SWOpti User Manual

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SWOpti uses your renewable generation to supply your appliances at favorable times. This manual explains how to read measurements, control an appliance, schedule its operating periods, adjust heating and choose notifications.

It is intended for users of an installed and configured system. Electrical installation, module pairing and initial configuration are carried out separately with the installer. The options shown depend on the equipment installed and the controls it supports.

Appliance names are the names you have chosen: “Water heater”, “Pool pump” and “Living room radiator” are examples only. The position of controls may vary with screen size without changing their function. Examples use degrees Celsius and a 24-hour clock; follow the units shown by your installation.

Getting started

1. Open the SWOpti link provided by your installer.
2. On the main screen, check that the time and measurements are updating.
3. Select an appliance to open **Appliance Control**, and check its name before issuing a command.
4. Leave the appliance in **Normal** for automatic control. Use an override when you have a specific need.
5. For heating, open **Temperature Settings**. For alerts and reports, open **Notifications**.

Looking for a particular task? The contents and PDF bookmarks link directly to the relevant chapter.

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1 · Understanding how SWOpti works

Generation and consumption

SWOpti uses measurements from your installation's modules. It compares renewable generation, household consumption, exchanges with the grid and, where these measurements are available, exchanges with storage batteries.

When power is available, SWOpti looks for appliances that it can run, taking account of their priority and power requirements. It may supply a lower-priority appliance if the available power is insufficient to start an appliance higher in the list.

When the home draws electricity from the grid, SWOpti may reduce the power of compatible appliances or stop appliances under its control. It takes account of active commands, operating settings and applicable protections. A comfort program or an override may allow electricity to be drawn from the grid.

Example. The home has 2,800 W of surplus power. A charger needs 3,000 W and a water heater needs 2,500 W. The charger cannot start on that surplus alone, but the water heater may be selected. Priority therefore does not reserve energy exclusively for a particular appliance.

Useful units

Unit	Meaning	Example
W or kW	Power at a given moment. 1 kW = 1,000 W.	An appliance may consume 2,500 W while heating.
Wh or kWh	Energy consumed or generated over time. 1 kWh = 1,000 Wh.	Consuming 2,500 W for 2 hours uses 5 kWh.
%	A proportion, such as the state of charge of a storage or device battery.	A battery reading of 40% is not a power measurement.
°C or °F	The temperature unit configured for the system.	A setpoint of 19 °C (66.2 °F) specifies a desired temperature. A temperature difference of 2 °C equals 3.6 °F.

Savings depend on generation, usage, electricity rates and the energy you would otherwise have bought or exported. To estimate the cost of electricity drawn from the grid, multiply the relevant kWh by your price per kWh.

Appliance categories

Heating and cooling appliances are controlled according to temperature setpoints and comfort settings. Other controllable appliances, such as certain water heaters and pumps, can be controlled according to available power. An appliance in **monitoring-only** operation displays its consumption without receiving SWOpti's usual on and off commands.

An appliance is suitable for control by interrupting its power supply only if it can resume operation under those conditions. The installer must check this compatibility. A washing machine that waits for another press of its Start button does not behave like a water heater with a thermostat.

Some appliances support several power levels. Others may be connected to a **Mini Night Reserve**. Their particular features are described later.

A command and a measurement are different

A switch showing On means that the supply or operation is enabled. This does not guarantee immediate consumption. A water heater can have power available without heating because its thermostat considers the water hot enough.

Status and power readings may also arrive at different times. After a command, wait for measurements to update before concluding that there is a fault. An unchanged value is not necessarily a recent measurement: if an inconsistency persists, follow the troubleshooting chapter.

2 · Finding your way around the screens

Main navigation

The navigation bar provides access to the available functions. Use the following icons as reference points; you do not need to memorize their positions in the bar.

Icon	Screen	Function
	**Main screen**	Energy flows, measurements, appliance list and mini-log.
	**Appliance Control**	Immediate and deferred commands, Guarantee and appliance settings.
	**Configuration**	System controls, appearance, access and battery settings.
	**Temperature Settings**	Weekly programs, radiators and Delta On settings.
	**Metering**	Generation and consumption histories, data by period.
	**Notifications**	Messages, delivery methods, thresholds and scheduled reports.

On a computer, hold the pointer over a control to read its tooltip. On a tablet or phone, tap the relevant control and read its section labels. The small arrows beside headings expand or collapse settings.

Understanding the controls

A toggle switch enables or disables an option. A checked checkbox selects a setting; a radio button selects one option from a group. Input fields and drop-down lists specify values. Where a **Save** button is present, use it and wait for confirmation that the settings have been saved.

A grayed-out control may be loading, saving or unavailable for the selected appliance. Wait for confirmation before using another control. Avoid repeated clicks when an operation takes a few seconds to appear.

 The main screen

The main screen brings together energy flows, information about the sun and the appliance list. You can read total generation and generation by source, total household consumption, grid import and export and, depending on the installation, exchanges with storage batteries.

For a time-of-use electricity contract, the icon beneath the grid pylon shows the current rate period: for a **low-rate period**, or for a **high-rate period**. These indicate the rate currently in effect, not a price increase or decrease.

The **Sunrise**, **Solar noon** and **Sunset** times relate to the configured location. Solar noon is not necessarily 12:00 on the clock. The generation and consumption maxima show the peaks observed during the day.

