

# IMArchive, Intelligent Media Archive

Media Archive Solution Co., Ltd.



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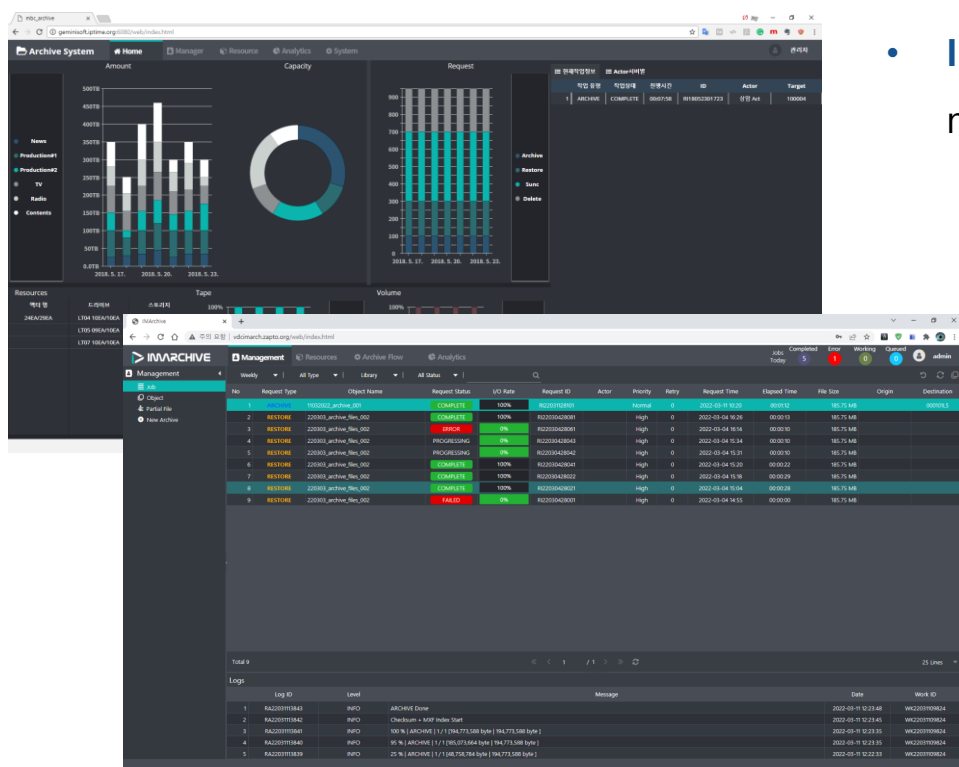
# IMArchive Introduction

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# IMArchive: For easier LTO archive system



**IMArchive(Intelligent Media Archive)** is a **media archive solution** that allows media data stored in SSD/HDD-based RAID to be transferred and managed to object-based storage such as LTO.

