

B/S/H/

Padua-OT Raw Concept

Status: 1. Mrz 2018

User Interface Raw Concept

UI Team:

REU/OP-LCDESU;RGC/OP-LCDDEU

in cooperation with:

BO brand design UI: BBO-DSID

SE brand design UI: BSI-DSI



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Introduction

Purpose of the document

This raw concept contains the user interface functionality, structure, navigation concept, interaction elements and information content.

Structural graphics are being used, this is not a visual design specification.

This documents is the requirement input for the visual user interface design.

Involved in conception

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BSI-DSI: Timo Stuehler

BBO-DSID: Karina Fischer

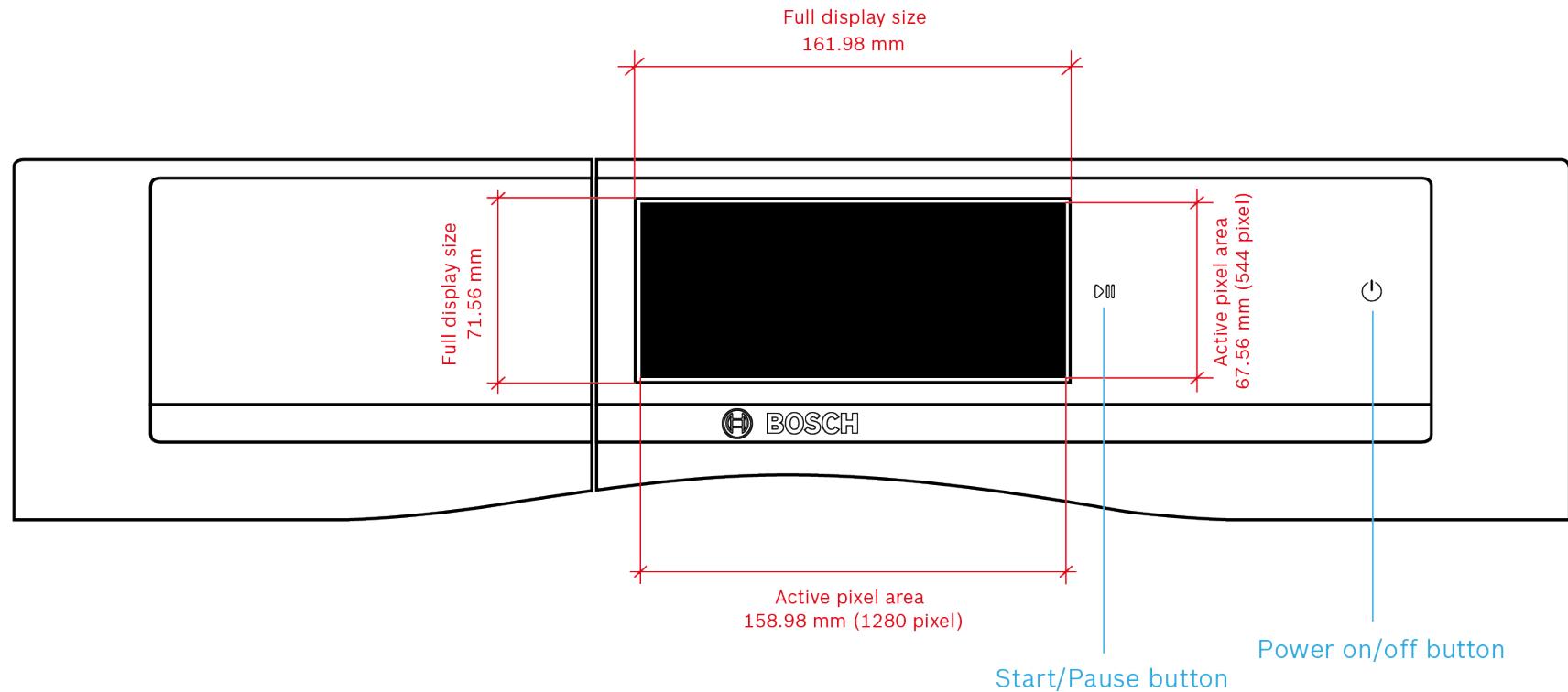
MPT Lead RGC, Washer RGC: Leng, Shuai (RGC/OP-LCTW); Washer-Dryer RGC: Xu, Yu (RGC/OP-LCTW); Gao, Yihong(RGC/OP-LCTD)

MPT Lead REU, Washer REU: Blasaditsch, Gregor (REU/MA-LCWB), Washer-Dryer REU: Dennig, Sarah (REU/MA-LCWB), Dryer REU: Lehner, Thomas (REU/MA-LCD)

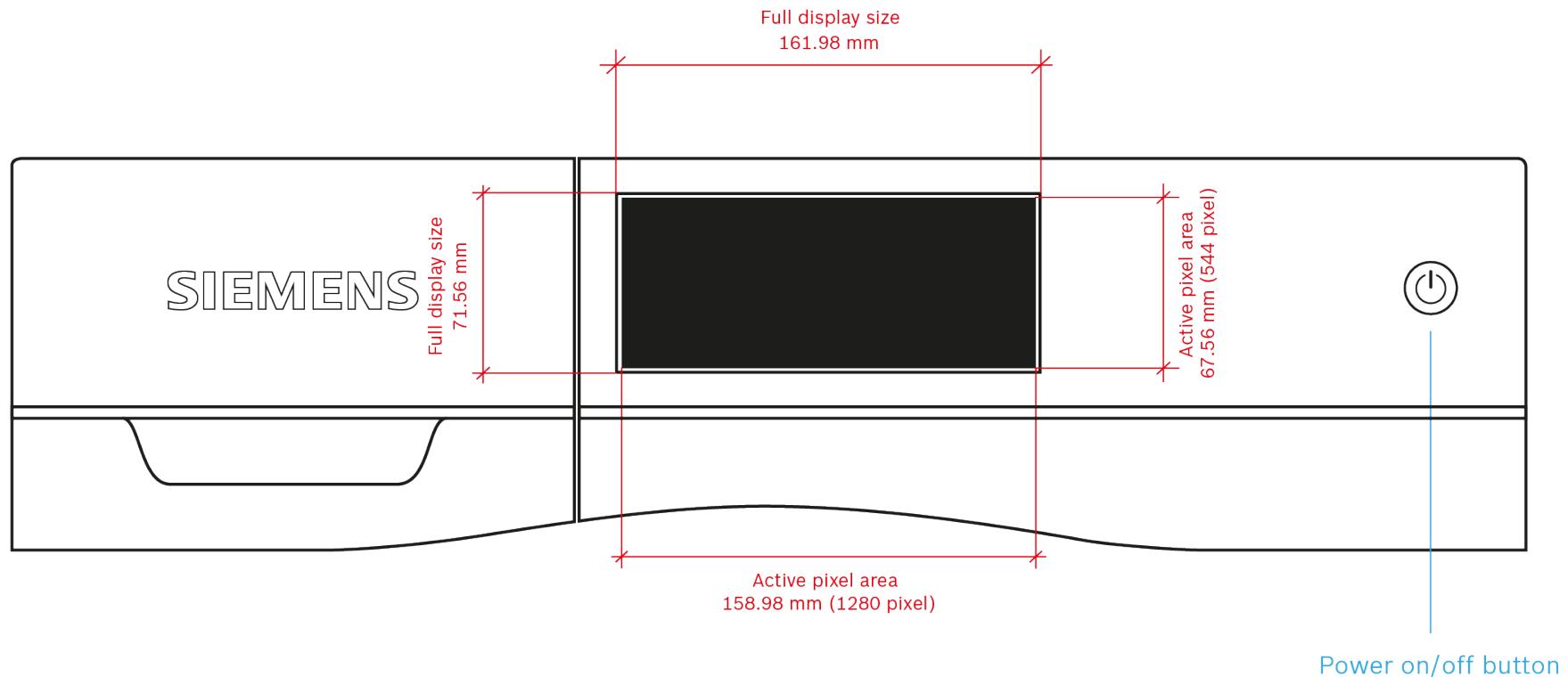
Overview

2.1 User Interface Variants

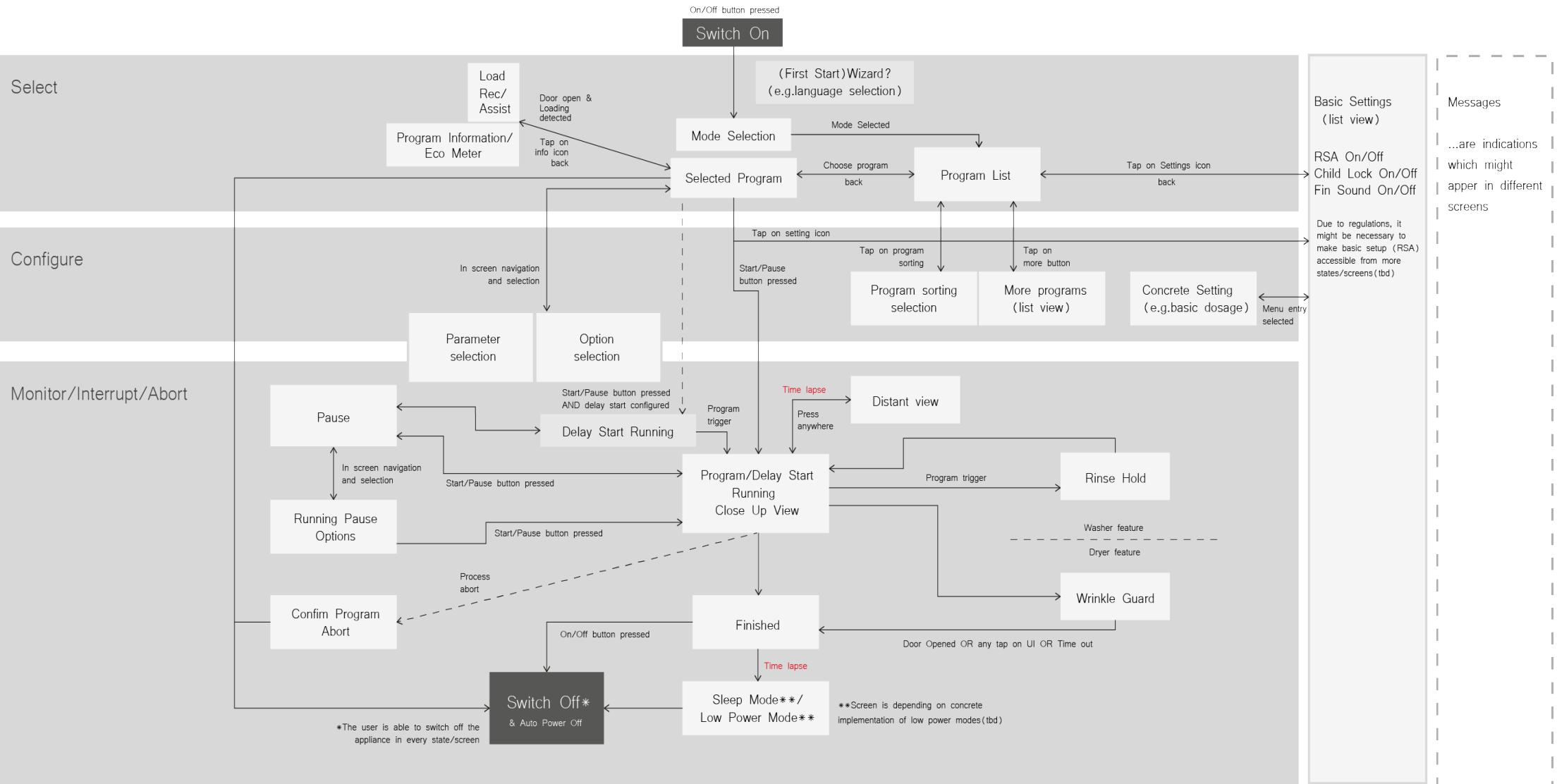
2.1.1 Panel Bosch



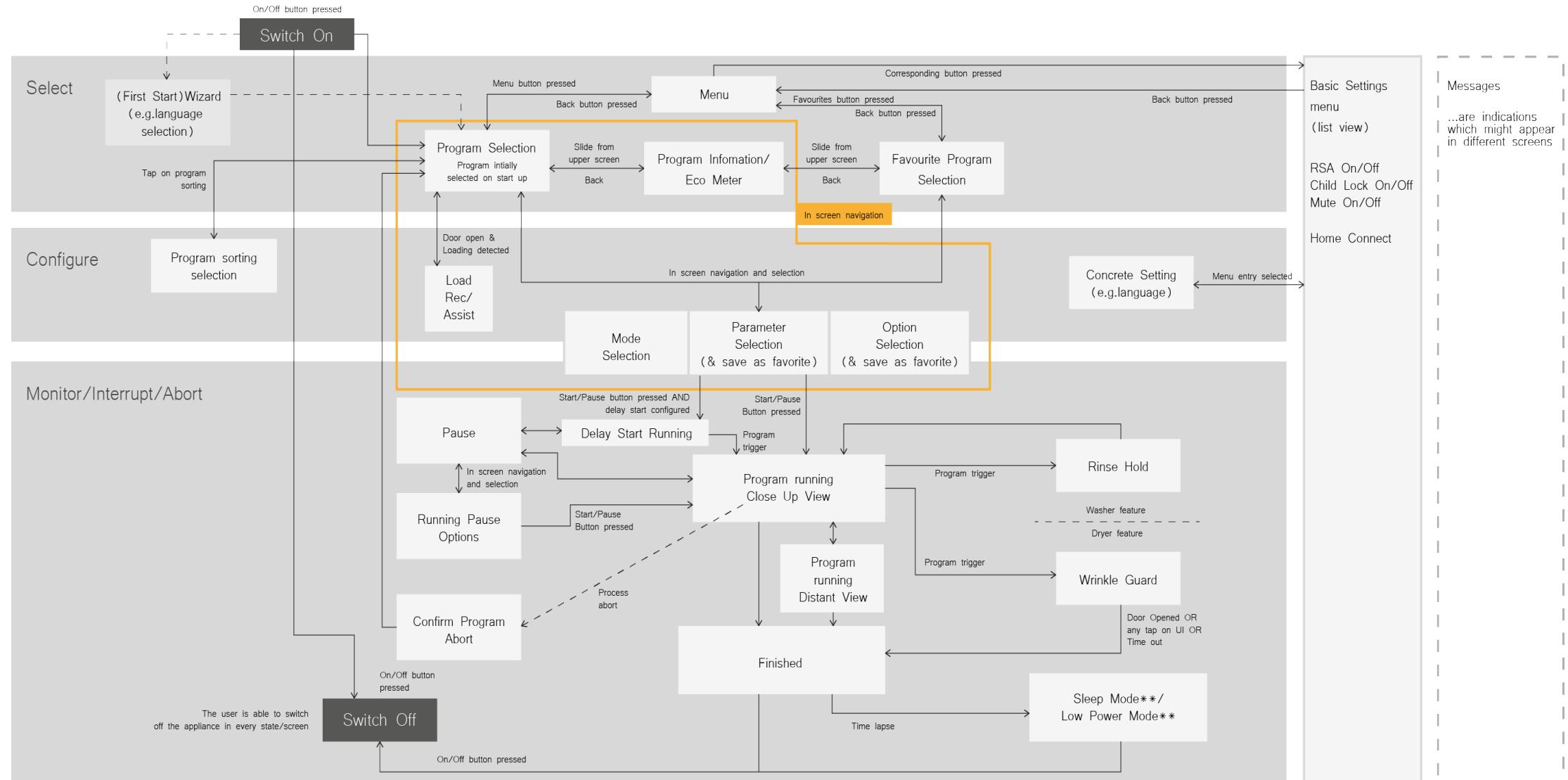
2.1.2 Panel Siemens



2.2 Navigation Concept - Siemens



2.2 Navigation Concept - Bosch



2.3 Key Screens

Key screens

 not started in work ui reviewed ic team reviewed all reviewed

Short Description

Key screen are all important screens that ensure the functionality of the appliance. They are the connection between the use cases, the navigation concept and the concrete screen requirements.

Washer WasherDryer Dryer

Key screens

Siemens - 1. Mode selection screen

not started in work ui reviewed ic team reviewed all reviewed



Key screens

Siemens - 2. Program selection screen - wash

○ not started ○ in work ○ ui reviewed ● ic team reviewed ○ all reviewed
**UI Requirements****UI 120**

The program selection must be easy in terms of the amount of programs and self-descriptiveness of labels in order to minimize the reflection effort for pragmatic users.

UI 125

The mental model of the user for sorting laundry should be supported: by color, by temperature, by textile, by type of laundry, by level of dirt.

UI 126

The user must be able to get a program duration of < 2 hours for most programs (e.g. with speed option).

UI 109

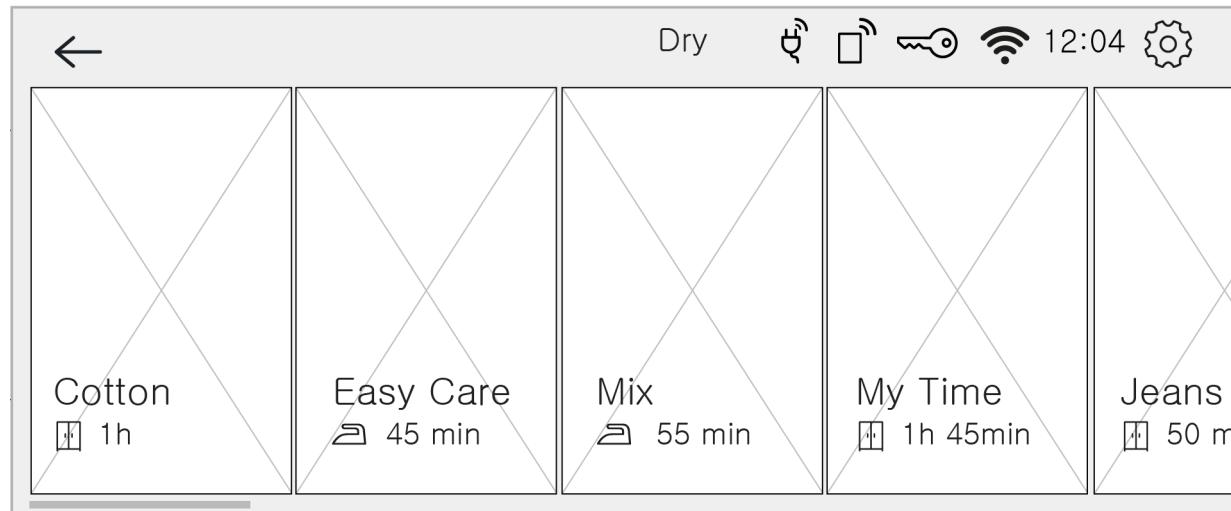
The estimated program time must be displayed during the program selection.

○ Washer ● WasherDryer ● Dryer

Key screens

Siemens - 2. Program selection screen - dry

○ not started ○ in work ○ ui reviewed ● ic team reviewed ○ all reviewed

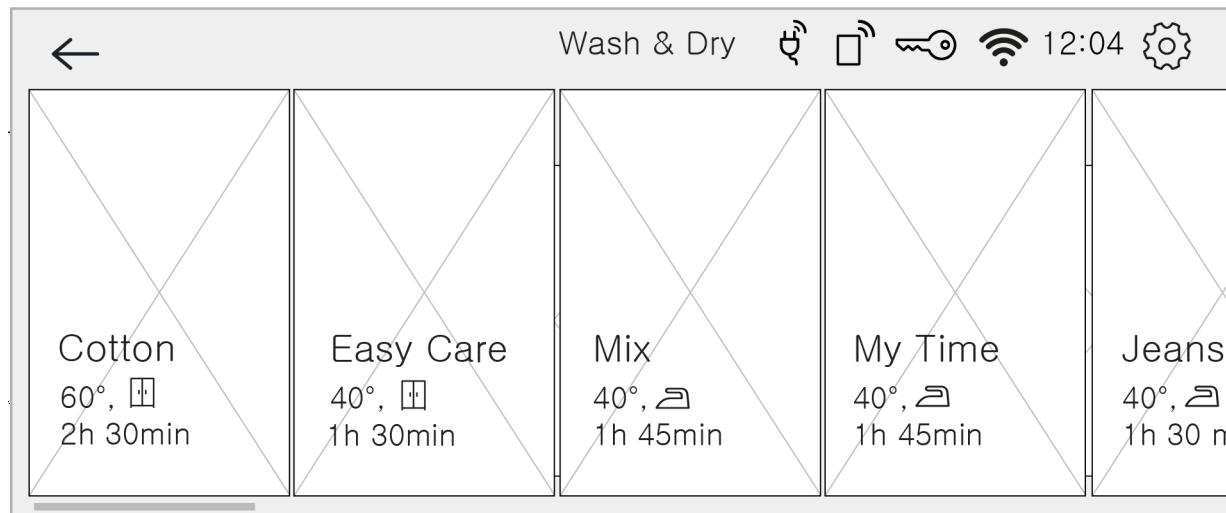


Washer WasherDryer Dryer

Key screens

Siemens - 2. Program selection screen - washdry

not started in work ui reviewed ic team reviewed all reviewed



Key screens

Siemens - 3. Favorite program selection

 not started in work ui reviewed ic team reviewed all reviewed

The new saved favorite program will be visible at the beginning of the whole program list, right after the user saved it.

For washer dryer:

The favorite programs from different modes will be saved in the according mode. E.g. favorite wash programs will be saved in the wash program list.

● Washer ● WasherDryer ○ Dryer

Key screens

Siemens - 4. Further program selection / Program library

○ not started ○ in work ● ui reviewed ○ ic team reviewed ○ all reviewed



Washer WasherDryer Dryer

Key screens

Siemens - 4. Further program selection / Program library

not started in work ui reviewed ic team reviewed all reviewed

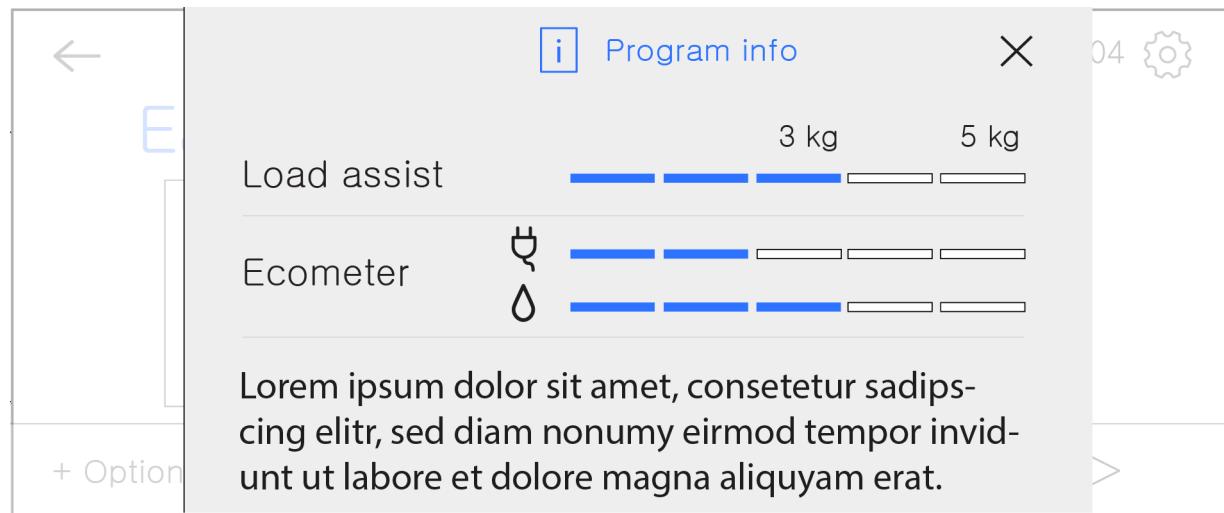


● Washer ● WasherDryer ○ Dryer

Key screens

Siemens - 5. Program information

○ not started ○ in work ● ui reviewed ○ ic team reviewed ○ all reviewed



● Washer ● WasherDryer ○ Dryer

Key screens

Siemens - 6. Program sorting

○ not started ○ in work ● ui reviewed ○ ic team reviewed ○ all reviewed



● Washer ● WasherDryer ○ Dryer

Key screens

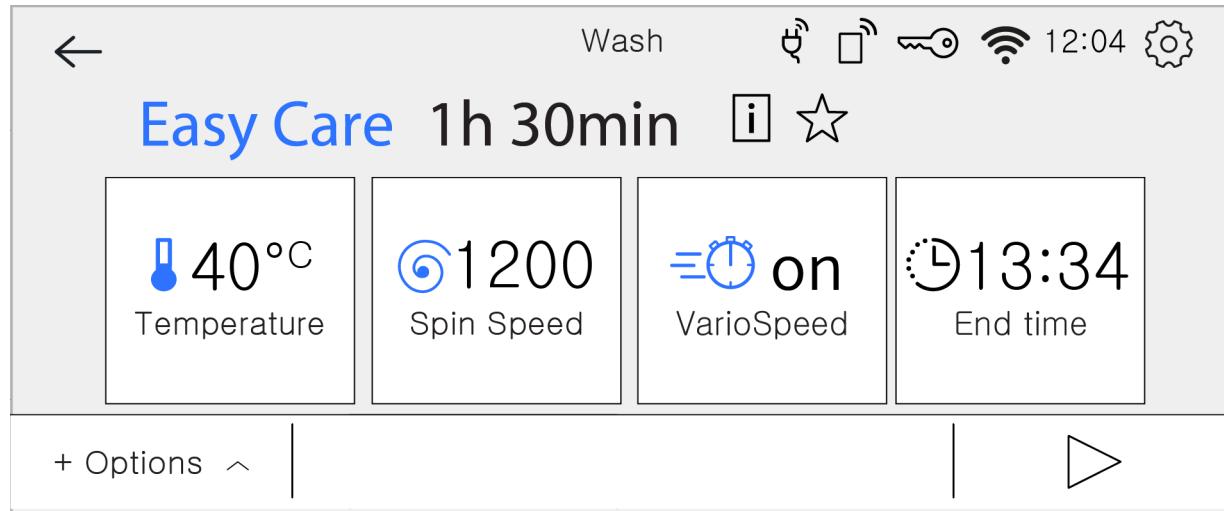
Siemens - 6. Program sorting

○ not started ○ in work ● ui reviewed ○ ic team reviewed ○ all reviewed



Key screens

Siemens - 7. Configure overview of selected program screen

○ not started ○ in work ● ui reviewed ○ ic team reviewed ○ all reviewed
**UI Requirements****UI 43**

Default values must be available for the user as a guideline. The user must be able to individually modify these values.

UI 44

The user must be able to reset the parameters anytime by a specified action.

UI 45

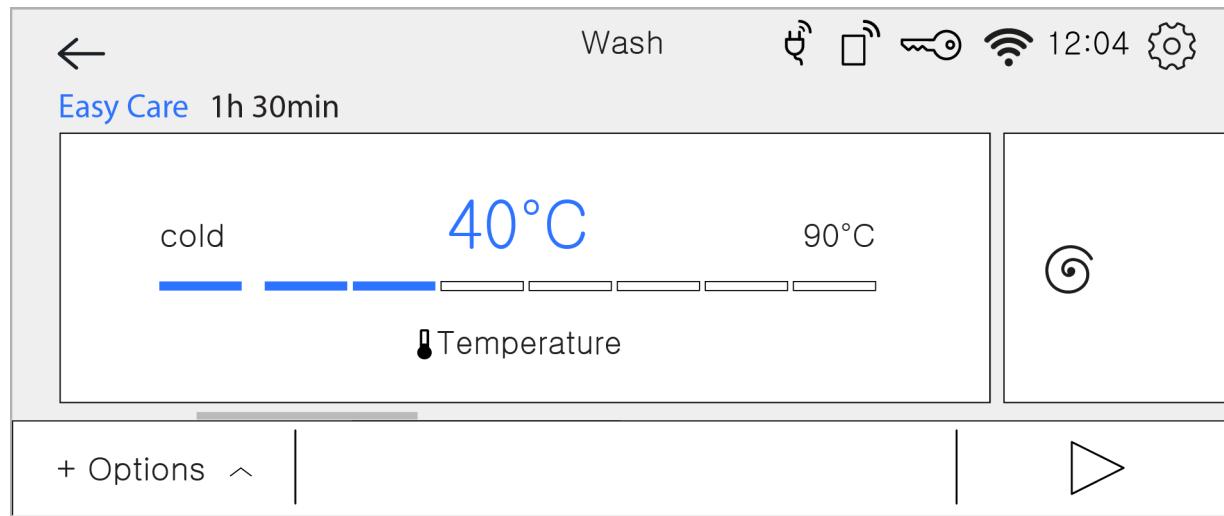
The user must be able to identify where and how he can select primary parameters for a program.

UI 48

The user must be able to recognize where and how to change options (secondary parameters).

Key screens

Siemens - 8. Configure primary parameter screen

○ not started ○ in work ● ui reviewed ○ ic team reviewed ○ all reviewed
**UI Requirements****UI 46**

The user must be able to identify whether a particular primary parameter is currently selected.

UI 48

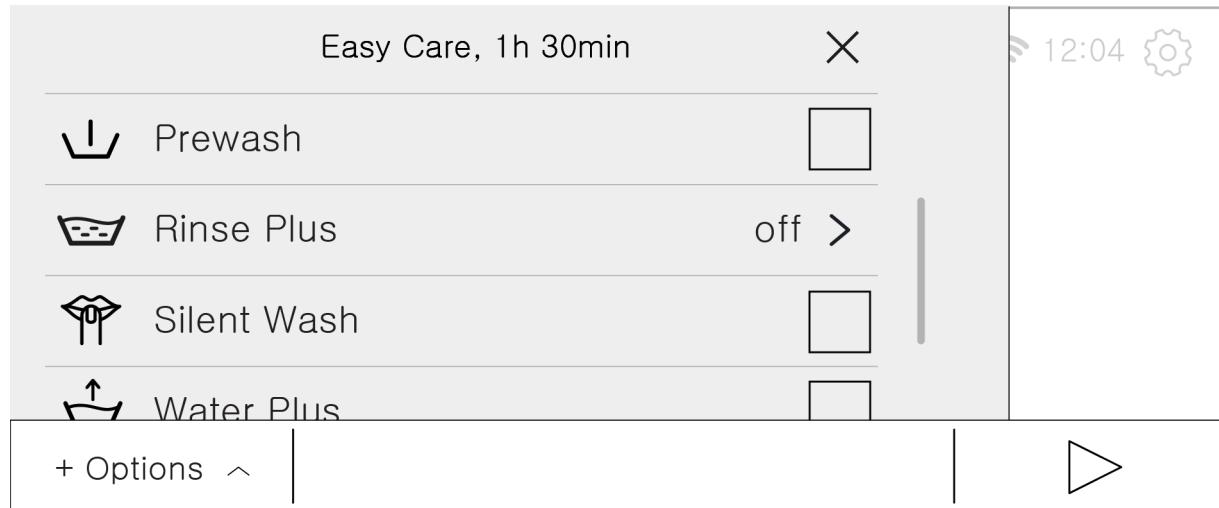
The user must be able to recognize where and how to change options (secondary parameters).

UI 49

The user must be able to recognize immediately how any change in parameters influences other parameters.

Key screens

Siemens - 9. Configure additional options

○ not started ○ in work ● ui reviewed ○ ic team reviewed ○ all reviewed
**UI Requirements****UI 48**

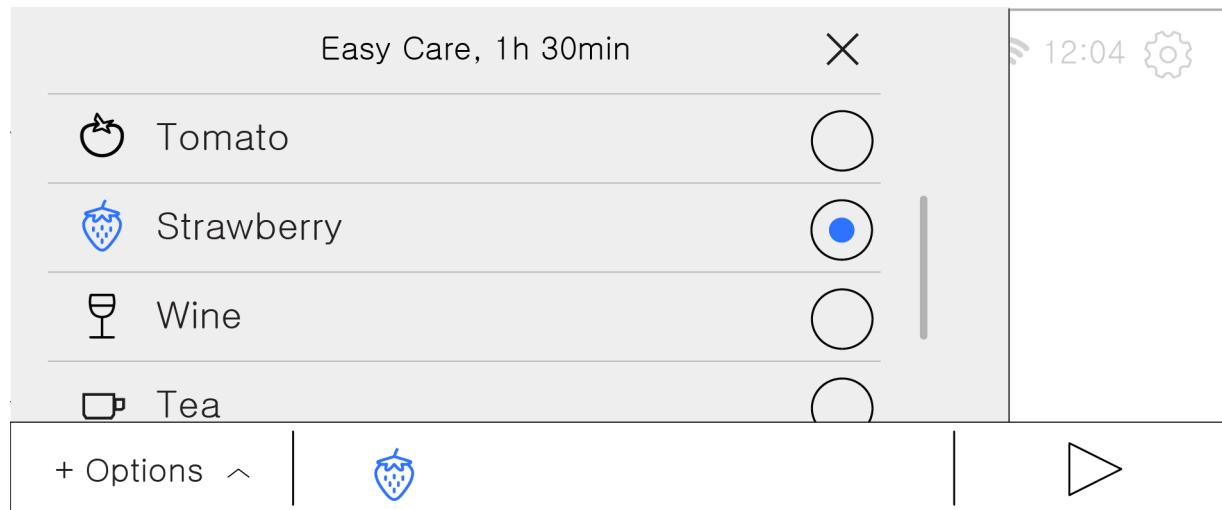
The user must be able to recognize where and how to change options (secondary parameters).

Washer WasherDryer Dryer

Key screens

Siemens - 9.1. Configure stains

not started in work ui reviewed ic team reviewed all reviewed

**UI Requirements****UI 78**

The stain option should allow combinations of multiple stains.

UI 79

The stains option should not prolong the washing cycle by more than 1,5 hours.

Washer WasherDryer Dryer

Key screens

Siemens - 10. Running close-up view

not started in work ui reviewed ic team reviewed all reviewed



UI Requirements:

UI 71

If a real time clock is available: The predicted ending time must be displayed after program start.

UI 110

The remaining time should be updated during the program cycle to keep it up-to-date.

UI 51

The user must be able to immediately see when a timed operation will be finished.

Key screens

Siemens - 11. Running distant view

 not started in work ui reviewed ic team reviewed all reviewed

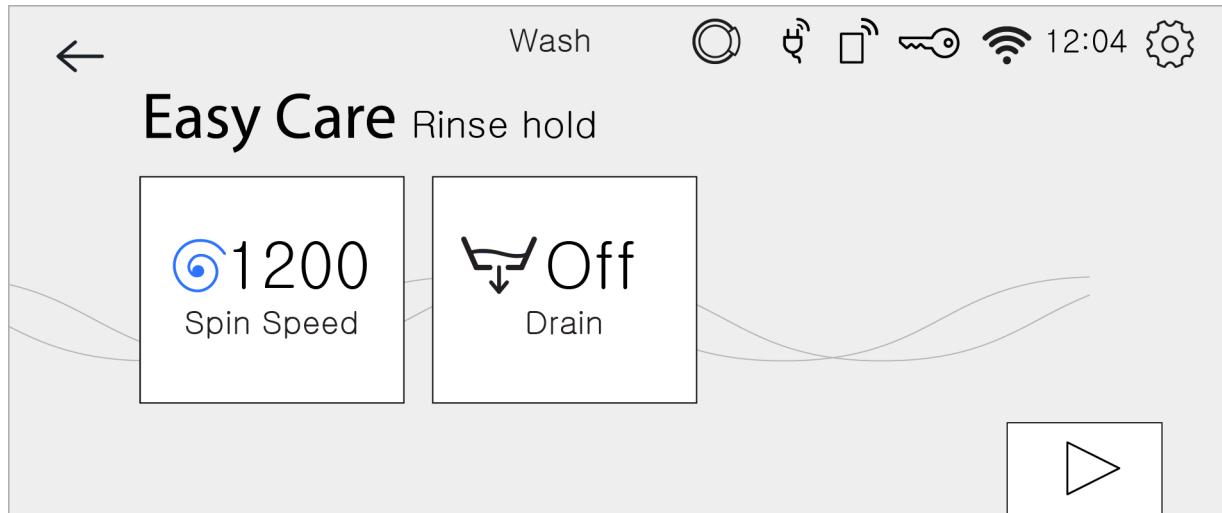
Work in progress

● Washer ● WasherDryer ○ Dryer

Key screens

Siemens - 12. Rinse hold

○ not started ○ in work ● ui reviewed ○ ic team reviewed ○ all reviewed

**UI Requirements:****UI 71**

If a real time clock is available: The predicted ending time must be displayed after program start.

UI 110

The remaining time should be updated during the program cycle to keep it up-to-date.

UI 51

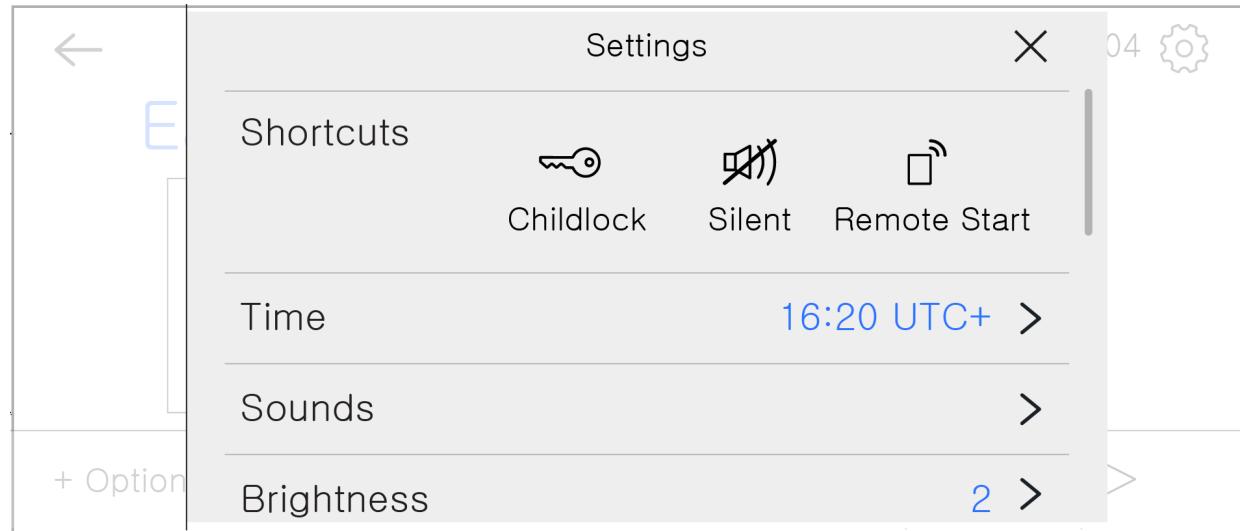
The user must be able to immediately see when a timed operation will be finished.

Open questions:

- Should the real finish time be indicated if real time clock is activated?
- E.g. Finished at 14:30

Key screens

Siemens - 13. Basic setup selection

 not started in work ui reviewed ic team reviewed all reviewed**UI Requirements****UI 48**

The user must be able to recognize where and how to change options (secondary parameters).

Key screens

Siemens - 13.1. Basic setup: Multi value

 not started in work ui reviewed ic team reviewed all reviewed**UI Requirements****UI 48**

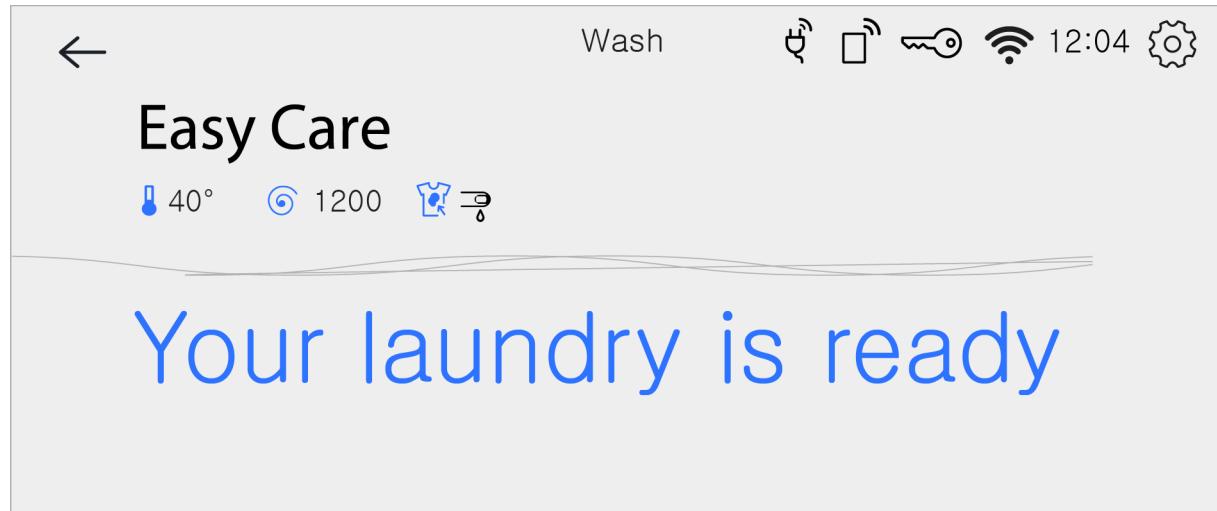
The user must be able to recognize where and how to change options (secondary parameters).

● Washer ● WasherDryer ○ Dryer

Key screens

Siemens - 14. Finished

○ not started ○ in work ● ui reviewed ○ ic team reviewed ○ all reviewed



UI Requirement

UI 130

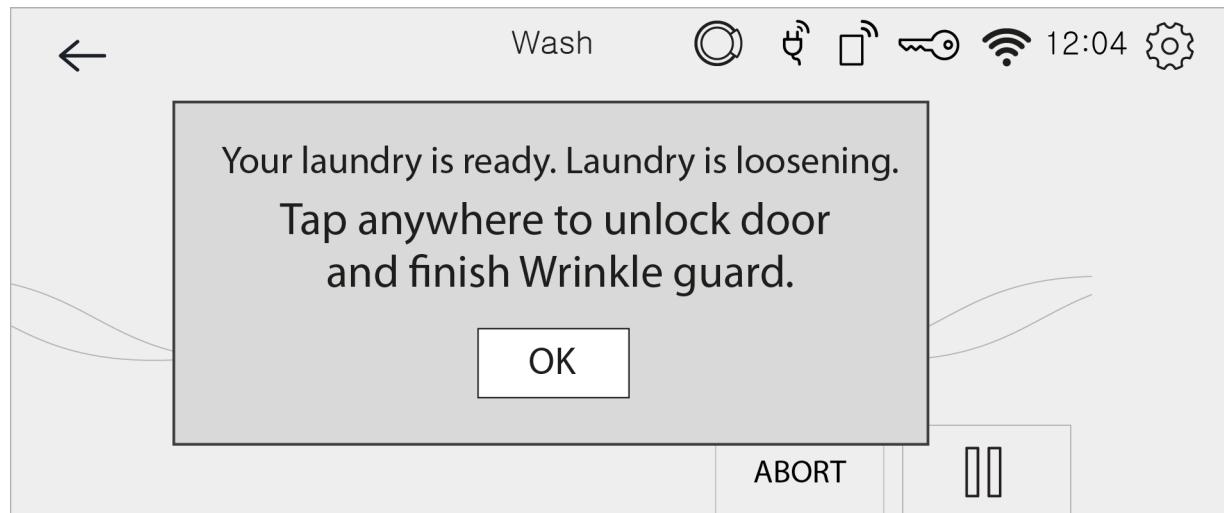
The user must be informed immediately, when the cycle is finished.

● Washer ● WasherDryer ○ Dryer

Key screens

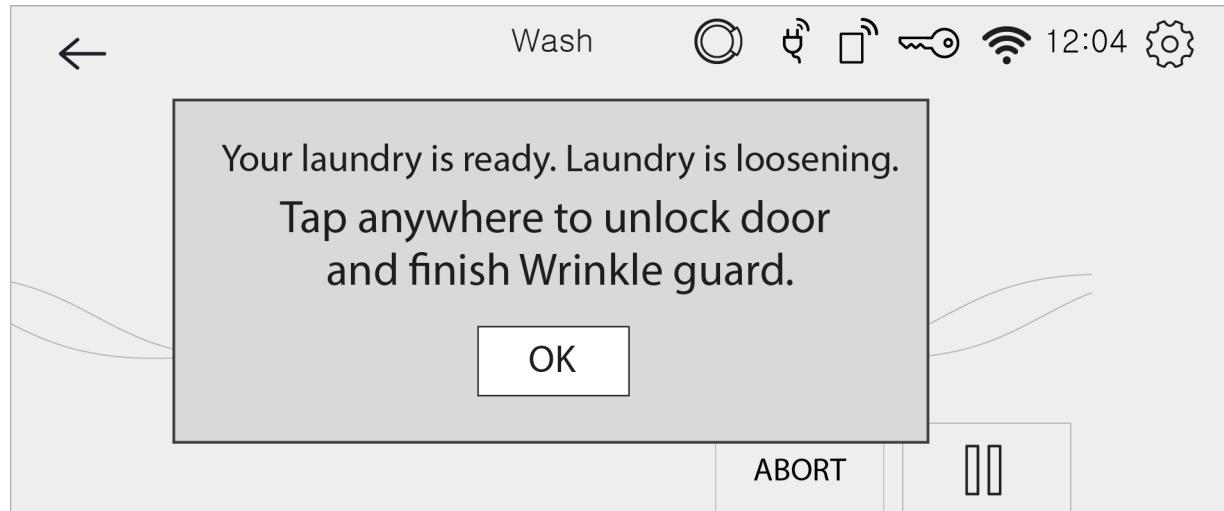
Siemens - 14.1. Wrinkle guard

○ not started ○ in work ● ui reviewed ○ ic team reviewed ○ all reviewed



Key screens

Siemens - 15.5. Message overlay

○ not started ○ in work ● ui reviewed ○ ic team reviewed ○ all reviewed


UI Requirements

UI 131

Notifications, warnings and alerts for users in order to do a special operation, must only be output, if it can be detected by the appliance automatically, that the user did accomplish the task - unless it can be confirmed within a dialogue.

15 Message general explanations

- 15.1 errors
- 15.2 request
- 15.3 confirmation
- 15.4 information

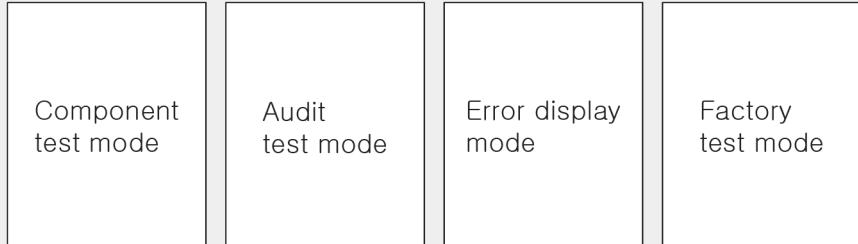
not exist at the moment (February. 2018)

Key screens

Siemens - 16. Technical Modes

 not started in work ui reviewed ic team reviewed all reviewed

← Internal modes





Key screens

Siemens - 17. Factory test

not started in work ui reviewed ic team reviewed all reviewed

Factory Test flag is set.

Pull Plug to exit. Plug on again to perform the factory test.
Switch the appliance off to reset factory test flag.

Factory test variant: 3

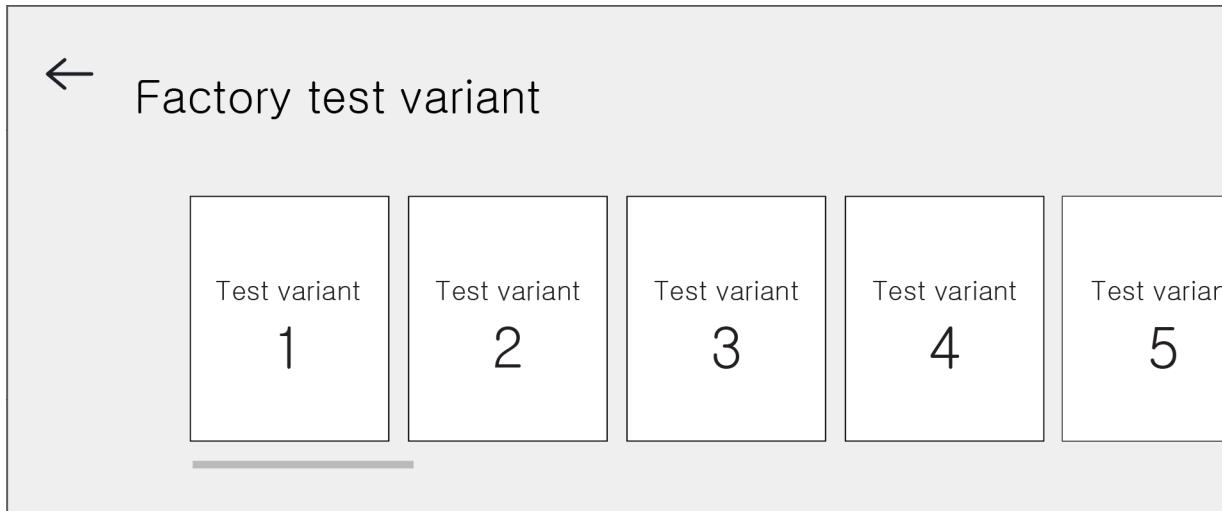
Change Variant

Washer WasherDryer Dryer

Key screens

Siemens - 17. Factory test

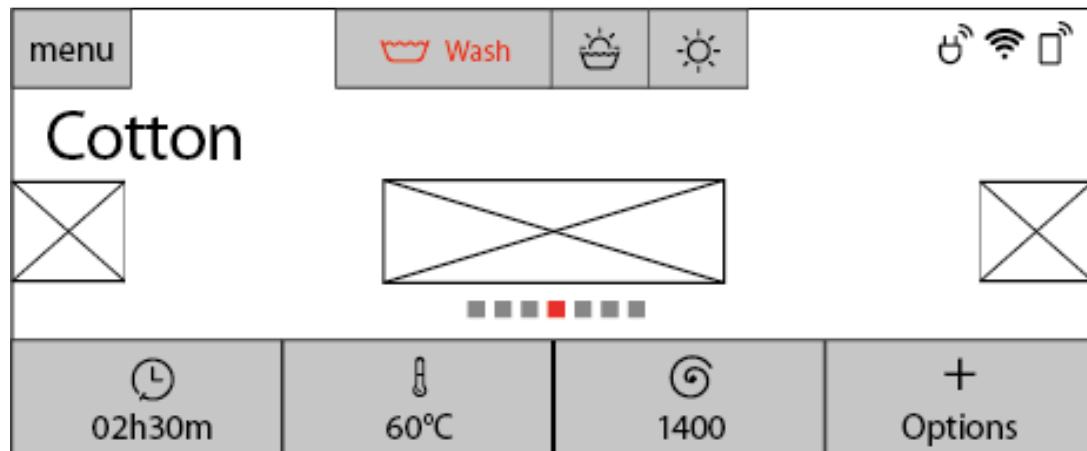
not started in work ui reviewed ic team reviewed all reviewed



Washer WasherDryer Dryer

Key screens

Bosch - 1. mode selection screen

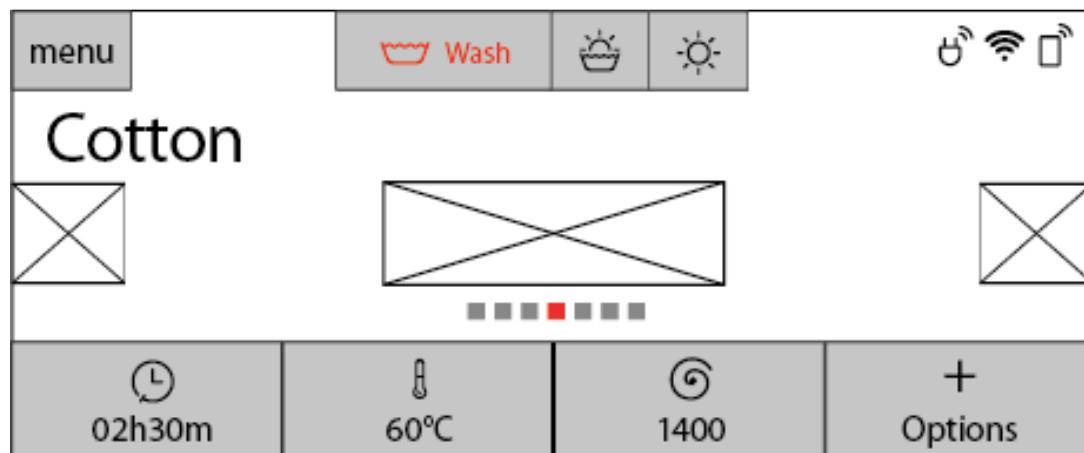
 not started in work ui reviewed ic team reviewed all reviewed

- If real time clock activated, where should it be indicated?

Key screens

Bosch - 2. Program selection screen - wash

not started in work ui reviewed ic team reviewed all reviewed



- If real time clock activated, where should it be indicated?

UI Requirements**UI 43**

Default values must be available for the user as a guideline. The user must be able to individually modify these values.

UI 44

The user must be able to reset the parameters anytime by a specified action.

UI 45

The user must be able to identify where and how he can select primary parameters for a program.

UI 48

The user must be able to recognize where and how to change options (secondary parameters).

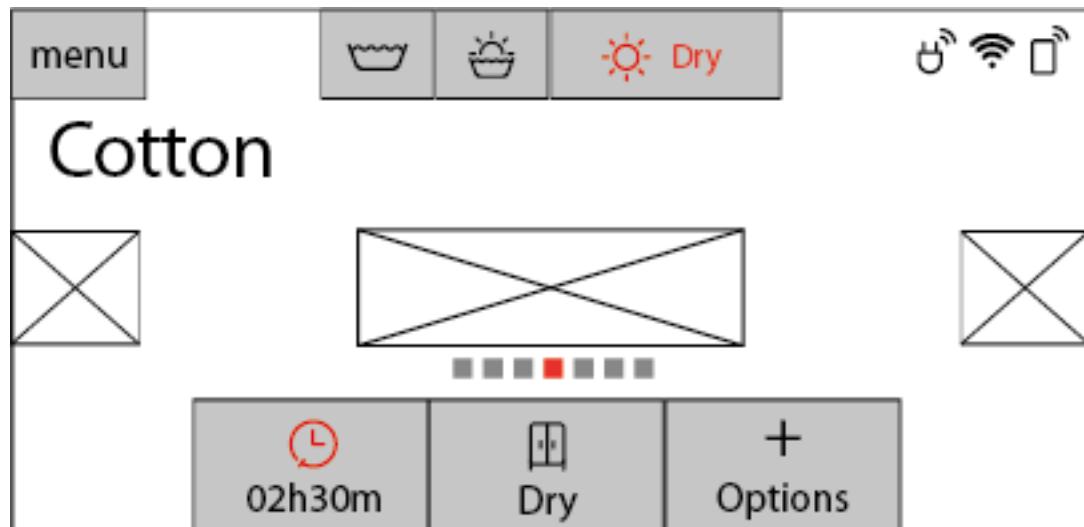
UI 109

The estimated program time must be displayed during the program selection.

Washer WasherDryer Dryer

Key screens

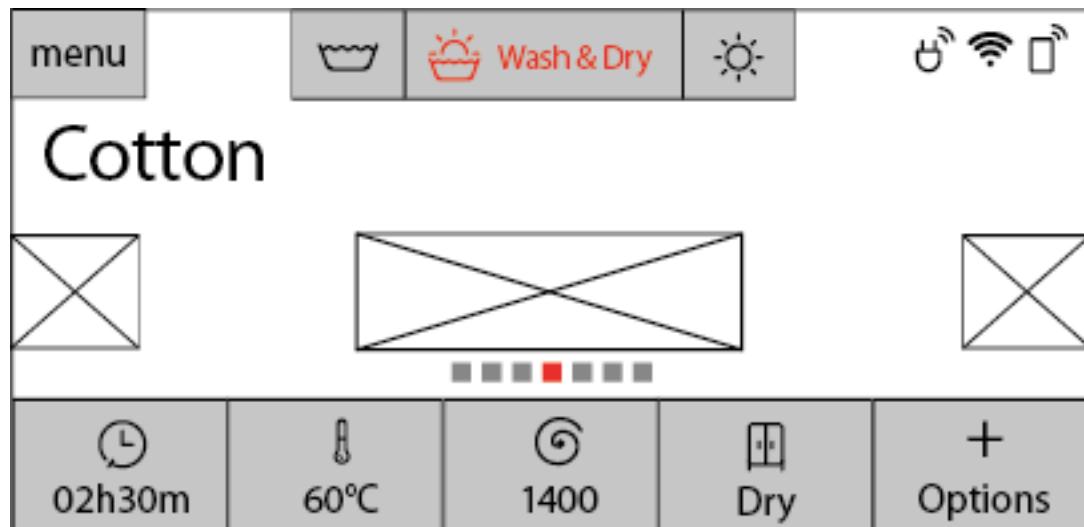
Bosch - 2. Program selection screen - dry

 not started in work ui reviewed ic team reviewed all reviewed

Washer WasherDryer Dryer

Key screens

Bosch - 2. Program selection screen - wash & dry

 not started in work ui reviewed ic team reviewed all reviewed

Key screens

Bosch- 3. Favorite program selection

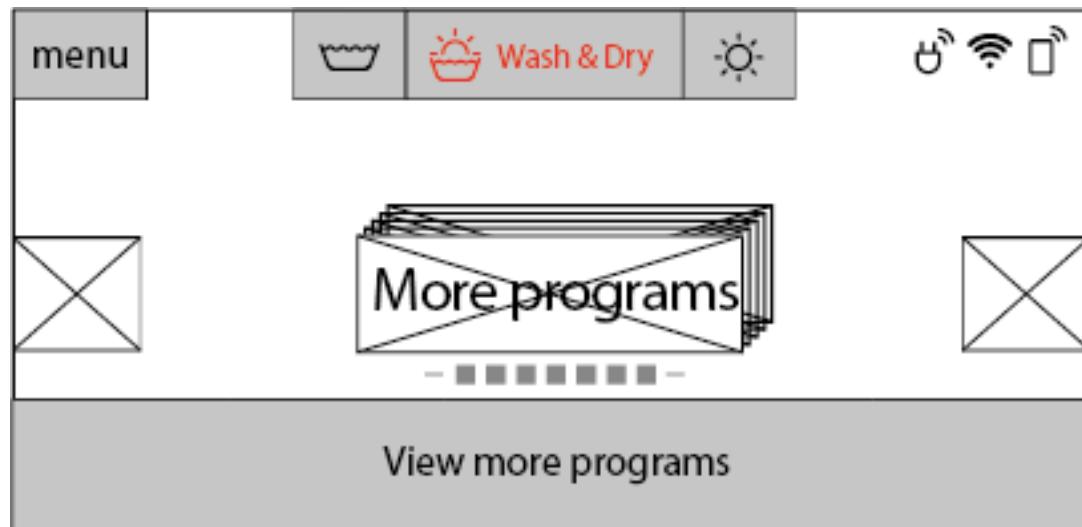
 not started in work ui reviewed ic team reviewed all reviewed

Work in progress

Washer WasherDryer Dryer

Key screens

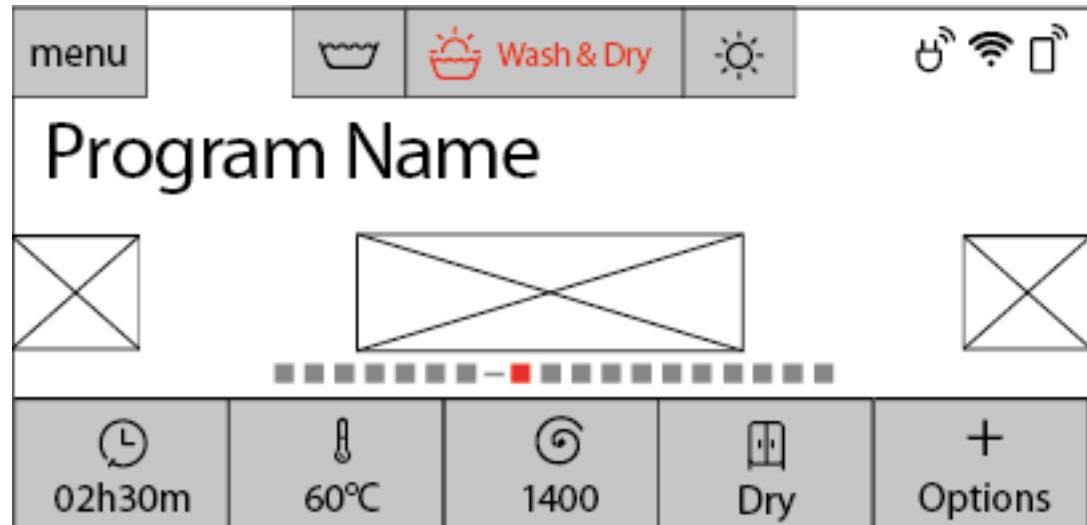
Bosch - 4. Further program selection / Program library

 not started in work ui reviewed ic team reviewed all reviewed

Washer WasherDryer Dryer

Key screens

Bosch - 4. Further program selection / Program library

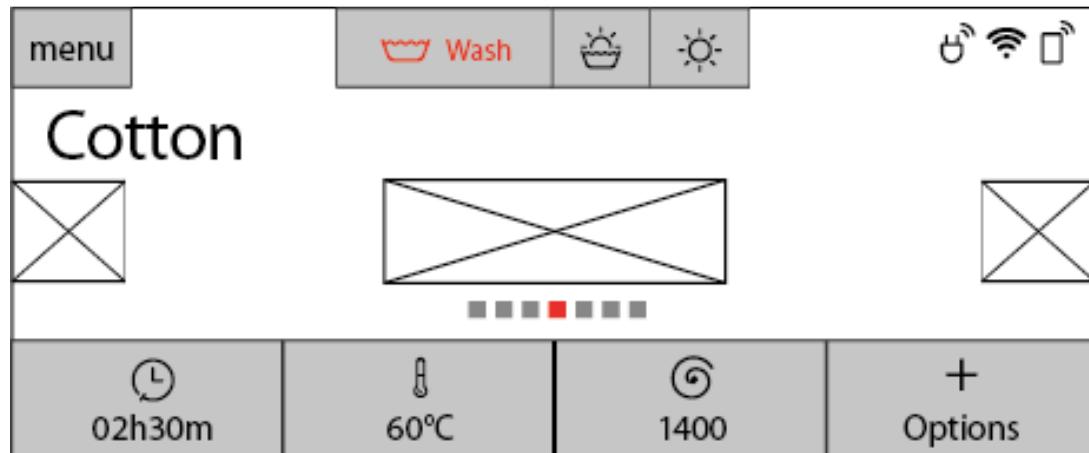
 not started in work ui reviewed ic team reviewed all reviewed

● Washer ● WasherDryer ○ Dryer

Key screens

Bosch - 5. Program information

○ not started ● in work ○ ui reviewed ○ ic team reviewed ○ all reviewed



Washer WasherDryer Dryer

Key screens

Bosch - 6. Program sorting

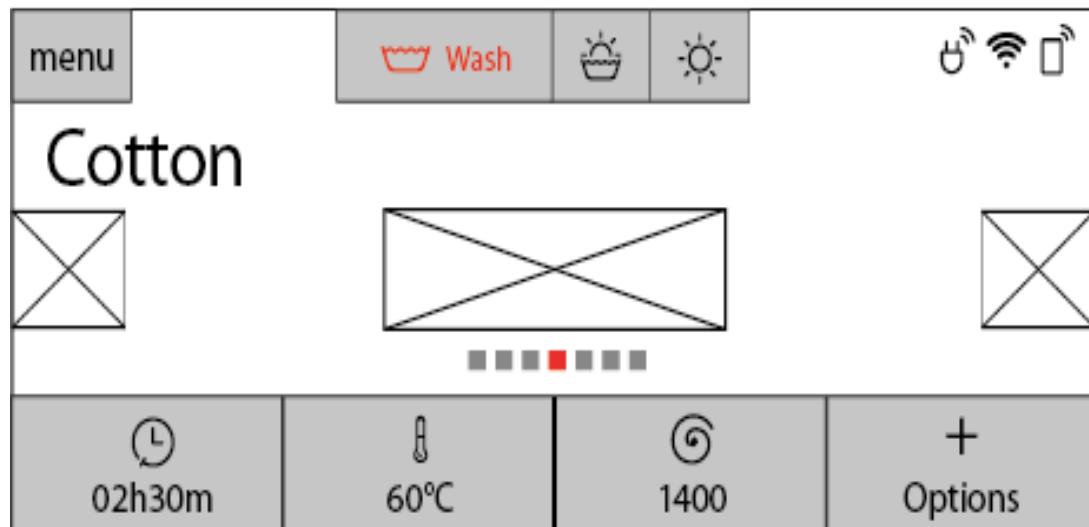
 not started in work ui reviewed ic team reviewed all reviewed

● Washer ● WasherDryer ○ Dryer

Key screens

Bosch - 7. Configure overview of selected program

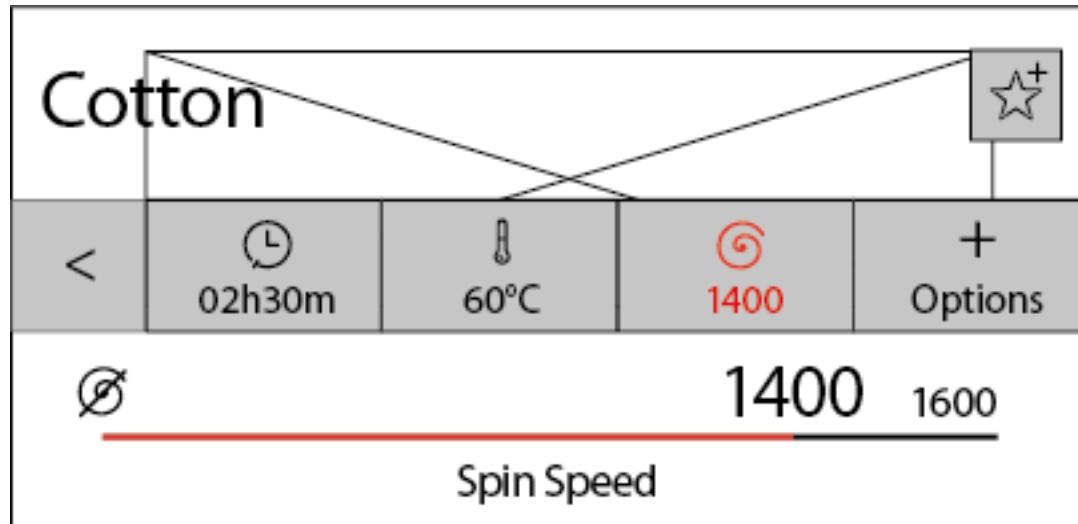
○ not started ● in work ○ ui reviewed ○ ic team reviewed ○ all reviewed



Key screens

Bosch - 8. Configure primary parameter

not started in work ui reviewed ic team reviewed all reviewed

**UI Requirements****UI 46**

The user must be able to identify whether a particular primary parameter is currently selected.

UI 48

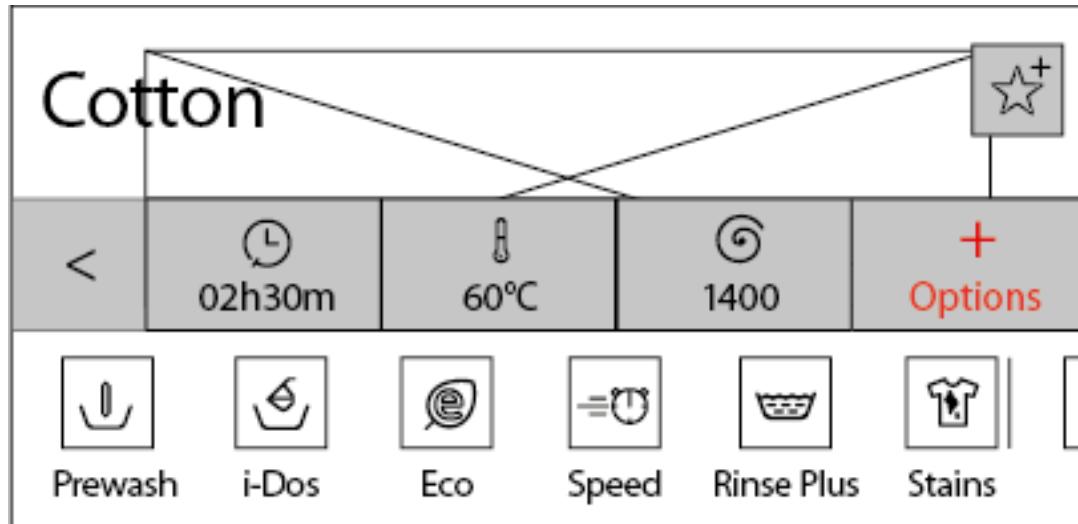
The user must be able to recognize where and how to change options (secondary parameters).

