

DAY 1 – WEDNESDAY MAY 20, 2015

10:00–12:30	Tutorial 1 Auditorium II HbbTV – deep dive and hands-on	Tutorial 2 Auditorium I Multiscreen – Technologies & Standards	Tutorial 3 Auditorium III Web of Things – Technologies & Standards	dash.js Room 0007 Face to Face Meeting
13:30–18:00	Workshop 1 Auditorium II Connected TV – Broadcast Broadband Convergence	Workshop 2 Auditorium I W3C Second Screen Presentation WG open session "Multiscreen – Challenges and Best Practices"	Workshop 3 Auditorium III Web of Things – Convergence of Ecosystems	dash.js Room 0007 Face to Face Meeting
18:00	Get together, Networking, Demonstrations & Exhibition			

DAY 2 – THURSDAY MAY 21, 2015

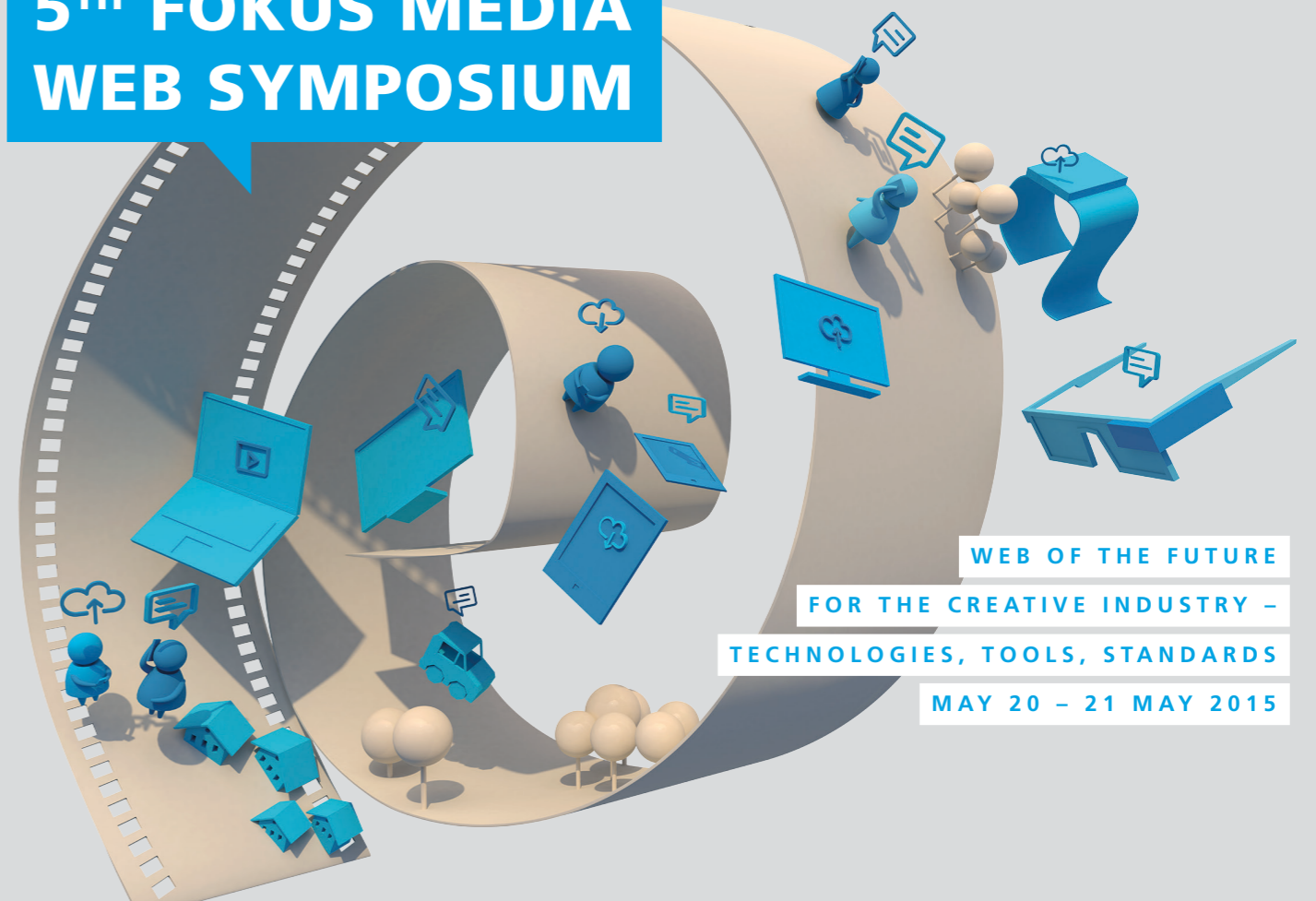
Auditorium I		
9:30–10:15	Session 1	From TV Screen to Any Screen – A Perfect Storm
10:15–11:00	Session 2	Smart TV, OTT, On-Demand, Multiscreen – Mission accomplished? – Part I
11:30–12:30	Session 3	Smart TV, OTT, On-Demand, Multiscreen – Mission accomplished? – Part II
14:00–15:30	Session 4	DASH Delivered Media – Latest MPEG Developments, Live Service Delivery, Ad Insertion and Content Protection
16:00–17:00	Session 5	Understanding Media – Big Data, Semantics, Context, Recommendation, Social
17:00	End of Conference, Networking, Demonstrations & Exhibition	

