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# ColorKinetics OneSpace

Version 2.2

Page 1/21

June 23, 2020

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## White paper: Enabling internal DALI power supply Philips Xitanium 75W SR driver

## Table of Contents

|          |  |           |
|----------|--|-----------|
| <b>1</b> | <b>Introduction.....</b>   | <b>3</b>  |
| <b>2</b> | <b>Control interface OneSpace .....</b>                              | <b>4</b>  |
| 2.1      | DALI interface explanation .....                                     | 4         |
| 2.1.1    | DALI specifications OneSpace Prefab .....                            | 4         |
| 2.1.2    | Factory default settings non-TW panel: .....                         | 4         |
| 2.1.3    | Factory default settings TW panel:.....                              | 5         |
| 2.2      | Hardware explanation OneSpace .....                                  | 6         |
| 2.2.1    | Number of drivers inside E-box OneSpace (not TW) .....               | 6         |
| 2.2.2    | Example: 40 panels (size 1200mm x 2700mm). .....                     | 7         |
| 2.2.3    | Number of drivers inside E-box OneSpace TW .....                     | 7         |
| 2.2.4    | Example: 40 TW panels (size 1200mm x 2700mm). .....                  | 8         |
| 2.2.5    | Example: 10 TW panels (size 1500mm x 2700mm). .....                  | 8         |
| 2.3      | Inrush currents CE & CCC E-box.....                                  | 9         |
| 2.4      | Inrush currents UL E-box .....                                       | 10        |
| <b>3</b> | <b>Philips Xitanium 75W SR drivers.....</b>                          | <b>11</b> |
| 3.1      | Rules for building an SR system .....                                | 11        |
| 3.2      | Restriction internal DALI power supply .....                         | 12        |
| 3.2.1    | Example: Maximum allowed DALI PSU's in 1 network .....               | 12        |
| 3.2.2    | Example: 2 DALI PSU's in 1 network .....                             | 13        |
| 3.2.3    | Example: Too much DALI PSU's in 1 network – NOT ALLOWED.....         | 14        |
| <b>4</b> | <b>Enabling the internal DALI power supply .....</b>                 | <b>15</b> |
| 4.1      | Enabling the internal DALI power supply with Philips MultiOne.....   | 15        |
| 4.2      | Enabling the internal DALI power supply with Philips SimpleSet ..... | 18        |

# Safety instructions and warnings

## CAUTION! – READ THIS FIRST --- IMPORTANT SAFETY INSTRUCTIONS



**WARNING:** ENSURE THAT THE MAINS POWER SUPPLY IS OFF OR DISCONNECTED FROM THE E-BOX BEFORE WORKING INSIDE THE E-BOX.

**WARNING:** DO NOT ALTER ANY OTHER SETTINGS OF THE PHILIPS XITANIUM DRIVERS OTHER THAN ENABLING OR DISABLING THE INTERNAL DALI POWER SUPPLY. OTHER ALTERATIONS MAY LEAD TO A MULFUNCTION OF THE ONESPACE PREFAB PANELS

## 1 Introduction

The ColorKinetics OneSpace portfolio consists out of 2 product ranges:

- ColorKinetics OneSpace luminous ceiling (OS LC)
- ColorKinetics OneSpace prefab (OSP)

The differences between these 2 portfolios are mainly defined by the dimensions.

**OneSpace Prefab** comes in ready to mount panels with dimensions from 900mm x 900mm up to 1800mm x 3000m.

**OneSpace Luminous Ceiling** is available in bigger sizes, up to 3000mm x 9900mm.

Because OneSpace Luminous Ceiling is too big to be delivered, ready to mount, in a box, the panel is divided in smaller modules that are installed as one panel on location.

With respect to controls and system integration the general control architecture is the same for both product ranges. The key difference is the total amount of drivers that are used in the panels. The total number of drivers is depending on the dimension of the panel.

OneSpace panels can be controlled via DALI or 0-10V control systems. The Tunable White panels are only available with DALI interface. 0-10V is only available for the fixed white versions and only for the US region.

White papers, similar as this one, are available for following topics:

- Integration of fixed white OneSpace panels with DALI controls
- Integration of fixed white OneSpace panels with 0-10V controls
- Integration of OneSpace TW panels with DALI controls
- Integration of OneSpace panels - occupancy / daylight harvesting
- Integration of OneSpace TW panels - circadian rhythm control
- OneSpace - Enabling internal DALI power supply of Philips Xitanium SR driver

For more information please contact your ColorKinetics representative.

## 2 Control interface OneSpace

### 2.1 DALI interface explanation

OneSpace modules/panels are controllable via a DALI 207 interface (digital addressable lighting interface). DALI is a two-way communication protocol that permits devices to be individually addressed and it also allows multiple devices to be addressed simultaneously via multicast or broadcast messages.

Each device is assigned a unique static short address in the numeric range 0 to 63. Which makes it possible to have maximum 64 devices on one DALI network. More devices can be controlled if a broadcast signal is used with a limit that the DALI bus current does not exceed 250mA.

Data is transferred between controller and devices via an asynchronous, half-duplex, serial protocol at a data rate of 1200 bit/s.

A two-pair wire cable is used for the DALI network. The network can be arranged in a bus or star topology, or a combination of these. DALI is not classified as SELV (Separated Extra Low Voltage) and therefore its wiring may be run next to mains cables or within a multi-core cable that includes mains power.

DALI wires can be connected to a device without regard for polarity with a maximum length of 300 meters.

#### 2.1.1 DALI specifications OneSpace Prefab

DALI specifications Philips Xitanium drivers:

- Philips Xitanium 75W 0.7-2.0A 54V SR 230V
  - o 12nc: 9290.015.05006
  - o CE and CCC
- Philips Xitanium 75W 2.0A 54V SR 120-277V
  - o 12nc: 9290.007.27513
  - o UL
- DALI power consumption per driver: 2mA max.

#### 2.1.2 Factory default settings non-TW panel:

1. Power on setting: DALI 254
  - When power is applied to the OneSpace panel, the luminaire fully lights up to its maximum setting.
2. System failure setting: DALI 254
  - When the DALI signal is lost the OneSpace panel goes to its maximum state.
3. Maximum: DALI 254
  - This is the maximum dimming level, so 254 means that max DALI output is Max power setting.
4. Minimum: DALI 169
  - This is the minimum dimming level, so 169 means that the OneSpace panel is dimmable to 10%.
5. E-box: Group address 0

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### 2.1.3 Factory default settings TW panel:

1. Power on setting: DALI 229
  - When power is applied to the OneSpace Prefab, it will go to 50% light output. (mixed color)
2. System failure setting: DALI 229
  - When the DALI signal is lost the OneSpace Prefab goes to 50% light output. (mixed color)
3. Maximum: DALI 254
  - This is the maximum dimming level, so 254 mean Max DALI output is Max power setting.
4. Minimum: DALI 85
  - This is the minimum dimming level, so 85 means that the OneSpace Prefab panel is dimmable to 1%.
5. E-box 1: Warm color 2700K
6. E-box 2: Cold color 6500K
7. E-box 1: DALI group address 0
8. E-box 2: DALI group address 1

In case of small TW panels (see table below) only one E-box is needed with two drivers inside. This E-box can then be controlled via group address 0 (warm) and 1(cold) because there is only one DALI input connector.