UI 49

The user must be able to recognize immediately how any change in parameters influences other parameters.

Key screens

Bosch - 9. Configure additional options

 not started in work ui reviewed ic team reviewed all reviewed
**UI Requirements****UI 48**

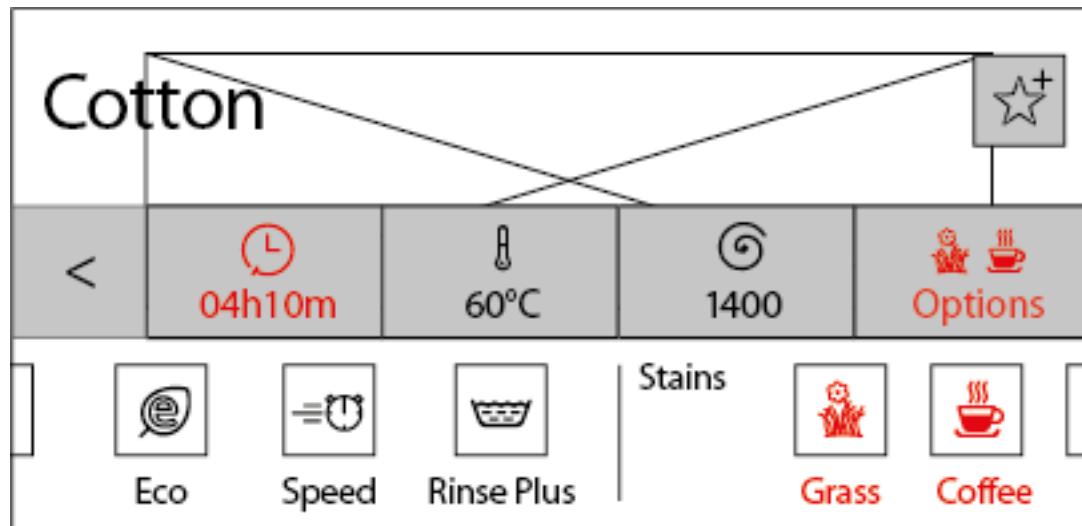
The user must be able to recognize where and how to change options (secondary parameters).

Washer WasherDryer Dryer

Key screens

Bosch - 9. Configure stains

not started in work ui reviewed ic team reviewed all reviewed

**UI Requirements****UI 49**

The user must be able to recognize immediately how any change in parameters influences other parameters.

UI 78

The stain option should allow combinations of multiple stains.

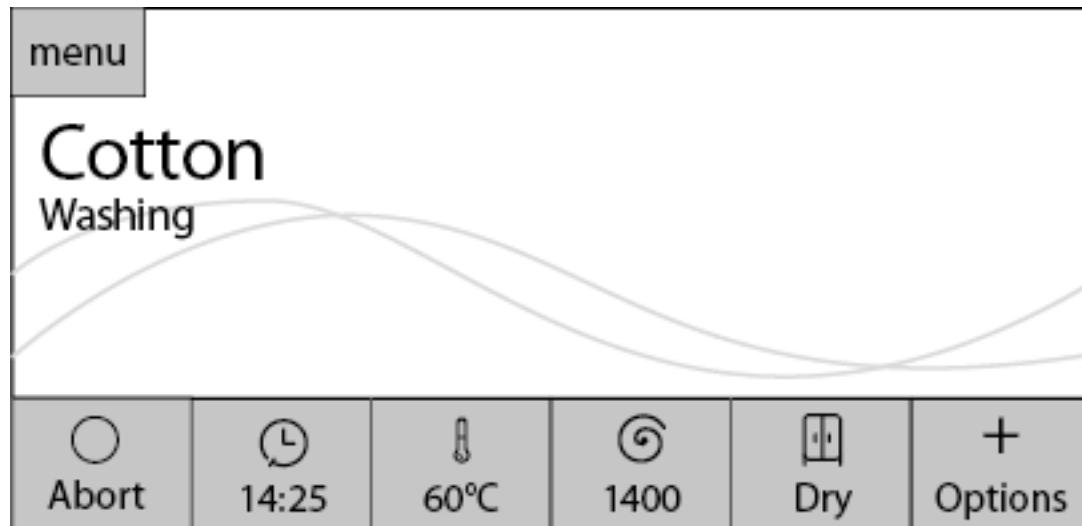
UI 79

The stains option should not prolong the washing cycle by more than 1,5 hours.

Key screens

Bosch - 10. Running close-up view

not started in work ui reviewed ic team reviewed all reviewed

**UI Requirements:****UI 71**

If a real time clock is available: The predicted ending time must be displayed after program start.

UI 110

The remaining time should be updated during the program cycle to keep it up-to-date.

UI 51

The user must be able to immediately see when a timed operation will be finished.

Open questions:

- Should the real time clock be indicated? Real finish time is indicated.
- Access to menu via button during washing process yes or not?

Washer WasherDryer Dryer

Key screens

Bosch - 11. Running distant view

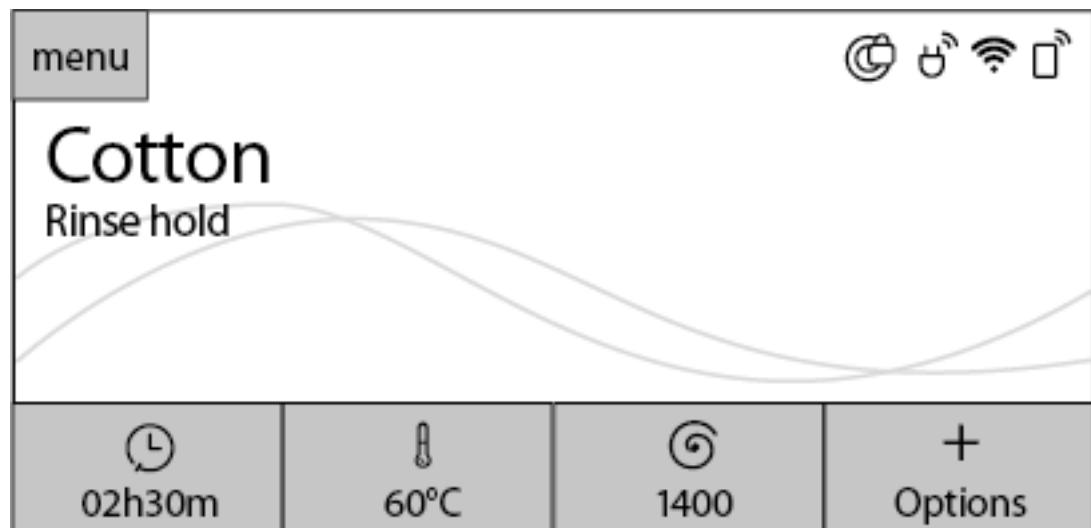
not started in work ui reviewed ic team reviewed all reviewed



Open questions:

- Should the real time clock be indicated? Real finish time is indicated.
- Access to menu via button during washing process yes or not?

Key screens

Bosch - 12. Rinse hold
○ not started ● in work ○ ui reviewed ○ ic team reviewed ○ all reviewed
**UI Requirements****UI 51**

The user must be able to immediately see when a timed operation will be finished.

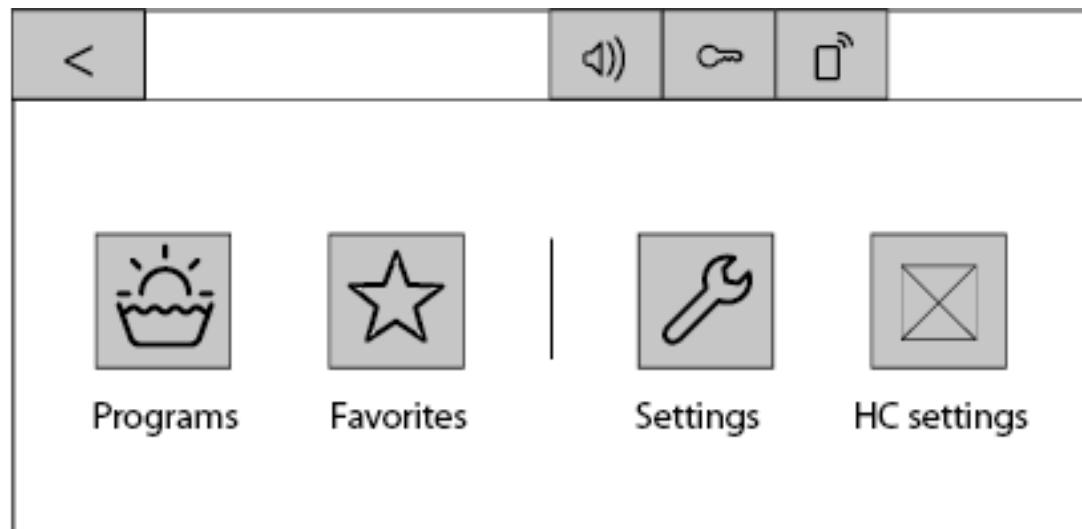
Open questions:

- Access to menu via button during rinse hold yes or not?

Washer WasherDryer Dryer

Key screens

Bosch - 13. Basic setup selection

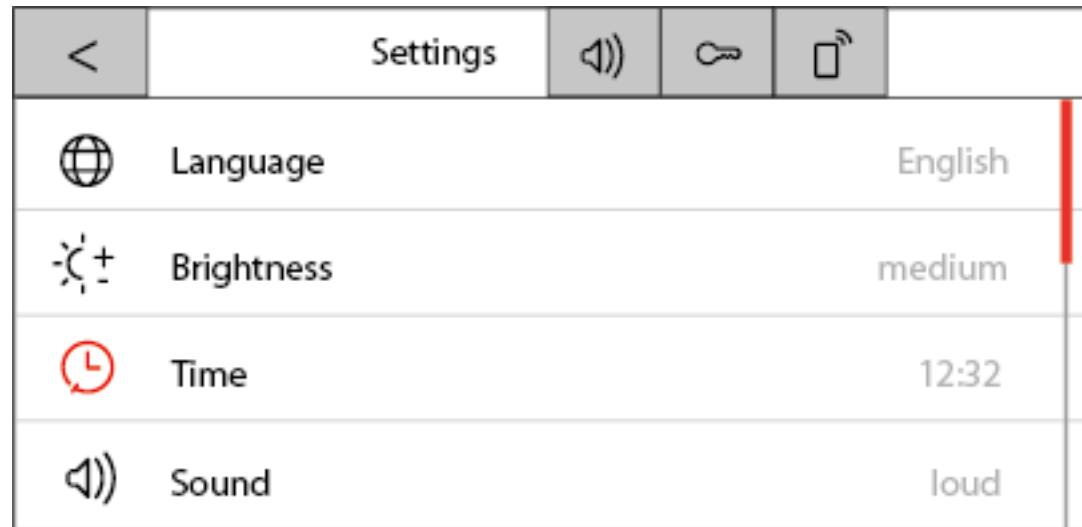
 not started in work ui reviewed ic team reviewed all reviewed

UI Requirements

UI 48

The user must be able to recognize where and how to change options (secondary parameters).

Key screens

Bosch - 13.3. Basic setup: Multi value list
○ not started ● in work ○ ui reviewed ○ ic team reviewed ○ all reviewed
**UI Requirements****UI 48**

The user must be able to recognize where and how to change options (secondary parameters).

- 13.1. Basic setup: Multi value
- 13.2. Basic setup: Multi value two options
- 13.4. Basic setup: Multi value on/off
- 13.5. Basic setup: i-Dos dosage

not exist at the moment (February. 2018)

Key screens

Bosch - 14. Finished

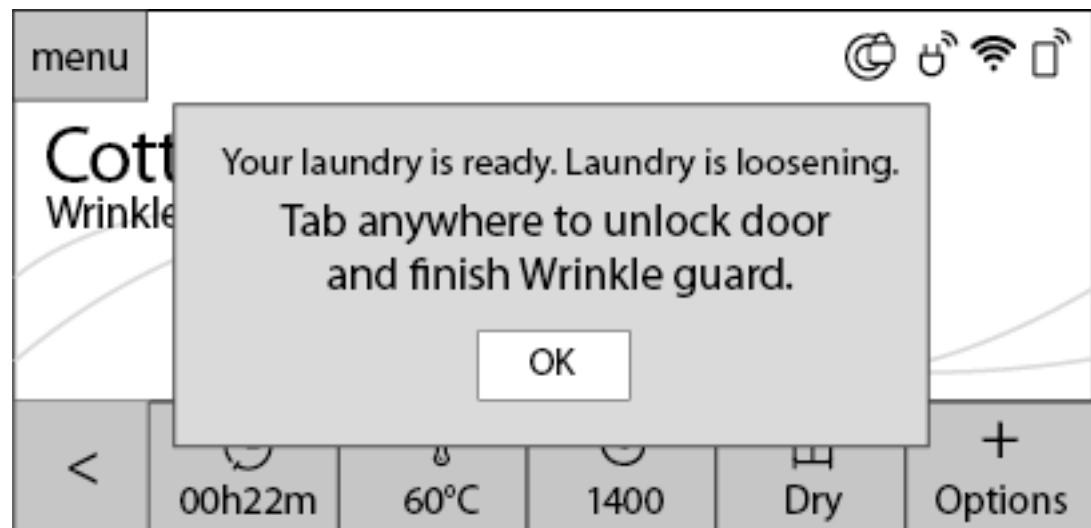
 not started in work ui reviewed ic team reviewed all reviewed**UI Requirement****UI 130**

The user must be informed immediately, when the cycle is finished.

Washer WasherDryer Dryer

Key screens

Bosch - 14.1. Wrinkle guard

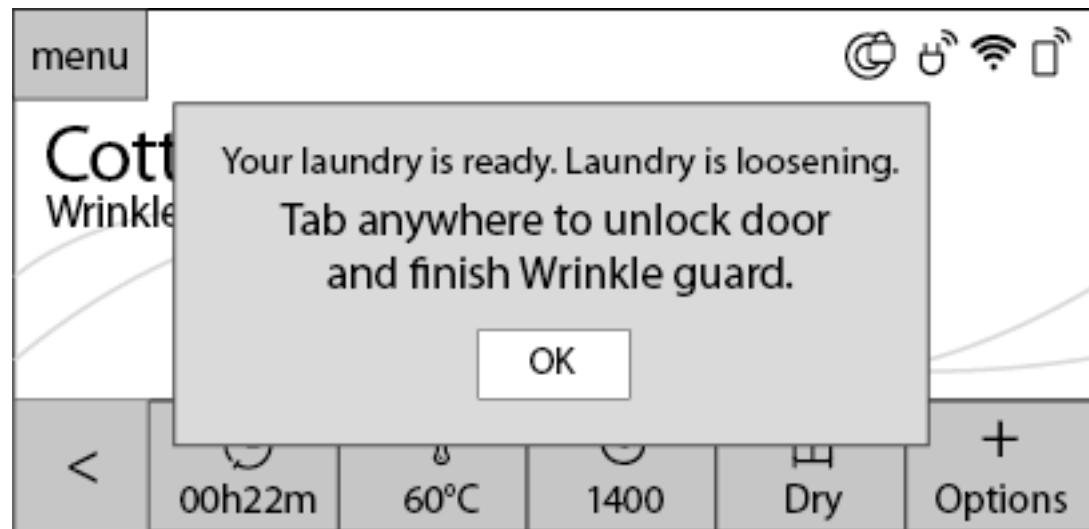
 not started in work ui reviewed ic team reviewed all reviewed

Open questions:

- Access to menu via button during wrinkleguard process yes or not?

Key screens

Bosch - 15.5. Message - overlay

○ not started ● in work ○ ui reviewed ○ ic team reviewed ○ all reviewed
**UI Requirement****UI 131**

Notifications, warnings and alerts for users in order to do a special operation, must only be output, if it can be detected by the appliance automatically, that the user did accomplish the task - unless it can be confirmed within a dialogue.

15 Message general explanations

- 15.1 errors
- 15.2 request
- 15.3 confirmation
- 15.4 information

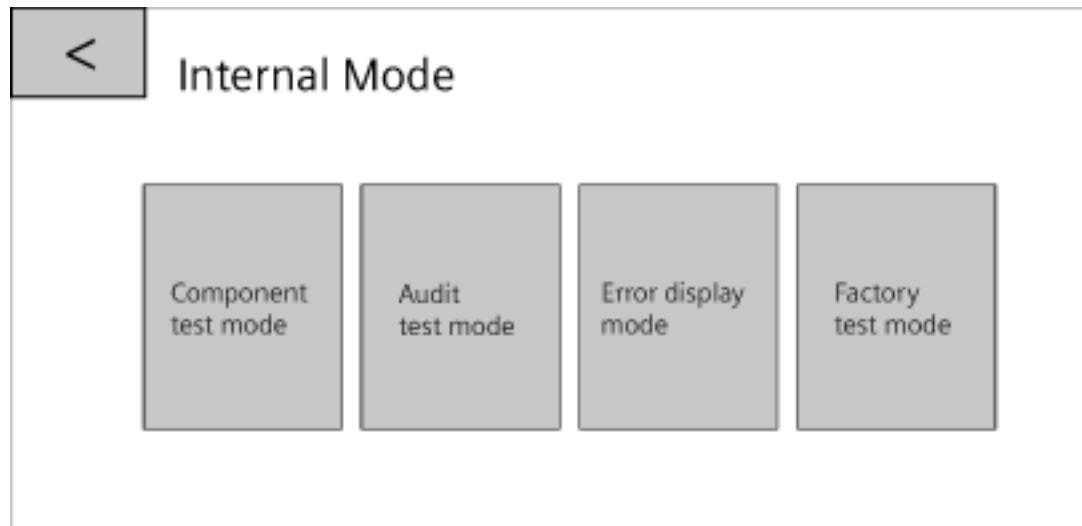
not exist at the moment (February. 2018)

Washer WasherDryer Dryer

Key screens

Bosch - 16. Technical Modes

not started in work ui reviewed ic team reviewed all reviewed



Washer WasherDryer Dryer

Key screens

Bosch - 17. Factory test

not started in work ui reviewed ic team reviewed all reviewed

Factory Test flag is set.

Pull Plug to exit. Plug on again to perform the factory test.
Switch the appliance off to reset factory test flag.

Factory test variant: 3

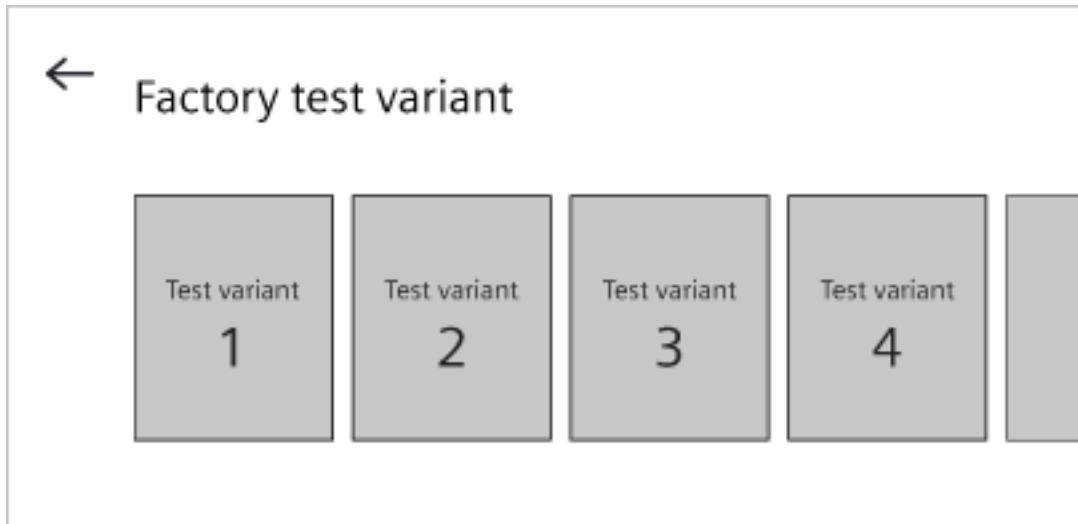
Change Variant

Washer WasherDryer Dryer

Key screens

Bosch - 17. Factory test

not started in work ui reviewed ic team reviewed all reviewed



Use Cases and Indications

ToC of use cases & indications

Key screens	12	Selecting water plus (FA-ID 580.1)	224
Switching the appliance on/off (FA-ID 20/10)	65	Selecting easy iron (FA-ID 600.1)	233
Selecting program type (FA-ID 130)	79	Selecting rinse hold (FA-ID 620.2)	243
Selecting a program (FA-ID 500)	95	Performing rinse hold (FA-ID 620.1)	253
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Storing a memory program (FA-ID: 510.1)	119	Pausing a program (FA-ID 40)	276
Recalling a memory program (FA-ID: 510.2)	132	Aborting a program (FA-ID 565)	285
Removing a memory program (FA-ID: UI27)	136	Ending a program	292
Entering and leaving options menu (FA-ID UI23)	148	Performing factory tests (FA-ID 200)	295
Selecting temperature (FA-ID 2000.1)	155	Setting the test flag for factory test mode (FA-ID 220.0)	296
Selecting spin speed (FA-ID 700)	165	Selecting factory test program (FA-ID 220.0)	301
Selecting drying target (FA-ID 690)	175	Entering / Executing factory test mode (FA-ID 220.0)	308
Selecting drying time (FA-ID 591)	185	Leaving factory test mode (FA-ID 220.0)	316
Individualize option list	194		
Reporting remaining time (FA-ID 790)	202		
Selecting prewash (FA-ID 570.1)	213		

3.1 Use Cases

Switching the appliance on/off (FA-ID 20/10)

 not started

 in work

 ui reviewed

 ic team reviewed

 all reviewed

Short Description

The user has to switch the appliance on by using the Power on/off button.
If the appliance is off and the Power On/Off button is actuated, a short start up animation is indicated before the ready state is entered. The duration of the starting process can differ depending on if the appliance is completely switched off (cold start) or only has to wake up (warm start).

If it is first start up for the user, a start up wizard to guide the user about how to use the appliance will be shown.

The user can switch off the appliance only, if it is on. It is not possible to switch off the appliance during the booting process.

Technical Details

Cold Start:

The appliance has been without power (unplugged). To start, the system has to reload. This booting process takes about **10-20 sec (the booting time is not clear yet, clarification with development is needed, the system master performance is unknown)**.

Warm Start:

The appliance was off and plug was connected.

Touch on/off button, with light backlit symbol.

Use Context

Switching the appliance on and off is a basic function, which needs to be conform with user expectations. The „Power on/off“ button must be positioned in a way to minimize likelihood of accidental operation.

The „Power on/off“ button must be clearly recognizable through position and at least one other of these attributes: size, shape, color, haptics/texture.

When the user switches the appliance on or off, he expects a direct response to his action. If the booting/shutting down process needs some time, the appliance must communicate this system status to the user.

Remarks

*Processor for Display modul stays on, power supply also stays on. Due to security issues, **not the on/off symbol can be used, but the Standby symbol must be used.***

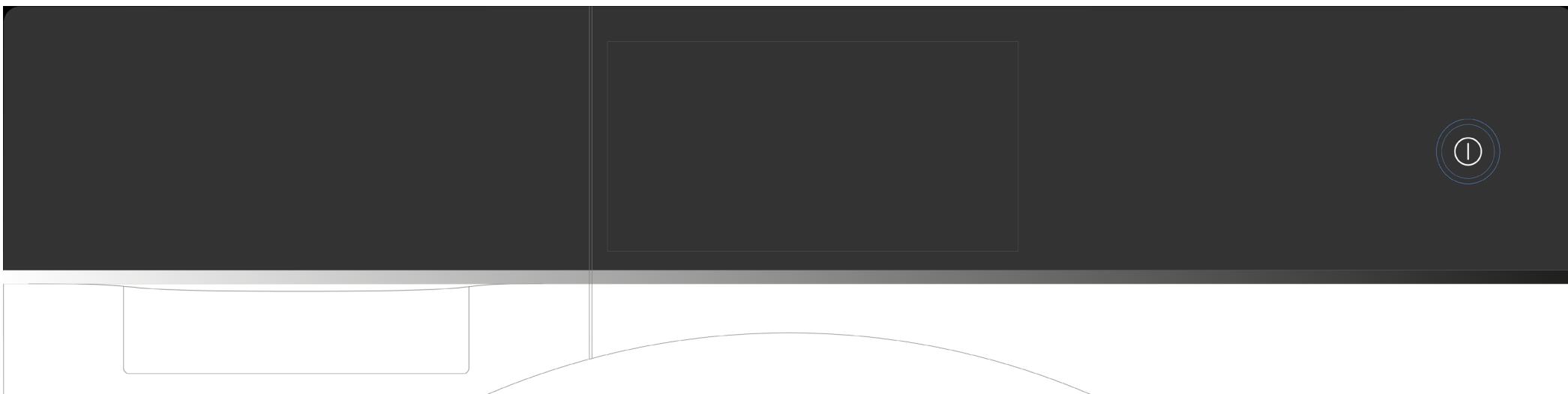
(for PADUA OT' Standby symbol should be used, comments from Jason, OT-basic concept, slide 5)

● Washer ● WasherDryer ○ Dryer

Switching the appliance on/off (FA-ID 20/10)

Initial state: Appliance off (Siemens)

○ not started ○ in work ● ui reviewed ○ ic team reviewed ○ all reviewed



Activating Trigger: Power on/off button is actuated for **250ms** to switch on the appliance.

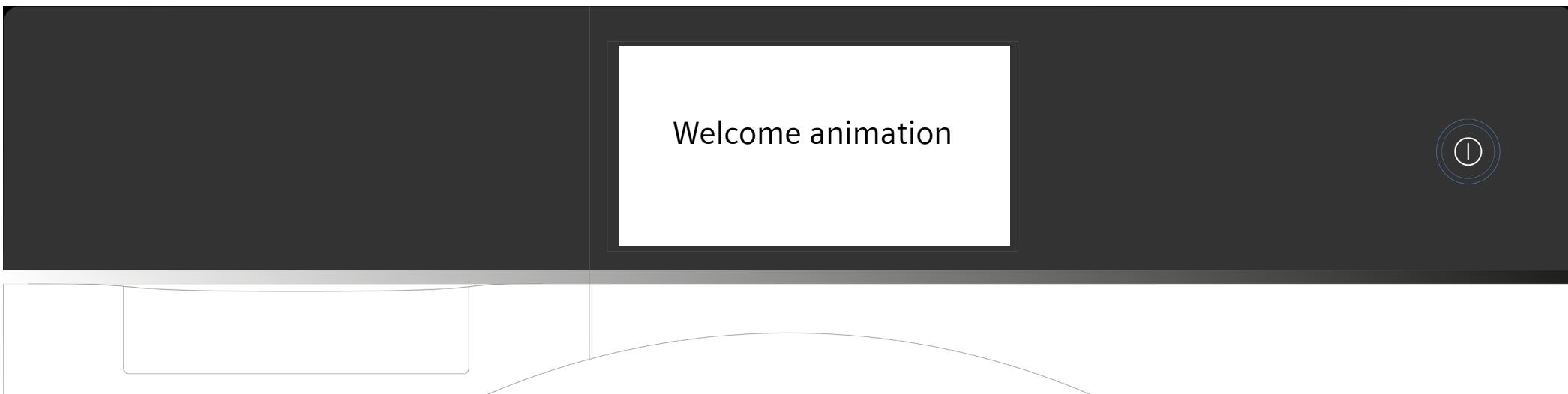
Remark: to avoid mis-operation (referred to f12 focus touch on/off button).

Washer WasherDryer Dryer

Switching the appliance on/off (FA-ID 20/10)

Indicate Start up (Siemens)

not started in work ui reviewed ic team reviewed all reviewed



Cold start: Indicate boot

The Power On/Off button LED must be flashing with flash rate 3 (1s on/1s off).

The indication „Welcome animation“ must be performed.

Warm start: Indicate Start up

The Power On/Off button LED must be on.

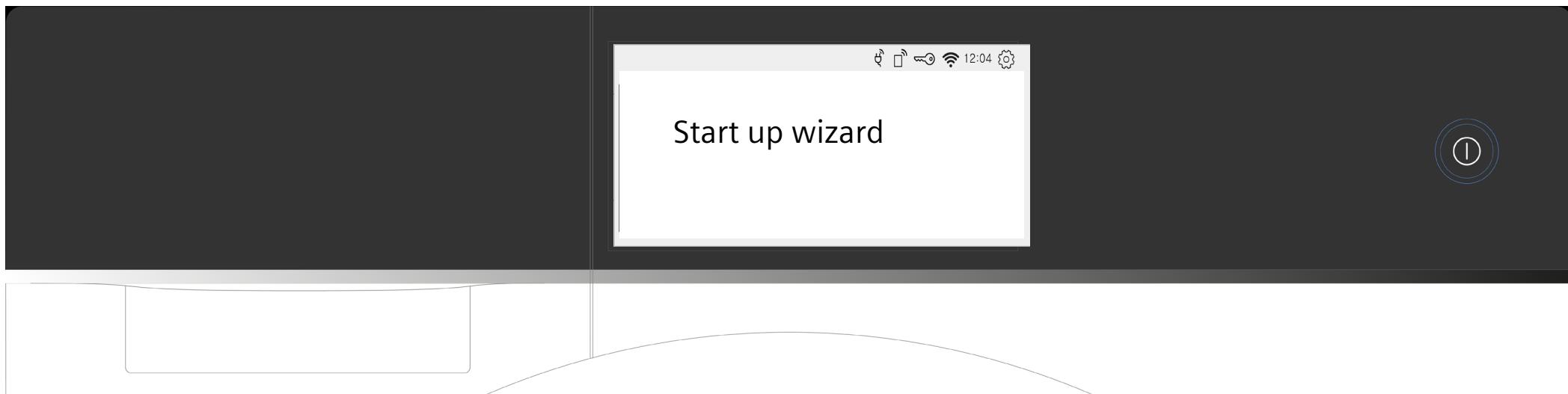
The indication „Welcome animation“ must be performed.

The „Welcome indication“ must be dynamic shown according to the appliance starting up duration for cold start and warm start.

Washer WasherDryer Dryer

Switching the appliance on/off (FA-ID 20/10)

Indicate wizard - only for first start(Siemens)

 not started in work ui reviewed ic team reviewed all reviewed

The start up wizard must be shown.

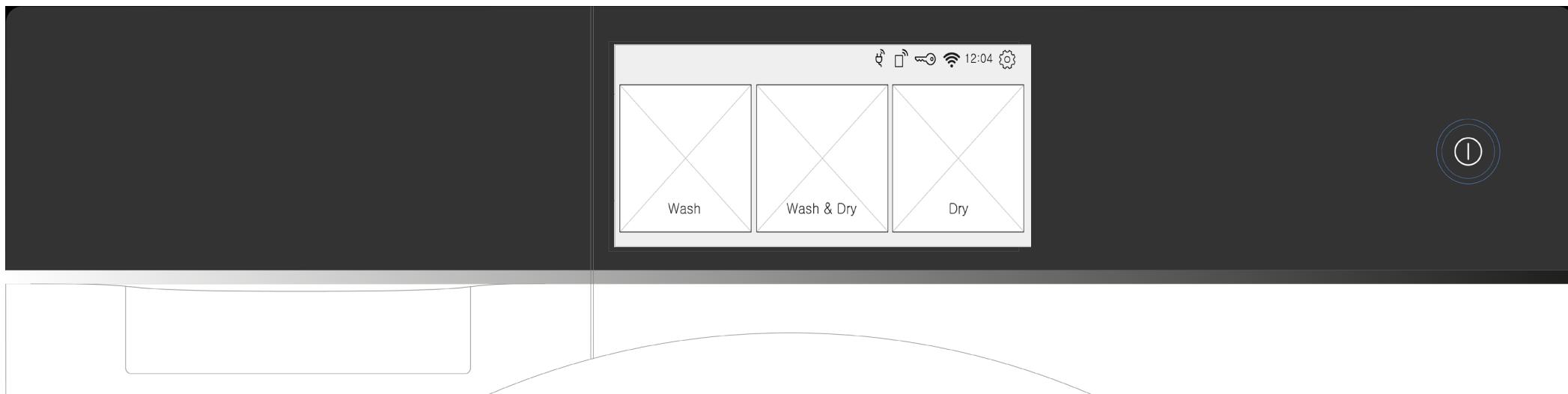
Refer to use case „Wizard“ (not defined yet).

● Washer ● WasherDryer ○ Dryer

Switching the appliance on/off (FA-ID 20/10)

Indicate Ready State (Siemens)

○ not started ○ in work ● ui reviewed ○ ic team reviewed ○ all reviewed



After start up wizard is finished (only for first start), the initial ready screen must be shown:

- Washer: the program selection screen must be shown.
- Washerdryer: The mode selection screen must be shown.

The Power On/Off button LED must be on.

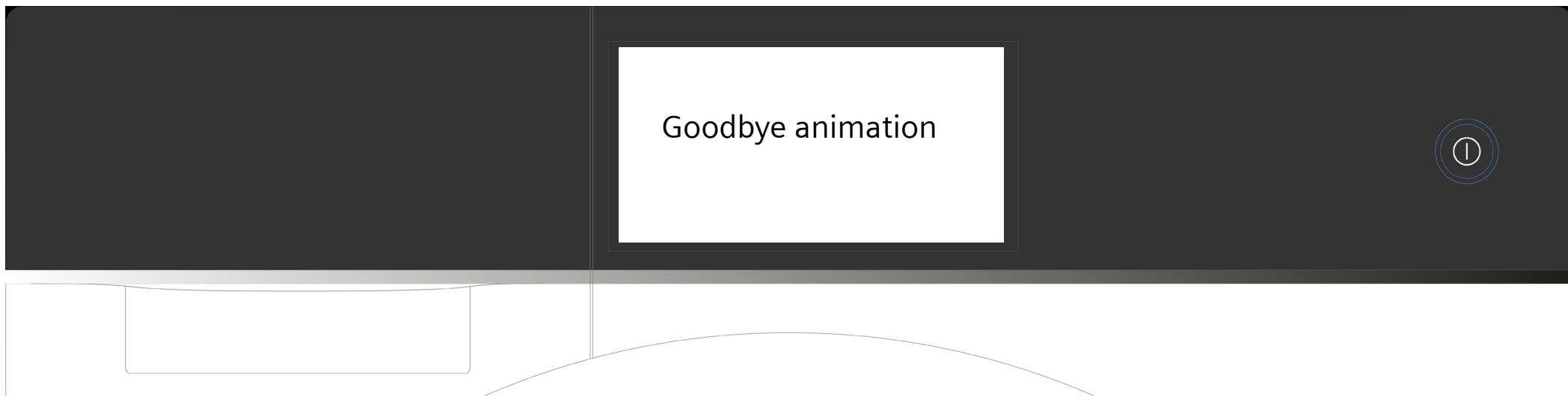
Activating Trigger: Power on/off button is actuated for **650ms** to switch off the appliance.

Washer WasherDryer Dryer

Switching the appliance on/off (FA-ID 20/10)

Indicate goodbye (Siemens)

not started in work ui reviewed ic team reviewed all reviewed

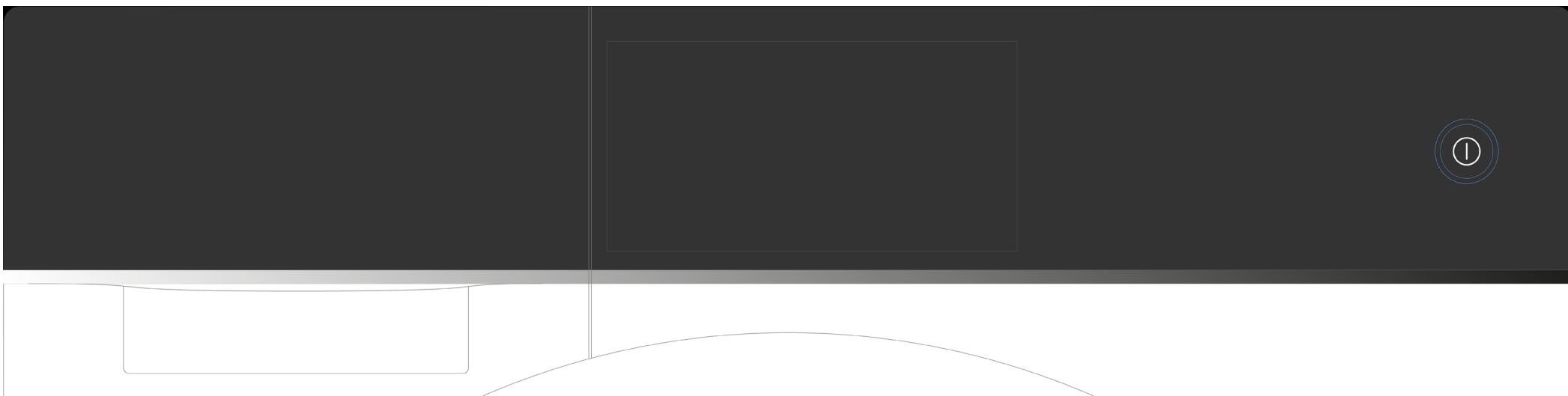


● Washer ● WasherDryer ○ Dryer

Switching the appliance on/off (FA-ID 20/10)

Appliance off (Siemens)

○ not started ○ in work ● ui reviewed ○ ic team reviewed ○ all reviewed



The appliance is switched off.



Switching the appliance on/off (FA-ID 20/10)

Initial state: Appliance off (Bosch)

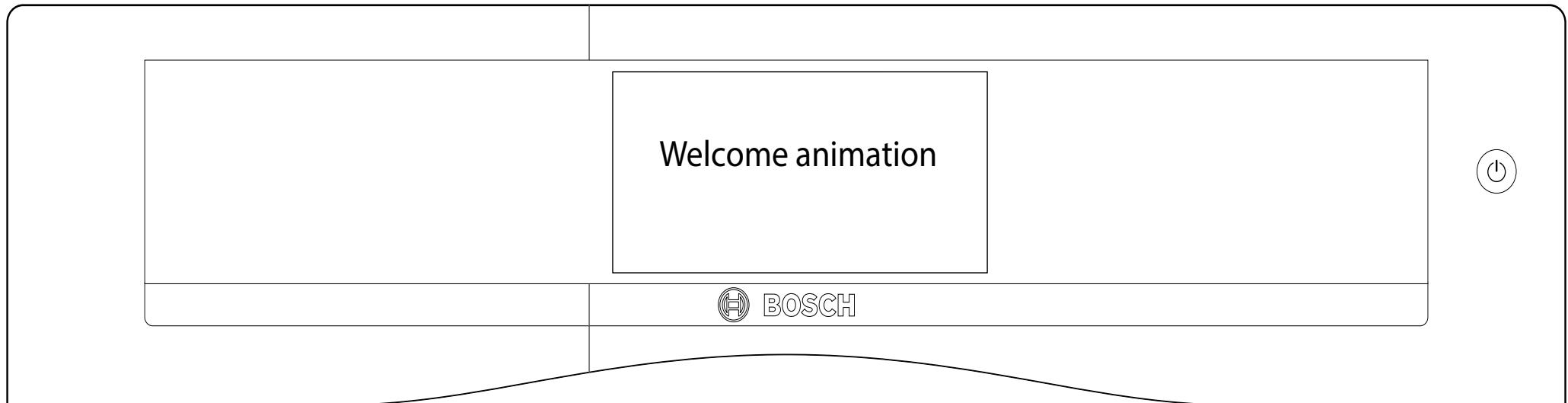
not started in work ui reviewed ic team reviewed all reviewed

Activating Trigger: Power on/off button is actuated for **250ms** to switch on the appliance.
To avoid mis-operation (referred to f12 focus touch on/off button).

Washer WasherDryer Dryer

Switching the appliance on/off (FA-ID 20/10)

Indicate Start up (Bosch)

 not started in work ui reviewed ic team reviewed all reviewed

Cold start: Indicate boot

The Power On/Off button LED must be flashing with flash rate 3 (1s on/1s off).

The indication „Welcome animation“ must be performed.

Warm start: Indicate Start up

The Power On/Off button LED must be on.

The indication „Welcome animation“ must be performed.

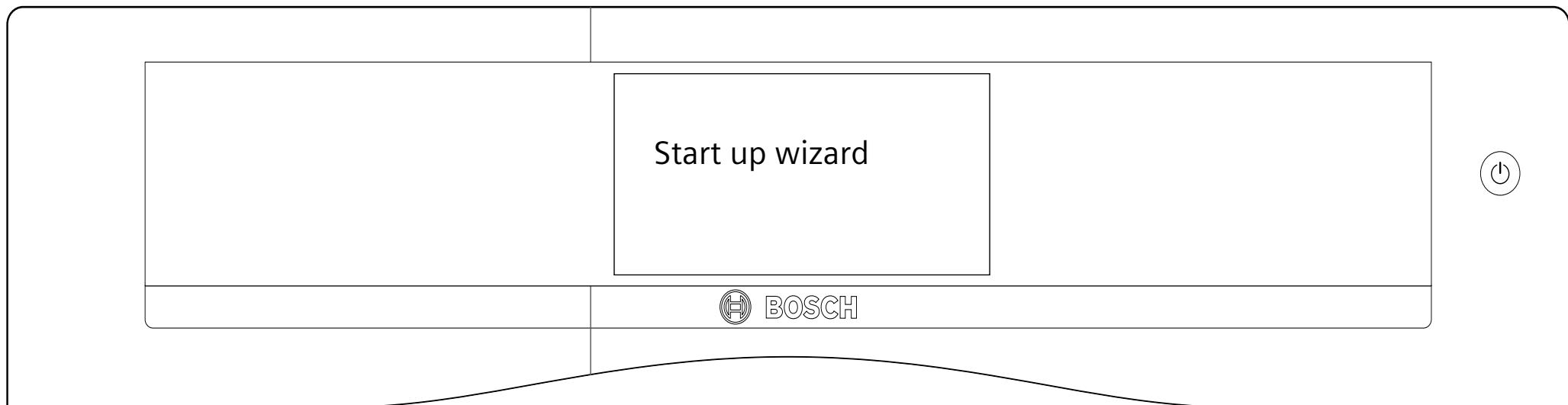
The „Welcome indication“ must be dynamic shown according to the appliance starting up duration for cold start and warm start.

Washer WasherDryer Dryer

Switching the appliance on/off (FA-ID 20/10)

Indicate wizard - only for first start (Bosch)

not started in work ui reviewed ic team reviewed all reviewed



The start up wizard must be shown.

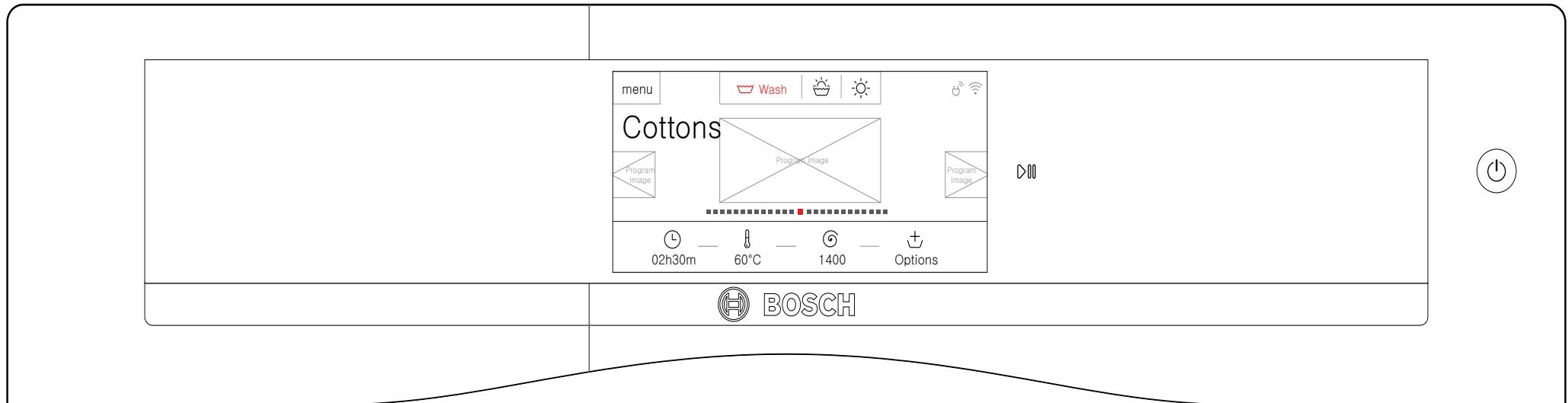
Refer to use case „Wizard“ (not defined yet).

Washer WasherDryer Dryer

Switching the appliance on/off (FA-ID 20/10)

Indicate Ready State (Bosch)

not started in work ui reviewed ic team reviewed all reviewed



The initial ready screen must be shown:

- Washer dryer: The program selection screen of default mode (wash mode) must be shown.
- Washer: The program selection screen must be shown.

The Power On/Off button LED must be on.

The Start/Pause button LED must be flashing with flash rate 3 (1s on/1s off).

Bosch: program sorting is missing in program selection screen?

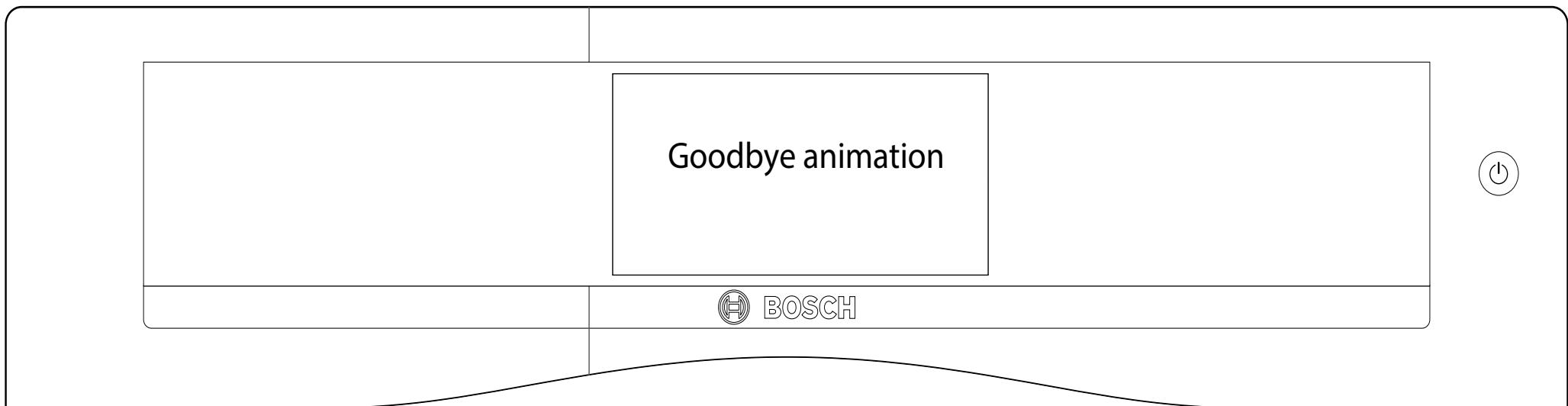
Activating Trigger: Power on/off button is actuated for **650ms** to switch off the appliance.

Washer WasherDryer Dryer

Switching the appliance on/off (FA-ID 20/10)

Indicate goodbye (Bosch)

not started in work ui reviewed ic team reviewed all reviewed

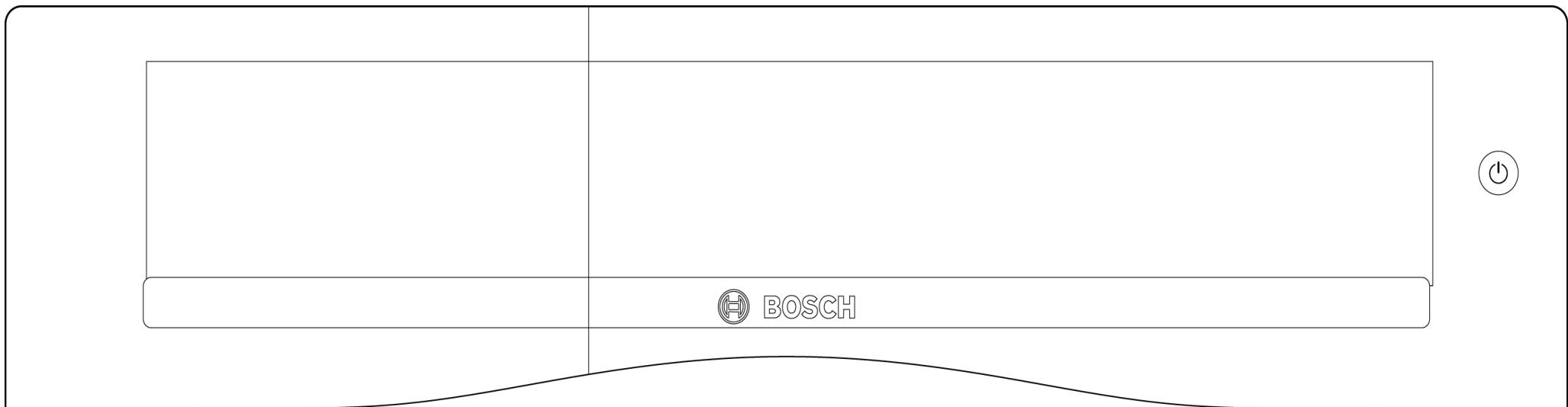


Washer WasherDryer Dryer

Switching the appliance on/off (FA-ID 20/10)

Appliance off (Bosch)

not started in work ui reviewed ic team reviewed all reviewed



The appliance is switched off.

Switching the appliance on/off (FA-ID 20/10)

Needed design

- Cold start: welcome animation during booting. (Bosch/Siemens)
- Warm start: welcome animation during start up. (If cold start and warm start will use the same welcome animation, then just one proposal is needed.) (Bosch/Siemens)
- Switching off: Goodbye animation. (Bosch/Siemens)

Selecting program type (FA-ID 130)

 not started

 in work

 ui reviewed

 ic team reviewed

 all reviewed

Short Description

In washer-dryers, the user can select between three different modes: wash, dry, wash and dry.

Wash mode: Programs selected in this mode are pure wash programs.

Dry mode: Programs offered in this mode are solo dry programs.

Wash and dry: Programs in this mode combine the complete washing process with a subsequent drying phase.

Before selecting a program, the user has to select the desired mode.

Siemens: 1) Mode selection screen: user has to select a mode 2) Program selection screen: user has to select a program --> mode selection is always entry point and hierarchically above program selection.

Bosch: 1) Program selection screen: user has to select a mode within the program selection screen 2) Program selection screen offers all programs available in the current mode: user can select a program on the same program selection screen.

Technical Details

A mode can be selected when the appliance is in the operation and display state „Ready“.

Remarks: The App does not support switching modes during a running program. D25-OT does not support this neither, D25-MT does.

From marketing point of view, this is a rare use case (Sarah Dennig):

- „users seem to separate their laundry load by „dryable“ and „not dryable“

- „other users wash a load of laundry and take out delicate pieces of the laundry before starting a solo dry cycle“

Use Context

1) The user puts a load of Cotton into his appliance. The wash mode is active by default (Bosch). As the user will have to leave his home for the next hours, he decides to select the Wash and dry mode, so that his laundry is washed and dried when he comes back home.

2) The user puts a load of mixed textiles into his appliance. He stays with the wash mode, because he wants to put out some delicate textiles after washing and before drying it.

3) The user has just finished washing his load of mixed laundry. He puts out some delicate pieces of laundry and selects the Dry only mode to dry the rest of his mixed load.

Remarks

A mode selection will be also available for the dryer. Corresponding wireframes for the dryer use case will be added later in the project phase.

Washer WasherDryer Dryer

Selecting program type (FA-ID 130)

Mode selection screen - (Siemens)

 not started in work ui reviewed ic team reviewed all reviewed

- The mode selection screen is the default screen after switch on.
- The user has to select a mode before being able to select a program.

Washer WasherDryer Dryer

Selecting program type (FA-ID 130)

Mode selection - Overview wash programs (Siemens)

not started in work ui reviewed ic team reviewed all reviewed



- The appliance switches to the overview screen of all programs that allow washing.
- No program is preselected (only tap on a program selects a program).
- The mode currently selected is indicated in the top center part of the screen.
- If the user wants to change the mode for a program, he has to go back to the mode selection screen and re-enter the program selection via the newly selected mode.

Washer WasherDryer Dryer

Selecting program type (FA-ID 130)

Mode selection screen - (Siemens)

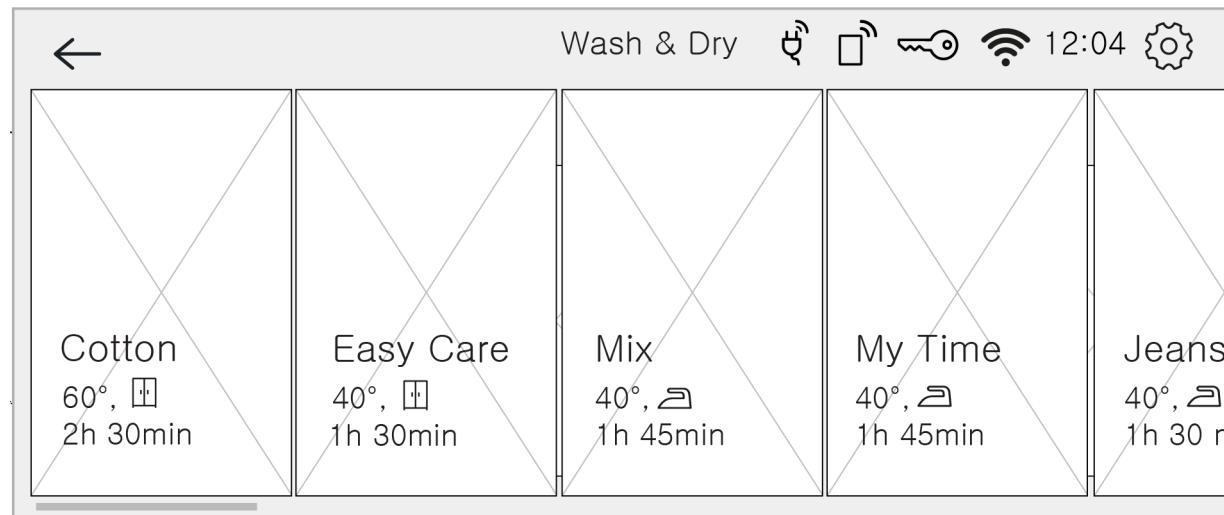
 not started in work ui reviewed ic team reviewed all reviewed

Washer WasherDryer Dryer

Selecting program type (FA-ID 130)

Mode selection - Overview wash and dry programs (Siemens)

not started in work ui reviewed ic team reviewed all reviewed



- The appliance switches to the overview screen of all programs that allow washing with subsequent drying.

Washer WasherDryer Dryer

Selecting program type (FA-ID 130)

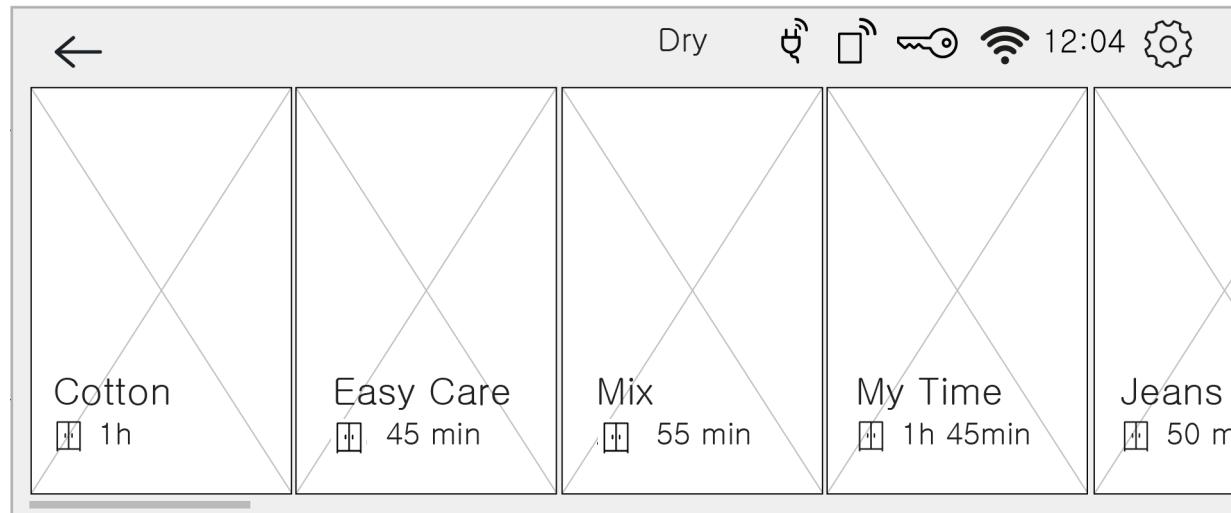
Mode selection screen - (Siemens)

 not started in work ui reviewed ic team reviewed all reviewed

Washer WasherDryer Dryer

Selecting program type (FA-ID 130)

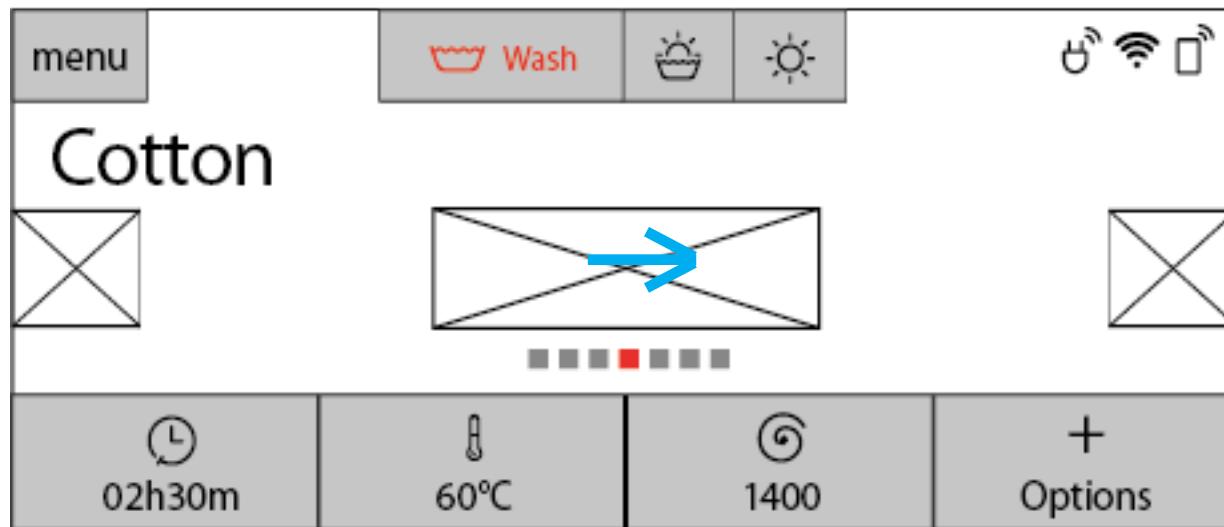
Mode selection - Overview dry programs (Siemens)

 not started in work ui reviewed ic team reviewed all reviewed

- The appliance switches to the overview screen of all programs that allow solo drying.

Selecting program type (FA-ID 130)

Mode selection - Program selection screen - wash programs (Bosch)

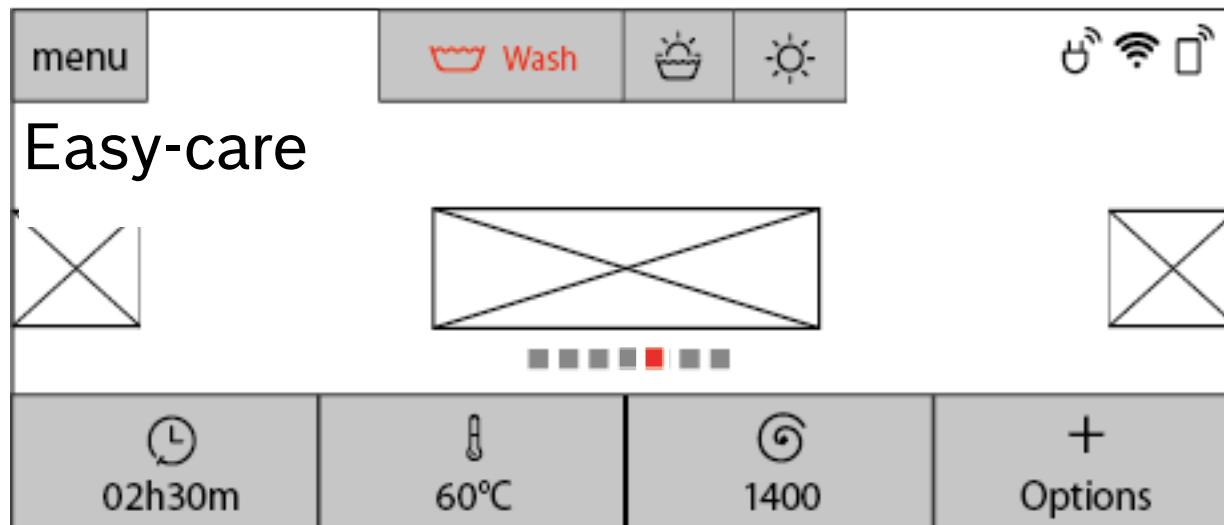
 not started in work ui reviewed ic team reviewed all reviewed


- The program selection screen is the default screen after switch on
- The user must be guided to first select the desired mode and then select a program (mode selection is hierarchically above program selection).
- The mode selection tabs in the upper part of the screen must be presented in 2 states: selected (red) and selectable (black).
Remark: these colors only apply to the wireframes. In the real appliance, they will be adapted according to the black background.
- The appliance shows the overview screen of all programs that are allowed in the current mode (e.g. washing like shown in this wireframe).
- Modes can be selected in Ready state without leaving the program selection screen, that means the subsequent drying can be added to the "Wash" mode by tapping on the "Wash & Dry" tab.

Washer WasherDryer Dryer

Selecting program type (FA-ID 130)

Mode selection - Program selection screen - wash programs (Bosch)

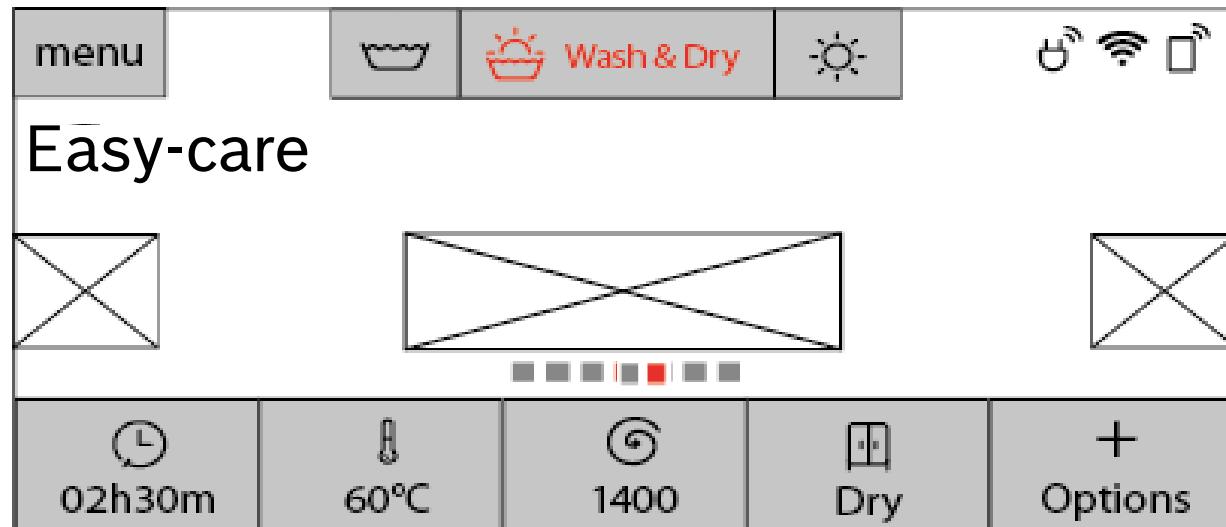
 not started in work ui reviewed ic team reviewed all reviewed

Washer WasherDryer Dryer

Selecting program type (FA-ID 130)

Mode selection - Program selection screen - washdry programs (Bosch)

not started in work ui reviewed ic team reviewed all reviewed

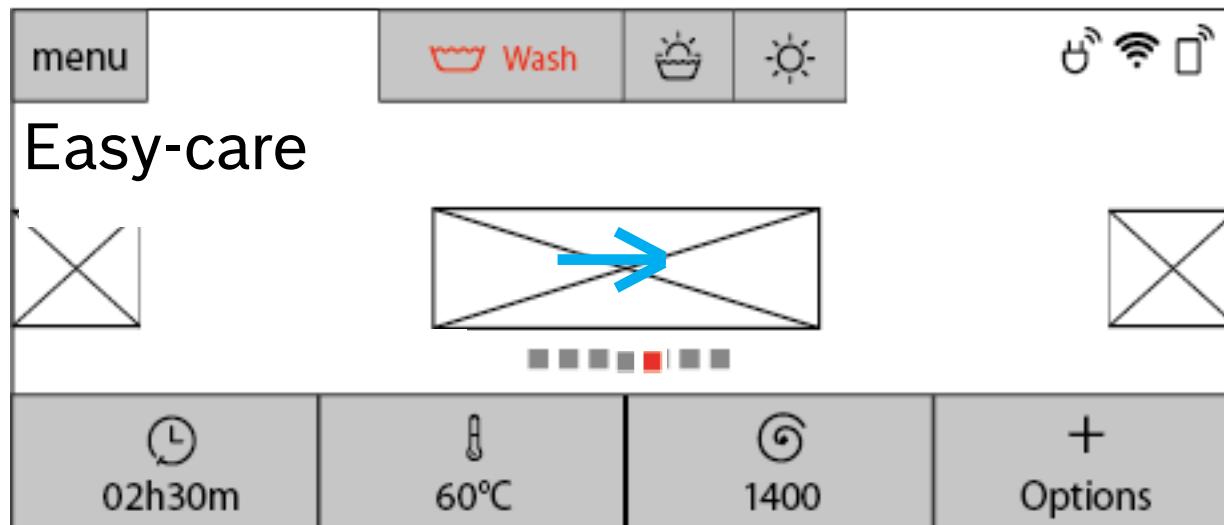


- If a mode is changed, then the program selection as well as the parameter and option selection are kept if the program and parameter/option selection is allowed in the new mode (no fall back on default values).

