## UNIVERSAL DOUBLE SWITCH



WDS 1.04 Installation and Operating Instructions


Revision History

| Rev. <br> Doc. | Date | Revisor | Page | Description |
| :--- | :--- | :--- | :--- | :--- |
| 1 | $23 / 09 / 2015$ | RC | All | Initial Draft |
| 2 | $23 / 10 / 2015$ | GG | All | Minor changes |
| 3 | $19 / 05 / 2016$ | RC | 8 | Added IN_OUT configuration in Parameter No. 1 |
|  |  |  | 9 | Added SEQUENCING RELAY and SELECTOR configurations in <br> Parameter No. 3. |
|  |  |  | 11 | Changed order of timer parameters |
|  |  |  | 13 | Removed AUTOMATIC_RECOGNITION from Parameter No.62 |
| 4 | $20 / 06 / 2016$ | RC | 3 | Mill |
|  |  |  |  |  |

## Device Description



| Line | Phase connection terminal |
| :--- | :--- |
| Null | Neutral connection terminal |
| Null Signal 1 | Neutral signal to activate the output 1 |
| Null Signal 2 | Neutral signal to activate the output 2 |
| Output 1 | Phase Output 1 referred to Neutral |
| Output 2 | Phase Output 2 referred to Neutral |
| Push Button | Service button: 1 click to add the device to the Z-Wave network, 3 clicks to <br> remove it, 6 clicks to reset to factory settings |

## Technical Specifications

| Power Supply | 230 VAC $\pm 10 \% 50 / 60 \mathrm{~Hz}$ |
| :--- | :--- |
| Maximum Load on Relay | Resistive Loads: 8 A for each channel; 10 A for both channels |
| Limit Temperature | $105^{\circ} \mathrm{C}$ |
| Work Temperature | $-10-40^{\circ} \mathrm{C}$ |
| Radio Protocol | Z-Wave $868,4 \mathrm{MHz}$ |
| Radio Range | Up to 100 m outdoor <br> Up to 40 m indoor |
| Dimensions (WxDxH) | $37 \times 37 \times 17 \mathrm{~mm}$ |
| Consumption | $<260 \mathrm{~mW}$ in standby <br> $<480 \mathrm{~mW}$ with one working load <br> $<700 \mathrm{~mW}$ with both working loads |
| Electrical IP Rating | IP 20 |
| Actuator element | Relay |
| Conformity | CE, RoHS |

## Introduction

Universal Double Switch is an ON/OFF control device designed to independently control two separate loads, suited for use as both a local and remote switch. Similarly to the other WiDom "in wall" devices, it can be fully integrated into pre-existing systems and configured to associate configurable behaviours to a specific number of clicks, in full integration with the Z-Wave home automation ecosystem.

Each of its two channels features an integrated consumption measurement device. The Universal Double Switch also boasts the lowest energy consumption on the market.
At the same time, it is completely configurable so that it can adapt to the most varied needs while also being ready to be used without needing additional configurations in order to operate.

Thanks to the framework developed by WiDom, the various types of "events" on the "External Switch" can be recognised and associated to actions to be performed on the device, on any associated devices, on all devices on the network. The events that the system recognises are the number of "clicks" or hold on the External Switch.

External switch: External button or switch connected to the input I1 or I2
Events: The actions performed on the external Switch: Clicks or Hold.
Click: If the external switch is a button (when pressed it autonomously returns to the initial position), a click means pressing and then releasing it. If the external switch is bistable (when pressed it does not return to the initial position), a single click means one single flip of the switch.

## Installation

INFO: WiDom Universal Double Switch is designed for installation in flush mounting boxes, close to the loads to be controlled.

WARNING: WiDom Universal Double Switch must be installed by electricians qualified to operate on electrical systems in compliance with safety requirements set out by current regulations.

DANGER: WiDom Universal Double Switch must be connected to 230V AC voltage mains supplies; please ensure that the general switch is in the OFF position prior to carrying out any operation.
DANGER: Any operation requiring the use of service button (B) must only be carried out during the installation phase and must be considered as a service procedure to be performed by qualified personnel. This operation must be carried out by adopting all necessary precautions to operate on areas with a single level of isolation.


WARNING: Do not connect loads exceeding the maximum power load permitted by the relay contacts.


