



webinosTV – MEDIA, MASHUP, MULTISCREEN

Contact

Martin Lasak
Competence Center FAME
Phone +49 30 3463-7294
martin.lasak@fokus.fraunhofer.de

Fraunhofer FOKUS
Kaiserin-Augusta-Allee 31
10589 Berlin
Germany

www.fokus.fraunhofer.de/go/webinostv
www.webinos.org



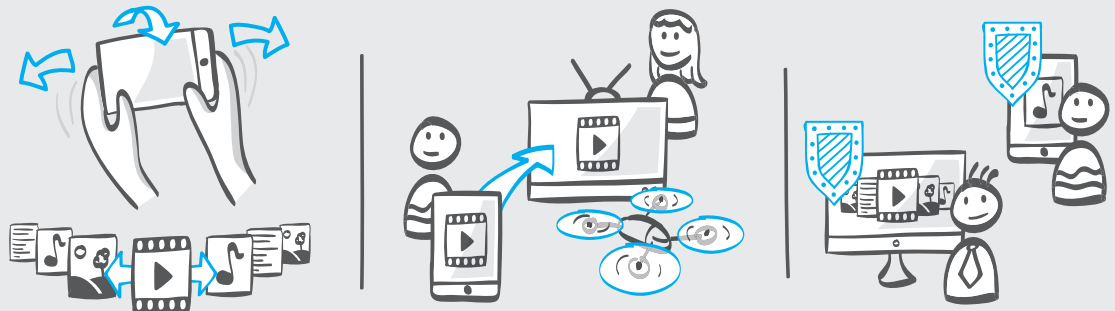
Mastering the screens that surround us

Devices surround us. Screens, tablets, audio players and a large amount of other connected gadgets can present media. At the same time, content is available via network storage devices, cloud services, cameras, MP3 players and other devices and gadgets. While creating new possibilities, this also requires a high amount of knowledge to get simple tasks done. Playing audio files from your smartphone on the audio system in the living room is no longer as trivial as just connecting the two with a cable.

Integrated, easy to use systems for directing content from one device to another exist, but they require all components to come from the same system, which usually means the same manufacturer. This is where webinosTV comes into play using the open technology: webinos provides an unified cross-device, cross-domain and cross-platform solution, which offers simple device discovery, secure synchronization and preservation of user privacy at the same time:

- webinosTV uses webinos to allow communication between all connected personal devices independent of platform and operating system.
- webinosTV utilizes the concept of personal zones to enable secure and convenient usage of services.
- webinosTV links source and target devices intuitively.
- webinosTV provides access to consolidated and shared content for consumption.

Using webinosTV, users become mashup directors, mastering available distributed digital content with ease and fun.



What is so special about webinosTV?

webinosTV is built with webinos technology and marks the first truly multiscreen cross-device media player based on open technologies and standards.

Multiscreen applications are entering the market with force. The drivers of this trend are TV sets. Almost every modern connected TV or set-top box can be controlled with a smartphone app provided by the manufacturer. These apps range from simple remote control replacements to fully equipped media centers including PVR programming, interactive EPGs and video streaming from the TV to the smartphone. And these are just the first steps. Advanced multiscreen applications can provide supplementary information on the TV program, present details on the characters in a soap opera or bonus and background information on repeat showings, inviting the viewer to watch the show again. Several viewers can also access different supplementary information, even if they are all watching the same TV together. And the second or third screen might be a TV screen as well – watch a video-on-demand program in the living room, continue watching on a smartphone in the bathroom and watch the ending on the TV in the bedroom.

Technology and features

- Built using open technologies: W3C HTML5, W3C CSS3, JavaScript, webinos
- Utilizes streaming standards MPEG DASH, WebRTC, SAT>IP
- Synchronization and multiscreen interaction is based on open protocols and secure end-to-end channels
- Switch content seamlessly and automatically across screens
- Sharing personal media:
 - Access control on media shares stored locally or in the cloud
 - Unified access through service abstraction, e.g. integration of UPNP/DLNA resources
- Media information and EPG on second screen
- Intuitive navigation, remote control and remote input
- Apps and games integration:
 - Launch apps on your phone, display them on the big screen.
 - Play casual games, monitor and control the home environment (Internet of Things)
- Cross device payment ready: access premium content on TV while paying with soft wallet on the phone
- Runs on any webinos enabled device including Windows, Linux, OSX, Android and Raspberry Pi

At a glance

webinosTV is a software solution targeted to enable the seamless interaction with personal content distributed across disparate devices and remote storage units. It provides unified and easy control over various content flows with a focus on improving end user consumption experience. webinosTV works on different platform and operating systems and is built with Open Web technologies.

Get in touch with us

The webinos project is an open source project with open governance. The webinos platform is freely available, with source code and technical specifications and ports to different platforms. Fraunhofer FOKUS, the project's coordinator, provides expertise, support, tutorials and implements and realizes multi-screen solutions.