Washer WasherDryer Dryer

Selecting program type (FA-ID 130)

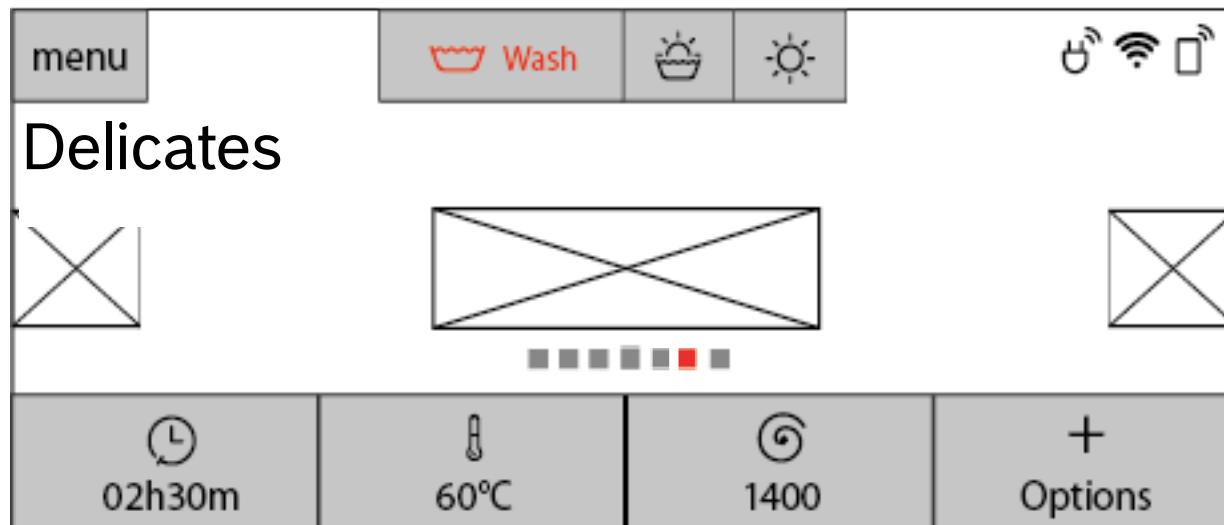
Mode selection - Program selection screen - wash programs (Bosch)

 not started in work ui reviewed ic team reviewed all reviewed

Washer WasherDryer Dryer

Selecting program type (FA-ID 130)

Mode selection - Program selection screen - wash programs (Bosch)

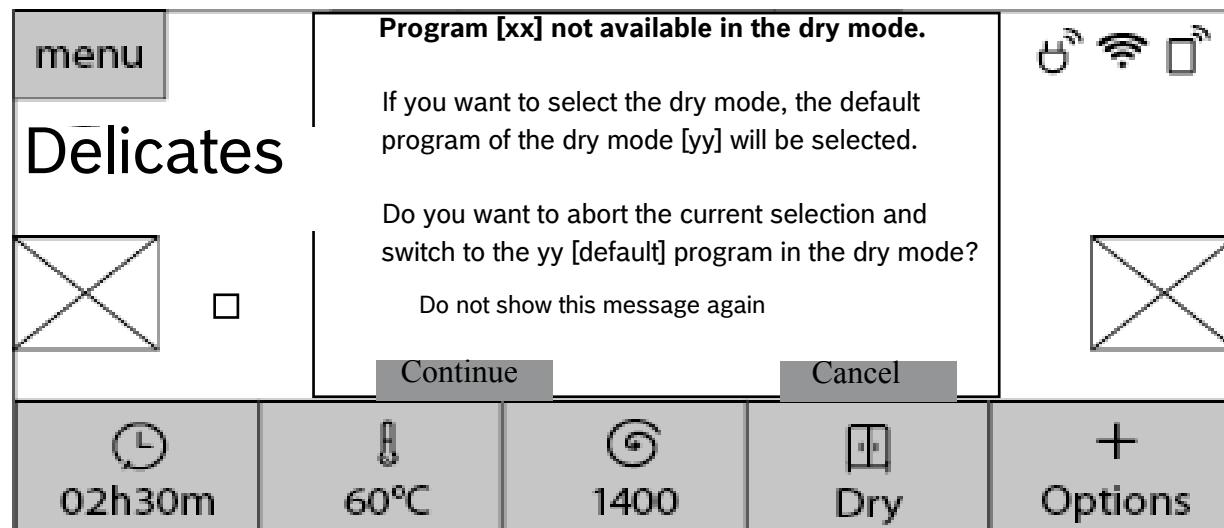
 not started in work ui reviewed ic team reviewed all reviewed

Washer WasherDryer Dryer

Selecting program type (FA-ID 130)

Mode selection - Program selection screen - washdry programs (Bosch)

not started in work ui reviewed ic team reviewed all reviewed



- If a mode is selected which is not allowed for the currently selected program, then a confirmation message must inform the user that the current program and the selected settings are aborted and that the default program of the new mode will be selected.
- The user must be able to select if he wants this message to show up again or not (e.g. via checkbox).

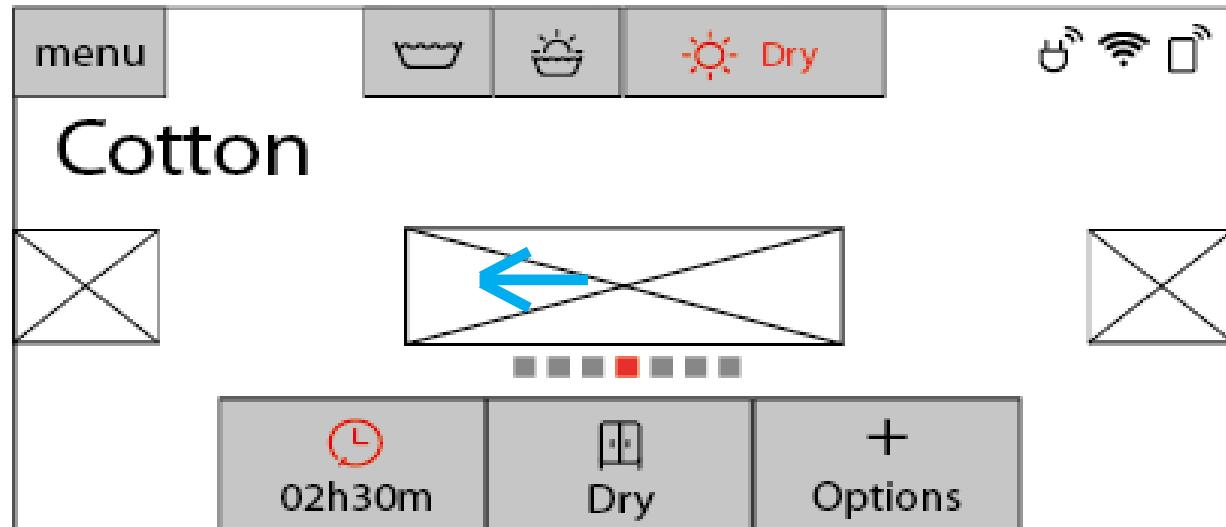
If the user selects „cancel“, then the current program with the current settings will be recovered in the old mode.

Washer WasherDryer Dryer

Selecting program type (FA-ID 130)

Mode selection - Program selection screen - washdry programs (Bosch)

not started in work ui reviewed ic team reviewed all reviewed

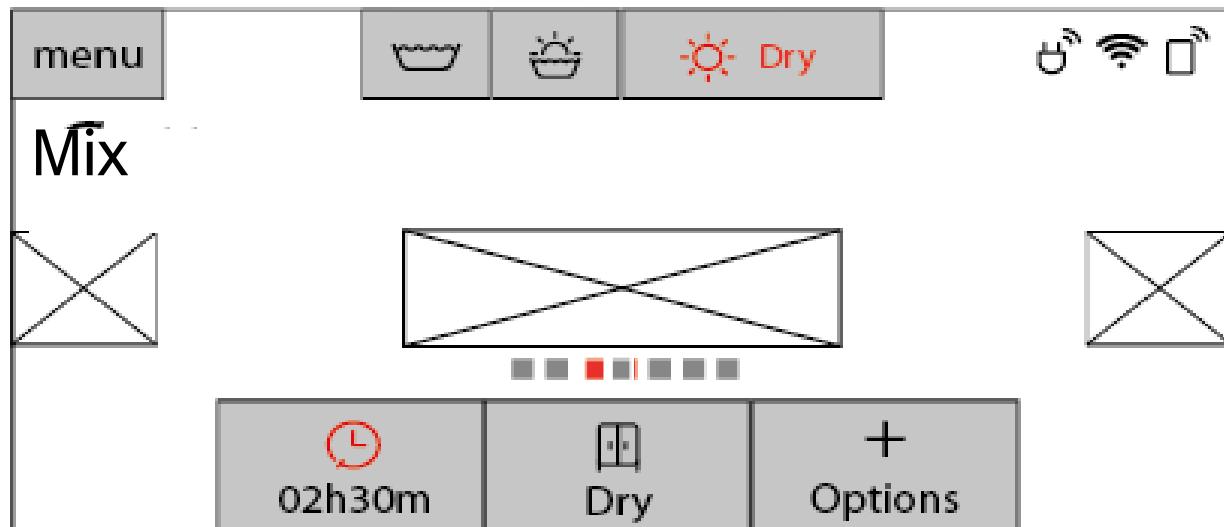


- The default program must be selected in the dry mode.

Washer WasherDryer Dryer

Selecting program type (FA-ID 130)

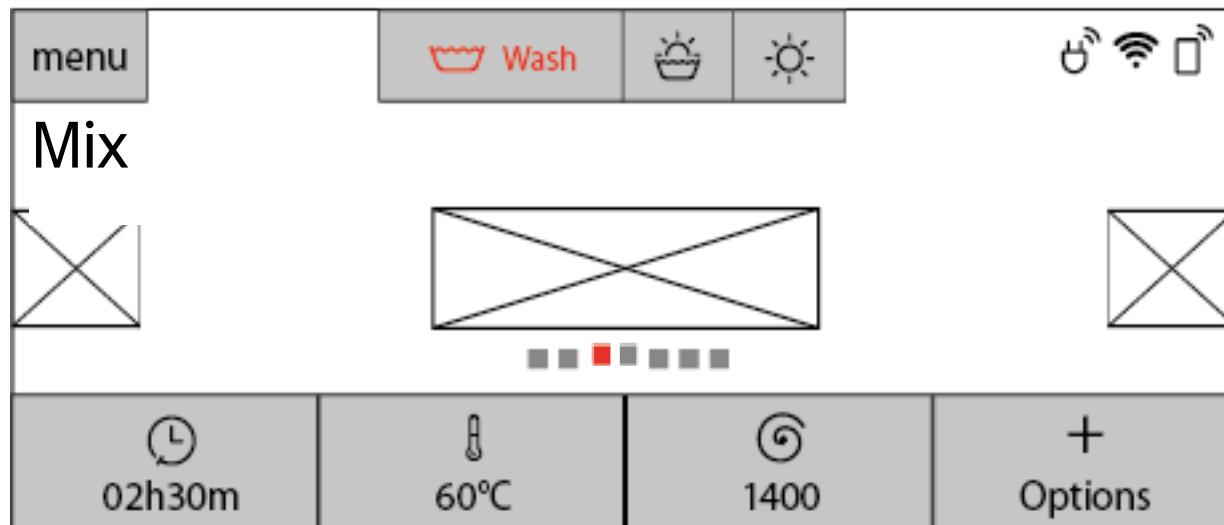
Mode selection - Program selection screen - washdry programs (Bosch)

 not started in work ui reviewed ic team reviewed all reviewed

Washer WasherDryer Dryer

Selecting program type (FA-ID 130)

Mode selection - Program selection screen - wash programs (Bosch)

 not started in work ui reviewed ic team reviewed all reviewed

Selecting a program (FA-ID 500)

 not started

 in work

 ui reviewed

 ic team reviewed

 all reviewed

Short Description

The user can select a program:

1) from the **Main program list** (carousel). This program list contains the most important programs. It can be adapted to the personal needs of the specific user.

2) from the **Program library**. This library contains all programs.

After switching on the appliance, the Main program list screen will be displayed.

Selectable values: List of programs defined by process technique, Max number programs: **TBC**. 20 per cluster(wash, wash&dry, dry) for D25 OT.

Default value: The CottonEco program will automatically be preselected after switch on. (BO)
NO program is preselected. (SE)

Technical Details

Use Context

Remarks

1) The user sorted his laundry, and wants to select a program suitable for the textile. E.g. He selects the „Cotton“ program for his cotton laundries from the main program list

2) The user puts some sports wear from his daily running session into the appliance. So as nearly every day he chooses the same program from the main program list. (SE)

3) The user wants to wash some delicates. This kind of laundry he doesn't wash frequently. Therefore he selects a suitable program from the program library.

The program Cotton Eco (and for WD and D: with the drying target cupboard dry) must be activated by default.

The standard cotton program must be marked with the arrow symbol.
(need to be updated according to new EN18 regulation)

In TFT or Homeconnect appliances, not all programs are visible at first glance. The user can later change the factory default setting in a way that the standard cotton program is not visible at first glance after switching on.

Washer WasherDryer Dryer

Selecting a program (FA-ID 500)

Mode selection screen - before program selection - (Siemens)

not started in work ui reviewed ic team reviewed all reviewed



Washer WasherDryer Dryer

Selecting a program (FA-ID 500)

Program selection screen - swiping through - (Siemens)

not started in work ui reviewed ic team reviewed all reviewed



Slide to next or previous program.

UI requirements:

The speed of the animation must correspond to the speed of the user gesture (UI 83).

There must be clear page orientation in the program list.

Washer WasherDryer Dryer

Selecting a program (FA-ID 500)

Program selection screen - tap to select a program - (Siemens)

not started in work ui reviewed ic team reviewed all reviewed



UI requirements:

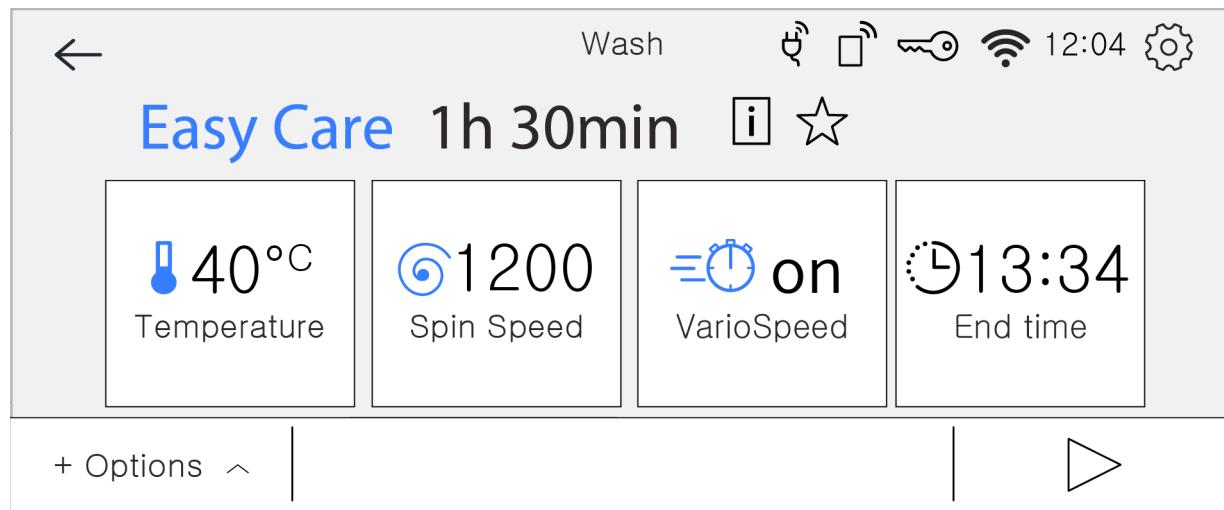
Default values must be available for the user as a guideline. The user must be able to individually modify these values. (UI 43)

Washer WasherDryer Dryer

Selecting a program (FA-ID 500)

Configure primary parameter screen - a new program is selected - (Siemens)

not started in work ui reviewed ic team reviewed all reviewed



UI requirements:

The default settings of the new selected program must be updated in less than 100ms (UI 4).

The background of the new selected program must be updated in less than 100ms (UI 4).

Default values must be available for the user as a guideline. The user must be able to individually modify these values. (UI 43)

If the user taps on the „Back“ arrow to go back and afterwards selects the same program again, the selected settings for the programs will be kept. But if he selects a different program, the default settings for this specific program will be selected.

Washer WasherDryer Dryer

Selecting a program (FA-ID 500)

Program selection screen - entry program library - (Siemens)

not started in work ui reviewed ic team reviewed all reviewed



The carousel has no wrap-around. It starts at the first program and it ends at the last element, a picture or picture combination which shows explicit that here is the entry to „Program library“, the program library.

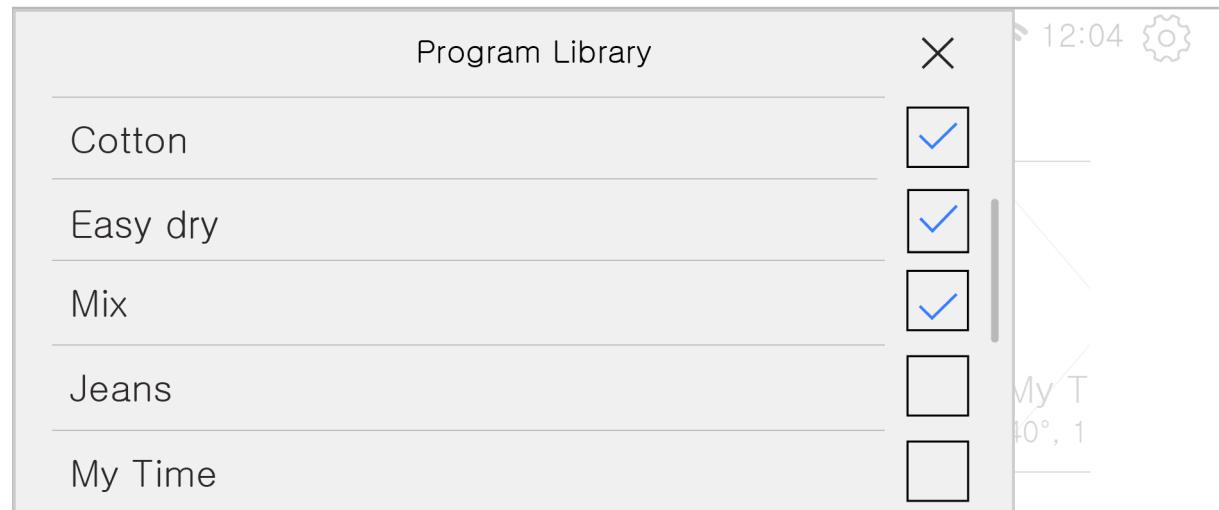
Tap on the element „Program library“ will guide the user to the program library.

How many programs (items) are shown max. at the carousel is to be discussed. UI recommends max. 7-8 programs be displayed by default.

Washer WasherDryer Dryer

Selecting a program (FA-ID 500)

Program library screen - (Siemens)

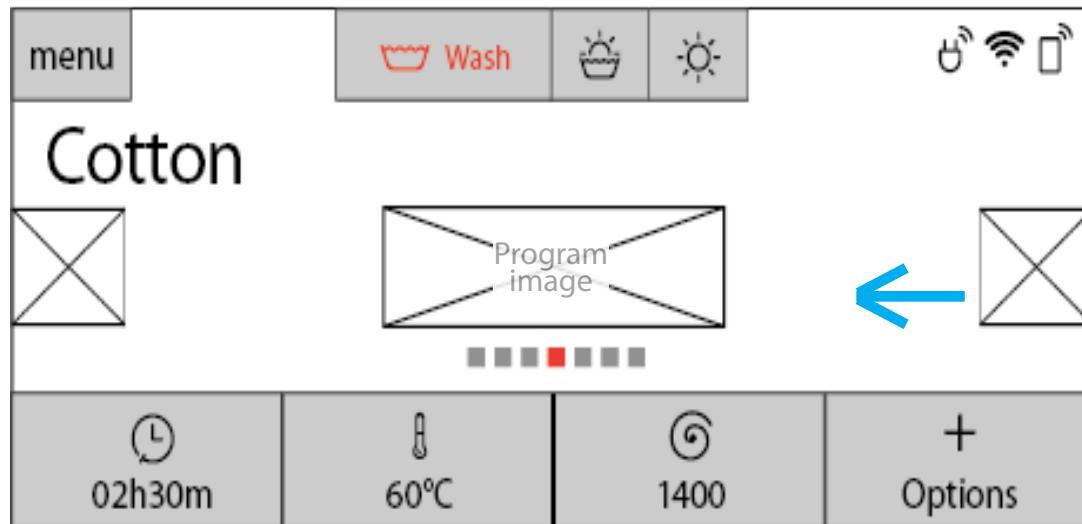
 not started in work ui reviewed ic team reviewed all reviewed

The Program library contains all programs. The user can choose which programs are shown in the Main program list.

Detailed description for adaption of program library can be found in the use case „Individualize program list“

Selecting a program (FA-ID 500)

Program selection screen - after switching on (initial ready state) - (Bosch)

 not started in work ui reviewed ic team reviewed all reviewed


For washer dryer:

Selecting a wash and dry program, the user must select the „Wash Dry“ mode at first (refer to use case „selecting program type“), and then select the program under that cluster.

Selecting a solo dry program, the user must select the „Dry“ mode at first (refer to use case „selecting program type“), and then select the program under that cluster.

The program currently displayed in the middle of the screen is automatically selected (centered position). When you slide to the next program, the next program will be automatically selected. Do not need to tap to select again.

The parameters with the corresponding values are displayed in the lower bar.

Per default only the main programs (7) are directly visible in the carousel. All other programs are bundled in „more programs“ which can be expanded. More programs can be reached by swiping left or right on 4th position

UI requirements:

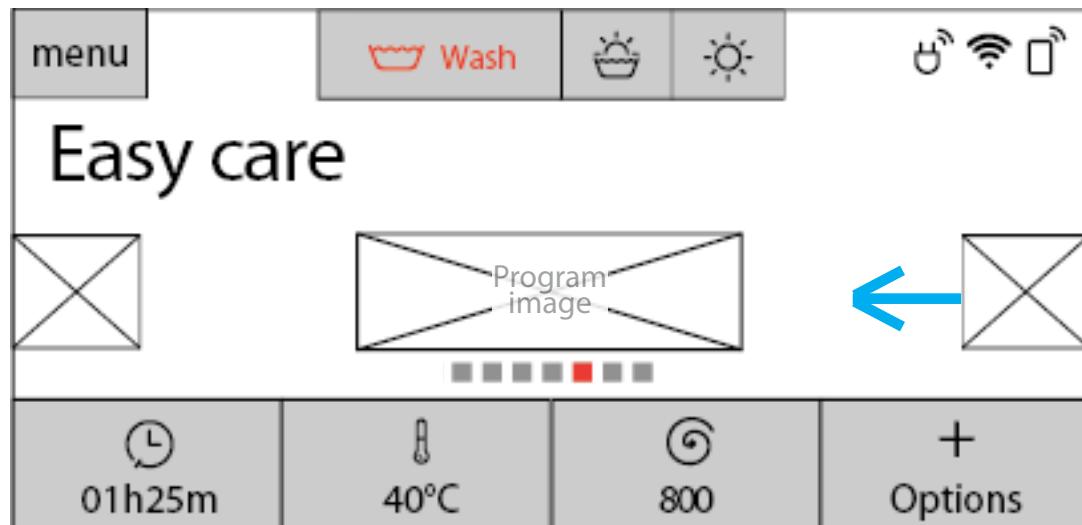
The speed of the animation must correspond to the speed of the user gesture (UI 83).

Washer WasherDryer Dryer

Selecting a program (FA-ID 500)

Program selection screen - a new program is selected - (Bosch)

not started in work ui reviewed ic team reviewed all reviewed



UI requirements:

The default settings of the new selected program must be updated in less than 100ms (UI 4).

The background of the new selected program must be updated in less than 100ms (UI 4).

Default values must be available for the user as a guideline. The user must be able to individually modify these values. (UI 43)

Washer WasherDryer Dryer

Selecting a program (FA-ID 500)

Program selection screen - entry more program - (Bosch)

not started in work ui reviewed ic team reviewed all reviewed



The main programs are directly visible in carousel. All other programs are bundled in 'more programs' which can be expanded. More programs can be reached by swiping left or right on 4th position.

To expand 'more programs' the user can:

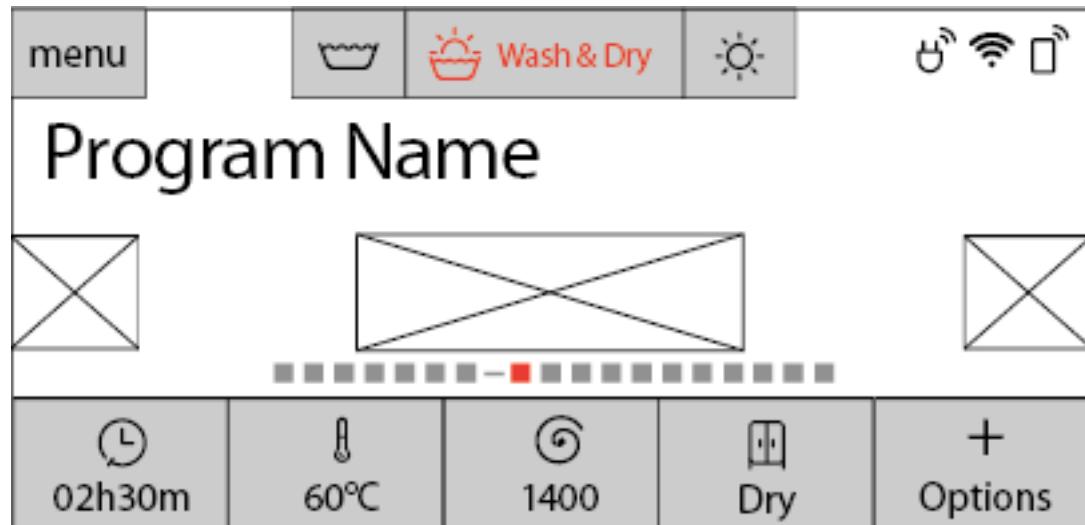
- A - tap on 'more programs' element in Carousel (depending on final visualisation)
- B - tap on 'View more programs' button

Washer WasherDryer Dryer

Selecting a program (FA-ID 500)

More programs screen - (Bosch)

not started in work ui reviewed ic team reviewed all reviewed



The expanded carousel contains all programs.

Open Question:

How can i go back to not expanded caroussel?

Individualize program list

 not started

 in work

 ui reviewed

 ic team reviewed

 all reviewed

Short Description

The user has two possibilities to individualize his main program list:

- User can decide, which programs are displayed within main program list (direct accessible because regularly needed) and which are within a library (secondary access, currently not needed by the user)
- User can decide in which order the programs within the main program list appear.

Technical Details

Use Context

Use Context 1:
 In order to not be overwhelmed by too many program choices and making a more easy selection, the user adjusts his main program selection list. Programs he uses often and regularly he selects to be displayed in the main program list, programs he is not using currently (maybe in future) are still available for him within the program library.

Remarks

Interaction pattern for Sorting the programs manually (e.g. drag & drop) and entering/managing the program library still in discussion.

Use Context 2:

The user chooses very often the programs Cotton, Easy Care and Mix. Seldom but still sometimes, he uses Wool and MyTime. So he is sorting his main program list this way that Cotton, Easy Care and Mix appear in the first 3 positions, followed by Wool and MyTime.

Individualize program list

Program selection screen - Sorting (Siemens)

 not started in work ui reviewed ic team reviewed all reviewed


The number of programs within the main program list is not restricted in general, it can be adapted by the user.

How many programs are shown per default within the main program list needs to be discussed. UI recommends not more than 8 programs (because otherwise the concept of simple and individual program selection will not be understood immediately).

UI requirements:

The speed of the animation must correspond to the speed of the user gesture (UI 83).

There must be clear page orientation in the program list.

Washer WasherDryer Dryer

Individualize program list

Program selection screen - Sorting (Siemens)

 not started in work ui reviewed ic team reviewed all reviewed

Washer WasherDryer Dryer

Individualize program list

Program selection screen - Sorting (Siemens)

 not started in work ui reviewed ic team reviewed all reviewed

Washer WasherDryer Dryer

Individualize program list

Program selection screen - Enter program library (Siemens)

not started in work ui reviewed ic team reviewed all reviewed



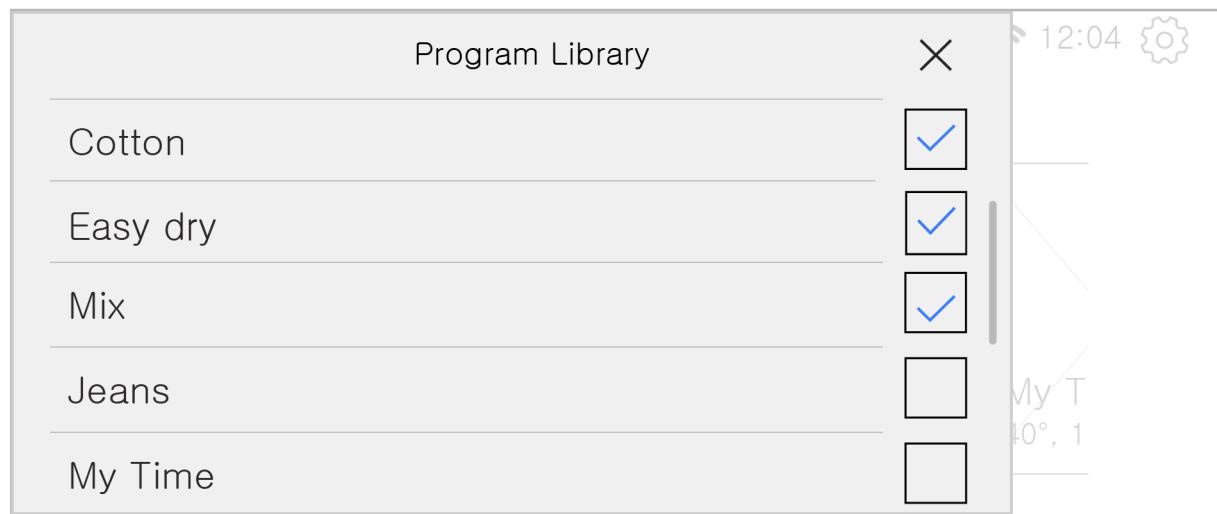
Tap on the element „Program library“ will guide the user to the program library.

Washer WasherDryer Dryer

Individualize program list

Program library screen (Siemens)

not started in work ui reviewed ic team reviewed all reviewed



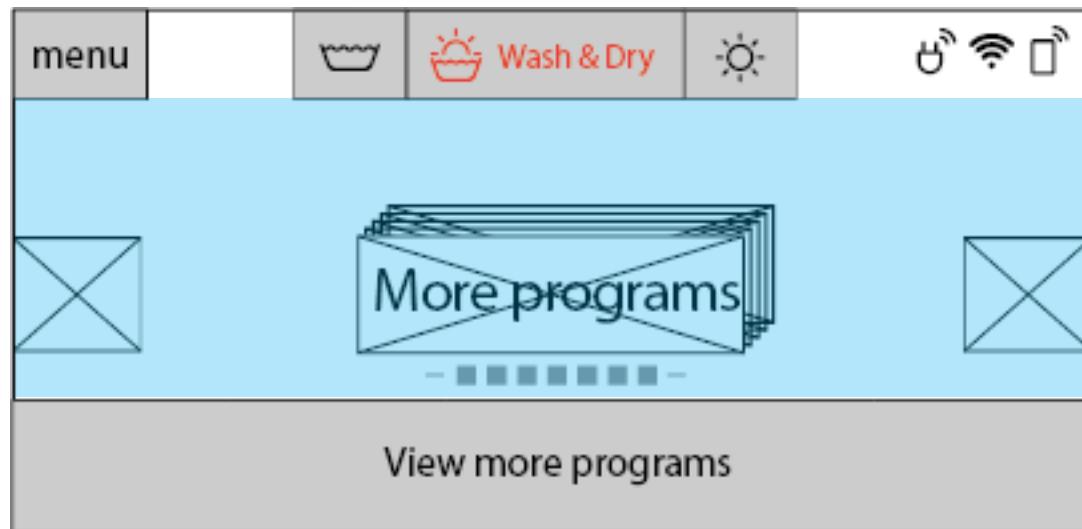
The Program library contains all programs. The user can select those programs which should be indicated in the Main program list.

Washer WasherDryer Dryer

Individualize program list

Program selection screen (Bosch)

not started in work ui reviewed ic team reviewed all reviewed



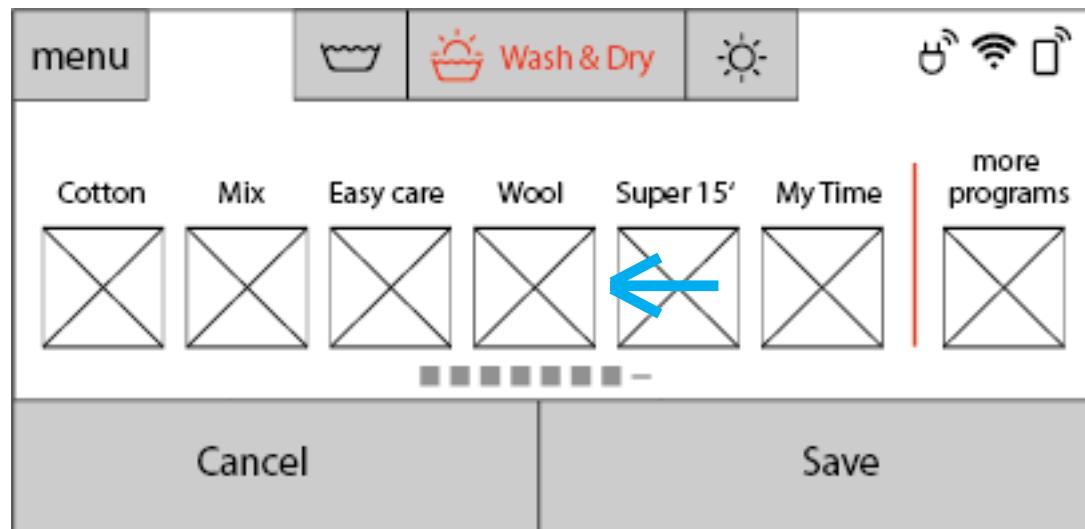
Tap & hold anywhere on whole carousel area opens the sorting mode.

Washer WasherDryer Dryer

Individualize program list

Program sorting screen (Bosch)

not started in work ui reviewed ic team reviewed all reviewed



The border between shown seven elements and which are not shown in the carousel (more programs) must be marked, e.g. a colored line or similar.

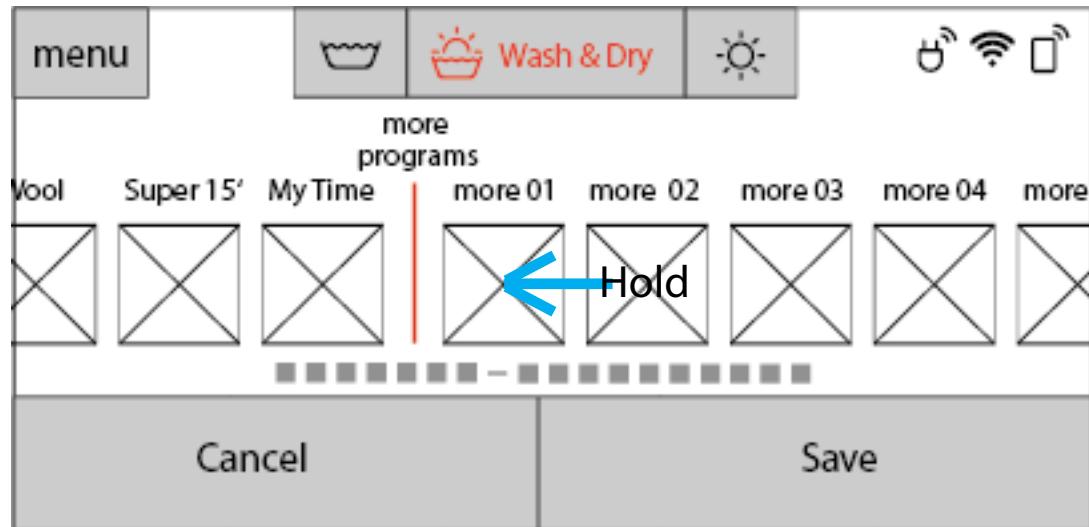
The User can swipe through all the programs.

● Washer ● WasherDryer ○ Dryer

Individualize program list

Program sorting screen (Bosch)

○ not started ○ in work ● ui reviewed ○ ic team reviewed ○ all reviewed



The user can sort all programs by drag and drop.

● Washer ● WasherDryer ○ Dryer

Individualize program list

Program sorting screen (Bosch)

○ not started ○ in work ● ui reviewed ○ ic team reviewed ○ all reviewed



The user can sort all programs by drag and drop.

● Washer ● WasherDryer ○ Dryer

Individualize program list

Program sorting screen (Bosch)

○ not started ○ in work ● ui reviewed ○ ic team reviewed ○ all reviewed



The user can sort all programs by drag and drop.



Individualize program list

Program sorting screen (Bosch)

not started in work ui reviewed ic team reviewed all reviewed



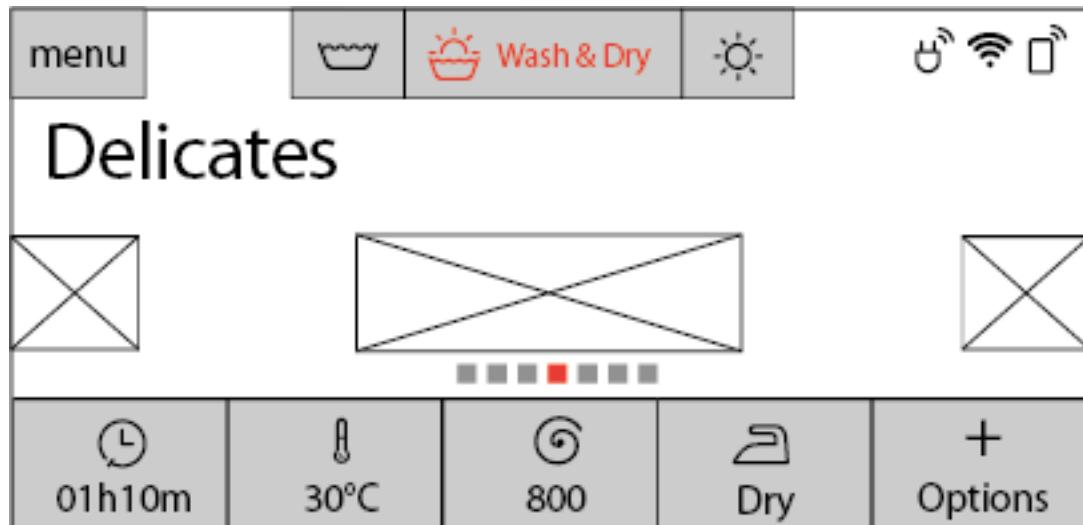
By actuating the button „Cancel“ the user comes back to Program selection screen without saving the changes.

By actuating the button „Save“ the user comes back to Program selection screen with saving the changes.

Washer WasherDryer Dryer

Individualize program list

Program selection screen (Bosch)

 not started in work ui reviewed ic team reviewed all reviewed

Storing a memory program (FA-ID: 510.1)

 not started

 in work

 ui reviewed

 ic team reviewed

 all reviewed

Short Description

Programs and program specific option settings or changes of favorite programs can be saved in the appliance for recalling later.

The user can recall the favorite program he saved easily.

The saved favorite program can also be removed.

Selectable values: saved, unsaved.

Default value: Not saved (Remark: at appliance delivery, the memory program must be empty.)

Technical Details

Current F25 OT:

Var 1: only 1 copy of a program can be stored (current F25 OT)

Current D25 OT:

Var 2: many copies of a program can be stored (D25 OT). The minimum requirement from UI side is that the same program of different modes must be storable (e.g. Cotton wash must not overwrite Cotton wash&dry).

For PADUA:

Many copies of a program with different settings can be stored. (need to be aligned with SW architecture team).

Use Context

1. The user could have the chance to save the same program with different settings as different favorite programs.

2. For Bosch:

The user wants to store his often used programs as favorite programs in a specific place. Similar like the other product experience, the user could always save favorite to a favorite folder. And can always find favorites there.

3. For Siemens:

For user, the favorite program is a kind of self-configured programs, which is still a program, he would like to find his favorite program in the program list, too.

Remarks

For F25-OT „MCS-CR 001532: A favorite with the same name replaces the old favorite“.

For D25-OT there is the ongoing MCS-CR 2980 about the same issue.

We assume that most user try to save 2 exactly identical favorites by mistake and we want to protect the user from this by not saving the same program with same settings again.

Washer WasherDryer Dryer

Storing a memory program (FA-ID: 510.1)

Program selection screen - Siemens

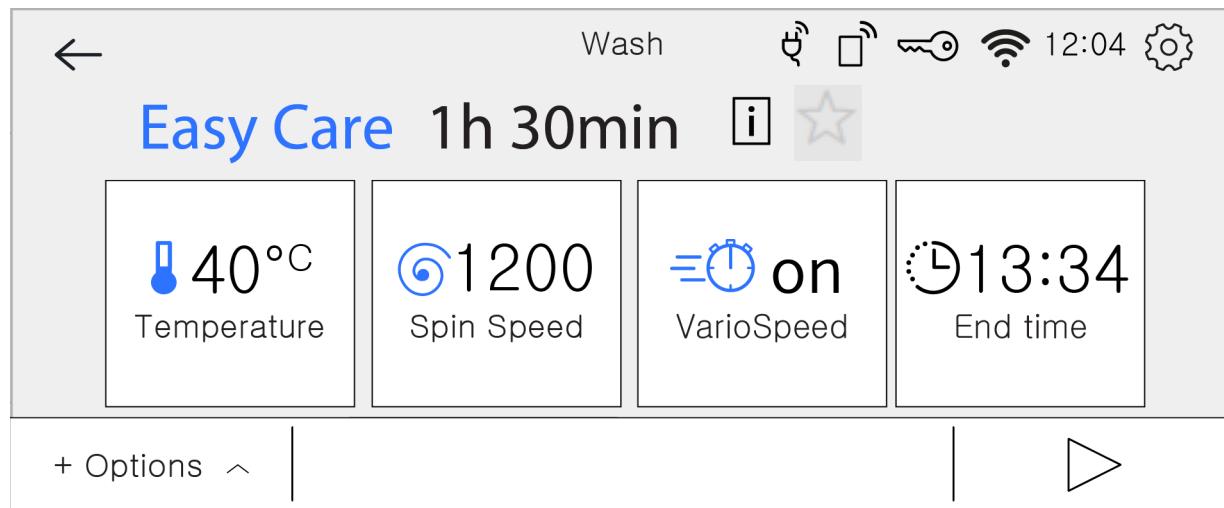
 not started in work ui reviewed ic team reviewed all reviewed

Washer WasherDryer Dryer

Storing a memory program (FA-ID: 510.1)

Configure primary parameter screen: Change some settings - Siemens

not started in work ui reviewed ic team reviewed all reviewed

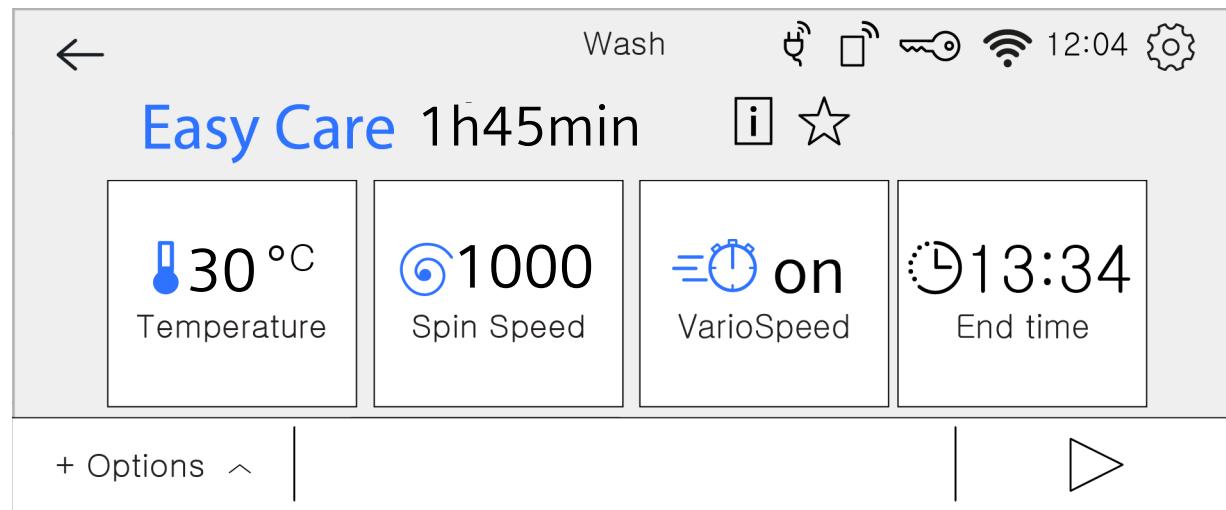


If the user has not changed any settings of a program yet, the favorite button is not selectable.
(Remark: As the favorite program is in the same list with the default setting programs, it makes no sense to keep two same programs in the list.)

Washer WasherDryer Dryer

Storing a memory program (FA-ID: 510.1)

Configure primary parameter screen: parameter changed - Siemens

 not started in work ui reviewed ic team reviewed all reviewed

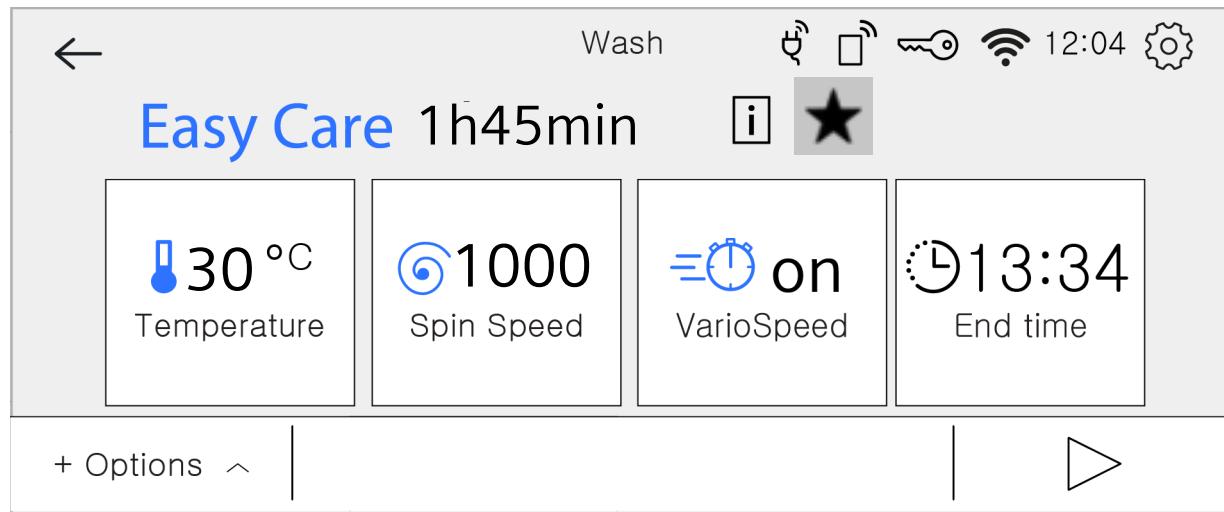
Only if the parameter is changed, save to favorite is possible. The favorite button changes to selectable status.

Washer WasherDryer Dryer

Storing a memory program (FA-ID: 510.1)

Configure primary parameter screen: favorite program saved - Siemens

not started in work ui reviewed ic team reviewed all reviewed



UI requirement:

The favorite button status should be updated to saved status.

Remark:

No message to tell the user that the program is saved as favorite. As the favorite button's status will be updated immediately.

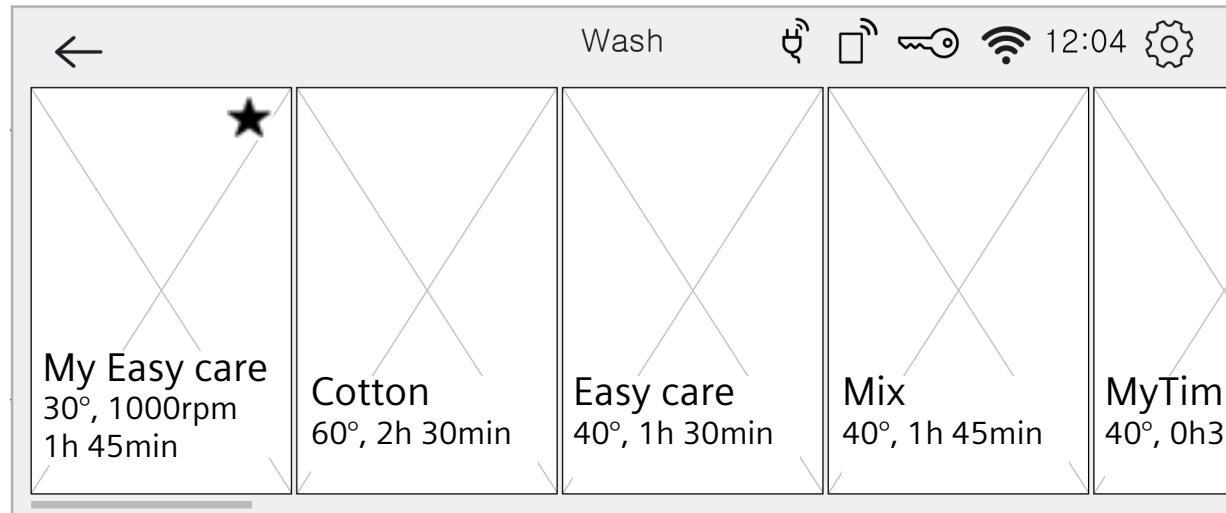
The former concept (F25 OT) has message as the favorite button status is not updated synchronized. And it results in confusion even if we have the message to tell user that the favorite is saved, but the favorite button status is not updated (from F25 OT summative test).



Storing a memory program (FA-ID: 510.1)

Program selection screen: favorite program saved at the beginning of program list - Siemens

- not started
- in work
- ui reviewed
- ic team reviewed
- all reviewed



The new saved favorite program will be visible at the beginning of the whole program list, right after the user saved it.

The favorite programs will only be shown in the main program list, not shown in the program library.

For washer dryer:

The favorite programs from different modes will be saved in the according mode. E.g. favorite wash programs will be saved in the wash program list.

The favorite programs can be sorted just like normal programs.

If you open an already saved favorite, the favorite button will also not be selectable, but the user can change parameters and then set this as a new favorite. The old one will not be overwritten.

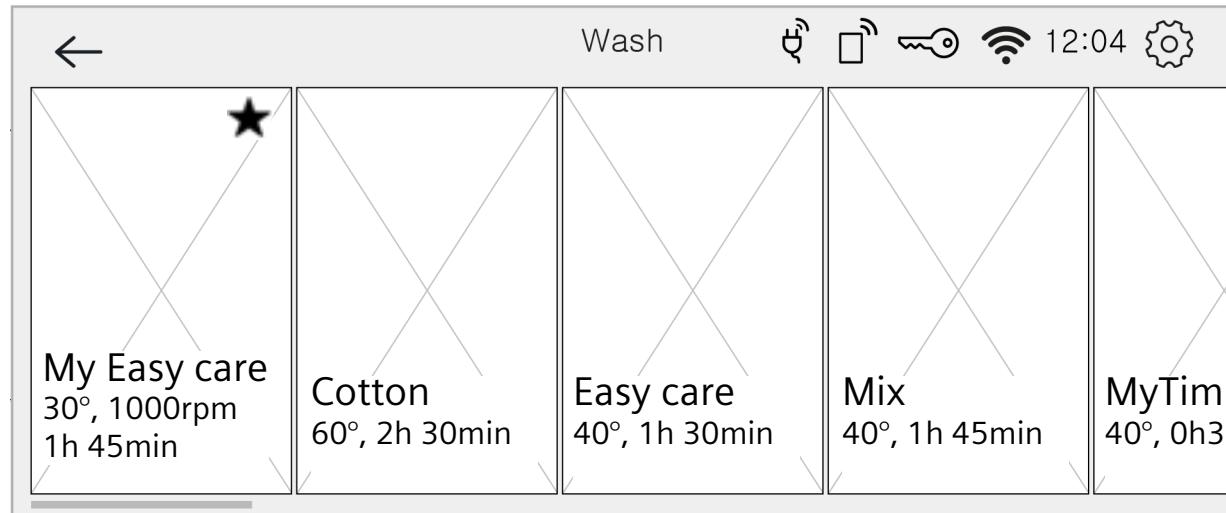
The same program with different option settings could be saved as many copies. **How to differentiate the different copies clearly need to be worked out (e.g. visual design).**

Washer WasherDryer Dryer

Storing a memory program (FA-ID: 510.1)

Program selection screen: favorite program saved at the beginning of program list - Siemens

not started in work ui reviewed ic team reviewed all reviewed



The name of the favorite program can also be renamed from app and reflect on the appliance.
Whether to offer the keyboard to rename program name is still open.

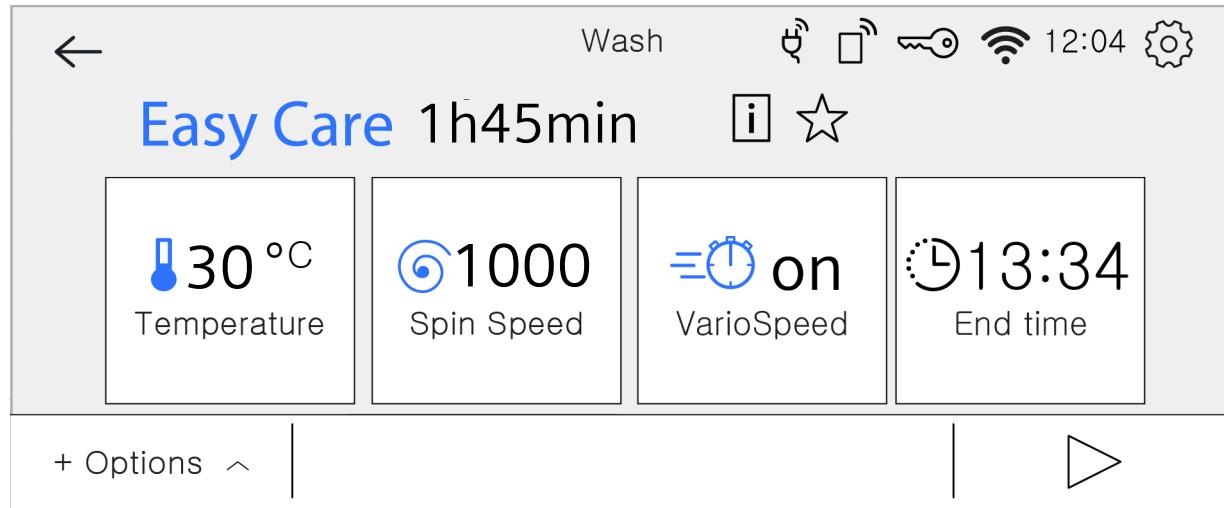
UI requirements:

The favorite program should be clearly indicated as favorite.

Washer WasherDryer Dryer

Storing a memory program (FA-ID: 510.1)

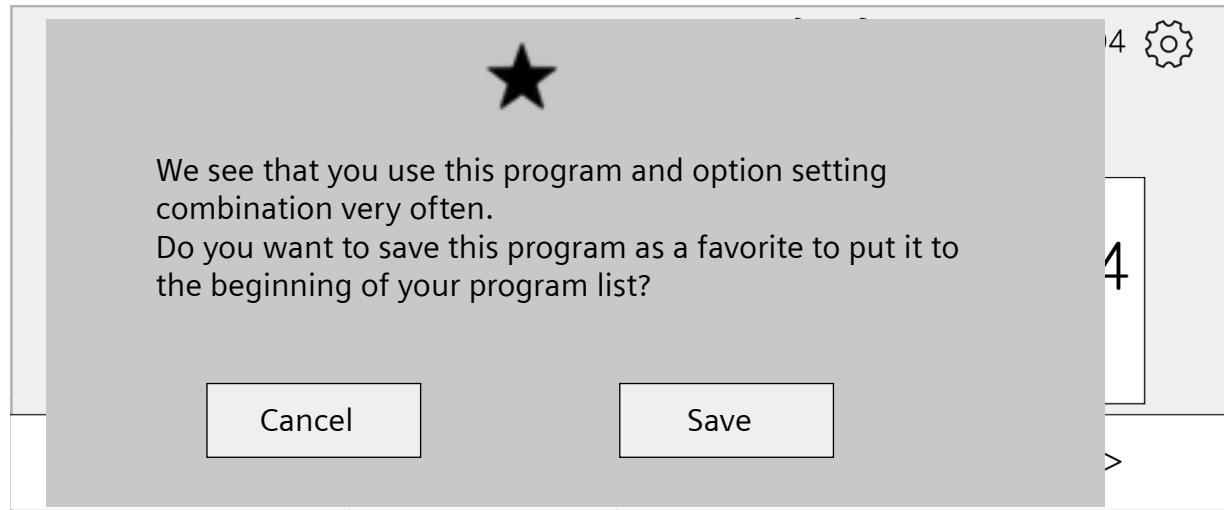
Configure primary parameter screen: Smart recommendation - Siemens

 not started in work ui reviewed ic team reviewed all reviewed

After starting a program with same settings 5 times, when user press the start button to start the program, it will trigger an overlay message to recommend the user to save it as a favorite program.

Storing a memory program (FA-ID: 510.1)

Message screen: Recommendation message - Siemens

 not started in work ui reviewed ic team reviewed all reviewed

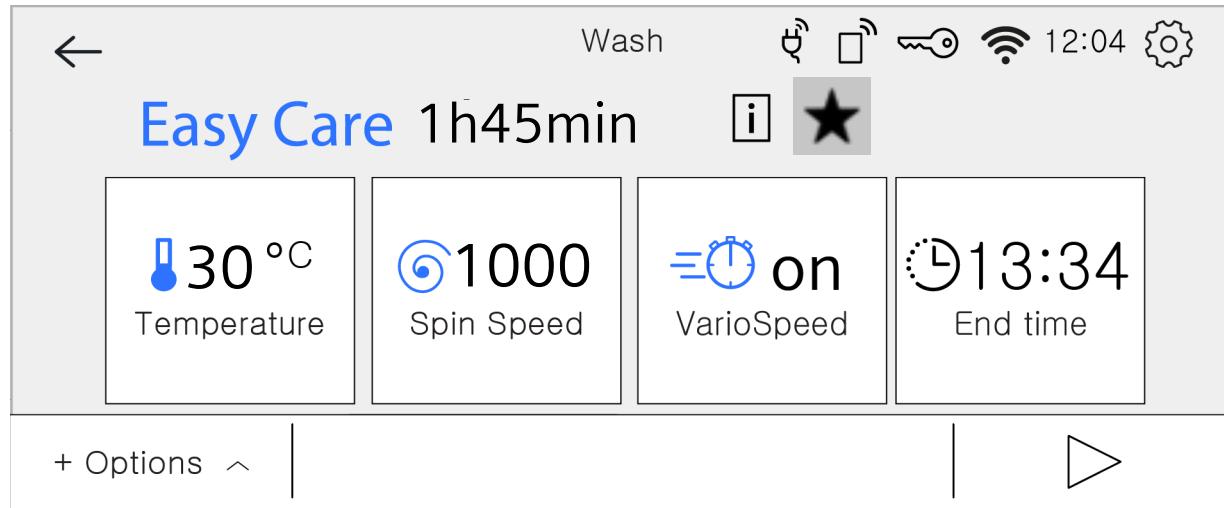
If user presses „Cancel“ button, the current program will start to run.

Washer WasherDryer Dryer

Storing a memory program (FA-ID: 510.1)

Configure primary parameter screen: the current program is saved as favorite - Siemens

not started in work ui reviewed ic team reviewed all reviewed



The program is saved as a favorite program to the beginning of the program list. The user can check it when he comes back to the program selection screen.

UI requirement:

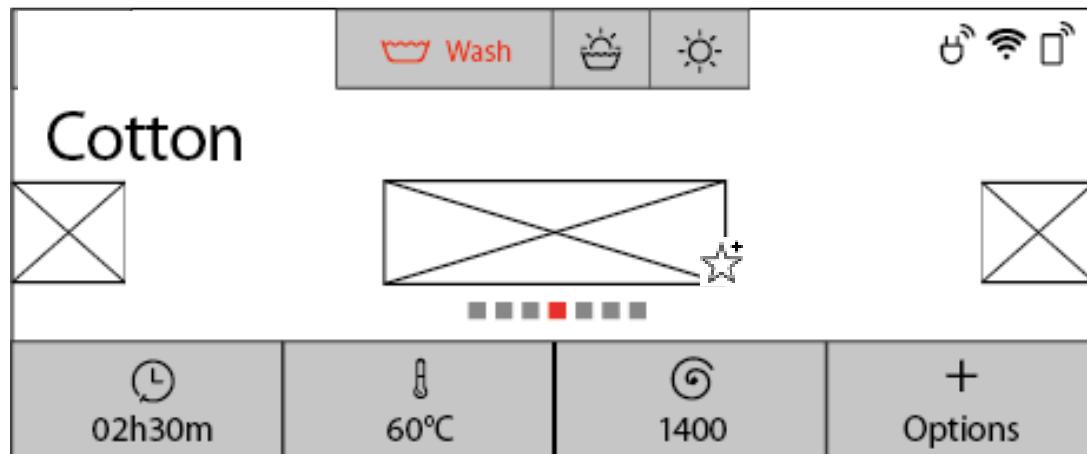
The favorite button status should be updated to saved status.

Washer WasherDryer Dryer

Storing a memory program (FA-ID: 510.1)

Program selection screen: save a favorite program in program selection screen - Bosch

not started in work ui reviewed ic team reviewed all reviewed

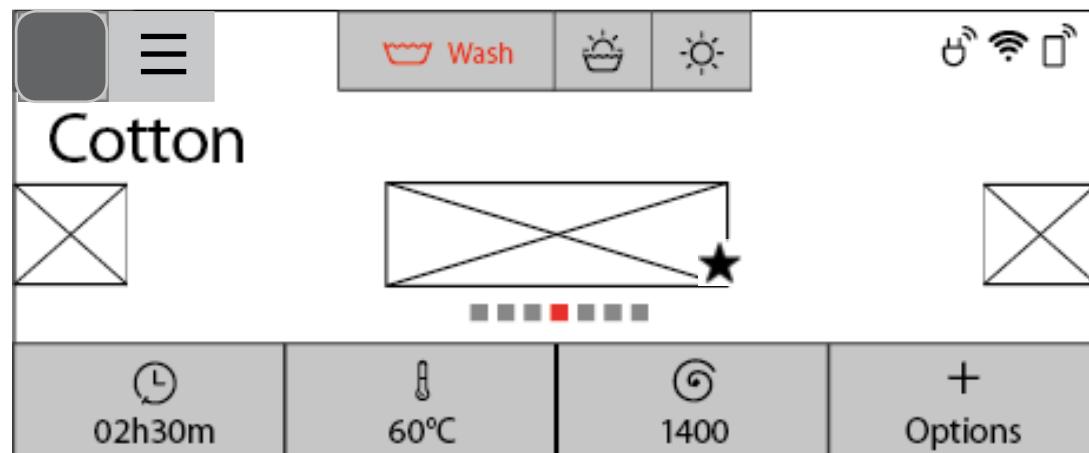


The favorite button should be clearly visualized that it is a button to tap, not the whole tile to tap.

Storing a memory program (FA-ID: 510.1)

Program selection screen: program saved as favorite in program selection screen - Bosch

not started in work ui reviewed ic team reviewed all reviewed



The menu entry only contains the setup functions: basic setup entry, child lock, mute and RSA settings. It makes no sense to put it in the prominent position in the left upper corner. This topic will be discussed in the concept alignment meeting.

Only if the user saves at least one favorite program, the switch button between „favorite“ and „normal program“ will be shown. (*from OT summative test result: „with the siemens, where the separate favorite menu is a lot easier to find, 80% preferred that separate placement. and also from the experience in other product, there always is a fixed/separate favorite list.“*)

The saved favorite program will be shown in the favorite program list.

The favorite button will change from unsaved to saved status. (*To solve the problem from summative test, even if there is a message to tell user that the favorite is saved, but the unchanged status of Star button leads to unsure about this.*)

After saving a favorite, stay in the current program selection screen, do not redirect to the favorite program list. (*The current F25 OT favorite solution*)

The same program with different option settings could be saved as many copies. **How to differentiate the different copies clearly need to be worked out (e.g. visual design).**

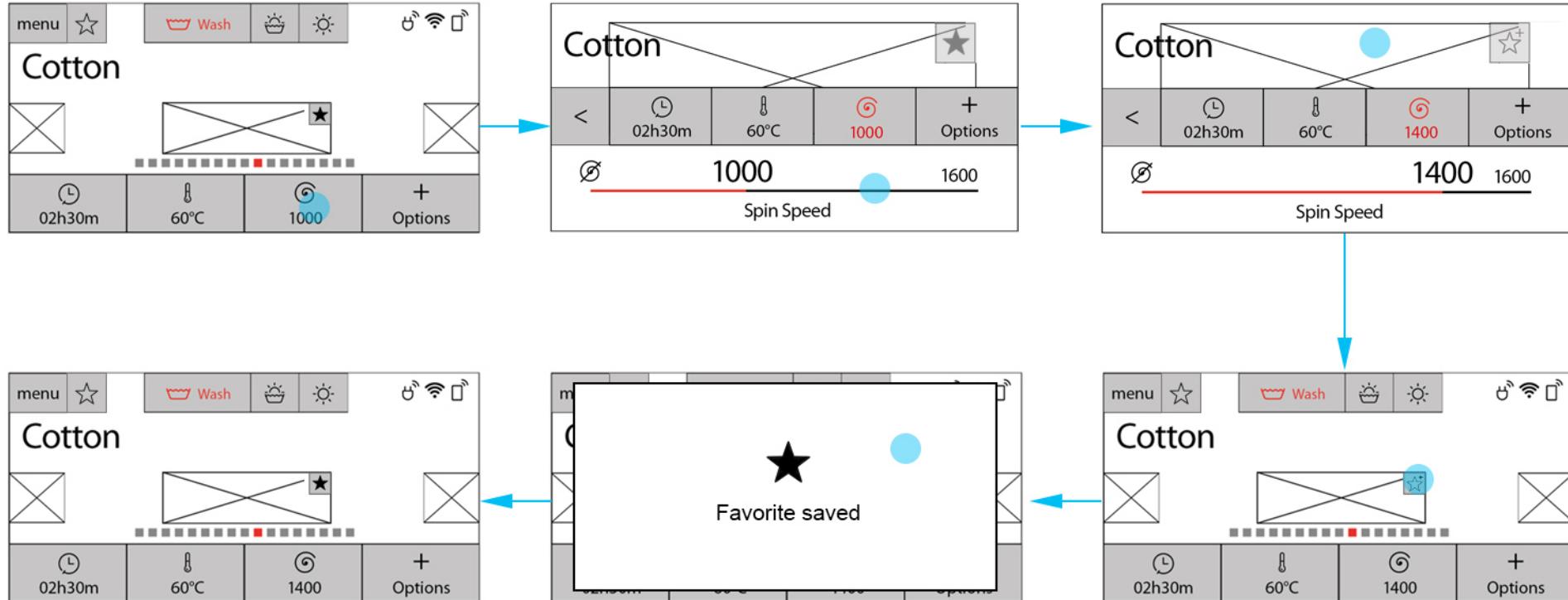
The name of the favorite program can also be renamed from app and reflect on the appliance.

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Storing a memory program (FA-ID: 510.1)

Save the same program with different settings as different favorites programs - Bosch

○ not started ● in work ○ ui reviewed ○ ic team reviewed ○ all reviewed



Saving a favorite program can be done in both program selection view and parameter configuration view.

The status of the favorite button (saved, unsaved) should be updated accordingly when adjusting the parameters.

Recalling a memory program (FA-ID: 510.2)

 not started  in work  ui reviewed  ic team reviewed  all reviewed

Short Description

The user can recall the favorite program he saved before.

For Bosch:

the user can recall the favorite program from the separate favorite program list.

For Siemens:

the user can recall the favorite program in the program selection screen where all of the favorite programs and normal programs are listed together.

Max number of favorites programs:

7

Technical Details

Use Context

Remarks

1. The user has saved his favorite used programs, he wants to recall the favorite program with favorite settings during his washing.

For Bosch:

The user has saved his favorite program in a specific favorite list, he could recall it everytime in the favorite list.