## 2.2 Hardware explanation OneSpace

### 2.2.1 Number of drivers inside E-box OneSpace (not TW)

OneSpace has two major components

1. light panel (or module)
2. E-box that is connected to the light panel.

The E-box consists out of Philips Xitanium constant current drivers together with a terminal block for connecting mains and control interface.



**Figure 1: Inside look of an E-box with the maximum quantity of drivers**

The number of drivers inside an E-box vary with the size of the panel. Below table describes the number of drivers inside the E-box. In case of multiple OneSpace Prefab panels or in case of a OneSpace Luminous Ceiling panel which consists out of multiple modules, multiple E-boxes must be connected to the same control interface. Always check the maximum number of drivers that can be connected to the used control system. Contact your control system representative for more information.

**Table 1: number of drivers vs panel (or module) size**

| Number of 75W drivers vs panel (or module) size |          | Width (mm and ft) |           |           |           |           |
|---|----------|-------------------|-----------|-----------|-----------|-----------|
| Length (mm and ft)                              |          | 600/ 2            | 900/ 3    | 1200/ 4   | 1500/ 5   | 1800/ 6   |
|   | 900/ 3   | 1 driver          | 1 driver  |           |           |           |
|   | 1200/ 4  | 1 driver          | 1 driver  | 1 driver  |           |           |
|   | 1500/ 5  | 1 driver          | 1 driver  | 1 driver  | 2 drivers |           |
|   | 1800/ 6  | 1 driver          | 1 driver  | 2 drivers | 2 drivers | 3 drivers |
|   | 2100/ 7  | 1 driver          | 2 drivers | 2 drivers | 3 drivers | 3 drivers |
|   | 2400/ 8  | 1 driver          | 2 drivers | 2 drivers | 3 drivers | 3 drivers |
|   | 2700/ 9  | 1 driver          | 2 drivers | 2 drivers | 3 drivers | 3 drivers |
|   | 3000/ 10 | 1 driver          | 2 drivers | 2 drivers | 3 drivers | 3 drivers |

**Table 2: DALI current consumption per E-box**

| <b>E-box type</b> | <b>DALI current consumptions</b> |
|-------------------|----------------------------------|
| E-box 1 driver    | 2mA max                          |
| E-box 2 drivers   | 4mA max                          |
| E-box 3 drivers   | 6mA max                          |

When setting up the DALI network it is important that the number of drivers in the project is known. If the maximum number of 64 devices in a DALI network is exceeded, a second DALI network is needed.

The number of drivers in the network also define the needed DALI power supply (together with all other DALI devices in the network). Be aware that the number of drivers can be higher than the number of E-boxes.

### **2.2.2 Example: 40 panels (size 1200mm x 2700mm).**

Below example describes a project with 40 panels of the size 1200mm x 2700mm.

Each panel (or module) has 1 E-box with 2 drivers inside. So, we need  $40 \times 2 = 80$  DALI addresses. This is not possible within 1 DALI network, so we must use 2 networks if we want to control all the panels (or modules) separately by an BMS.

For group control you can also use a broadcast signal.

A simple dimmer that sends a broadcast signal can control hundreds of panels if we make sure that we use the right hardware (DALI repeaters and DALI power supplies).

Each driver consumes 2mA on the DALI network, so in this example this would be 160mA (without taking into account the control devices in the network).

### **2.2.3 Number of drivers inside E-box OneSpace TW**

The number of drivers inside an E-box vary with the size of the panel. Below table describes the number of drivers inside the E-box. In case of multiple OneSpace Prefab panels or in case of a OneSpace Luminous Ceiling panel which consists out of multiple modules, multiple E-boxes must be connected to the same control interface. Always check the maximum number of drivers that can be connected to the used control system. Contact your control system representative for more information.

**Table 3: number of drivers vs panel/module size**

| Number of 75W drivers vs module/panel size |      | Width (mm)            |                       |                       |                       |                       |
|--|------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Length (mm)                                |      | 600                   | 900                   | 1200                  | 1500                  | 1800                  |
|  | 900  | 1x E-box<br>2 drivers | 1x E-box<br>2 drivers |                       |                       |                       |
|  | 1200 | 1x E-box<br>2 drivers | 1x E-box<br>2 drivers | 1x E-box<br>2 drivers |                       |                       |
|  | 1500 | 1x E-box<br>2 drivers | 1x E-box<br>2 drivers | 1x E-box<br>2 drivers | 2x E-box<br>2 drivers |                       |
|  | 1800 | 1x E-box<br>2 drivers | 1x E-box<br>2 drivers | 2x E-box<br>2 drivers | 2x E-box<br>2 drivers | 2x E-box<br>3 drivers |
|  | 2100 | 2x E-box<br>2 drivers | 2x E-box<br>2 drivers | 2x E-box<br>2 drivers | 2x E-box<br>3 drivers | 2x E-box<br>3 drivers |
|  | 2400 | 2x E-box<br>2 drivers | 2x E-box<br>2 drivers | 2x E-box<br>2 drivers | 2x E-box<br>3 drivers | 2x E-box<br>3 drivers |
|  | 2700 | 2x E-box<br>2 drivers | 2x E-box<br>2 drivers | 2x E-box<br>2 drivers | 2x E-box<br>3 drivers | 2x E-box<br>3 drivers |
|  | 3000 | 2x E-box<br>2 drivers | 2x E-box<br>2 drivers | 2x E-box<br>2 drivers | 2x E-box<br>3 drivers | 2x E-box<br>3 drivers |

#### 2.2.4 Example: 40 TW panels (size 1200mm x 2700mm).

Below example describes a project with 40 panels of the size 1200mm x 2700mm.

Each panel (or module) has 2 E-box with 2 drivers inside. So, we need  $2 \times 40 \times 2 = 160$  DALI addresses.

This is not possible within 1 DALI network, so we must use multiple networks if we want to control all the panels (or modules) separately by an BMS.

For group control you can also use a broadcast signal.

A simple dimmer that sends a broadcast signal can control hundreds of panels if we make sure that we use the right hardware (DALI repeaters and DALI power supplies).

Each driver consumes 2mA on the DALI network, so in this example this would be 320mA (without taking into account the control devices in the network).

#### 2.2.5 Example: 10 TW panels (size 1500mm x 2700mm).

Below example describes a project with 10 TW panels of the size 1500mm x 2700mm.

Each panel has 2 E-box with 3 drivers inside. So, we need  $(10 \times 2) \times 3 = 60$  addresses. Or we can send broadcast signals via a DALI TW rotary dimmer.