For each appliance, distinguish between its commanded state, measured instantaneous power, operating mode and, where applicable, remaining duration. The phase or line indication depends on the installation and the **Phase display** setting. If the list spans several pages, use the page controls to reach the other appliances. The appliance name bar has a turquoise blue background for appliances outside the priority ranking, yellow while a minimum operating period is in progress, and red when overload protection intervenes. Red takes precedence over the other colours.

The mini-log

The mini-log keeps several recent actions. Open its drop-down list to read an earlier entry. Appliance names, icons and arrows keep messages compact.

It may display a command, a setpoint change, a maintenance operation or a warning. The icon identifies a configuration operation; the icon relates to logging. A check mark indicates success, and an alarm draws attention to a problem. This log summarizes actions; the HomeSeer log provides the details needed for troubleshooting.

Updates and confirmation

The screens and physical modules do not all update at the same speed. Wait for the controls to become available again and check the value read back. If a message says that a selection was not confirmed, refresh the page and try again once.

A page left open for a long time may ask you to confirm your presence or sign in again. Check the displayed time before relying on measurements that may be old.

3 · Controlling an appliance

Selecting the correct appliance

From the main screen, select the appliance name. **Appliance Control** shows its name and status. You can also change appliances using the selection list on that screen. Always check the displayed name before requesting an on or off override.

The controls are grouped under **Control now**, **Deferred Control** and **Appliance Settings**. Functions that do not apply to that appliance type may be hidden or disabled.

Control modes

A **timed** command applies for a chosen duration. A **deferred** command starts at a scheduled time.

Command	Intended effect	When the command ends
Normal	Returns the appliance to SWOpti's automatic control.	Remains automatic until another applicable instruction takes effect.
Override On	Requests immediate operation without a selected duration.	Remains active until another instruction takes effect.

Command	Intended effect	When the command ends
Override Off	Requests an immediate stop without a selected duration.	Remains active until another instruction takes effect.
Timed Override On	Requests operation for the specified duration.	Returns control to automatic operation or a Guarantee that is still eligible to resume.
Timed Override Off	Keeps the appliance off for the specified duration.	Returns control to automatic operation or a Guarantee that is still eligible to resume.
Deferred Timed Override	Schedules operation or a stop at the selected time and on the selected days.	Ends the period and returns control according to the instructions that still apply.
Monitoring Only	Keeps measurements updating while SWOpti relinquishes appliance control.	Remains active until you restore optimization.

Returning to **Normal** does not promise to preserve the appliance's On or Off state. SWOpti reassesses the situation. After a timed on command, an appliance may therefore stop or continue running, depending on conditions and other instructions.

An on or off command without a duration

1. Under **Control now**, choose **Override On** or **Override Off**.
2. Wait for confirmation and check the displayed mode.
3. To resume automatic control, choose **Normal**.

An on override might require electricity to be drawn from the grid. Applicable control constraints and protections still apply. If the equipment has its own thermostat or program, that continues to determine its internal operation.

A command for a chosen duration

1. In the timed override section, enter the **Hours** and **Minutes**. The duration must be greater than zero.
2. Select the corresponding on or off command.
3. After confirmation, check the mode and remaining duration.
4. To cancel, return to **Normal**.

An override duration is not a measure of energy consumed. Ten minutes with operation enabled does not mean ten minutes of heating if the appliance thermostat does not call for heat.

Scheduling deferred operation

1. Under **Deferred Control**, expand the deferred timed override section.
2. Use **Add Override On** or **Add Override Off**.
3. Enter the start time, duration and days. Enable the required entry.
4. Use **Save schedules**, then check the displayed entries.

You can have several entries for one appliance, such as an on command at 10:00 and an off command at 14:00. A disabled entry no longer starts its future scheduled periods. Disabling it does not stop a command already in progress: use the appropriate immediate command and check the result.

Overlaps are flagged but are not always prohibited. For two identical periods requesting opposite actions, Off takes precedence. Avoid unintended overlaps: a command that interrupts another does not necessarily allow the interrupted command to resume afterward. A timed off command interrupting a timed on command does not automatically restart the unused part of that on period.

Appliances with several power levels

For an MPL appliance, the available settings let you choose the power level or current for an on override, depending on the equipment. A cumulative system adds elements, such as several heating elements; a non-cumulative system uses distinct levels or a current setpoint.

Change only the values offered for the installed appliance. A level change may need several steps and a confirmation delay. Missing confirmation calls for a communication or equipment check, rather than repeated rapid commands.

4 · Adjusting appliance operation

Changing the displayed name

In **Appliance Control**, expand **Appliance Settings**, then **Appliance name**. Enter the new name and use **Save**. Check the confirmation and the name in the list.

The name identifies the appliance within SWOpti. Changing its displayed name must not be used to reassign a physical module. Reassignment is an installation task.

Radiators can also be renamed from **Temperature Settings**. Chapter 6 explains the procedure.

Optimization or Monitoring Only

Monitoring Only keeps the appliance's measurements, particularly watts, updating while SWOpti stops controlling it. The magnifying-glass icon identifies this state. The appliance's own controls determine its operation.

1. Select the appliance in **Appliance Control**, expand **Appliance Settings**, then expand the section containing **Monitoring Only**.