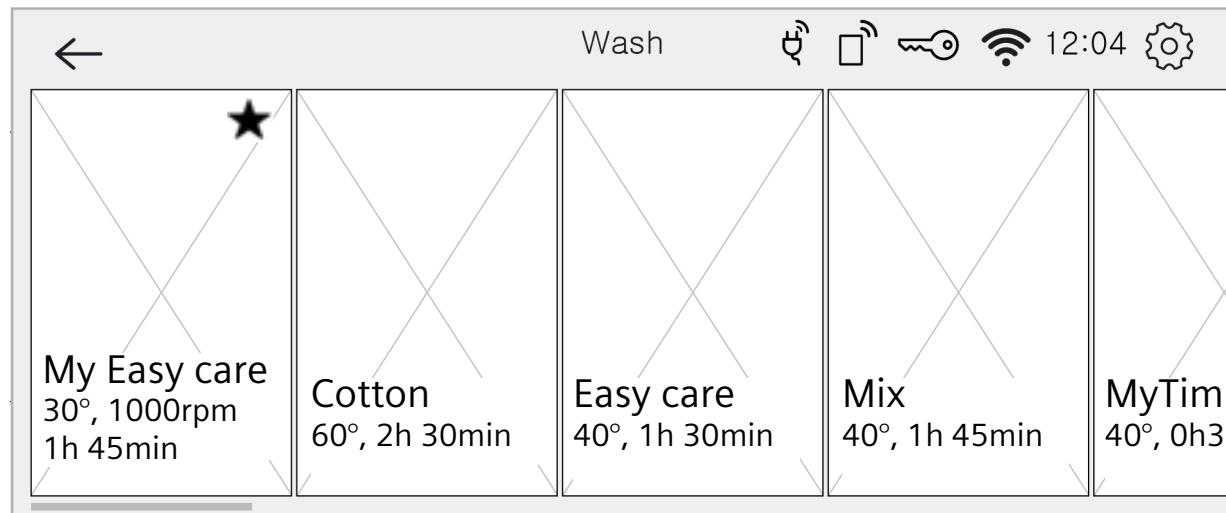
For Siemens:

For user, the favorite program is a kind of self-configured programs in the program list, he could always find the program he wants in the program list.

Washer WasherDryer Dryer

Recalling a memory program (FA-ID: 510.2)

Program selection screen: recall favorite program in program selection screen - Siemens

 not started in work ui reviewed ic team reviewed all reviewed

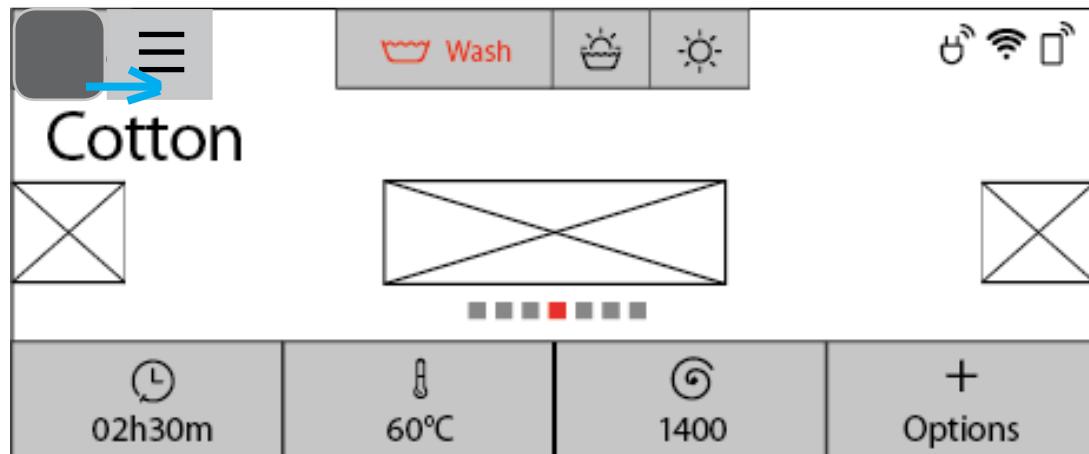
The favorite programs are integrated with the normal programs.

For recalling a favorite program, it is similar like selecting a program, please refer to the use case „Selecting a program“, and selecting a favorite program from the program list.

Recalling a memory program (FA-ID: 510.2)

Program selection screen: recall favorite - Bosch

not started in work ui reviewed ic team reviewed all reviewed



The current view is normal program list view:

- the mode selection button is shown in the top center of the screen.

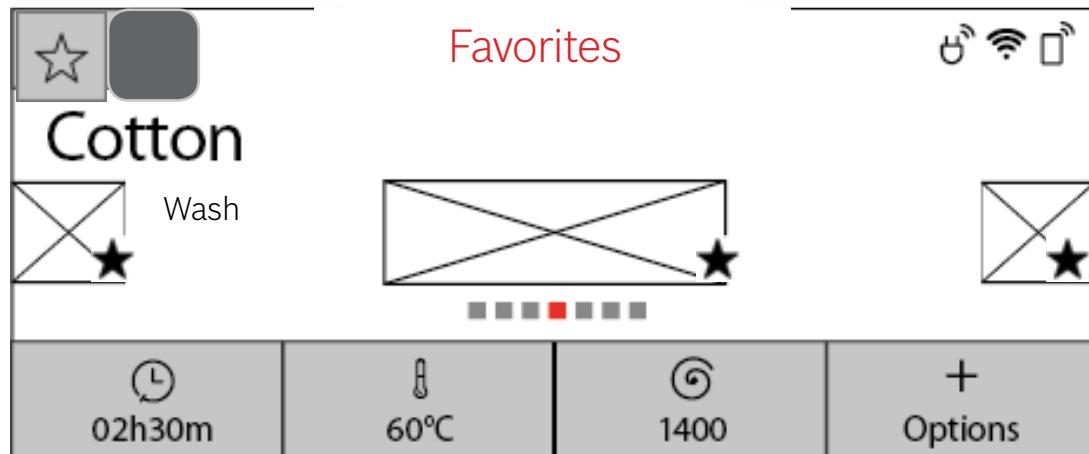
Tap on the switch button to the right to switch to the favorite program list.

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Recalling a memory program (FA-ID: 510.2)

Program selection screen: recall favorite - Bosch

not started in work ui reviewed ic team reviewed all reviewed



Tap on the switch button to the left should switch to the normal program list view.

The screen changes to the favorite program list view:

- The mode selection buttons will be replaced with „Favorites“ title.
- The favorite programs from different modes will be saved together in the favorite program list. (*Current D25 OT solution, too*)

UI requirements:

The mode of the favorite programs should be clearly indicated (either texts or symbols).

Removing a memory program (FA-ID: UI27)

not started in work ui reviewed ic team reviewed all reviewed

Short Description	Technical Details	Use Context	Remarks
The user can delete his saved favorite program if he wants. Selectable values: Saved, Not saved Default value: the program must be saved to perform this use case.		1. The saved favorite program is not used any more or there are too many favorite programs, the user wants to remove some of them.	

Washer WasherDryer Dryer

Removing a memory program (FA-ID: UI27)

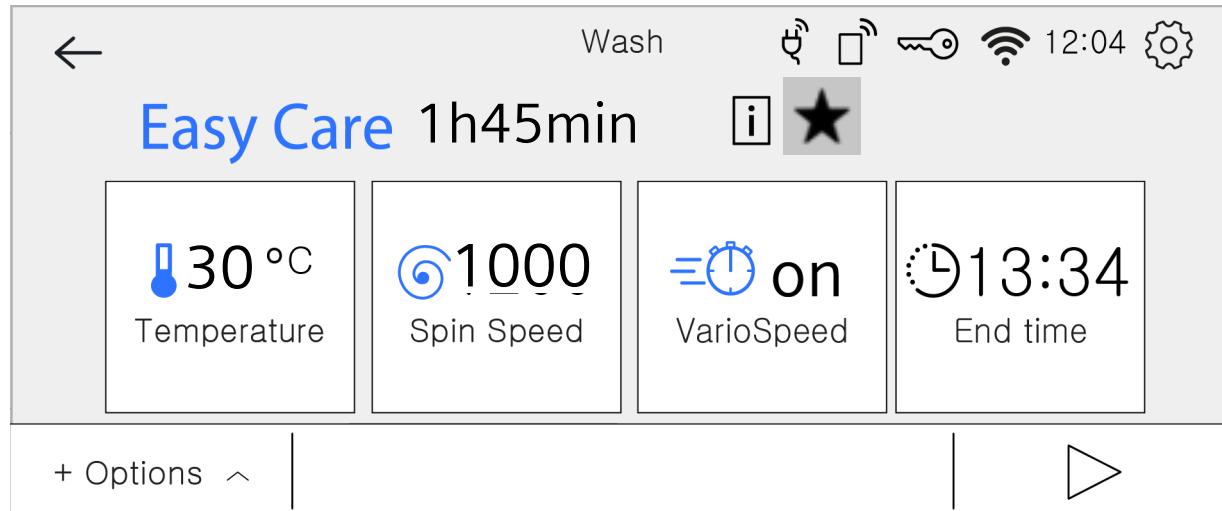
Program selection screen: selecting a favorite program - Siemens

 not started in work ui reviewed ic team reviewed all reviewed

Washer WasherDryer Dryer

Removing a memory program (FA-ID: UI27)

Configure primary parameter screen: favorite program configuration screen - Siemens

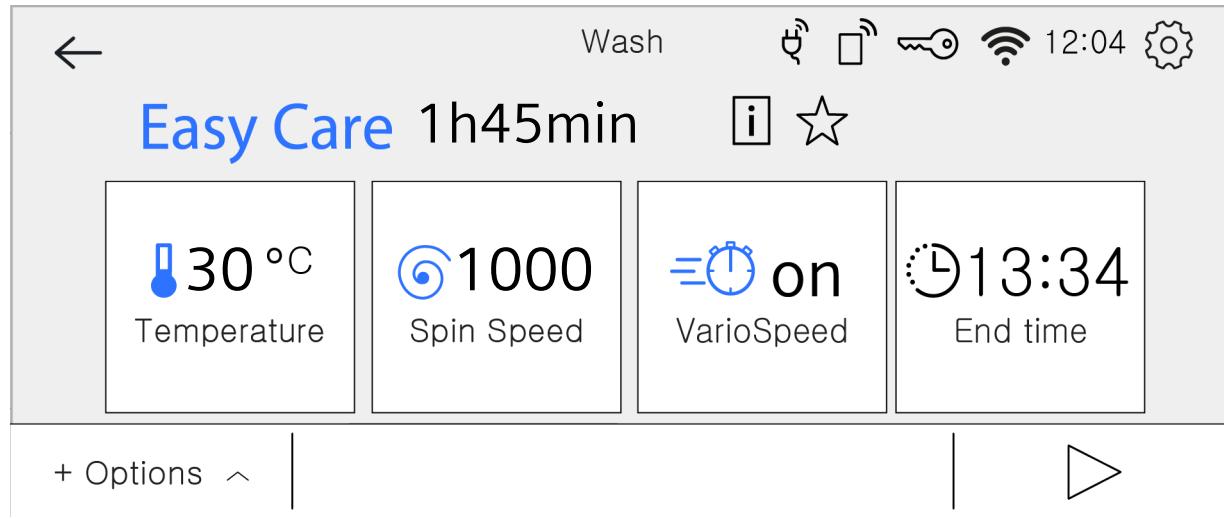
 not started in work ui reviewed ic team reviewed all reviewed

Washer WasherDryer Dryer

Removing a memory program (FA-ID: UI27)

Configure primary parameter screen: favorite removed - Siemens

not started in work ui reviewed ic team reviewed all reviewed



The favorite button is changed from saved to unsaved status.

Open question:

If the favorite program is removed from this screen. Actually it is not existing in the program list any more.

How to handle the not existing program in this view? user can still start it from this view.

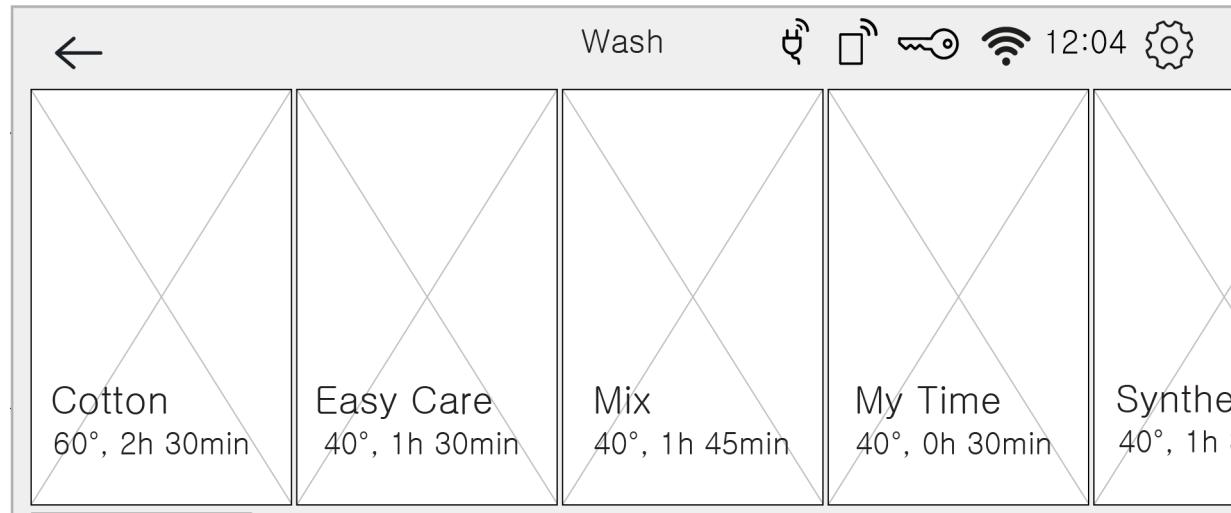
but after return to the program list screen, it disappears from the program list.

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Removing a memory program (FA-ID: UI27)

Program selection screen: favorite program removed - Siemens

○ not started ○ in work ● ui reviewed ○ ic team reviewed ○ all reviewed

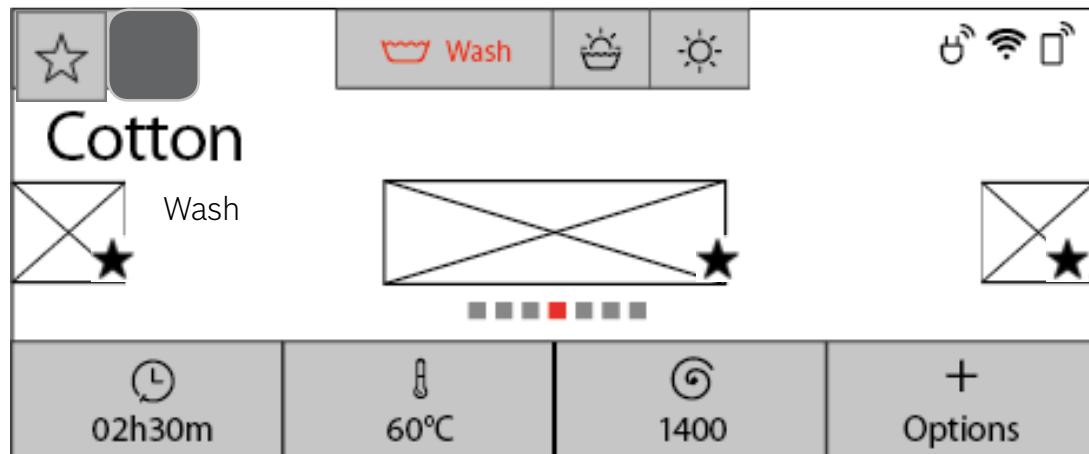


The favorite program is removed from the program list.

Removing a memory program (FA-ID: UI27)

Case 1: Favorite program selection screen: remove from favorite cluster- Bosch

not started in work ui reviewed ic team reviewed all reviewed



In the favorite program list, the favorite program can be removed by:

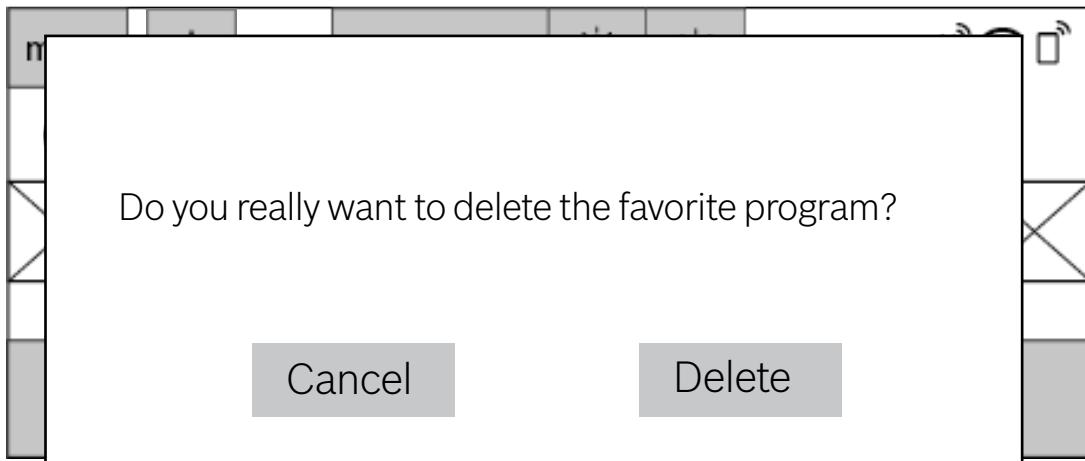
- tap on the favorite button in program selection screen.
- tap on the favorite button in parameter configuration screen.

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Removing a memory program (FA-ID: UI27)

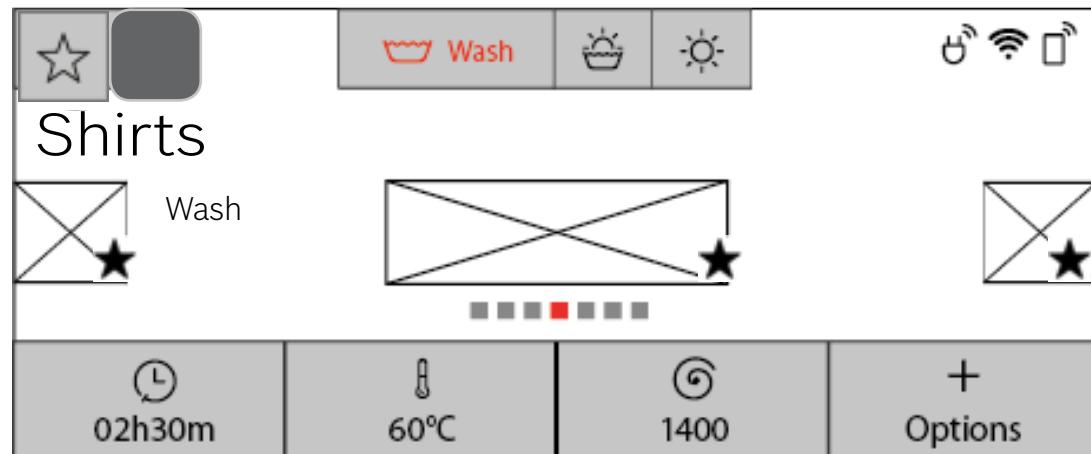
Message screen: delete confirmation screen - Bosch

not started in work ui reviewed ic team reviewed all reviewed



Removing a memory program (FA-ID: UI27)

Favorite program selection screen: removing from favorite program cluster - Bosch

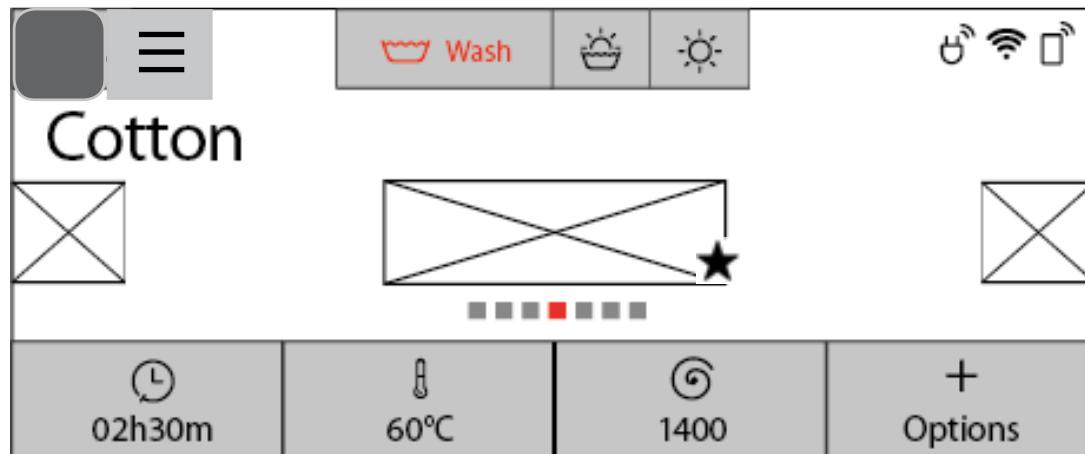
 not started in work ui reviewed ic team reviewed all reviewed

The favorite program is removed from favorite program list.

Removing a memory program (FA-ID: UI27)

Case 2: program selection screen: removing from program selection screen - Bosch

not started in work ui reviewed ic team reviewed all reviewed



In the normal program list, the favorite program can be removed by:

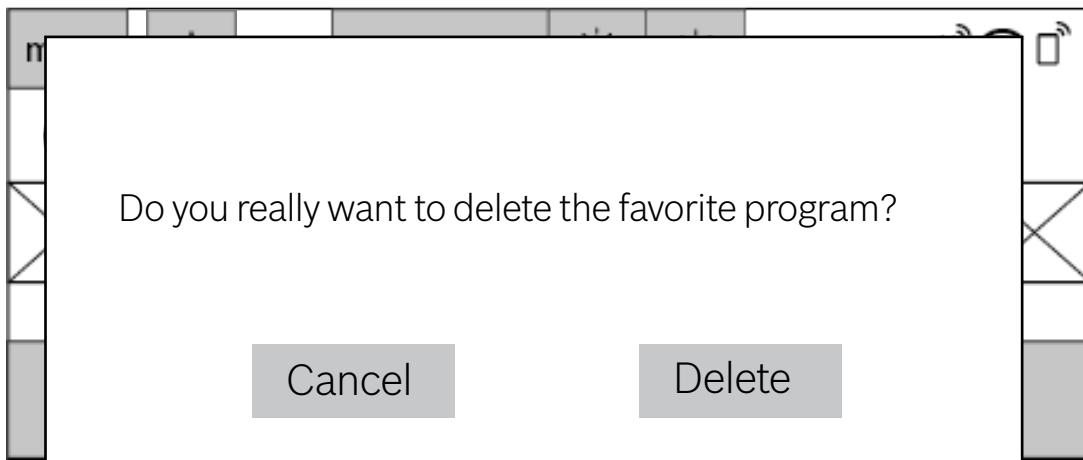
- tap on the favorite button in program selection screen.
- tap on the favorite button in parameter configuration screen.

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Removing a memory program (FA-ID: UI27)

Message screen: Delete confirmation screen - Bosch

not started in work ui reviewed ic team reviewed all reviewed

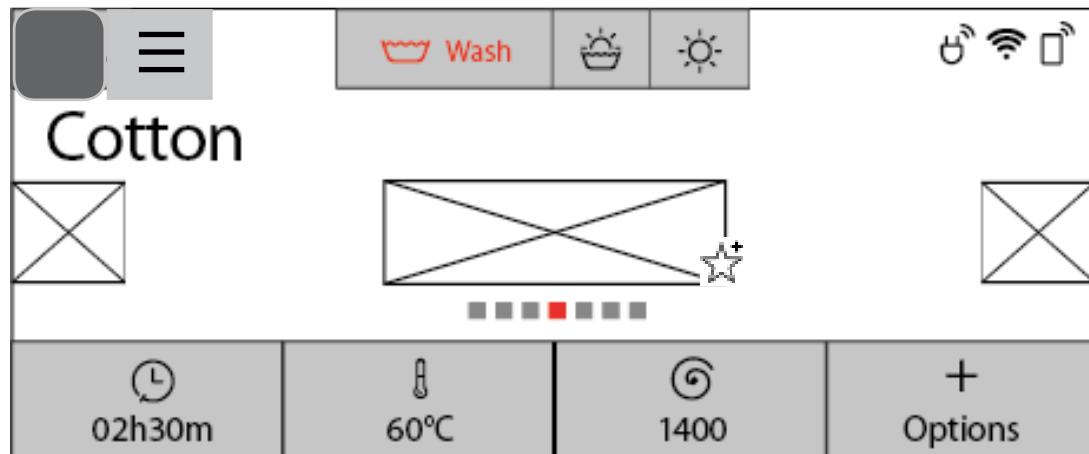


Washer WasherDryer Dryer

Removing a memory program (FA-ID: UI27)

Program selection screen: favorite deleted - Bosch

not started in work ui reviewed ic team reviewed all reviewed



The favorite button changes from saved status to unsaved status. (*To solve the problem from summative test, even if there is a message to tell user that the favorite is saved, but the unchanged status of Star button leads to unsure about this. And vice versa.*)

The saved favorite program will be removed from the favorite program list.

Favorite

Needed design

Bosch:

- favorite and normal program switch button
- status of star button
- the mode indication of favorite programs
- new solution for menu (settings)
- star button on program tile

Siemens:

none

Entering and leaving options menu (FA-ID UI23)

not started in work ui reviewed ic team reviewed all reviewed

Short Description

The user can select and activate additional program options in the options menu. The user gets access to options, like stains, water plus, soak etc., on a second interface level

Approximately 10-20 additional options will be offered to the user.

The overview which option the user has selected will always be visible (even if the appliance is in a state, which does not allow adapting the options).

For more information about specific options, please refer to the corresponding concepts.

Technical Details

Use Context

Remarks

1) User type „Pragmatic“: Usually the user stays with the preselected settings of a program and doesn't do many changes. But once in a while, he wants to add some additional treatment to the laundry, e.g. Prewash cycle before washing phase, because the laundry is especially dirty this time.

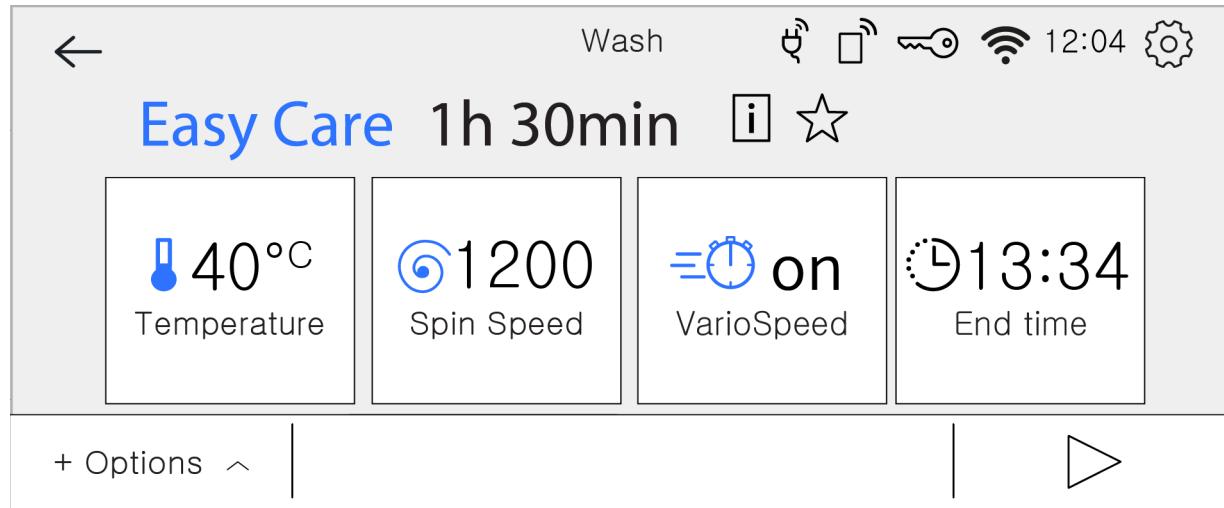
2) User type „Controlled“: The user uses many programs and functions and adapts them. He adds more often additional options to the default settings.

3) The user has forgotten to select an option. He already started the appliance and now wants to add an additional option.

Entering and leaving options menu (FA-ID UI23)

Entering options menu - Configure overview of selected program screen - Siemens

not started in work ui reviewed ic team reviewed all reviewed



Additional options which are selected will be displayed to the right of the Option button within the „Configure overview of selected program screen“. The user can always see which options are selected.

If the appliance is in a state, where no additional option can be changed, the Option button is still selectable and the option menu will open.

UI requirements:

The user must be able to see which options (secondary parameters) are currently selected for a chosen primary parameter. (ID 47)

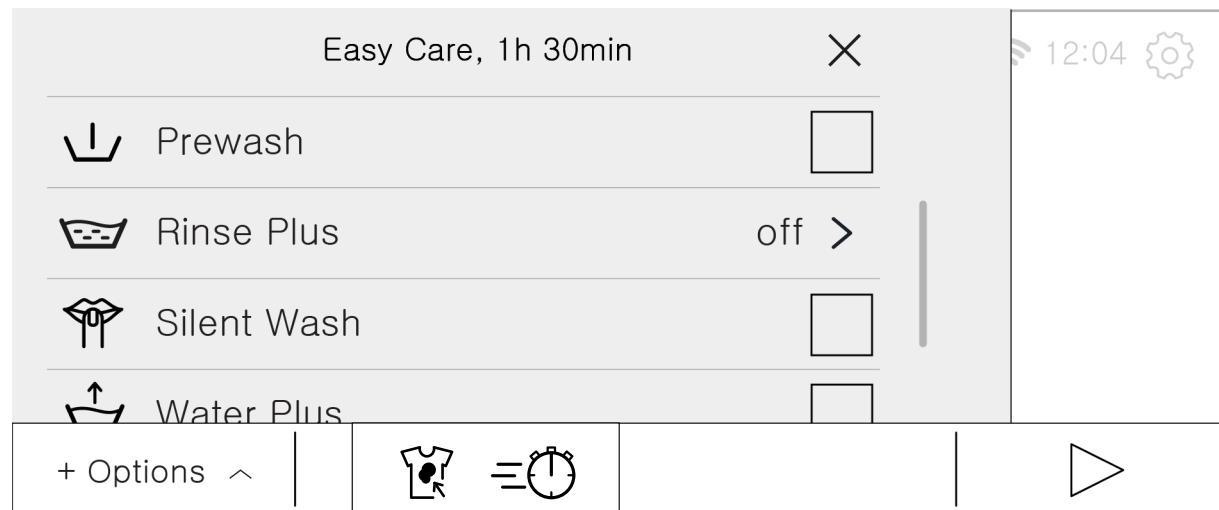
The user must be able to recognize where and how to change options (secondary parameters). (ID 48)



Entering and leaving options menu (FA-ID UI23)

Leaving options menu - Configure additional options screen - Siemens

not started in work ui reviewed ic team reviewed all reviewed



A transparent overlay appears, opening the option menu.

UI requirements:

The user must be able to see which options (secondary parameters) are currently selected for a chosen primary parameter. (ID 47)

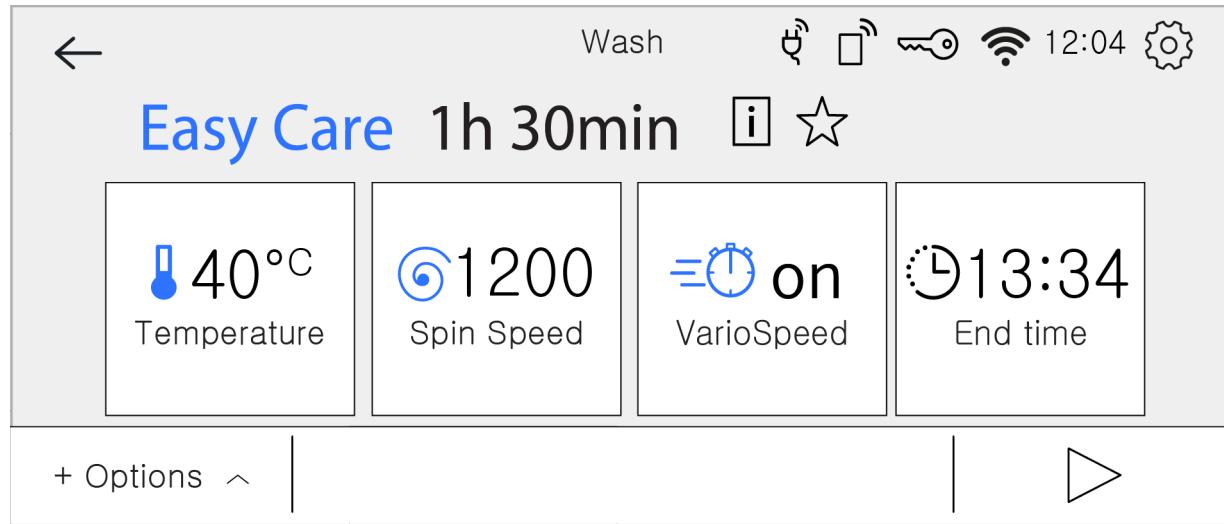
Parameters and options should be displayed according to the program process in a logical order. (ID 96)

By actuating the close button OR by tapping on the background, the values are saved and the user returns to „Configure overview of selected program“ screen.

Washer WasherDryer Dryer

Entering and leaving options menu (FA-ID UI23)

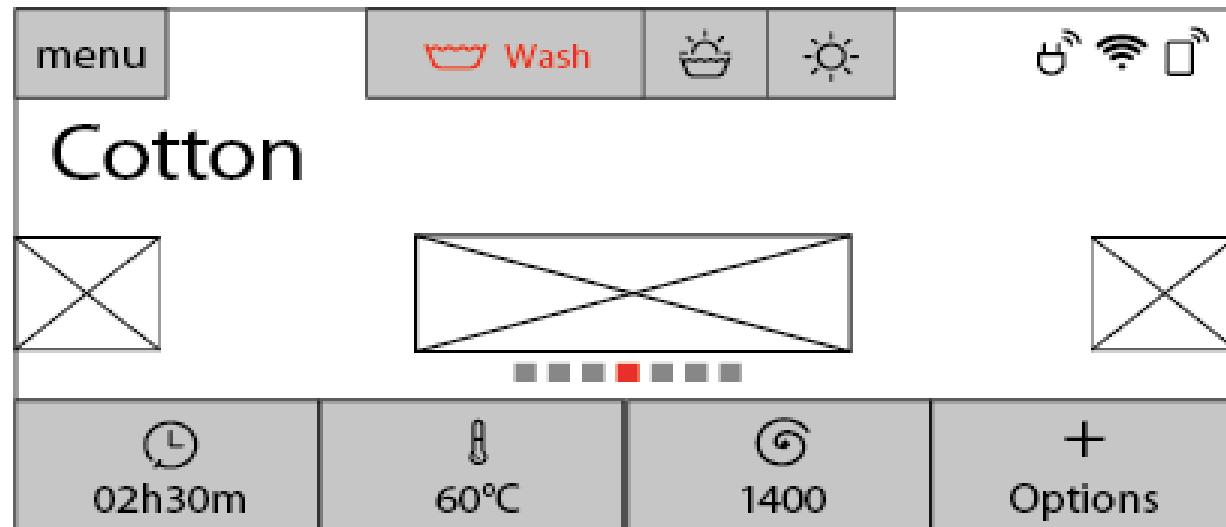
Configure overview of selected program screen - Siemens

 not started in work ui reviewed ic team reviewed all reviewed

Entering and leaving options menu (FA-ID UI23)

Entering options menu - Program selection screen - Bosch

not started in work ui reviewed ic team reviewed all reviewed



UI requirements:

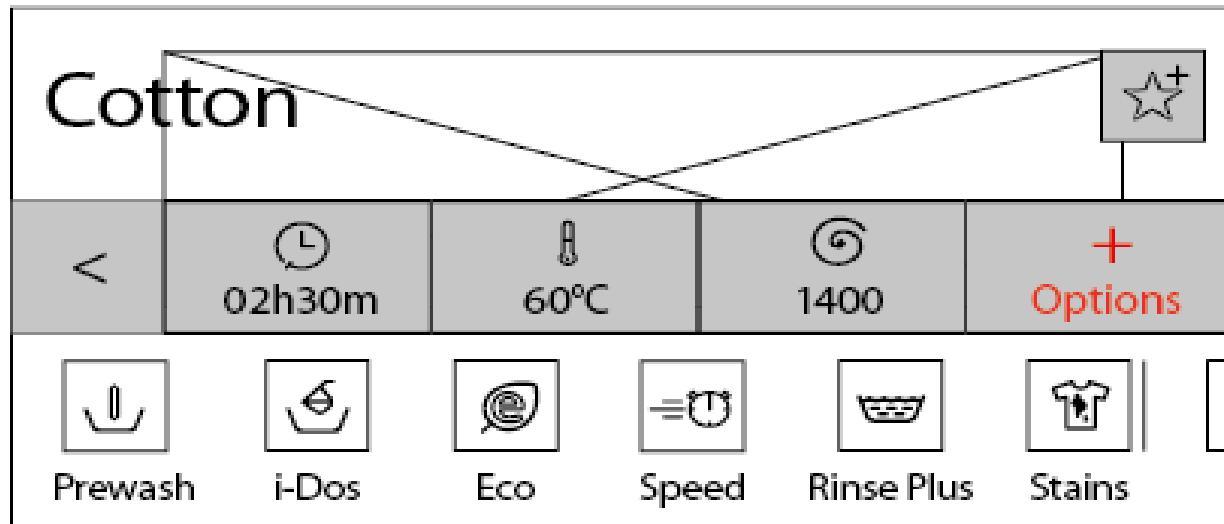
The user must be able to see which options (secondary parameters) are currently selected for a chosen primary parameter. (ID 47)

The user must be able to recognize where and how to change options (secondary parameters). (ID 48)

Entering and leaving options menu (FA-ID UI23)

Leaving options menu - Configure additional options screen - Bosch

not started in work ui reviewed ic team reviewed all reviewed



By actuating the back button OR the option menu button OR the background, the values are saved and the user returns to „Program selection screen“.

A transparent overlay appears, opening the option menu.

If the appliance is in a state, where no additional option can be changed, the Option button is still selectable and the option menu will open.

Additional options which are selected will be displayed within the Option button. The user can always recall which options are selected.

UI requirements:

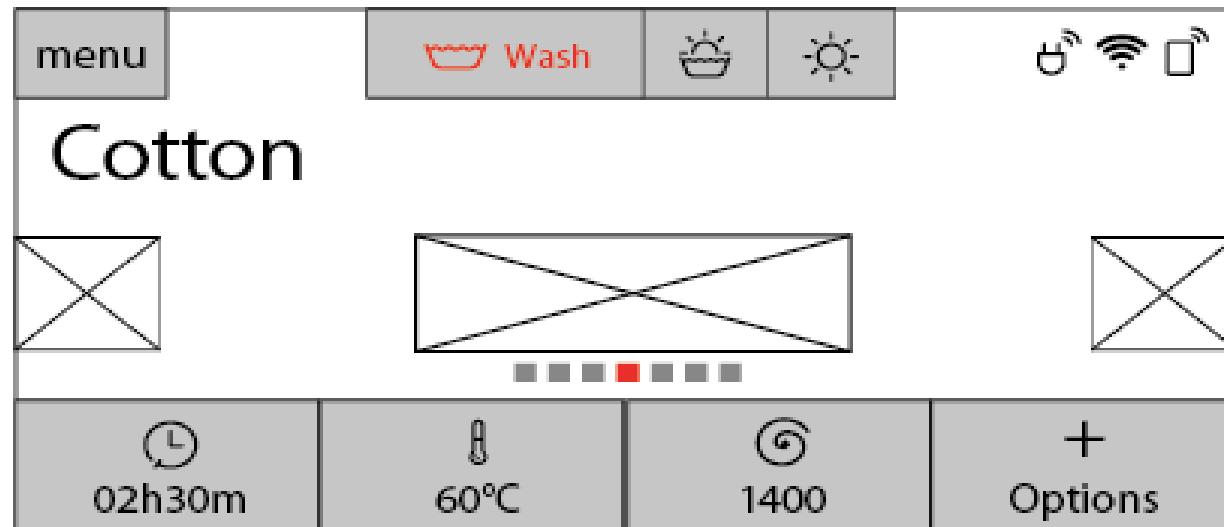
The user must be able to see which options (secondary parameters) are currently selected for a chosen primary parameter. (ID 47)

Parameters and options should be displayed according to the program process in a logical order. (ID 96)

Washer WasherDryer Dryer

Entering and leaving options menu (FA-ID UI23)

Entering options menu - Program selection screen - Bosch

 not started in work ui reviewed ic team reviewed all reviewed

Selecting temperature (FA-ID 2000.1)

 not started

 in work

 ui reviewed

 ic team reviewed

 all reviewed

Short Description

The user can select a new temperature for each washing program that uses the heater.

Programs that do not heat are for example „Spin“ or „Drain“.

Selectable values:

cold, 20°C, 30°C, 40°C, 50°C, 60°C, 70°C, 80°C, 90°C

The selectable temperatures and the default temperature can differ between programs. They are defined by the washing process technique, according to the needs of the respective laundry type and program properties.

Program specific selection

Selection preservation: conditional

Technical Details

For temperature selection, the appliance must be in the ready, pause, delayed start or program running state.

In program running or pause state, the state must allow temperature selection. Which process state is allowed is defined in the UPS (normally before heating phase is started).

Higher washing temperature results in higher program durations.

Use Context

1) The user wants to wash some delicates and wants to treat them with special care. Instead of using the default temperature of his chosen program 40°C, he lowers the temperature to 30°C.

2) The user needs a higher temperature for his cotton laundry today. The pieces he wants to wash and dry are predominantly towels and several baby cotton rags. Therefore he selects 90°C for getting a hygienic result.

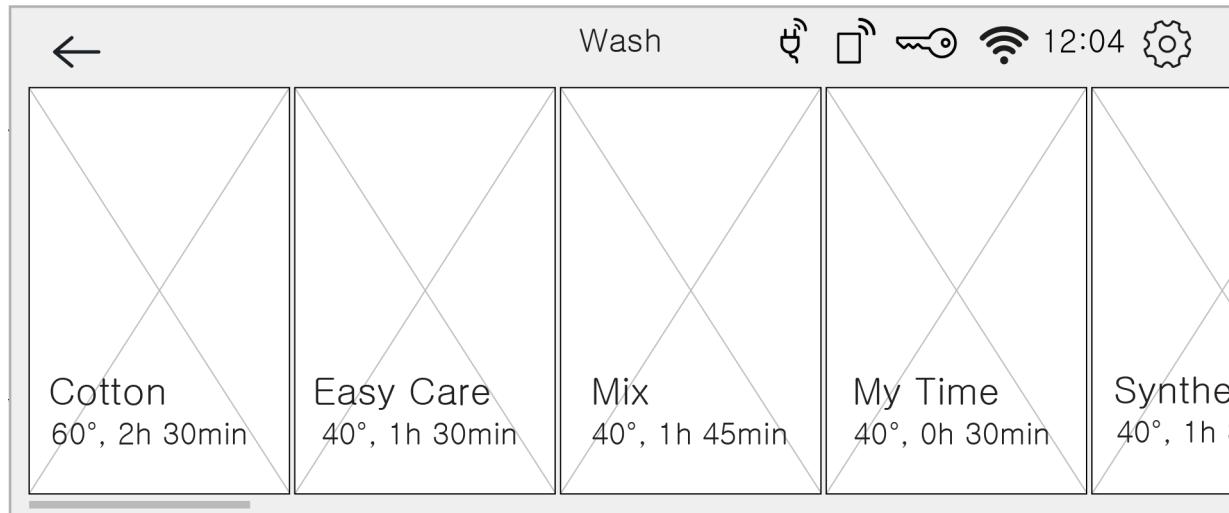
Remarks

The used interaction pattern needs to be clarified with Design. Afterwards a final clarification about the selectable values must follow with Demand.

Washer WasherDryer Dryer

Selecting temperature (FA-ID 2000.1)

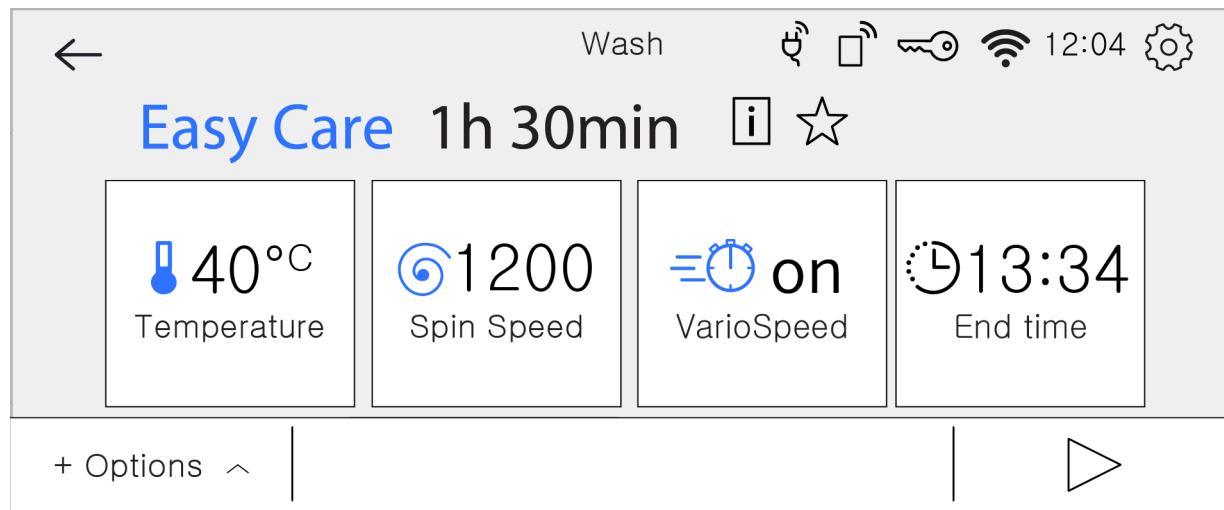
Program selection screen - Siemens

 not started in work ui reviewed ic team reviewed all reviewed

Washer WasherDryer Dryer

Selecting temperature (FA-ID 2000.1)

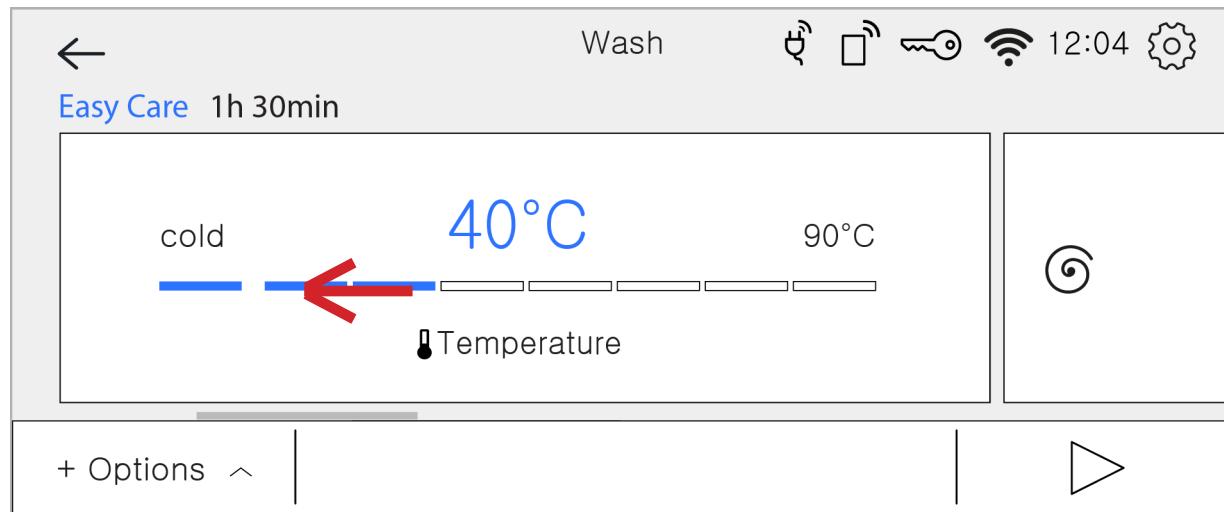
Configure overview of selected program screen - Siemens

 not started in work ui reviewed ic team reviewed all reviewed

Washer WasherDryer Dryer

Selecting temperature (FA-ID 2000.1)

Configure primary parameter screen - Siemens

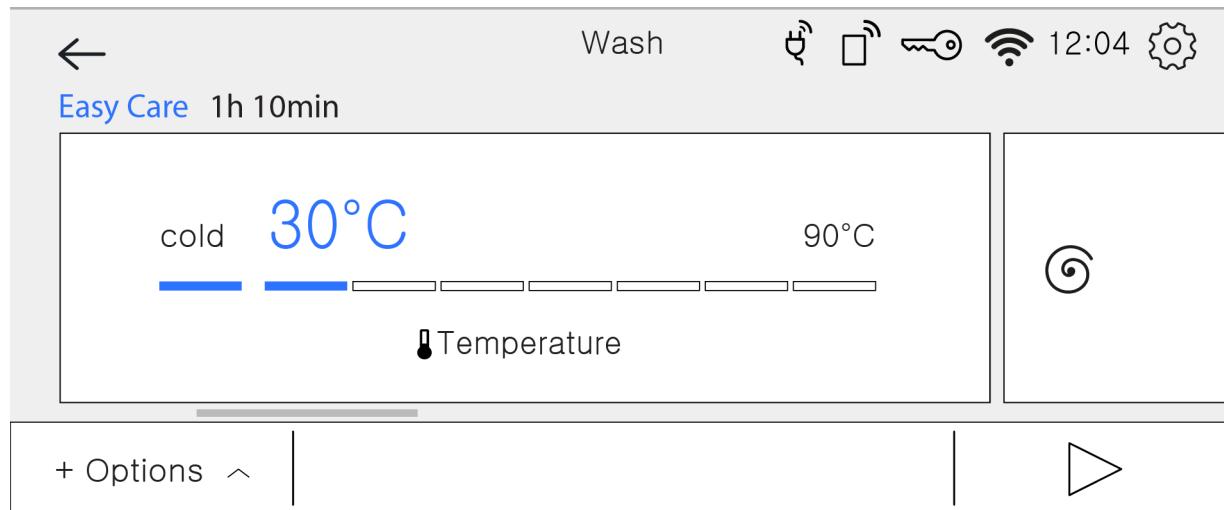
 not started in work ui reviewed ic team reviewed all reviewed

The temperature parameter value can be selected by swiping over the values or by tapping on a value bar.

Washer WasherDryer Dryer

Selecting temperature (FA-ID 2000.1)

Configure primary parameter screen - new temperature selected - Siemens

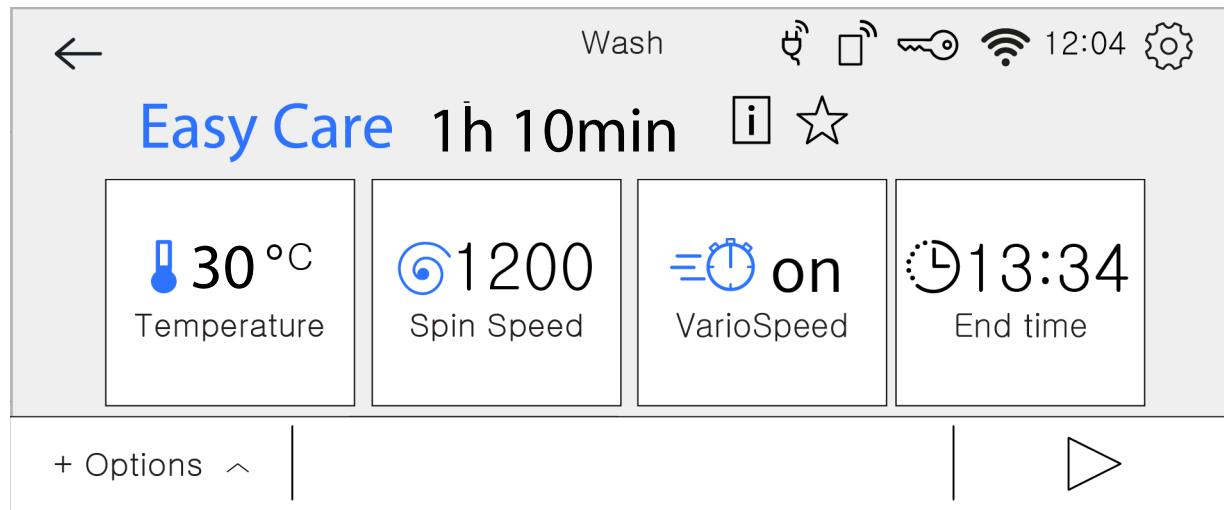
 not started in work ui reviewed ic team reviewed all reviewed

Tap on the back arrow as well as anywhere outside the opened tile will lead to configure primary parameter screen with closed tiles. The value is saved.

Washer WasherDryer Dryer

Selecting temperature (FA-ID 2000.1)

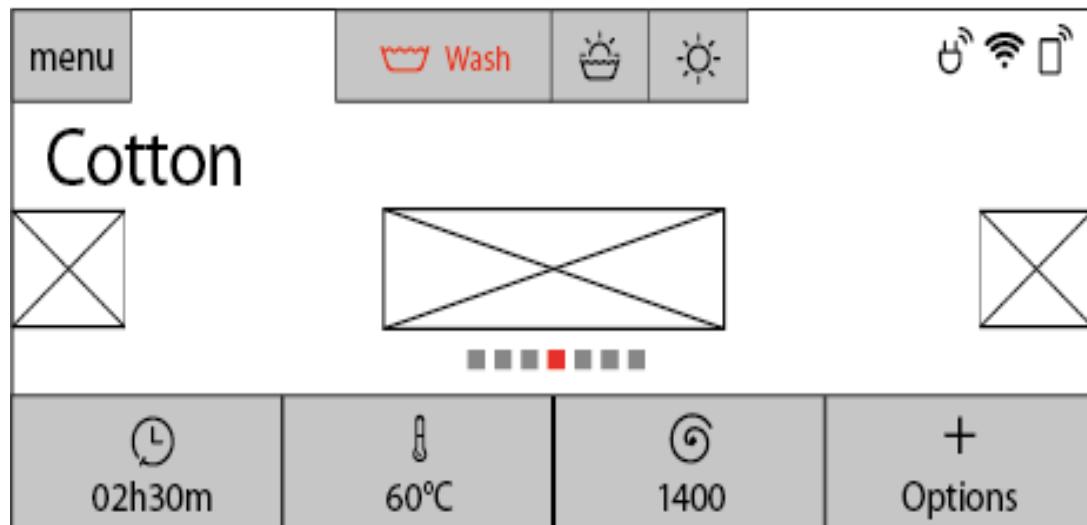
Configure overview of selected program screen - new temperature selected - Siemens

 not started in work ui reviewed ic team reviewed all reviewed

Washer WasherDryer Dryer

Selecting temperature (FA-ID 2000.1)

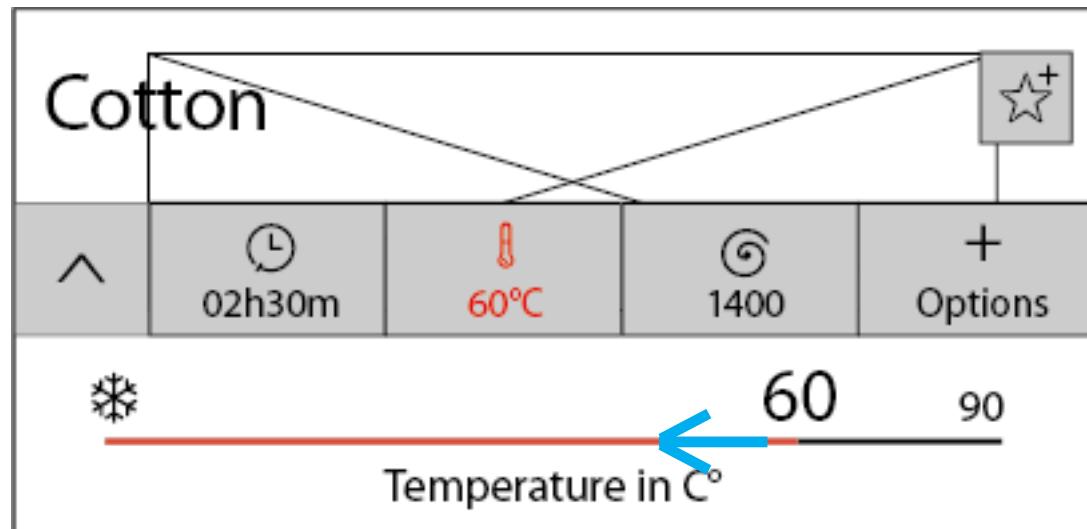
Program selection screen - Bosch

 not started in work ui reviewed ic team reviewed all reviewed

Washer WasherDryer Dryer

Selecting temperature (FA-ID 2000.1)

Configure primary parameter screen - Bosch

 not started in work ui reviewed ic team reviewed all reviewed

The temperature parameter value can be selected by swiping over the values or by tapping.

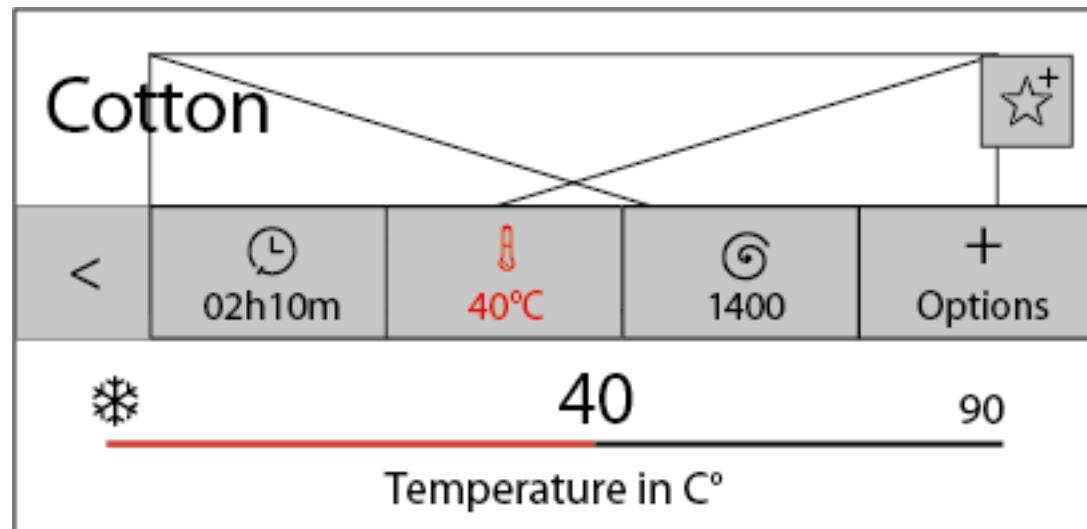
A transparent overlay appears from the bottom of the screen, opening the value selection of temperature parameter. No change of whole screen content, only transparent overlay.

Washer WasherDryer Dryer

Selecting temperature (FA-ID 2000.1)

Configure primary parameter screen - new temperature selected - Bosch

not started in work ui reviewed ic team reviewed all reviewed



Remark:

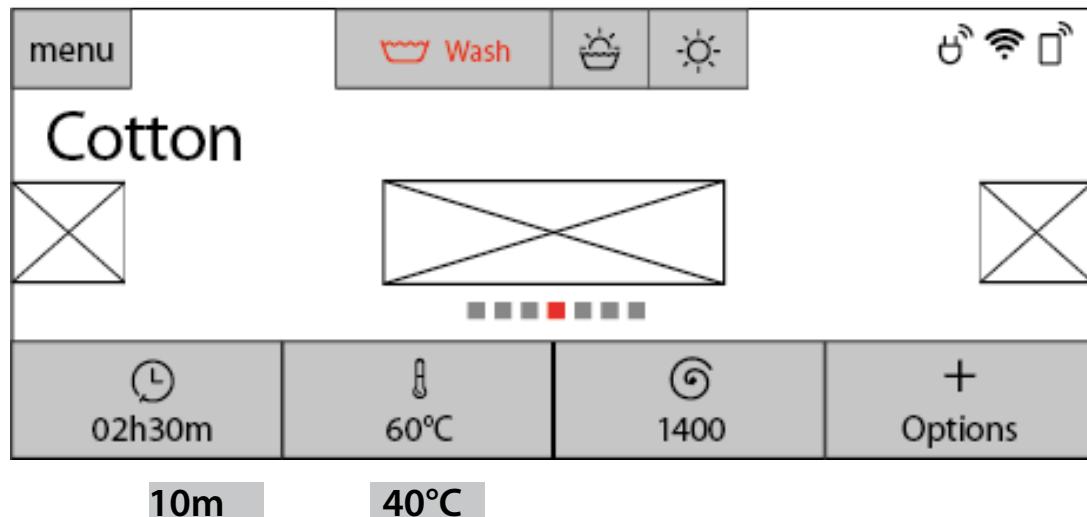
When the temperature has been selected, the corresponding temperature is updated on the temperature parameter button and on the program selection screen as well.

By tapping on the back button OR on the temperature parameter button the value is saved and user returns to program selection screen.

Washer WasherDryer Dryer

Selecting temperature (FA-ID 2000.1)

Program selection screen - new temperature selected - Bosch

 not started in work ui reviewed ic team reviewed all reviewed

Selecting spin speed (FA-ID 700)

 not started

 in work

 ui reviewed

 ic team reviewed

 all reviewed

Short Description

The user can select a new maximum spin speed for each washing program that spins the laundry. The selection affects the intermediate and final spin speed.

Selectable values:

0, ~~200, 300,~~ ~~400, 500, 600, 700,~~
~~800, 900, 1000, 1200, 1400, 1600~~

The selectable spin speeds and the default spin speed can differ between programs and appliance variants. They are defined by the washing process technique, according to the needs of the respective laundry type and program properties.

Program specific selection

Selection preservation: conditional

Technical Details

For spin speed selection, the appliance must be in the ready, pause, delayed start, program running or rinse hold state.

In program running, pause and rinse hold state, the state must allow spin speed selection. Which process state is allowed is defined in the UPS.

Once the spinning has started, the user can only down select the spinning.

The final spin speed selection also has influence on the intermediate spin speed during washing/rinsing phases.

Use Context

1) The user wants to get less moist laundry after washing, so he selects higher spin speed values in order to remove more water from the laundry.

2) The user wants to wash cotton dresses which are some more sensitiv than most cotton clothes. He decides to selects lower spin speed in order to get less wrinkles.

Remarks

The used interaction pattern needs to be clarified with Design. Afterwards a final clarification about the selectable values must follow with Demand.

● Washer ● WasherDryer ○ Dryer

Selecting spin speed (FA-ID 700)

Program selection screen - Siemens

○ not started ○ in work ● ui reviewed ○ ic team reviewed ○ all reviewed

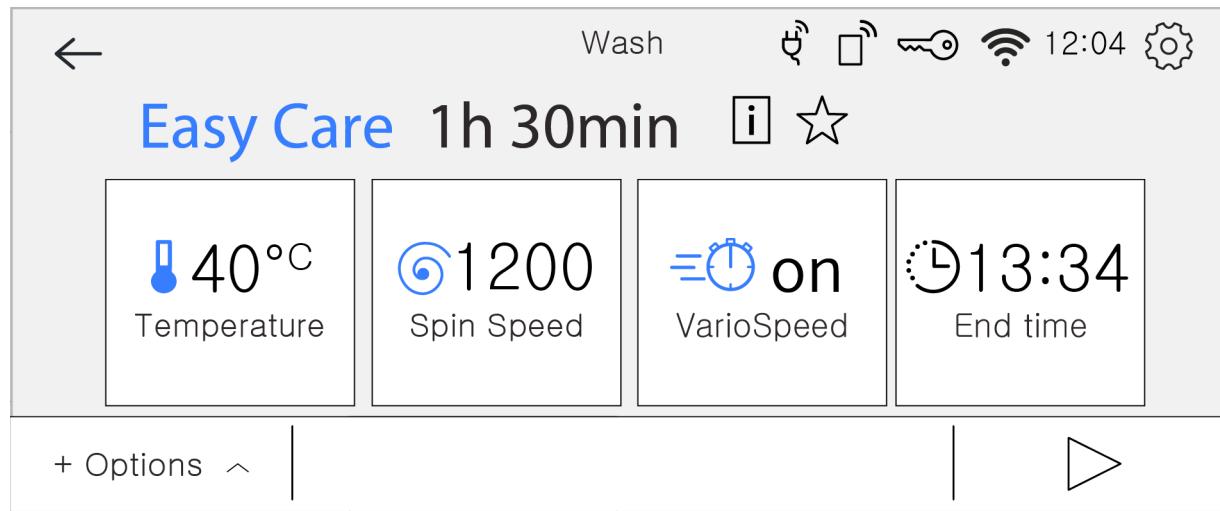


● Washer ● WasherDryer ○ Dryer

Selecting spin speed (FA-ID 700)

Configure overview of selected program screen - Siemens

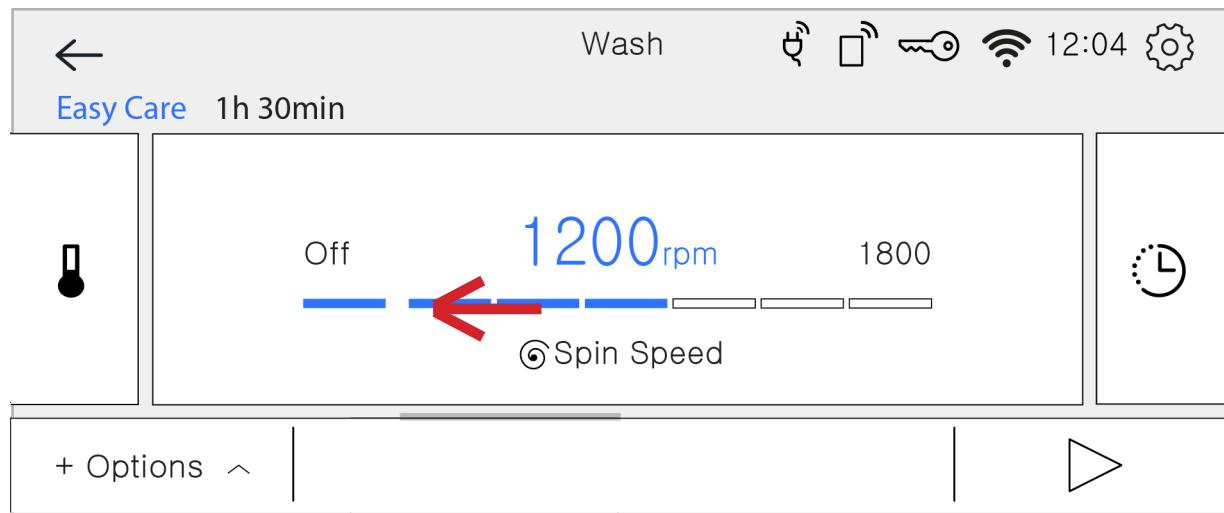
○ not started ○ in work ● ui reviewed ○ ic team reviewed ○ all reviewed



Washer WasherDryer Dryer

Selecting spin speed (FA-ID 700)

Configure primary parameter screen - Spin speed - Siemens

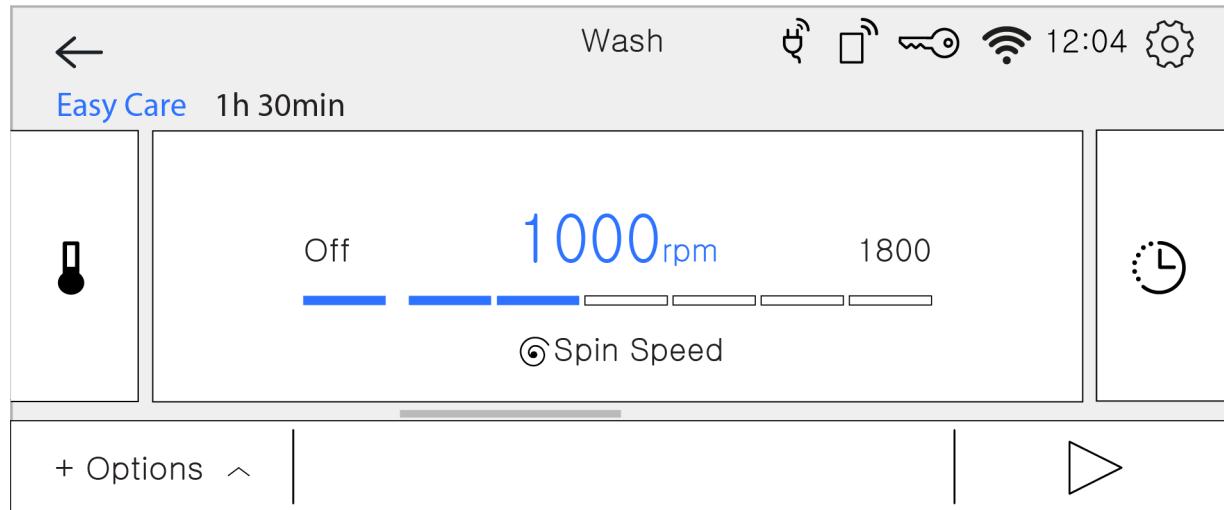
 not started in work ui reviewed ic team reviewed all reviewed

The spin speed parameter value can be selected by swiping over the values or by tapping on a value bar.

