



PANASONIC Operator App At Zattoo

Example of an OpApp implementation

What is an OpApp?



- Extra Device
- Extra Remote
- Extra Cables
- Extra Device UX

- + Full Remote Control utilised
- + Always On
- + HbbTV
- + TV Experience melted with device

- Find App
- Download App
- Open App every time*
- Subset of RCU Buttons

- + No extra cables

- + App on TV source input
- + More of Remote Control utilised
- + Always On
- + HbbTV*
- + No extra cables
- + TV Experience melted with device

**User perspective
app installation
during TV setup**

[Video showing setup of OpApp]



**Implementation at Zattoo
based on existing OTT app**

Checklist - Preparation

- ❑ DVB Services Org ID (MHP) - for identifying the app

Shall match the organisation_id in the XML AIT during discovery.

Note: To register a globally unique organisation_id, operators should apply for an MHP Organisation ID at <https://dvbservices.com>. Here is a list of already allocated identifiers: https://www.dvbservices.com/identifiers/mhp_organisation_id .

UNDER THE HOOD

Checklist

- Get a TV with a special firmware
- Ask Panasonic for reference app
- Download API docs

APP START



Checklist - App Start Experience

- Create a packaged version of the app (follow reference example)
- Implement Loader UI
- Initialise TV APIs based on reference example
- Add XML AIT file
- Encrypt the package and host it
- Share URL with Panasonic

HOME FEED



Checklist - Home Feed

- Create a static or dynamic JSON feed
- Host it
- Share the URL with Panasonic team
- Add event handlers in the app code

MORE BUTTONS



Checklist - Additional Hardkeys on the Remote Control

- Request additional key via provided by Panasonic API
- Add event listeners to the app

SETTINGS



Checklist - Settings

- Add event listener in the app code
- Make Settings UI available for both authenticated and anonymous users

OFFLINE



Checklist - Offline Mode

- Implement check for network connectivity
- Add UI to display offline status

UNINSTALL

ZATTOO



Checklist - Uninstall

- Extend app settings with Uninstall option
- Implement method to cleanup user data and delete the app via API
- Add event listener

23:26

DFHD

Die Unfassbaren - Now You See
22:15 - 23:55

HBBTV

Checklist - HbbTV

- Add event listener for Red button
- Map channel ID to HbbTV app URL
- Add method to create/close HbbTV apps based on provided API

Zattoo OpApp - Facts

- On 2020 Models and up
- OpApp only available in those devices, no choice between OpApp and OTT
- No user complaints or requests since launch in September



Thanks.