WARNING: All connections must be performed according to the electrical diagrams provided.
WARNING: WiDom Universal Double Switch must be installed in norm-compliant systems suitably protected from overloads and short circuits.

## WiDom Universal Double Switch Activation

1) Ensure that the main power switch is set in the OFF position
2) Connect the device following the diagrams provided
3) Shut the electrical box containing the device
4) Turn the main power switch back on
5) Include the device into the Z-Wave network

TIP: The antenna must not be shortened, removed or modified. To ensure maximum efficiency, it must be installed as shown. Large size metal equipment near the antenna can negatively affect reception. Each WiDom device is a node in a mesh network. If there are metal obstacles, the obstacle can often be overcome with a further triangulation node.


## Electrical Connections

The device must be supplied by phase and neutral. Connections must be made according to one of the diagrams below.


1. WARNING: The line must be properly protected from overloads and short circuits related to a possible failure of the loads connected to the output O1 and O2.

## Reset to factory settings

The device can be reset to the original factory settings by means of one of the following methods:
Method 1: Remove the device from the Z-Wave network;
Method 2: Six consecutive clicks on (B) button or on one of the buttons/switches connected to I1 or I2 within 1 minute from system start-up;

Method 3: Set the parameter 61 to 0 - FACTORY RESET (see Configuration Parameters).

INFO: If the device is reset when included in a network, the latter will notify its removal (Device Reset Locally Notification). Conversely, if WiDom Universal Double Switch receives a notification of removal of another device from the network, this device will be removed from its associations.

## Including (Add) the device into an existing Z-Wave network

WiDom Universal Double Switch can be included into any Z-Wave network and operate with Z-Wave devices from any other manufacturer. WiDom Universal Double Switch, used as a constantly powered node, will act as a signal repeater to increase the network reliability.

The device supports both the Network Wide Inclusion (which offers the opportunity of inclusion into a network even if the device is not directly connected to the controller) and the Normal Inclusion mechanisms.
If the device is not included into a Z-Wave network, a single click on the (B) button or on one of the external switches will launch the process of traditional inclusion. If the device inclusion procedure does not start within 2 seconds, the Network Wide Inclusion network will be launched lasting a variable amount of time between 15-30 seconds.

INFO: Through the inclusion procedure, activated with a single click on one of the external switches, the system determines the type of external switch (see parameter No. 62).

## Excluding (Remove) the device from a Z-Wave network

Only a controller can remove a device from the network. WiDom Universal Double Switch is compatible with all Z-Wave certified controllers. After the exclusion procedure has been activated by the controller, the device can be removed, putting it in Exclusion Mode by three consecutive clicks on the (B) button or on the external switch, when available.

## Associations

WiDom Universal Double Switch is a device with two independent channels, each of which can be controlled independently. WiDom Universal Double Switch can control other devices both of traditional and multi-channel type.

WiDom Universal Double Switch can control other devices such as relays or dimmers. WiDom Universal Double Switch supports 5 association groups, each of which supports the association of up to 8 devices:

| Group ID | Group Name | Profile | Commands received | Description |
| :--- | :--- | :--- | :--- | :--- |
| 1 | LifeLine <br> Group | General: <br> LifeLine | Switch Binary Report, <br> Device Reset Locally <br> Notification, Meter <br> Report | Devices to receive notifications on: <br> status changes; instantaneous <br> power level; device local reset |
| 2 | On/Off control <br> (Switch 1) | Control:Key1 | Switch Binary Set | Devices controlled by switch 1 |
| 3 | Dimming <br> control <br> (Switch 1) | Control:Key1 | Basic Set | Devices controlled by switch 1 |
| 4 | On/Off control <br> (Switch 2) | Control:Key2 | Switch Binary Set | Devices controlled by switch 2 |
| 5 | Dimming <br> control <br> (Switch 2) | Control:Key2 | Basic Set | Devices controlled by switch 2 |

TIP: WiDom Universal Double Switch can control up to 8 devices for every group. In order to prevent the network from slowing down it is advisable to limit the associated devices to no more than 5 per group.

## Controlling the device with external switch

With WiDom devices, the normal switches/buttons found in a traditional electrical system can become intelligent control systems.

## Controlling the device through Z-Wave network

All Z-Wave controllers can control the device by using the Basic Set command.
The behaviour of the device based on its status and the commands received from the network can also be configured.