Washer WasherDryer Dryer

Selecting spin speed (FA-ID 700)

Configure primary parameter screen - new spin speed selected - Siemens

 not started in work ui reviewed ic team reviewed all reviewed

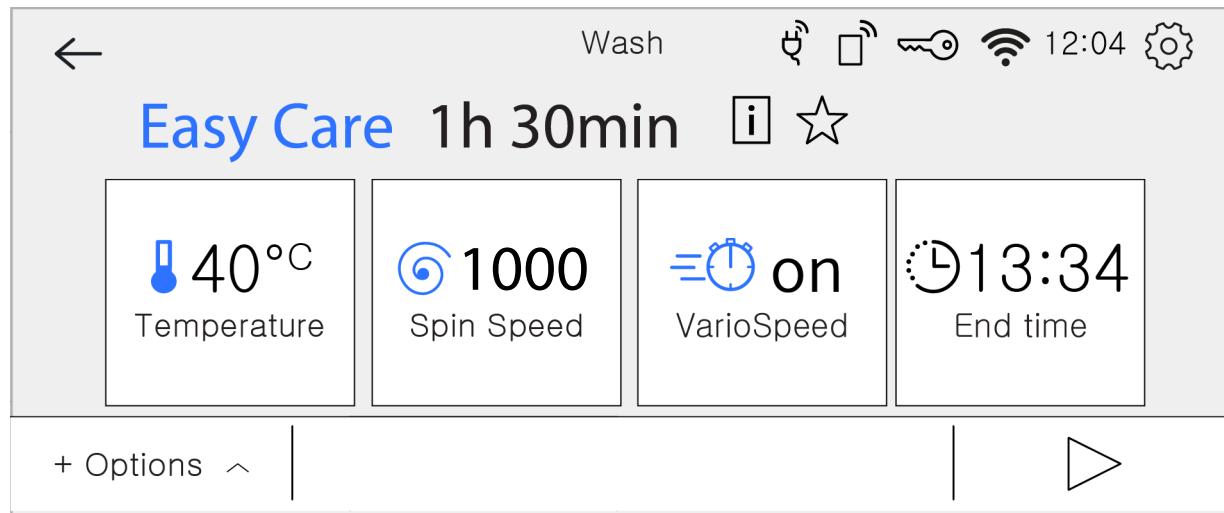
Tap on the back arrow as well as anywhere outside the opened tile will lead to configure primary parameter screen with closed tiles. The value is saved.

● Washer ● WasherDryer ○ Dryer

Selecting spin speed (FA-ID 700)

Configure overview of selected program screen - new spin speed selected - Siemens

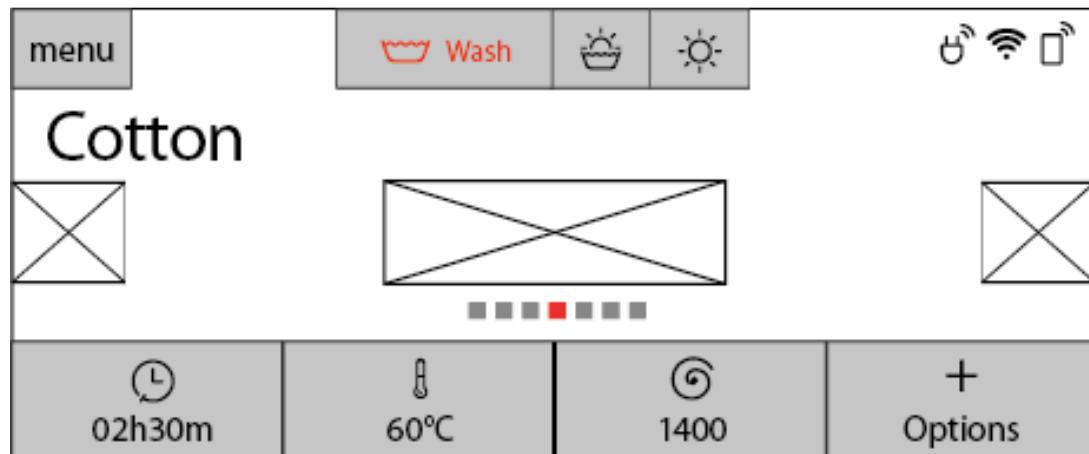
○ not started ○ in work ● ui reviewed ○ ic team reviewed ○ all reviewed



Washer WasherDryer Dryer

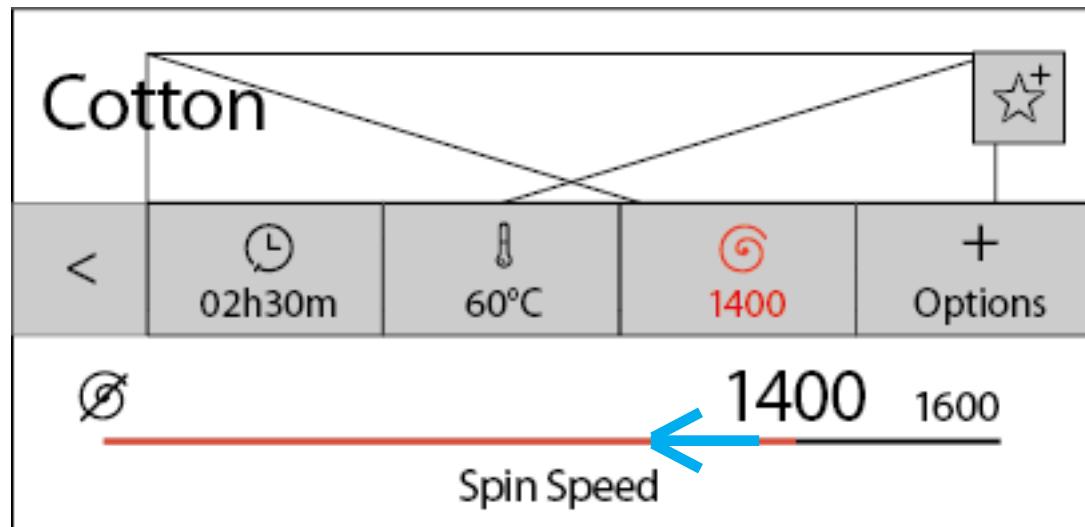
Selecting spin speed (FA-ID 700)

Program selection screen - Bosch

 not started in work ui reviewed ic team reviewed all reviewed

Selecting spin speed (FA-ID 700)

Configure primary parameter screen - Bosch

 not started in work ui reviewed ic team reviewed all reviewed


The spin speed parameter value can be selected by swiping over the values or by tapping.

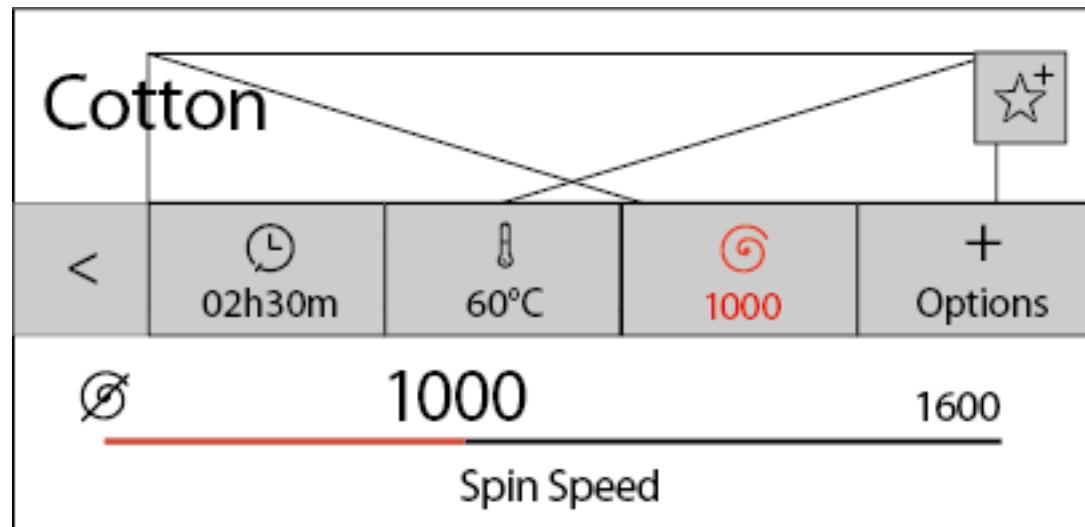
A transparent overlay appears from the bottom of the screen, opening the value selection of spin speed parameter. No change of whole screen content, only transparent overlay.

Washer WasherDryer Dryer

Selecting spin speed (FA-ID 700)

Configure primary parameter screen - new spin speed selected - Bosch

not started in work ui reviewed ic team reviewed all reviewed



Remark:

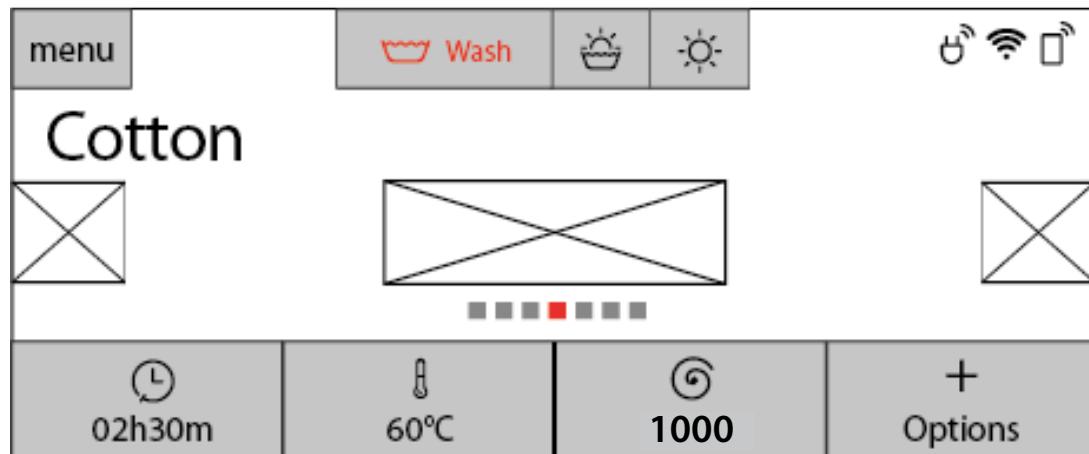
When the spin speed has been selected, the corresponding spin speed is updated on the spin speed parameter button and on the program selection screen as well.

By tapping on the back button OR on the spin speed parameter button the value is saved and user returns to program selection screen.

Washer WasherDryer Dryer

Selecting spin speed (FA-ID 700)

Program selection screen - new spin speed selected- Bosch

 not started in work ui reviewed ic team reviewed all reviewed

Selecting drying target (FA-ID 690)

 not started in work ui reviewed ic team reviewed all reviewed

Short Description

The setting of the Drying target allows the user to select his desired drying result of the laundry. He is able to adjust the auto drying target by actuating the corresponding Drying target button. This selection is only available for autodry programs

Selectable values:

- Iron dry
- Cupboard dry
- Cupboard dry plus

The default value is set by process technique. Not all drying goals are available for all programs. E.g. allergy program only allows cupboard dry plus.

Program specific selection

Selection preservation: conditional

Technical Details

The selectable drying target correspond to three different degree of residual moisture remaining in the textiles after they have been dried.

D: Iron dry: ~ 12%, Cupboard dry: ~ 0% and Cupboard dry plus: ~ -2%).

WD:?

Because of control system concept, this option is not changeable after drying process has started. It is changeable in Ready, Delayed start running and Pause from Delayed start running state.

For washer dryer it is additionally changeable in Program running (only in washing process for wash&dry program) and Pause from Program running state (only in washing process for wash&dry program).

Use Context

The user expects the appliance to select the “smartest” drying target for every textile by default. But also wants the possibility to change this drying target according to his preferred settings:

- 1) The user wants to iron the laundry after washing and drying it. Therefore he selects iron dry as drying target for this laundry.
- 2) The user has not much time and wants to put the laundry directly into the cupboard. So he selects cupboard dry plus, because last time cupboard dry felt not dry enough for him.

Remarks

Selecting the auto drying target is strongly connected to the use cases

- Selecting the fine adjustment and
- Selecting the drying time

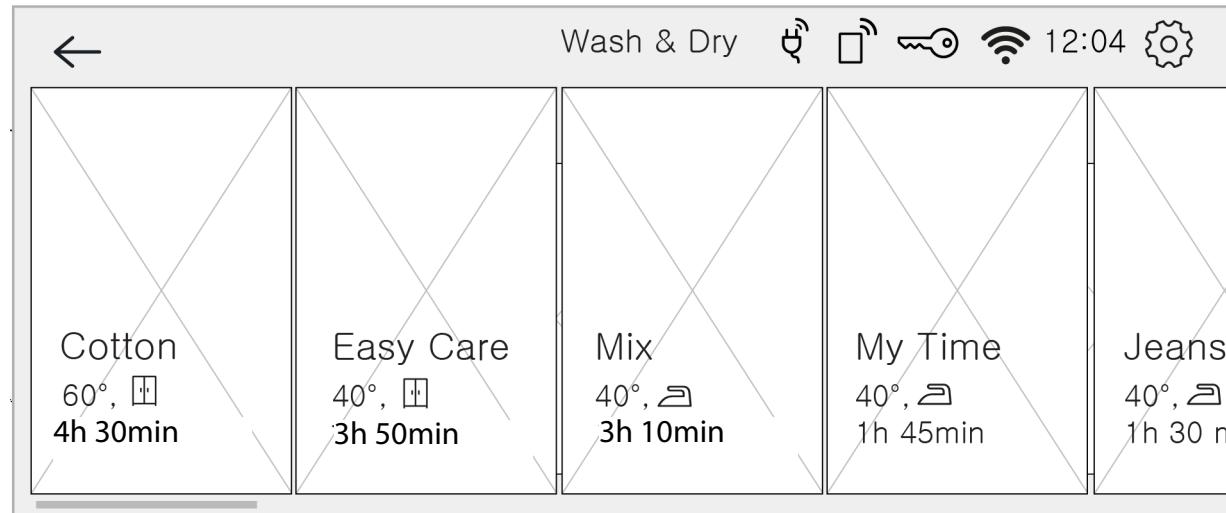
because for all this use cases the user basically determines the duration of the drying process.

The text and the symbols are different for REU & RGC. E.g. in Germany the symbol is representing „Schranktrocken“, in China the symbol is representing „Ready to wear“.

Washer WasherDryer Dryer

Selecting drying target (FA-ID 690)

Program selection screen - Siemens

 not started in work ui reviewed ic team reviewed all reviewed

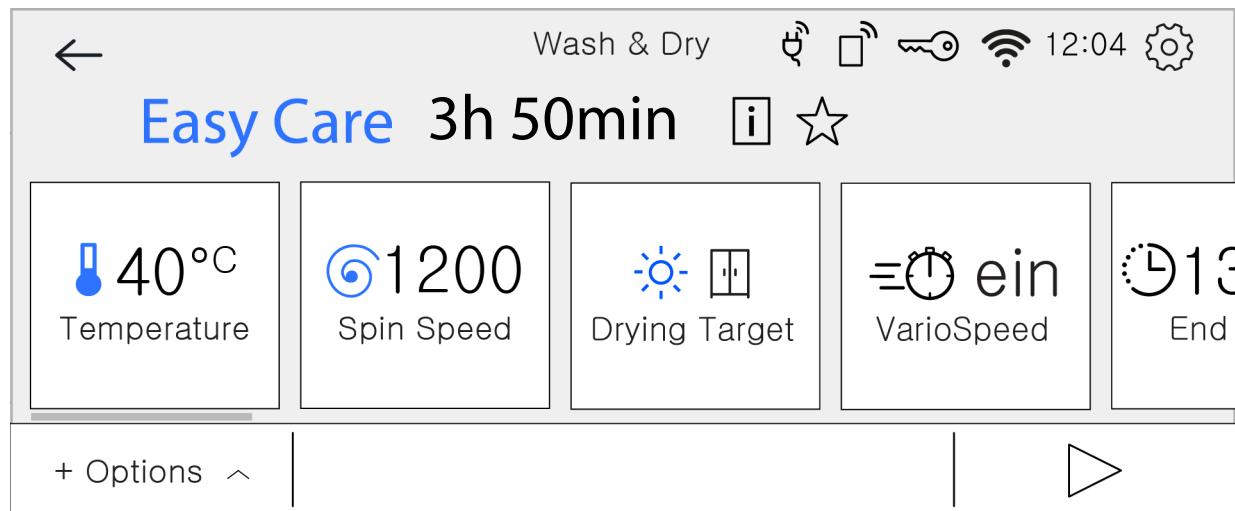
The drying target is a main parameter for washer-dryer and dryer, so it will always be visible at the program selection screen.

Washer WasherDryer Dryer

Selecting drying target (FA-ID 690)

Configure overview of selected program screen - Siemens

not started in work ui reviewed ic team reviewed all reviewed

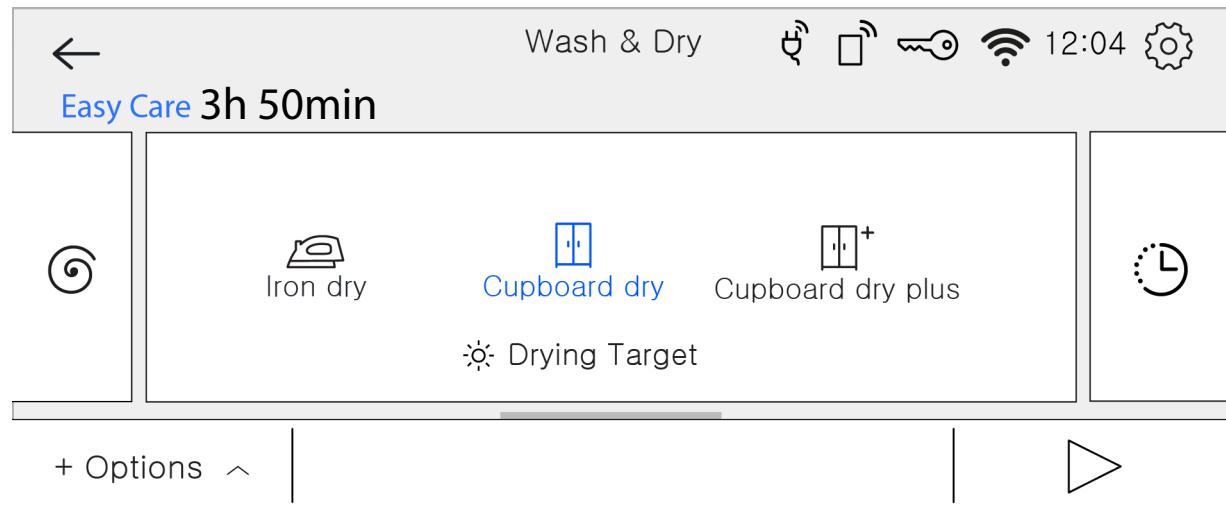


Washer WasherDryer Dryer

Selecting drying target (FA-ID 690)

Configure primary parameter screen - Siemens

not started in work ui reviewed ic team reviewed all reviewed

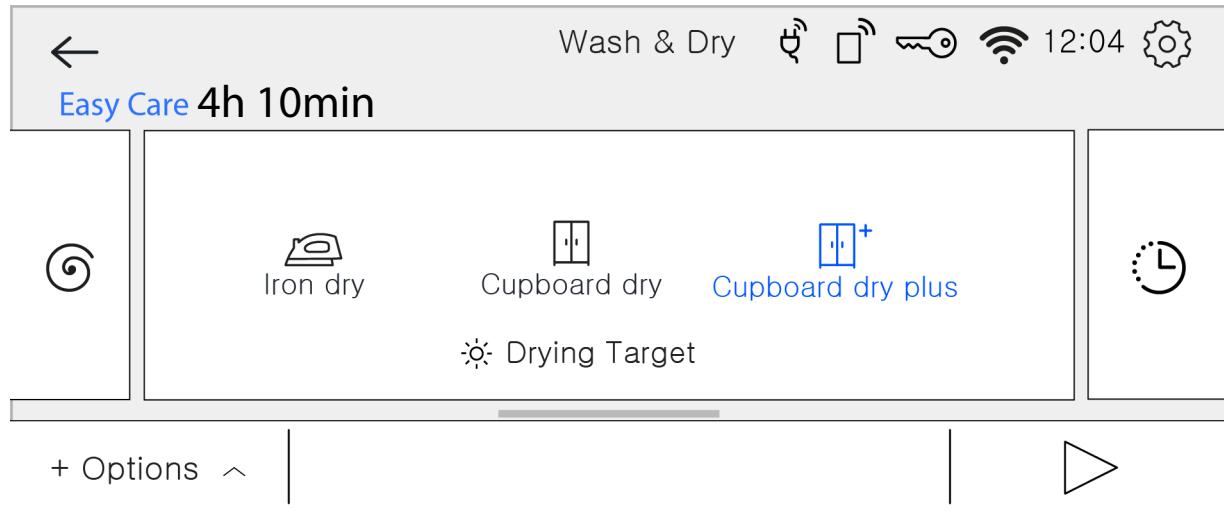


Washer WasherDryer Dryer

Selecting drying target (FA-ID 690)

Configure primary parameter screen - new drying target selected - Siemens

not started in work ui reviewed ic team reviewed all reviewed



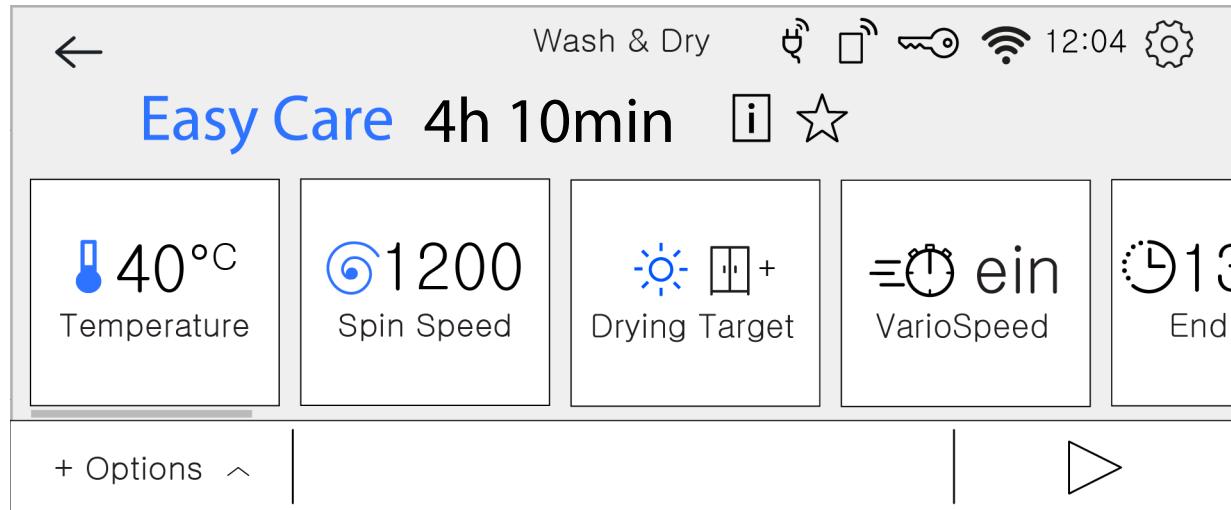
Tap on the back arrow as well as anywhere outside the opened tile will lead to configure primary parameter screen with closed tiles. The value is saved.

Washer WasherDryer Dryer

Selecting drying target (FA-ID 690)

Configure overview of selected program screen - new drying target selected - Siemens

not started in work ui reviewed ic team reviewed all reviewed

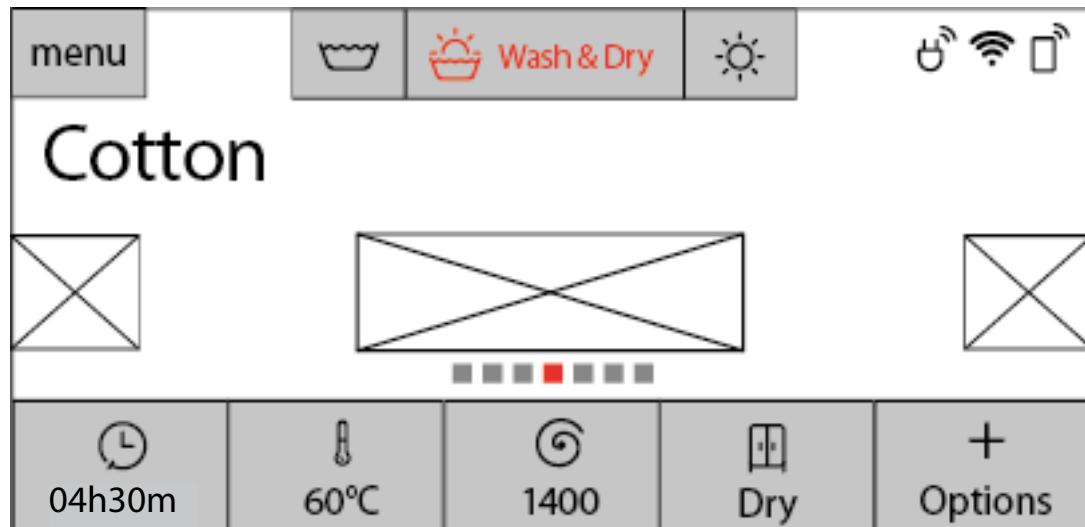


Washer WasherDryer Dryer

Selecting drying target (FA-ID 690)

Program selection screen - Bosch

not started in work ui reviewed ic team reviewed all reviewed



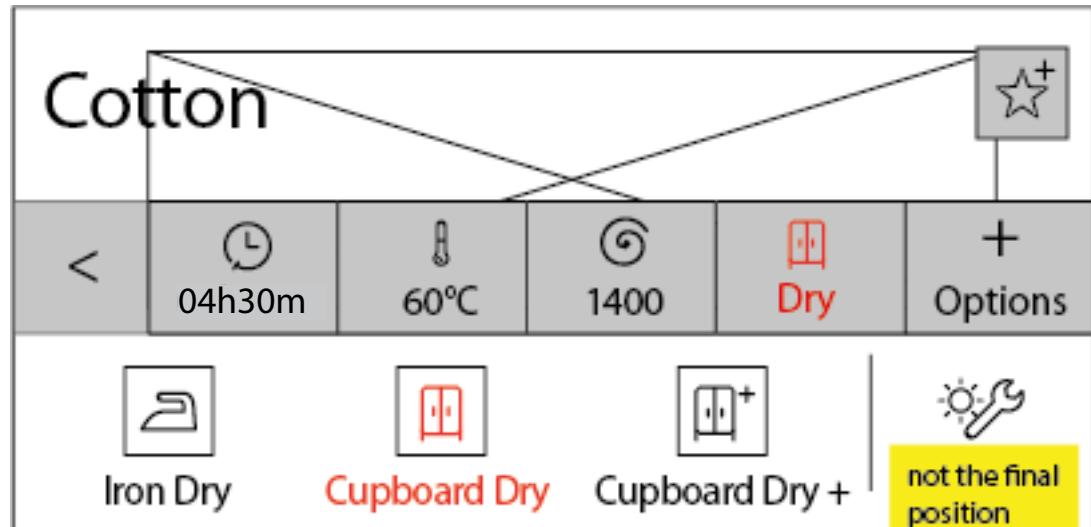
The drying target is a main parameter for washerdryer and dryer, so it will always be visible at the program selection screen.

Washer WasherDryer Dryer

Selecting drying target (FA-ID 690)

Configure primary parameter screen - Bosch

not started in work ui reviewed ic team reviewed all reviewed



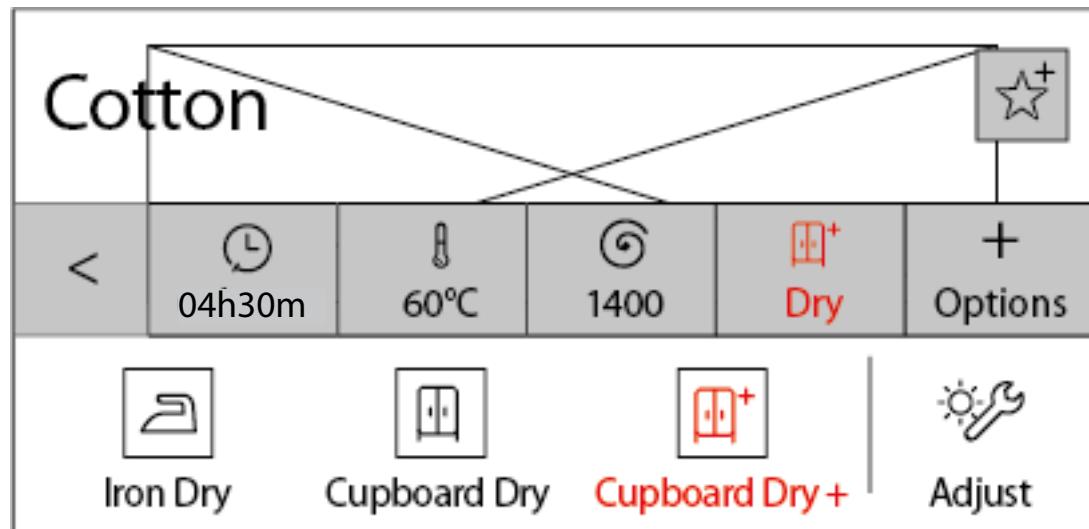
A transparent overlay appears from the bottom of the screen, opening the value selection of drying target parameter. No change of whole screen content, only transparent overlay.

Washer WasherDryer Dryer

Selecting drying target (FA-ID 690)

Configure primary parameter screen - new drying target selected - Bosch

not started in work ui reviewed ic team reviewed all reviewed

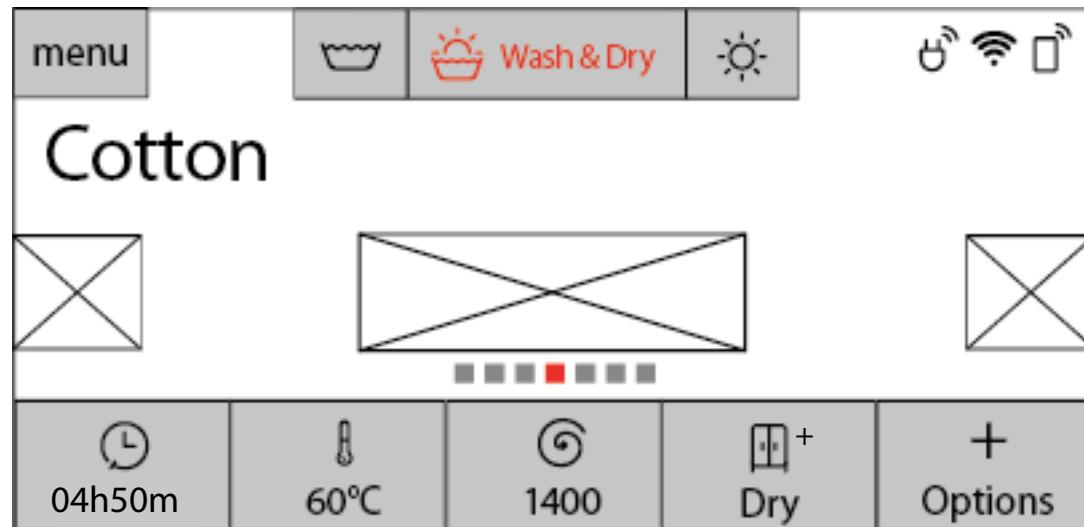


By tapping on the back button OR on the drying target parameter button the value is saved and user returns to program selection screen.

Washer WasherDryer Dryer

Selecting drying target (FA-ID 690)

Program selection screen - new drying target selected- Bosch

 not started in work ui reviewed ic team reviewed all reviewed

Selecting drying time (FA-ID 591)

 not started

 in work

 ui reviewed

 ic team reviewed

 all reviewed

Short Description

When the user selected a variable-time dry program, he can define the drying time by himself.

Selectable values (in 10 min steps):

- 20min (default)

- 30min

- ...

Maximum value must be distinguished according to the kind of appliance:

- T27-OT: 3h 30min

- D22-OT: 2h

Program specific selection

Selection preservation: conditional

Technical Details

Dryer: Because also within the time programs 9 min are already used by basic process, it had been decided, that a minimum selectable drying time of 10min should not be possible.

Washer dryer: The difference between MyTime and MyTime Gentle is drying temperature (20~30 degree).

Use Context

- 1) The user dried his laundry with an automatic program or a fixed time program (e.g. Dessous- moisture is not detected). He is not satisfied with the drying result. He likes to dry his laundry some more minutes.
- 2) He has only a little amount of laundry to dry. Since this will not be detected within an automatic program he uses the time dry function.
- 3) The user has two-layer laundry (e.g. pillow) to dry. Here the automatic programs will also not detect the moisture level sufficient. So he uses the time dry function.
- 4.) The user wants to wear an already worn T-Shirt another day. To loosen it up a little bit, he selects a Cold time dry program that loosens up clothes.

Remarks

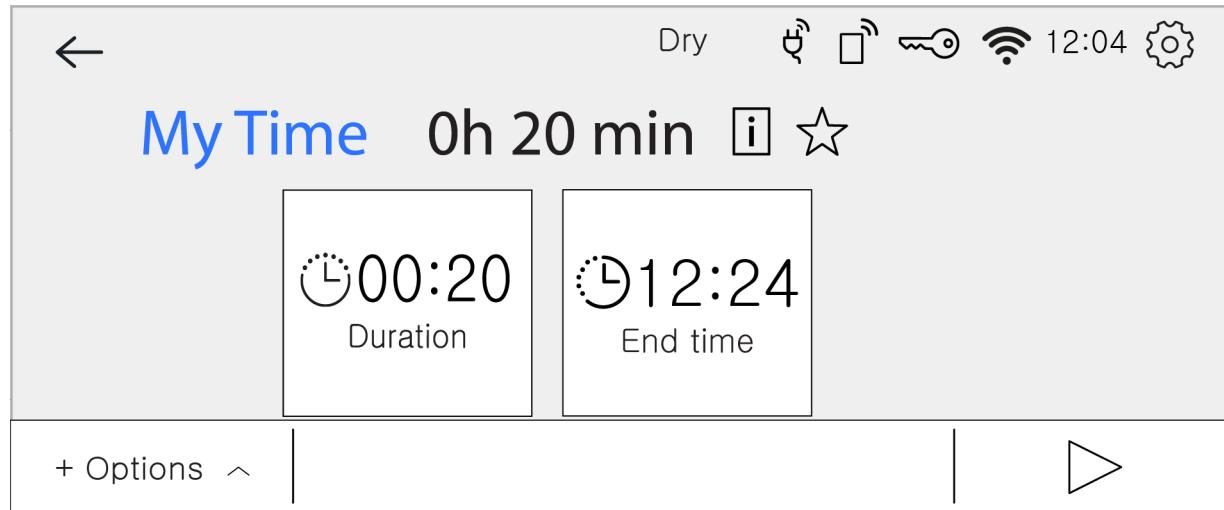
Selecting step of 10 min would be comfortable for the user because: If the laundry is not perfectly dry after an automatic run through, user looks for a SHORT final drying time.

Washer dryer: MyTime is recommended for cotton textiles, MyTime Gentle is recommended for easy care textiles, some special textiles (e.g. Down, Waterproof) are not recommended to use time dry program, due to special treatment need to be used for special textiles (e.g. low temperature).

Washer WasherDryer Dryer

Selecting drying time (FA-ID 591)

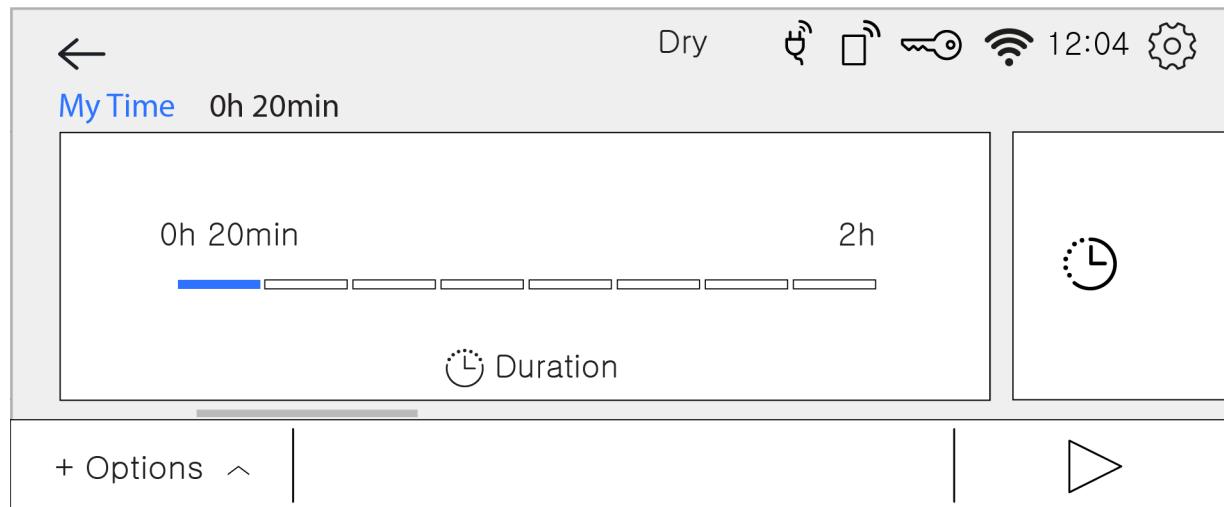
Configure primary parameter screen - Siemens

 not started in work ui reviewed ic team reviewed all reviewed

Washer WasherDryer Dryer

Selecting drying time (FA-ID 591)

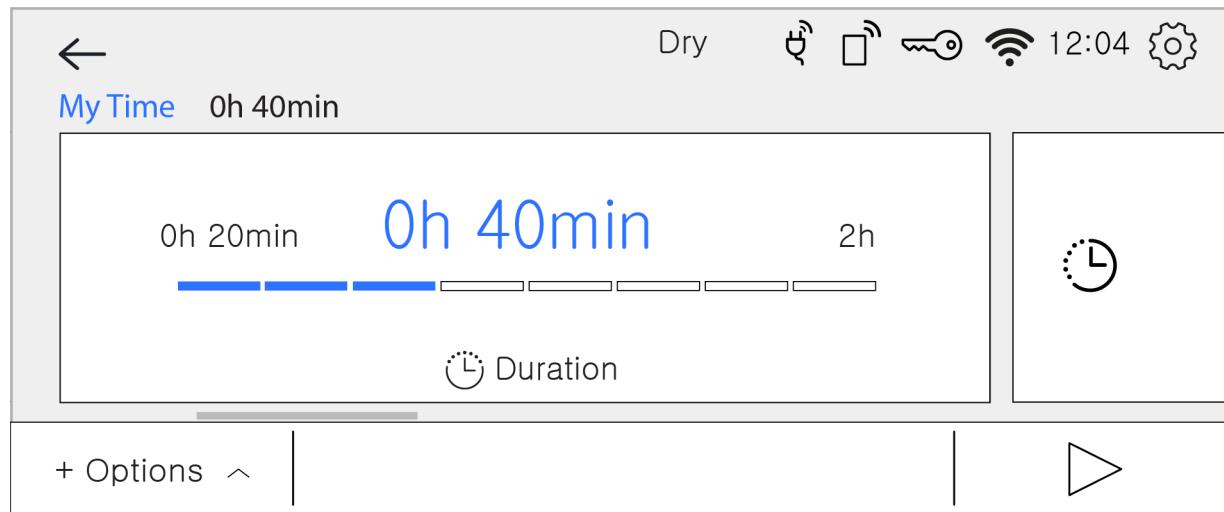
Configure primary parameter screen - Siemens

 not started in work ui reviewed ic team reviewed all reviewed

Washer WasherDryer Dryer

Selecting drying time (FA-ID 591)

Configure primary parameter screen - new drying time selected - Siemens

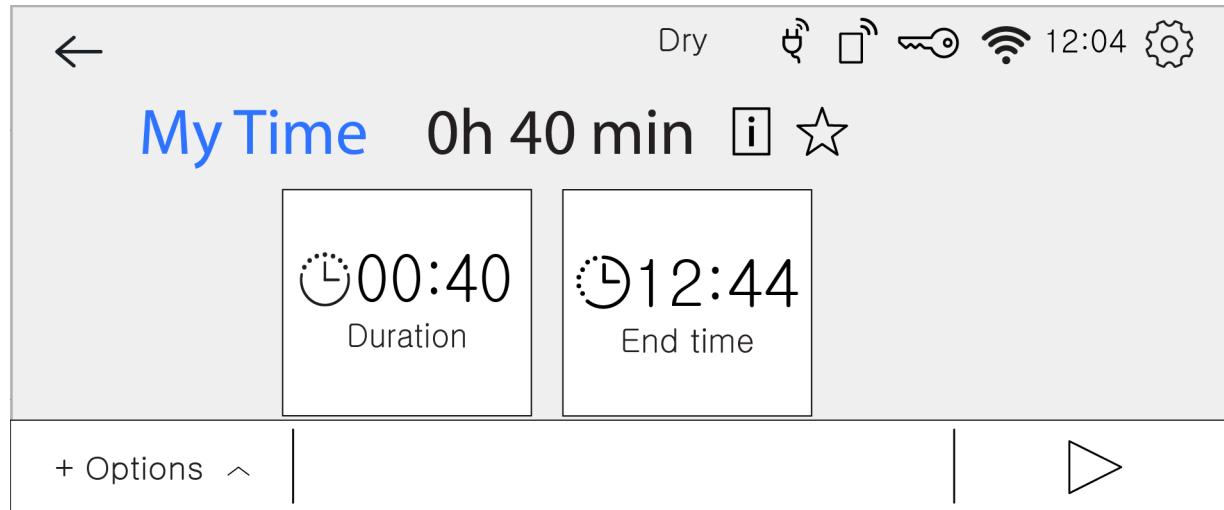
 not started in work ui reviewed ic team reviewed all reviewed

Washer WasherDryer Dryer

Selecting drying time (FA-ID 591)

Configure primary parameter screen - new drying time selected - Siemens

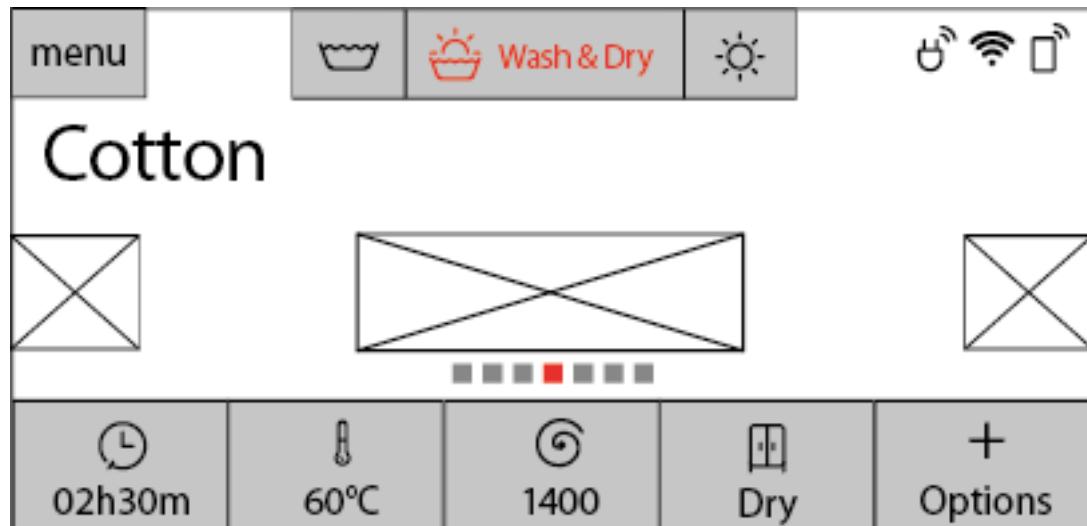
not started in work ui reviewed ic team reviewed all reviewed



Washer WasherDryer Dryer

Selecting drying time (FA-ID 591)

Program selection screen - Bosch

 not started in work ui reviewed ic team reviewed all reviewed

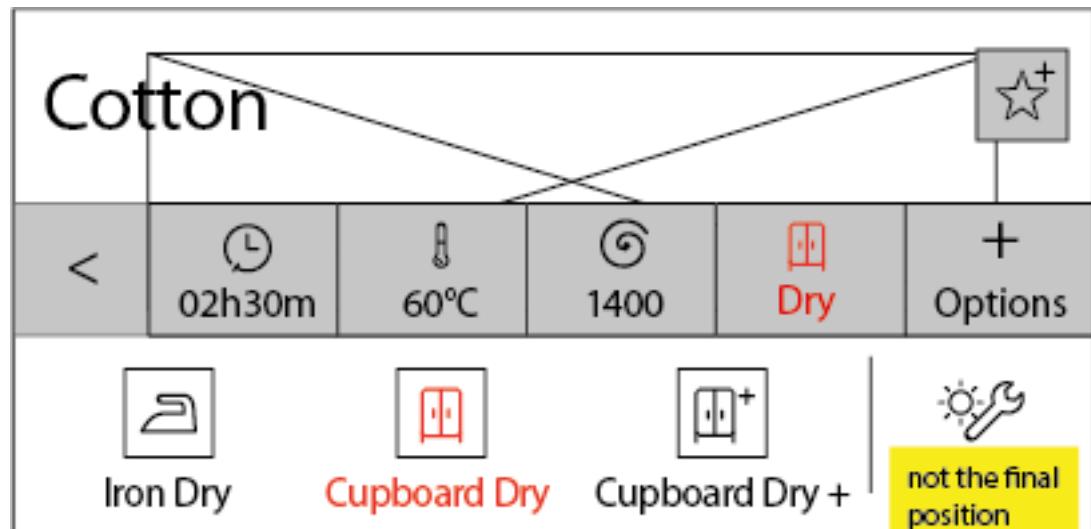
The drying target is a main parameter for washerdryer and dryer, so it will always be visible at the program selection screen

Washer WasherDryer Dryer

Selecting drying time (FA-ID 591)

Configure primary parameter screen - Bosch

not started in work ui reviewed ic team reviewed all reviewed

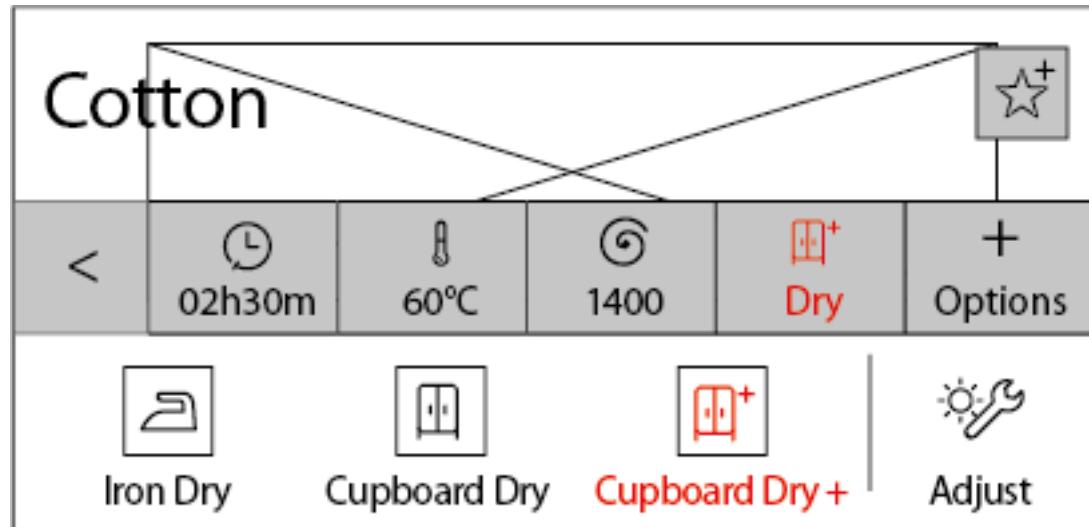


A transparent overlay appears from the bottom of the screen, opening the value selection of drying target parameter. No change of whole screen content, only transparent overlay.

Washer WasherDryer Dryer

Selecting drying time (FA-ID 591)

Configure primary parameter screen - new drying target selected - Bosch

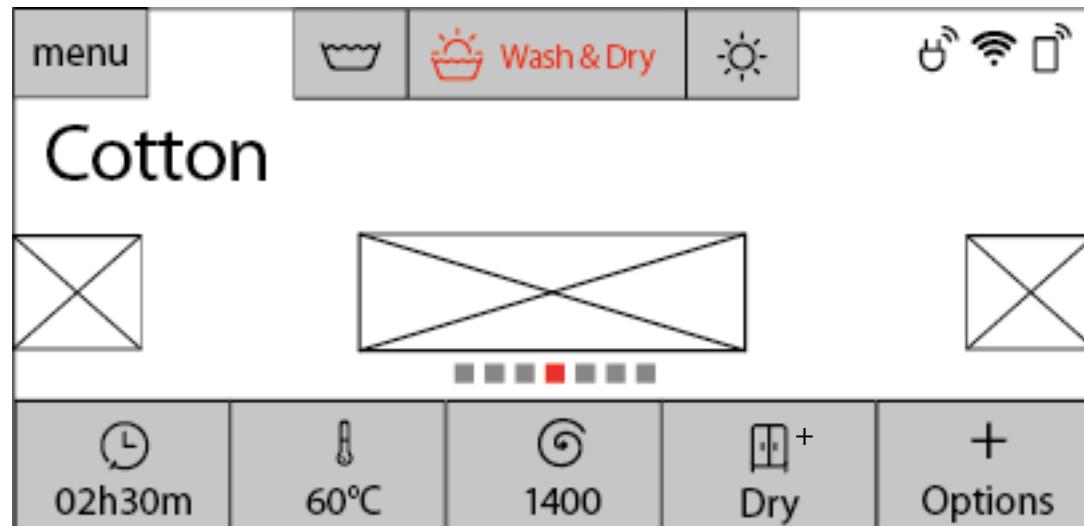
 not started in work ui reviewed ic team reviewed all reviewed

By tapping on the back button OR on the drying target parameter button the value is saved and user returns to program selection screen.

Washer WasherDryer Dryer

Selecting drying time (FA-ID 591)

Program selection screen - new drying target selected- Bosch

 not started in work ui reviewed ic team reviewed all reviewed

Individualize option list

 not started

 in work

 ui reviewed

 ic team reviewed

 all reviewed

Short Description

The option list will be customized automatically according to the usage behaviour for this appliance.

The most used **3 options** for all programs will be displayed in front of the general option list. The other options will follow in alphabetical order afterwards.

For multi-value options, the specific selected value must be preselected, but the option will only occur once.

The most frequently used options are easily accessible for the user. He does not need to swipe through several options to find his favorite one.

At delivery, the highlight features can be displayed as „most frequently used“ options in front of the others. During usage this list will adapt.

Technical Details

Starting from the very first usage, selected options will be arranged in the slot for the most used options. The most used option will be the first, followed by the second most used etc.

An option counts as selected, if a user has started a program with this option.

Use Context

Depending on different individual characteristics, e.g. the living region, household size, climate, kind of dressing style, etc. the options user select vary greatly. But most of the users have a reoccurring individual behavior for treating their laundry. E.g.

1) An user is washing his worn clothes, which are not specifically dirty, every evening. Because he wants the laundry to be finished before he goes to sleep, he always selects the „Speed“ option.

2) A family is caring especially about that no detergent residue will be left on the laundry, which get in touch with the children skin. So for washing children clothes with Cotton program, they will always add 2 additional rinse cycles.

Remarks

Approximately 10-20 additional options will be offered to the user.

A lot of the options are always selectable for the most common programs. In case one option is not selectable for a specific program (e.g. wool, duvet, MyTime), it must be taken out/greyed out within the most used option list .

Multi-value options are e.g.: Rinse plus, Soaking and Stains.

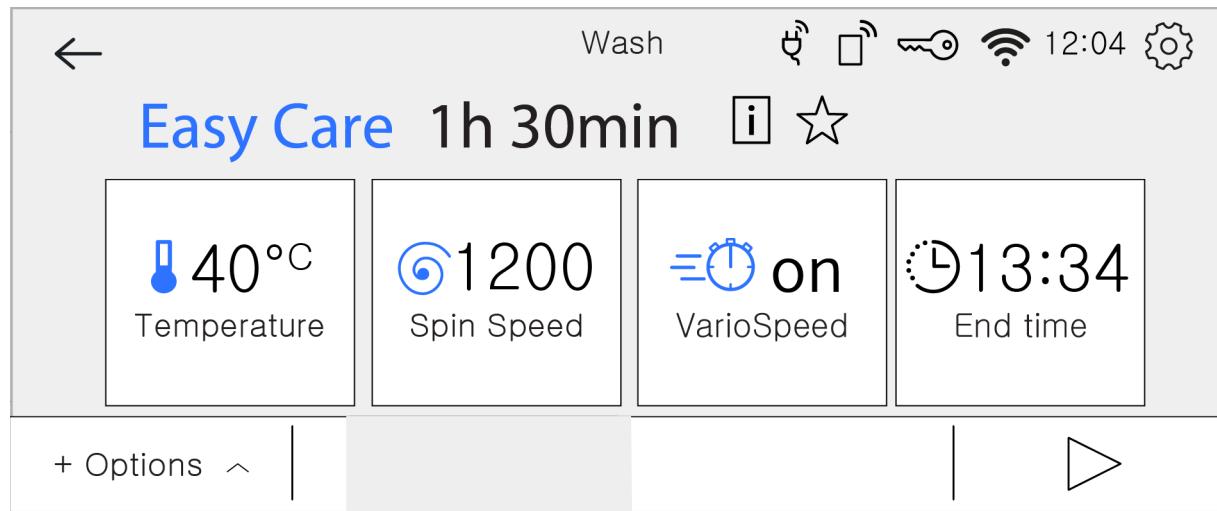
The number of most selected options slot is not defined yet. It is depending on the user behaviour, but also on the visualization.

Washer WasherDryer Dryer

Individualize option list

Configure overview of selected program - (Siemens)

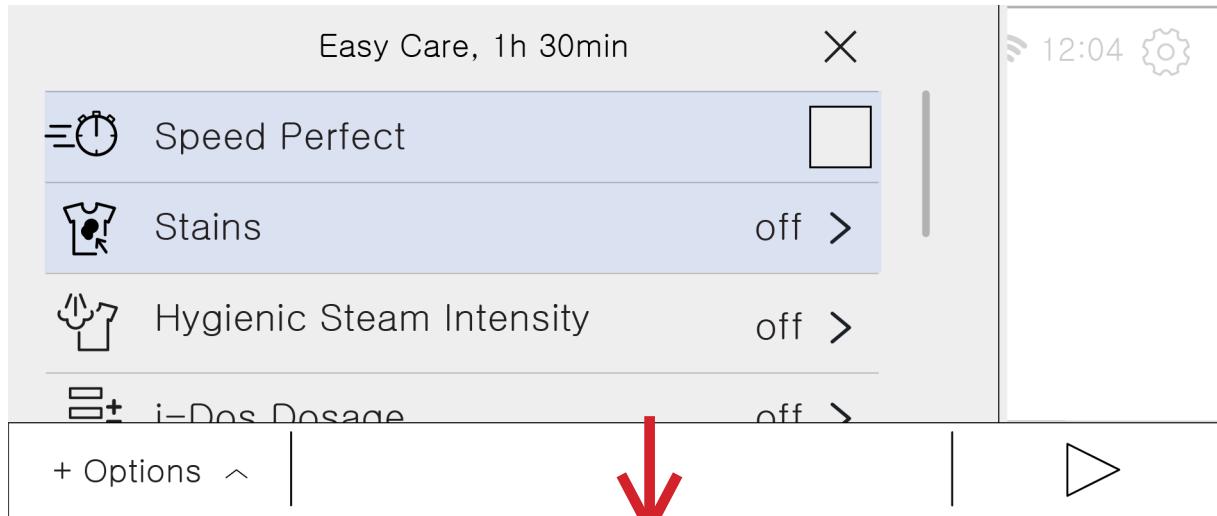
not started in work ui reviewed ic team reviewed all reviewed



Individualize option list

Configure additional options screen - (Siemens)

not started in work ui reviewed ic team reviewed all reviewed



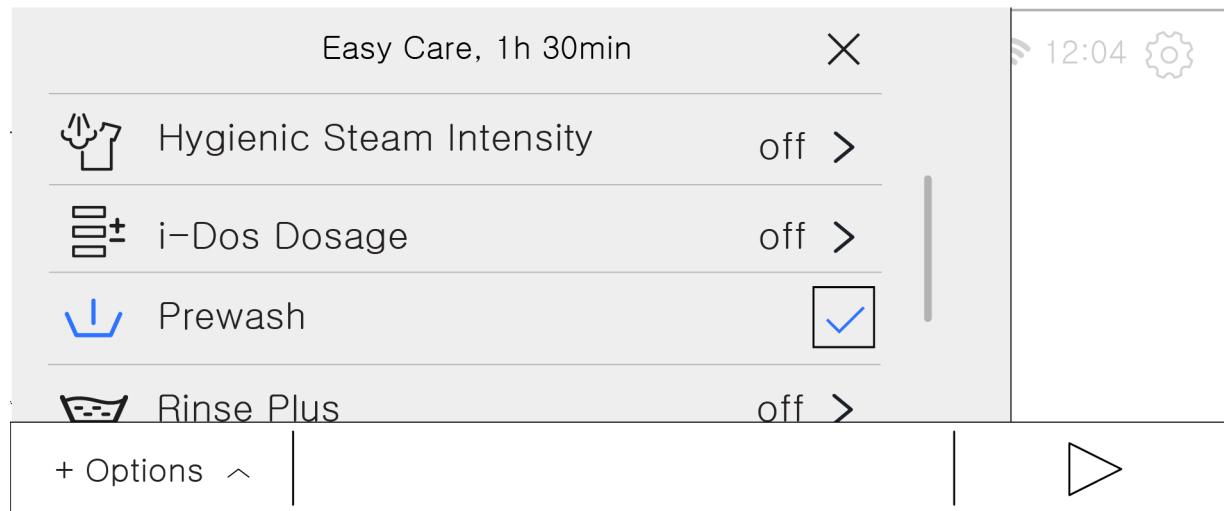
The option list contains of

- the most selected options, sorted by frequency of use (**3 slots available**)
- all other option in alphabetical order

Example screen: Speed and Stains were selected by the user e.g. 5 & 4 times.

Individualize option list

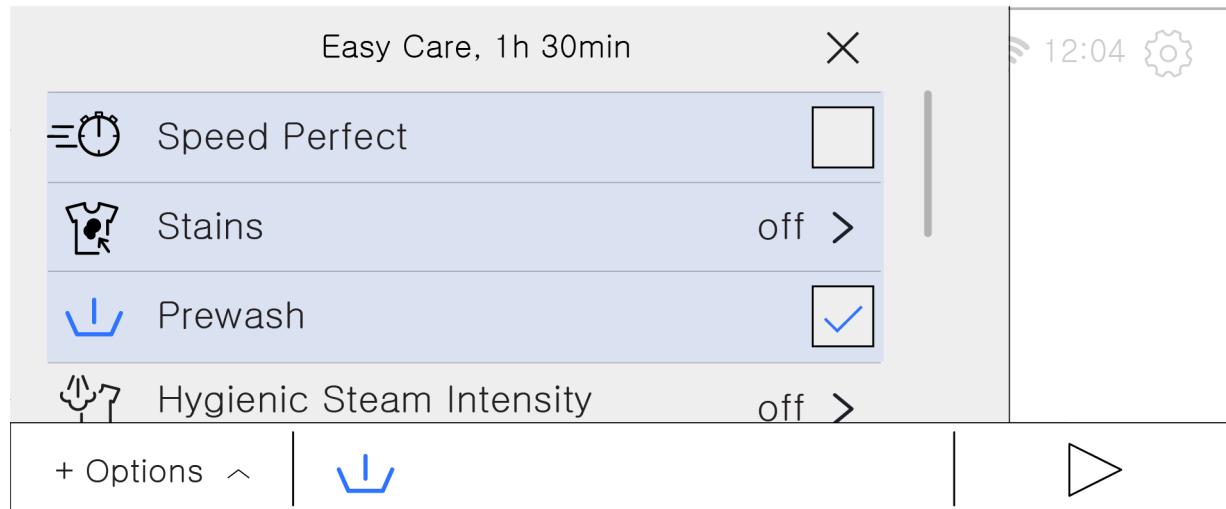
Configure additional options screen - (Siemens)

 not started in work ui reviewed ic team reviewed all reviewed

Example screen: user selects Prewash.

Individualize option list

Configure additional options screen - (Siemens)

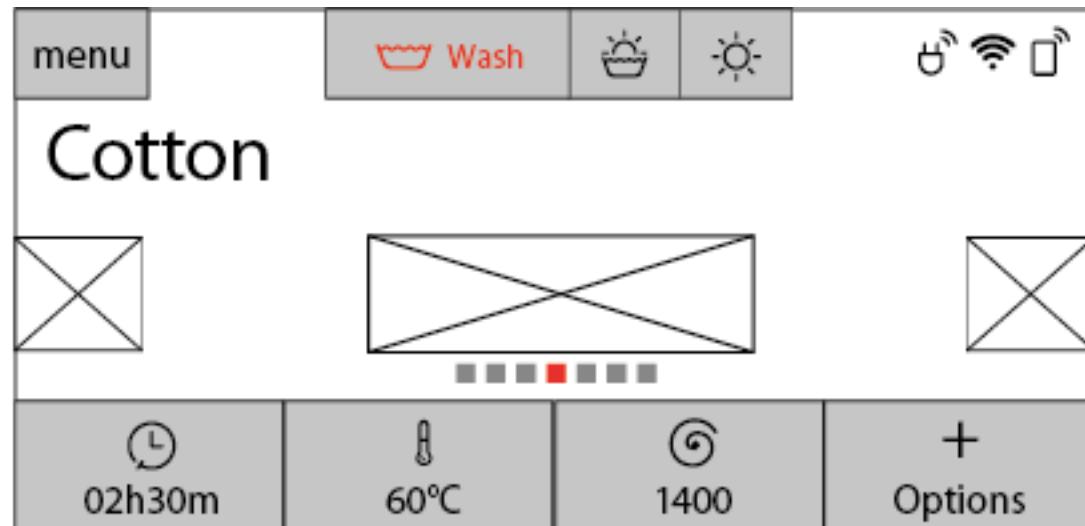
○ not started ○ in work ● ui reviewed ○ ic team reviewed ○ all reviewed

Example screen: Prewash is the 3rd most used option and for that reason on position 3 within the most used options.

Washer WasherDryer Dryer

Individualize option list

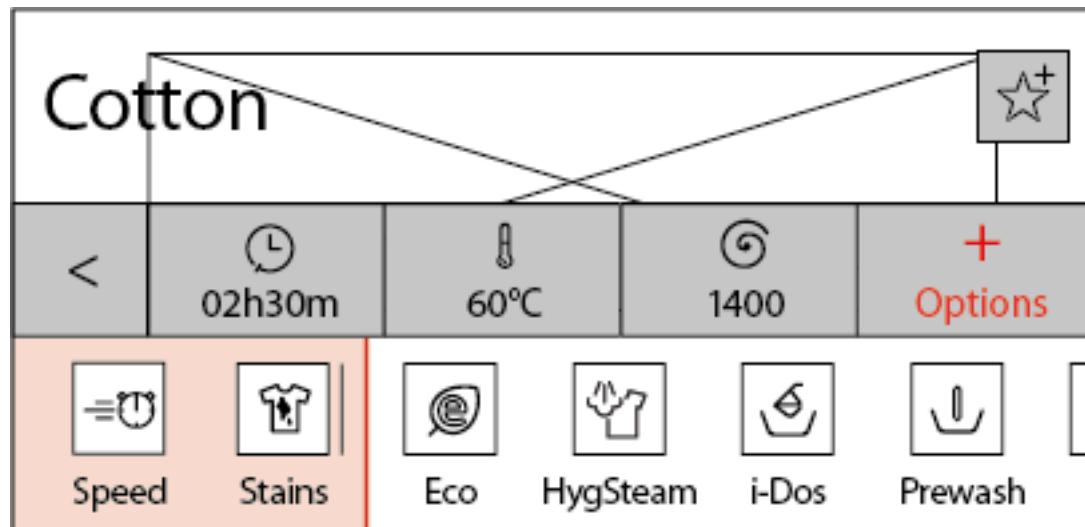
Program selection screen - (Bosch)

 not started in work ui reviewed ic team reviewed all reviewed

Individualize option list

Configure additional options screen - (Bosch)

not started in work ui reviewed ic team reviewed all reviewed



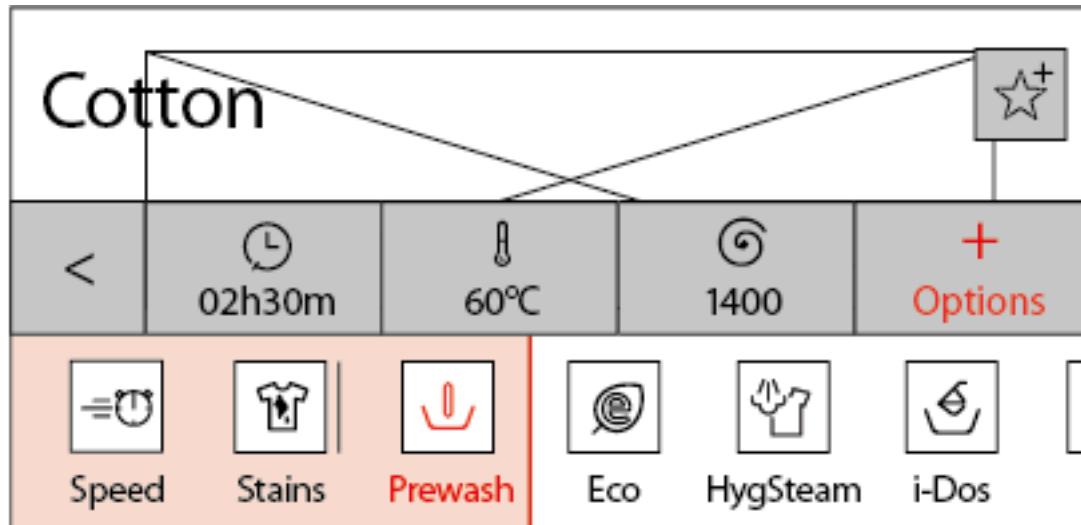
The option list contains of

- the most selected options, sorted by frequency of use (3 slots available)
- all other option in alphabetical order

Example screen: Speed and Stains were selected by the user e.g. 5 & 4 times.
User selects Prewash.

Individualize option list

Configure additional options screen - (Bosch)

○ not started ○ in work ● ui reviewed ○ ic team reviewed ○ all reviewed


Example screen: Prewash is the 3rd most used option and for that reason on position 3 within the most used options.

Reporting remaining time (FA-ID 790)

 not started

in work

 ui reviewed

 ic team reviewed

 all reviewed

Short Description

This feature contains the following indications:

Duration: Predicted program duration before the program has started.
E.g. 3h 20min

Remaining time: Calculated remaining program duration after program has started. E.g. 2h 57min

Delayed start time (with real start time): The time when the program starts after a delayed start was chosen. E.g. "Start at 12:00
„Start in 2 h“ (without real time)

Finish time (with real start time):
The time when the program will be finished. (Real finish time = Real start time + Duration). Applies for normal start and delayed start.
E.g. "Finished at 13:30"
„Finished in 2 h“ (without real time)

Technical Details

Use Context

Remarks

1) After the user selects cotton program, the duration of the program will be displayed. Because he is in a hurry, he chooses another suitable program with a shorter duration

2) Some time after starting a program the user wants to leave home for a short term appointment. But he wants to take out the wet laundry before. Just a short view on the display shows him the remaining time of running program.

3) The user wants the laundry to be finished when he comes home in the evening. He chooses delayed start via finish time „Finished at 19:00“. The display shows him also the delayed start time via „Start at 15:40“.

