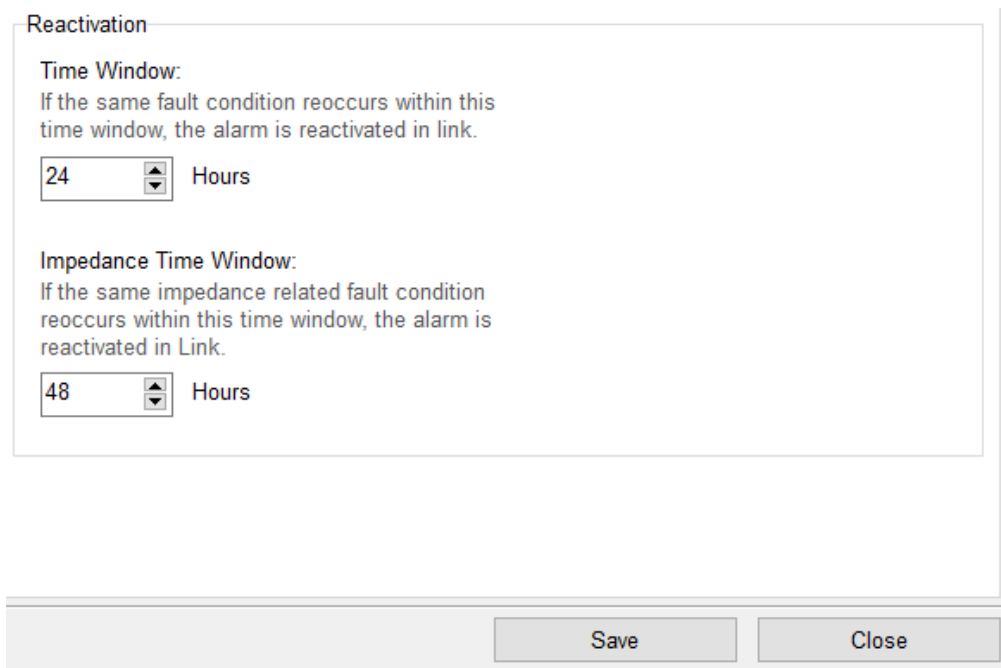
2. Select Battery Alarms tab



3. Auto Clearing Schedule maybe edited with Hourly, Daily, Weekly options



4. Time window for alarm reactivation maybe edited to reactivate alarm at faster or slower rate

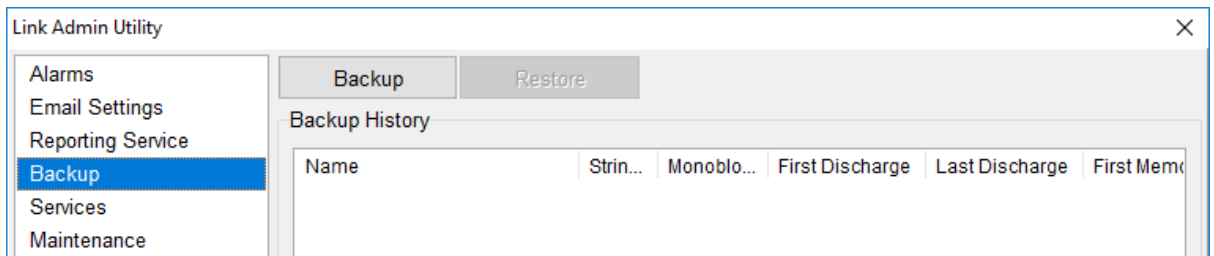


5. Click Save button to save changed settings. New settings will be applied after automatic service restart

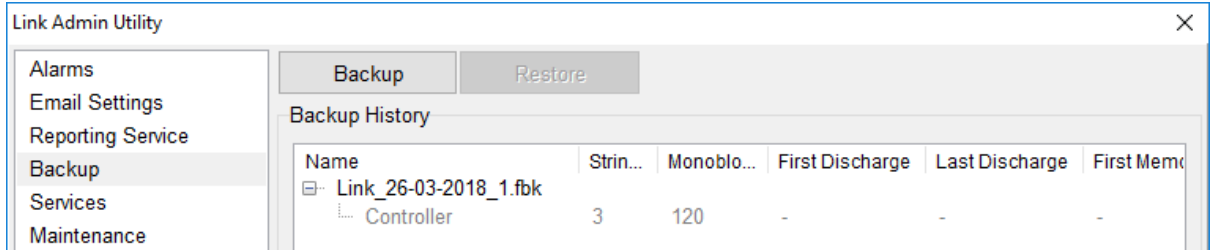
Database Backup

1. Click on "Backup" tab in Link Admin Utility
2. Click on "Backup" button.

Note: Ensure Link.fdb database is located in C:\Program Files (x86)\PowerShield\Link Server\Database directory