2. Before confirming, check that the appliance can operate using its own controls. For a radiator whose thermostat was set very high for SWOpti control, adjust that thermostat to a suitable temperature: SWOpti will no longer stop heating at its setpoint.

3. Move the toggle towards the magnifying glass, read the explanation and confirm. SWOpti ends the active override or Guarantee and disables saved schedules, Grid Assist and Tempo preparation/prohibition. Their settings are retained.

4. Wait for confirmation. Controls that no longer apply disappear; **Appliance name**, **Configured consumption** and measurements remain available. If the On state is not confirmed, check the appliance's supply and controls.

For relay-controlled equipment, SWOpti enables the supply once, then leaves it alone. It does not keep turning the appliance back on if somebody switches it off outside SWOpti. For a cumulative MPL appliance, it enables the main contact and all configured elements; use the appliance's thermostat and element switches afterward.

For API-controlled equipment, SWOpti stops sending control commands but continues measurement queries. Existing equipment settings remain until you change them through the appliance or its application. Switching to Monitoring Only does not itself release an earlier API setting.

To restore automatic control, return the toggle to optimization and confirm. SWOpti restores the previous control type and returns to **Normal**. Saved schedules, Guarantees, Grid Assist and Tempo options remain disabled: enable those you want to resume. **Mini Night Reserve** appliances cannot be switched using this control; other unsupported configurations may also make it unavailable.

Configured consumption

Configured consumption is the power figure SWOpti uses when deciding whether an appliance can start. It is distinct from the instantaneous measured power in watts. In the relevant section, change **Power required to start**, then save.

A value that is too low may lead to grid import after starting. A value that is too high may prevent the appliance from using a sufficient surplus. Ask the installer for advice if the appliance varies its power substantially or operates at several levels.

Minimum operating time

Minimum operating time helps limit stops too soon after starting. This can be useful for a pump that needs to prime. Enter the duration in minutes in its field, then save. While a minimum operating period is in progress, the appliance name bar turns yellow on both the main screen and the Appliance Control screen. The elapsed time and total minimum duration appear immediately after the name: '— 8/15 min' means that 8 of the required 15 minutes have elapsed. At the end of this period, the yellow background and this indication disappear. A new On command does not restart this period if the appliance was already on.

This setting does not replace the appliance's safety features.

Priority

The **Priority** list gives the order of preference when solar power is available. Select an appliance and use **Increase priority** to move it above the eligible appliance immediately ahead of it.

To move an appliance down, move up the appliance that should precede it. Check the order after each change. Some appliances do not participate in this ranking; the control may then be unavailable.

Special Priority

Special Priority offers **Privileged**, **Normal** and **Sacrificable**. The traffic light identifies this designation; it does not show the appliance's electrical state.

A sacrificable appliance may release power for a privileged appliance when conditions allow. For example, a pump uses 800 W and 2,700 W remains available. A privileged 3,000 W water heater cannot start on that remaining power alone; stopping the pump may make its start possible. This designation does not guarantee that an exchange will occur: active modes, electrical constraints and protections still apply.

Grid Assist

Grid Assist allows part of the appliance's supply to come from the grid when the renewable surplus is insufficient. The percentage is the maximum share of the appliance's power that the grid may provide. It is not the minimum percentage of solar power required.

For example, for a 2,000 W appliance with a maximum grid contribution of 25%, the permitted grid share is at most 500 W. At least 1,500 W of renewable power is therefore needed in this simplified example.

Where available, enable the option, enter the summer and winter percentages, select the required seasonal setting and use **Save**. Grid Assist can increase purchased energy. It is not offered for every appliance type, including MPL appliances and heating or cooling appliances.

5 · Using the daily operating Guarantee

What the Guarantee does

Guarantee sets an operating-time target for the selected days. For example, a filtration pump may need to run for five hours during the day, without needing to run for five consecutive hours.

During the day, SWOpti uses operating opportunities allowed by generation and configuration. Progress distinguishes **done**, **left** and **target**. Time is counted from recognized operation, not simply from the supply being enabled.

Setting up and enabling the Guarantee

1. Select the appliance and expand its Guarantee section.
2. Set the durations and days of the week. Several entries may be available for different requirements on different days.
3. Choose the off-peak operating options and the **On completion** behavior.
4. Use **Save Guarantee** and check that it is enabled.

Newly enabled programs start at the next sunrise. If you want the Guarantee to apply today, use **Guarantee Now** where that command is offered.

At sunrise, the day's target is reset according to the schedule. Uncompleted minutes are not automatically added to the next day's target.

When sunshine is insufficient

At sunset, SWOpti handles the remaining time according to the catch-up configuration and the off-peak periods available and authorized. This phase may draw electricity from the grid.

If two hours remain, two hours of recognized operation are needed. Two elapsed hours with an appliance that is not consuming power may not be sufficient. An unavailable appliance, a prohibition or a lack of consumption may prevent the target from being reached at the expected time.

Run during daytime low-rate periods allows available low-rate daytime periods to be used for this Guarantee. Enable the option with regard to your electricity contract and the grid import it may cause.

Choosing what happens on completion

Option	behavior after the target is reached
Return to Normal	The appliance becomes available for automatic optimization again.
Off until sunrise	The appliance remains off until its scheduled resumption the next day.
Timed Off	The appliance is stopped for the chosen duration, after which automatic control may resume. This can release power and allow other appliances to start if conditions permit.