IF no real time is set:
One format defined per brand
e.g. Bosch 01h33m
e.g. Siemens 1h 33min

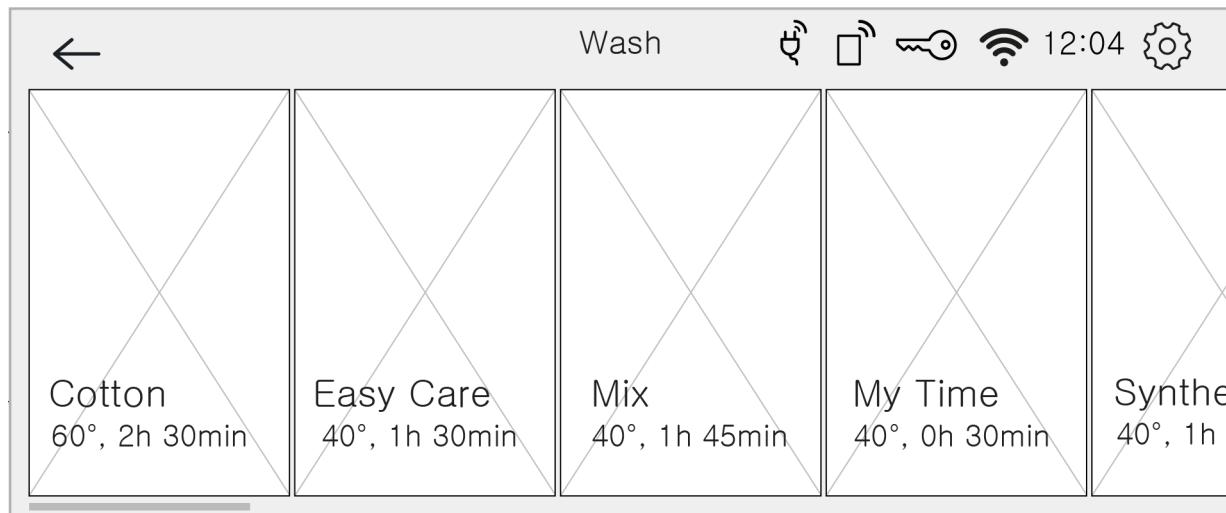
IF real time is set:
Start washing at
e.g 00:35
e.g. 12.35 am

Washer WasherDryer Dryer

Reporting remaining time (FA-ID 790)

Program selection screen (Siemens)

not started in work ui reviewed ic team reviewed all reviewed



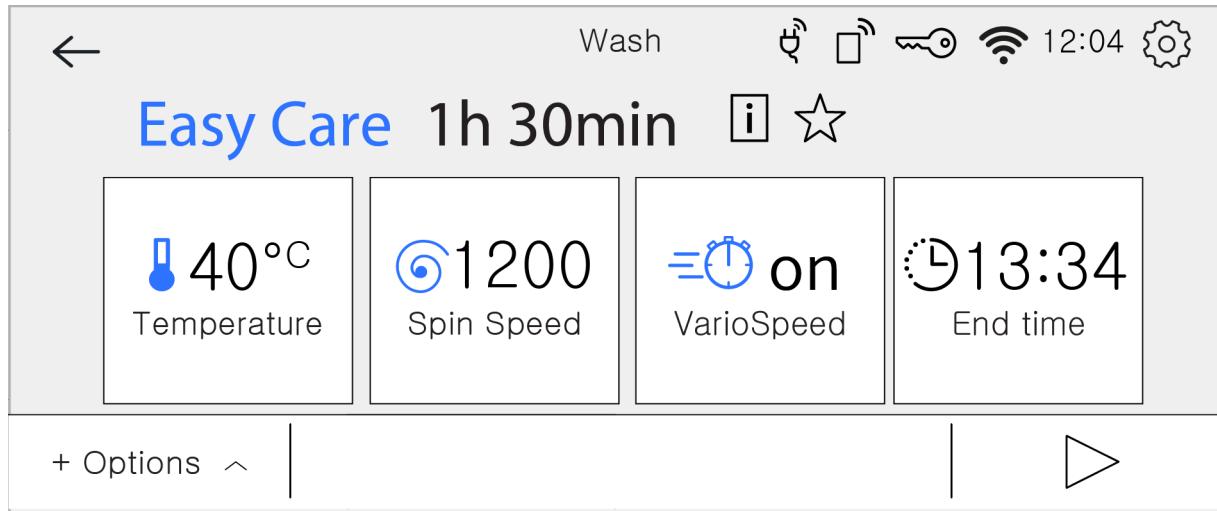
The program selection screen reports the remaining time of each program in every program tile. The time format is 0h 00min.

Washer WasherDryer Dryer

Reporting remaining time (FA-ID 790)

Configure overview of selected program screen (Siemens)

not started in work ui reviewed ic team reviewed all reviewed



The configure overview of selected program screen reports the remaining time and the finish time of a selected program. If real time clock is activated, the finished at is displayed in the format 00:00.

It must be clearly differentiated visually if delayed start is active or not (e.g. via different symbol)

● Washer ● WasherDryer ● Dryer

Reporting remaining time (FA-ID 790)

Configure additional parameter screen (Siemens)

○ not started

○ in work

● ui reviewed

○ ic team reviewed

○ all reviewed



The additional parameter screen reports duration time of a selected program.

UI 49 (Requirement)

The user must be able to recognize immediately how any change in parameters influences other parameters. E.g. selecting a higher temperature changes the estimated program duration. The influence on the program duration must be visible

● Washer ● WasherDryer ● Dryer

Reporting remaining time (FA-ID 790)

Running screen close-up view (Siemens)

○ not started ○ in work ● ui reviewed ○ ic team reviewed ○ all reviewed



If real time clock is activated, the running screens (close-up view and distant view) are reporting the end time in „Finished at“ (00:00) format.

If the real time clock is not activated, the end time will be displayed in „Finished in“ (2h, 3h, 4h...) format.

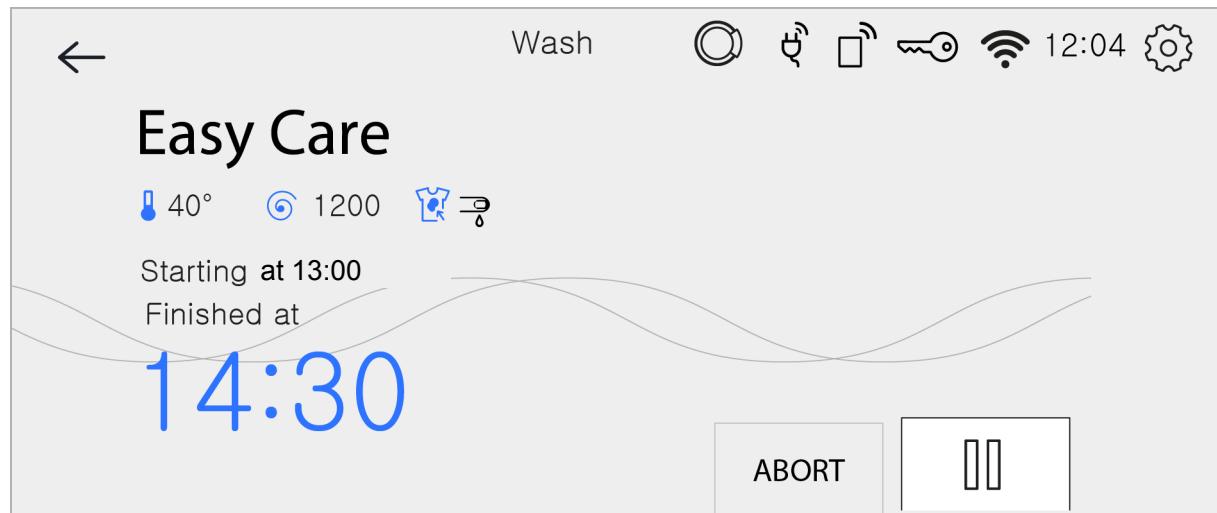
Distant view is still in progress (Nov 2017)

Washer WasherDryer Dryer

Reporting remaining time (FA-ID 790)

Delayed start running screen (Siemens)

not started in work ui reviewed ic team reviewed all reviewed



The delayed start running screen reports the „Starting in“ time (00h 00min).

If real time clock is activated, the start and end time will be displayed in „Finished at“ (14:30, 15:30, 16:30) format.

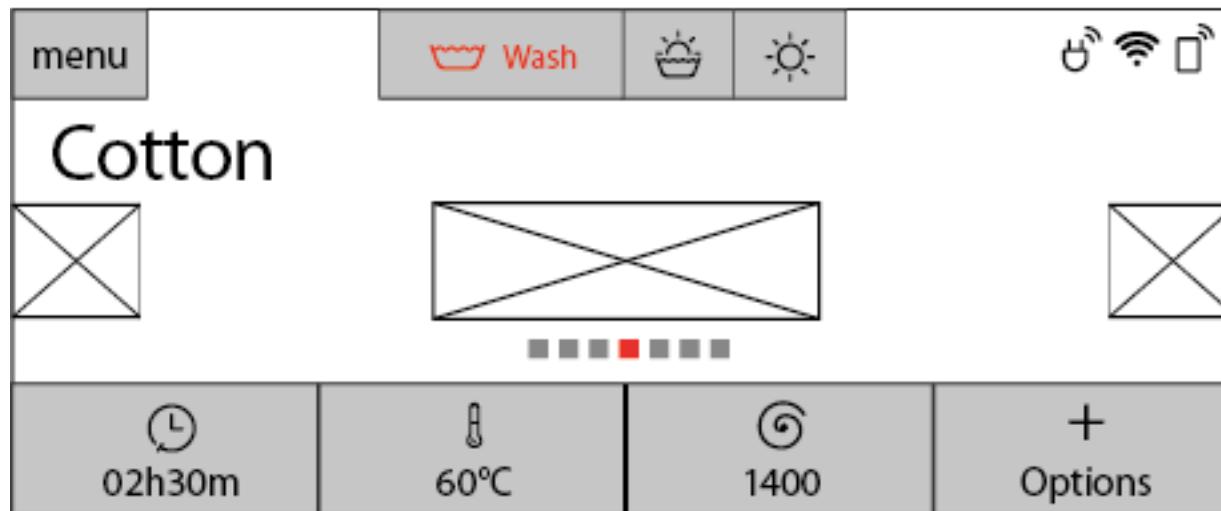
If the real time clock is not activated, the start end time will be displayed in „Finished in“ (2h, 3h, 4h...) format.

Washer WasherDryer Dryer

Reporting remaining time (FA-ID 790)

Program selection screen (Bosch)

not started in work ui reviewed ic team reviewed all reviewed



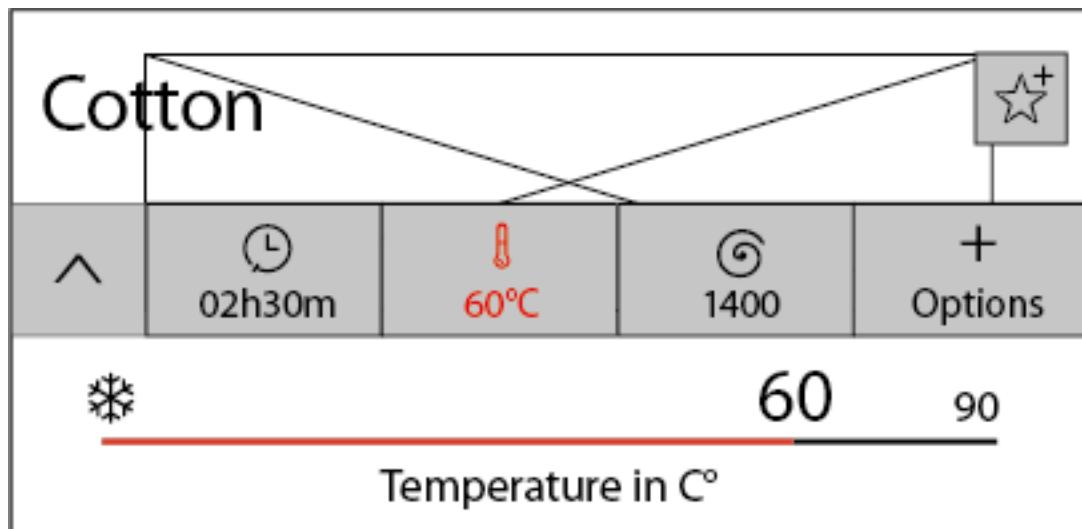
The duration of a program is one of the primary parameters and displayed within the primary parameters line. The format is 00h00m.

Washer WasherDryer Dryer

Reporting remaining time (FA-ID 790)

Configure primary parameter screen (Bosch)

not started in work ui reviewed ic team reviewed all reviewed



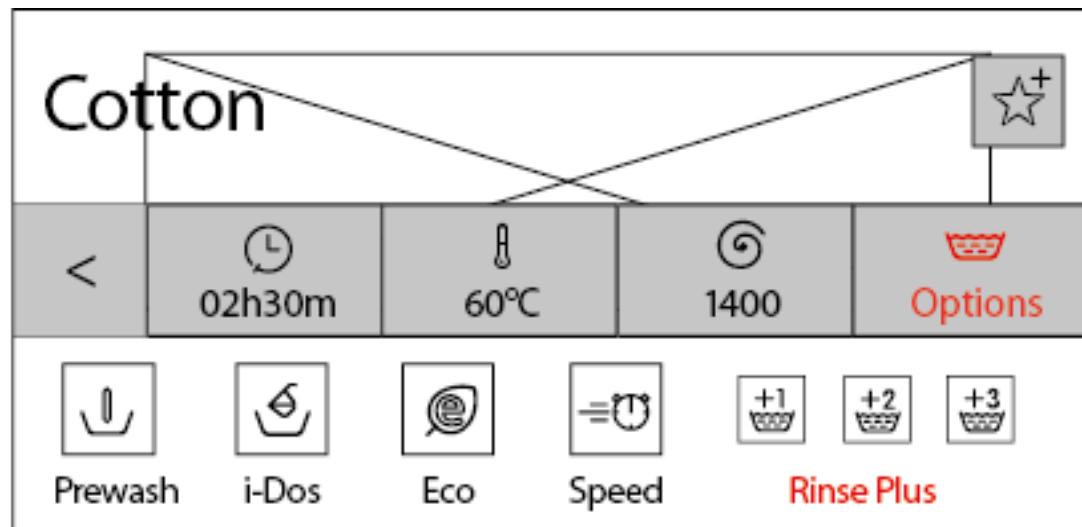
The configure primary parameter screen reports the duration of a selected program (00h00m).

Washer WasherDryer Dryer

Reporting remaining time (FA-ID 790)

Configure additional parameter screen (Bosch)

not started in work ui reviewed ic team reviewed all reviewed



The configure additional parameter screen reports the duration of a selected program (00h00m).

UI 49 (Requirement)

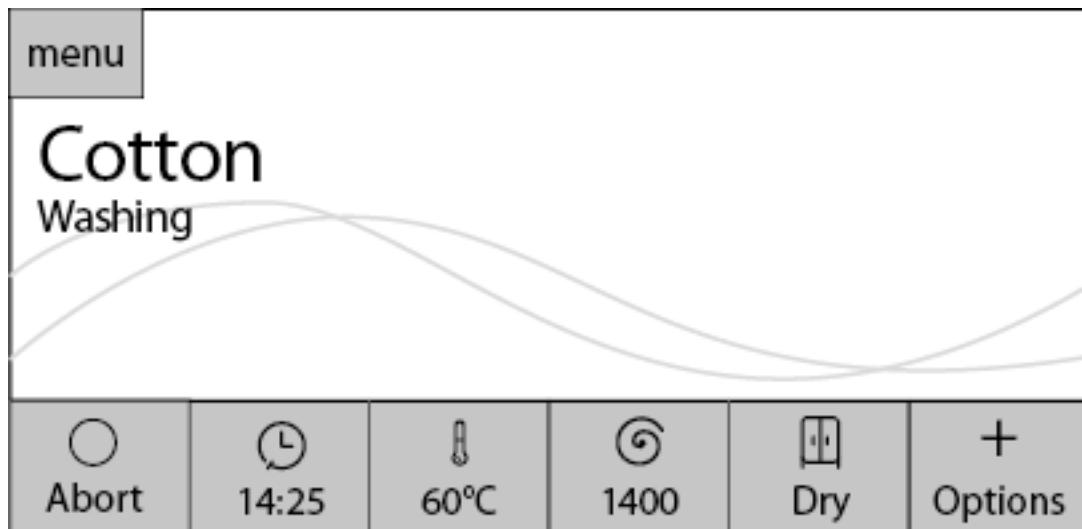
The user must be able to recognize immediately how any change in parameters influences other parameters. E.g. selecting a higher temperature changes the estimated program duration. The influence on the program duration must be visible

Washer WasherDryer Dryer

Reporting remaining time (FA-ID 790)

Running screen close-up view (Bosch)

not started in work ui reviewed ic team reviewed all reviewed



If real time clock is activated, the running screen (close-up view and distant view) are reporting the end time in 00:00 format.

If the real time clock is not activated, the end time will be displayed in 2h00m, 3h00m, 4h00m... format.

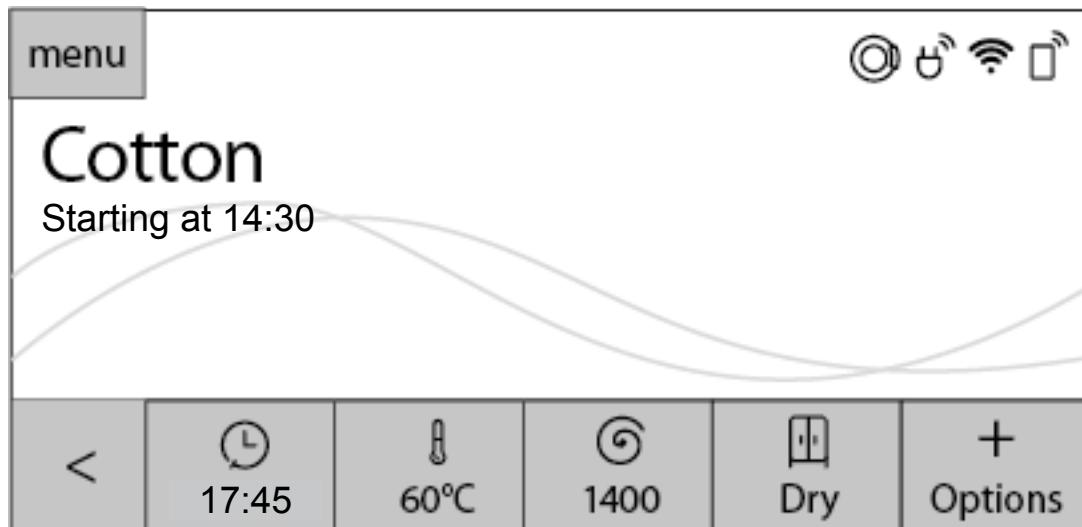
Distant view is still in progress (Nov 2017)



Reporting remaining time (FA-ID 790)

Delayed start running screen (Bosch)

not started in work ui reviewed ic team reviewed all reviewed



The delayed start running screen has to report the „Starting in“ time (00h00min). Position is still in progress (Dec 2017) tbd

If real time clock is activated, the start and end time will be displayed in 14:30, 15:30, 16:30 format.

If the real time clock is not activated, the start and end time will be displayed in 2h00m, 3h00m, 4h00m... format.

Selecting prewash (FA-ID 570.1)

 not started in work ui reviewed ic team reviewed all reviewed

Short Description

With selecting the prewash option, the additional prewash phase will be added and the remaining time will be increased.

Prewash selectable values: on, off

Prewash default values: off

Selection preservation: Conditional and program specific

Technical Details

Prewash option is an on/off option. 15 min long prewash phase after start of program (water temperature around 30°).

Between prewash and normal washing cycle the laundry there is a spin and drain phase.

For prewash, dosing of detergent into both detergent chambers are needed.

For selection, the appliance must be in the ready, pause, delayed or program running start.

In program running or pause state, the state must allow Prewash selection (actual only allowed fogging phase in Hygienic Steam appliances). Which process state is allowed is defined in the statetab.

Use Context

In case of heavily soiled laundry, the user wants to add a prewash cycle.

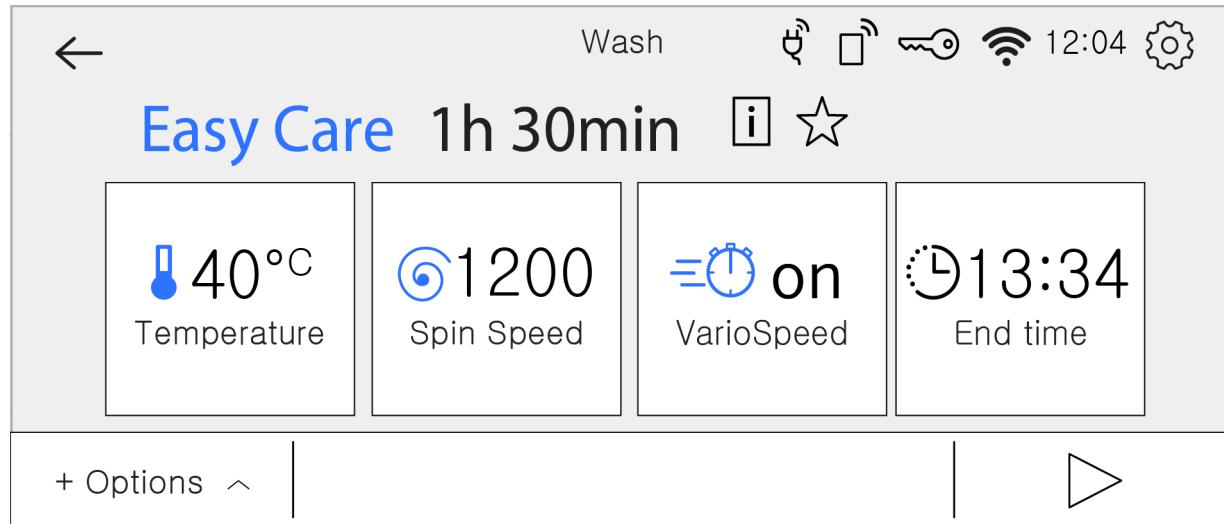
Remarks

Default selection of prewash option is program specific and defined in the UPS.

Washer WasherDryer Dryer

Selecting prewash (FA-ID 570.1)

Configure primary parameter screen - Open options menu - Siemens

 not started in work ui reviewed ic team reviewed all reviewed

● Washer ● WasherDryer ○ Dryer

Selecting prewash (FA-ID 570.1)

Configure additional options screen - select prewash - Siemens

○ not started ○ in work ● ui reviewed ○ ic team reviewed ○ all reviewed



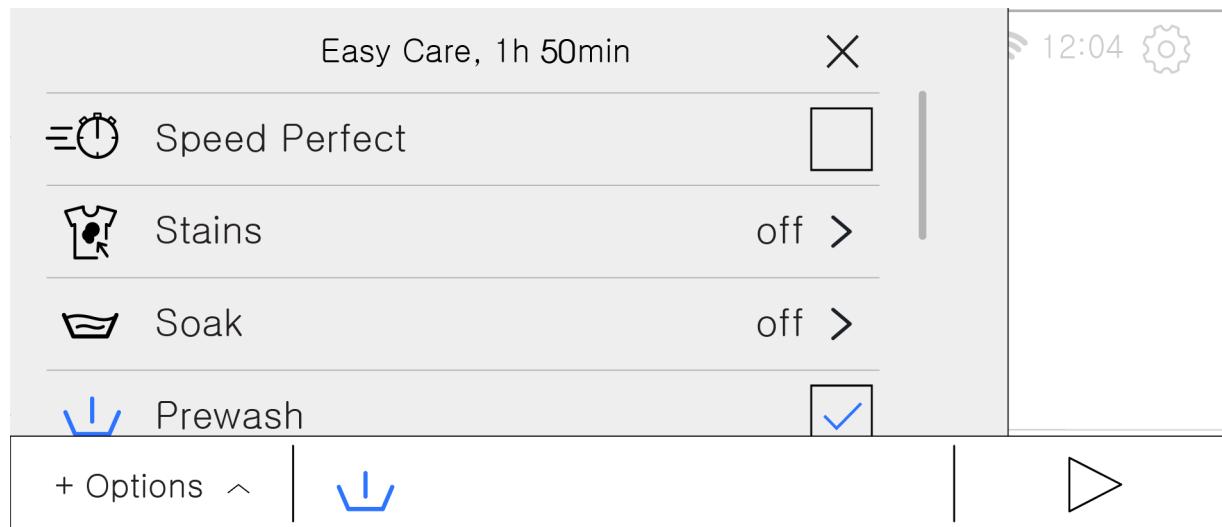
The options menu will overlay on the configure primary parameter screen.

Washer WasherDryer Dryer

Selecting prewash (FA-ID 570.1)

Configure additional options screen - select prewash - Siemens

not started in work ui reviewed ic team reviewed all reviewed



The selected option (Prewash) will be displayed next to the Options button.

The remaining time will be updated.

UI requirement:

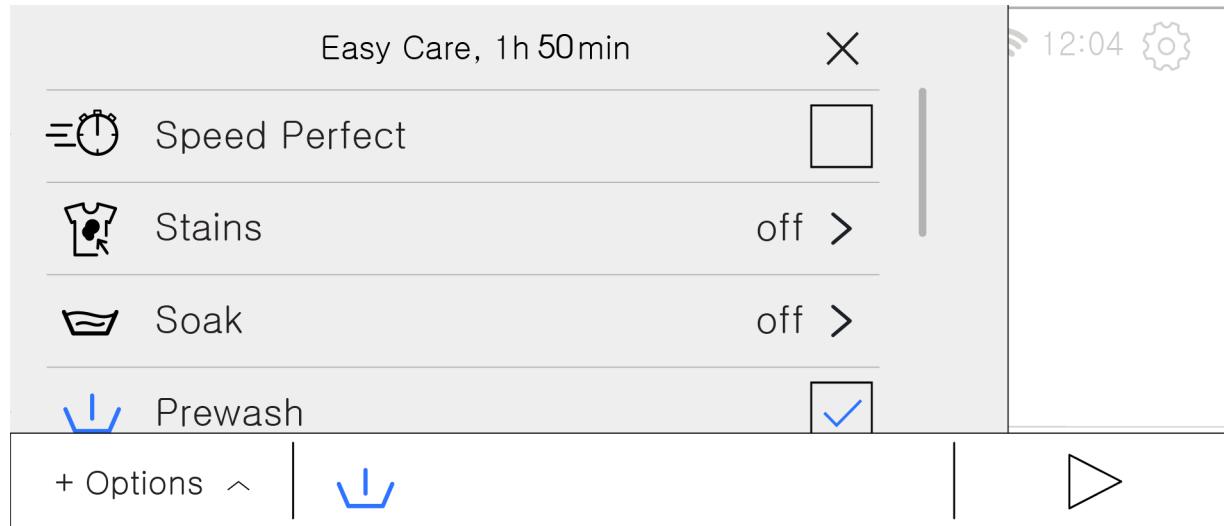
For each task the user must be given a result evaluation/reliable feedback about the completion and success of his actions (UI No.5).

● Washer ● WasherDryer ○ Dryer

Selecting prewash (FA-ID 570.1)

Configure additional options screen - Close options menu - Siemens

○ not started ○ in work ● ui reviewed ○ ic team reviewed ○ all reviewed

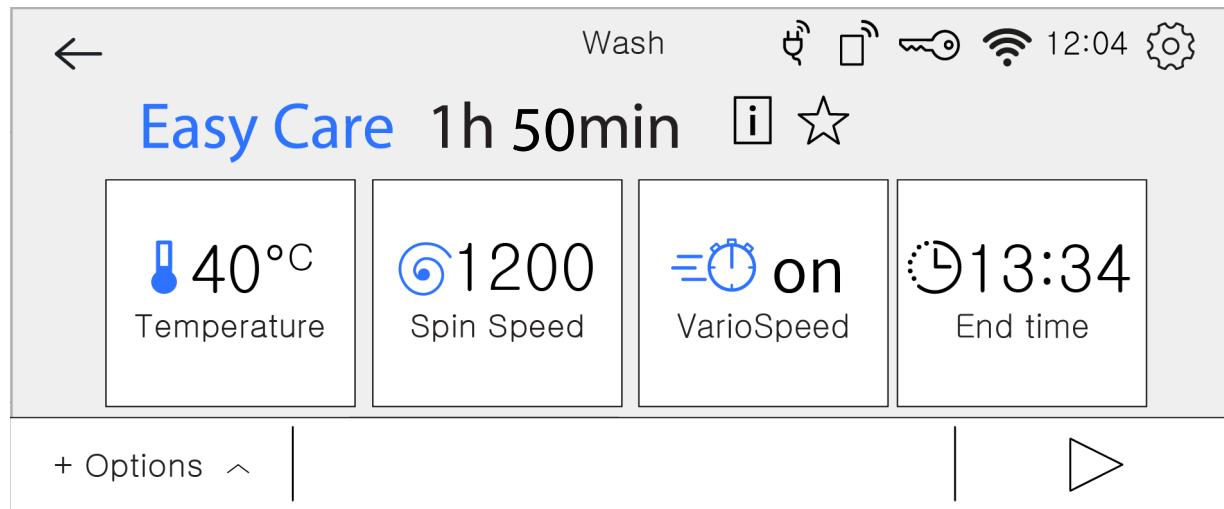


The user can close this menu and go back to the screen before via click on „X“ or touch the background.

Washer WasherDryer Dryer

Selecting prewash (FA-ID 570.1)

Configure primary parameter screen - Start program - Siemens

 not started in work ui reviewed ic team reviewed all reviewed

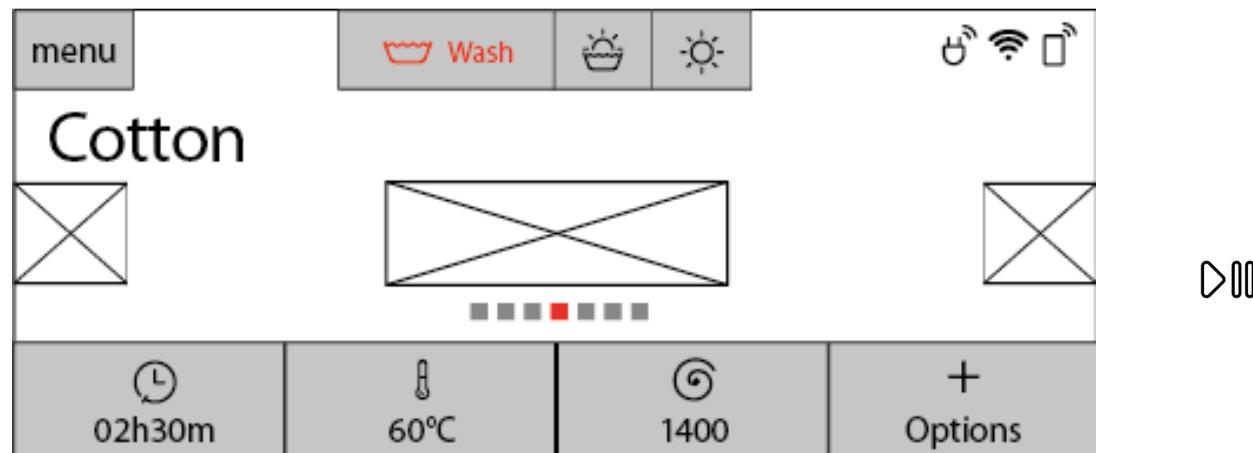
Press start to continue.

Washer WasherDryer Dryer

Selecting prewash (FA-ID 570.1)

Configure primary parameter screen - Open options menu - Bosch

not started in work ui reviewed ic team reviewed all reviewed

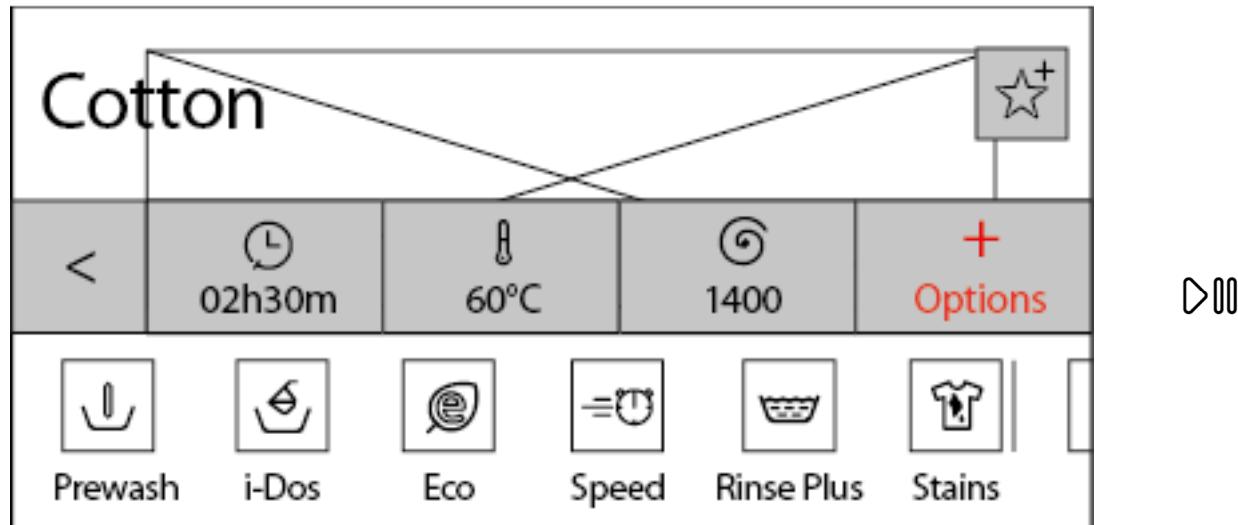


Washer WasherDryer Dryer

Selecting prewash (FA-ID 570.1)

Configure additional options screen - Select prewash - Bosch

not started in work ui reviewed ic team reviewed all reviewed

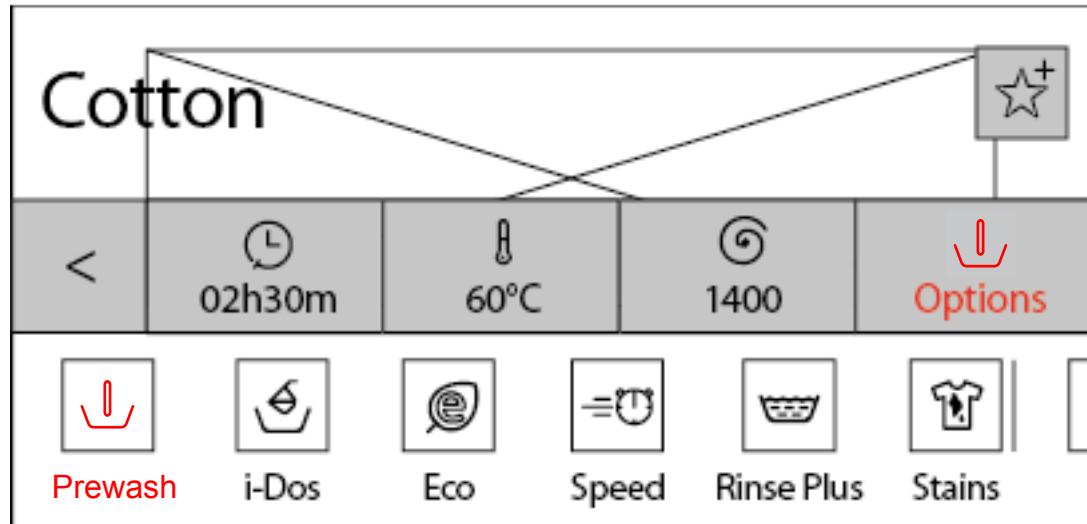


Washer WasherDryer Dryer

Selecting prewash (FA-ID 570.1)

Configure additional options screen - Select prewash - Bosch

not started in work ui reviewed ic team reviewed all reviewed



The selected option (Prewash) will be shown on the Options button.

The remaining time will be updated.

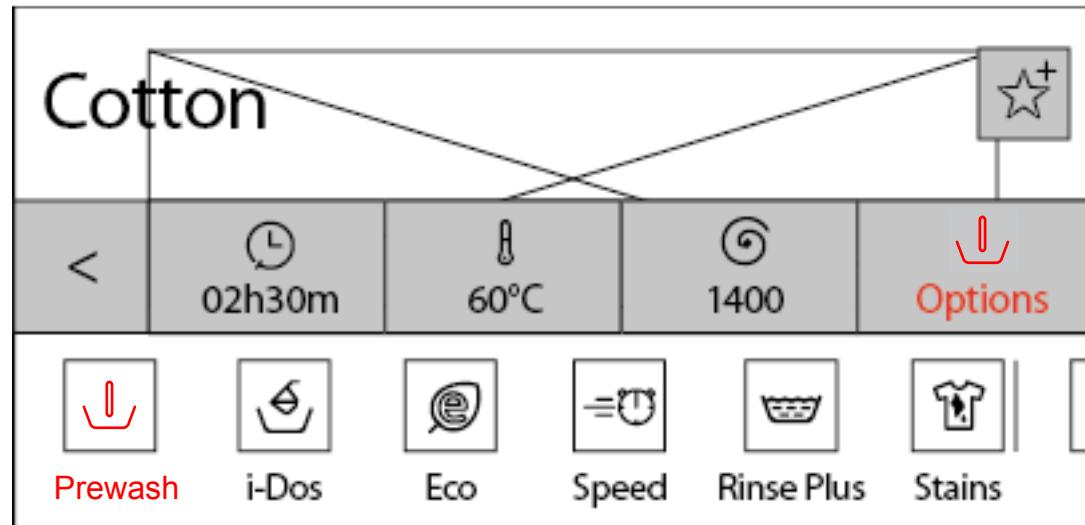
UI requirement:

- ▷ ① For each task the user must be given a result evaluation/reliable feedback about the completion and success of his actions (UI No.5). For this, the icon color and text will be changed.

Washer WasherDryer Dryer

Selecting prewash (FA-ID 570.1)

Configure additional options screen - close options screen - Bosch

 not started in work ui reviewed ic team reviewed all reviewed

The user can close this menu and go back to the screen before via click on „<“ or touch the background.

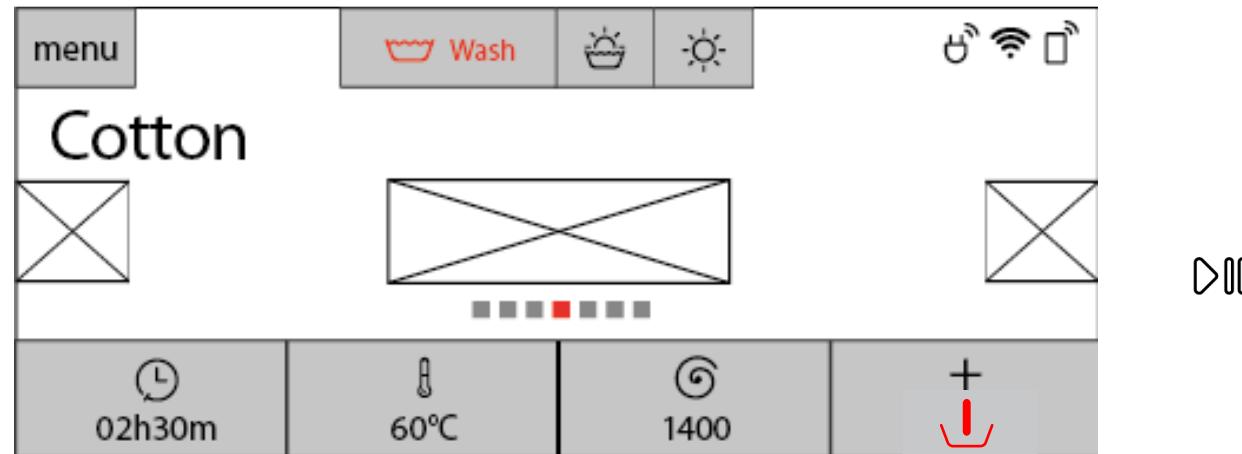


Washer WasherDryer Dryer

Selecting prewash (FA-ID 570.1)

Program selection screen - Start program - Bosch

not started in work ui reviewed ic team reviewed all reviewed



Press start button to continue.



 Washer  WasherDryer  Dryer

Selecting water plus (FA-ID 580.1)

 not started in work ui reviewed ic team reviewed all reviewed

Short Description

With selecting the water plus option, more water for washing and rinsing will be added.

Water plus selectable values: on, off

Water plus default value: off

Selection preservation: Conditional and program specific

Technical Details

Use Context

Remarks

Washing with extra water is more gentle to the laundry, e.g. for delicate cloths.

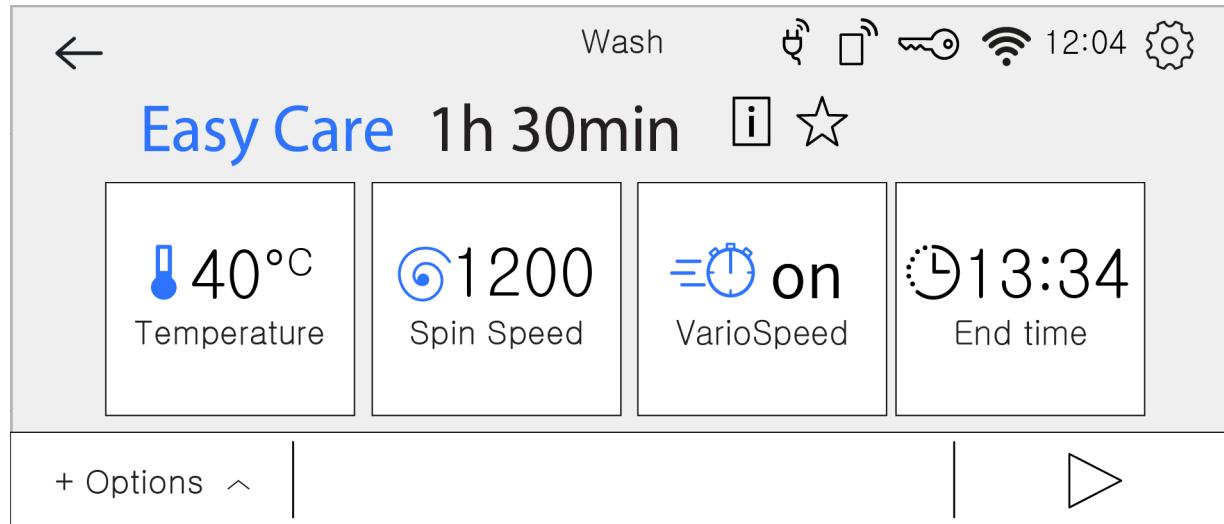
Some users expect to see water in the drum (water is normally not always visible).

They select water plus to see it.

Washer WasherDryer Dryer

Selecting water plus (FA-ID 580.1)

Configure primary parameter screen - Open options menu - Siemens

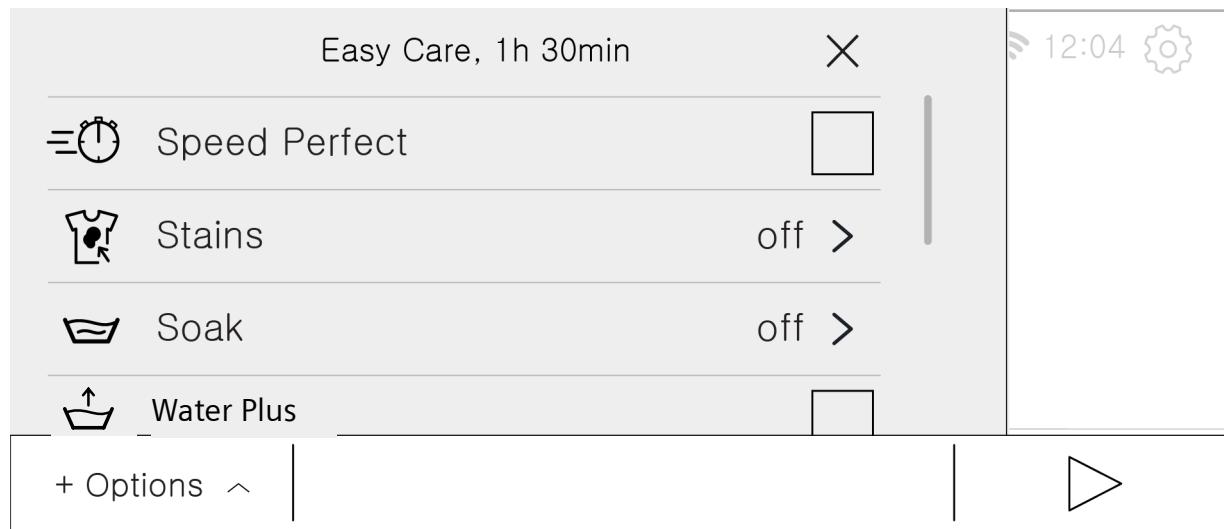
 not started in work ui reviewed ic team reviewed all reviewed

● Washer ● WasherDryer ○ Dryer

Selecting water plus (FA-ID 580.1)

Configure additional options screen - select water plus - Siemens

○ not started ● in work ○ ui reviewed ○ ic team reviewed ○ all reviewed



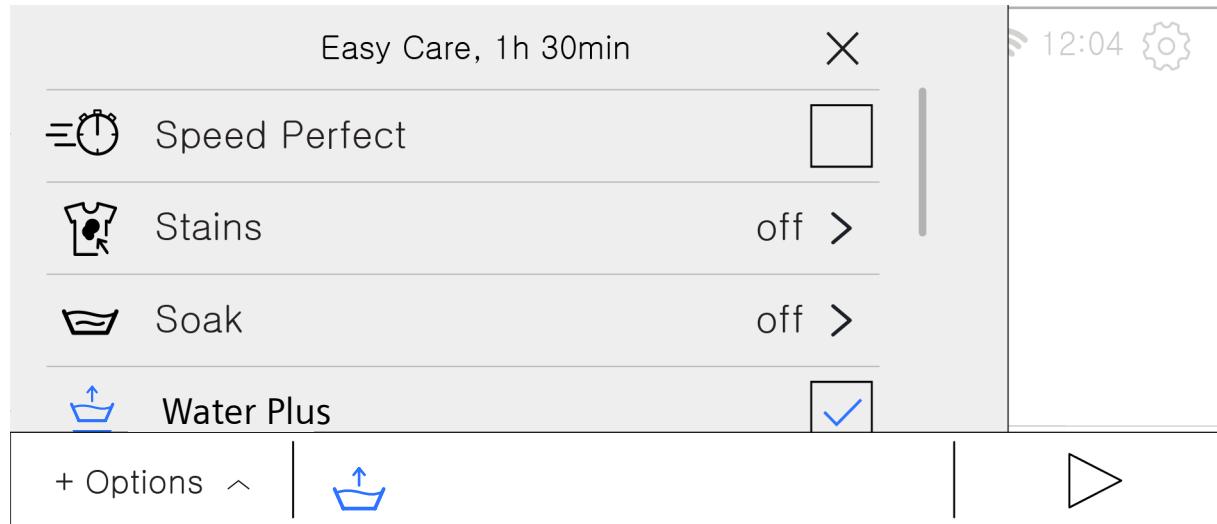
The options menu will overlay on the configure primary parameter screen.

● Washer ● WasherDryer ○ Dryer

Selecting water plus (FA-ID 580.1)

Configure additional options screen - Close options menu - Siemens

○ not started ● in work ○ ui reviewed ○ ic team reviewed ○ all reviewed



The selected option (Water Plus) will be displayed next to the Options button.

UI requirement:

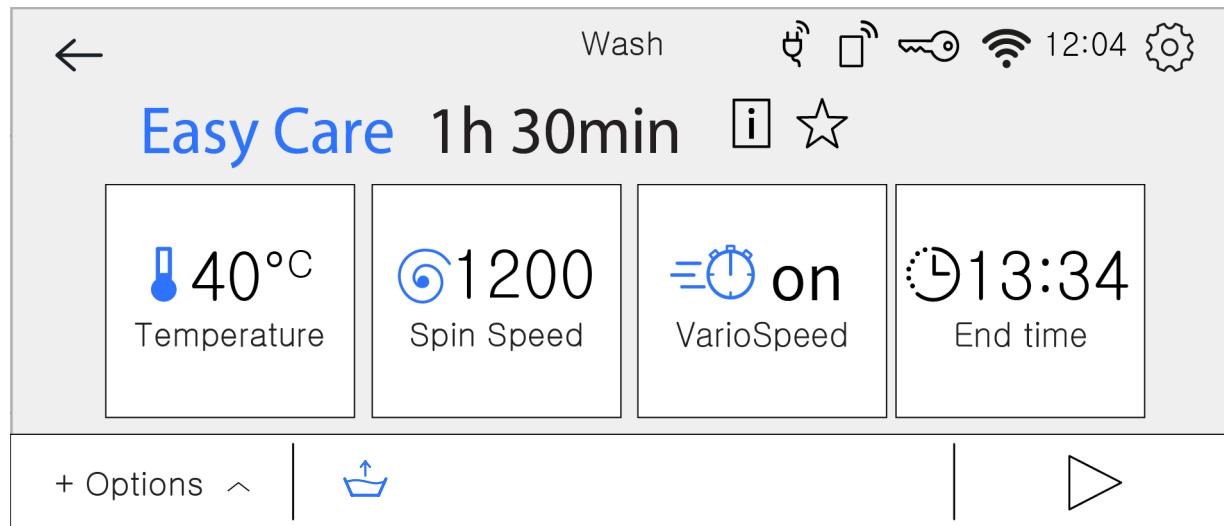
For each task the user must be given a result evaluation/reliable feedback about the completion and success of his actions (UI No.5).

By tapping on the „X“ button OR touch the background, the option is saved and user returns to configure primary parameter screen.

Washer WasherDryer Dryer

Selecting water plus (FA-ID 580.1)

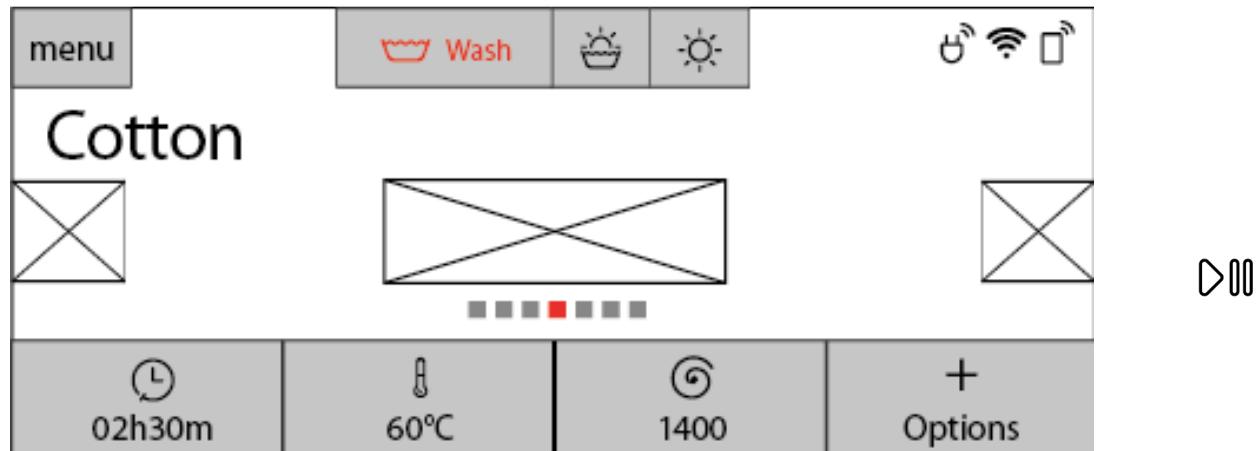
Configure primary parameter screen - Start program - Siemens

 not started in work ui reviewed ic team reviewed all reviewed

Washer WasherDryer Dryer

Selecting water plus (FA-ID 580.1)

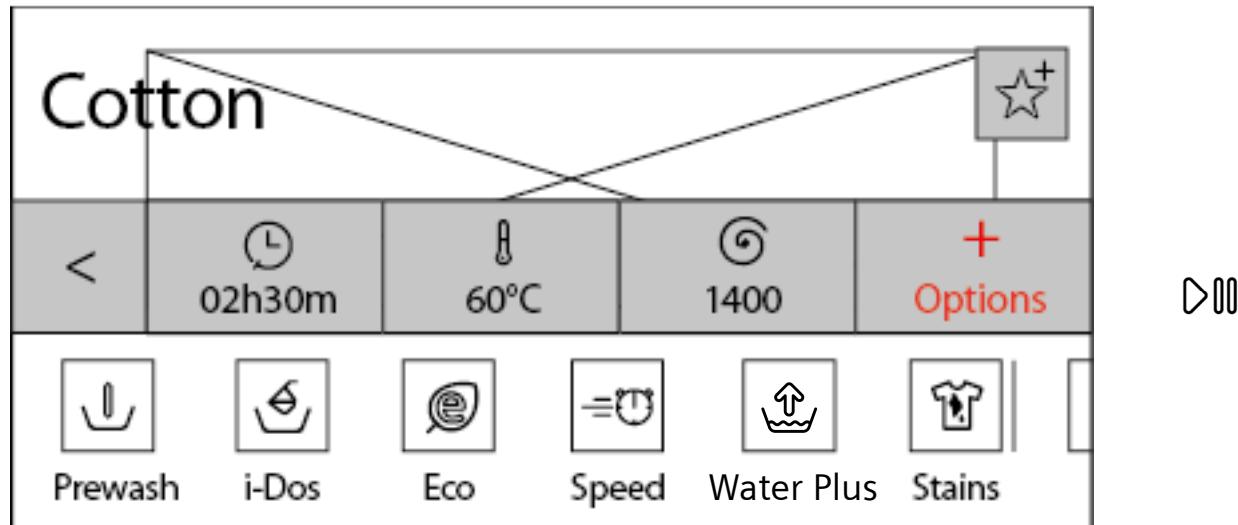
Configure primary parameter screen - Open options menu - Bosch

 not started in work ui reviewed ic team reviewed all reviewed

Washer WasherDryer Dryer

Selecting water plus (FA-ID 580.1)

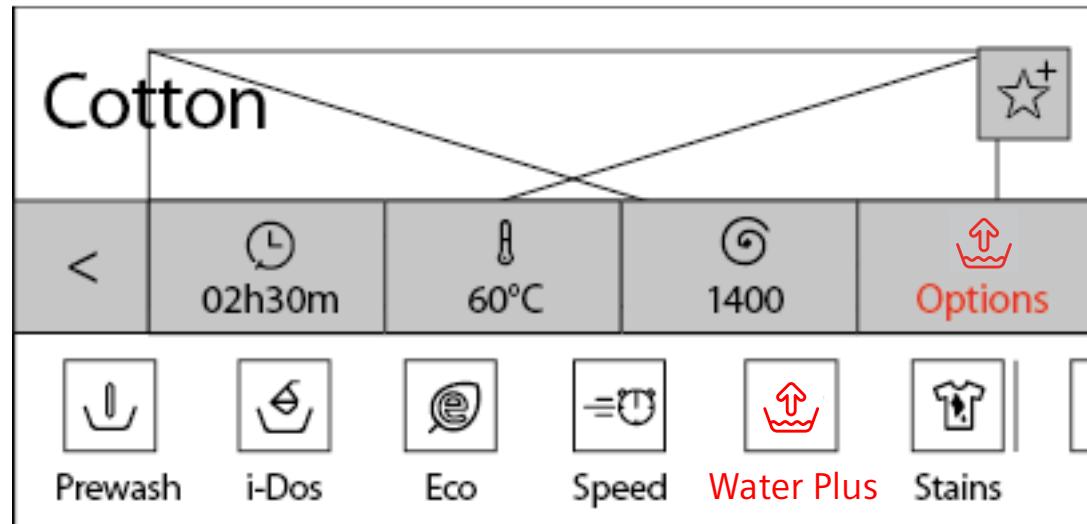
Configure additional options screen - Select water plus - Bosch

 not started in work ui reviewed ic team reviewed all reviewed

Selecting water plus (FA-ID 580.1)

Configure additional options screen - close options screen - Bosch

not started in work ui reviewed ic team reviewed all reviewed



The selected option (Prewash) will be shown on the Options button.

UI requirement:

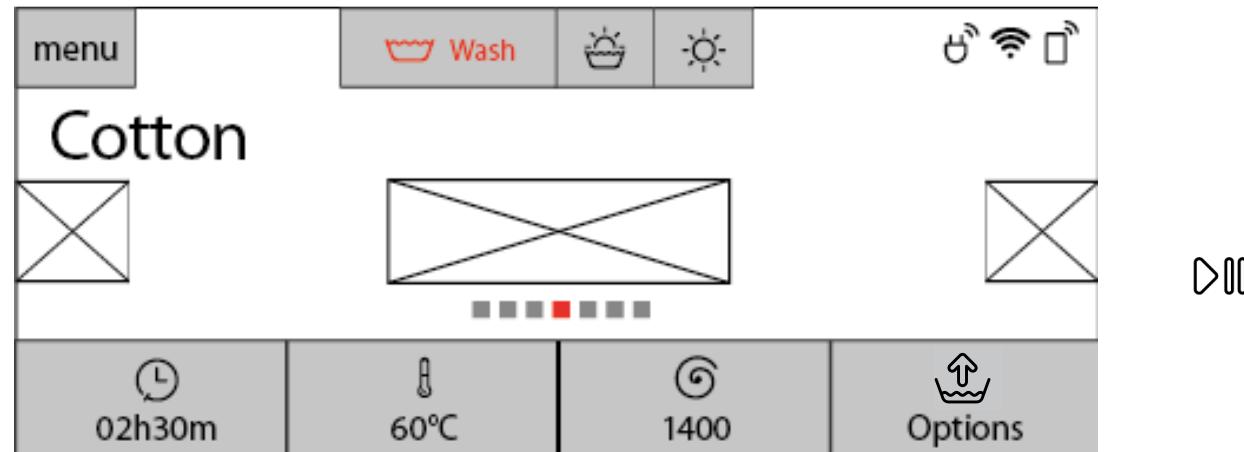
For each task the user must be given a result evaluation/reliable feedback about the completion and success of his actions (UI No.5). For this, the icon color and text will be changed.

The user can close this menu and go back to the screen before via click on „<“ or touch the background.

Washer WasherDryer Dryer

Selecting water plus (FA-ID 580.1)

Program selection screen - Start program - Bosch

 not started in work ui reviewed ic team reviewed all reviewed

Press start button to continue.



Selecting easy iron (FA-ID 600.1)

 not started  in work  ui reviewed  ic team reviewed  all reviewed

Short Description

With selecting easy iron,
Wash mode: The spin speed will be reduced and an additional loosing phase will be added after washing.
Wash&Dry mode: If drying is pre-selected, easy iron will not display in the Options, because a loosing phase is already included in the subsequent drying.

If easy iron is selected, then drying is selected afterwards, the easy iron will disappear on the options button and options list. (BO)

Easy iron selectable values: on, off

Easy iron default values: off

Selection preservation: Conditional and program specific

Technical Details

With selecting easy iron, the spin speed will be reduced and additional loosing phase will be added.

Use Context

The user wants to assure, that after washing, his laundry (e.g. business shirts) has not too much wrinkles. So he selects the easy iron option. After washing he may even iron his laundry.

Remarks

Due to our current bosch screen, the user can change their mode in program selection screen, but some option only can be selected in one mode (like easy iron just can be selected in wash mode), so after our discussion when he selecting a option firstly and change the mode meanwhile this option is not suitable this mode, then this option will disappear or not selected. Because we all think this proposal is easier to understand.

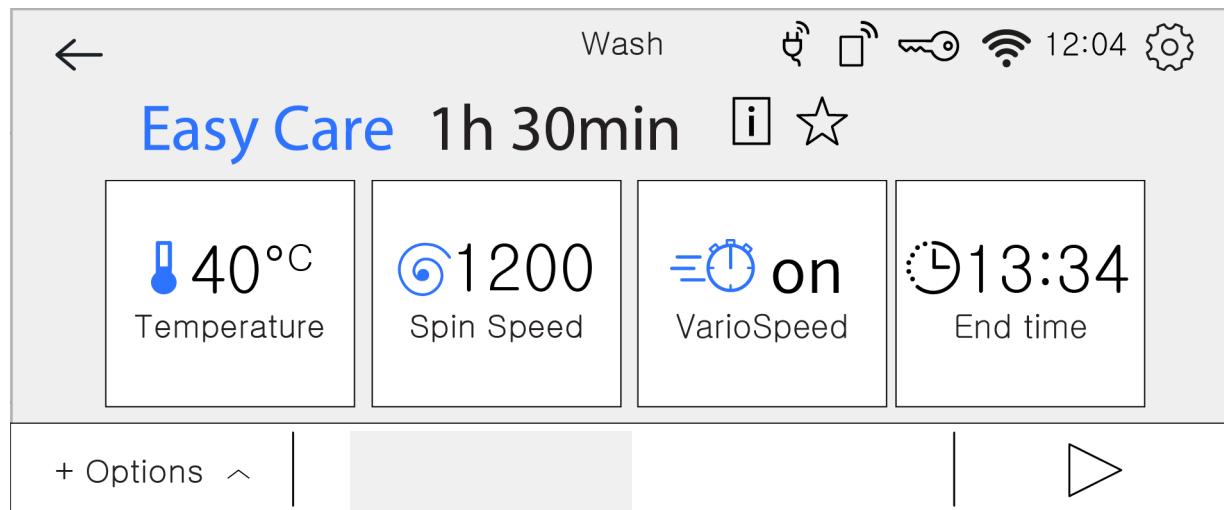
For the detail of our discussion please refer to:

\\tcc.bsh-partner.com@SSL\David\WWWRoot\sites\00050050\padua\Projectfolder\060_PT_Marketing\070_User_Interface\50_Raw_concept\OT-MT-GT-control\02_Working\Open_topics\Mode_change_influence_on_Options_BO.pptx

Washer WasherDryer Dryer

Selecting easy iron (FA-ID 600.1)

Configure primary parameter screen - open options menu (Siemens)

 not started in work ui reviewed ic team reviewed all reviewed

● Washer ● WasherDryer ○ Dryer

Selecting easy iron (FA-ID 600.1)

Configure additional options screen - selecting easy iron (Siemens)

○ not started ○ in work ● ui reviewed ○ ic team reviewed ○ all reviewed



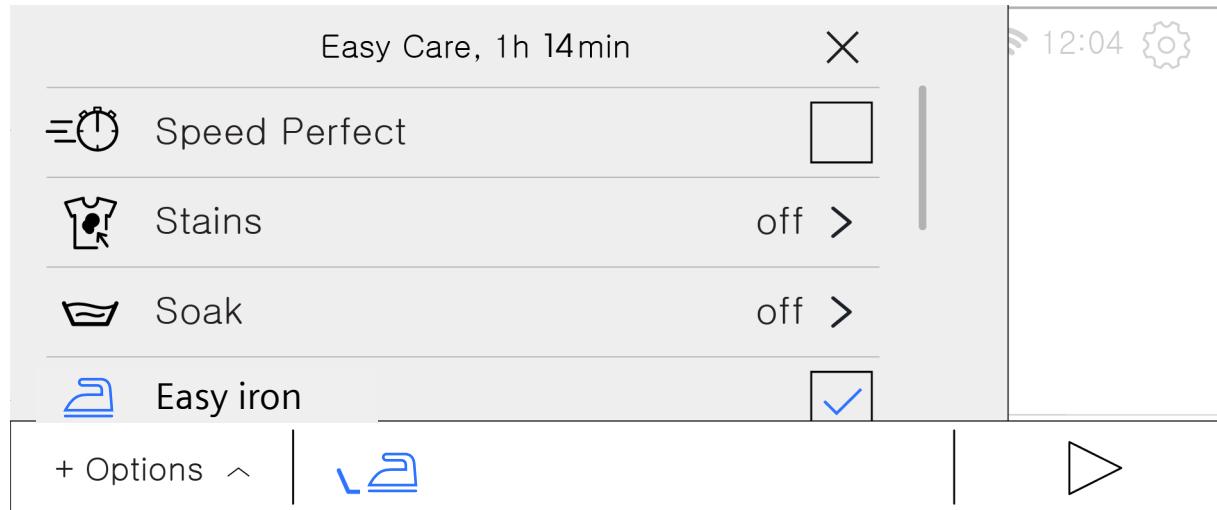
The options menu will overlay on the configure primary parameter screen.

Washer WasherDryer Dryer

Selecting easy iron (FA-ID 600.1)

Configure additional options screen - back to the screen before (Siemens)

not started in work ui reviewed ic team reviewed all reviewed



The selected option (easy iron) will be displayed next to the Options button.

UI requirements:

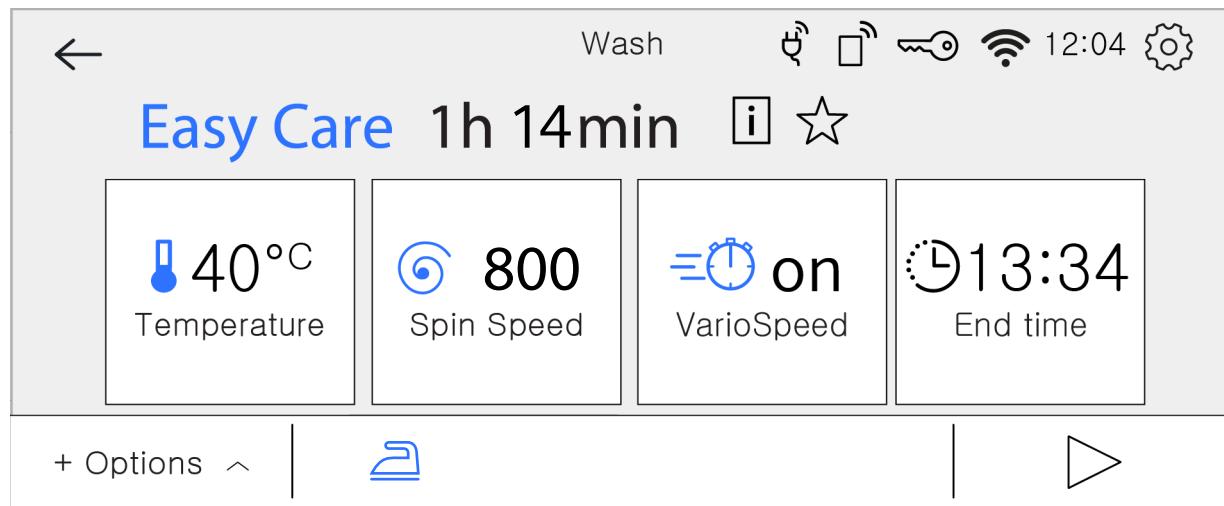
For each task the user must be given a result evaluation/reliable feedback about the completion and success of his actions (UI No.5). e.g. the color of text and icon is changed.

By tapping on the „X“ button OR touch the background, the option is saved and user returns to configure primary parameter screen.

Washer WasherDryer Dryer

Selecting easy iron (FA-ID 600.1)

Configure primary parameter screen (Siemens)

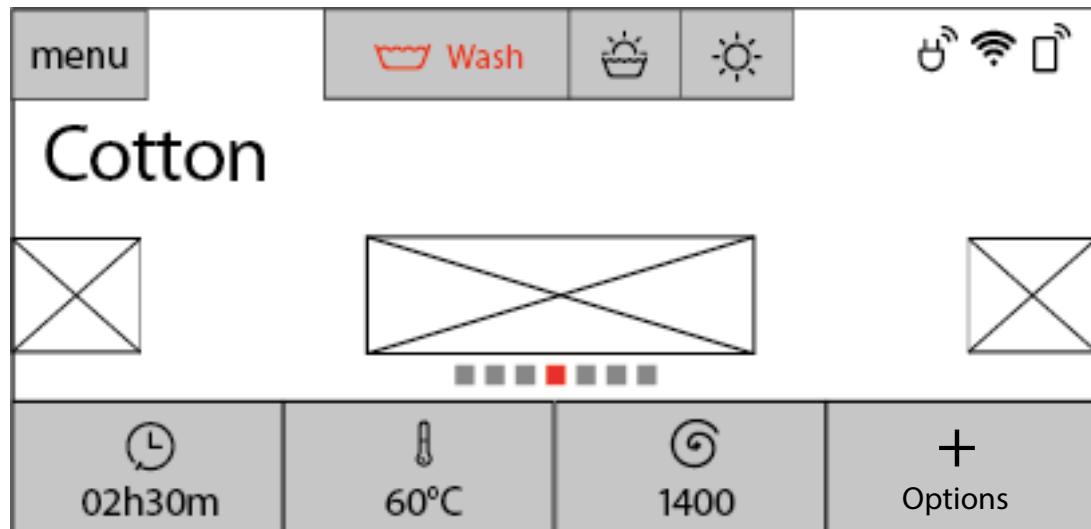
 not started in work ui reviewed ic team reviewed all reviewed

The spin speed value and the remaining time will be updated.