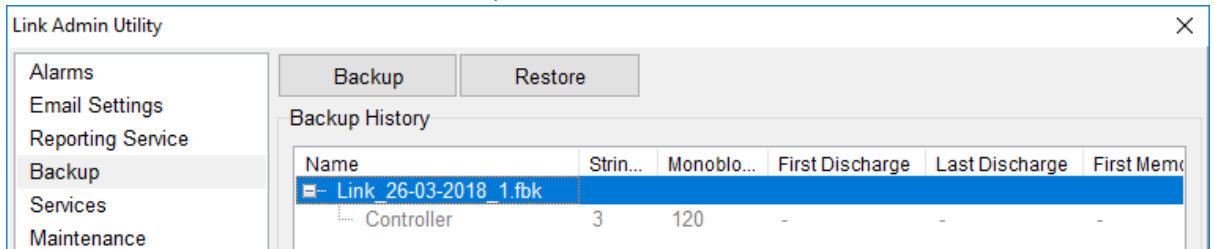
- Once backup is completed, backup file will appear in **Backup History** screen



Database Restore

- Go to "Services" tab then **stop** all services (Detailed instruction on **stopping services** is listed in page 10)
- Rename Link.fdb to link test.fdb.
Ensure Link.fdb database is not located in *C:\Program Files (x86)\PowerShield\Link Server\Database* directory
- Click on "Backup" tab in Link Admin Utility
- Select backup file then click "Restore" button.

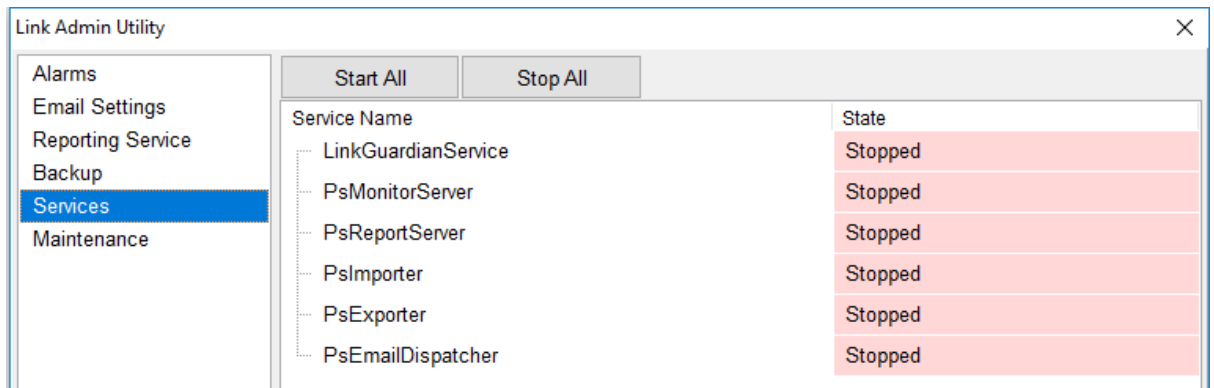
Note: Restore button is disabled if backup file is not selected



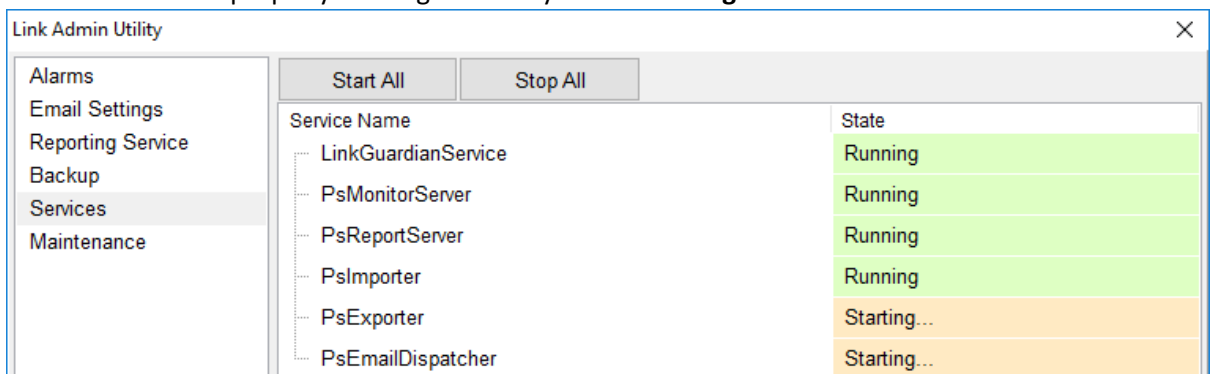
- Once restore is completed, start all services then start Link
- Link should be running with restored database

