User manual

TechniSat CONNECT App,
TechniSat SMARTHOME enabled Digital TVs and Set Top Boxes,
TechniSat SMARTHOME central units

TechniSat

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2 Foreword

Your digital home, perfectly simple to use..

What might your digital home look like in the future? Will you watch and record your favorite series on TV? Will you have your favorite videos and vacation pictures on a hard drive on your local network? Will you listen to music in every room and have the security and energy consumption of your Smart Home at your fingertips?

Until now, all these applications have had separate solutions. What would it be like if you could control all these things from one place? Without barriers, perfectly easily and intuitively from a single app?

We develop technologies with maximum convenience for the user. TechniSat CONNECT is a new mobile app for controlling a range of products for maximum Made in Germany user convenience, developed at the **TechniSat** Research and Development Center in Dresden.

The TechniSat CONNECT app comes with various modules for you to control specific functions.

Control: Control your TechniSat TV, receiver or radio from your smartphone or tablet.

SFI: Your digital program guide with a clear list of channels and timer programming with simple interface.

Smart Home: Control your networked home and get an overview of all your installed Smart Home components.

2.1 User manual formatting

Different elements in this user manual are indicated by defined formatting.
You can then easily distinguish between:

normal Text,

- lists, and

> actions.

3.1 Smart Home functionality

Experience new solutions for a smart home that gives you security, while also controlling and organizing the flow of energy in your household efficiently and conveniently, saving energy, lowering your energy bills and reducing your impact on the environment. **Smart Home** also controls a range of at-home automation components intelligently as well. And all easily, intuitively and without wires - from home and on the move. Turning your smartphone or tablet into a Smart Home command center for security and energy efficiency.

Smart Home is designed for you to use all the functions of your smart home automation at home, even if you are not connected to the Internet.

You simply need to connect the central unit to your home network. Once connected, it is the heart of the **Smart Home** and fully integrated into your existing home network. You can then gradually connect your separate components to the central unit and start controlling immediately them from your smartphone, your tablet or a **TechniSat Smart Home** device.

Your devices can be programmed and you can create scenarios to automate specific sequences directly from your tablet or smartphone using the TechniSat CONNECT app.

3.2 Z-Wave

Available peripheral devices (except cameras) are controlled with the Z-Wave standard. This allows you to control and configure your devices without wires and to read specific values, such as temperature or alarms.

Peripheral devices that are not battery-operated act as repeaters to extend the range of the Z-Wave network, even with devices from other manufacturers.

This product can be operated in any Z-Wave network with other Z-Wave certified devices from other manufacturers. All non-battery operated nodes within the network will act as repeaters regardless of vendor to increase reliability of the network.

3.2.1 Z-Wave Plus

This device is a security enabled Z-Wave Plus product that is able to use encrypted Z-Wave Plus messages to communicate to other security enabled Z-Wave Plus products.

3.2.2 Basic command class

This device ignores Basic commands.

4 Enable and configure Smart Home on the receiver

Smart Home functionality must be enabled on your digital receiver before you can use it. Only once it has been enabled can you add your peripheral devices to the central unit.

Please note that your digital receiver (central unit) must be on the same network as the smartphone or tablet you are using for in- and exclusion and control.
Smart Home network devices, such as indoor/outdoor cameras, must also be on the same network.

> Connect your SMARTHOME receiver, tv or central unit to your home network.

You can connect over LAN or use the integrated Wi-Fi.
To enable the Smart Home function, proceed as follows:

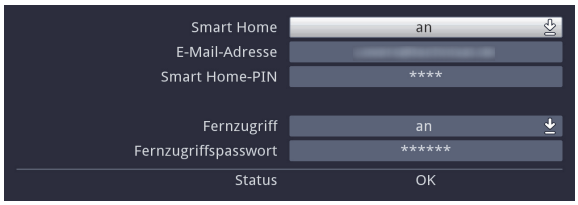
> Open the receiver's **Menu** by pressing the **Menu button** on the remote control.