The Guarantee and other commands

The Guarantee and deferred schedules can coexist in version 2.93. Their interaction depends on the command:

Intervention during a Guarantee	Result
Timed Override On or a deferred on command	recognized operation may count towards the Guarantee.
Timed Override Off or a deferred off command	The Guarantee pauses during the stop and may then resume if still eligible.
Override On without a duration	Cancels the active Guarantee; the appliance follows the new on override.
Override Off without a duration	Stops the Guarantee for the day. Manually reactivating it that day may resume the stored remaining minutes.

After an intervention, check progress and mode. Returning to **Normal** hands control back to the system; it does not always mean that the Guarantee has been removed. Use the displayed status to check whether it is active, paused, complete or inactive.

6 · Adjusting temperature setpoints

Selecting a radiator

Open **Temperature Settings**, then select the radiator or cooling appliance in the list. Its name appears in large text above the table. Check that name before changing a setpoint.

The list distinguishes electric heating or cooling appliances from thermostatic radiators. SWOpti can transmit a setpoint to a thermostatic valve without electrically controlling the corresponding heat source.

Measured temperature appears to the left of the selection button. Humidity and device-battery charge appear to the right when their measurements are configured, for both radiator categories. A shared sensor may supply measurements for several radiators. A radiator's temperature and humidity may also come from different modules.

Inside each selection button, the icon on the left shows the appliance's current commanded state (**Cont**) and the icon on the right shows its **Mode**, when those statuses exist. They are read-only indicators; clicking the button still selects the radiator. A magnifying glass indicates **Monitoring Only** and also appears before the selected radiator's large name.

In **Monitoring Only**, you can still edit the weekly setpoint program, temperature offset and Delta On settings where applicable. Scheduled setpoint values continue to update, ready for a return to automatic control. Editing them does not reactivate SWOpti's physical temperature control while Monitoring Only remains active.

Understanding the displayed measurements

Where no humidity or device-battery measurement is associated, that space remains empty. When a configured measurement is temporarily unusable, the display may show **0%**. Check the sensor: zero alone does not prove that the battery is physically empty or that the air humidity is actually 0%.

Device-battery charge appears in red when it is at or below the threshold configured for the battery report. If no threshold is configured, the default visual reference is a charge below 20%. The color is a visual indication; configure the daily report and its delivery methods separately in **Notifications**.

Changing a setpoint period

The table represents the week in half-hour slots. The four selections are directly above it: **Setpoint temperature**, **Day or day range**, **Start time** and **End time**.

1. Select the radiator.
2. Choose the desired temperature, then the day or range of days.
3. Set the start and end times. The period ends at the selected end time.
4. Wait for the selections to be confirmed and the controls to become available again.
5. Press the green check mark to apply the setpoint.
6. Check the changed cells in the table and the action message.

For example, to heat the living room to 20 °C on Monday from 19:00 to 20:00, select the living room, 20 °C, Monday, 19:00 and 20:00, then confirm. Selecting 19:00 to 19:30 changes only one half-hour slot.

Choosing a value in a list prepares the change; the check mark applies it to the program. If the fields are grayed out, wait for the exchange to finish. If confirmation fails or does not arrive, refresh the radiator program and check the values read back before confirming.

Programs repeat weekly: a changed period remains in the table for subsequent weeks until changed again. For a one-off exception, remember to restore the usual program afterward. A temperature-program change is different from a timed on override.

The active setpoint is maintained according to the system's time slots. After changing a period that has already begun, check the setpoint actually in effect. A selection's color or text alone does not prove that a new time slot has already been applied to the equipment.

Changing language or renaming a radiator

The selected day or range of days retains its identity when the language changes; only its label is translated. Personal radiator names remain as you entered them.

To rename a radiator, select its name or the small pencil beside it. In **Rename this radiator**, enter the name, then choose **Save** or **Cancel**. The name must not be empty or already used by another appliance. The vertical bar character is not accepted.

This command is also available for thermostatic radiators. Renaming preserves the association with the radiator and its program; it does not create a new appliance. If a message says that the name changed in another window, close and reopen the rename control before trying again.

Temperature offset and Delta On

The **Δ** symbol represents a temperature difference. Settings are shown only when they apply to the selected appliance.

Temperature offset is the positive comfort delta. For heating set to 19 °C with an offset of 2 °C, SWOpti may use surplus solar power to heat up to 21 °C. An offset of 0 °C does not request this additional comfort. This setting is not a thermometer calibration.

Temperature difference triggering Delta On is the permitted temperature drop before requesting catch-up heating. With a setpoint of 19 °C and a difference of 2 °C, the catch-up threshold is 17 °C. **Delta On duration (minutes)** sets the maximum duration of that request, for example 45 minutes.

Once Delta On has started, merely returning within 2 °C of the setpoint does not cancel it. In this example, the request may end before 45 minutes when the 19 °C setpoint is reached. Otherwise, it ends when its duration expires and operation is reassessed. Catch-up heating may use grid electricity, subject to applicable conditions and restrictions.

For a cooling appliance, the setpoint represents a temperature to limit, and the demand logic is adapted to that purpose. Do not use a heating example to infer another appliance's exact threshold; check its settings with the installer.