Start/Stop Services

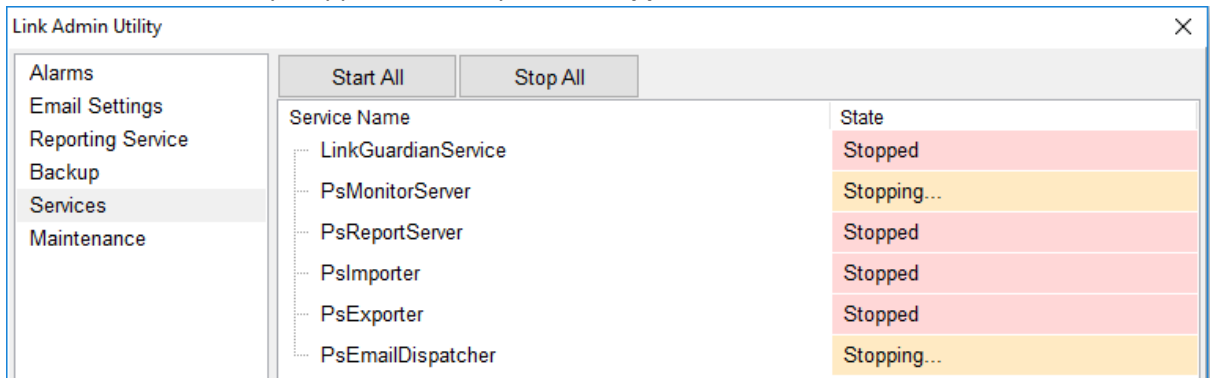
- Click on "Services" tab in Link Admin Utility



- When services are in **Stopped** state, click “Start All” button.
State of service will be changed to **Starting...** then to **Running** state
Note: Services are properly running once they are in **Running** state



- When services are in **Running** state, click “Stop All” button.
State of service will be changed to **Stopping...** then to **Stopped** state
Note: Services are fully stopped once they are in **Stopped** state



Change Link to Service Edition

- Click on “Maintenance” tab in Link Admin Utility
- Select “Service Edition” option

Link Admin Utility


Alarms
Email Settings
Reporting Service
Backup
Services
Maintenance

Link Database Repair Database Tables
Mode
☐ Standard Edition
☒ Service Edition

- Click "Save" button. Changes will be applied once all service restarts
- Open Link Client. Go to **Help-> About**. Link Edition should be displayed as **Service**

Link

About Link


Link Software
PowerShield Battery Management Systems

Link Edition:	Service
Client Version:	4.0.1.17
Server Version:	4.0.1.17
Server Address:	localhost

Change Link to Standard Edition

- Click on "Maintenance" tab in Link Admin Utility
- Select "standard edition" option

Link Admin Utility


Alarms
Email Settings
Reporting Service
Backup
Services
Maintenance

Link Database Repair Database Tables
Mode
☒ Standard Edition
☐ Service Edition

- Click "Save" button. Changes will be applied once all service restarts
- Open Link Client. Go to **Help-> About**. Link Edition should be displayed as **Standard**