> Use the **arrow buttons** and the **OK button** to navigate to **Settings** > **Advanced** > **Smart Home**.

> **Enable** the **Smart Home** option.

> Enter a valid email address in **Email address** box.

> Enter a secure password in the **Password** box.



The TechniSat CONNECT app uses this information (email address and password) to connect to the central unit.

> Press the **green button** to save your settings.

4.1 Remote access

Enable remote access to get access when you are on the move as well.

4.2 Smart Home on receiver

To use **Smart Home** peripheral devices or to monitor their indicators, proceed as follows:

> Press the **OPT button** on the remote control repeatedly until **Smart Home** is highlighted.

> Then select e.g. **Overview** by pressing the **OK button**.

Favourite devices, **All devices** and the **Rooms** you have created are shown on the Overview screen.

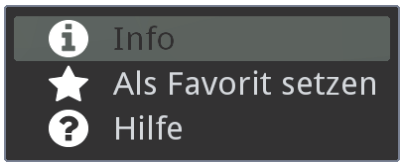
> Alternatively, use **arrow buttons** to select **Last room** or **All devices** to access them directly.

4.2.1 Add devices to favourites

To access important devices directly and quickly, you can define specific devices as favourites. These devices are then displayed in the **Favourites list** in the TechniSat CONNECT app and in the **Smart Home** menu of the SMARTHOME receiver, tv or central unit.

> Use the **arrow buttons** to navigate to **All devices** and select by pressing the **OK button**.

> Then use the **arrow buttons** to highlight the devices you would like to add to **Favourites**.



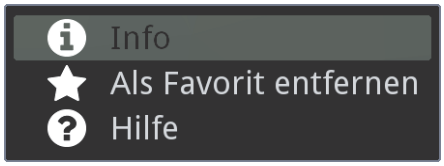
> Press the **OPT button** on the remote control..

> Then select **Add to favourites** and press the **OK button** to confirm your choice.

4.2.2 Remove devices from favourites

Of course, you can also remove devices from your favourites.
You can remove them from the **All devices** overview or from the **Favourites**.

> Use the **arrow buttons** to navigate to the device that you want to remove from your favourites.



> Press the **OPT button** on the remote control.

> Then select **Set as favourite** and press the **OK button** to confirm your choice.

4.2.3 Create and delete rooms

Use the TechniSat CONNECT app to create and manage rooms. You can find further information in the user manual for the app.

4.3 Use devices

The **Smart Home** network consists of a range of devices with different functions. Some devices can be switched on and off and other supply values or a video stream.

4.3.1 Switch periphal devices on and off

Switchable peripheral devices have a switch symbol next to the device name.

> Use the **arrow buttons** to highlight the peripheral device you want to switch on or off.

> Press the **OK button** to switch the device on or off.

The current switch status is displayed by the switch icon:

The device is **switched on**.

The device is **switched off**.

4.3.2 Use periphal video devices

Peripheral video devices have a camera icon before the device name.

For example, if you define a camera as a favourite, the video stream from the camera is displayed at the bottom left in a small preview window on the menu start page.

You can also view each camera in **full-screen** mode.

> Use the **arrow buttons** to highlight the camera you want to use.

> Press the **OK button** to switch to full-screen mode.

Some cameras allow you to change the position or orientation of the lens.

> In **full-screen mode**, use the **arrow buttons** on the remote control to change the orientation.

> Press the **Back button** on the remote control to exit full-screen mode.

4.3.3 Query sensors

You have devices with various sensor features e.g. to automate certain processes.

MS1 - Multisensor > The multisensor provides temperature, brightness and humidity. It also has an integrated motion sensor.

TK1 - Door contact > The door contact can be used to detect whether doors and windows are open or closed.

RM1 - Smoke detector > The smoke detector detects smoke, then alerts the central unit.

All devices provide the information on a details page. To view the details page, proceed as follows:

> Use the **arrow buttons** to highlight the applicable device.

