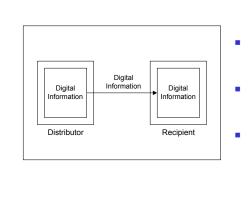


No Control Architecture w/ Message Push (NC1)

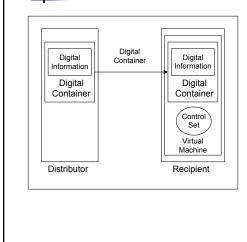


- Distributor directly sends a copy of digital contents to each recipient
- Each recipients stores the copy of digital information at local storage
- After distribution, no direct means to control the distributed digital information
- To access the digital information from multiple system, the recipient needs to transport the information

No Control Architecture w/ External Repository (NC2) Digital information is sent to an external repository server for distribution A recipient must connect to Digital Digital Digital the external repository to Information Information Information access the digital content Once a recipient has received Distributor External Repository Recipient the digital contents, there is no way to control access or usage

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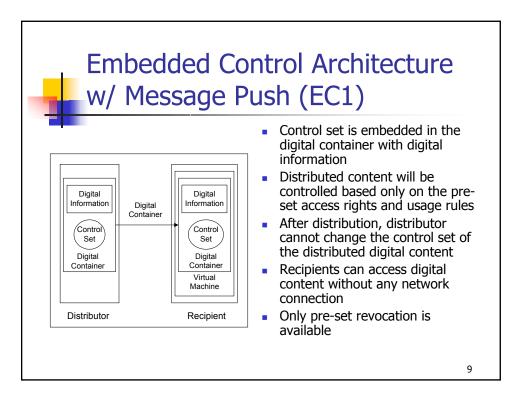
Fixed Control Architecture w/ Message Push (FC1)

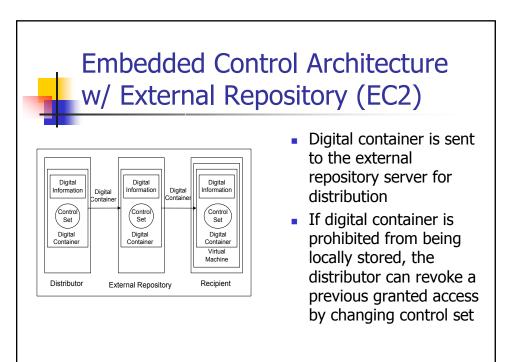


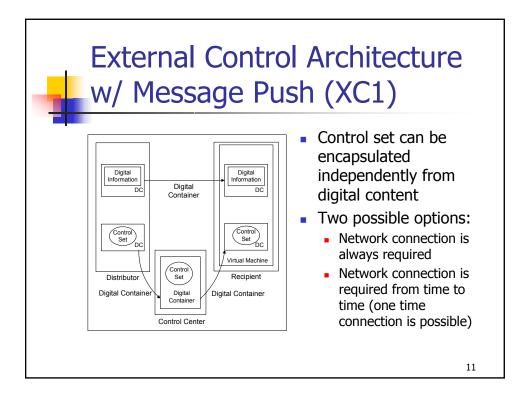
- Digital content is encapsulated in a digital container
- Control set is encoded into virtual machine
- The control set cannot be changed after the distribution of the virtual machine
- Access is controlled based on control set
- Each recipient should keep the received information for further access to it

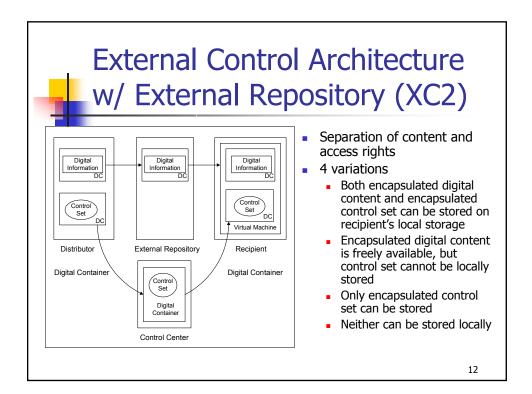
Fixed Control Architecture w/ External Repository (FC2) Similar to FC1, except that digital container is sent to external repository for Digital Digital Digital Digital Digital Containe ntaine Information Information Information distribution Digital Digital Digital A recipient must connect to Containe Container Container the external repository to Control access or download the Set digital container Virtual Machine Accessibility to the content Distributor External Repository Recipient by a single recipient from multiple computers

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Commercial Solutions

Solution	Organization	N C 1	N C 2	F C 1	F C 2	E C 1	E C 2	X C 1	X C 2
Adobe Acrobat	Adobe					Х			
PDF Merchant & WebBuy	Adobe								x
PageVault	Authentica							Χ	
SoftSEAL	Breaker Technologies								Х
Confidential Courier	Digital Delivery, Inc.					x			
docSPACE	DocSPACE Co.		Х						
CIPRESS	Fraunhofer Institute for Computer Graphics & Mitsubishi Co.								x
Cryptolope	IBM							Χ	
InTether	Infraworks Co.					Χ			
InterTrust	InterTrust Technologies Co.							Χ	
RightMarket	RightMarket.com Inc.							Х	

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