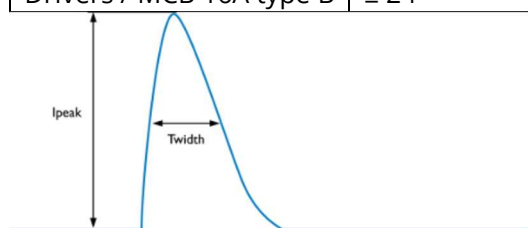


## 2.3 Inrush currents CE & CCC E-box

When using a lot of panels, care must be taken that the inrush currents are still within limits of the used circuit breaker. The following specification are valid for the Philips Xitanium 75W CE/CCC drivers that are inside the E-box.

**Table 4: Inrush current – CE & CCC**

| Specification             | Value     | Unit    | Condition                                      |
|---------------------------|-----------|---------|--|
| Inrush current $I_{peak}$ | 24.9      | A       | Input voltage 230V                             |
| Inrush current Twidth     | 215       | $\mu s$ | Input voltage 230V, measured at 50% $I_{peak}$ |
| Drivers / MCB 16A type B  | $\leq 24$ | pcs     |  |



**Figure 2: Inrush Current CE & CCC – info**

**Table 5: Number of drivers per MCB type**

| MCB      | Rating     | Number of drivers                |
|----------|------------|----------------------------------|
| B        | 10A        | 15                               |
| B        | 13A        | 19                               |
| <b>B</b> | <b>16A</b> | <b>24 (default in datasheet)</b> |
| B        | 20A        | 30                               |
| B        | 25A        | 37                               |
| C        | 10A        | 24                               |
| C        | 13A        | 32                               |
| C        | 16A        | 40                               |
| C        | 20A        | 49                               |
| C        | 25A        | 62                               |

So, for a panel with 3 drivers, maximum 8 panels can be connected to an MCB 16A type B.

## 2.4 Inrush currents UL E-box

Table 6: Inrush current - UL

| Specification              | Value | Unit    | Condition   |
|----------------------------|-------|---------|---|
| Inrush current $I_{peak}$  | 24    | A       | Input voltage 120Vrms                             |
| Inrush current $T_{width}$ | 369   | $\mu s$ | Input voltage 120Vrms, measured at 10% $I_{peak}$ |
| Inrush current $I_{peak}$  | 57    | A       | Input voltage 277Vrms                             |
| Inrush current $T_{width}$ | 348   | $\mu s$ | Input voltage 277Vrms, measured at 10% $I_{peak}$ |

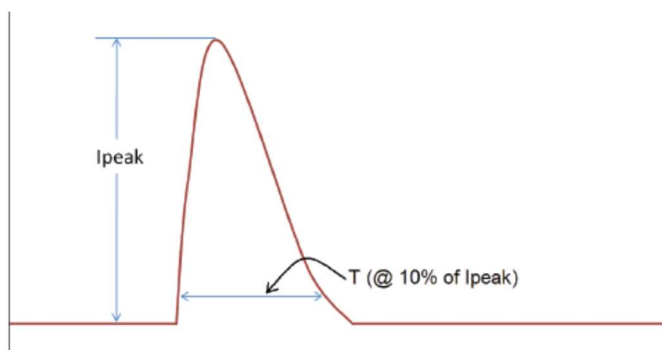


Figure 3: Inrush Current UL - info

### 3 Philips Xitanium 75W SR drivers

Philips Xitanium Sensor Ready drivers are ideal for use with sensors and building management systems. With its integrated DALI 2.0 power supply it is easy to power sensors and wireless modules directly from the driver.

The built-in SR supply can deliver a minimum current of 52 mA (ISR) to the SR bus and the connected device(s).

- The built-in SR supply will never supply more than 60mA (ISR\_MAX).
- The SR bus voltage will be between 12 V and 20 V depending on the connected device load and the amount of SR supplies put in parallel.
- When the internal SR supply is switched OFF the SR driver will extract a maximum of 2 mA from the SR bus.

#### 3.1 Rules for building an SR system

- Respect SR bus polarity when more than one SR supply is connected in parallel.
- The total maximum SR bus current (ISR\_MAX\_TOTAL) must be  $\leq 250$  mA. This current can be determined by adding ISR\_MAX of all SR supplies. Therefore, a maximum of four SR supplies can be connected in parallel.
- The total current delivered to the SR bus (ISR\_DELIVERED) can be determined by adding ISR of all SR supplies.
- The total current extracted from the SR bus (ISR\_EXTRACTED) can be determined by adding up consuming devices like SR drivers with switched OFF SR supply, other DALI gear and control devices.
- To guarantee good communication, a margin of 8 mA is needed to drive the SR bus itself (ISR\_MARGIN).
- The following rule should be respected:  $ISR\_EXTRACTED + ISR\_MARGIN \leq ISR\_DELIVERED$ .

For more details check the Design in guide of the Xitanium LED SR driver.



#### Caution:

- When the above rules are not taken into account, communication cannot be guaranteed and damage to components may occur.