Link

About Link

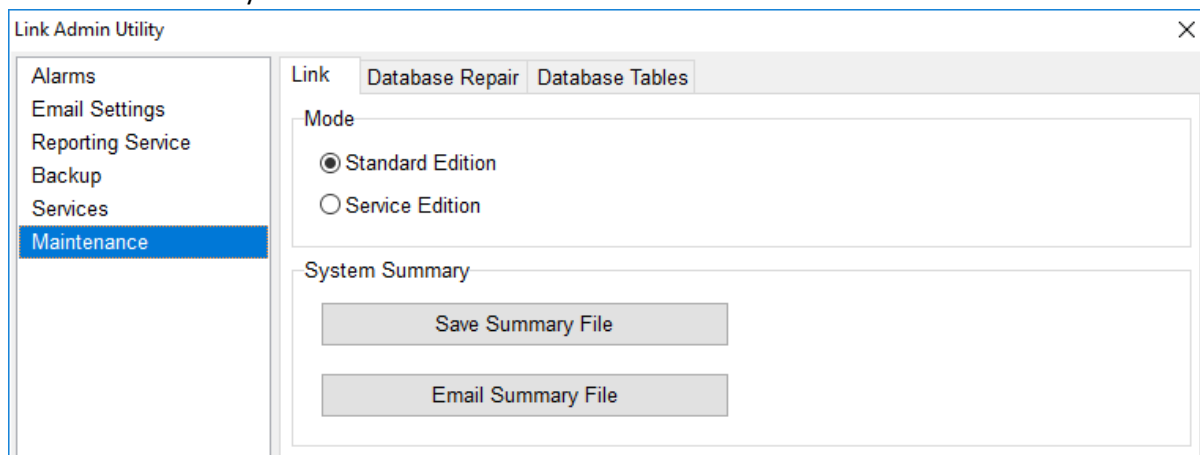

Link Software
PowerShield Battery Management Systems

Link Edition:	Standard
Client Version:	4.0.1.17
Server Version:	4.0.1.17
Server Address:	localhost

Save System Summary

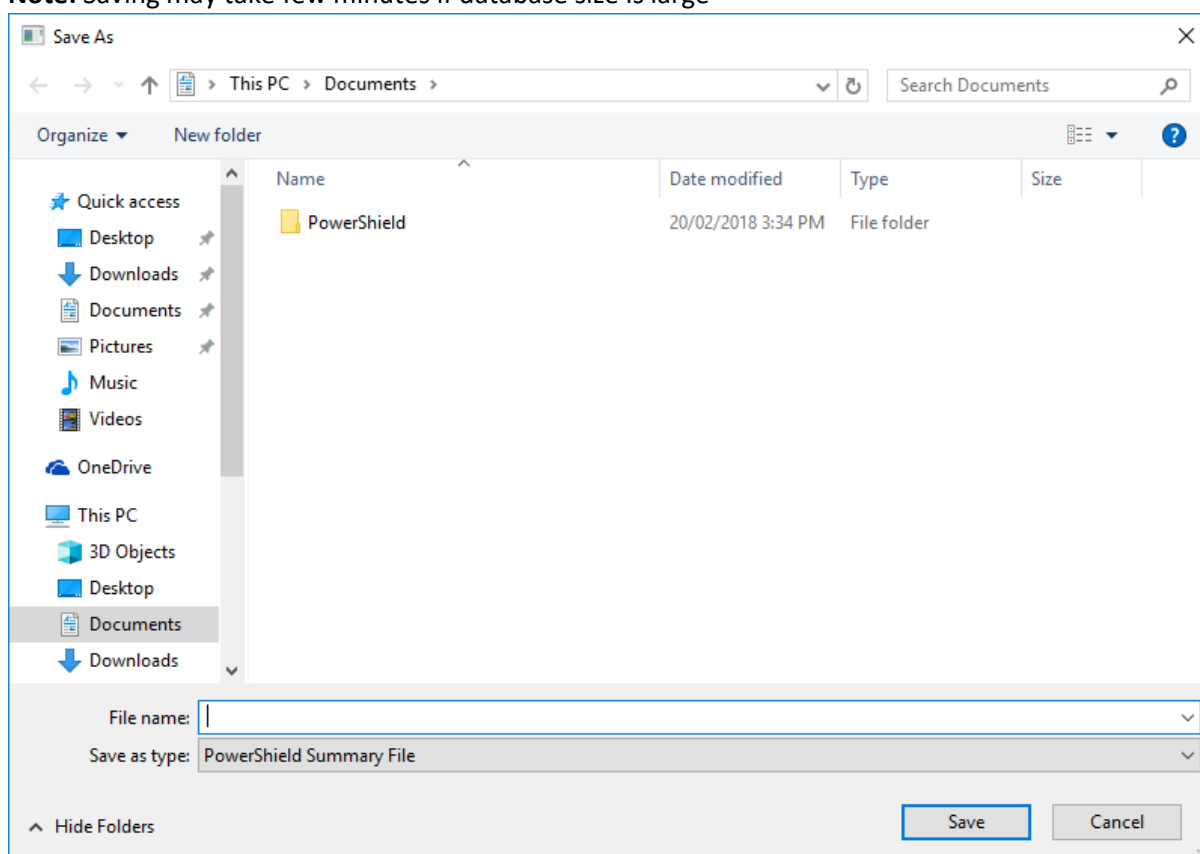
- Click on "Maintenance" tab in Link Admin Utility