> Press the **INFO button**.

or

> Press the **OPT button** and then select **INFO**.

Most sensors also indicate the current battery level, so that you can replace empty batteries in good time.

When using sensor devices, it is possible to program scenarios to automate certain sequences. Use the **TechniSat CONNECT** app for programming.

5 Install and run the TechniSat CONNECT App

5.1 Installation

You can install the TechniSat CONNECT app from the well known stores on your Android or iOS device.

APP ERHÄLTLICH BEI Google Play

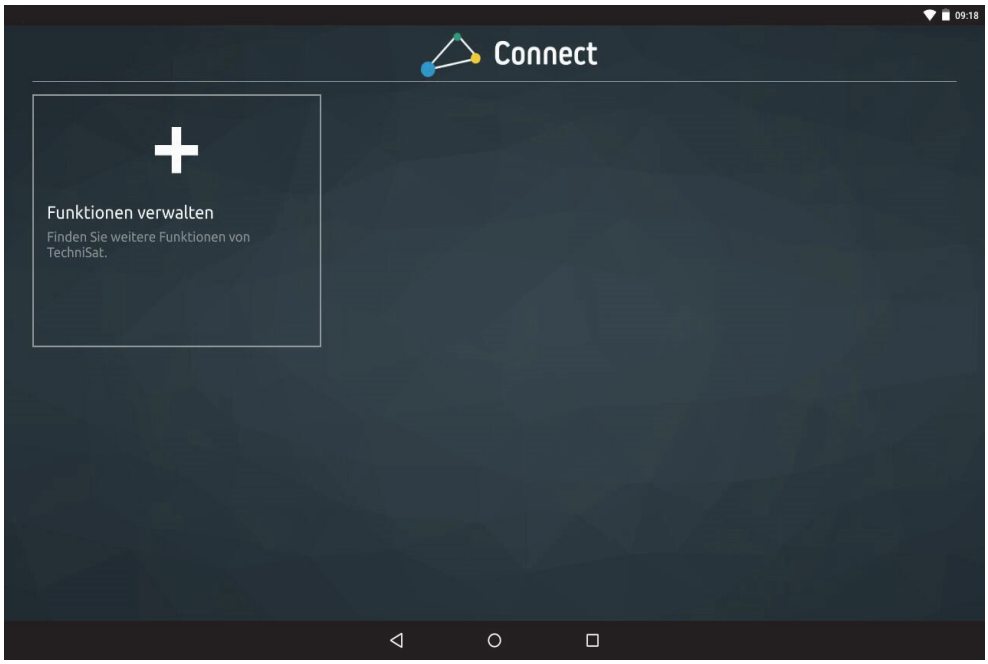
Laden im App Store

5.2 Start the app

After you have installed the TechniSat CONNECT app from the app store,

> Tap the app icon to open the app.

After it has opened, a start screen is displayed, which you can configure with your favourite functions.

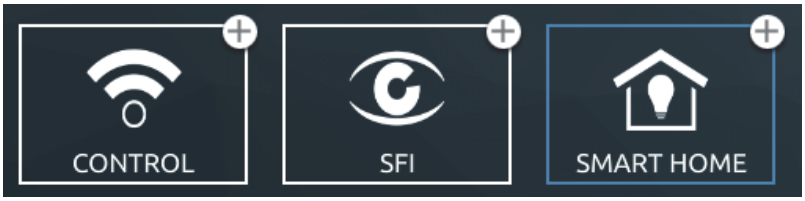


5.3 Configure start screen

To add specific functions to your start screen,

> tap **Features**.

> Then tap to select the function(s) from the list displayed below.



5.4 Remove functions from start screen

> To remove specific functions from the start screen again, press any function icon for about 2 seconds.

The icons shake to indicate that functions can now be removed from the start screen.

> Tap the **x** at the top right of the function icon to remove the function.

