Somfy Sonesse 30 PoE Core Node Test

Ecosystem Integration Test (EIT)

- Date: 2026-03-20
- Objective: Demonstrate compatibility between Cisco 9300, MHT Core Node, and Somfy Sonesse 30 PoE shade motor

Device Under Test

- Model: Sonesse 30 PoE
- Power: 18W PoE
- Hostname: sfy_poe_000355
- Pin code: 2664

Supporting Equipment

- PoE Node: MHT Inspextor Core Node
- Hostname: inx-a0395b
- Firmware: 2.29.2 (Gateway) 2.18.0 (Driver)
- PoE Switch: Cisco Catalyst 9300 24H

Node Configuration

- Use the shade resource to configure a Somfy PoE shade

Wiring

- Connect
  - Somfy to PoE port

Results

- [x] Verify Firmware Version: "version":"2.29.2" gateway, "version":"2.18.0" driver

```
curl -k -X GET \
 https://inx-a0395b.local/inx/version


{
  "name": "mini_node_gateway",
  "hw_rev": "4",
  "version": "2.29.2",
  "date": "Mar 16 2026",
  "time": "12:28:52",
  "idf_version": "v5.2.5-dirty",
  "chip_model": "ESP32-C6",
  "chip_features": "/802.11bgn/BLE/802.15.4/External-Flash:4 MB\r\n",
  "chip_revision_number": "1"
}


curl -k -X GET \
 https://inx-a0395b.local/inx/drivers/0/version


{
  "name": "mini_node_driver_48V",
  "version": "2.18.0",
  "date": "Mar_16_2026",
  "time": "12:07:19",
  "idf": "v5.2.5-dirty",
  "chip": "ESP32-C6",
  "features": "/802.11bgn/BLE/802.15.4/External-Flash:4MB",
  "rev": "0"
}
```

- [x] Configure shade resource: "type": "somfy_poe"

Set the shade type to "somfy_poe", hostname "sfy_poe_000355", pin_code "2664"

```
curl -k -X POST \
 -H "Content-Type: application/json" \
```

```
 -d '{"type": "somfy_poe", "somfy_hostname": "sfy_poe_000355", "somfy_pi
 https://inx-a0395b.local/inx/shades/0
```

- [x] Verify shade configuration and connection: "type": "somfy_poe" and "somfy_found": "true"

The somfy_cookie also indicates that the node is connected to the shade after a successful login with the pin code. However, this cookie will change after each request for position status or when moving position.

```
curl -k -X GET \
 https://inx-a0395b.local/inx/shades/0


{
  "name": "shade0",
  "channel": 1,
  "type": "somfy_poe",
  "cluster": "group1",
  "position": 0,
  "position_duration_minutes": -1,
  "position_duration_seconds": 0,
  "position_final": 0,
  "somfy_hostname": "sfy_poe_000355",
  "somfy_pin_code": "2664",
  "somfy_cookie": "sessionId=3046158364",
  "somfy_id": 1,
  "somfy_position": 0,
  "somfy_found": "true",
  "mecho_coaphost": "",
  "mecho_uid": 0,
  "mecho_position": 0,
  "mecho_found": "false",
  "somfy_rs485_id": 0,
  "somfy_rs485_position": 0,
  "somfy_rs485_found": "false"
}
```

- [x] Move shade position: "position": 50

The set point shade position is a value between 0-100%. For demonstration set it at half travel at 50%.

```
curl -k -X POST \
 -H "Content-Type: application/json" \
 -d '{"position": 50}' \
 https://inx-a0395b.local/inx/shades/0
```

- [x] Verify shade position: "somfy_position": 50

```
curl -k -X GET \
 https://inx-a0395b.local/inx/shades/0
```


```
{
  "name": "shade0",
  "channel": 1,
  "type": "somfy_poe",
  "cluster": "group1",
  "position": 50,
  "position_duration_minutes": -1,
  "position_duration_seconds": 0,
  "position_final": 0,
  "somfy_hostname": "sfy_poe_000355",
  "somfy_pin_code": "2664",
  "somfy_cookie": "sessionId=2679643757",
  "somfy_id": 1,
  "somfy_position": 50,
  "somfy_found": "true",
  "mecho_coaphost": "",
  "mecho_uid": 0,
  "mecho_position": 0,
  "mecho_found": "false",
  "somfy_rs485_id": 0,
  "somfy_rs485_position": 0,
  "somfy_rs485_found": "false"
}
```

Conclusion

The compatibility test between the Cisco Catalyst 9300 24H PoE switch, MHT Inspextor Core Node, and Somfy Sonesse 30 PoE shade motor (18W PoE, hostname `sfy_poe_000355`) was **successful**. All test objectives were completed and verified:

Configuration Verification: - Core Node firmware version 2.29.2 (gateway) and 2.18.0 (driver) were confirmed - The shade resource was successfully configured as `somfy_poe` with hostname `sfy_poe_000355` and pin code `2664`

Communication & Connection: - Node-to-shade login and session establishment were verified (`somfy_found: true`) - A valid `somfy_cookie` was observed and updated between requests, confirming active communication with the PoE motor

Motor Control: - Position control was confirmed by commanding `position: 50` and verifying readback at `somfy_position: 50`

Result: The system demonstrates full compatibility and is ready for deployment. The MHT Inspextor Core Node successfully integrates with the Somfy Sonesse 30 PoE motor over the Cisco 9300 PoE infrastructure, providing reliable authenticated connectivity and shade position control.