2. Click “Save Summary File” button



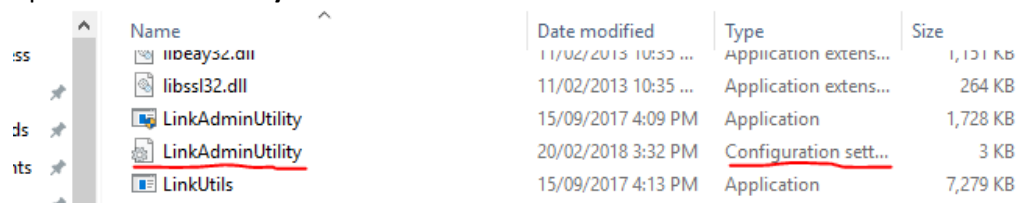
3. Choose **directory** to save summary file and enter in **filename** then click “Save” button
.pws file will be generated in selected directory

Note: Saving may take few minutes if database size is large



Email System Summary

1. Go to Link Server Directory (*C:\Program Files (x86)\PowerShield\Link Server*) and open **LinkAdminUtility.ini**

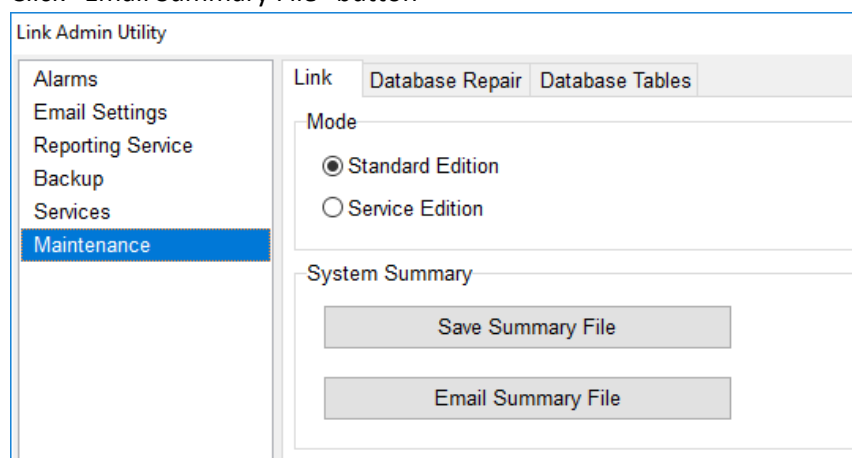


Name	Date modified	Type	Size
libeay32.dll	11/02/2013 10:33 ...	Application extens...	1,131 KB
libssl32.dll	11/02/2013 10:35 ...	Application extens...	264 KB
LinkAdminUtility	15/09/2017 4:09 PM	Application	1,728 KB
<u>LinkAdminUtility</u>	20/02/2018 3:32 PM	<u>Configuration sett...</u>	3 KB
LinkUtils	15/09/2017 4:13 PM	Application	7,279 KB

2. Enter Email address to receive system summary file under Maintenance tab
e.g. [Email=someone@gmail.com](mailto:someone@gmail.com)

```
[Maintenance]
Path=C:\Program Files (x86)\PowerShield\Link Server\Maintenance
DumpTables=1,27,28,12,13,14,15,16,29,55,77,74,75,78
Logs=C:\Program Files (x86)\PowerShield\Link Server\LOG
Email=email service
Gfix=C:\Program Files\Firebird\Firebird_2_5\gfix.exe
```