## Switch ALL ON/OFF

By default, WiDom Universal Double Switch accepts Switch All ON/OFF commands.

## Timer Management

Timer management for each independent channel both switch on and switch off.

## Energy management

Each of two channels has an independent meter of energy consumed.

## Firmware Update

The system supports over-the-air firmware updates that do not require the device to be removed from its location. The firmware update can be activated from all certified controllers supporting version 2 of the Firmware Update function. The firmware update procedure must be enabled on the device with four consecutive clicks. The activation lasts 10 seconds, after which the firmware update procedure will need to be re-enabled if it has not been activated in the first instance.

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WARNING: The system will be rebooted at the end of the firmware update procedure. If a load is connected to the relay output, it will be disconnected and reconnected, depending on the settings configured for system rebooting. It is advisable to carry out the firmware update procedure only when necessary and following careful planning of the intervention.

## Configurations

The output O 1 is controlled by events on the switch connected to I , the output O 2 is controlled by events on the switch connected to I2. The change of status of the two channels depends on the initial status and on the number of clicks.

Parameter No. 1: Outputs status upon receipt of 1 click on its command (1 byte)
Defines the status of the output O1/O2 when the switch connected to I1/I2 receives 1 Click.

| Configuration | Initial Status of the channel | Final Status |
| :---: | :---: | :---: |
| O-IN_OUT | ON | The I2 input is propagated on the O2 output. The output is close if the input is low and the output is open if the input is high. The O1 output works as in TOGGLE configuration. |
|  | OFF |  |
| 1 - TOGGLE <br> (Default Value) | ON | OFF |
|  | OFF | ON |
| 2 - ON | ON | If the initial status is OFF the system switches to $\mathbf{O N}$; conversely, it maintains its status (ON). |
|  | OFF |  |
| 3 - OFF | ON | If the initial status is ON the system switches to OFF; conversely, it maintains its status (OFF). |
|  | OFF |  |
| 4 - IGNORE | ON | The device maintains the initial status |
|  | OFF |  |

INFO: 0 - IN_OUT configuration is available on WiDom Universal Double Switch starting from the firmware version 1.40.

Parameter No. 2: Outputs status upon receipt of 2 clicks on its command (1 byte)
Defines the status of the output O1/O2 when the switch connected to I1/I2 receives 2 Click.

| Configuration | Initial Status of <br> the channel | Final Status |
| :--- | :--- | :--- |
|  | ON | OFF |
| $2-2$ OFF | ON |  |
| 3 - OFF | ON | If the initial status is OFF the system switches to ON; |
|  |  |  |

## Parameter No. 3: Type of outputs (1 byte)

Defines if the outputs are controlled individually, as a traditional device with two channels, or if its behaviour simulates a single pole double throw relay.

| Configuration | Device reaction |
| :--- | :--- |
| $0-$ SINGLE CHANNELS <br> (Default Value) | Channel 1 and Channel 2 are controlled individually |
| From 1 to $9-$ SINGLE POLE <br> DOUBLE THROW RELAY | The two channels are in opposite status. If the Channel 1 is close the <br> Channel 2 is open, if the Channel 1 is open the Channel 2 is close. The <br> value of the parameter defines the closing delay of the relay in tenth of <br> seconds |
| From 10 to 19 - SEQUENCING <br> RELAY | Channels are toggled in this way: both channels ON, only channel 1 ON, <br> only channel 2 ON, both channels OFF. The value of the parameter, <br> deducted of 9, defines the closing delay of the relay in tenth of seconds. |
| From 20 to 39 - SELECTOR | Both channels can be OFF but they can never be ON simultaneously. It <br> can be used for fan coil control, roller shutters, and in general for two- <br> speed systems. The value of the parameter, deducted of 19, defines the <br> closing delay of the relay in tenth of seconds. |

INFO: 0 - IN_OUT configuration is available on WiDom Universal Double Switch starting from the firmware version 1.40.

## Controlling the associated devices

Define the events that control the associated devices.

