Outline

- **Overview of UHAPI Forum**
  - Objectives
  - Roadmap and deliverables
  
  John Vugts

- **UHAPI - DirectFB**
  - Brief UHAPI overview
  - DirectFB meets UHAPI
  
  John Vugts

- **UHAPI4Linux**
  - Project outline
  - Technical outline
  
  Arjen Klomp
Universal Home Application Programming Interface

UHAPI Forum

Board of Directors (BoD)

- Administrative Committee (AC)
- Marketing Committee (MC)
- Technical Committee (TC)

- WG ATSC
- WG PVR
- WG3
UHAPI Forum Objectives

- Enable the emergence of a cross-platform cross-vendor software industry for middleware & applications
  - For non-differentiating software for CE or Semiconductor companies
  - Create industry alignment on Audio/Video API for consumer products

- Deliver Audio/Video API suited for the CE industry
  - Very well described, very well documented
  - Interface specification of A/V functions
  - Complete enough for CE manufacturers and their software partners to develop their software
  - Use accepted and required mechanisms
    - E.g. Error handling, Notifications, binding etc.
  - Hardware independent
  - Retain room for individual product differentiating
    - E.g. proprietary picture algorithms, specific decoders etc.
    - Differentiating software applications
**UHAPI Forum deliverables**

- **UHAPI Forum delivers**
  - UHAPI Architecture documentation
  - UHAPI Specifications
  - White papers

- **Member companies add**
  - UHAPI compliant semiconductor solutions
  - UHAPI compliant software solutions
  - AtosOrigin: UHAPI simulator
  - Bores Signal Processing: UHAPI training classes

- **Specifications available also to non-members**
  - Anyone can download the UHAPI 1.0 Specification at no cost
    [www.uhapi.org](http://www.uhapi.org)
UHAPI Roadmap

First focus: Consumer Home devices with A/V processing

Initial Architecture

UHAPI 1.0 released January 5th 2005
  - Analog and Digital TV ATSC

Working on additions for
  - Digital TV DVB (Draft)
  - Personal Video Recording (Draft)
  - DVD Recording & Playback

Foreseen additions for
  - ISDB
  - DLNA UPnP AV
  - DRM / content protection
UHAPI Scope

- **UHAPI Specification is complementary to the Linux Operating System**
  - UHAPI does not (re-)define existing specification or standards
    - Filesystem, Connectivity

- **UHAPI Specifications are open and available also to non-UHAPI-Forum-members**
  - Anyone can download the UHAPI 1.0 Specification at no cost
  - UHAPI 1.0 Specification is royalty free
Universal Home Application Programming Interface

UHAPI Forum Specification timeline

- Confirmed plan

- **Initial Architecture**
  - Hardware independence
  - Technology choices
  - Verification

- **DTV/ATSC release**
  - Covers basic DTV/ATSC
  - Analog TV

- **PVR release**
  - HDD recording

- **DTV/DVB release**
  - DVB TV

**UHAPI Specification**

<table>
<thead>
<tr>
<th>Version</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>2004</td>
</tr>
<tr>
<td>1.1</td>
<td>2005</td>
</tr>
<tr>
<td>1.2</td>
<td>2006</td>
</tr>
</tbody>
</table>