PERMANENT EXHIBITION AND DEMONSTRATIONS ON BOTH DAYS



Latest updates:
www.fokus.fraunhofer.de/go/mws

5TH FOKUS MEDIA
WEB SYMPOSIUM



WEB OF THE FUTURE
FOR THE CREATIVE INDUSTRY –
TECHNOLOGIES, TOOLS, STANDARDS
MAY 20 – 21 MAY 2015

INDEX

01	Welcome	13	Exhibition
02	Day 1 – Tutorials	18	Smart TV Lounge
03	Day 1 – Workshops	19	Fraunhofer FOKUS
06	Day 1 – Media Night – Social Event	20	Logistics
08	Day 2 – Conference	21	Floor Plan
10	Lab Tour: FOKUS Demonstrations	##	Short program overview on backside of booklet

Event Partners:



WORDS FROM THE CHAIRS



Dear FOKUS Family and Friends, Ladies and Gentlemen

We are proud to welcome you to our 5th FOKUS Media Web Symposium on May 20-21, 2015. "The web of the Future for the Creative Industry – Technologies, Tools, Standards" is the motto of the entire symposium as it is for the demonstration and exhibition slots.

Convergence is here! Convergence is not just technical. It is revolutionizing the telco, TV and media industry. New Internet & Web technologies do not only disrupt the traditional markets with new content delivery models (such as broadband vs. broadcast), but are also the driving force behind the evolution of the consumer electronics landscape, where new features such as VoD, shift TV, and personalized TV are offered to consumers on the go. A powerful mix of revolutionary and evolutionary web technologies is starting to impact us ubiquitously in any area of our life. Next stop on this path will be Smart Home ("yes, it is back ☺") and Industry 4.0 where Web Technologies will play an important role building a Web of Things converging the diverse ecosystems.

We are pleased to welcome experts from all over the world to present latest developments and updates. The event will take

place over two-days, offering tutorials, workshops and a social event on day one and a full day conference on day two. Newest products and prototypes from sponsors, partners and demonstrations by Fraunhofer FOKUS will be shown at the exhibition area and during the Lab Tours on both days. The agenda lists 55 presentations spanning the two days given by experts from all over the world on the hottest topics in broadband-broadcast convergence, multiscreen and web of things.

The event will be of great interest to international experts in web and media technologies who are seeking and exchanging the latest technical information and hands on experience of multiscreen content and applications.

We hope you will enjoy the 5th FOKUS Media Web Symposium 2015 and wish you very interesting and fruitful two days.

Sincerely yours,
Dr. Stefan Arbanowski & Dr. Stephan Steglich
and the entire FOKUS team

DAY 1 – WEDNESDAY MAY 20, 2015

8:30–10:00 **Registration, Welcome Coffee**

10:00–12:30 TUTORIALS AND DASH.JS MEETING

Tutorial 1

Auditorium II

HbbTV – deep dive and hands-on

Stefan Arbanowski,
Christopher Krauss,
Fraunhofer FOKUS

Tutorial 2

Auditorium I

Multiscreen – Technologies & Standards

Stephan Steglich,
Louay Bassbouss,
Fraunhofer FOKUS

Tutorial 3

Auditorium III

Web of Things – Technologies & Standards

Stephan Steglich,
Robert Kleinfeld,
Fraunhofer FOKUS

dash.js

Room 0007

Face to Face Meeting

12:30–13:30 **Lunch, Networking, Demonstrations & Exhibition**

13:30–18:00 WORKSHOPS AND DASH.JS MEETING

Workshop 1

Auditorium II

Connected TV – Broadcast Broadband Convergence

(see more Page 3)

Workshop 2

Auditorium I

W3C Second Screen Presentation WG open session "Multiscreen – Challenges and Best Practices"

(see more Page 4)

Workshop 3

Auditorium III

Web of Things – Convergence of Ecosystems

(see more Page 5)

dash.js

Room 0007

Face to Face Meeting

18:00 **GET TOGETHER, NETWORKING, DEMONSTRATIONS & EXHIBITION**

Media Night – Social Event @ Osteria Maria sponsored by Microsoft
(see more Page 6)

CONNECTED TV – BROADCAST BROADBAND CONVERGENCE

WORKSHOP 1

13:30–14:30 **Auditorium II** **HbbTV: current market situation and outlook on HbbTV 2.0**

Klaus Merkel – Institut für Rundfunktechnik (IRT)

HbbTV Application Toolkit and showcases

Annette Wilson – Rundfunk Berlin-Brandenburg (rbb), Project Manager

Drone Wars – Attacking Smart TVs via the broadcast RF segment, and countermeasure