## Parameter No. 4: Number of clicks that activate the control of the associated devices (1 byte)

Defines the number of clicks on the Switch 1 or Switch 2 that enable the control of the correspondent associated devices.

| Configuration | Device reaction |
| :--- | :--- |
| 1 - 1 CLICK | Associated devices are controlled by 1 Click on the correspondent <br> external switch |
| $2-2$ CLICKS <br> (Default Value) | Associated devices are controlled by 2 Clicks on the correspondent <br> external switch |

TIP: Through this parameter, together the setting of the parameters 1 and 2, it is possible to control simultaneously the local load and the associated devices (e.g. 1 click control both local load and associated devices) or in totally independent way (e.g. 1 click control only the local load, 2 clicks control only the associated devices).

## Parameter No. 5: Level used to control the devices associated to group 2 and 3 (1 byte)

Defines how to control the devices associated to group 2 and 3.

| Configuration | Action performed on the associated device |
| :---: | :---: |
| 0-SWITCH_OFF | The associated devices are switched OFF |
| -1 - SWITCH_ON | The associated devices are switched ON |
| From 1 to 99 | The associated devices (dimmer, roller shutters) are set to the indicated level (only for devices associated to group 3) |
| 100 - RELAY_STATUS (Default Value) | If the Relay 1 is ON/OFF, the associated devices are ON/OFF |
| 101 - RELAY_STATUS_BUT_IGNORE_IF_OFF | If the Relay 1 is ON the associated devices are ON; if it is OFF no action is taken on the associated devices |
| 102 - RELAY_STATUS_BUT_IGNORE_IF_ON | If the Relay 1 is OFF the associated devices are OFF; if it is ON no action is taken on the associated devices |
| 103 - RELAY_OPPOSITE_BUT_IGNORE_IF_OFF | If the Relay 1 is ON the associated devices are OFF; if it is OFF no action is taken on the associated devices |
| 104 - RELAY_OPPOSITE_BUT_IGNORE_IF_ON | If the Relay 1 is OFF the associated devices are ON ; if it is ON no action is taken on the associated devices |
| 105 - RELAY_OPPOSITE | If the Relay 1 is ON/OFF, the associated devices are OFF/ON |
| 106 - IGNORE | No action is taken on the associated devices |

Parameter No. 6: Level used to control the devices associated to group 4 and 5 (1 byte)
Defines how to control the devices associated to group 4 and 5.

| Configuration | Action performed on the associated device |
| :---: | :---: |
| 0 - SWITCH_OFF | The associated devices are switched OFF |
| -1 - SWITCH_ON | The associated devices are switched ON |
| From 1 to 99 | The associated devices (dimmer, roller shutters) are set to the indicated level (only for devices associated to group 5) |
| 100 - RELAY_STATUS (Default Value) | If the Relay 2 is ON/OFF, the associated devices are ON/OFF |
| 101 - RELAY_STATUS_BUT_IGNORE_IF_OFF | If the Relay 2 is ON the associated devices are ON; if it is OFF no action is taken on the associated devices |
| 102 - RELAY_STATUS_BUT_IGNORE_IF_ON | If the Relay 2 is OFF the associated devices are OFF; if it is ON no action is taken on the associated devices |
| 103 - RELAY_OPPOSITE_BUT_IGNORE_IF_OFF | If the Relay 2 is ON the associated devices are OFF; if it is OFF no action is taken on the associated devices |
| 104 - RELAY_OPPOSITE_BUT_IGNORE_IF_ON | If the Relay 2 is OFF the associated devices are ON ; if it is ON no action is taken on the associated devices |
| 105 - RELAY_OPPOSITE | If the Relay 2 is ON/OFF, the associated devices are OFF/ON |
| 106 - IGNORE | No action is taken on the associated devices |

## Timer management

## Parameter No. 10 (0xA): Timer to switch OFF the Channel 1 (2 byte)

Defines the time after which the Channel 1 is switched OFF.

| Configuration | Device reaction |
| :--- | :--- |
| $\boldsymbol{0}$ <br> (Default Value) | Timer disabled |
| From 1 to 32000 (seconds) | After this time the relay of the Channel 1 is OFF |

## Parameter No. 11 (0xB): Timer to switch OFF the Channel 2 ( 2 byte)

Defines the time after which the Channel 2 is switched OFF.

| Configuration | Device reaction |
| :--- | :--- |
| 0 <br> (Default Value) | Timer disabled |
| From 1 to 32000 (seconds) | After this time the relay of the Channel 2 is OFF |

