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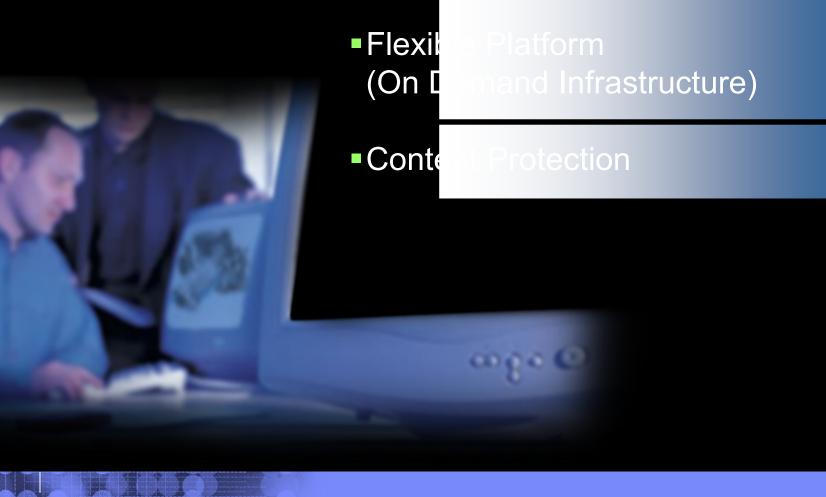
IBM Digital Media New Opportunities for Content and Ensuring Content Protection

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2 Key Plays





The Problem for Home Networks Today

Delivering secure content from multiple sources to the home

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A simple example:

* Watch movie on DSTB
* Record with a DVR
* Copy to a DVD
* Play on a laptop

Consumer expectations are rapidly escalating



The Two Dominant Content Security Systems Today

Conditional Access Systems

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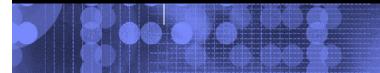
Focused on protection and subscriber management of broadcast content Does not easily support requirements for the today's content distribution environment

- Media
- Devices
- Content

End-to-end DRM's

Tend to be proprietary solutions: Microsoft, Real Networks, etc PKI based so identity required Significant IP Issues Designed for PCs as Clients with complex software & lack user friendliness Approach does not meet the requirements of all business models - Broadcast, home networks, games, etc

Not well suited for embedded processors and CE devices





A Business Model for Success

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Broadcast Encryption

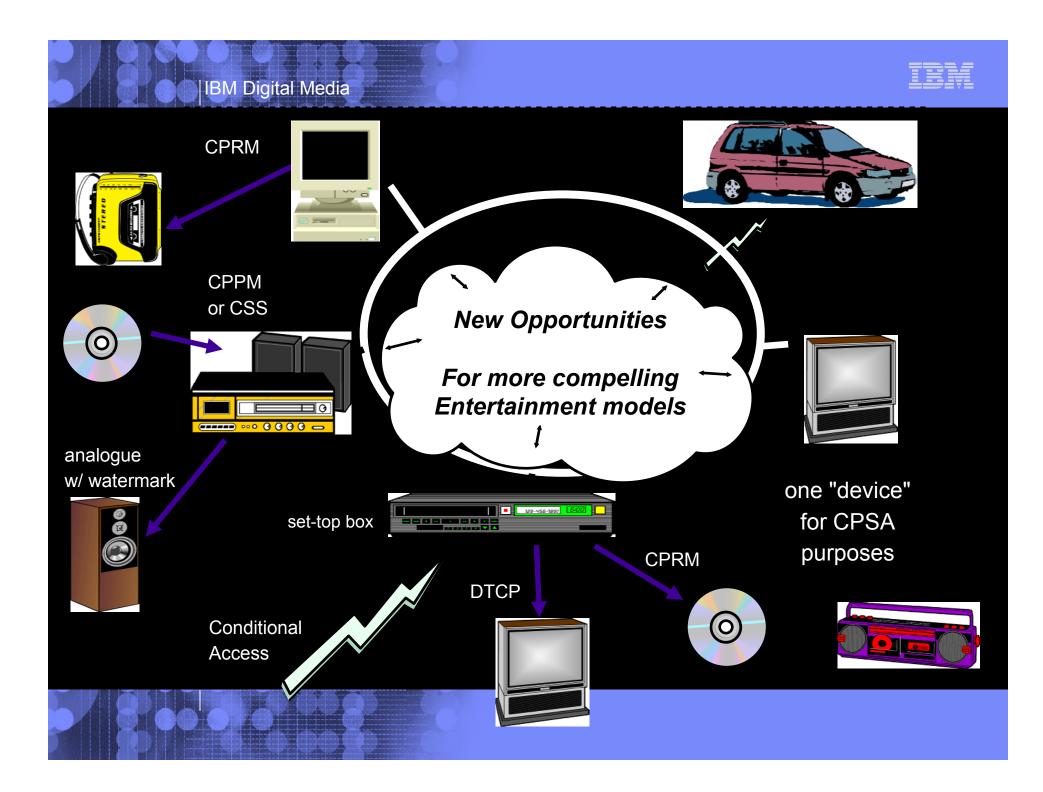
Small footprint Transparency to consumer Enable business models that support Both physical and electronic distribution