Enabling or disabling heating management

The **Heating** control is available on the relevant screens and in **Configuration**, under **System controls**. It changes the overall heating-management state. Check appliance states after changing it.

Before a long absence, consider comfort and frost-protection needs. Turning heating off globally does not replace a program suited to your home.

7 · Storage batteries and Mini Night Reserve

Reading storage information

SWOpti may display state of charge, available energy, charging or discharging power and the latest measurement time, depending on the equipment's capabilities. A home storage battery is different from a small temperature-sensor battery.

Capacity is measured in Wh or kWh; charging or discharging power is measured in W. For example, supplying 80 W for 12 hours represents 960 Wh before losses and battery limits are taken into account. Actual operating time depends on those losses, available charge and the connected appliances.

The installer establishes the battery configuration and its role in the installation. SWOpti cannot infer a missing or outdated measurement from the battery's indicator light alone. If information becomes unavailable, have communication checked before changing settings.

Communication settings

In **Configuration**, **Battery Settings** shows configured batteries and available settings. For a model using a local connection, the battery address and TCP port must match its actual network configuration.

Change these settings only if the equipment address has actually changed or the installer asks you to. After **Save**, the new address will be used for a subsequent reading. Then check that the measurements are recent and consistent.

Mini Night Reserve

A **Mini Night Reserve**, or **MNR**, uses a battery and a compatible arrangement to supply certain loads during the night. In the intended arrangement, the daytime command enables supply and charging; the evening command allows the battery to take over the appliances connected to it.

The principle is to move available energy to a time when generation is insufficient. Turning off the battery's mains input is not the same as turning off its output: the arrangement must maintain the intended supply to the load.

An on override may maintain the mains supply, depending on the MNR configuration. Check the consequences with the installer before changing this mode. The permitted power, capacity and suitability for daily operation must match the connected appliances. An MNR does not guarantee whole-home supply or unlimited operation during a power cut.

8 · System configuration and Tempo management

Appearance and access

In **Appearance**, use **Choose language** to change the interface language. Your personal appliance names are preserved. You can also select the available screen color scheme.

Help & account contains two framed areas. The assistance area groups the help icon with contact and account information.

In the **User Manual** area, click the book icon to open the manual for your installed SWOpti version in a new browser tab. Internet access is required. The language selected in SWOpti determines the manual language; if that translation is unavailable for your version, the English

manual is offered. Read the PDF online or download it through your browser. To obtain another language, select it in SWOpti before clicking the icon.

Communications & access groups the internal and external links available for SWOpti and HomeSeer. Use links provided or validated by your installer. Remote access depends on the connection and network configuration; HomeSeer credentials are still required where access requests them.

Enabling external access or changing the router is an installation task. Everyday use of this manual does not require changes to ports, passwords or network protection.

Total contract power

In **Configuration**, the **Electricity contract** area contains two collapsible sections. Open **Total contract power** and enter the **total** power allowed by your contract, in watts, even if your supply has more than one phase.

SWOpti calculates the **L1**, **L2** and, where applicable, **L3** indications from this value. For a total of 12,000 W, the displayed maximum is 12,000 W for single-phase supply, 6,000 W per leg for split-phase supply and 4,000 W per phase for three-phase supply. Do not divide the value before entering it.

The **Save** button in this section becomes active and pulses green when you change the value. Click it, then wait for **Saved.** This button saves only the contract power; any pending changes to the tariff schedule must be saved separately.

Low-rate periods

The **Low-rate periods** section appears only when your installation is configured for a contract with high-rate and low-rate periods, including Tempo. Expand it to edit the times. The table provides up to three low-rate periods per day, Monday through Sunday, whether you use one schedule throughout the year or separate summer and winter schedules. Enter the **Start** and **End** times for each period used. Leave unused periods blank. Faint vertical lines separate the three periods.

Enter each time on the weekday when it actually occurs. For a period from Monday at 22:00 to Tuesday at 06:00, enter the start in Monday’s row and the end in Tuesday’s row. Times outside the defined periods are high-rate periods.

Same hours every day copies Monday’s six time fields to the remaining days in that table. Use it when the times are the same throughout the week; you can then edit any exceptions.

If your contract has two seasons, select **Two seasonal schedules**. Set **Season starts** for **Summer** and **Winter** by choosing the month and day, then complete both tables. The dates repeat every year; the start of one season ends the other. The dates must differ. Switching modes preserves the previously saved schedule in the inactive mode.

Use the **Save** button inside **Low-rate periods**, which pulses while changes are pending, then wait for **Saved.** It saves the times and seasonal dates without saving a pending change to contract power. If saving is rejected, check the start/end times, overlaps and dates. If settings changed in another window, reload the page before trying again.

Consumption tolerance

Consumption tolerance prevents SWOpti from reacting to every small draw from the grid. With a tolerance of 100 W, a draw of 75 W does not prompt the same reduction request as a larger excess.

Change the value under **System controls** and check that it is saved. Tolerance is neither a permanent consumption target nor a guarantee of never importing electricity. Measurements and commands take time, and other household loads can start at any moment.

Injection MAX

Injection MAX defines the exported-power limit used by the configured export-limiting function. Where compatible panel groups can be controlled, SWOpti may stop some of them to reduce export. Their generation indication may then show that they are switched off.