Washer WasherDryer Dryer

Selecting easy iron (FA-ID 600.1)

Program selection screen - open options menu (Bosch)

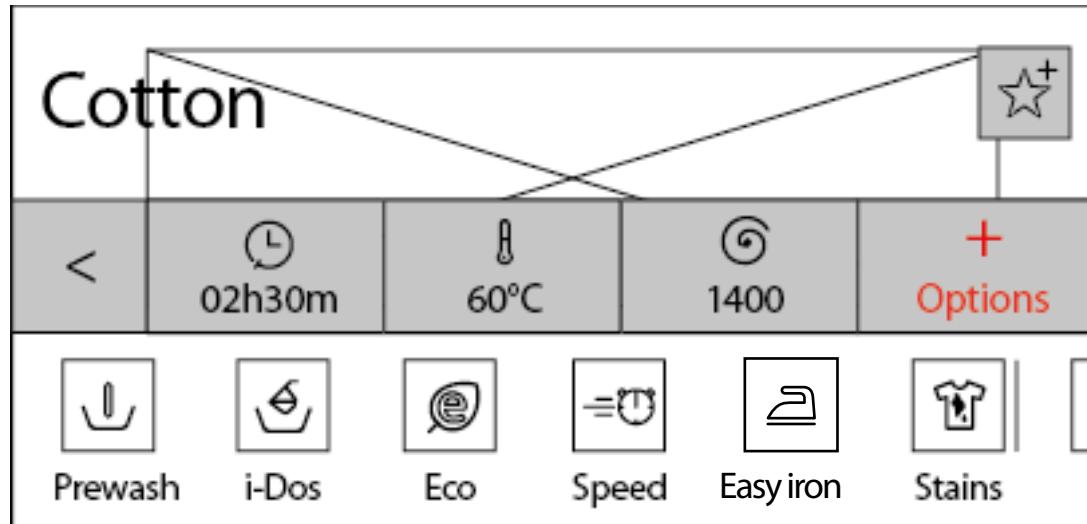
 not started in work ui reviewed ic team reviewed all reviewed

Washer WasherDryer Dryer

Selecting easy iron (FA-ID 600.1)

Configure additional options screen - selecting easy iron (Bosch)

not started in work ui reviewed ic team reviewed all reviewed



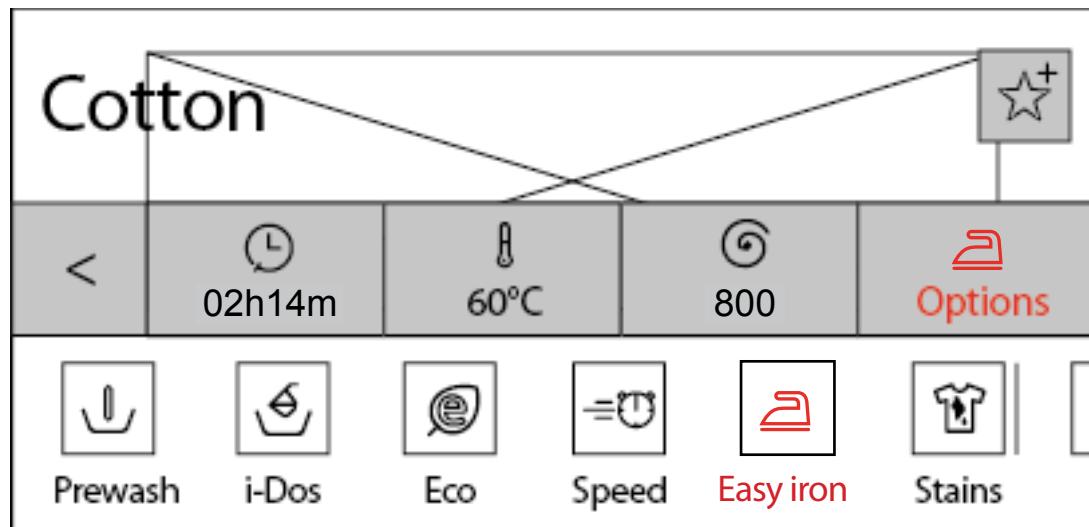
The options menu will overlay on the configure primary parameter screen.

Washer WasherDryer Dryer

Selecting easy iron (FA-ID 600.1)

Configure additional options screen - close options menu (Bosch)

not started in work ui reviewed ic team reviewed all reviewed



The selected option (easy iron) will be displayed on the Options button.

The spin speed value and the remaining time will be updated.

UI requirements:

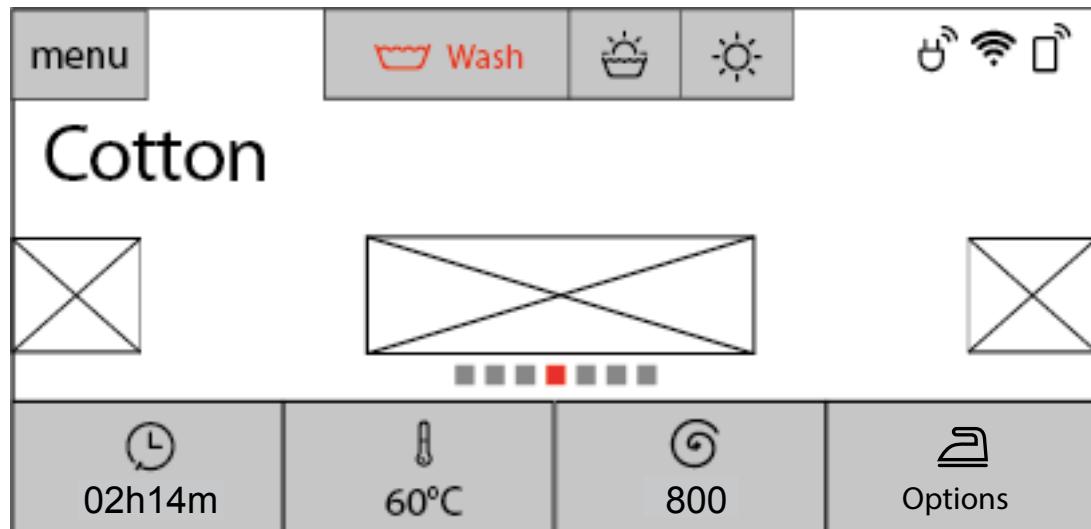
For each task the user must be given a result evaluation/reliable feedback about the completion and success of his actions (UI No.5). e.g. the color of text and icon is changed.

By tapping on the back button OR touch the background, the option is saved and user returns to program selection screen.

Washer WasherDryer Dryer

Selecting easy iron (FA-ID 600.1)

Program selection screen - change the mode (Bosch)

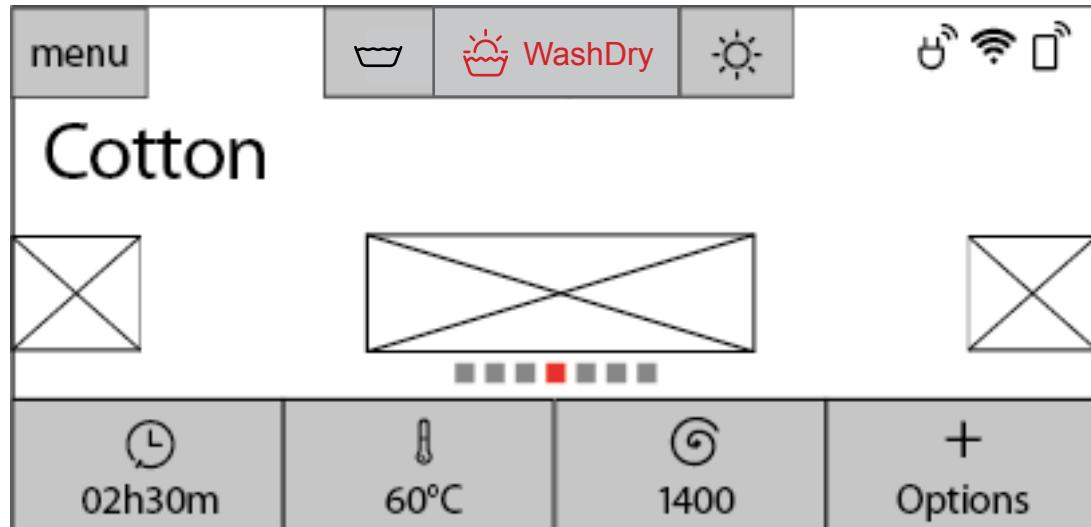
 not started in work ui reviewed ic team reviewed all reviewed

Washer WasherDryer Dryer

Selecting easy iron (FA-ID 600.1)

Program selection screen - change the mode (Bosch)

not started in work ui reviewed ic team reviewed all reviewed



In the Wash&Dry mode, the easy iron icon will not be shown on the options button and it also will not be shown in the options list when user open the options.

It will go back to the default Cotton program in Wash&Dry mode.

Selecting rinse hold (FA-ID 620.2)

 not started

 in work

 ui reviewed

 ic team reviewed

 all reviewed

Short Description

The user can select the rinse hold option in order to keep the water in the drum after the last rinsing cycle, before the final draining and spinning.

Rinse hold selectable values: on, off

Rinse hold default values: off

Selection preservation: Conditional and program specific

Technical Details

The laundry is kept in suds to prevent wrinkles. This is especially helpful in case of long time periods between „program finished“ and unloading the appliance.

The door is normally locked if rinse hold is reached, because the water level is normally above the door lock security level.

Use Context

The user can't take out the laundry in time when the washing program finished, then he/she wants to avoid wrinkles within his laundry he/she can select rinse hold.

The user wants to wash curtains. In order to have absolutely no wrinkles in his curtains, he will select rinse hold.

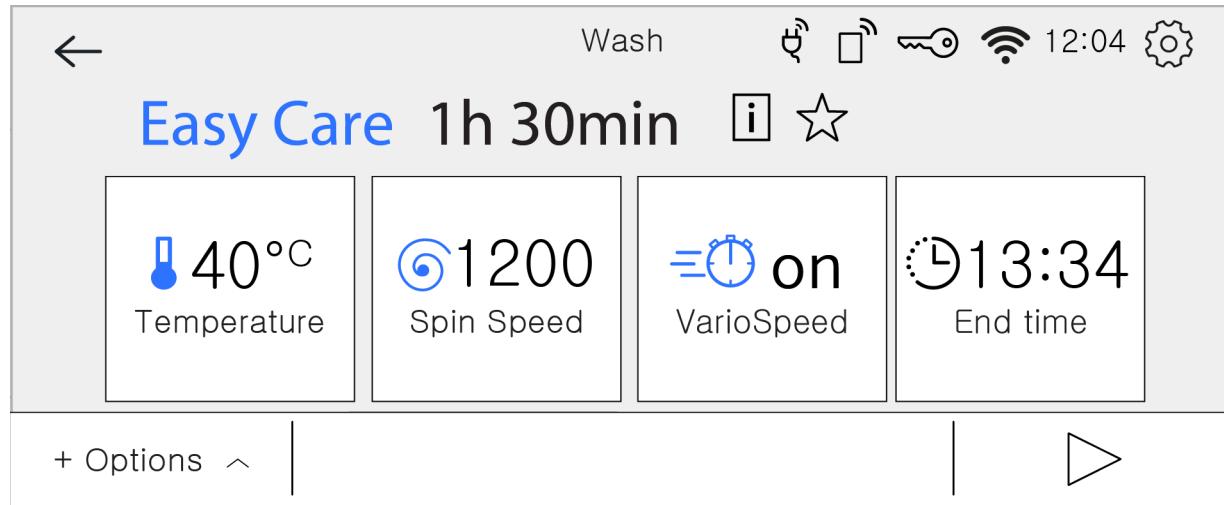
Remarks

When the appliance is in the state of rinse hold, you either have to spin the laundry or drain the water in order to end the programme. Only then you can take out the laundry.

Washer WasherDryer Dryer

Selecting rinse hold (FA-ID 620.2)

Configure primary parameter screen - open options menu (Siemens)

 not started in work ui reviewed ic team reviewed all reviewed

Washer WasherDryer Dryer

Selecting rinse hold (FA-ID 620.2)

Configure additional options screen - select rinse hold (Siemens)

not started in work ui reviewed ic team reviewed all reviewed



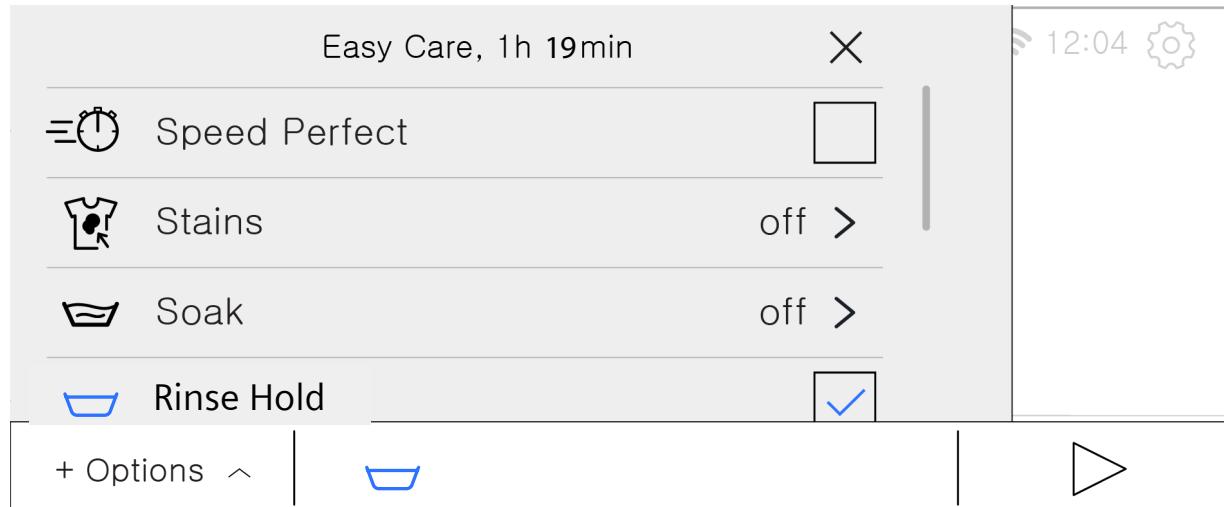
The options menu will overlay on the configure primary parameter screen.

● Washer ● WasherDryer ○ Dryer

Selecting rinse hold (FA-ID 620.2)

Configure additional options screen - back to the screen before (Siemens)

○ not started ○ in work ● ui reviewed ○ ic team reviewed ○ all reviewed



The selected option (rinse hold) will be displayed next to the Options button.

The remaining time will be updated.

UI requirements:

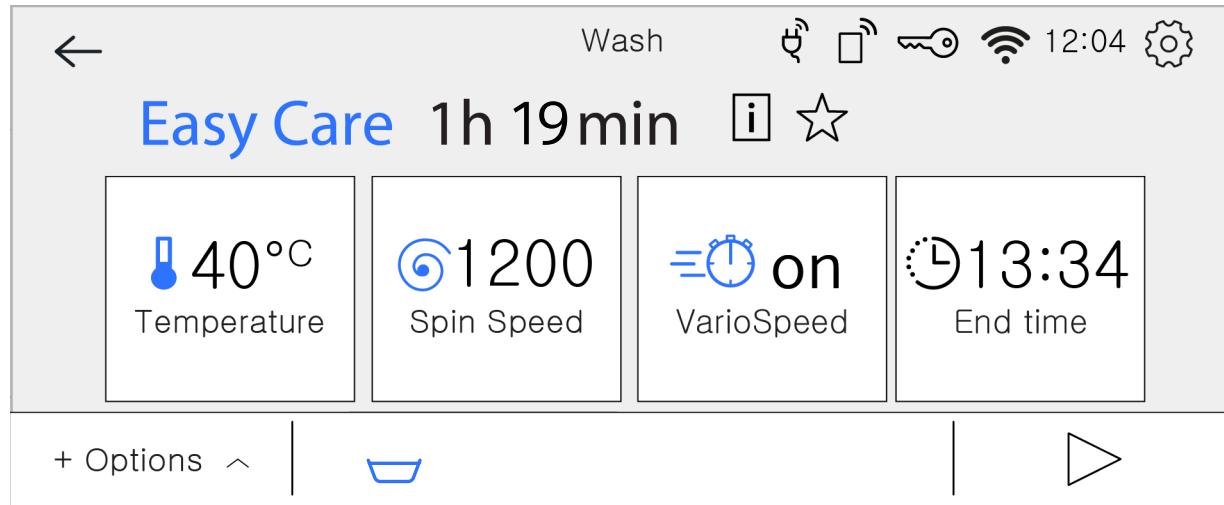
For each task the user must be given a result evaluation/reliable feedback about the completion and success of his actions (UI No.5). e.g. the color of text and icon is changed.

By tapping on the „X“ button OR touch the background, the option is saved and user returns to configure primary parameter screen.

Washer WasherDryer Dryer

Selecting rinse hold (FA-ID 620.2)

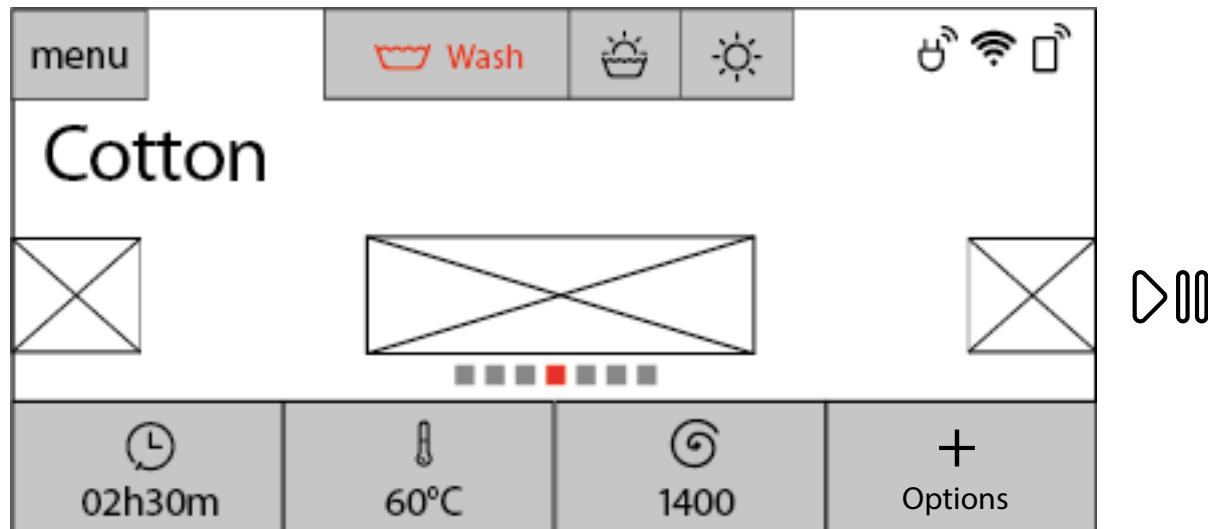
Configure primary parameter screen - start program (Siemens)

 not started in work ui reviewed ic team reviewed all reviewed

Washer WasherDryer Dryer

Selecting rinse hold (FA-ID 620.2)

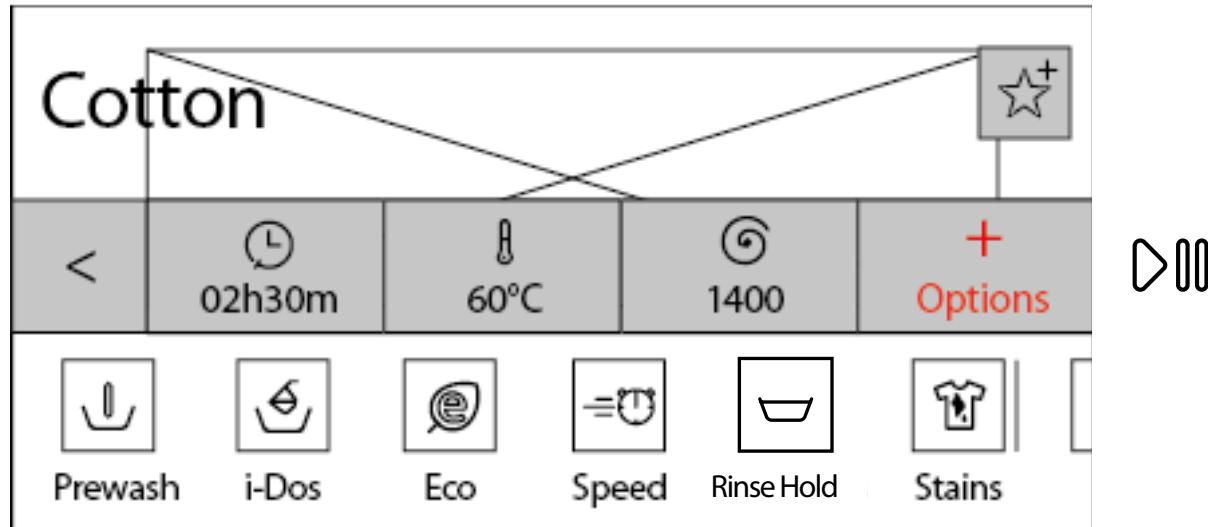
Program selection screen - open options menu (Bosch)

 not started in work ui reviewed ic team reviewed all reviewed

Washer WasherDryer Dryer

Selecting rinse hold (FA-ID 620.2)

Configure additional options screen - select rinse hold (Bosch)

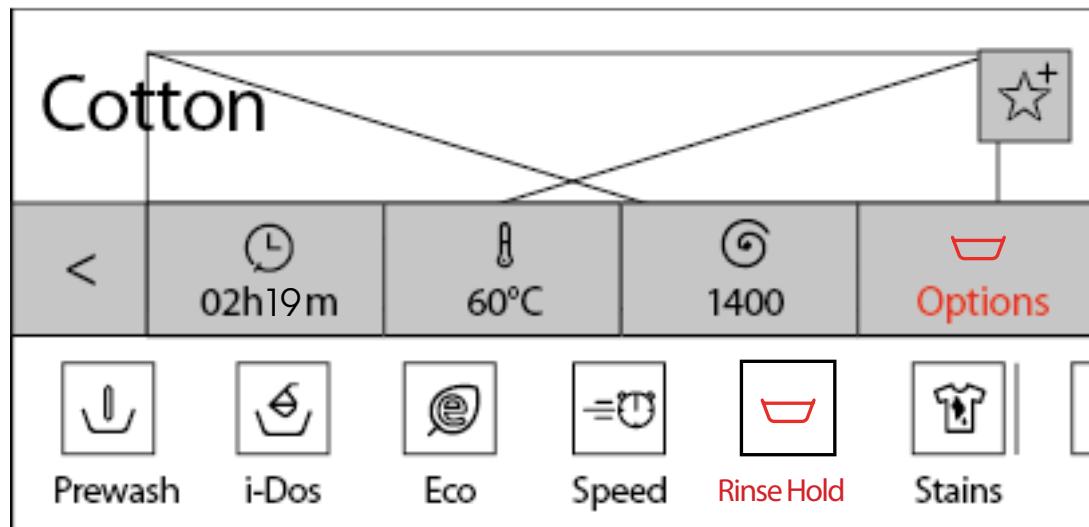
 not started in work ui reviewed ic team reviewed all reviewed

Washer WasherDryer Dryer

Selecting rinse hold (FA-ID 620.2)

Configure additional options screen - select rinse hold (Bosch)

not started in work ui reviewed ic team reviewed all reviewed



The selected option (rinse hold) will be displayed on the options button.

The remaining time will be updated.

UI requirements:

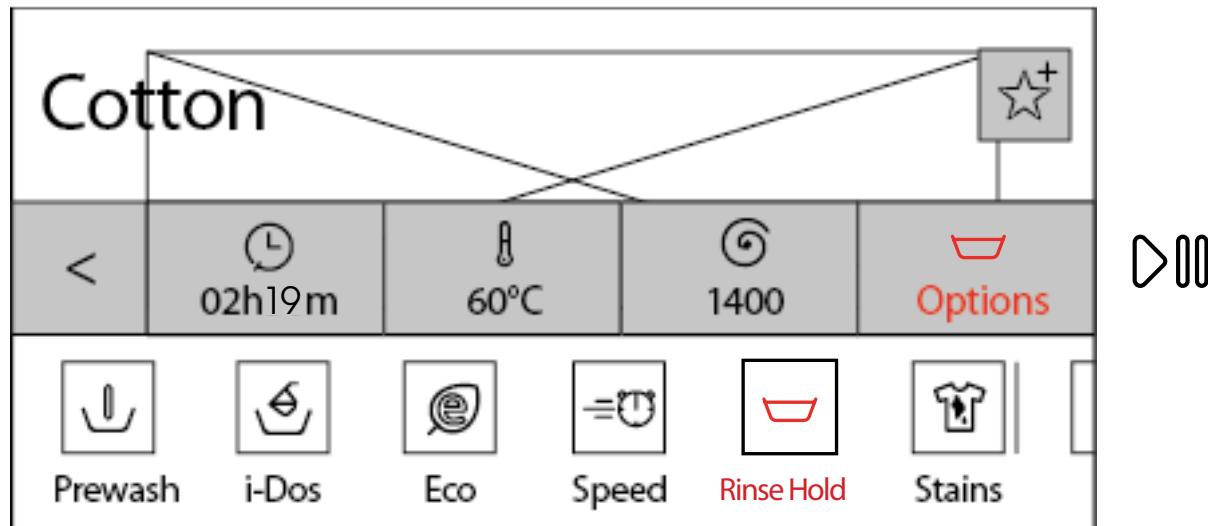
For each task the user must be given a result evaluation/reliable feedback about the completion and success of his actions (UI No.5). e.g. the color of text and icon is changed.

Washer WasherDryer Dryer

Selecting rinse hold (FA-ID 620.2)

Configure additional options screen - select rinse hold (Bosch)

not started in work ui reviewed ic team reviewed all reviewed

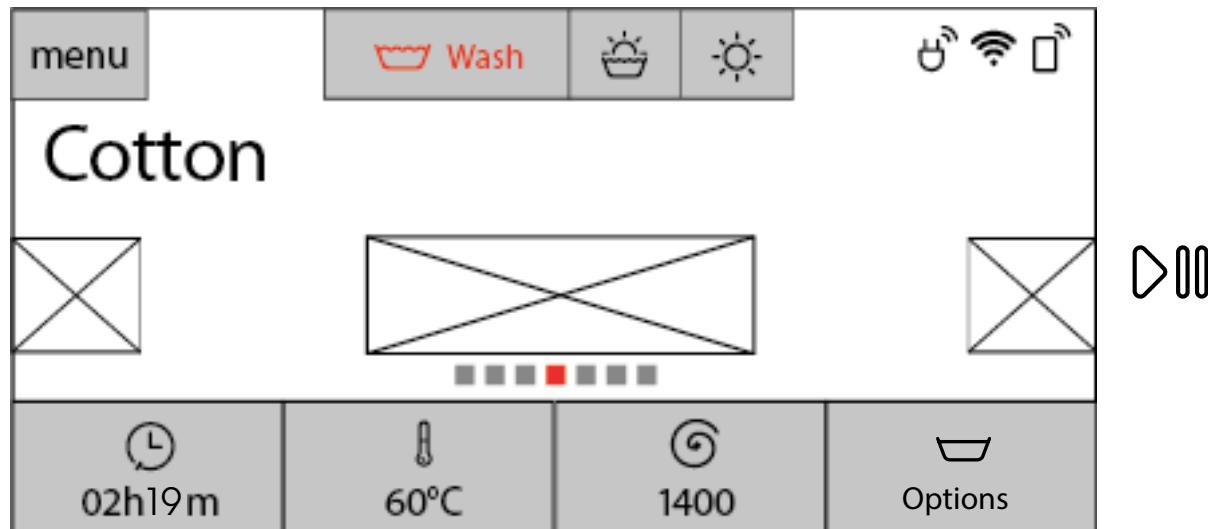


By tapping on the back button OR touch the background, the option is saved and user returns to program selection screen.

Washer WasherDryer Dryer

Selecting rinse hold (FA-ID 620.2)

Program selection screen - start program (Bosch)

 not started in work ui reviewed ic team reviewed all reviewed

Performing rinse hold (FA-ID 620.1)

 not started

 in work

 ui reviewed

 ic team reviewed

 all reviewed

Short Description

If the user selected the rinse hold option the program pauses before the draining phase of the final spinning. Afterwards the program can be continued with spinning or draining by user operation.

Spin speed selectable values: according to the needs of the respective program properties.

Spin speed default values: Its values keep the same with the value which is you start the program.

Drain selectable values: on, off

Drain default values: off

Technical Details

Rinse hold state is not an „end“ state of the washing cycle even there will be „Finish“ sound output to remind the user to come to the appliance. The rinse hold state is more like a „Pause“ state.

Use Context

The appliance is in the rinse hold state and the user wants to

- drain only and take out laundry.
- drain and spin before taking out the laundry.

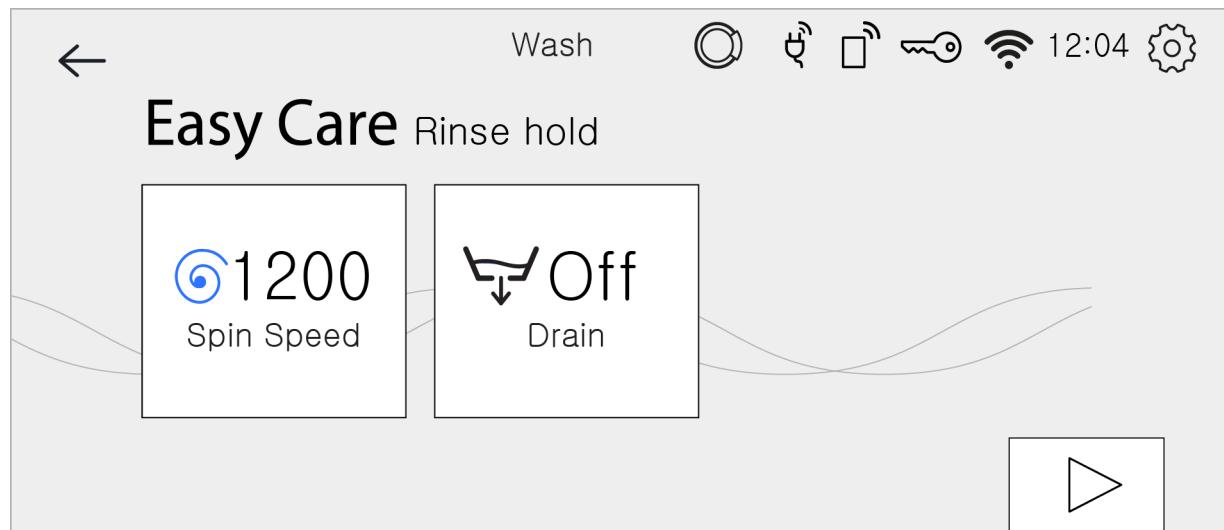
Remarks

If you want to take out the laundry when the appliance is in the state of rinse hold, you either have to spin the laundry or drain the water in order to end the programme. Only then you can take out the laundry.

Performing rinse hold (FA-ID 620.1)

Rinse hold screen - indicating rinse hold reached (Siemens)

○ not started ○ in work ● ui reviewed ○ ic team reviewed ○ all reviewed



Start/pause button blinks on

Between spin speed and drain, they have a radio button relation with each other.

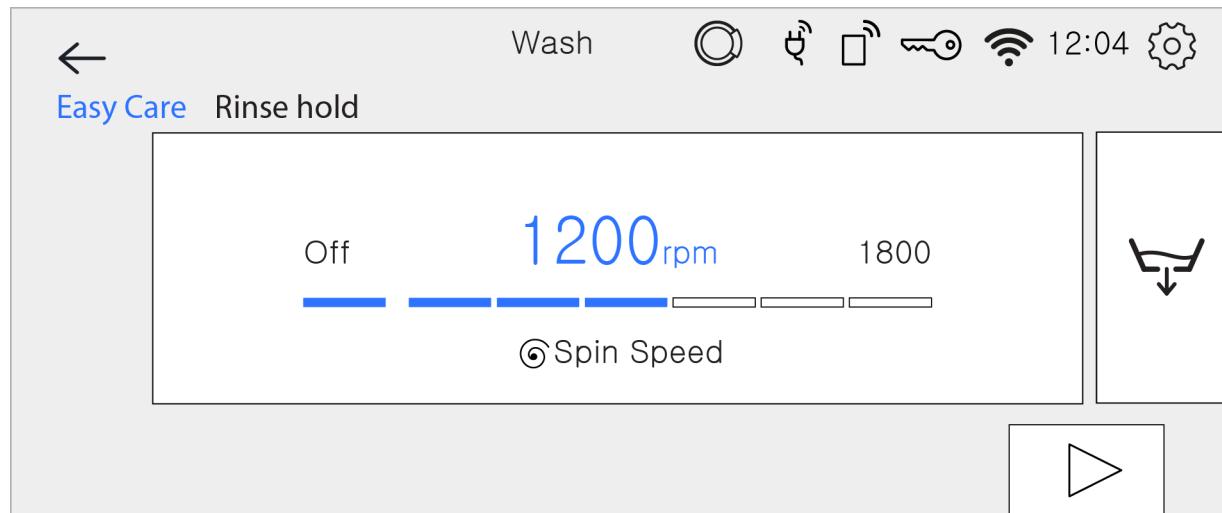
Tapping on the spin speed tile will widen this tile and the value can be adjusted.

UI requirements:

For each task the user must be given a result evaluation/reliable feedback about the completion and success of his actions (UI No.5). e.g the icon color will be changed when the option is activated.

Performing rinse hold (FA-ID 620.1)

Rinse hold screen - select spin speed (Siemens)

 not started in work ui reviewed ic team reviewed all reviewed

The spin speed parameter value can be selected by swiping over the values or by tapping on a value bar.

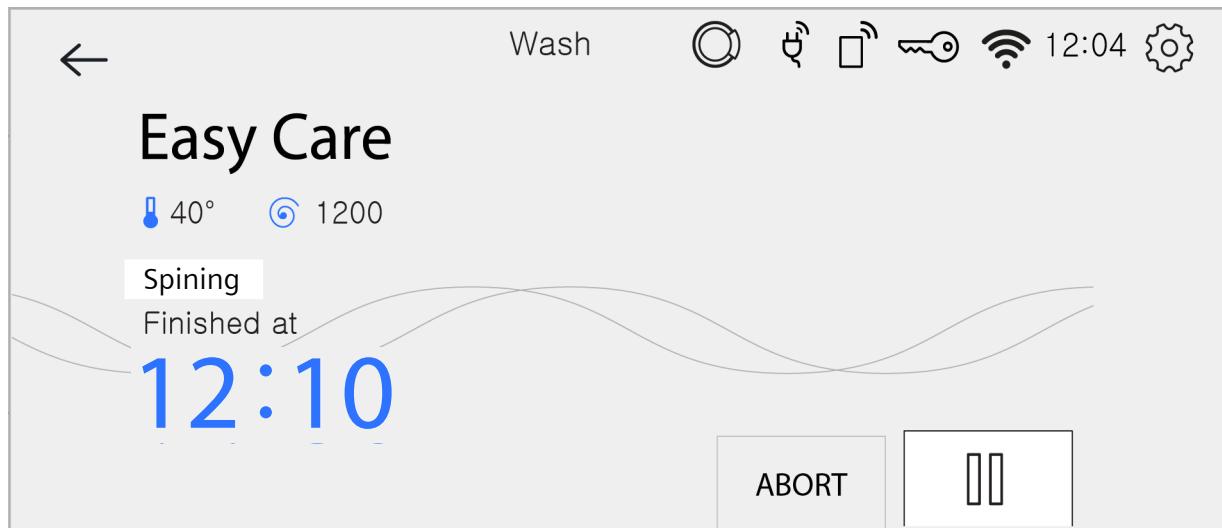
Press start to continue with spinning.

● Washer ● WasherDryer ○ Dryer

Performing rinse hold (FA-ID 620.1)

Rinse hold screen - running spin (Siemens)

○ not started ○ in work ● ui reviewed ○ ic team reviewed ○ all reviewed

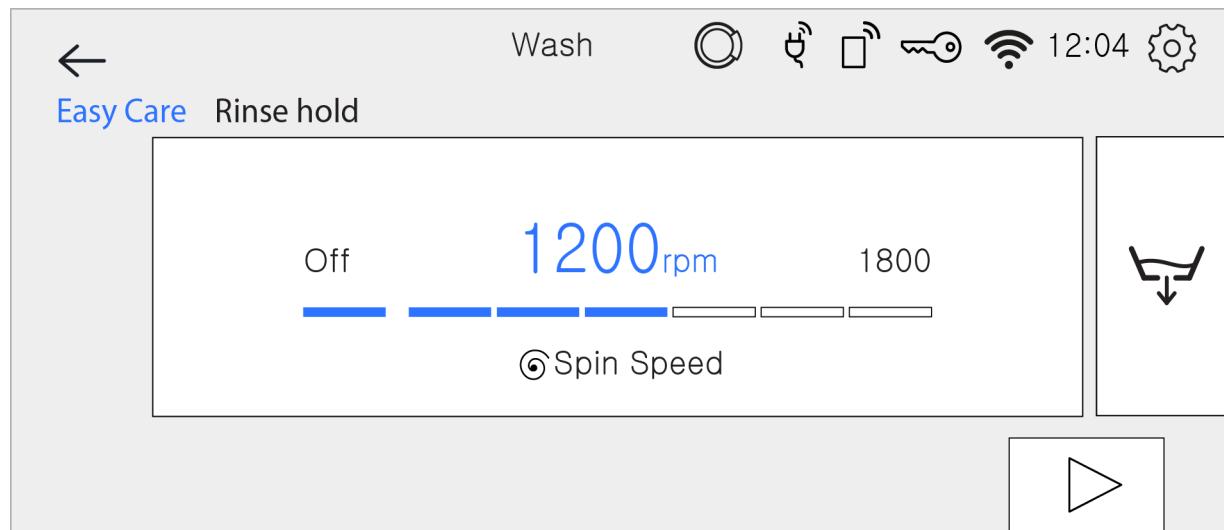


Washer WasherDryer Dryer

Performing rinse hold (FA-ID 620.1)

Rinse hold screen - select drain (Siemens)

not started in work ui reviewed ic team reviewed all reviewed



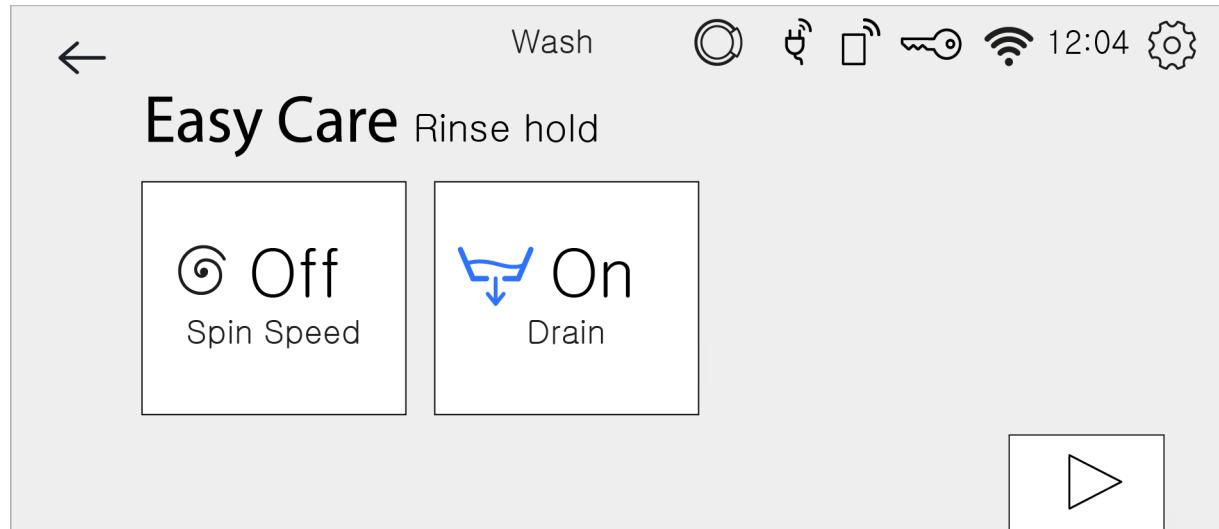
The user can select the drain button to activate or select „off spin“ to activate the drain.

Washer WasherDryer Dryer

Performing rinse hold (FA-ID 620.1)

Rinse hold screen - selecting drain (Siemens)

not started in work ui reviewed ic team reviewed all reviewed



Press start to continue with draining.

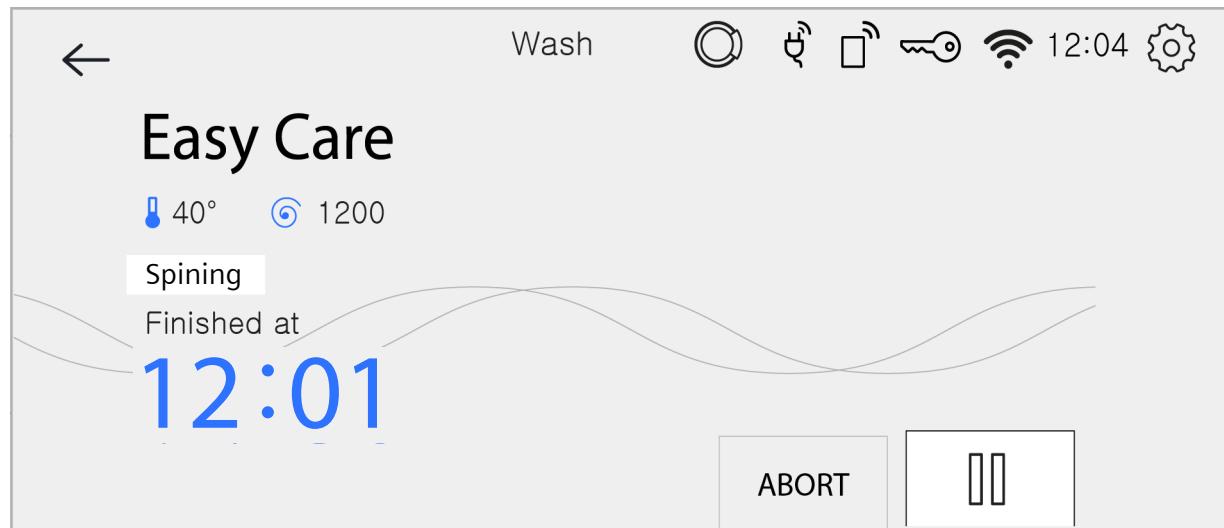
UI requirements:

For each task the user must be given a result evaluation/reliable feedback about the completion and success of his actions (UI No.5). e.g the icon color will be changed when the option is activated.

Washer WasherDryer Dryer

Performing rinse hold (FA-ID 620.1)

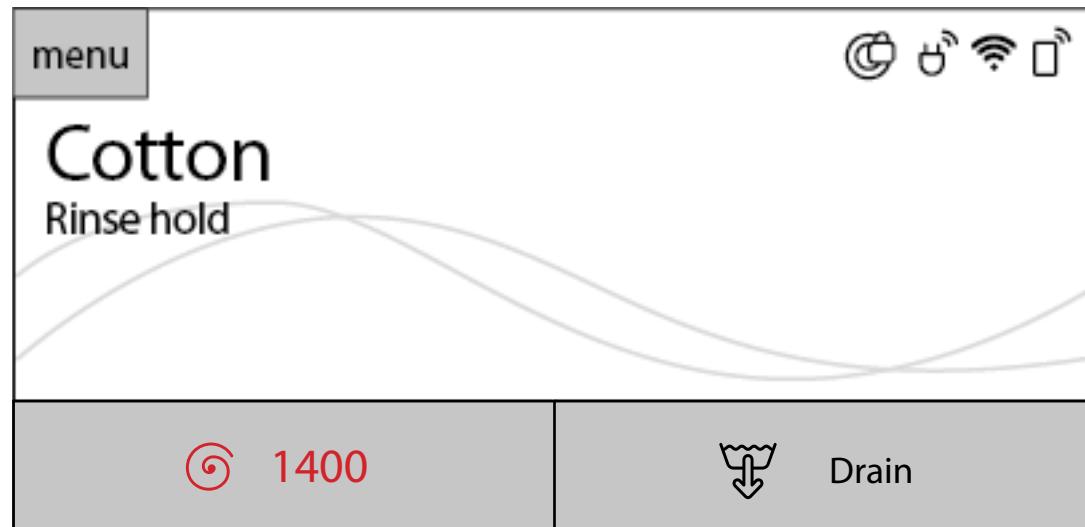
Close up view screen - running drain (Siemens)

 not started in work ui reviewed ic team reviewed all reviewed

Performing rinse hold (FA-ID 620.1)

Rinse hold screen - indicating rinse hold reached (Bosch)

○ not started ○ in work ● ui reviewed ○ ic team reviewed ○ all reviewed



Start/pause button blinks on

Between spin speed and drain, they have a radio button relation with each other.

UI requirements:

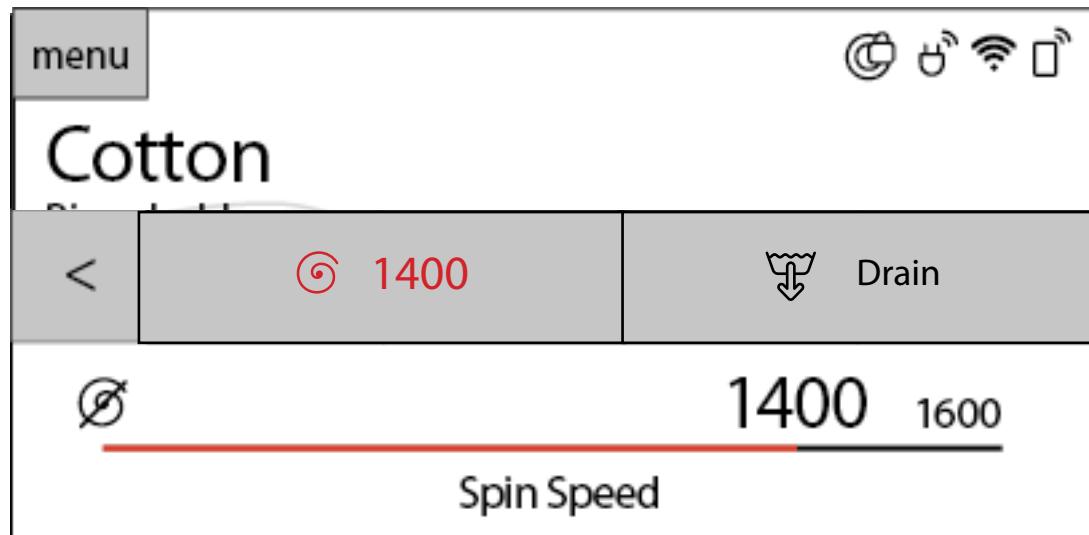
For each task the user must be given a result evaluation/reliable feedback about the completion and success of his actions (UI No.5).

Washer WasherDryer Dryer

Performing rinse hold (FA-ID 620.1)

Rinse hold screen - select spin speed (Bosch)

not started in work ui reviewed ic team reviewed all reviewed



The spin speed parameter value can be selected by swiping over the values or by tapping.

A transparent overlay appears from the bottom of the screen, opening the value selection of spin speed parameter. No change of whole screen content, only transparent overlay.



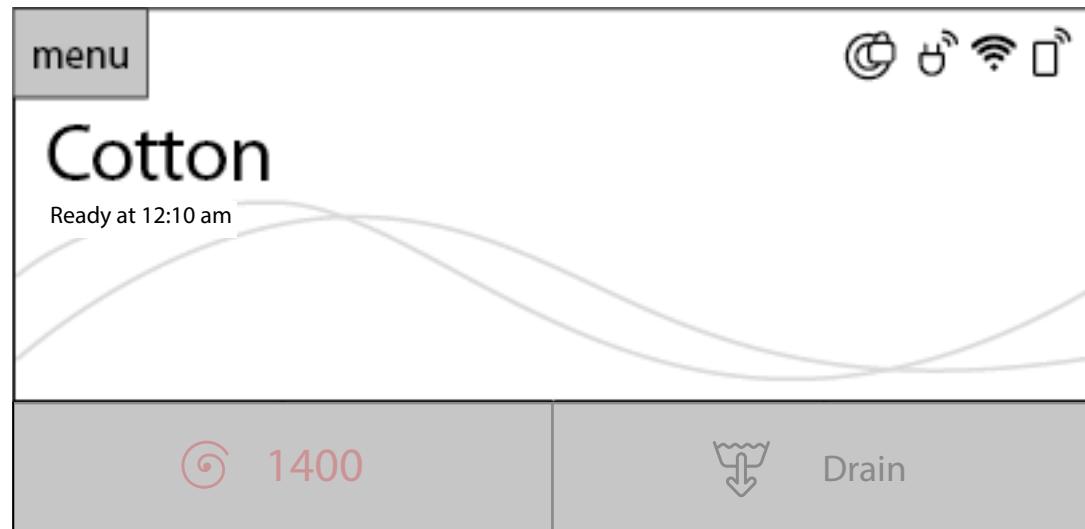
Press start to continue with spinning.

Washer WasherDryer Dryer

Performing rinse hold (FA-ID 620.1)

Rinse hold screen - running spin (Bosch)

not started in work ui reviewed ic team reviewed all reviewed

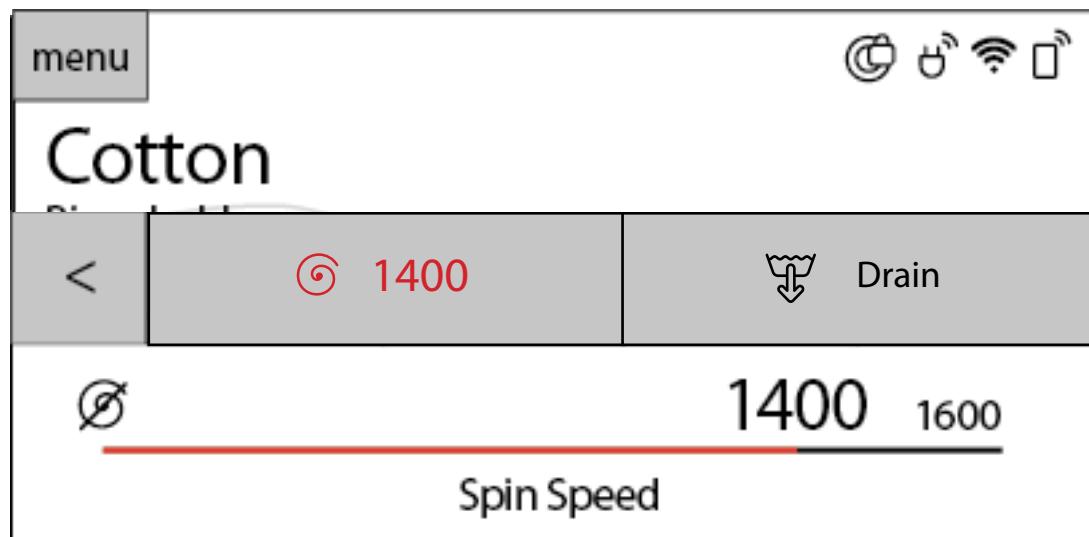


Spin and drain are unselectable in running.

Washer WasherDryer Dryer

Performing rinse hold (FA-ID 620.1)

Rinse hold screen - select drain (Bosch)

 not started in work ui reviewed ic team reviewed all reviewed

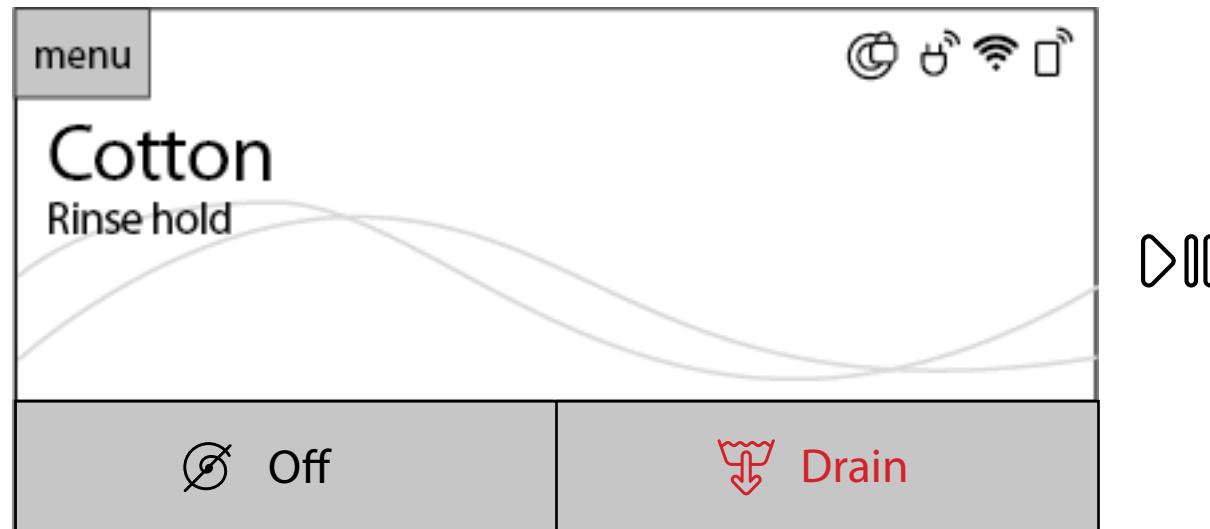
The user can select the drain button to activate or select „no spin“ to activate the drain.

Washer WasherDryer Dryer

Performing rinse hold (FA-ID 620.1)

Rinse hold screen - select drain (Bosch)

not started in work ui reviewed ic team reviewed all reviewed



Press start to continue with draining.

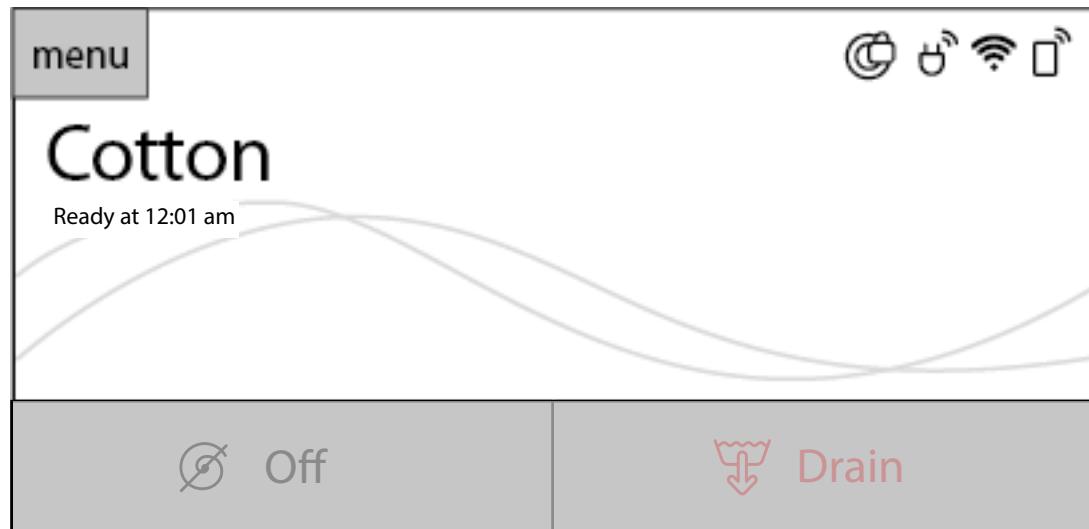


Washer WasherDryer Dryer

Performing rinse hold (FA-ID 620.1)

Rinse hold screen - running drain (Bosch)

not started in work ui reviewed ic team reviewed all reviewed



Spin and drain are unselectable in running.

Starting/Resuming a program (FA-ID 530), Start button indications (UI30)

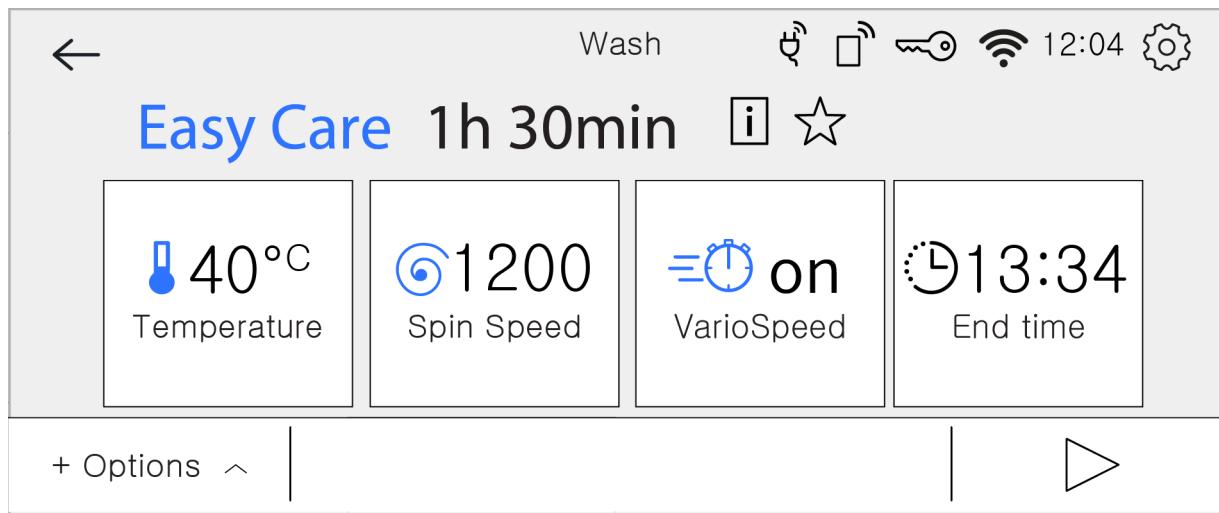
not started in work ui reviewed ic team reviewed all reviewed

Short Description	Technical Details	Use Context	Remarks
<p>When the appliance is in Ready state, the user can start the selected program by actuating the „Start/Pause“ button. If an ending time has been selected, the user can start the „Delayed start“ by actuating the „Start/Pause“ button.</p> <p>When the appliance is in Pause state, the user can actuate the „Start/Pause“ button to continue the paused program.</p>		<p>Use context 1: The user has selected the desired program and options and wants to start the washing/drying process immediately.</p> <p>Use context 2: The user has selected a predefined ending time and starts the „delayed start“ mode before leaving the house.</p> <p>Use context3: The user has paused the program. The door is closed and the user wants to resume the program. He actuates the „Start/Pause“ button.</p>	

Starting/Resuming a program (FA-ID 530), Start button indications (UI30)

Indicate program startable (Siemens)

not started in work ui reviewed ic team reviewed all reviewed



The appliance is in Ready state, door is closed and a program is selected.

The „Start/Pause“ button indicates that the user has to actuate it to start the program: Start symbol flashing with rate 1s on/1s off.

Remark: Keyscreens from where program is startable:

- Configure overview of selected program
- Configure primary parameter
- Configure additional options
- Feature anti-stain list page

Starting/Resuming a program (FA-ID 530), Start button indications (UI30)

Program running screen (Siemens)

not started in work ui reviewed ic team reviewed all reviewed



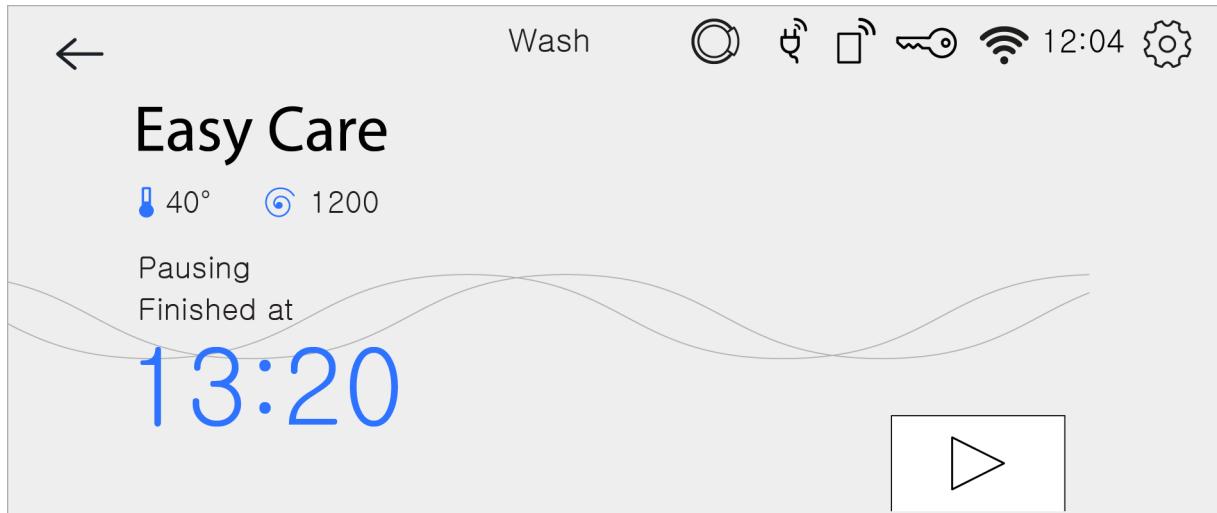
The appliance is in Program running state.

The „Start/Pause“ button indicates that a program is running (Pause symbol continuously on)

Starting/Resuming a program (FA-ID 530), Start button indications (UI30)

Indicate program resumable (Siemens)

- not started in work ui reviewed ic team reviewed all reviewed



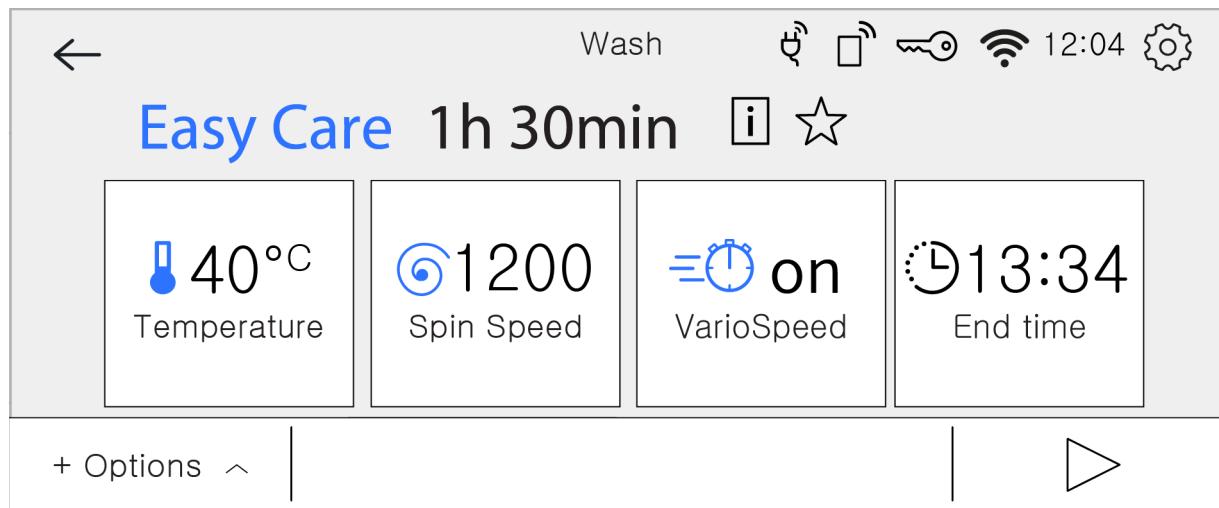
The appliance is in Pause or Rinse hold state, door is closed, program is selected.

The „Start/Pause“ button indicates that the user has to actuate it to resume the program: Start symbol flashing with rate 0.5s on/0.5s off.

Starting/Resuming a program (FA-ID 530), Start button indications (UI30)

Indicate program not startable (Siemens)

not started in work ui reviewed ic team reviewed all reviewed



The „Start/Pause“ button indicates that the function is currently unavailable. But still the button must be visible to give the user the possibility to actuate the button and get information, what he has to do.

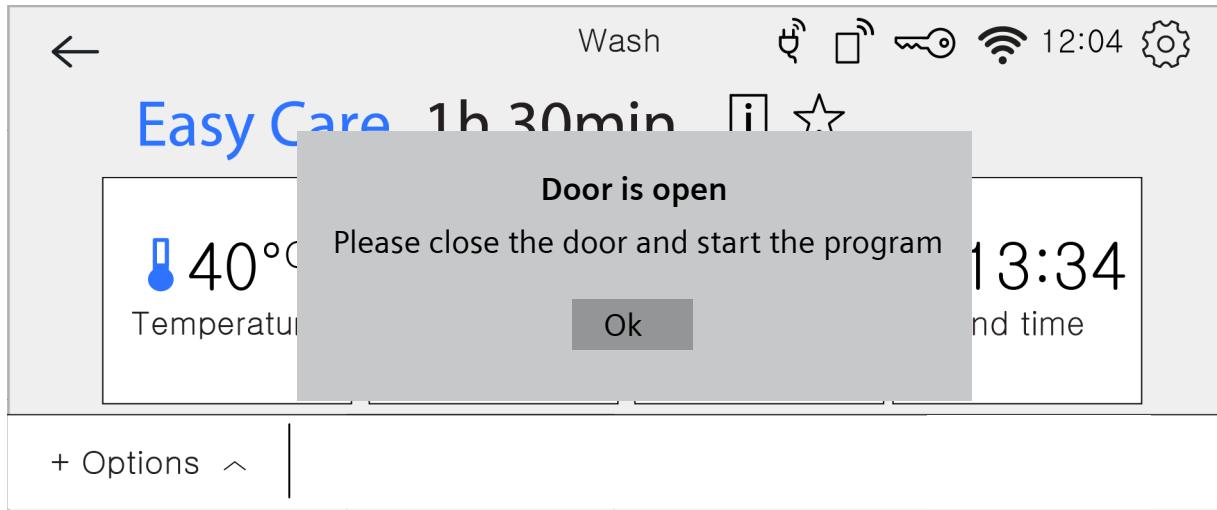
@Siemens Design: how will the indication of the button look like?

Example: If the user actuates the „Start/Pause“ button and the door is open, he will get feedback, that he has to close the door in order to perform the action.

This concept differs from Bosch, because Start/Pause for Siemens is located within the TFT, while for Bosch it is a Toledo button.

