

Interlocked Video Recording System

The customer is a leading Japanese company.

Business Objective

PocketPC 2002 based application development and integration on Compaq iPaq H3950 PDA.

System Overview

This is a proprietary concept – Interlocked Video Recording System, which demonstrates synchronizing multimedia streams to a mobile device and a stationary Home Server, thereby enabling the user to record desired programs in the Home Server using PDA, for later viewing.

This was implemented as an experimental demonstration system with three main components – PDA (Compaq iPaq H3950), Home Server PC (HS) and Broadcast Station PC (BS). The PDA communicates with BS and HS via WLAN (IEEE 801.11b) in an infrastructure type wireless network, the user interface being a GUI developed using embedded VC++ 3.0.

The GUI was integrated with third party streaming client library, which supports MPEG-4 video and MPEG-1 audio decoder and the FlexMux splitter. The PDA user can switch channels transmitted from BS, start or stop sync, do scene or program recording. Also programs recorded in the HS can be played back or removed from PDA.

Development Environment

Tool/Software: eMbedded Visual Tools 3.0 (eVC++ 3.0)
PPC 2002 SDK, ActiveSync 3.5, Apache HTTP Server 1.3
Third party (Hitachi) MPEG-4 decoder library

Working Platform: WinCE 3.0 (PocketPC 2002), Red Hat Linux 7.2