## Parameter No. 12 (0xC): Timer to switch ON the Channel 1 (2 byte)

Defines the time after which the Channel 1 is switched ON.

| Configuration | Device reaction |
| :--- | :--- |
| 0 <br> (Default Value) | Timer disabled |
| From 1 to 3200 (seconds) | After this time the relay of the Channel 1 is ON |

Parameter No. 13 (0xD): Timer to switch ON the Channel 2 (2 byte)
Defines the time after which the Channel 2 is switched ON.

| Configuration | Device reaction |
| :--- | :--- |
| 0 <br> (Default Value) | Timer disabled |
| From 1 to 32000 (seconds) | After this time the relay of the Channel 2 is ON |

## Controlling the device through Z-Wave network

Parameter No. 20 (0x14): Outputs status upon receipt of a Multi-Channel Basic Set command (1 byte)
The two channels can be controlled individually by Z-Wave network. The status of the channels upon receipt of a Multi-Channel Basic Set command is defined by the value set on the parameter.

| Configuration | Command received | Final Status |
| :---: | :---: | :---: |
| 1 - AS RECEIVED (Default Value) | ON | ON |
|  | OFF | OFF |
| 2 - IGNORE IF ON | ON | Maintains the initial status |
|  | OFF | OFF |
| 3 - IGNORE IF OFF | ON | ON |
|  | OFF | Maintains the initial status |
| 4 - IGNORE | ON | Maintains the initial status |
|  | OFF |  |

Parameter No. 21 (0x15): Outputs status upon receipt of a Basic Set command (1 byte)
The channels of the device can be controlled individually from all other Z-Wave devices that support the multichannel feature. In order to support also the integration with no-multichannel systems, this parameter allows to define if the receipt of a no-multichannel command controls only the Channel 1 or both.

| Configuration | Device reaction |
| :--- | :--- |
| 1 - CHANNEL 1 | The receipt of a Basic Set ON/OFF set the Channel 1 to ON/OFF |
| $3-$ BOTH CHANNELS <br> (Default Value) | The receipt of a Basic Set ON/OFF set both the Channel 1 and the <br> Channel 2 to ON/OFF |

## Other configuration parameters

Parameter No. 60 (0x3C): Start-up status (1 byte)
Defines the status of the device following a restart.

| Configuration | Device reaction |
| :--- | :--- |
| 0 - OFF_OFF | Both Relay 1 and Relay 2 OFF |
| 1 - ON_OFF | Relay 1 ON, Relay 2 OFF |
| 2 - OFF_ON | Relay 1 OFF, Relay 2 ON |
| 3 - ON_ON | Both Relay 1 and Relay 2 ON |
| $4-$ PREVIOUS STATUS <br> (Default value) | Status prior to restart |

## Parameter No. 61 (0x3D): Configuration reset (1 byte)

Defines which parameters should be reset to default values.

| Configuration | Device reaction |
| :--- | :--- |
| 0 - FACTORY RESET | The device is reset to the original factory settings |
| 1 - ASSOCIATIONS RESET | All associations and only the associations are reset |
| 2 - CONFIGURATIONS RESET | The associations are maintained while all other configuration parameters <br> are reset to the original factory settings, except for the specific configuration. |
| 3 - RESTART DEVICE | The device will be restarted |
| $4-$ IGNORE <br> (Default value) | No action is performed |

Parameter No. 62 (0x3E): Type of external switch (1 byte)
Defines the type of external switch connected to the device.

| Configuration | Device reaction |
| :--- | :--- |
| 0 - IGNORE | The actions on the external switch are ignored. In this mode, the device <br> can only be controlled via the network. |
| 1 - BUTTON <br> (Default value) | The external switch is a normally open button |
| 2 - SWITCH | The external switch is a traditional switch |

## Disposing the devices



This product bears the selective sorting symbol for waste electrical and electronic equipment (WEEE).

This means that this product must be handled pursuant to European Directive 2002/96/EC in order to be recycled or dismantled to minimize its impact on the environment.
For further information, please contact your local or regional authorities.
Electronic products not included in the selective sorting process are potentially dangerous for the environment and human health due to the presence of hazardous substances.