Alexander Adolf – Condition-ALPHA, CTO and Technology Consultant
Benjamin Michèle – IT-Security Consultant

14:30–15:00 **Coffee Break, Demonstrations & Exhibition**

15:00–16:00 **Auditorium II** **W3C Glass to Glass Internet Ecosystem task force**

Giuseppe Pascale – Opera, PM Connected TV Content and Advertising

Benefits & Challenges of Cloud-Transcoding for Live and OnDemand Content Use Cases

Stefan Lederer – bitmovin, CEO and founder

Video transcoding for multiscreen environment

Ludovic Pertuisel – Thomson Video Networks, Senior Product Manager

16:00–16:30 **Coffee Break, Demonstrations & Exhibition**

16:30–18:00 **Auditorium II** **Interactive Video – a new way of storytelling**

Jörn Berkefeld – BitTubes, CEO

W3C TV Control API

Sean Lin – Mozilla Foundation, Software Engineer

Android as TV Operating System (past, today, tomorrow)

Nikola Teslic – RT-RK, CTO, Deputy General Manager

Usability analysis of HbbTV

Sven Pagel, Tobias Simon – University of Applied Sciences Mainz

The cold war to connected TV

Antonio Pavolini – Telecom Italia, Business Analyst in Digital Media

WORKSHOP 2

W3C SECOND SCREEN PRESENTATION WG OPEN SESSION "MULTISCREEN – CHALLENGES AND BEST PRACTICES"

- 13:30–14:30 **Auditorium I** **Presentation API – Intro and Recent Improvements**
François Daoust – Web and TV specialist at W3C
- Presentation API in Chromium**
Mark Foltz – Google, Senior Staff Software Engineer
- Presentation API/DIAL integration**
Mark Watson – Netflix, Director Streaming Standards
- Companion Screens and HbbTV 2.0**
Matt Hammond – BBC, Senior R&D Engineer

14:30–15:00 **Coffee Break, Demonstrations & Exhibition**

- 15:00–16:00 **Auditorium I** **Presentation API on Firefox OS**
Shih-Chiang Chien – Mozilla Foundation, Senior Software Engineer
- Presentation API on Smart Watches**
Soonbo Han – LG Electronics, Senior Research Engineer
- Multiscreen on Cloud Browsers**
Oliver Friedrich – Deutsche Telekom, Senior Expert New Media
- Digital Signage Provides Information of Games and Disasters**
Masayuki Ihara – NTT Japan, Senior Research Engineer
- Extending Video for Multiscreen**
Jean-Claude Dufourd – Télécom ParisTech, Research Director

16:00–16:30 **Coffee Break, Demonstrations & Exhibition**

- 16:30–18:00 **Auditorium I** **W3C Second Screen Presentation Working Group F2F Meeting**
Closing Session

Workshop 2 is an open session co-organised by the W3C Second Screen Presentation Working Group. The working group's goal is to define APIs that enable web pages to use secondary screens to display web content. This workshop will discuss use cases for multiscreen scenarios and technical details for implementation and usage by application developers.

WEB OF THINGS – CONVERGENCE OF ECOSYSTEMS

WORKSHOP 3

- 13:30–14:30 **Auditorium III** **IoT Developer and Platform Landscape**
Stijn Schuermans – VisionMobile, Senior Business Analyst
- Bridging the gap between the IoT and the Web – Web standards for JavaScript device drivers**
Dave Raggett – W3C, W3C Fellow
- Wiring the IoT with Node-RED**
Dave Conway-Jones – IBM UK Ltd, Senior Inventor
- Smart Home – Evolution of Standards**
Jens Hempel – TÜV Rheinland, Grid Automation/ Smart Grid Services

Workshop 3 focusses on approaches how to overcome the fragmentation of vertically oriented closed systems, architectures and application areas. A Web of "things" is the most promising approach to deliver open systems and platforms that support multiple applications. Workshop 3 tries to draw up a roadmap for the Web of Things addressing following three topics: (1) Web of Things technologies and protocols, (2) cross-application domains, (3) market development and current trends.

14:30–15:00 **Coffee Break, Demonstrations & Exhibition**

- 15:00–16:00 **Auditorium III** **WunderBar, the Chocolatey IoT Tool for App Development**
Jackson Bond – relayr, Co-founder and Head of Product
- How to build an interoperable and open Web of Things**
Jörg Heuer – Siemens AG, Program Manager
- Digital Workplace – IoT as enabler for Connected Enterprise Services**
Christian Mastrodonato – KONICA MINOLTA Inc., Chief Technologist
- IoT Standardisation: the approach of the European Commission**
Achilleas Kemos – European Commission, Policy and Project Officer

16:00–16:30 **Coffee Break, Demonstrations & Exhibition**

- 16:30–18:00 **Auditorium III** **IoT in the home – requirements for the mass market**
Martin Vesper – digitalSTROM AG, CEO
- The future of the application layer in the Internet of Things**
Jens Uhlig – EmtoEmGo UG, Founder and CTO
- But It's My Home! – Designing Connected Products**
Martin Spindler – Consultant and Market Analyst
- RIOT OS – The friendly Operating System**
Hauke Petersen – RIOT OS, Co-founder and CTO
- Enabling IoT devices to talk Web: The Community approach**
Charalampos Doukas – CREATE-NET, Senior Researcher

MEDIA NIGHT



Social Event @ Osteria Maria sponsored by Microsoft

We are pleased to announce the networking event sponsored by Microsoft: Be invited to our Media Night in the evening of May 20. Let's have an inspiring evening together and have fun with delicious food, drinks and conversations.