This value must correspond to the arrangements agreed for your installation. It does not replace electrical protection or the requirements applicable to your grid connection. Ask the installer to confirm it before changing it.

Witness devices and communication

Witness devices monitors the freshness of Zigbee and Z-Wave communication. A witness is a physical measurement that updates regularly, preferably from a continuously powered module.

A Zigbee or Z-Wave warning indicates a possible freshness or communication problem. It does not prove that every module has failed. A battery-operated sensor may transmit infrequently and is not necessarily a suitable witness. Have the witness choice confirmed before replacing it.

Select or change each witness in **Configuration**, under **Witness devices**. Choose a mains-powered measurement that normally updates more often than every 45 seconds. The Notifications page displays the current choice without allowing it to be changed there.

Tempo management

Tempo is a French electricity tariff; this section applies only where your system uses it. SWOpti displays the available information about today's and tomorrow's tariff colors. **Tempo management** can adapt configured appliances to avoid certain consumption during the relevant periods.

The overall enable control is under **System controls**. Per-appliance choices are in **Appliance Control**, under **Tempo Preparation and Prohibition**:

Setting	Effect
No preparation	Does not impose preparatory operation for this appliance.
Allow preparation	Allows the planned preparatory operation before a red day.
No prohibition	Does not apply the Tempo prohibition to this appliance.
Keep off on red days	Applies the planned prohibition during the relevant red period.

In the time framework displayed by SWOpti, preparation runs from 22:00 to 06:00 and prohibition from 06:00 to 22:00. Check your contract information and system configuration. After changing settings, use **Save Tempo settings**.

Preparation may increase overnight consumption in anticipation of demand. A prohibition can reduce comfort or prevent an appliance from completing its Guarantee. A manual command can alter the current situation: check the actual mode and remaining schedules afterward. Tomorrow's indication depends on information being available; do not interpret an unknown value as a day without restrictions.

9 · Choosing notifications

Page organization

Open **Notifications**. The banners distinguish critical messages, warnings and information. An active notification may remain visible after its original event has ended; the history provides its context and date.

Sections are grouped by category: generation, grid, sun, storage batteries, device batteries, appliance operation and SWOpti updates. Each notification retains its own section. Expand its title to access its settings; use its toggle to enable or disable it where this is permitted.

Disabling a notification changes its monitoring or delivery, not the corresponding electrical control. For example, disabling the export-limit warning does not disable export limiting itself.

Global preferences and delivery

Under **Global preferences**, enable **Notification delivery**, then choose the available methods. Notifications have individual delivery settings as well as the global preferences.

Method	Where the message is received	What to check
SWOpti display	Interface banners and history.	The page must be up to date.
HomeSeer TTS	Speaker or voice client associated with the system.	The client and audio output must work.
Browser TTS	The device whose browser displays SWOpti.	The page must remain open and the browser must allow sound and speech.
Email	Addresses entered in the preferences.	HomeSeer sending settings and recipients must be correct.

The delivery checkboxes beside the icons select a notification's announcement methods. The toggle before its title enables the notification itself. The screen is the basic way to view messages; speech and email are additional methods.

For email, enter recipients separated by commas, then use **Test email** to check sending. Check actual receipt, including the junk folder. HomeSeer accepting a send request does not confirm delivery. If the email account password changes, update the sending settings in HomeSeer.

Speech silence and history

Silence TTS suppresses HomeSeer and browser speech during the selected hours. The period can cross midnight. Email and visual messages are separate from speech silence. A chime can be selected before spoken announcements where that option is available.

Choose **History retention** to suit your needs. Historical messages record when events occurred and what they were; they do not all represent a fault that is still present.

Several notifications avoid repeating while a condition persists. After enabling or restarting, some thresholds already exceeded do not trigger a retrospective announcement: another crossing may be needed. This rule is separate from the daily device-battery report.

Generation notifications

Notification	Purpose and main settings
Production Power High	Up to three independent power thresholds per source, in watts. A blank field disables that threshold. Generation must fall again before another upward crossing; the minimum repeat interval limits announcements for the same threshold.
Energy Status Report	summarizes generation, consumption, grid and batteries. Select the available times or reporting intervals. Hourly and two-hourly choices are mutually exclusive.
PP Production Loss	Reports a generation drop in a monitored PP panel group, according to the threshold and confirmation duration. Select only the groups to monitor.
Daily Production Target	Announces energy targets reached, in kWh. Leave unused targets blank; duplicates are rejected. Each target is announced at most once a day.
Daily Production Record	Announces a new record according to the tracking rules. The first complete day establishes a baseline without announcing a record.

A power threshold in W and a daily energy target in kWh describe different things. Passing clouds may cause repeated power-threshold crossings while the day's energy continues to accumulate.

Grid notifications

Notification	Purpose
Contract Power Approaching	Warns when grid import approaches the selected percentage of the contracted limit. The check takes account of configured phases or lines. It does not replace a circuit breaker.
Injection Limit Exceeded	Reports SWOpti intervention on PP panels to limit export.

Sun notifications

Notification	Purpose
Sunrise and Sunset	Lets you choose sunrise, sunset and an announcement a specified number of minutes before sunset.