## Compliance with directives

WiDom devices are built in compliance with directives LVD 2006/95/EC, EMC 2004/108/CE and R\&TTE
Widom shall not be held responsible for any damage caused by these devices if they are used in a manner that is not compliant with the instructions in this manual. WiDom reserves the right to make any changes to the product that it considers necessary or useful without jeopardising its primary features.

## Warranty

This warranty is provided by WiDom srl (hereinafter "WiDom") based in Quartu S.Elena 09045 (CA), Italy (VAT number 03452490927).

WiDom warrants to the original purchaser (hereinafter "Customer") that the device sold under this agreement (hereinafter "Device") is free from defects in parts and workmanship under normal use for 12 months from date of purchase ("Warranty Period").
The original purchase invoice or sales receipt, showing the date of purchase is the proof of date of purchase by the Customer.
If a Device, sold by WiDom to the Customer, has manufacturing defects or in any case of alleged lack of conformity, the Customer shall send within thirty (30) days from the day in which he discovers such defects, a claim form by using the web site (www.widom.it) informing WiDom on the full name of the Customer, the nature of the defects and the date in which the Devices has been purchased.

Warranty Claims received after the expiration of the Warranty Period shall not be considered valid.
Once WiDom, receives the Warranty Claim, it shall inform the Customer by e-mail or letter, if the Warranty is applicable and the address where the Device shall be sent in order to verify the defects (if any). Customer must prepay shipping and transportation charges as indicated by WiDom. The Device shall be sent by the Customer to WiDom at its own costs and expenses, by express courier or hand delivered, and with the original packaging, the supplied accessories (if any) and documents proving date of purchase. WiDom shall then inform the Customer about the defects and on its repair or replacement (where applicable). Should WiDom not evidence defects on the Device, the Device shall be returned to the Customer.

Should WiDom notices the defects, and this warranty is applicable, it will remove, at its sole discretion, any defect, free of charge, by repairing any defective components of the Device with new or regenerated components or by replacing the Device. The Warranty Period of the replaced or repaired Device shall not be extended.
WiDom will ship the repaired or a replaced Device to Customer freight prepaid.
WiDom will not be liable for damages to property caused by faulty device. WiDom will not be liable for indirect, incidental, special, consequential or punitive damages, or for any damage, including, inter alia, loss of profits, savings, data, loss of benefits, claims by third parties and any property damage or personal injuries arising from or related to the use of the Device.
If the Device cannot be replaced with another of the same type (e.g. the Device is no longer in production or no longer available for selling in the Customer's country), it may be replaced with a different one having similar technical specifications to the faulty one. Such replacement shall be considered as a total fulfilment of WiDom's obligations.

## Warranty exclusion

- defects caused by normal wear of parts or especially subject to wear, such as parts that require periodic replacement during the normal operation of the system (e.g. Batteries);
- splits, cracks, scratches, dents, scratched or discolored surfaces and parts, breakage of plastic parts and in general of any other cosmetic damage;
- damages resulting from use of the system other than that provided, including but not limited to the failure to follow instructions contained in the operating manual;
- damages caused by accident, abuse, misuse, dirt, viruses, liquid contact, fire, earthquake, improper or inadequate maintenance or calibration, negligence or other external causes;
- environmental damage and / or defects caused by smoke, dust, dirt, soot, or other external influences;
- damages caused by modifications and alterations in the functionality or features without the written permission of WiDom;
- damages resulting from transportation or inadequate packaging when returning the product to a WiDom or to an authorize service center;
- defects caused by force majeure events such as lightning, floods, fires, incorrect voltage, improper ventilation;
- damages caused by malfunctioning software, computer virus attack, or by failure to update the software as recommended by WiDom;
- damages resulting from surges in the power and/or telecommunication network, improper connection to the grid in a manner inconsistent with the operating manual, or from connecting other devices not recommended by WiDom;
- damages caused by operating or storing the device in extremely adverse conditions, i.e. high humidity, dust, too low (freezing) or too high ambient temperature;
- products whose serial number has been removed, damaged or rendered illegible;
- expiration of the Warranty Period.

If a defect is not covered by the Warranty, WiDom will inform the Customer about the extra expenses for the repair or replacement.

This warranty may be subject to changes. Please check at www.widom.it the newest warranty claim procedure.
This guarantee shall not exclude, limit or suspend the Customer rights when the provided product is inconsistent with the purchase agreement.
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