6 Control

TODO

7 SFI

TODO

8 Smart Home

There are a few requirements that must be met before you can use the **Smart Home**.

- You need a suitable **central unit** that the app can connect to and where you can add your peripheral devices. This central unit is available in some **TechniSat** digital receivers., tvs or central units.
- The **Smart Home** function must be enabled in the menu of the receiver that you are using as the central unit. (Main menu > Settings > Advanced > Smart Home).
- Your smartphone or tablet must be on the same network as the **TechniSat** receiver that you are using as **central unit**.
- Cameras (**IK1**, **AK1**) must also be connected to the same network so you can configure and use them.

Please see the device user manuals for instructions on connecting and configuring your devices.

9 Start Smart Home

To use the **Smart Home** function of the TechniSat CONNECT app, add the function to the start screen, as described under 5.3.

> Start the function by tapping the **Smart Home** icon.

You must then connect to the central unit.
To do so, proceed as follows:

> Select your preferred **central unit** from the list of available central unit.

> Then use the on-screen keyboard to enter the **Username** and **Password** for the central unit.

> Select **Connect automatically** to save your user data on your smartphone or tablet.

9.1 Smart Home peripheral devices

You must add peripheral devices to the central unit before you can control them.
The specific steps are described in the app.
When they are delivered, **Smart Home** devices are not connected to a central unit and are in inclusion mode.

Please see the device user manual for how to switch your device to inclusion mode.

9.2 Add Smart Home peripheral devices

> Make sure that Smart Home is enabled and configured on your central unit.

You can check your settings under **Main menu** > **Settings** > **Advanced** > **Smart Home**. See the user manual for your TechniSat receiver for more information. This setting must stay permanently enabled.

> Tap .in the app.

> Then select **Add new device**.

Please follow the instructions within the app.

You will see a list of available devices:

Some devices are pre-configured. If you cannot see your device, please select **Generic (generic device)**.

> Tap the device you would like to add.

Instructions for adding the device you have selected will then be displayed.

> Tap **NEXT**.

> The tap .

A second counter will then start to count.
The **learn button** on the device must be pressed **within 60 seconds** to add the device.

Please consult the user manual for your peripheral devices, e.g. to find the learn button and for instructions on using the learn button.

During inclusion of another central unit this device sends network protocol data to that central unit. For that purpose, start inclusion on this device and start learn mode on the other central unit.

If inclusion succeeds, the second counter changes.

Some information is exchanged first between the central unit and the added device.

The following message is then displayed: **New device has been successfully added and configured**.

If inclusion failed, repeat the steps.

The added device can now be used for its intended purpose.

9.3 Remove Smart Home peripheral devices

If you do not want to use a device any more, it must be removed from the central unit

To remove, proceed as follows:

> Start the TechniSat CONNECT app on your smartphone or tablet.

> Select e.g. the overview page **All devices/scenes**.

> Tap the icon for the device to be deleted and select **Remove device**.

Please follow the instructions in the app for removing.

> Tap .

A second counter will then start to count.
To remove a device the **learn button** must be pressed **within 60 seconds**.

Please consult the user manual for your peripheral devices, e.g. to find the learn button and for instructions on using the learn button.

If removing succeeds, the following message is displayed in the app:
The device has been removed successfully.

If exclusion failed, repeat the steps

9.4 Rename devices

If you have a number of peripheral devices, it can be useful to give them meaningful names so you can identify them easily.

> Tap the icon for the device you want to rename and select **Rename**.

> Use the displayed virtual keyboard to change the current name.

> Confirm by tapping **RENAME**.

If the name you have entered is already in use for another device, the app displays a message.

9.5 Customize view

The view that represents your peripheral devices in the app can be customized to your preferences. Choose between **list** and **grid** view.

> Tap the icon in the top line next to the connected **central unit**.

> Then select **Grid** or **List**.

9.6 Manage rooms

> Switch to the **Overview**.

> Tap .in the app.

> Then select **Add new room**.