We welcome all conference guests of the 5th FOKUS Media Web Symposium to our social event. Meet us at Osteria Maria and enjoy the taste of original Italian Cuisine. The combination of traditional elements with modern interiors and a unique play of light define the ambience at Osteria Maria.

There is no dress code, and casual wear is welcome.

The shuttle service to the Media Night departs at 18:15 in front of Fraunhofer FOKUS. Afterwards the shuttle will depart from Osteria Maria with stops at "Zoologischer Garten" and "Potsdamer Platz".

Venue address: Osteria Maria, Leydenallee 79, 12167 Berlin



DAY 2 – THURSDAY MAY 21, 2015

CONFERENCE
AUDITORIUM I

8:30–9:30

Registration, Welcome Coffee

9:30–10:15

Session 1

FROM TV SCREEN TO ANY SCREEN – A PERFECT STORM

Keynote: Erno Hempel – maxdome, CTO

10:15–11:00

Session 2

**SMART TV, OTT, ON-DEMAND, MULTISCREEN
– MISSION ACCOMPLISHED? – PART I**

Quantum leap: media standards and the Web

John Simmons – Microsoft, Media Platform Architect

Akamai – looking ahead at media delivery

Will Law – Akamai, Chief Architect of Media Cloud Engineering

AndroidTV Technology overview

Niko Schröer – Google, AndroidTV

11:00–11:30

Coffee Break, Networking, Demonstrations & Exhibition

11:30–12:30

Session 3

**SMART TV, OTT, ON-DEMAND, MULTISCREEN
– MISSION ACCOMPLISHED? – PART II**

Missing features on Connected TVs

Mark Watson – Netflix, Director Streaming Standards

Firefox OS beyond smartphones

Joe Cheng – Mozilla Corporation, Product Manager

Multiscreen delivery: challenges and services evolution

Pablo Argon – Ericsson, Senior Director, Technical Strategy IPTV

Internet-TV from a consumer perspective:

Who is using it when and why?

Jörg Meyer – Zattoo, Chief Officer Content and Consumer

12:30–14:00

Lunch, Networking, Demonstrations & Exhibition

14:00–15:30

Session 4

**DASH DELIVERED MEDIA – LATEST MPEG DEVELOPMENTS, LIVE
SERVICE DELIVERY, AD INSERTION AND CONTENT PROTECTION**

**Keynote on the latest advances to the MPEG DASH standard and
DASH-AVC/264 guidelines**

Iraj Sodagar – DASH-IF President and Chairman of Board

Live Delivery Services and Ad-Insertion

Thomas Stockhammer – Qualcomm, Director Technical Standards

Security and Content protection

Kilroy Hughes – Microsoft, PM Digital Media Standards and Strategy

15:30–16:00

Coffee Break, Networking, Demonstrations & Exhibition

16:00–17:00

Session 5

**UNDERSTANDING MEDIA – BIG DATA, SEMANTICS, CONTEXT,
RECOMMENDATION, SOCIAL**

**Turning data into a great consumer experience – what really counts
for media brands**

Dirk Brinkmann – arvato Systems S4M, Head of Marketing Solutions

Big Love – How PARSHIP analyzes data to match and protect its users

Marc Schachtel – Parship, Managing Director

**The future of video for brands: immersive experiences with 360° video
streaming and virtual reality**

Damir Tomicic – Axinom Group, CEO

**Analysis paralysis? How to leverage (Big) Data to make better deci-
sions faster**

Dirk Bartels – Idealo Internet GmbH, Chief Product Officer

17:00

End of Conference, Networking, Demonstrations & Exhibition

LAB TOUR: FOKUS DEMONSTRATIONS



"Web of the Future for the Creative Industry – Technologies, Tools, Standards" is the motto of the demonstration slots as it is for the entire symposium. During all coffee breaks you will have the opportunity to experience the latest R&D results of the FOKUS competence centre Future Applications and Media (FAME). We offer 30 minutes' tours to our Future Applications and Media Lab where we will demonstrate our solutions. These cover the following topics:

Day 1, May 20 Day 2, May 21

12:30 – 13:30	11:00 – 11:30
14:30 – 15:00	12:30 – 14:00
16:00 – 16:30	15:30 – 16:00



For more information about our demonstrations please visit:
www.fokus.fraunhofer.de/go/mwsdemonstrations

Demonstration 1
Multiscreen Application Framework (MAF):
Development of multiscreen applications made easy
(see more Page 11)

Demonstration 2
FAMIUM DASH and DRM – Solutions for the delivery of HTML5 based protected video
(see more Page 12)