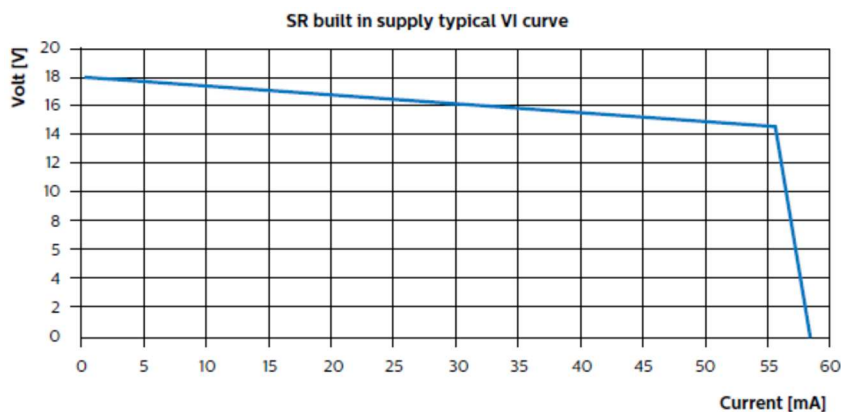


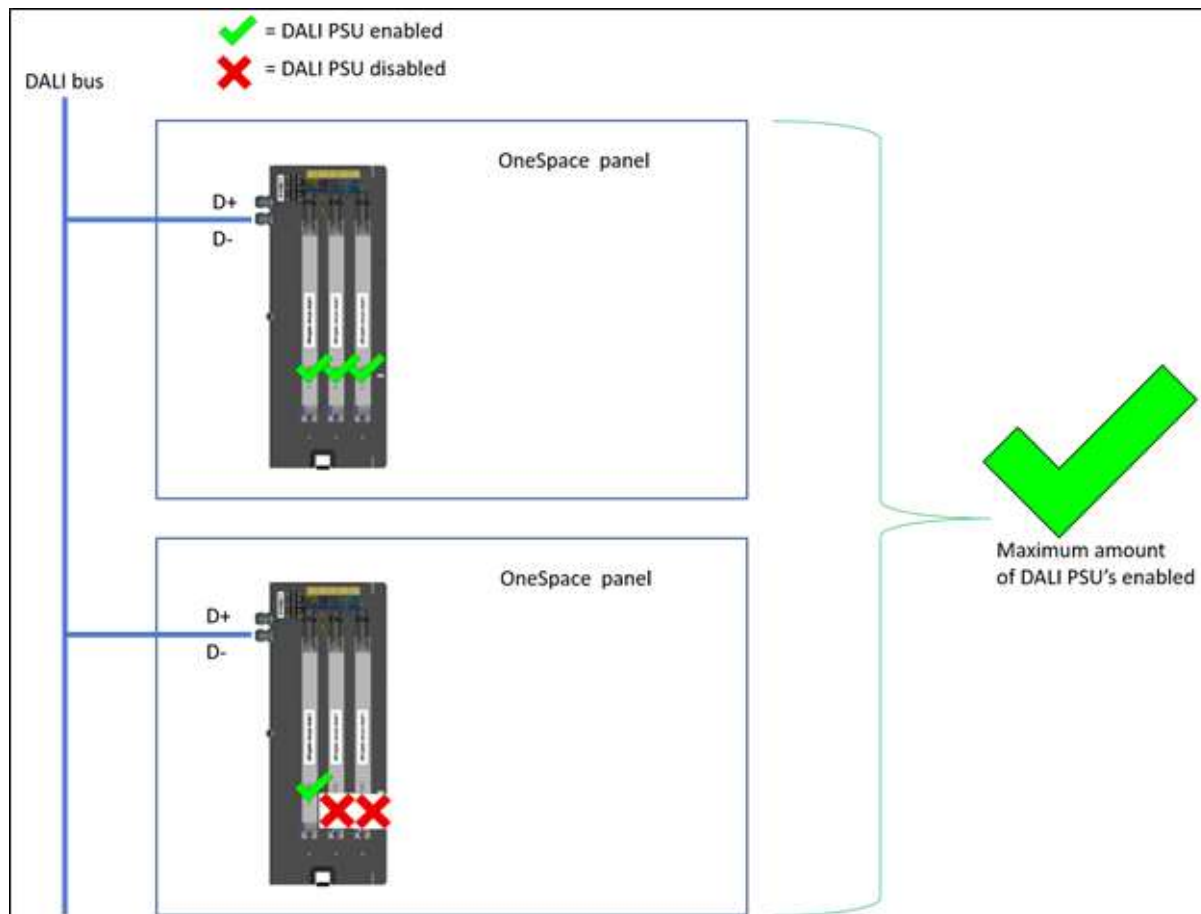
Figure 4: SR built in power supply VI curve

## 3.2 Restriction internal DALI power supply

In a single DALI network only total of four drivers may have the internal DALI power supply enabled. This can be all three drivers in one E-box and one extra in another E-box. Or several single drivers somewhere in the chain with a maximum of 4. Following schematics will clarify this.

### 3.2.1 Example: Maximum allowed DALI PSU's in 1 network

This will deliver an ISR\_MAX of  $4 \times 60\text{mA} = 240\text{mA}$



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Figure 5: Maximum allowed DALI PSU's in 1 network

### 3.2.2 Example: 2 DALI PSU's in 1 network

Only two drivers have the internal DALI PSU enabled in one network.  
This will deliver a maximum of  $2 \times \text{ISR\_MAX} = 120\text{mA}$

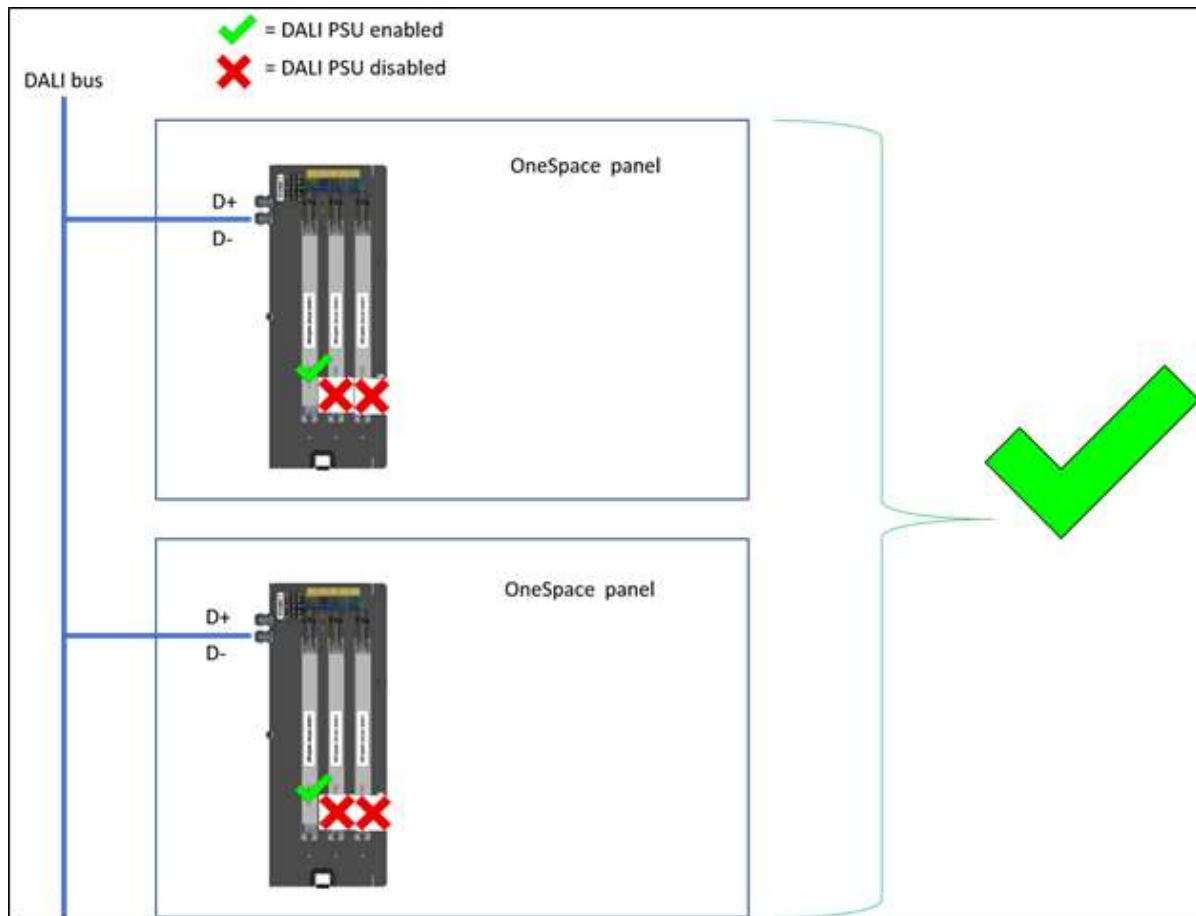


Figure 6: 2 DALI PSU's in 1 network

### 3.2.3 Example: Too much DALI PSU's in 1 network – NOT ALLOWED

In this example we have a tunable white panel with two E-boxes. In both E-boxes all drivers have the internal DALI power supply enabled. This is not allowed.

