

# Miracast Case Study

Leading consumer electronics company establishes interoperability across devices with Ittiam's Miracast stack



## CONSUMER MOBILITY

### SUMMARY

**Customer Profile**  
Streaming platform provider

**Region**  
USA

**Industry**  
Consumer Electronics

**Solution**  
• Miracast Stack

**Challenges Addressed**

- Running products on performance-constrained platforms
- Integration with proprietary interfaces
- Support for the latest HDCP2.2 standard

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### CUSTOMER

The customer is a top smart TV platform provider from USA and one of the world's leading streaming device vendors.

### ENGAGEMENT BACKGROUND

Ittiam integrated Miracast stack into the customer's product lines including their smart TV platform and streaming players. We integrated the Miracast stack with the proprietary interface of the wireless chipset used by the customer.

### KEY CHALLENGES

The customer was seeking a solution for deployment in multiple consumer products based on a common platform. However, they faced the following key challenges:

- Need for support for multiple SOC platforms running Linux 2.6 to 4.x, including MIPS and ARM
- Handling computationally intensive HDCP processes without any dedicated hardware accelerator on CPU constrained platforms
- Ensuring ease of integration of components with proprietary interfaces for faster time-to-market
- Driving quick connect and disconnect
- Need for dynamic HDCP protocol version support depending on the transmitter version
- Ensuring support for HDCP 2.0 and HDCP 2.2 keys

### SOLUTION OVERVIEW

Ittiam actively supported the customer in rolling out its Miracast SDK across their entire product portfolio. Key features of our solution included:

- Miracast protocol version: Wi-Fi Display 1.1
- HDCP version: 2.0/2.1/2.2 protocol with 2.0 and 2.2 keys
- CPU: ARM and MIPS
- OS: Linux 2.6 to 4.x

### IMPACT

Ittiam's Miracast SDK provided effective interoperability across a wide range of source devices including Microsoft Windows and Android devices. Convinced of our capabilities, and delighted by the engagement experience, the customer has further expanded the scope of the project with additional requirements for product updates.

### About Ittiam

Ittiam Systems is a global technology company with deep R&D driven solutions for media creation, management and consumption. Ittiam provides advanced media codecs, software development platforms, systems and workflows for embedded and online applications. Its solutions are at the heart of tens of millions of lifestyle products that drive mobility, content access, networking and sharing.

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