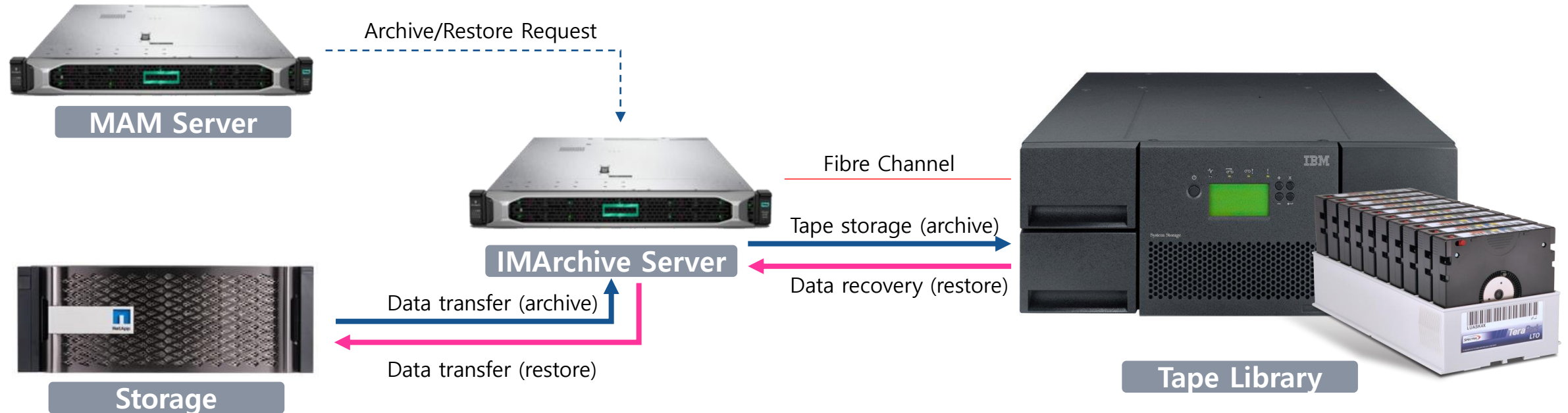


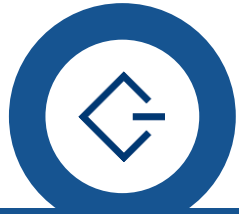
- **IMArchive** is an archive solution that can perform hierarchical storage management and safely store/manage media in various storages.
  - We have integrated the archive system know-how we have built over 20 years into IMArchive. Tape library control technology, LTFS technology, and monitoring technology for archives were all developed and researched in-house.
- IMArchive is implemented on standard LTFS, enabling data recovery at any time.
- You can check archive/restore operations using a web browser.

# IMArchive: Workflow



IMArchive is a product developed to store media in High Latency media, which are safer than hard disks, and uses ODA (Optical Disc Archive), Ultrium LTO (Linear Tape Open), and Robotics to move tapes for data input/output. It is a controlled media archive system.





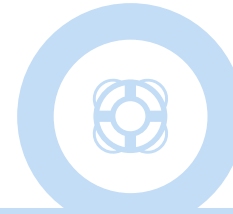
## Robotics control via standard SCSI

A variety of tape library equipment can be supported independently of the vendor



## Transparent LTFS file system support

Standard support for reading on any device using LTFS



## Reliable maintenance and close support

Many broadcasting companies/government offices have MAM and manpower to support news information.