Demonstration 3
glue.things: Connect and build – two steps to create IoT applications
(see more Page 12)



Find the exhibits of our event partners at:
www.fokus.fraunhofer.de/go/mwsxhibition

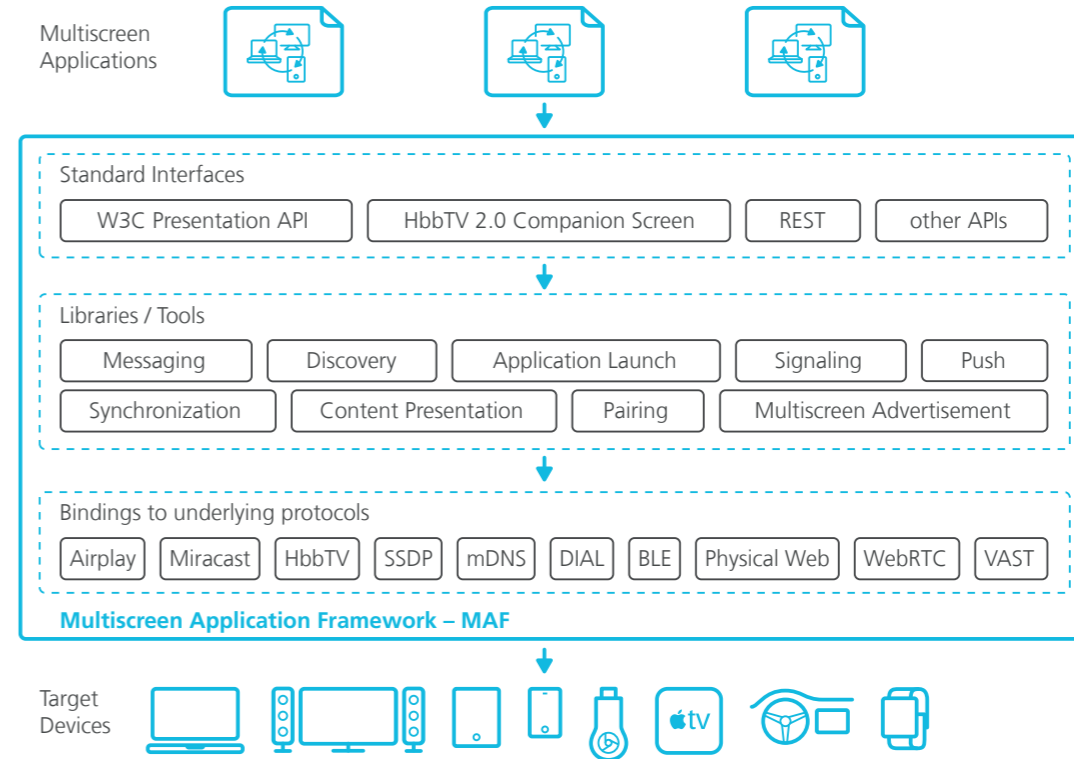
Demonstration 1

Multiscreen Application Framework (MAF): Development of multiscreen applications made easy

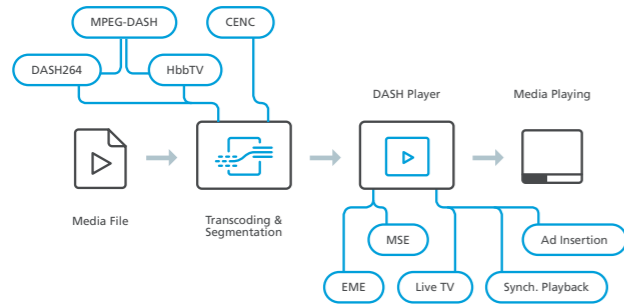
The Multiscreen Application Framework (MAF) is a proof-of-concept implementation of upcoming standards and technologies related to key multiscreen features such as Messaging, Discovery, Application Launch, Content Presentation, Signaling, Synchronization, Push and Pairing of devices. The core of MAF is based on web technologies and enables access to underlying components using standard interfaces like W3C

Presentation API and HbbTV 2.0 CS API. Each MAF component provides implementations for state of the art protocols like SSDP, mDNS, Physical Web, Airplay, Miracast, DIAL and UPnP.

Our solution supports displaying web content like HTML pages and videos on different types of presentation devices like HbbTV 2.0 Terminals, Chromecast and Apple TV and allow to control the playback using smart watches without the need to develop different applications for each of the addressed platforms.