> Start by entering a **name** for the new room, using the on-screen keyboard.

> Select a suitable **icon** by tapping.

> Tap **CREATE** to save your settings.

9.6.1 Rename rooms

Proceed as follows to rename a room you have created:

> Switch to the **Overview**.

> Tap for the **room name**..

> Select the option **Rename**.

> Use the on-screen keyboard to enter a new **name**.

> Then tap **RENAME**.

9.6.2 Add devices to a room

> Switch to the **All devices/scenes** view.

> Tap ⋮ for the device that you would like to link to a room.

> Select the option **Add to room**.

> You can now select the **Room** by tapping it.

> Confirm your choice by tapping **OK**.

To add other devices to a room, repeat the above steps.

9.7 Add devices to favourites

To access important devices directly and quickly, you can define specific devices as favourites. These devices are then displayed in the **Favourites list** in the TechniSat CONNECT app and in the **Smart Home** menu of the SMARTHOME receiver, tv or central unit.

> Switch to the **All devices/scenes** view.

> Tap ⋮ for the device that you would like to add to your favourites.

> Then select **Set as favourite**.

The selected device is now displayed on the home screen under **Favourites**.

9.7.1 Remove devices from favourites

Of course, you can also remove devices from your favourites.
You can remove them from the **All devices** overview or from the **Favourites**.

> Tap ⋮ for the device that you would like to remove from your favourites.

> Then select **Unset as favourites**.

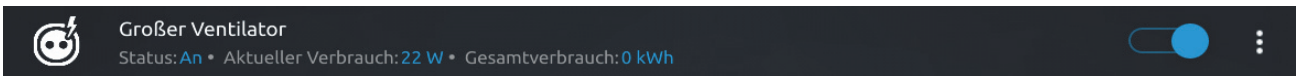
The selected device is no longer displayed under favourites, but is still available under **All devices/scenes** and **Rooms**.

9.8 Use peripheral devices

The various peripheral devices are divided into 3 groups. There are **Actuators**, **Cameras** and **Sensors**.
The following provides a short description of how to use these different groups of devices. For further information, please see the user manuals for your devices.

9.8.1 Switch and configure actuators

Switchable peripheral devices have a switch symbol next to the device name.



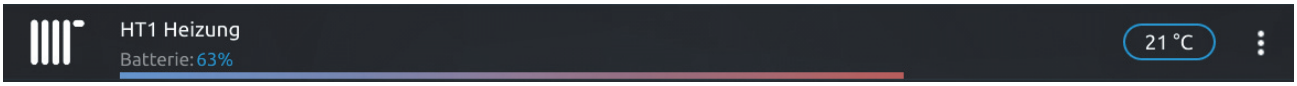
> To switch, simply **tap** the applicable **line** or the applicable **grid field**.

The current switch status is displayed by the applicable switch icon.

The device is **switched on**.

The device is **switched off**.

Some actuators, such as the **HT1 Radiator Thermostat**, can be adjusted with a slide bar.

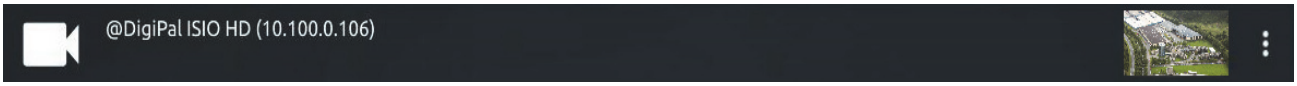


> For example, to change the temperature, tap the line and move your finger to the right or left.

The indicator 21 °C will display the selected temperature.

9.8.2 Use peripheral video devices

Peripheral video devices have a camera icon before the device name.



For example, if you define a camera as a **favourite**, the video stream from the camera is displayed at the bottom left in a small preview window on the start page of the **Smart Home menu** on your **TechniSat Smart Home device**.

A small preview of the camera image is displayed on the right on the row or in the grid.

Of course, you can also view each camera in full-screen mode.