## Stable storage and use of data

Stable storage through duplexing and tripling of original data

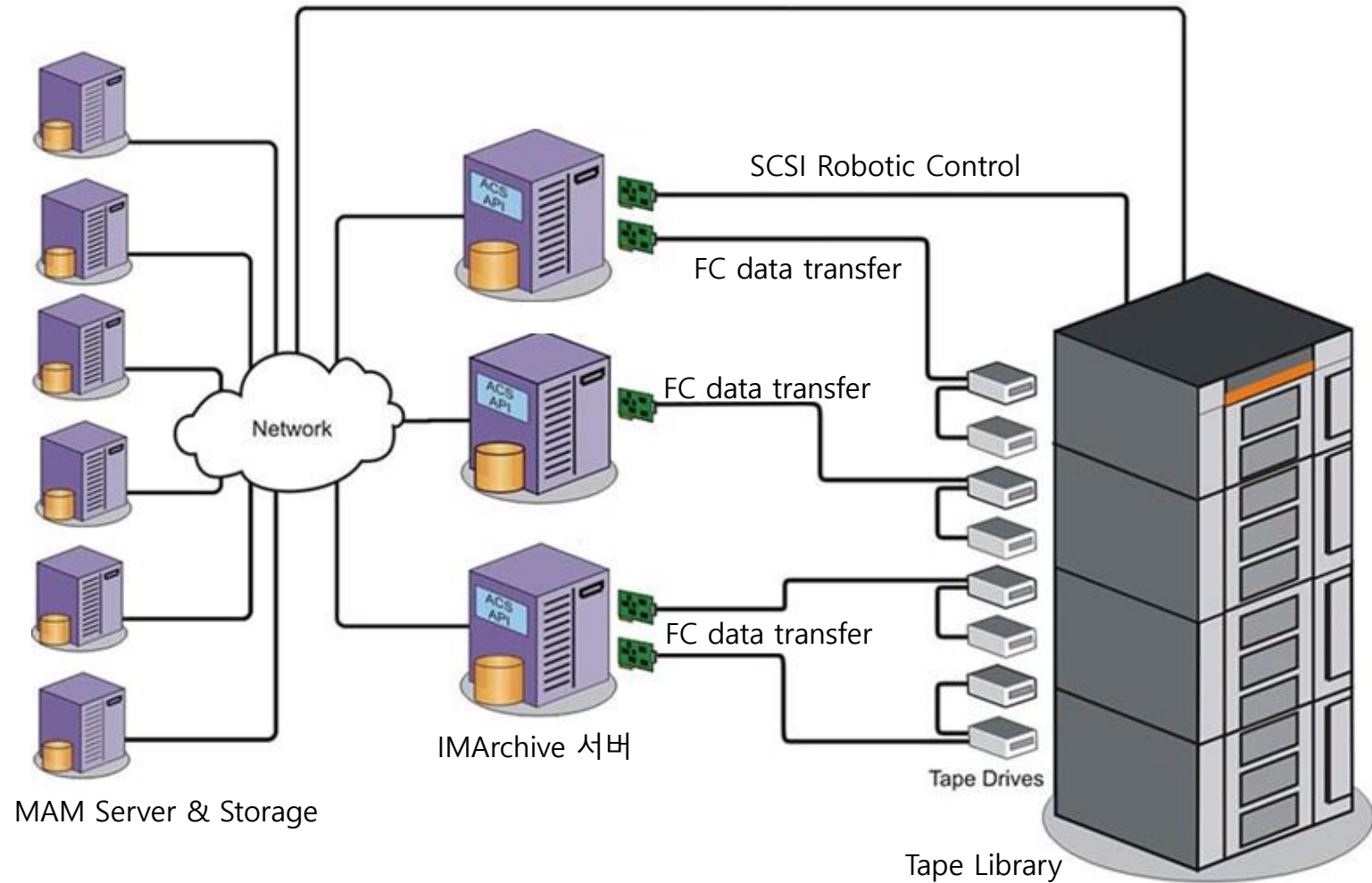
# 02 Main function

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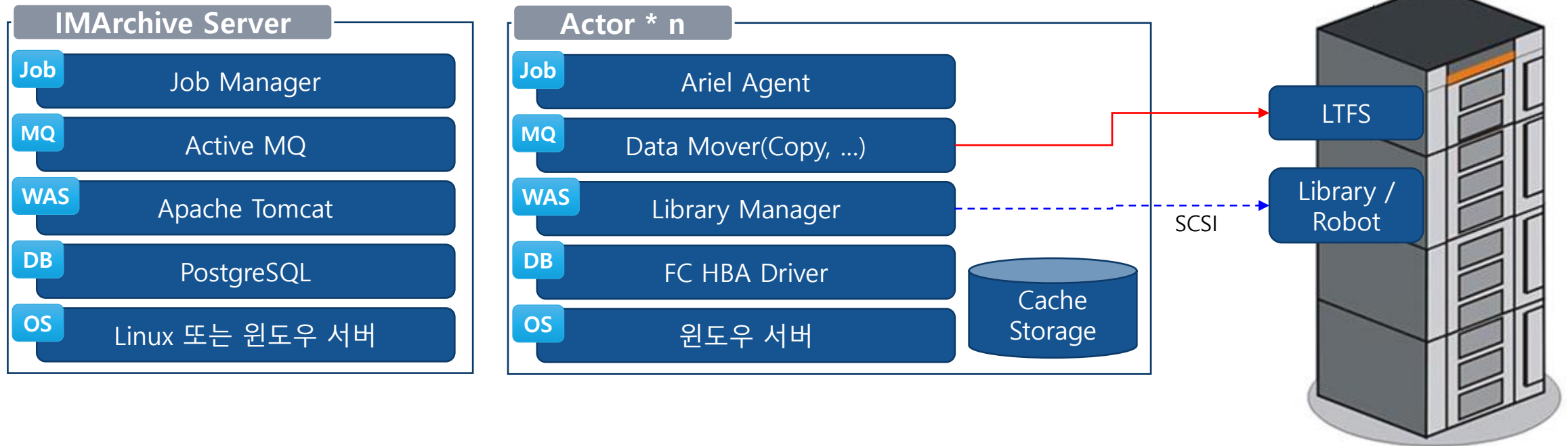
# Robotic control via SCSI protocol



IMArchive uses the standard **SCSI protocol** to control the robot and uses **LTFS** (Linear Tape File System) to store data.