Storage batteries

Notification	Purpose
Storage Battery Charge Low	Warns when charge falls below the chosen threshold. Recovery requires a rise of 5 percentage points above it. A threshold of 20% therefore rearms at 25%.
Battery Charge Milestone	Reports crossings of 10% charge milestones, while charging or discharging, subject to SWOpti's repetition rules.
Battery Fully Charged	Announces the full-charge level configured or recognized for the battery. This is not necessarily 100%.

These notifications concern energy storage. For batteries in sensors and thermostatic valves, use the following report.

Device Battery Report

This report is **daily and scheduled**. It does not trigger another announcement for each battery-level change during the day.

1. Enable **Device Battery Report** .
2. Choose the **Daily report time**.
3. Set **Low battery threshold (%)**. A battery is considered low when its percentage is at or below this threshold.
4. Select the batteries to monitor using the controls beside the names.
5. Choose the delivery methods. Enable **Include all batteries in the report** if you also want to see batteries above the threshold.
6. Wait for saving to complete and check the values read back.

The threshold and time apply to the whole report; batteries are selected individually. By default, only selected low batteries appear. If there are none, no report is sent. Including all batteries allows a daily status report even when all selected batteries are above the threshold.

Email lists names and percentages. Batteries are sorted by percentage from highest to lowest. The spoken summary stays short: it names only the appliances associated with low batteries, without reading every percentage. If all batteries are included and none is low, it says that no device batteries are low.

A single physical battery shared by several appliances appears once, with the associated names. For example, one sensor shared by two radiators does not create two batteries in the report. The names are those of the associated SWOpti appliances.

A negative, missing or unusable value for a configured battery is treated as 0%. A positive numerical value is used as supplied. If an unusual percentage appears, check the module and its configuration before treating it as a reliable charge reading.

The report runs only once per day. The system must be running at the scheduled time; the execution window is five minutes. After a long interruption, a missed report is not sent later. Speech silence may suppress its spoken part.

Test example. To test a report, temporarily choose a threshold above the charge of a selected battery and a time still to come. Check the message and delivery methods, then restore your usual threshold and time. A report already processed that day does not repeat simply because its time or threshold changes.

Appliance operation

Notification	Purpose
Device Cycle Completed	Detects an appliance’s cycle end from its consumption. Requires suitable appliance selection and parameters.
Guaranteed Time Reached	Reports when a selected appliance completes its daily Guarantee before sunset.
Scheduled Override Completed	Reports the normal completion of a selected deferred period. Cancellation is not normal completion.

For **Device Cycle Completed**, you can enter **Threshold (W)** and **Duration (seconds)** if suitable values are known, then use **Save manual values and activate**. Alternatively, use **Start learning** while the appliance is idle.

During learning, leave its supply On between uses and use its usual programs. Learning examines five uses, extending to ten if necessary, before enabling monitoring when suitable parameters are available. Check the displayed state and allow time for the cycle to finish. A stop requested by SWOpti must not be interpreted as a normal program completion.

Cycle-end announcements help you follow operation; they do not guarantee that dishes, laundry or another process are actually finished in every circumstance.

System notifications

Notification	Purpose
SWOpti Update Progress	Shows installation stages and any failures. This notification is always enabled.
Communication monitoring Zigbee	Witness freshness warning, configurable reminders and one automatic recovery message.
Communication monitoring Z-Wave	The same monitoring for the selected Z-Wave witness, with independent activation and delivery.

Communication monitoring

In the **Configuration** category at the bottom of **Notifications**, **Communication monitoring — Zigbee** and **Communication monitoring — Z-Wave** have separate activation toggles and delivery choices. A protocol is offered when its Plus plugin is detected. Monitoring remains available if that plugin stops.

1. Expand the required section. Choose the delivery methods at the top, then check the displayed **Witness device**. Use **Configure witness device** to change the selection on Configuration. Without a selected witness, no communication warning is sent.

2. Enable the protocol’s notification. Set **Repeat warning every (minutes)** to the desired reminder interval; the default is **20 minutes**. This is the reminder interval, not the time before the first warning.

SWOpti warns on its next check when the witness has not updated for more than **45 seconds**, using the same freshness criterion as the main screen. A configured witness that is missing or unavailable also generates a warning. Reminders continue while the problem persists, even if you acknowledge the current warning.

When the witness becomes fresh again, SWOpti clears its warning and sends **one recovery message** through the same selected channels. The screen information message lasts 60 seconds. No separate recovery checkbox is needed. Disabling the protocol or global notifications clears the episode and suppresses its later recovery message. Changing the witness also clears the old episode.

This monitors the selected witness, not every device individually, and does not prove that the whole radio network has failed. A plugin can refresh HomeSeer’s **LastChange** timestamp from cached data; such updates may conceal a real communication problem. This notification does not restart a plugin or change appliance states.

10 · Viewing histories

Open **Metering** from navigation. It shows recorded generation, consumption and appliance data, depending on your configuration.

Choose the data group, period and available detail: days in a month, months in a year or an annual summary. Use the arrows to move to the previous or next period. The download icon retrieves data where that function is offered.

Self-consumption is the share of generation used locally; **self-sufficiency** is the share of consumption covered by your generation, according to the installation's calculations and measurements. These percentages can differ. A home may use almost all of its small generation output while still buying a large share of its needs from the grid.

Histories are accumulated records. Data may be missing after an interruption or without a suitable meter. When investigating a difference, compare the same period and units. Do not compare instantaneous power in watts with daily energy in kWh.