LAB TOUR: FOKUS DEMONSTRATIONS

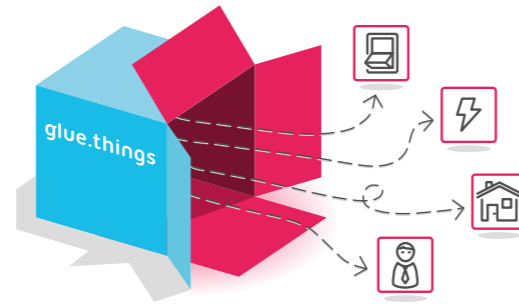


Demonstration 2

FAMIUM DASH and DRM – Solutions for the delivery of HTML5 based protected video

The FAMIUM DASH and DRM solution contains a comprehensive set of standard as well as cutting-edge features on content creation side. It is meant for early technology evaluation and interoperability testing. MPEG-DASH content can be created via a simple Web-interface, which allows different profiles of MPEG-DASH to be created (e.g. HbbTV 1.5, HbbTV 2.0/DVB-DASH, DASH264, DASH-HEVC) in order to support different platforms. Ad-Insertion is enabled by inserting DASH-specific signals (xLink, Event-Streams) into the streams. Incoming SCTE 35 cue messages can be analyzed and converted to DASH signals.

Our solution is also compatible with CENC for multi-DRM support and is integrated with a PlayReady license server. All these features are supported on the client side using a HTML5 DASH player (dash.js).

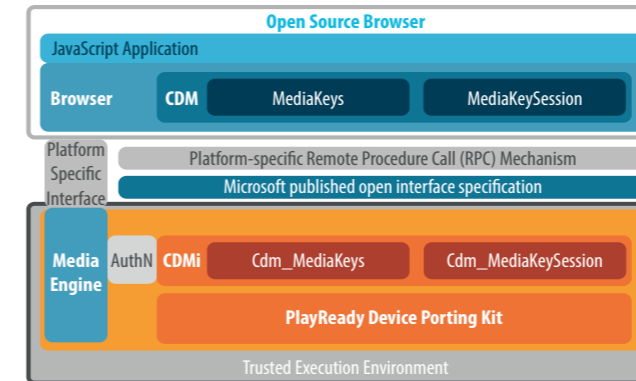


Demonstration 3

glue.things: Connect and build – two steps to create IoT applications

The capability to monitor and control more and more appliances via the Internet in the course of advancements regarding Internet of Things (IoT) will bring new challenges to consumers and companies due to an increasing complexity. In a home where every switch can be accessed via a central control unit and switched electronically, the user could benefit from a high degree of automation. One approach is to define conditional statements (or rules). For example "every time I switch on the light next to the entrance the light in the hallway and bathroom should be activated automatically".

We present glue.things as solution to create IoT applications for TVs, wearable computing devices, APIs, services and all of the consumer and business tools.



Open Content Decryption Module

PlayReady-compliant CDM for HTML5 content protection

The Open Content Decryption Module (OCDM) is a Content Decryption Module (CDM) compliant to W3C Encrypted Media Extensions (EME) specification to be used with HTML5 based browser environments. OCDM source code is available on GitHub. The OCDM has been developed by Fraunhofer FOKUS with the aim to be suitable and interoperable for as many systems and providers as possible.

It is intended for OEMs, DRM providers, system integrators and browser vendors looking to enable playback of premium video content via EME. The CDMi itself contains most CDM logic and is a c++ wrapper for the embedded platform DRM. This implementation offers interoperable HTML5 based protected video delivery, DRM interoperability based on Common Encryption (CENC) and MPEG-DASH support.



EXHIBITION



DASH content protection with PlayReady VoD and Live TV premium content to Windows 10, Android and iOS devices, using MPEG-DASH

Driving DASH industry adoption for VoD and Live TV premium content protection: Starting from Common Encryption applied to MPEG-DASH we are able to playback streamed content in the browser without plugins via W3C HTML5 Media Source Extensions (MSE) and Encrypted Media Extensions (EME). This demo showcases playback of Microsoft PlayReady DRM protected media content on various platforms, including Chromium browser and Opera SDK on Linux with an integrated PlayReady CDM, which is based on the Open Content Decryption Module (OCDM). Furthermore, Microsoft's Edge browser (on Windows 10) adds playback support for HEVC encoded MPEG-DASH streams, which enables efficient 4k/ UHD streaming.



Thomson Video Networks Multiscreen video systems

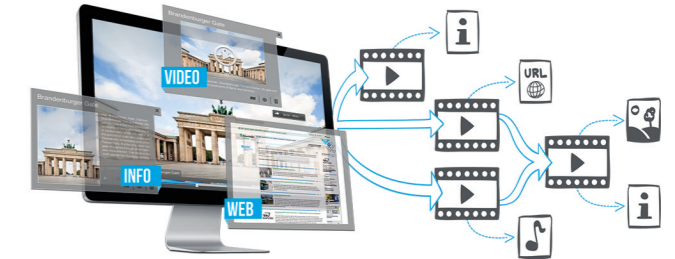
Thomson Video Networks has a long history of delivering superior video quality at the headend for very demanding applications such as satellite broadcasting where bandwidth is scarce, and the ViBE VS7000 multiscreen video system is another example of Thomson's outstanding compression performance. Picture quality becomes crucial for the end user as the average display size used to watch Over-The-Top (OTT) content continues to grow.

