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**MITSUBISHI ELECTRIC ANNOUNCES DEVELOPMENT OF PLAYBACK  
CONTROL MIDDLEWARE FOR BLU-RAY DISC PLAYER.**

**Tokyo, February 15, 2005** – Mitsubishi Electric Corporation (President and CEO: Tamotsu Nomakuchi) announced today the successful development of their playback control middleware for Blu-ray Disc players. Blu-Ray has been highlighted for its higher video quality, and is expected to be the successor of current DVD devices. The developed middleware conforms to Audio Visual Basic Specifications of Blu-ray Disc Read-only Format and serves as the core component to control a LSI in the player to playback Blu-ray Read-only Discs. Implementing this playback control middleware into the control software of the player will accelerate development of Blu-ray Disc player.

Audio Visual Basic Specifications: method currently being discussed by the Blu-Ray Disc Association by which high definition content information/data on a blue ray disk is arranged

**Background and Abstract**

As high definition (HD) digital TV displays have penetrated the home and consumer markets, there has also been a wait for a laser disc player capable of recording higher definition images than the DVD standard. Blu-ray has special functions like the ability to display high-resolution images and playback complex interactive material not capable on DVD. However, in player development, a major source of development has been devoted to programming, and a particularly large amount of resources have been devoted to playback control middleware that analyzes control information data described in the disc that executes regeneration of the video contents. The algorithm of the LSI in the player as well varies depending on the model, so it is necessary to design software for each different LSI.

## Main Features

1. Development of playback control middleware that conforms to Blu-ray Read-only graphic specifications

Blu-ray disc read-only graphic specifications regulate complicated interactive and high-resolution animation graphics not possible with DVD. Mitsubishi Electric has developed playback control middleware, run on a PC, not only for HD video playback, but also responsive to these new functions.

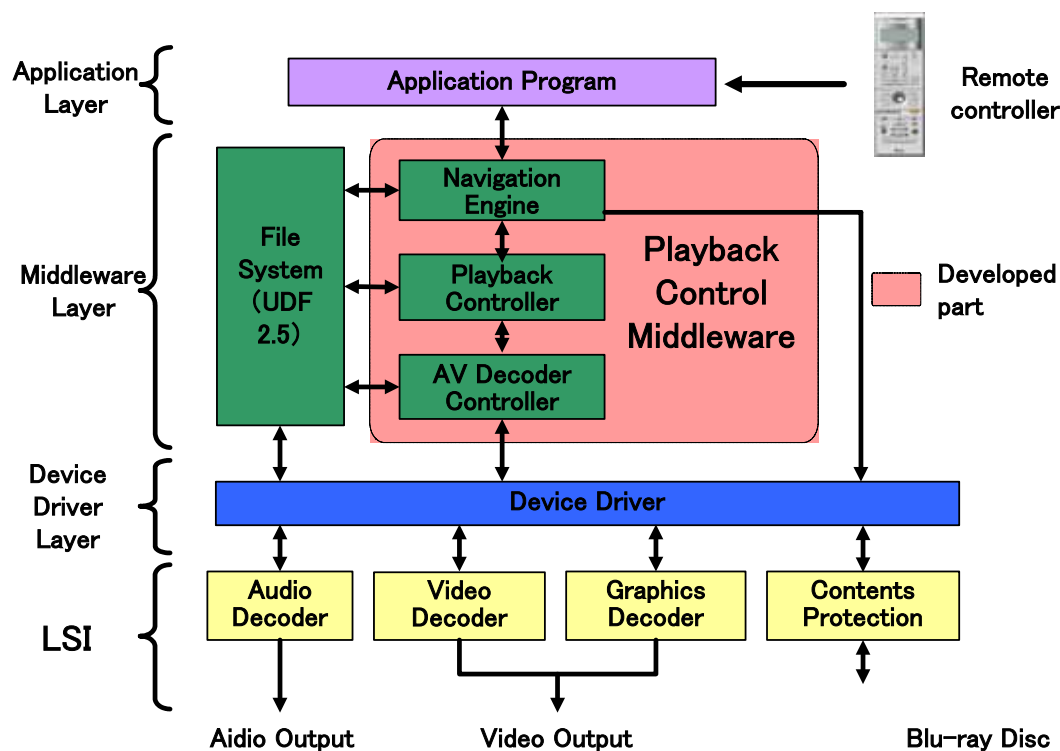
2. Playback control middleware with low dependence on LSI architecture accelerating player development

We have removed the part from the playback control middleware that depends on the LSI hardware and have replaced it with the multi-purpose API (Application Programming Interface). By just putting a simple interface layer between the playback control engine and the platform device driver, the structure makes it responsive to various different platforms. By using this, it will be possible to greatly reduce the amount of development time and resources.

## Future Developments

This technology can be adapted to a wide variety of product configurations. Mitsubishi Electric will apply it to hasten development of the Blu-ray Disc player product currently under development.

Mitsubishi Electric has developed playback control middleware for Blu-ray Read-only Disc player. The features have low dependence on LSI architecture and applicability to a variety types of products, which will accelerate the development of a Blu-ray player.



Block Configuration of Blu-ray Disc Player

**About Mitsubishi Electric**

With over 80 years of experience in providing reliable, high-quality products to both corporate clients and general consumers all over the world, Mitsubishi Electric Corporation (TSE:6503) is a recognized world leader in the manufacture, marketing and sales of electrical and electronic equipment used in information processing and communications, space development and satellite communications, consumer electronics, industrial technology, energy, transportation and building equipment. The company recorded consolidated group sales of 3,309 billion yen (US\$ 31.2billion\*) in the fiscal year ended March 31, 2004. For more information visit <http://global.mitsubishielectric.com>

\*At an exchange rate of 106 yen to the US dollar, the rate given by the Tokyo Foreign Exchange Market on March 31, 2004.