$$6 \times \text{ISR\_MAX} = 360\text{mA} > 250\text{mA}$$

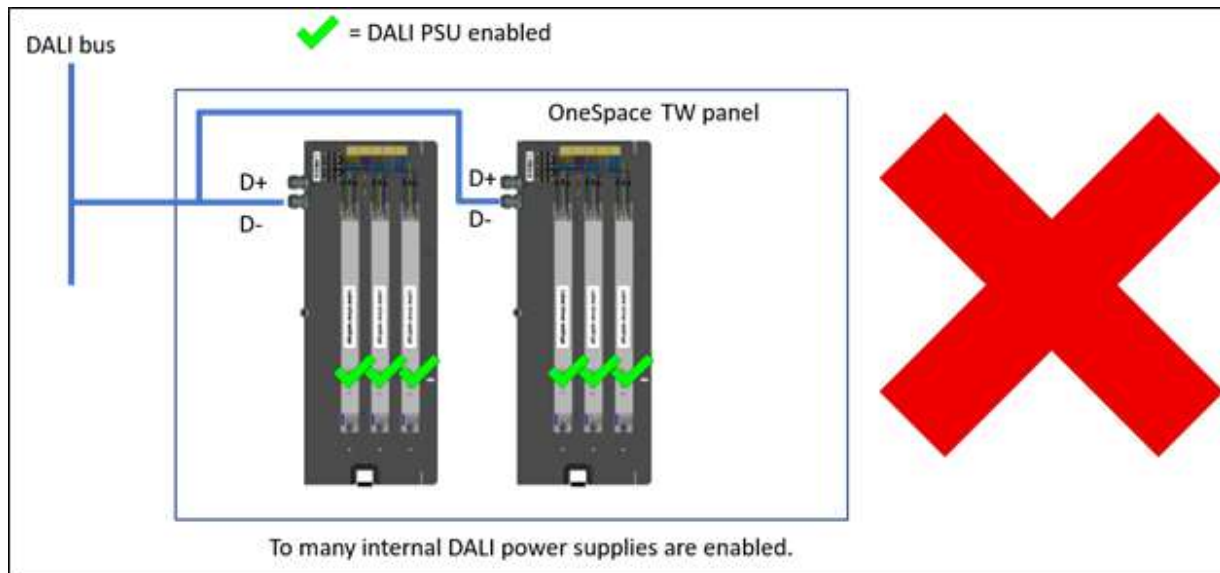


Figure 7: Too much DALI PSU's in 1 network – NOT ALLOWED

## 4 Enabling the internal DALI power supply

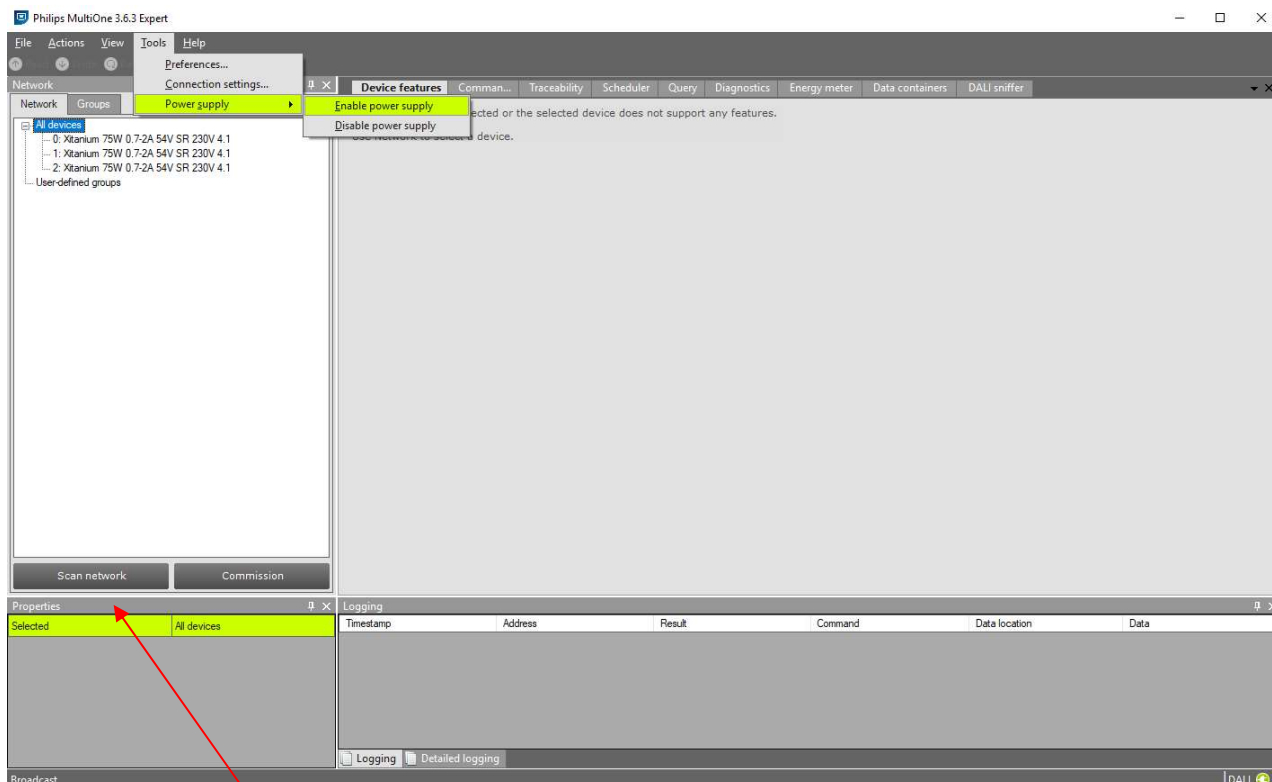
To enable or disable the internal DALI power supply you need a Philips MultiOne interface or Philips SimpleSet NFC tool. Make sure that you only change the settings of the DALI power supply, any other change may lead to a malfunction of the OneSpace panel.