# IMArchive S/W Diagram



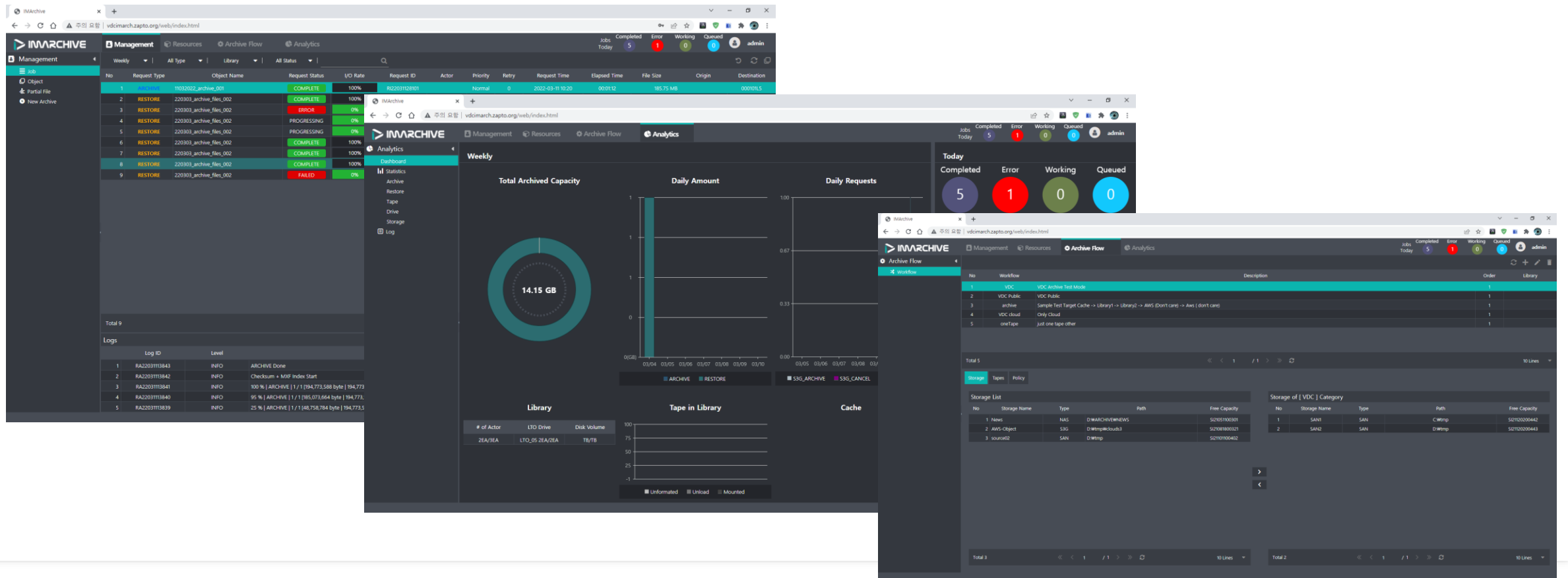
※ ※ IMArchive server and Actor can be integrated into one



# IMArchive GUI



IMArchive provides a web-based screen interface. You can check the operation of the tape library, data in/out status, and archive statistics by accessing the web without the need to install a separate application.



# IMArchive Workflow/Policy



IMArchive is an archive storage and tape  
You can define policies.  
To minimize the possibility of problems with tapes, etc., functions such as dual storage (original-copy) are supported.

