

PRE-PAID IN-FLIGHT ENTERTAINMENT SYSTEM DEVELOPMENT



THE CLIENT

The client is a leading airlines company.



BUSINESS NEED

The client envisaged to have an In-Flight Entertainment System based on a prepaid USB stick usage. Using it, airlines customers could buy time-units from a charging terminal (Laptop) & enjoy in-flight entertainment such as video or even buy gifts in the flight. ALLEN Calsoft Labs designed the Proof of Concept (POC) demo to showcase it to potential customers at a trade show (WAEA).

The biggest challenge was the time and the demo was to be made ready in 5 weeks for the WAEA exhibition in US. The activity included from building the hardware including ARM boards, relay boards and development of ARM board firmware to the AVOD server, Hand-held terminal, POS terminal application and GU.



TECHNOLOGY USED

- ⦿ **Hardware:** ARM9, USB 2.0, Ethernet, LCD, RS232, GPIO
- ⦿ **Software:** Windows XP, Timesys Linux 2.6, .NET



BUSINESS BENEFITS

- ⦿ Anytime and anywhere use



SOLUTION DELIVERED

- ⦿ The system is based on ARM9 micro controller based Seat Control Unit (SCU).
- ⦿ SCU software validates a pre-programmed USB stick, controls the AVOD (Audio Video on Demand) server, controls the power to AC outlet, keep track of the number of time-units consumed after validation & available time-units after the usage.
- ⦿ AVOD server is connected to SCU which keeps running ads normally but switches to entertainment menu when a command prompts.
- ⦿ Charging station is used to recharge a USB Stick with required time-units through credit /debit cards.
- ⦿ Hand-held terminal is used to check the available time units in USB stick or shopping in-flight.



ABOUT ALLEN CALSOFT LABS

ALLEN Calsoft Labs is a next gen digital transformation, enterprise IT and product engineering services provider. The company enables clients innovate, integrate, and transform their business by leveraging disruptive technologies like mobility, big data, analytics, cloud, IoT and software-defined networking (SDN/NFV). ALLEN Calsoft Labs provides concept to market offerings for industry verticals like education, healthcare, networking & telecom, hi-tech, ISV and retail. Headquartered in Bangalore, India, the company has offices in US, Europe and Singapore. ALLEN Calsoft Labs is a part of ALLEN group, a leader in technology consulting and engineering services.

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