### 4.1 Enabling the internal DALI power supply with Philips MultiOne



**WARNING:** ENSURE THAT THE MAINS POWER SUPPLY IS OFF OR DISCONNECTED FROM THE E-BOX BEFORE WORKING INSIDE THE E-BOX.

- Connect MultiOne interface to the DALI interface of the E-box where the internal DALI power supply needs to be enabled. Make sure that no other DALI devices are connected to the DALI bus.
- Open MultiOne and make sure that the power supply of MultiOne is enabled (tools -> power supply -> enable power supply)



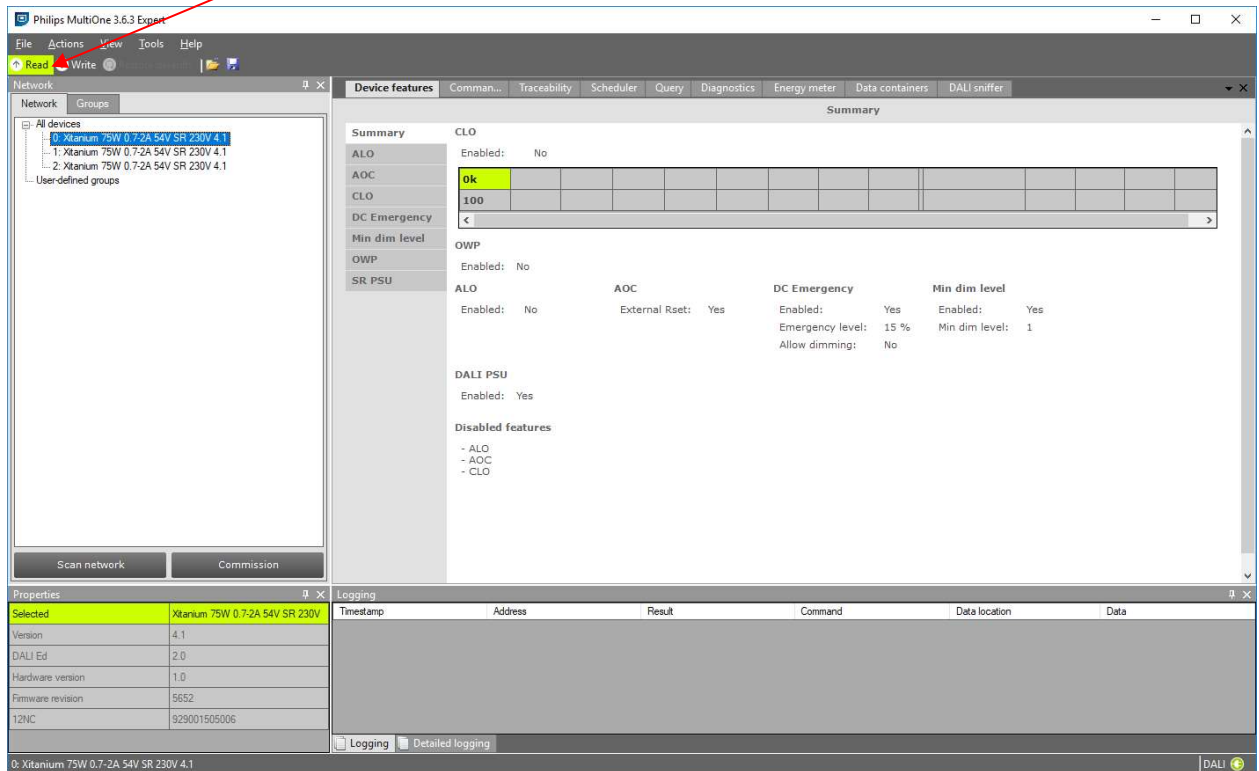
- Press the **Scan network** button. MultiOne starts searching for drivers.

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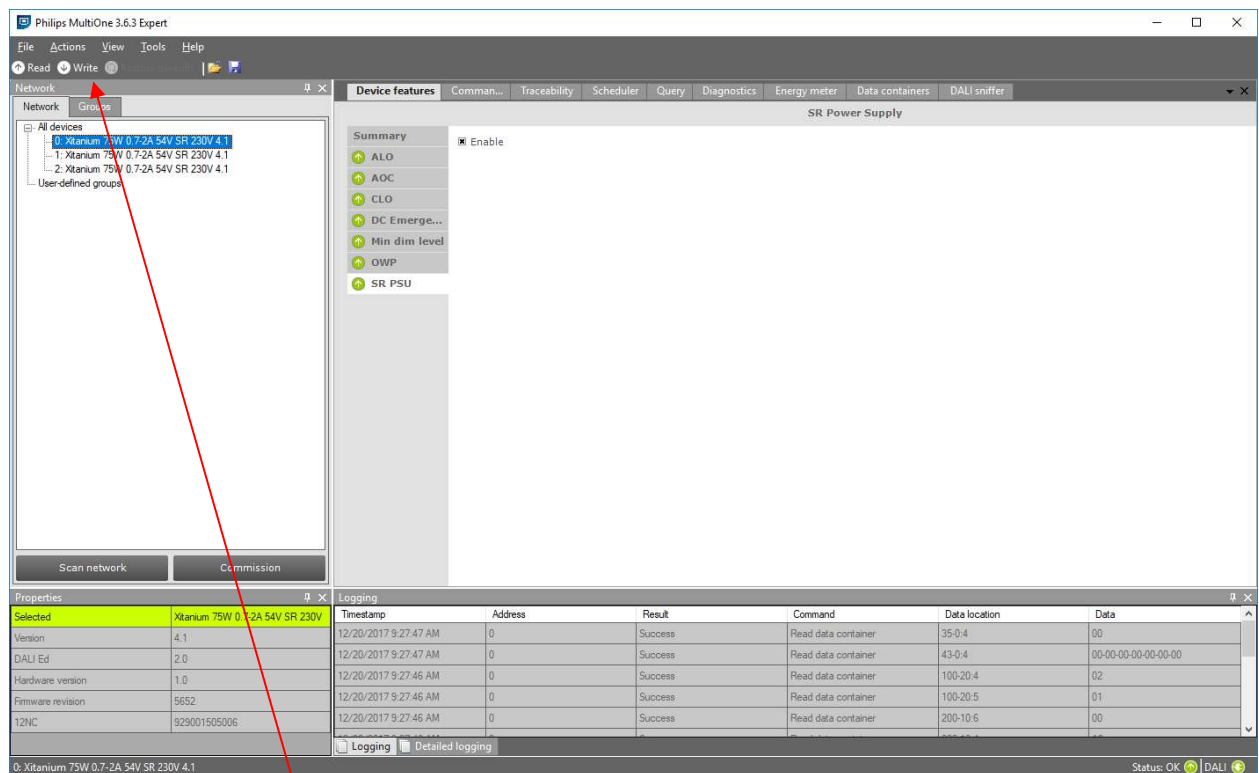
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- In this example 3 drivers are found. Select driver with short address 0
- Click the **Read** button to retrieve the settings of this driver



- Click on SR PSU and select the Enable checkbox



- Click on the **Write** button, a pop-up screen will appear and deselect all except for the SR Power Supply checkbox

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**Write feature configuration**

Please indicate which feature configurations need to be written.

**Features**

- ☐ (De)select all
- ☐ Adjustable Light Output
- ☐ Adjustable Output Current
- ☐ Constant Light Output
- ☐ DC Emergency
- ☐ Min dim level
- ☐ OEM Write Protection
- ☒ SR Power Supply

☐ The device already has an OWP password

Indicates that the feature can be OEM Write-protected.  
When clicking Write, the following actions will be performed:

- Write feature configuration
- Verify feature configuration

You can adjust this behavior in the preferences.