> To do so, either **tap** the applicable **row** or the **grid**

Alternatively:

> Tap the icon next to the camera and select **Details**.

The camera image will then be displayed full-screen in the app.

Some cameras allow you to change the position or orientation of the lens.

9.8.2.1 Control cameras

The camera must be in full-screen mode before you can change its position.

> **Tap** the **camera image** again, if necessary, to display the control arrows.

> Next, **tap** the displayed **control arrows** to move the camera lens up/down or right/left.

Use the app's back button to exit full-screen mode.

The camera stays in the set position.

9.8.3 Query sensors

Your **Smart Home** network can be used with devices that have various sensor features e.g. to automate certain processes or to trigger alarms.

MS1 - Multisensor > The multisensor provides temperature, brightness and humidity. It also has an integrated motion sensor.

TK1 - Door contact > The door contact can be used to detect whether doors and windows are open or closed.

RM1 - Smoke detector > The smoke detector detects smoke, then alerts the central unit.

All devices also provide information on a **details page**. To display the details page, proceed as follows:

> Tap ⋮ for the device.

> Then select **details** by tapping.

ⓘ Most sensors that are battery-operated also indicate the current battery level, so that you can replace empty batteries in good time.

9.9 Settings

9.9.1 Smart Home settings

This menu allows you to change some more advanced settings and to use special functions for the Z-Wave network.

> Tap the ⚙ icon and choose **Smart Home**.

9.9.2 Central units

All the Z-Wave central units available on your network are displayed here.
The text **Connected** indicates which central unit the TechniSat CONNECT app is currently connected to.

9.9.2.1 Connect and remove

> Tap the row for a central unit to connect to or to disconnect this device.

ⓘ You can see the IP address of the central unit on your home network in the dialog box that is displayed.

9.9.2.2 Remove database

This function deletes the internal list of all central units previously connected to the app.
This list is used, for example, to re-connect the app to a central unit automatically.

> To use this function, tap **REMOVE DATABASE.**

9.9.3 Extended Z-Wave settings

9.9.3.1 Enable expert mode

> Tap the box to enable **expert mode for added devices**.

See 9.9.4 for how to use these functions.

9.9.3.2 Network reorganisation

To extend the range of your **Smart Home** network, some peripheral devices can act as repeaters. The central unit then saves specific routes for accessing each peripheral devices, so that communication is as fast as possible. When this function is used, the existing network is scanned again and the communication routes to the peripheral devices are saved again.

This function is useful if e.g. the location of a peripheral device changes and/or a specific device can no longer be reached and therefore cannot be controlled or queried.

Please note that this function can last a long time, depending on the size of you Smart Home network.

> Tap **ACTIVATE** under **Network reorganisation** to start this function.

A status indicator displays the current progress.

9.9.3.3 Central unit learn mode

This is used to add the connected central unit to another central unit.

You can only add a central unit to another central unit if no peripheral devices have been added yet.

> Start the process on the 1st central unit to add a new device.

> Tap **ACTIVATE** under **Central unit learn mode** on the 2nd central unit.

This button now has the same function as the learn button on peripheral devices.

During inclusion on another central unit, this device receives network protocol data from the other central unit.

This central unit can also be removed in the same way.

> Start the process on the 1st central unit to add a new device.

> Tap **ACTIVATE** under **Central unit learn mode** on the 2nd central unit.

The remove procedure is then performed.

9.9.3.4 Send NIF

You can use this function to send a Node Information Frame.

9.9.3.5 Reset central unit

Use this option to reset the **Smart Home** part of the central unit. If you are using a SMARTHOME receiver, tv or central unit, for example, your other settings are not changed. All added **Smart Home** peripheral devices are removed and the central unit is given a new HomeID.

If this controller is the primary controller for your network, resetting it will result in the nodes in your network being orphaned and it will be necessary after the reset to exclude and re-include all of the nodes in the network. If this controller is being used as a secondary controller in the network, use this procedure to reset this controller only in the event that the network primary controller is missing or otherwise inoperable.

