

# UHAPI

## Introduction



*CE Linux Forum*

June 2005

[www.uhapi.org](http://www.uhapi.org)

# Outline

- **Overview of UHAPI Forum**
    - Objectives
    - Roadmap and deliverables
  
  - **UHAPI - DirectFB**
    - Brief UHAPI overview
    - DirectFB meets UHAPI
  
  - **UHAPI4Linux**
    - Project outline
    - Technical outline
- John Vugts
- John Vugts
- Arjen Klomp

## UHAPI Forum

ACCESS

Atos  
Origin

BORES  
Signal Processing

DTVIA

hp  
invent



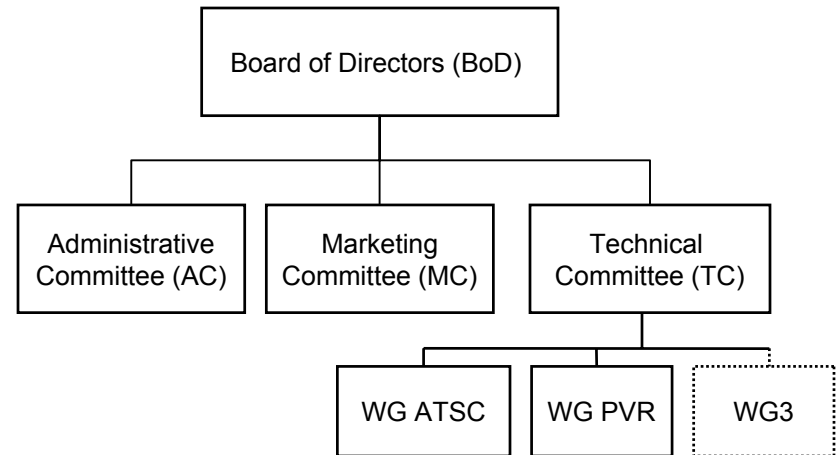
NVIDIA



mediabolic

SAMSUNG

PHILIPS



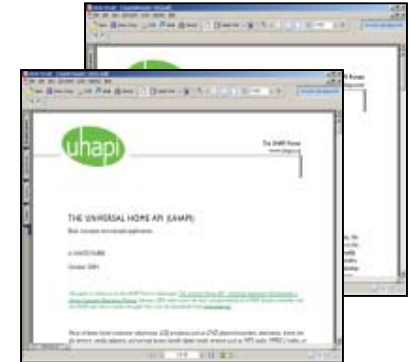
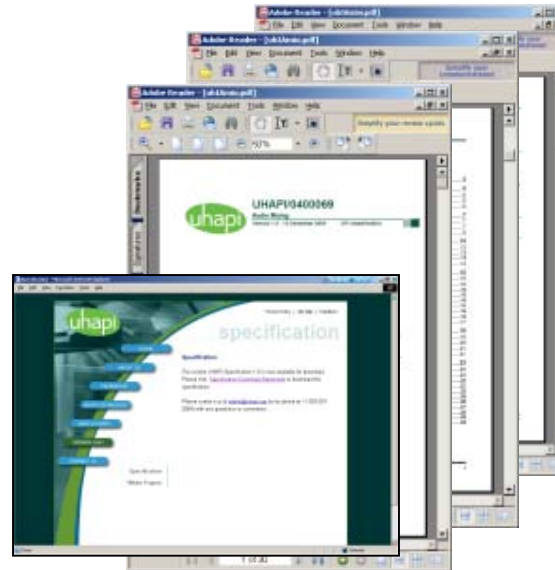
# UHAPI Forum Objectives

- **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

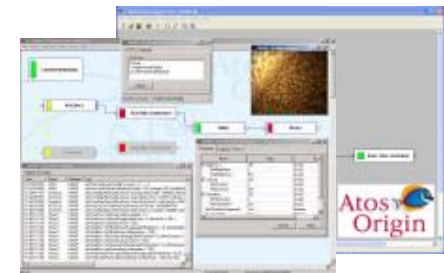
## ■ UHAPI Forum delivers

- 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 5<sup>th</sup> 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

# UHAPI Forum Specification timeline

■ Confirmed plan