**Write** **Cancel**

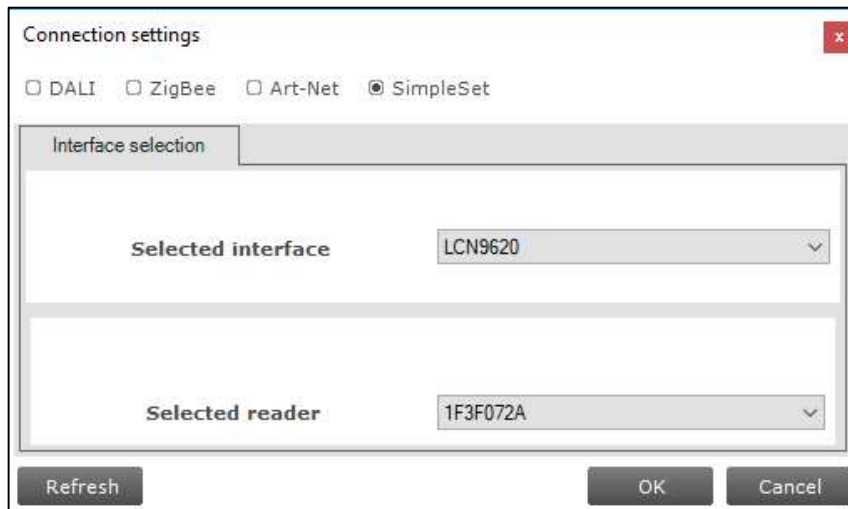
- Click the Write button to flash the setting to the selected driver
- Do the same for the rest of the drivers if applicable.

## 4.2 Enabling the internal DALI power supply with Philips SimpleSet

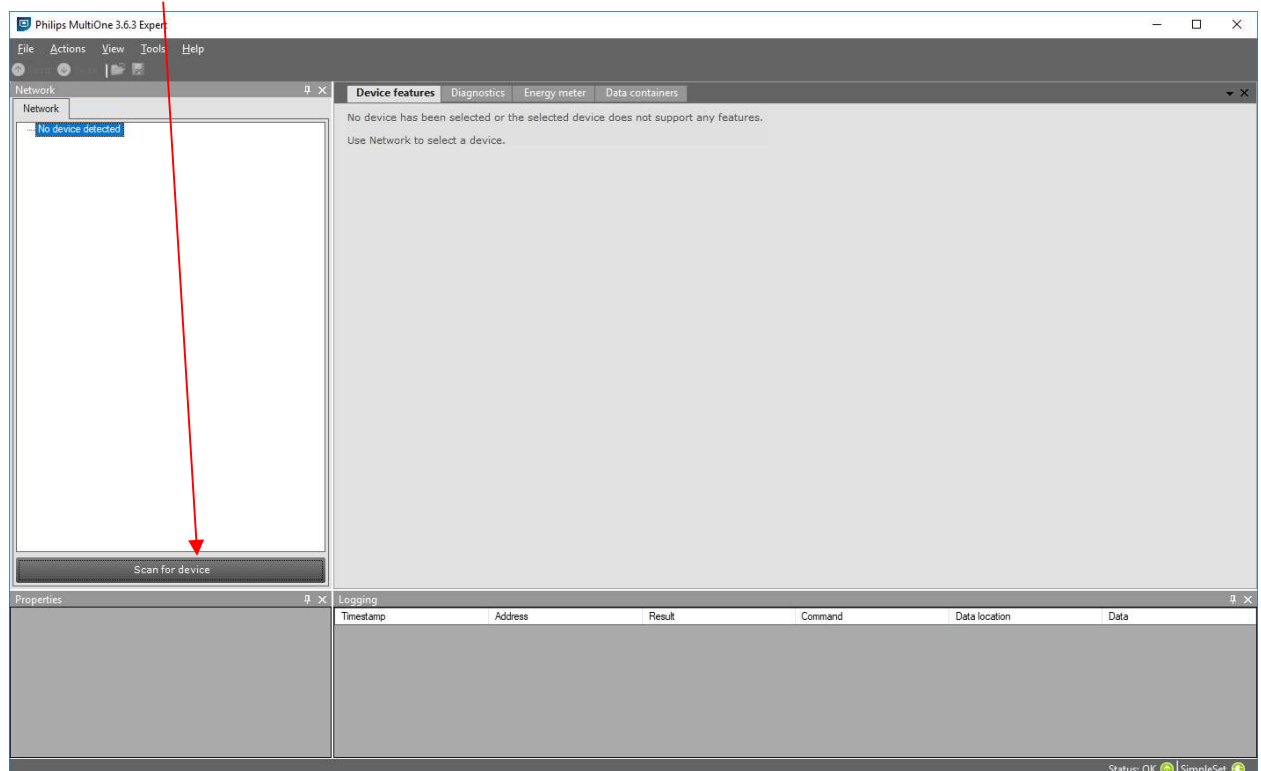


**WARNING:** ENSURE THAT THE MAINS POWER SUPPLY IS OFF OR DISCONNECTED FROM THE E-BOX BEFORE WORKING INSIDE THE E-BOX.

- Open the E-box.
- Open MultiOne software and select the SimpleSet under tool -> connection settings



Click on **Scan for device** button.

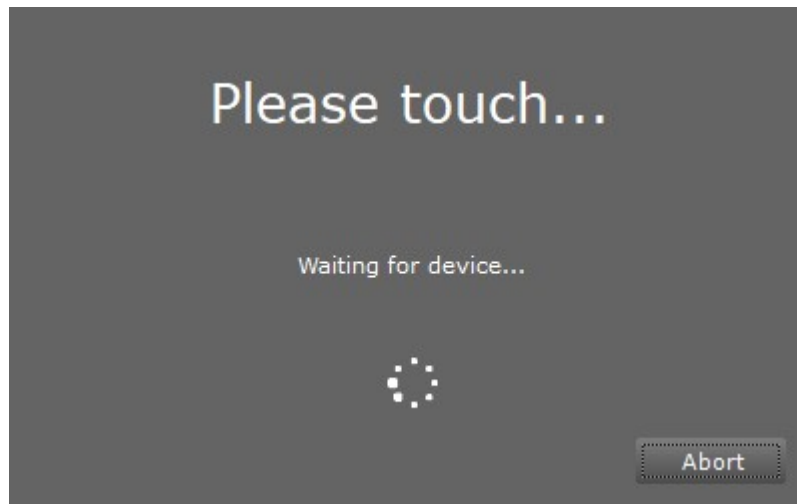


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- A pop-up will appear, requesting to hold the NFC tool close to the blue antenna of the corresponding driver.