11 · Maintaining the system and solving problems

Inconsistent or frozen measurements

Start by checking the page update time. Refresh once if necessary. Then compare the appliance name, commanded state, power and mini-log messages.

If a value remains inconsistent, check its latest update in HomeSeer. A timestamp update does not prove that the physical value is correct: a module or plugin may republish a stored value. Avoid artificially correcting the displayed power to hide the problem.

For a battery-operated sensor, check its battery, communication and usual transmission interval. Such sensors do not all respond to an immediate reading request and should not be queried like a mains-powered module. An old high temperature may distort an average used for heating; report sensors that stop transmitting.

A command seems to have no effect

First check that you selected the correct appliance and that the command was confirmed. Note the mode, remaining duration, any protections and the power measurement.

An appliance with power available may consume nothing because of its thermostat. A mode change may precede a new measurement or the end of a command sequence. If the discrepancy persists, note the time and messages before asking for help.

Zigbee or Z-Wave communication

A warning may originate from the module, controller, plugin, communication service or local network. A Z-Net Pro depends on its network connection; a USB controller also depends on its power and USB connection.

Do not delete and re-include a module as a first troubleshooting step: this can change its association. Restarting a plugin can temporarily interrupt several appliances. Follow the appropriate procedure with support rather than repeatedly restarting without a diagnosis.

If problems appear after a Windows update, have PC sleep settings checked and, for the relevant controllers, USB suspension. The SWOpti PC must remain available to provide control.

Missing email or speech

Check global delivery, the notification's enable setting and its delivery checkboxes. For speech, check the silence period, volume and the client or browser in use. For email, run a test and check HomeSeer's sending credentials and the recipients.

For a device-battery report, also check the time, selected batteries, threshold and option to include all batteries. With no low battery and without that option, no report is expected.

Shutting down the PC and making backups

Before a planned power interruption, close HomeSeer properly, wait for it to close completely and then shut down Windows. After power is restored, check that HomeSeer starts, SWOpti updates and appliance states are correct.

Have the presence, destination and success of backups checked. Do not assume that an old manual's backup time or number of retained copies still applies to your system. HomeSeer's **Tools > Backup/Restore** lets you view backup options; seek help before restoring.

Recovery backups must include SWOpti configuration and data, particularly **Config** and **Data\SWOpti**, as well as the required HomeSeer components. A copy kept off the PC provides better protection against disk failure. Having a backup is not a substitute for testing restoration.

Protected configuration and updates

In version 2.93, SWOpti configuration files use verification and recovery protection. Make changes through the SWOpti screens or a maintenance tool approved with support. A direct change in a text editor may be rejected or replaced by a recovery copy, even if HomeSeer was stopped when it was made.

Do not delete recovery files or maintenance markers to force a restart. If a protection error appears, preserve the files and message for support.

An update may pause optimization and restart the PC. Wait for its success message before resuming adjustments. A failure message requires attention; manually repeating installation is not a repair method.

Preparing a support request

Note the displayed version, date and time of the problem, appliance name, requested command, expected result and observed result. Include mini-log messages and HomeSeer log entries around the error, not just the isolated error line.

Use the contact information in **Help & account**. Do not include passwords in a public problem description. A focused screenshot of an issue can help support even though this manual does not use full-screen screenshots.

12 · Finding familiar functions after the update

Version 2.93 groups an appliance's controls on a dedicated screen and adds explicit settings. The table below helps you find the main functions described in the previous manual.

Previous method or habit	Method in this edition
Using the buttons below the selected appliance on the main screen	Open **Appliance Control**, then **Control now** or **Deferred Control**.

Previous method or habit	Method in this edition
Changing MINON or power through a command in the name field	Use **Minimum operating time** or **Configured consumption**.
Changing INJMAX through the name field	Use **Injection MAX** in **Configuration** .
Selecting temperature, day and times at the bottom left	Use the four selections above the setpoint table, then the green check mark.
Looking for the old option to reverse a command when its duration ends	Check the return to automatic control and the Guarantee's **On completion** settings. Do not assume that every override ends with the opposite action.
Using a single deferred schedule incompatible with the Guarantee	Use the available schedules and check their interaction with the Guarantee.
Confusing low storage-battery charge with sensor batteries	Use **Storage Battery Charge Low** or **Device Battery Report** , according to the equipment.

When moving from the old system to version 2.93, the old override and Guarantee instructions are reset during the installer's first conversion. Note any required schedules beforehand and check afterward which need to be recreated. Temperature programs are separate settings; check them after the update too.

Short glossary

Term	Meaning in this manual
Setpoint	Temperature requested for an appliance and a time period.
Override	An on or off instruction that replaces automatic control temporarily or indefinitely.
Guarantee	An operating-time target tracked for selected days.
Grid Assist	The share of power allowed from the grid when generation is insufficient.
Storage battery	Energy storage supplying some of the installation’s loads.
Device battery	A sensor or valve battery whose charge can be monitored.
PP	A “plug-and-play” photovoltaic panel group identified in the installation.
MPL	An appliance with several power levels. MPL means “Multi-Power Level”.
Witness device	A physical measurement used to monitor communication freshness.
Displayed name	A personal name that identifies an appliance in SWOpti.
Monitoring Only	Measurements remain available; SWOpti no longer controls the appliance.