Starting/Resuming a program (FA-ID 530), Start button indications (UI30)

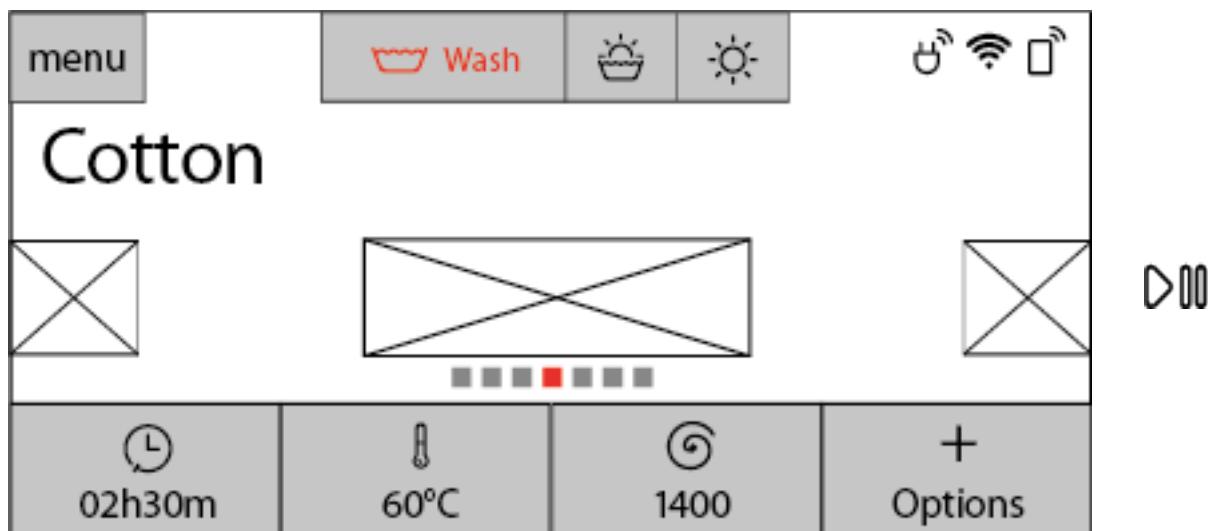
Information screen - Door open (Siemens)

 not started in work ui reviewed ic team reviewed all reviewed

Starting/Resuming a program (FA-ID 530), Start button indications (UI30)

Indicate program startable (Bosch)

not started in work ui reviewed ic team reviewed all reviewed



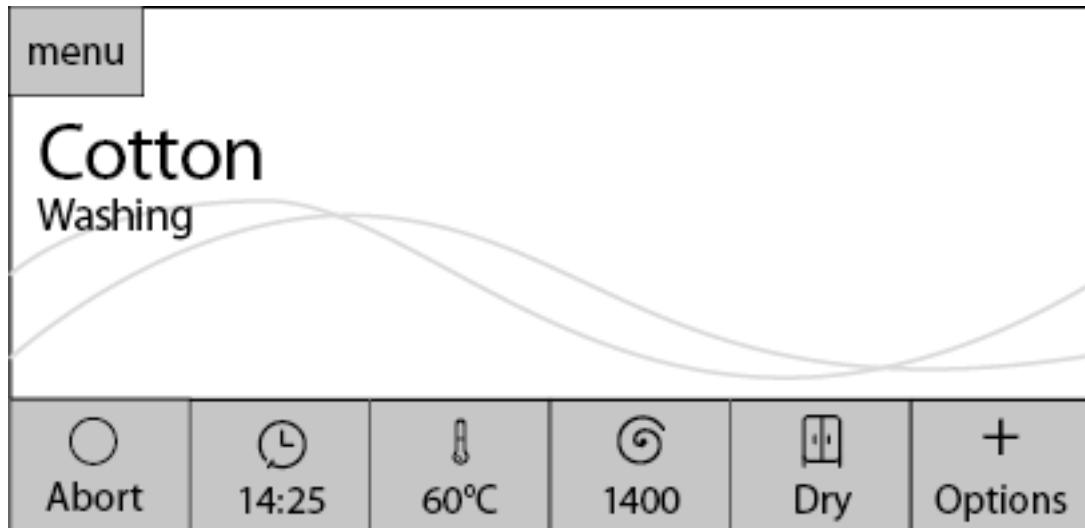
The appliance is in Ready state, Door is closed and a program is selected.

The „Start/Pause“ button indicates that the user has to actuate it to start the program: Start/Pause LED flashing with rate 1s on/1s off.

Remark: A program is startable independently from displayed keyscreen.

Starting/Resuming a program (FA-ID 530), Start button indications (UI30)

Program running screen (Bosch)

 not started in work ui reviewed ic team reviewed all reviewed

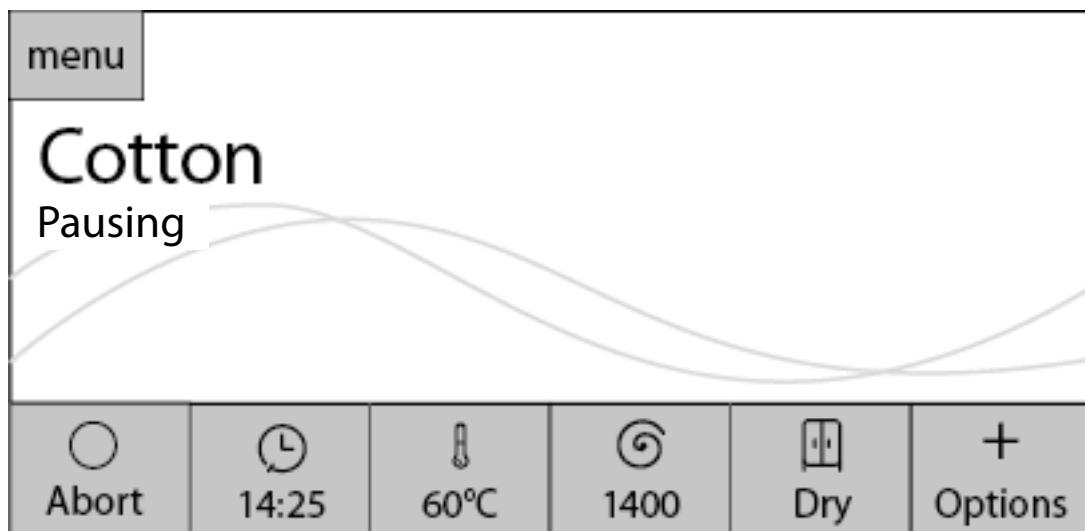
The appliance is in Program running state.

The „Start/Pause“ button indicates that a program is running: „Start/Pause“ button must be lit with 100% brightness.

Starting/Resuming a program (FA-ID 530), Start button indications (UI30)

Indicate program resumable (Bosch)

- not started in work ui reviewed ic team reviewed all reviewed



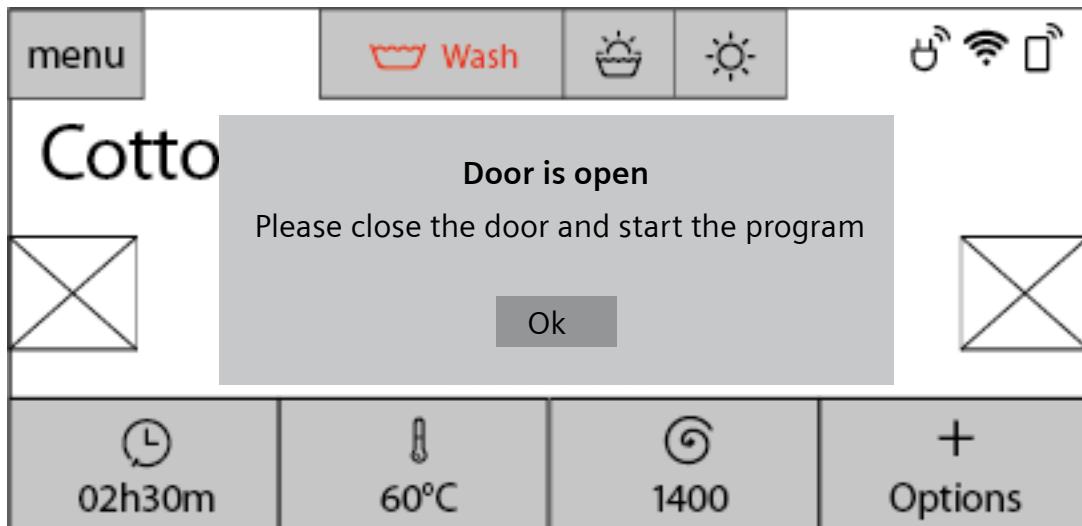
The appliance is in Pause or Rinse hold state, door is closed, program is selected

The „Start/Pause“ button indicates that the user has to actuate it to resume the program: Button LED flashing with rate 0.5s on/0.5s off.

Starting/Resuming a program (FA-ID 530), Start button indications (UI30)

Indicate program not startable (Bosch)

not started in work ui reviewed ic team reviewed all reviewed



The „Start/Pause“ button indicates that the function is currently unavailable. But still the button must be visible to give the user the possibility to actuate the button and get information, what he has to do.

@Bosch Design: how will the indication of the button look like?

Example: If the user actuates the „Start/Pause“ button and the door is open, he will get feedback, that he has to close the door in order to perform the action.

This concept differs from Siemens, because Start/Pause for Siemens is located within the TFT, while for Bosch it is a Toledo button.

Pausing a program (FA-ID 40)

 not started

 in work

 ui reviewed

 ic team reviewed

 all reviewed

Short Description

When the appliance is in Running state or in Delayed start running state, the user can pause the program or delayed start running by actuating the „Start/Pause“ button.

In rare situations pausing can be prohibited by process technique limitations. An impermissible operation feedback should be given to the user.

Washer-dryer: For drying programs, normally the temperature is too high for release the door when user pauses the program, thus a cooling down process will start (see indication „Additional cooling down“).

Technical Details

Dryer: Technically the dryer does not really pause: he aborts the running program, but freezes the remaining time.

Washer-dryer: Shortly after the drying program has started the machine performs the Heating up Measurement (HUM), which detects the loading situation and adapts the drying program. If user pauses the program and opens the door to reload laundry then the loading situation may be changed. But the HUM is not performed again for technical reasons. As a result laundry could be overdried or under-dried. If the user pauses during the heating-up measurement (HU measurement), the HU measurement will be performed again.

Use Context

Use context 1:
The user wants to open the door and add some forgotten laundries or remove some delicate pieces of laundry in the drum that is not suitable for the current cycle.

Use context 2:
The user wants to take a bath and is annoyed by the noise of the dryer. He pauses the running cycle until he will leave the bathroom again.

Use context 3:
The user opens the door because he wants to check the laundry status. But he wants the program to continue afterwards.

Remarks

For washer-dryer, this use case has to be considered together with the use case „Performing additional cooling down“.

Pausing a program (FA-ID 40)

Program running screen - pause allowed (Siemens)

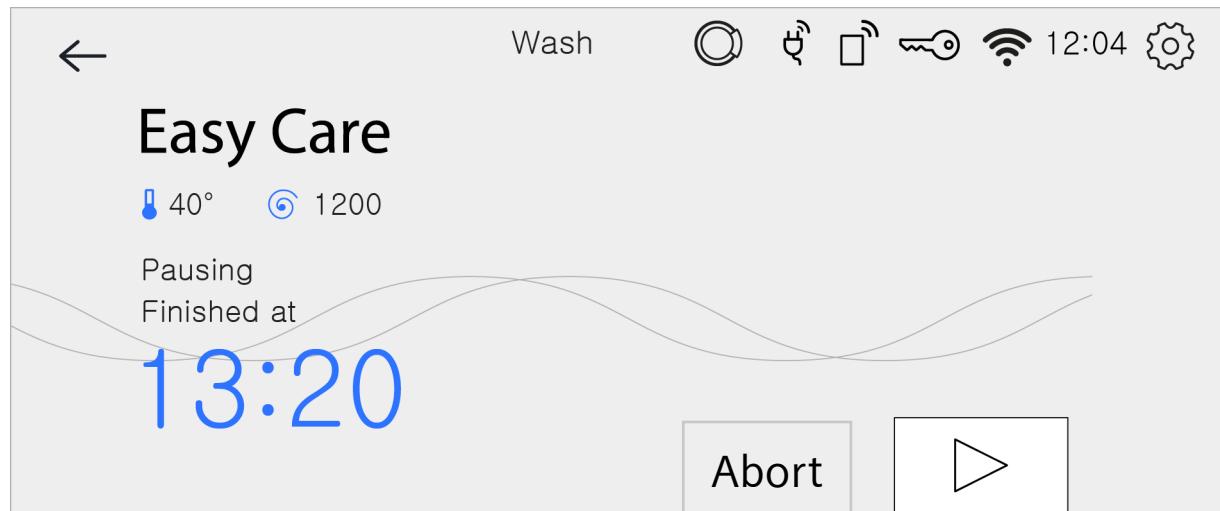
 not started in work ui reviewed ic team reviewed all reviewed

The appliance is in program running or delayed start running state.

The „Start/Pause“ button indicates that the user has to actuate it to pause the program: Pause symbol continuously on.

Pausing a program (FA-ID 40)

Program pause screen (Siemens)

 not started in work ui reviewed ic team reviewed all reviewed


The appliance is in Pause state.

The „Pausing“ program progress must be shown.

The „Start/Pause“ button indicates that the user has to actuate it to resume the program: Start symbol flashing with rate 0.5s on/ 0.5s off.

Remark: if using real time clock to display the finish at time, the „Finished at“ time must be updated while the appliance is in Pause state. The duration of the Pause state must be added to the „Finished at“ time continuously (minute by minute).

If the temperature is higher than the door release temperature, the cooling down process will be started and the display will enter „Confirmation screen - cooling down“, see use case „Performing additional cooling down.“

Pausing a program (FA-ID 40)

Program running screen - pause not allowed (Siemens)

 not started in work ui reviewed ic team reviewed all reviewed


The appliance is in program running or delayed start running state.

The „Start/Pause“ button indicates that the function is currently unavailable. But still the button must be visible to give the user the possibility to actuate the button and get information, what he has to do.

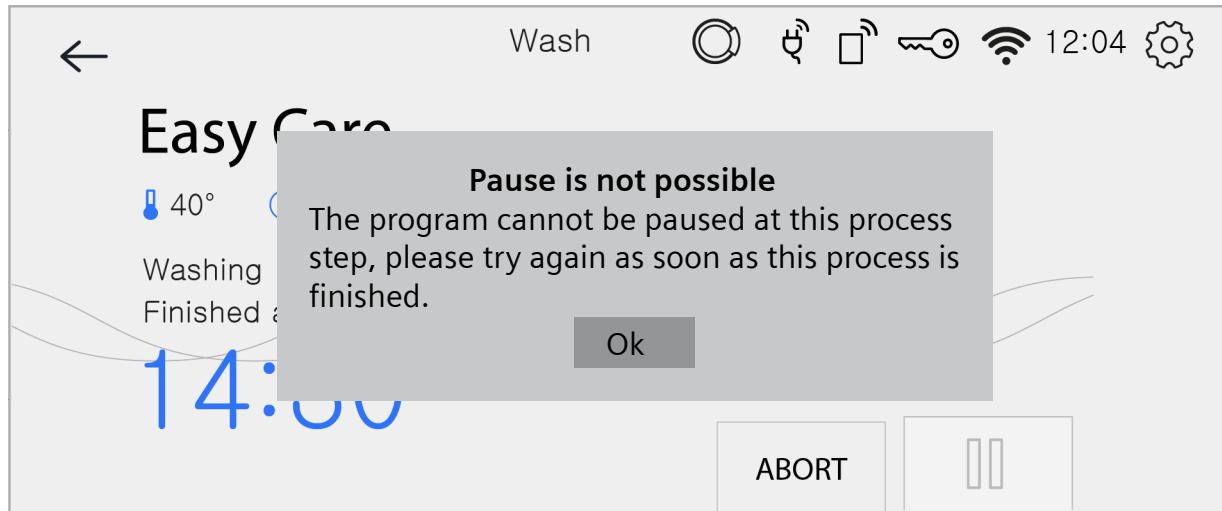
@Siemens Design: how will the indication of the button look like?

● Washer ● WasherDryer ● Dryer

Pausing a program (FA-ID 40)

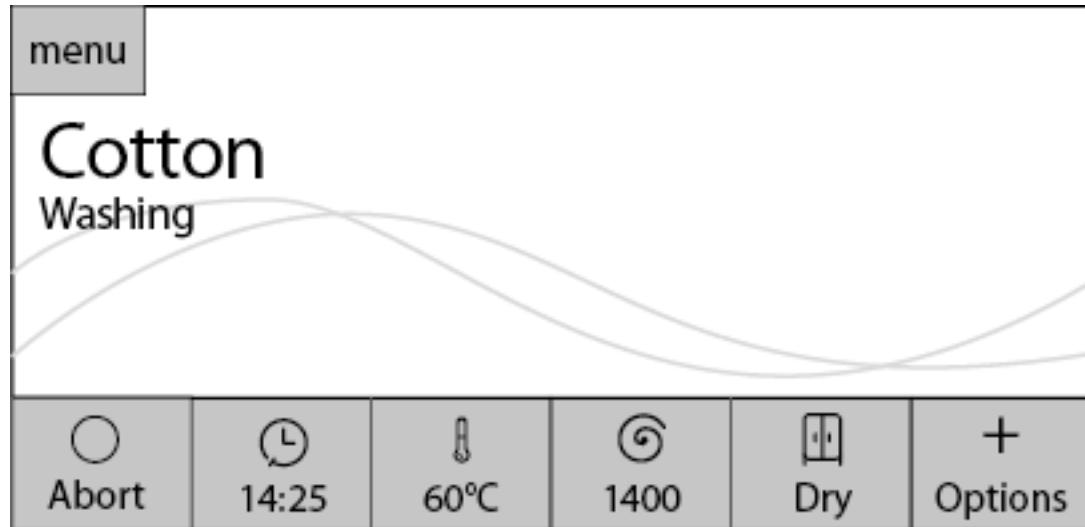
Pause not allowed message screen (Siemens)

○ not started ○ in work ● ui reviewed ○ ic team reviewed ○ all reviewed



Pausing a program (FA-ID 40)

Program running screen - pause allowed (Bosch)

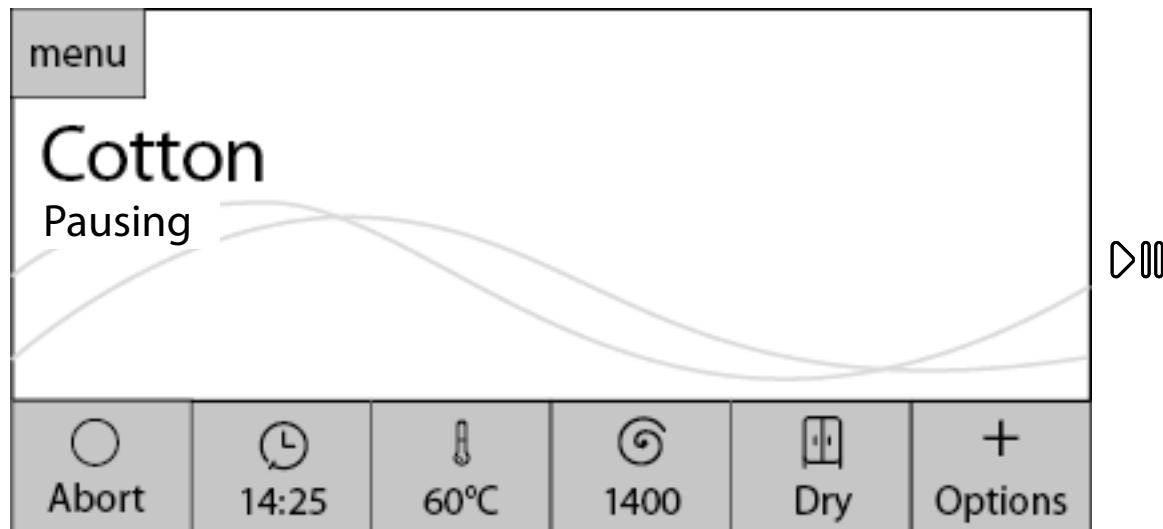
○ not started ○ in work ● ui reviewed ○ ic team reviewed ○ all reviewed


The appliance is in program running or delayed start running state.

The „Start/Pause“ button indicates that the program is currently running: The Start/Pause button must be lit with 100% brightness. The user has to actuate it to pause the program.

Pausing a program (FA-ID 40)

Program pause screen (Bosch)

○ not started ○ in work ● ui reviewed ○ ic team reviewed ○ all reviewed


If the temperature is higher than the door release temperature, the cooling down process will be started and the display will enter „Confirmation screen - cooling down“, see use case „Performing additional cooling down.“

The appliance is in Pause state.

The „Pausing“ program progress must be shown.

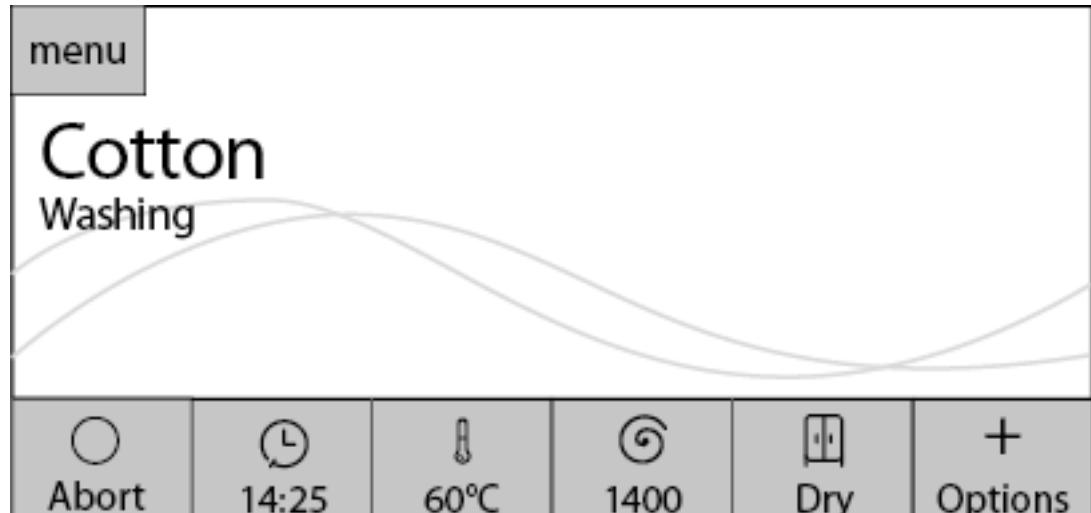
The „Start/Pause“ button indicates that the user has to actuate it to resume the program: The Start/Pause button LED is flashing with rate 2 0.5s on/0.5s off.

Remark: if using real time clock to display the finish at time, the „Finished at“ time must be updated while the appliance is in Pause state. The duration of the Pause state must be added to the „Finished at“ time continuously (minute by minute).

Pausing a program (FA-ID 40)

Program running screen - pause not allowed (Bosch)

not started in work ui reviewed ic team reviewed all reviewed



The appliance is in program running or delayed start running state.

The „Start/Pause“ button indicates that the program is currently running: The Start/Pause button must be lit with 100% brightness.

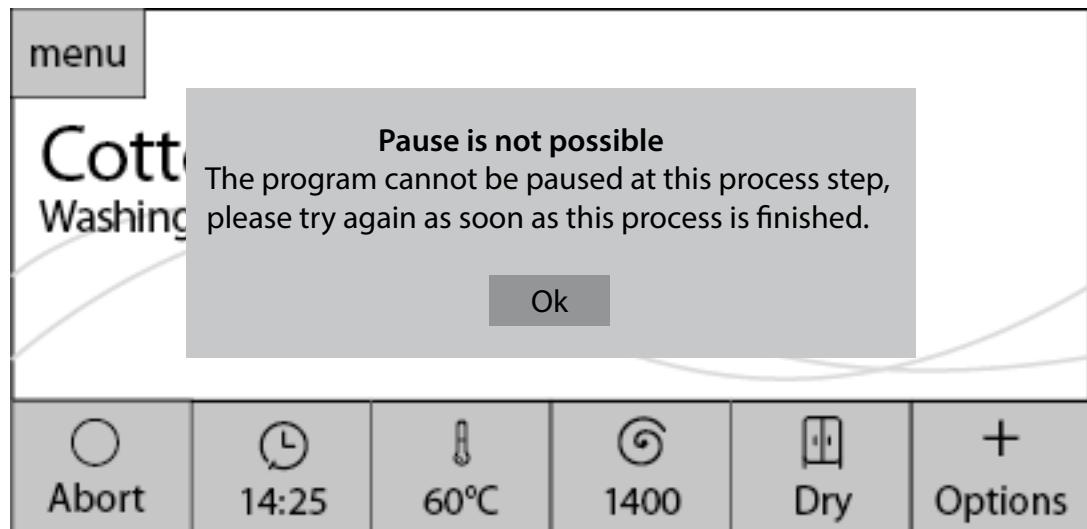
If the user actuates the button he will get information, what he has to do.

Washer WasherDryer Dryer

Pausing a program (FA-ID 40)

Pause not allowed message screen (Bosch)

not started in work ui reviewed ic team reviewed all reviewed



▷||

Aborting a program (FA-ID 565)

 not started

 in work

 ui reviewed

 ic team reviewed

 all reviewed

Short Description

Like for washing phases, the user is able to abort a program almost in any time while program is running for drying programs.

For drying phases, normally the temperature is too high for release the door after user aborted the program, thus a cooling down process will start (see raw concept „Additional cooling down“).

Technical Details

If a running drying phase has been aborted AND temperature is higher than a defined threshold a cooldown must be performed.

Use Context

User context 1:
The user wants to withdraw an action in order to prevent shrinking, discolor etc. of the laundry (e.g. wrong program selected, too high temperature)

User context 2:
The user has started a program but needs to leave the house and does not want that the appliance to keep on running.

User context 3:
The user wants to abort the running program because he noticed an abnormal behavior of the device and wants to check it out before any other action.

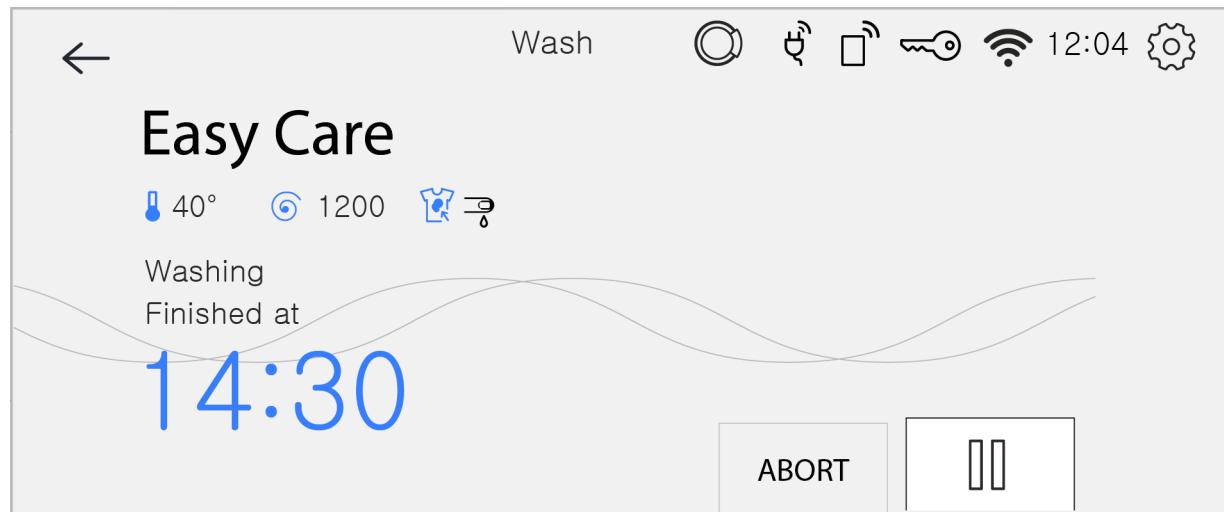
Remarks

No special differentiation on this use case for WashDryer compared with Washer. But for WashDryer, this use case has to be considered together with the use case „Additional cooling down“.

Washer WasherDryer Dryer

Aborting a program (FA-ID 565)

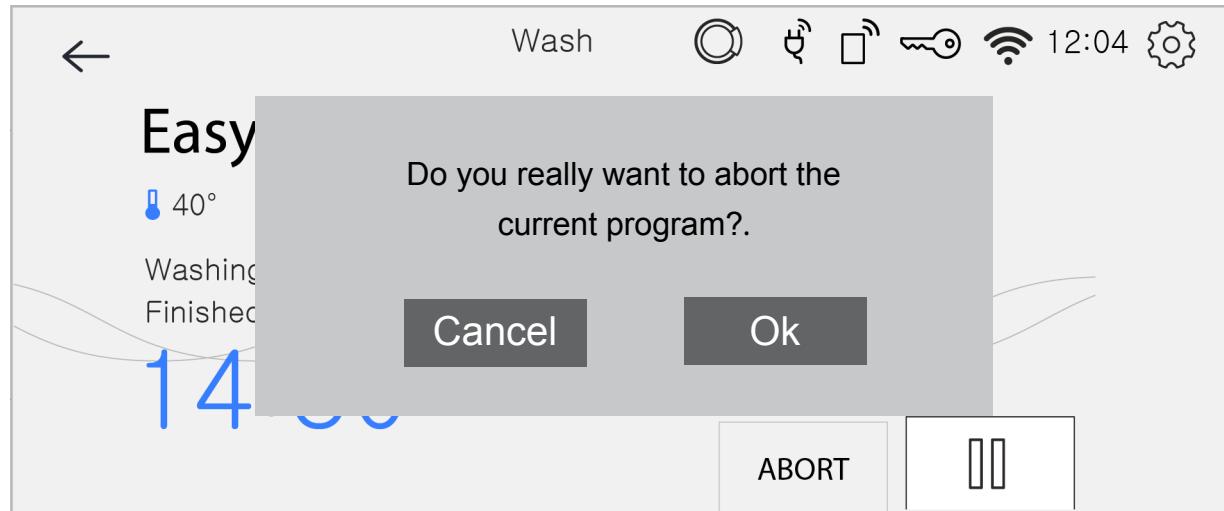
Program running screen (Siemens)

 not started in work ui reviewed ic team reviewed all reviewed**UI requirements:**

Washer WasherDryer Dryer

Aborting a program (FA-ID 565)

Aborting program message screen - (Siemens)

 not started in work ui reviewed ic team reviewed all reviewed**UI requirements:**

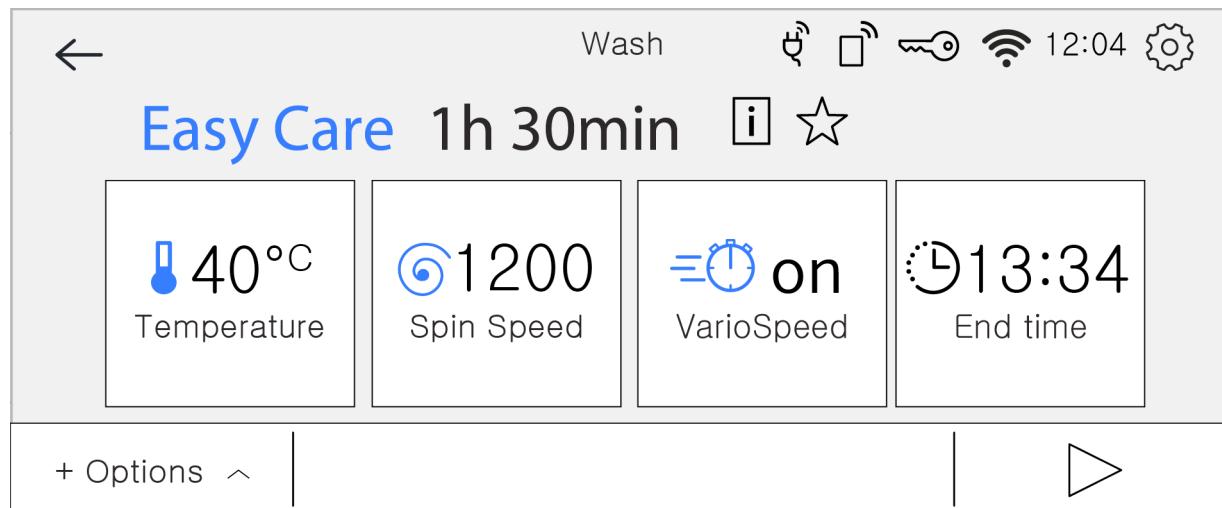
Message type: confirmation

Aborting a program (FA-ID 565)

Washer WasherDryer Dryer

Aborting a program (FA-ID 565)

Program ready state screen - (Siemens)

 not started in work ui reviewed ic team reviewed all reviewed

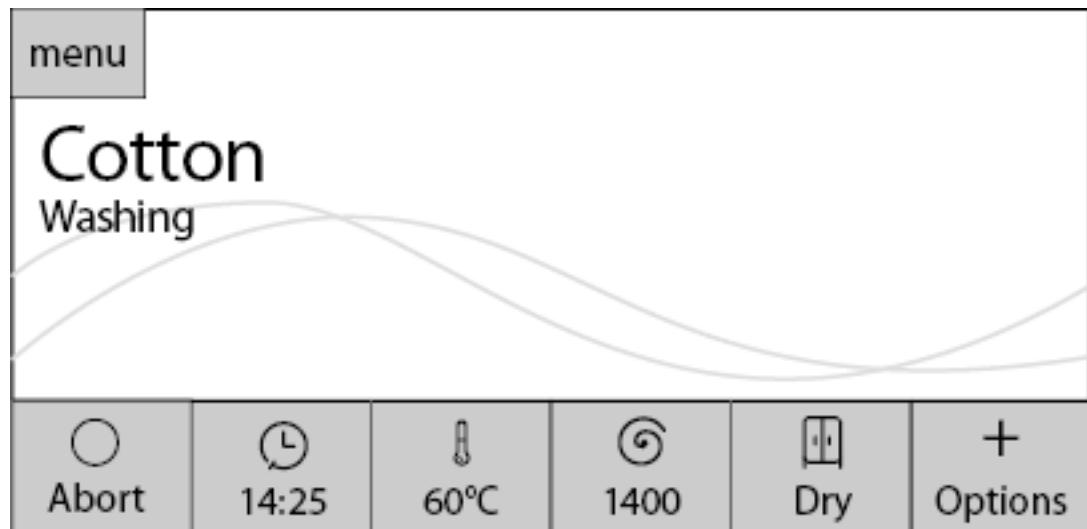
Settings of parameters and options that have been made for this program are restored, but remaining time is re-set to default.

Washer WasherDryer Dryer

Aborting a program (FA-ID 565)

Program running screen (Bosch)

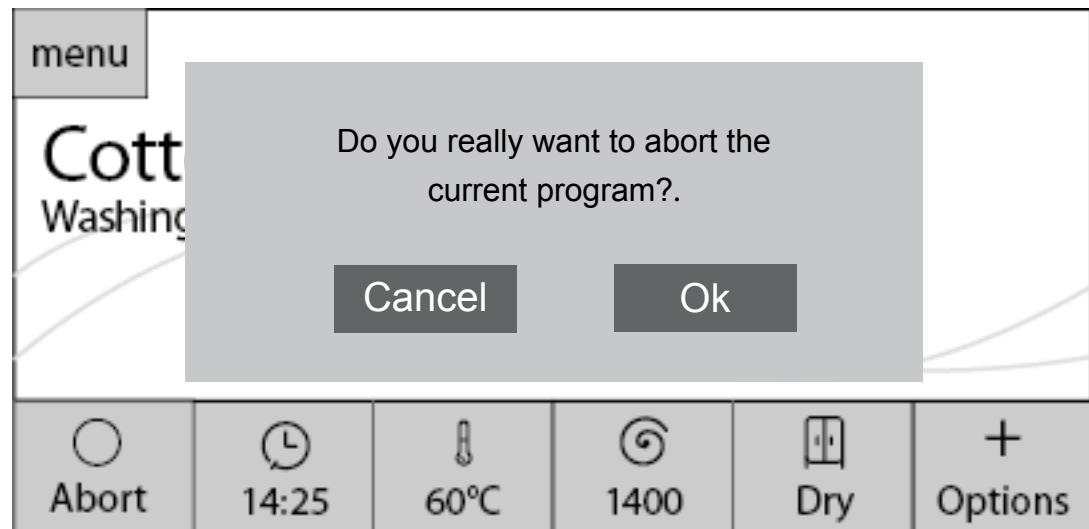
not started in work ui reviewed ic team reviewed all reviewed



Washer WasherDryer Dryer

Aborting a program (FA-ID 565)

Aborting program message screen - (Bosch)

 not started in work ui reviewed ic team reviewed all reviewed**UI requirements:**

Message type: confirmation

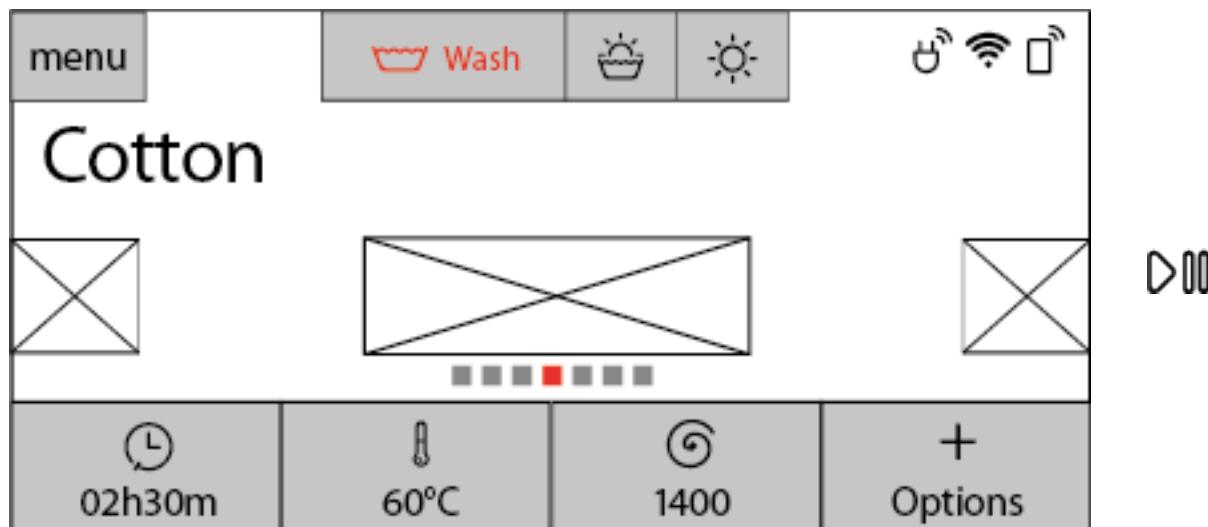


Washer WasherDryer Dryer

Aborting a program (FA-ID 565)

Program ready state screen - (Bosch)

not started in work ui reviewed ic team reviewed all reviewed



Settings of parameters and options that have been made for this program are restored, but remaining time is re-set to default.

Ending a program

 not started in work ui reviewed ic team reviewed all reviewed

Short Description

W/WD: Displays the ending of a program after running state.

Technical Details

D: Displays the ending of program, the entire process - the drying process as well as the wrinkleguard is finished.

There is a visual indication and an acoustic signal to call the user to the appliance..

Use Context

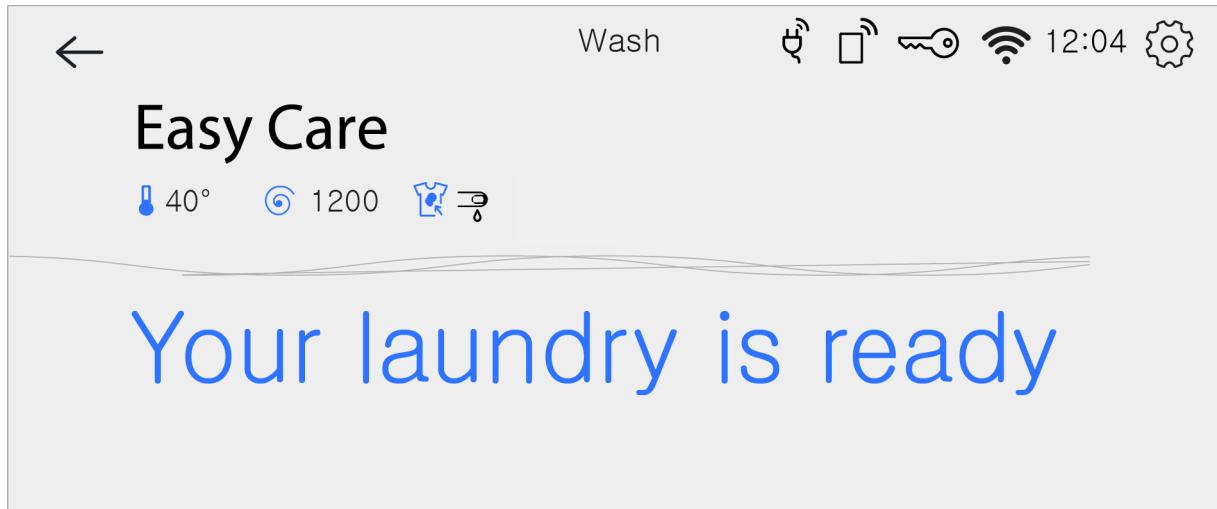
Remarks

● Washer ● WasherDryer ● Dryer

Ending a program

Indication program finished (Siemens)

○ not started ○ in work ● ui reviewed ○ ic team reviewed ○ all reviewed

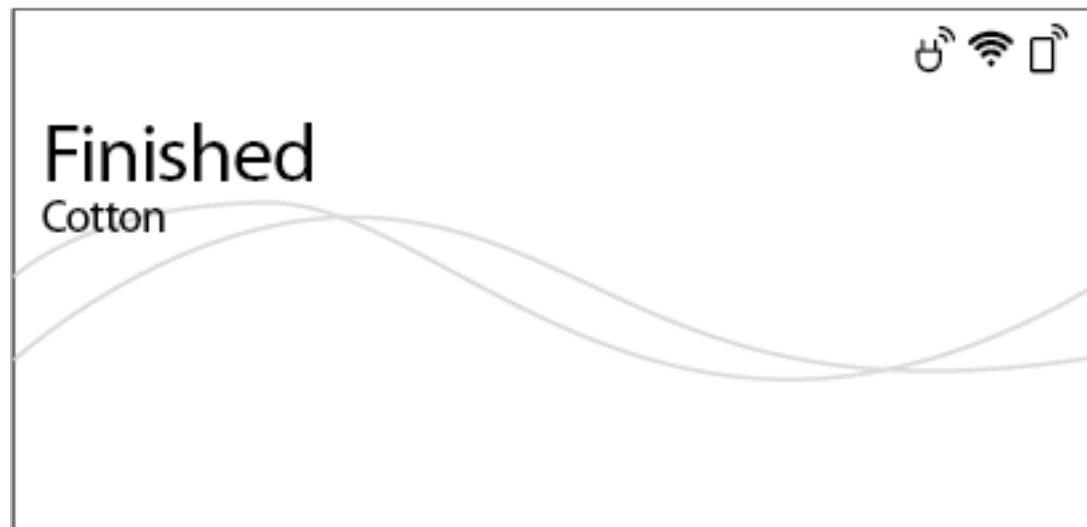


UI requirements:

Ending a program

Indication program finished (Bosch)

○ not started ○ in work ● ui reviewed ○ ic team reviewed ○ all reviewed



UI requirements:

Performing factory tests (FA-ID 200)

not started in work ui reviewed ic team reviewed all reviewed

Short Description	Technical Details	Use Context	Remarks
<p>After assembly of the appliance in the factory, the appliance will be tested automatically on production line.</p> <p>The feature Performing factory tests includes the following Use Cases:</p> <ul style="list-style-type: none">Setting the test flag for factory test modeSelecting the factory test programEntering/executing factory test modeLeaving factory test mode			

Setting the test flag for factory test mode (FA-ID 220.0)

 not started  in work  ui reviewed  ic team reviewed  all reviewed

Short Description

The Factory test mode is only executed, if a test flag has been set for the corresponding appliance. Usually the test flag is set automatically in the factory by setting a special bit in the power unit. If a Factory test has to be performed again, it is necessary to set the factory test flag by user operation. The factory test could include three parts. For washer dryer or solodryer, the process technique may need to be uploaded to power unit, thus the so called „VT upload“ must be performed. If the VT upload has been performed already then this step will has no display. The second part is the WiFi test which is used for appliance with HomeConnect. The third part is the End of line test where the factory test program must run.

Technical Details

Due to high time pressure in the factory test and for the customer service, setting the test flag must be easily accessible.

Use Context

An appliance has to run again through the Factory test mode, the case could be there is an error occurred in production line. After fixing the error, the appliance must go through the factory test program again. The tester needs to set the test flag manually.

Remarks

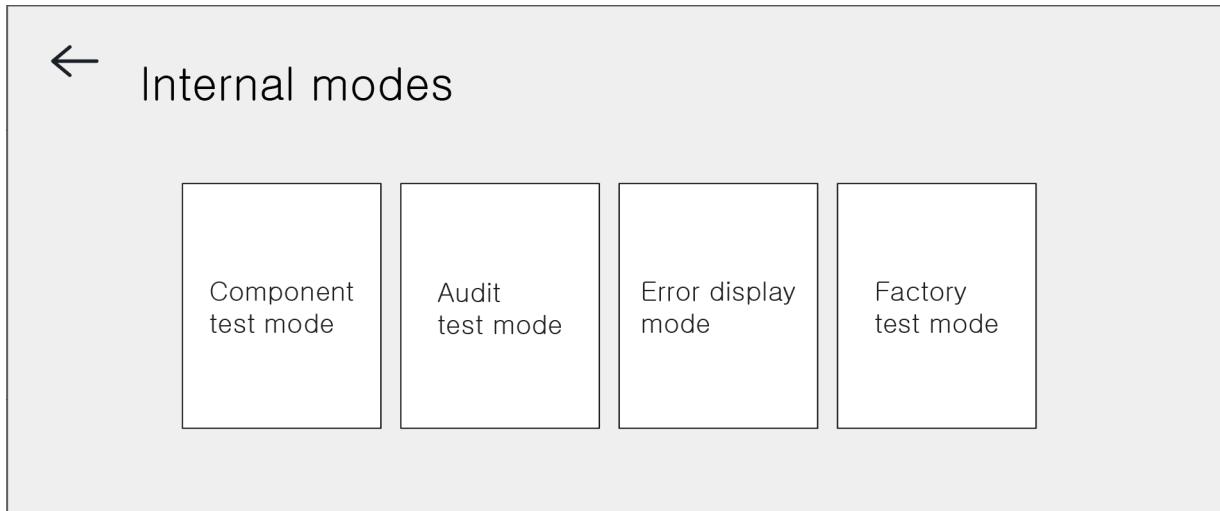
The sequence for VT upload and WiFi test for factory test is still under discussion. The display content and working principle keep unchanged. After the final discussion reached, the remark will be removed and the requirement will be updated if necessary.

Washer WasherDryer Dryer

Setting the test flag for factory test mode (FA-ID 220.0)

Technical modes screen - Select factory test mode - Siemens

not started in work ui reviewed ic team reviewed all reviewed



Washer WasherDryer Dryer

Setting the test flag for factory test mode (FA-ID 220.0)

Factory test mode screen - Setting the test flag - Siemens

not started in work ui reviewed ic team reviewed all reviewed

Factory Test flag is set.

Pull Plug to exit. Plug on again to perform the factory test.
Switch the appliance off to reset factory test flag.

Factory test variant: 3

Change Variant

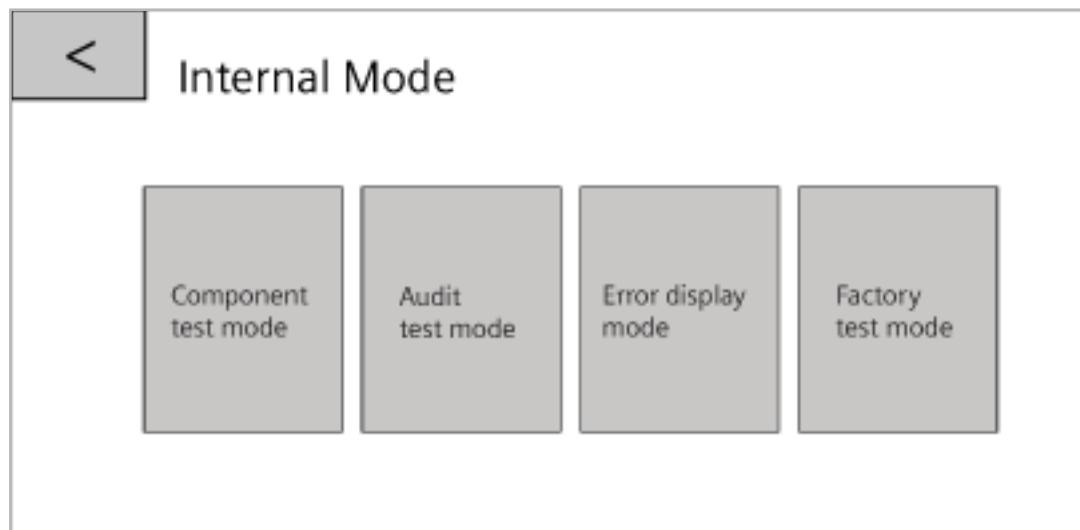
Any operation on the touch screen except the button „Change variant“ will be ignored. Only sound for impermissible operation will be issued.

Washer WasherDryer Dryer

Setting the test flag for factory test mode (FA-ID 220.0)

Technical modes screen - Selecting factory test mode - Bosch

not started in work ui reviewed ic team reviewed all reviewed



Setting the test flag for factory test mode (FA-ID 220.0)

Factory test mode screen - Setting the test flag - Bosch

not started in work ui reviewed ic team reviewed all reviewed

Factory Test flag is set.

Pull Plug to exit. Plug on again to perform the factory test.
Switch the appliance off to reset factory test flag.

Factory test variant: 3

Change Variant

Any operation on the touch screen except the button „Change variant“ will be ignored. Only sound for impermissible operation will be issued.

Selecting factory test program (FA-ID 220.0)

not started in work ui reviewed ic team reviewed all reviewed

Short Description

For different factories, different factory test program variant should be selected.

Technical Details

For the first time production in factory, the right program variant should already been embedded in the software.

Use Context

The operator can choose the right factory test program according to the factory.

Remarks

Selecting factory test program (FA-ID 220.0)

Factory test mode screen - Change variant - Siemens

 not started in work ui reviewed ic team reviewed all reviewed

Factory Test flag is set.

Pull Plug to exit. Plug on again to perform the factory test.
Switch the appliance off to reset factory test flag.

Factory test variant: 3

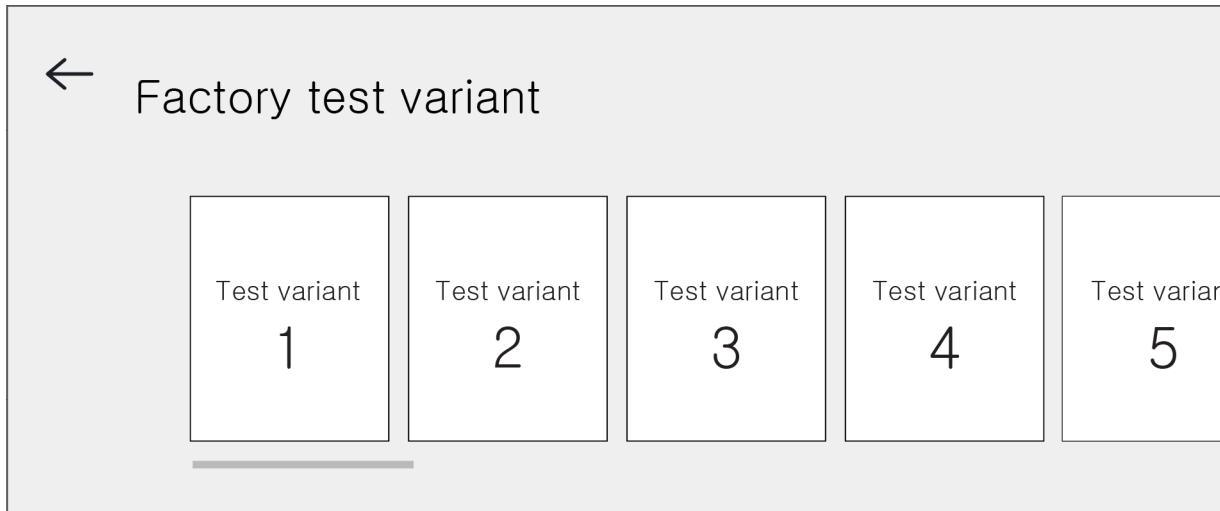
Change Variant

Any operation on the touch screen except the button „Change variant“ will be ignored. Only sound for impermissible operation will be issued.

Washer WasherDryer Dryer

Selecting factory test program (FA-ID 220.0)

Factory test mode screen - Select test variant - Siemens

 not started in work ui reviewed ic team reviewed all reviewed

Selecting factory test program (FA-ID 220.0)

Factory test mode screen - Change variant - Siemens

not started in work ui reviewed ic team reviewed all reviewed

Factory Test flag is set.

Pull Plug to exit. Plug on again to perform the factory test.
Switch the appliance off to reset factory test flag.

Factory test variant: 2

Change Variant

Any operation on the touch screen except the button „Change variant“ will be ignored. Only sound for impermissible operation will be issued.

Selecting factory test program (FA-ID 220.0)

Factory test mode screen - Change variant - Bosch

not started in work ui reviewed ic team reviewed all reviewed

Factory Test flag is set.

Pull Plug to exit. Plug on again to perform the factory test.
Switch the appliance off to reset factory test flag.

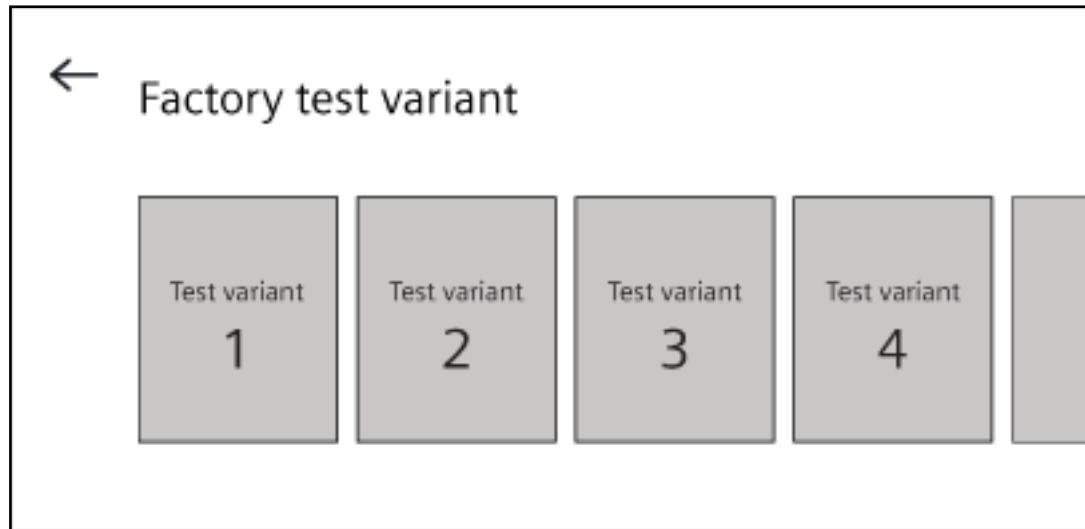
Factory test variant: 3

Change Variant

Any operation on the touch screen except the button „Change variant“ will be ignored. Only sound for impermissible operation will be issued.

Selecting factory test program (FA-ID 220.0)

Factory test mode screen - Select test variant - Bosch

 not started in work ui reviewed ic team reviewed all reviewed

Washer WasherDryer Dryer

Selecting factory test program (FA-ID 220.0)

Factory test mode screen - Change variant - Bosch

not started in work ui reviewed ic team reviewed all reviewed

Factory Test flag is set.

Pull Plug to exit. Plug on again to perform the factory test.
Switch the appliance off to reset factory test flag.

Factory test variant: 2

Change Variant

Any operation on the touch screen except the button „Change variant“ will be ignored. Only sound for impermissible operation will be issued.

Entering / Executing factory test mode (FA-ID 220.0)

not started in work ui reviewed ic team reviewed all reviewed

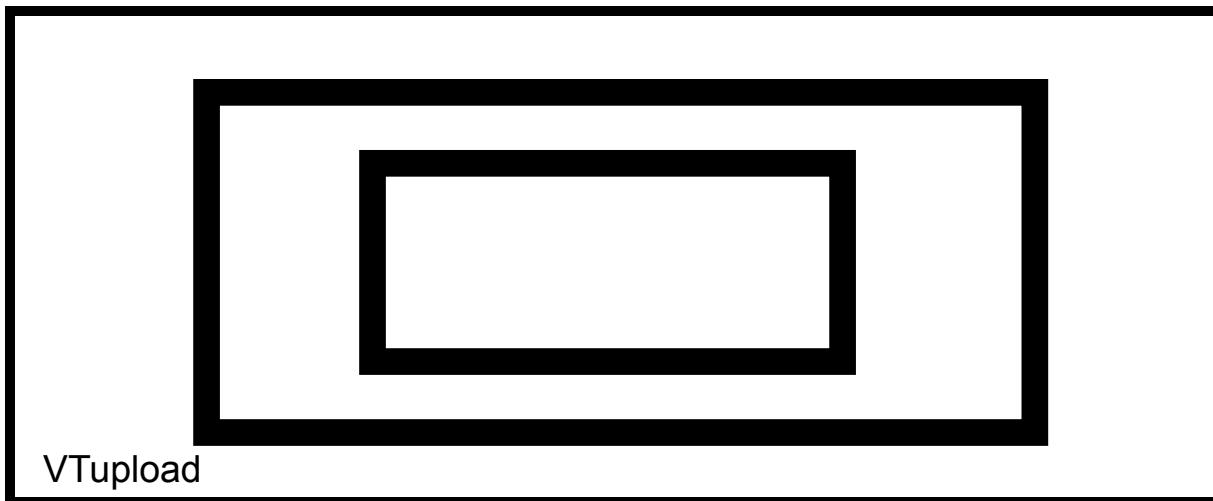
Short Description	Technical Details	Use Context	Remarks
Pull plug to power off the appliance, and connecting the mains plug to the electric supply network activates the factory test mode in case that the test flag is set. The factory test mode is used for testing the appliance after it was built in the factory.			

Washer WasherDryer Dryer

Entering / Executing factory test mode (FA-ID 220.0)

Factory test mode screen - VTupload - Siemens

not started in work ui reviewed ic team reviewed all reviewed



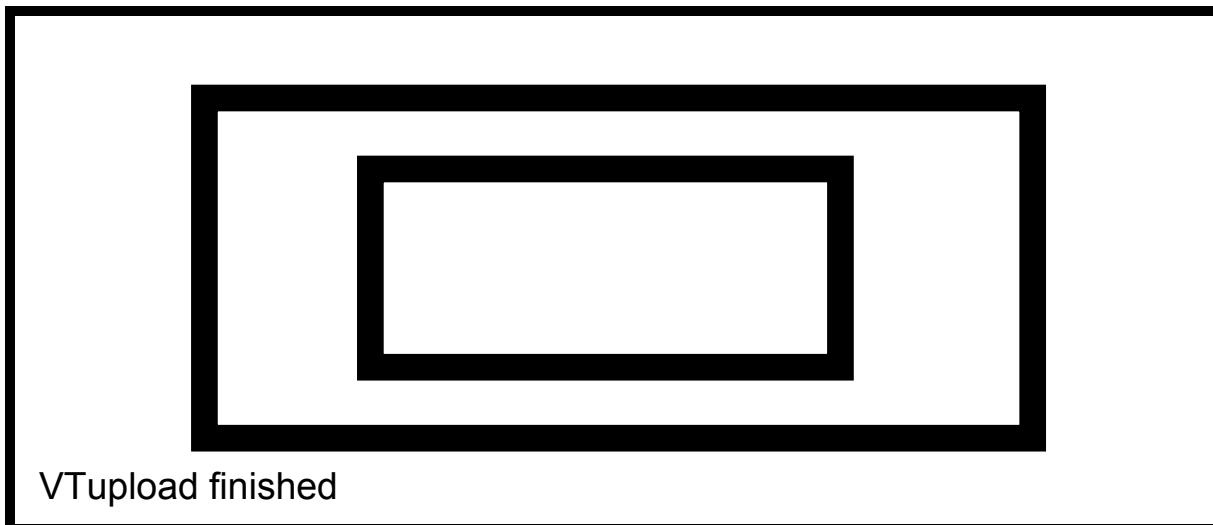
VTupload on going.

Washer WasherDryer Dryer

Entering / Executing factory test mode (FA-ID 220.0)

Factory test mode screen - VTupload - Siemens

not started in work ui reviewed ic team reviewed all reviewed



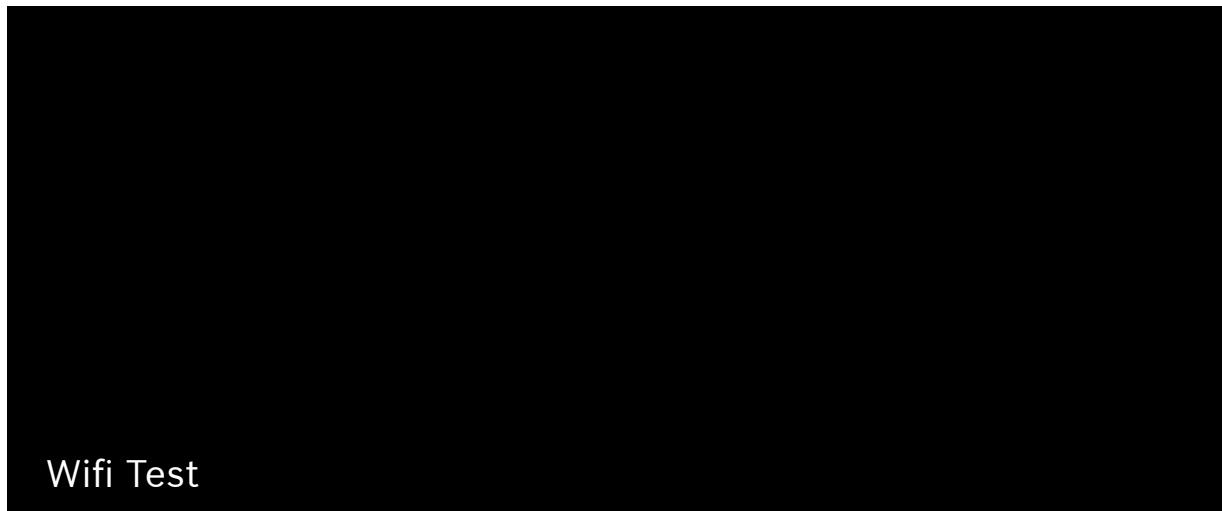
Pulling the plug and plug on again to go to the next step.

Washer WasherDryer Dryer

Entering / Executing factory test mode (FA-ID 220.0)

Factory test mode screen - Wifi test - Siemens

not started in work ui reviewed ic team reviewed all reviewed



Wifi test on going.

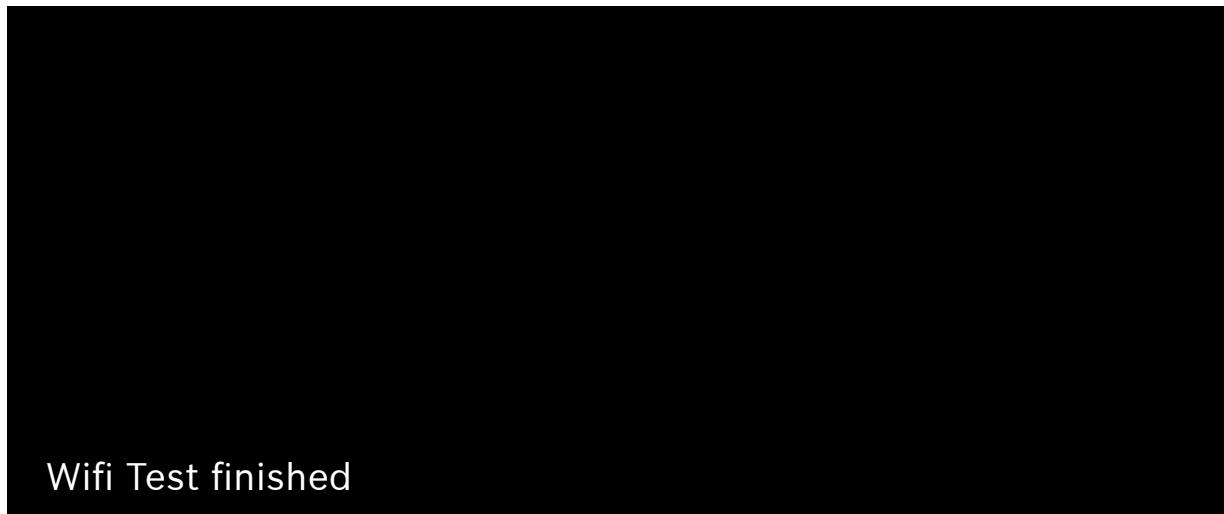
When the wifi test is finished, the appliance is powered off by pulling the plug and powered on with plug on again.

Washer WasherDryer Dryer

Entering / Executing factory test mode (FA-ID 220.0)

Factory test mode screen - Wifi test - Siemens

not started in work ui reviewed ic team reviewed all reviewed



Wifi test on going.

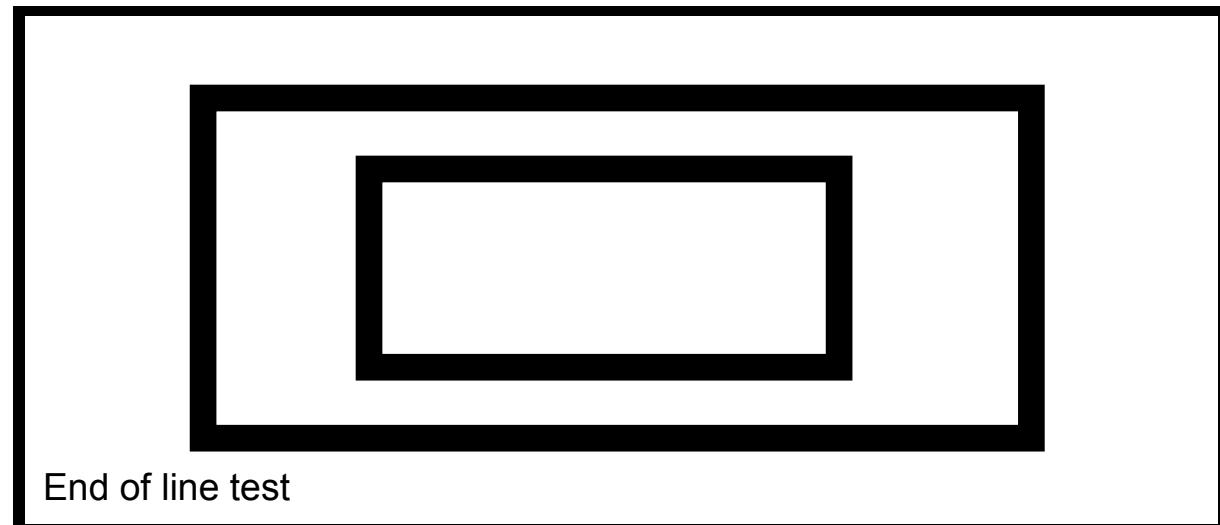
When the wifi test is finished, the appliance is powered off by pulling the plug and powered on with plug on again.

Washer WasherDryer Dryer

Entering / Executing factory test mode (FA-ID 220.0)

Factory test mode screen - End of line test - Siemens

not started in work ui reviewed ic team reviewed all reviewed



End of line test on going.

Entering / Executing factory test mode (FA-ID 220.0)

Factory test mode screen - Factory test finished - Siemens

not started in work ui reviewed ic team reviewed all reviewed

Factory test variant 1

Finished

Entering / Executing factory test mode (FA-ID 220.0)

Factory test mode screen - Error message - Siemens

not started in work ui reviewed ic team reviewed all reviewed



Error X : 1234

Information about
Test problems.

Leaving factory test mode (FA-ID 220.0)

not started in work ui reviewed ic team reviewed all reviewed

Short Description	Technical Details	Use Context	Remarks
The tester in the factory can terminate the factory test mode by switching the appliance off. Upon next switch on it will start up in normal mode again. Alternatively, it can be configured to continue also in normal mode after mains blackout.			

Co-applying documents

Co-applying documents

- **OT basic UI concept:** \\tcc.bsh-partner.com@SSL\DavidWWWRoot\sites\00050050\padua\Projectfolder\060_PT_Marketing\070_User_Interface\40_Basic_concept\OT-MT-GT-control\Basic_UI-concept_PADUA-OT.pptx
- **1st raw concept usability test result:** \\tcc.bsh-partner.com@SSL\DavidWWWRoot\sites\00050050\padua\Projectfolder\060_PT_Marketing\070_User_Interface\90_Usability_tests\OT-MT-GT-control\02_Raw_Concept\1st_usability_test\03_Results\PADUA_UI_test_rawconcept_result.pdf
- **1st raw concept usability test measure list with prioritization:** \\tcc.bsh-partner.com@SSL\DavidWWWRoot\sites\00050050\padua\Projectfolder\060_PT_Marketing\070_User_Interface\90_Usability_tests\OT-MT-GT-control\02_Raw_Concept\1st_usability_test\03_Results\Measures_list_first_rawconcept.xlsx