IMArchive

ManagementResourcesArchive FlowAnalytics

Jobs TodayCompleted5Error1Working0Queued0admin

Archive Flow

Workflow

No	Workflow	Description	Order	Library
1	VDC	VDC Archive Test Mode	1	
2	VDC Public	VDC Public	1	
3	archive	Sample Test Target Cache -> Library1 -> Library2 -> AWS (Don't care) -> Aws ( don't care)	1	
4	VDC cloud	Only Cloud	1	
5	oneTape	just one tape other	1	

Total 5

StorageTapesPolicy

Tape Groups

Library: All

No	Group Name	Description	Tape Count
1	VDC		1
2	TG21091600024	test	0
3	test1	dsasdawd	0

Total 3

Tape List

No	Barcode	Ver.	Free Capacity	Total Capacity
1	000002L4		1,430,511.47MB	1,430,511.47MB

Total 1

Tapes of [ VDC / VDC ]

No	Barcode	Ver.	Free Capacity	Total Capacity
1	000111L5	LTO_05	1,336,989.50MB	1,430,511.47MB

Total 1

# Library Management



Connected tape libraries  
can be managed.

- Create and manage  
library groups
- Manage each tape  
library

The screenshot shows the IMARCHIVE web interface. The top navigation bar includes 'Management', 'Resources', 'Archive Flow', and 'Analytics'. The right side of the top bar shows job status: 'Jobs Today' (5), 'Completed' (1), 'Error' (0), 'Working' (0), and 'Queued' (0). The user is logged in as 'admin'.

The 'Resources' sidebar is expanded, showing 'Library' as the selected option. The main content area displays the 'Library Group' table and the 'Library' table.

Library Group	IP	Description	Using
GroupLibIMArchive	192.168.1.90		✓
GroupVDCLibraryPublic	vdcmarch.zapto.org	VDC Library Public IP	✓

Library Group	Name	Description	ASC Number	Status	Access Date	Tape Count	Unavailable	Usable	Cleaner Tape	All	Capacity	Free Capacity
GroupLibIMArchive	Archive Library	Main Library	0	ONLINE		0	0	4	0	0	0	0
GroupVDCLibraryPu...	Second Library	Second Library	0	ONLINE		0	0	0	0	0	0	0

# Storage Management



It is possible to set up storage for archiving work.

The screenshot displays the IMARCHIVE Storage Management interface. The main table lists various storage configurations, including News, AWS-Object, IMArchive, Software, Working, source01, source02, AWS-Second, AWS-vdc-public, SAN1, and SAN2. The SAN2 entry is highlighted in red. A modal window titled 'Storage' is open, showing the configuration details for the selected storage entry.

Storage Name	Protocol	Type	Host	Port	Windows Path	Unix Path	Description	Max Access	Active	Deleted
News	NAS	Storage	192.168.0.150	21	D:\ARCHIVE\NEWS		뉴스용 스토리지		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
AWS-Object	S3G	Cloud			D:\tmp\clouds3		Object Storage / Cloud		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
IMArchive	NAS	Storage			D:\tmp\IMArchive		IMArchive		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Software	SAN	Storage			C:\tmp		Threshold -> not work		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Working	SAN	Storage			D:\tmp				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
source01	SAN	Storage			C:\tmp				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
source02	SAN	Storage			D:\tmp				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
AWS-Second	S3G	Cloud			D:\tmp\clouds3_2nd		aws test create a cloud s3g storage		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
AWS-vdc-public	S3G	Cloud			D:\tmp\clouds3_2nd				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SAN1	SAN	Storage			C:\tmp		okay		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SAN2	SAN	Storage			D:\tmp				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

**Storage Configuration Modal:**

Field	Value	Field	Value
Storage Name	IMArchive	Windows Path	D:\IMArchive
Protocol	NAS	MacOS	
Type	Storage	Unix Path	
Transfer Type Code	Active Mode	Virtual Path	
Host		Remote Path	
Port		Threshold	90
Login ID	gemiso_vnc	Description	IMArchive
Password	gemiso_vnc		
JSON key		Active	<input checked="" type="checkbox"/>
Server Storage	IMArchive	Deleted	<input type="checkbox"/>
Library Group Name	GroupLibIMArchive	Default Cache	<input type="checkbox"/>

Buttons: Confirm, Canceled

Thank you