- After scanning the device, click on **SR PSU**

**Summary**

| OK  | 1k  | 2k  | 3k  | 4k  | 5k  | 6k  | 7k  | 8k  | 10k | 11k | 12k | 13k | 14k | 1 |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|
| 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 1 |

**OWP**

Enabled: No

**ALO**

Enabled: Yes  
Output: 1 %  
ALO min: 0 %

**AOC**

External Rset: No  
Current: 700 mA

**DC Emergency**

Enabled: Yes  
Emergency level: 10 %  
Allow dimming: No

**Min dim level**

Enabled: Yes  
Min dim level: 1

**DALI PSU**

Enabled: No

**Disabled features**

- CLO
- SR PSU

**Properties**

| Selected          | Xitanium 75W 0.7-2A 54V SR 230V |
|-------------------|---------------------------------|
| Version           | 4.1                             |
| 12NC              | 929001505006                    |
| Device type       | LED                             |
| Firmware revision | 5652                            |
| Device identifier | E00259A0C90B635F                |

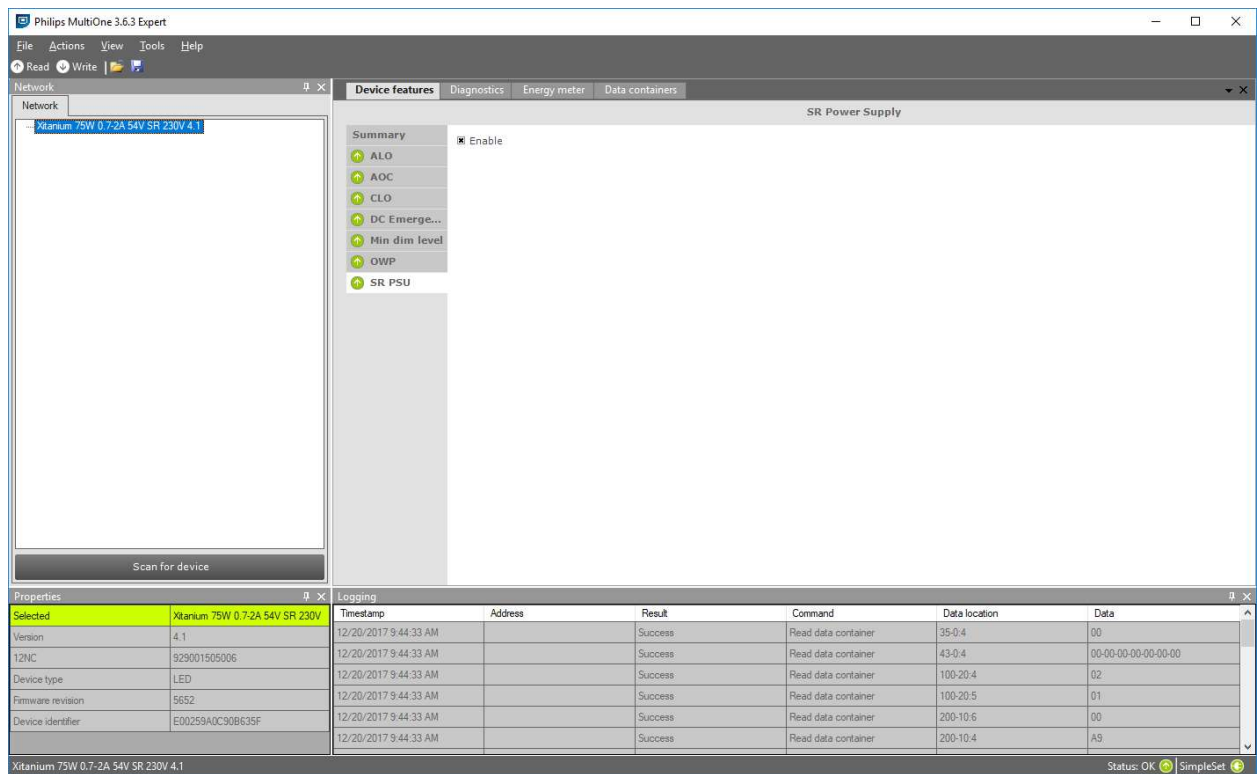
**Logging**

| Timestamp             | Address | Result  | Command             | Data location | Data              |
|-----------------------|---------|---------|---------------------|---------------|-------------------|
| 12/20/2017 9:44:33 AM |         | Success | Read data container | 35-0:4        | 00                |
| 12/20/2017 9:44:33 AM |         | Success | Read data container | 43-0:4        | 00-00-00-00-00-00 |
| 12/20/2017 9:44:33 AM |         | Success | Read data container | 100-20:4      | 02                |
| 12/20/2017 9:44:33 AM |         | Success | Read data container | 100-20:5      | 01                |
| 12/20/2017 9:44:33 AM |         | Success | Read data container | 200-10:6      | 00                |
| 12/20/2017 9:44:33 AM |         | Success | Read data container | 200-10:4      | A9                |

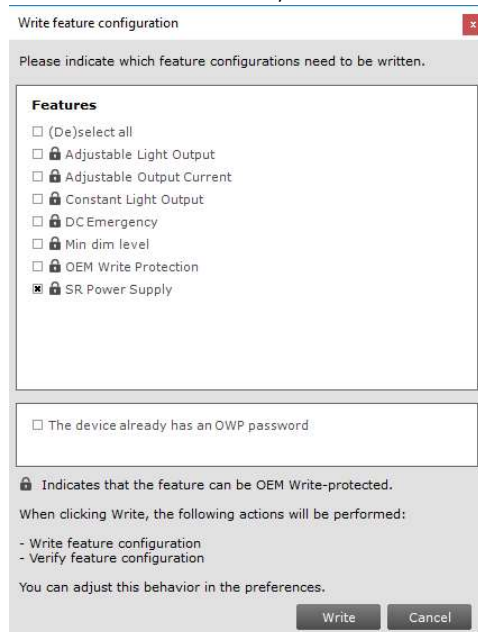
Xitanium 75W 0.7-2A 54V SR 230V 4.1

Status: OK SimpleSet

- Enable the checkbox



- Click the Write button, and deselect all except for the SR Power Supply checkbox



- Click the write button and hold the NFC tool close to the blue antenna of the driver.
- When all data is written to the driver the SR PSU should be green

The screenshot shows the Philips MultiOne 3.6.3 Expert software interface. The main window displays the 'Device features' tab for the 'SR Power Supply'. A red arrow points to the 'SR PSU' feature, which is currently green and has a checkmark icon. The 'Summary' section shows 'Enable' checked. The 'Properties' panel on the left lists the device details: 'Xitanium 75W 0.7-2A 54V SR 230V 4.1'. The 'Logging' panel at the bottom shows a table of operations with columns for Timestamp, Address, Result, Command, Data location, and Data.

| Timestamp             | Address | Result  | Command              | Data location | Data |
|-----------------------|---------|---------|----------------------|---------------|------|
| 12/20/2017 9:48:13 AM |         | Success | Read data container  | 35-0.4        | 01   |
| 12/20/2017 9:48:13 AM |         | Success | Write data container | 35-0.2        | FF   |
| 12/20/2017 9:48:13 AM |         | Success | Write data container | 35-0.4        | 01   |
| 12/20/2017 9:48:13 AM |         | Success | Write data container | 35-0.2        | 55   |
| 12/20/2017 9:48:13 AM |         | Success | Read data container  | 43-0.3        | 03   |
| 12/20/2017 9:48:13 AM |         | Success | Read data container  | 43-0.0        | 0A   |

Properties: Xitanium 75W 0.7-2A 54V SR 230V 4.1

Status: OK SimpleSet