Delivering high-quality video certainly helps to reduce churn and increase customer loyalty, but compression performance is also about increasing the HDTV eligibility footprint on ADSL networks, whether IPTV is delivered through a managed multicast network or through adaptive bit rate encoding (ABR).



bitmovin Cloud-based transcoding and streaming as-a-service

bitmovin is specialized in adaptive streaming solutions based on MPEG-DASH and Apple HLS, which can be used to offer live as well as on demand content in highest quality (HD, UHD/4K) without stalls and startup delays. Therefore, bitmovin offers its cloud-based transcoding and streaming platform bitcodin to generate the content for adaptive streaming via the Internet as well as its bitdash MPEG-DASH players to consume this content in the best quality (up to 100% higher media throughput as other solutions). Using bitmovin's products it's possible to have one technology and solution for multiple platforms (Web, TV, Smartphone, etc.) and to use cost-effective HTTP delivery infrastructure, which both helps to reduce costs.



BitTubes Interactive Video – A new way of storytelling

BitTubes GmbH is a spin-off of the Fraunhofer Institute FOKUS. Our technology allows the viewer to interact with objects within a video and access any kind of supplemental information, such as websites, documents or other multimedia content. We will showcase how interactive video is created and distributed through cloud based media services to any type of device ranging from PCs, Smartphones, Tablets to Smart TVs.

The HTML5 based solution offers players and tools for both, media companies as well as individual users to create, manage and share interactive content through object-based media annotations, comments and supplemental information across Social networks and custom made media campaigns.



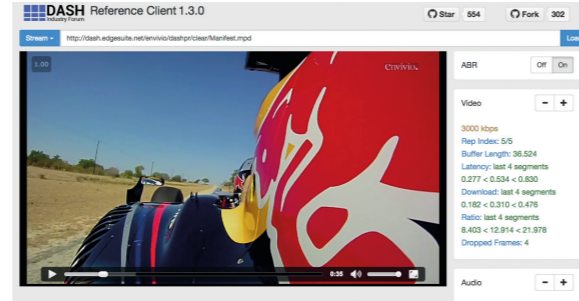
EXHIBITION



suitest candy for your app QA

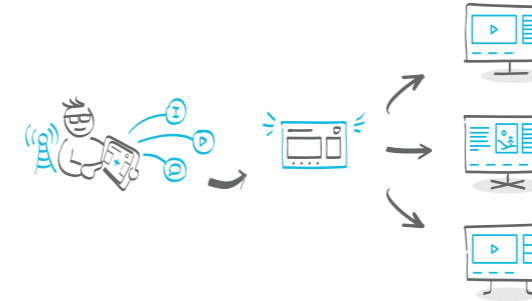
We are proud to introduce **suitest**, an ambitious and exciting digital testing suite. **Suitest** enables QA specialists to quickly and easily test connected TV apps across a wide range of connected devices from anywhere in the world.

Faulty QA can destroy months of development. Before **suitest**, testing across multiple platforms and devices took hundreds of hours. **Suitest** allows a user to define test cases based on a ready app, using the web interface. **Suitest** records your interactions with the app and the app's states at each step, and can then perform parallel tests on hundreds of devices in a matter of minutes. **Suitest** does not use simulated testing. All tests are conducted on authentic devices.



dash.js Open Source MPEG-DASH Player Framework

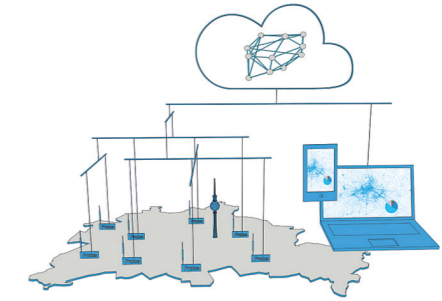
The **dash.js** project is an open source project to build a powerful, robust and spec-compliant MPEG-DASH player framework. The framework utilizes the MSE and EME extensions within modern browsers to provide adaptive segmented playback with full control over buffering, switching and scheduling logic. **dash.js** also serves as the DASH Industry Forum's reference player, so it draws upon the latest in implementation guidelines and has broad support for DASH-AVC/264, DVB-DASH and HbbTV manifests. **dash.js** has a robust EME implementation providing support for CENC DRM implementations across different browser environments. The BSD-3 license allows commercial use at no charge and code contributions, road-map prioritization and feedback are open to the community.



HbbTV Application Toolkit Creating HbbTV apps made easy

The HbbTV Application Toolkit – HAT – presents a Content Management System (CMS) for creation of HbbTV applications, which allows content creators without specific technical skills to build interactive TV applications. It is developed by Fraunhofer FOKUS' Competence Center Future Applications and Media (FAME) with partners from the EU-funded project FIconent. The HbbTV Application Toolkit is open source and will be available on GitHub soon.

HAT provides an editor/ CMS with a set of GUI templates that can be filled with text, images, audio and video content via a responsive user interface for desktop and mobile devices alike. The content palette can be extended by customized modules, e.g. for display of social-media feeds.