9.9.4 Expert mode for added devices

This menu gives you access to advanced information and allows you to set specific values. To access this menu, you must enable expert settings, as described under 9.9.3.1.

9.9.4.1 Remove failed device

If a peripheral device is faulty, you can remove the faulty device from the central unit with this function.

> Tap the ⋮ icon next to the applicable device.

> Select **Remove failed device**.

The faulty device is removed and is no longer shown in the central unit.

9.9.4.2 Replace failed device

If a peripheral device is faulty, you can replace the faulty device with a new, identical device with this function.

> Tap the ⋮ icon next to the applicable device.

> Select **Replace failed device**.

The faulty device is then replaced by the new device.

9.10 Expert device configuration

To use these functions, you must enable expert settings, as described under 9.9.3.1.

> Tap ⋮ for the device.

> Select **Configure**.

ℹ Change entries, if you are certain about what you are doing. You can find the relevant information in the applicable user manual for the peripheral device.

9.10.1 Device configuration

> Use the on-screen keyboard to enter values.

> Tap **SET VALUE** to apply the values you have entered.

> Use **REQUEST VALUE** to retrieve the values.

9.10.2 Wakeup interval

> Use the on-screen keyboard to enter a value.

> Tap **SET INTERVAL** to apply the value you have entered.

> Use **REQUEST INTERVAL** to retrieve the interval.

9.10.3 Association

This device supports the Association commend class. It supports one association group:

- Group identifier: 1
- Maximum number of devices: 1
- Used for: Device Reset Locally notification

ℹ This notification is sent if controller is reset. (See 9.9.3.5)

> Tap the **REQUEST GROUPS** button under Association.

> Then select a **Group** and add a **device** from the displayed list.

> Repeat these steps to other devices.

> Tap **APPLY** to save.

9.10.4 Multi-Channel association

This is as described under 9.10.3.

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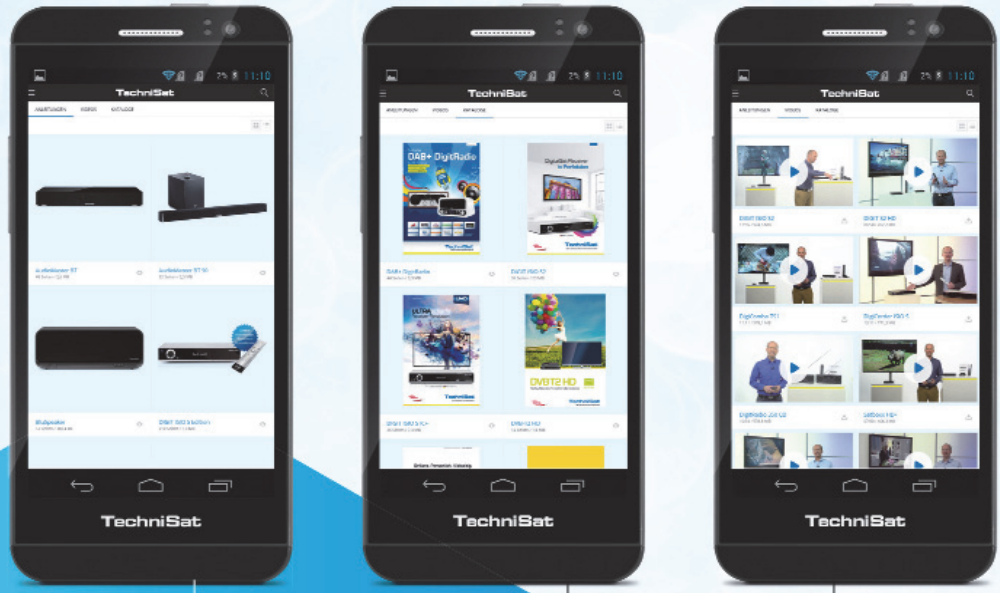

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