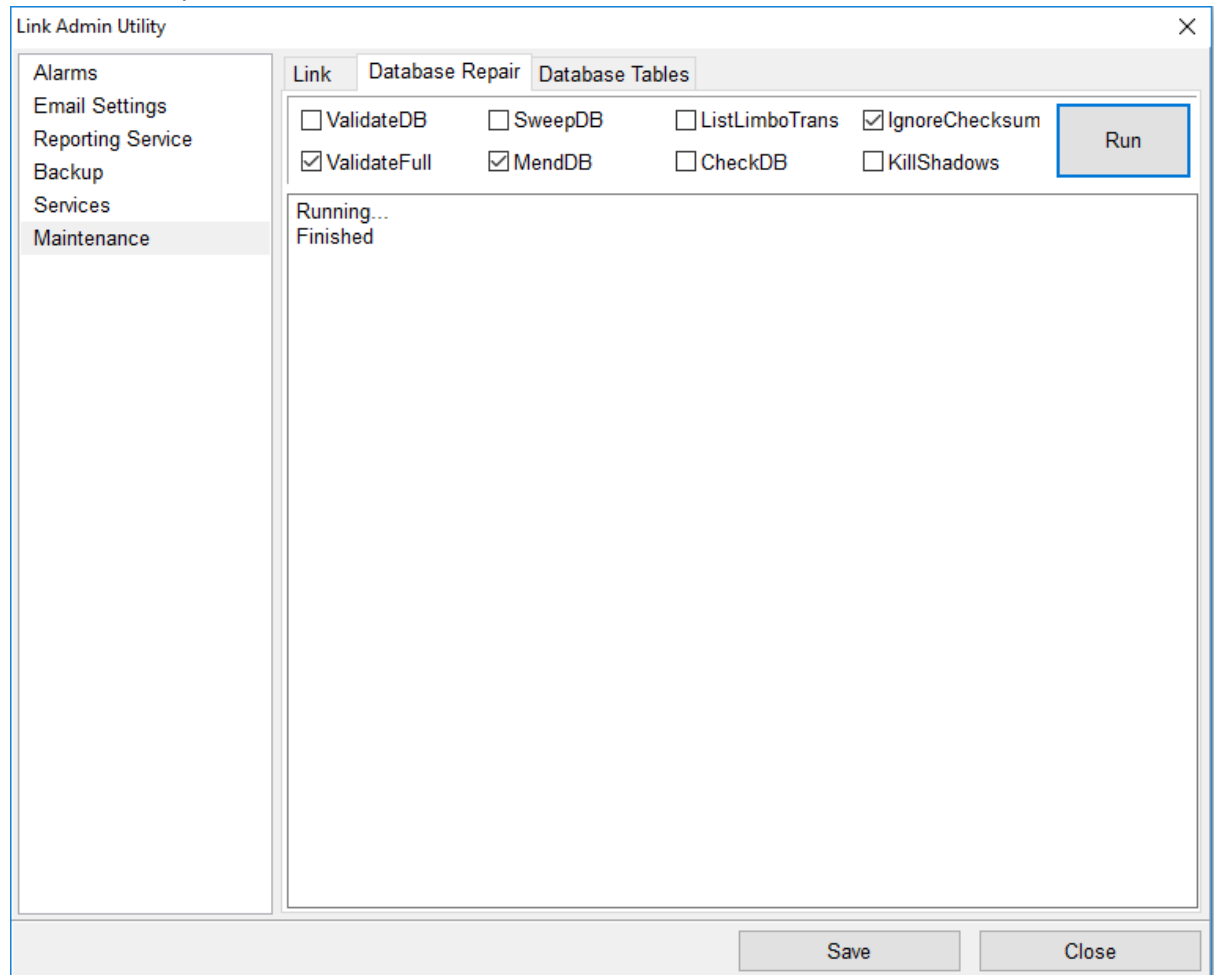
3. Open LinkAdminUtility.exe file and click “Maintenance” tab
4. Click “Email Summary File” button



5. Email should be sent to email address listed in Step 2

Database Repair

1. Click “Database Repair” tab in “Maintenance” Screen
2. Click “Run” button
3. If there are any errors in database, it will be fixed



Database Tables

1. Click “Database Tables” tab in “Maintenance” Screen
2. Table Counts displays number of entries in database table

The screenshot shows the 'Link Admin Utility' window with the 'Database Tables' tab selected. The left sidebar lists 'Alarms', 'Email Settings', 'Reporting Service', 'Backup Services', and 'Maintenance' (which is highlighted). The main content area has tabs for 'Link', 'Database Repair', and 'Database Tables'. Under 'Table Counts', there are six rows: '3 Reports', '0 Imports', '0 Exports', '0 Comm Stats', '0 Downloads', and '0 Import Histories'. Each row has a 'Clear' button to its right. Below these is a 'Recount' button. At the bottom of the main area is a 'Config Updating Flag' section with a 'Clear' button. The footer of the window contains 'Save' and 'Close' buttons.

3. Click “Clear” button to remove certain types of entries in database table

3 Reports

4. Click “Recount” button to reload entry counts in database table

0 Downloads
0 Import Histories

5. Click “Clear” button to clear “Config Updating Flag”

Config Updating Flag

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4 February 2020

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