Broadcast Probing System Cloud-based Monitoring of DVB-T/T2 networks

Digital service broadcast suffers from misconfigurations at the source and dynamically changing signal propagation conditions. The lack of feedback leads to undisclosed service degradation and decreased experience. Our Broadcast Probing System offers cloud-based continuous near real-time monitoring of broadcast networks by utilizing massively distributed low-cost probes. Controlled either individually or in groups the probes are securely instructed to execute scheduled jobs like scanning, tuning and transport stream inspection. The collected spatiotemporal data links RF characteristics and stream quality, multiplexed tables (e.g. AIT/HbbTV, EIT/EPG) and AV dumps to allow for live analysis, evaluation and integration into monitoring environments.



SMART TV LOUNGE



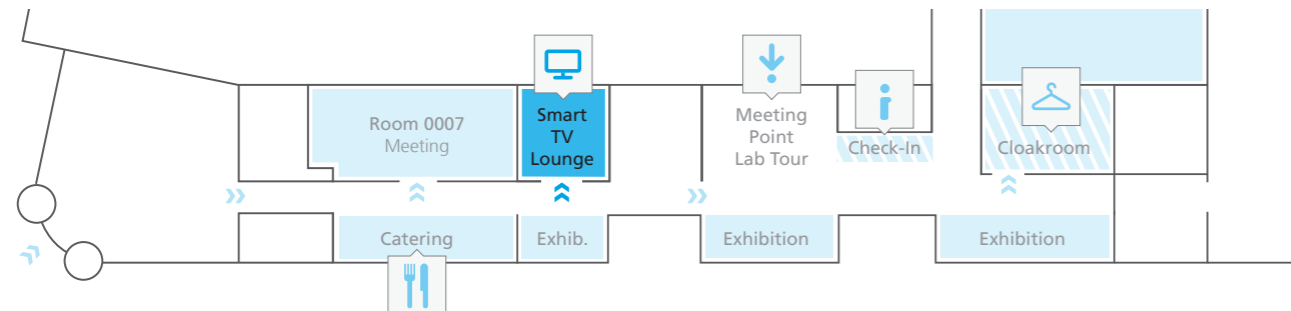
Explore our Smart TV Lounge at the exhibition area

Go for a test drive and explore the newest **Smart TV Applications, Electronic Program Guides (EPGs), HbbTV offerings** and many more.

Get the latest insights in the newest developments and technical capabilities.

Enjoy an interactive hands on experience with the newest Smart TVs with interactive apps and applications.

Our Smart TV Lounge provides a platform for technical experiences and discussions with our experts. Come in and explore it at our exhibition area.



ABOUT OUR INSTITUTE



Fraunhofer Institute for Open Communication Systems FOKUS

Fraunhofer FOKUS, based in Berlin, Germany, develops solutions for the communication infrastructure of the future. The research institute explores how communication networks will contribute to a more secure and convenient living. Thus, the institute addresses important challenges in the society and the smart cities of the future, including access to information, economic and sustainable use of resources, smart mobility and a modern governmental administration. In its projects, Fraunhofer FOKUS establishes useful ties between industry, governmental administration, users and the people.

Besides technical infrastructures, Fraunhofer FOKUS creates manifold practical concepts, applications and prototypes. In particular, Fraunhofer FOKUS is specialized in developing multi-domain networks and interoperable, user-centric solutions.

For companies and governmental administration, FOKUS is a competent companion in realizing IT projects. Independent from specific manufacturers, products and technologies, the institute provides a neutral platform.

With more than 25 years of experience, FOKUS is one of the most important actors in the ICT research landscape both nationally and worldwide. As a member of important standardization bodies, the institute contributes to the definition of new standards in information and communication technologies.

FOKUS was founded in 1988 as an institute of the Society for Mathematics and Information Technology (GMD). In 2001, GMD and the Fraunhofer Association merged and FOKUS became the Fraunhofer Institute for Open Communication Systems. In 2012, the three Berlin information and communication Institutes FOKUS, FIRST and ISST-Berlin merged under the name Fraunhofer FOKUS.

More information: www.fokus.fraunhofer.de

LOGISTICS



Reception Desk

Please contact the reception desk in case you need information or assistance.

Reception desk hours are:

Wednesday, May 20: 8:30 – 18:00

Thursday, May 21: 8:30 – 17:00

Phone: +49 (0) 171 1833577



Internet Access

WLAN Internet access is provided in the auditorium and exhibition area.

Network name: FOKUS-guests

Username: mws2015

Password: mwsatfokus



Presentation Slides

Presentation slides can be downloaded after the symposium on:

www.fokus.fraunhofer.de/go/mws



Event Minutes and Pictures

Event minutes and pictures can be found after the event on:

www.fokus.fraunhofer.de/go/mws



Social Event "Media Night"

Wednesday, May 20:

The shuttle service to the Media Night departs at 18:15 in front of the Institute.

Venue address: Osteria Maria, Leydenallee 79, 12167 Berlin



Follow us on Twitter

Hashtag #FOKUSMWS



Venue

Fraunhofer Institute FOKUS
Kaiserin-Augusta-Allee 31
10589 Berlin



Public Transport

Bus Line: M27

Station: Goslarer Ufer



Maps

s.fhg.de/mwsmap

FLOOR PLAN