Technology Licensing

Establishes rules for participants in the eco-system Protects participants from IP litigation

Open Standards

Market place acceptance across many devices







IBM Digital Media Thank You!







Broadcast Encryption is widely used today

Broadcast Encryption used today in two major consortia

4C

- Founded by IBM, Intel, Toshiba and Matsushita
- Licensing CPRM and CPPM technology
- Over 150 adopters and over 200 million devices enabled

AACS-LA

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- Founded by IBM, Intel, Sony, Toshiba, Matsushita, Disney, Warner Bros, Microsoft

Will license content management technology for the next generation optical media (high definition DVD) by year end

Both 4C and AACS LA have been enhanced to enable electronic interaction

Broadcast encryption is being extended to home networking

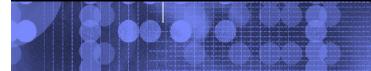


CPRM Download

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The 4C organization recently released the CPRM download spec

- Content is formatted and encrypted with usage information at the server
- Content can be securely downloaded on an unsecured link, to an unsecured recorder and recorded on a CRPM compliant media for playback
 - SD Card
 - Recordable DVD audio





4C Content Protection CPRM download



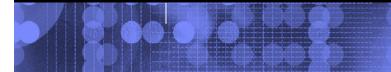


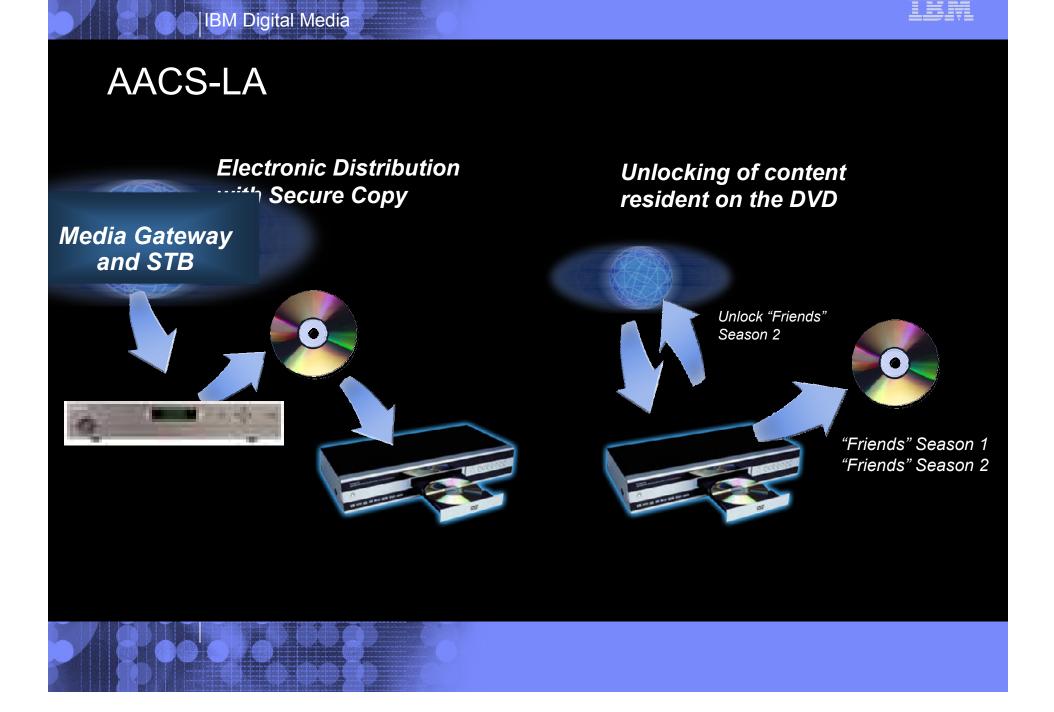
AACS-LA

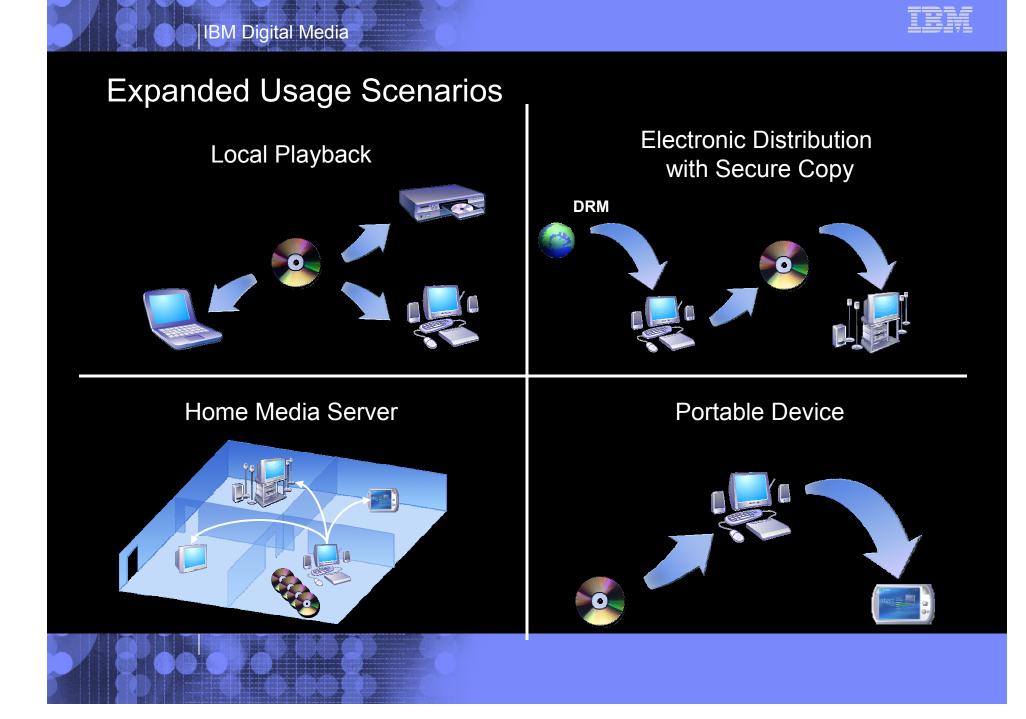
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Designed to protect next generation DVD

Supports both electronic and physical distribution and commerce







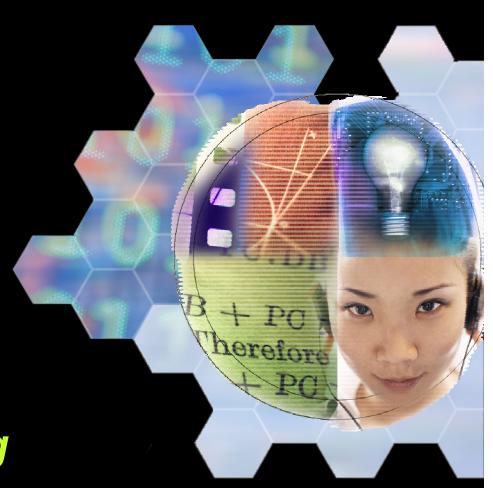


Digital Media Summary Key Areas of Focus

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- Flexible Infrastructure
- Content Protection

PLUS Compelling Content







Digital On Demand Threshold Entertainment

500

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1/2 the Time 1/2 the Cost

Distributed Creative



Digital for the Media Industry Leveraging Assets Across the Globe





On Demand Infrastructure

