

# Система ODA



# Система ODA

## Основные особенности и преимущества

Каждый картридж отображается как один том

- 12/11 дисков в каждом картридже

Несколько вариантов картриджей

- Объем 300GB – 3.3TB\*
- Одноразовые/Перезаписываемые
- Гарантия сохранности данных более 50 лет

Открытая файловая система (UDF)

Обратная совместимость



# Линейка существующих картриджей

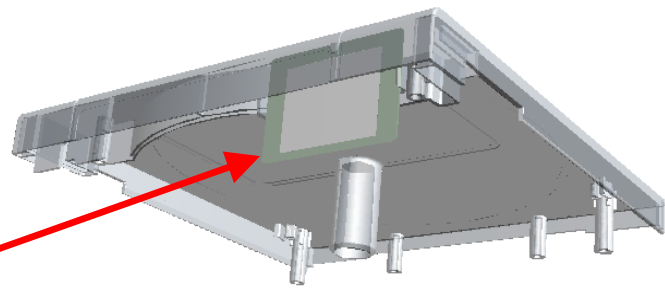


300GB	ODC300RE	RE
	ODC300R	R
600GB	ODC600RE	RE
	ODC600R	R
1.2TB	ODC1200RE	RE
1.5TB	ODC1500R	R
3.3TB	ODC3300R	R



R: Одноразовые  
RE: Перезаписываемые

# ODA картриджи изнутри



NFC модуль памяти



## Корпус

- Отсек для 12/11 дисков
- Ударопрочность при падении с 75см
- Выдерживает вес до 100кг

## Встроенный модуль памяти

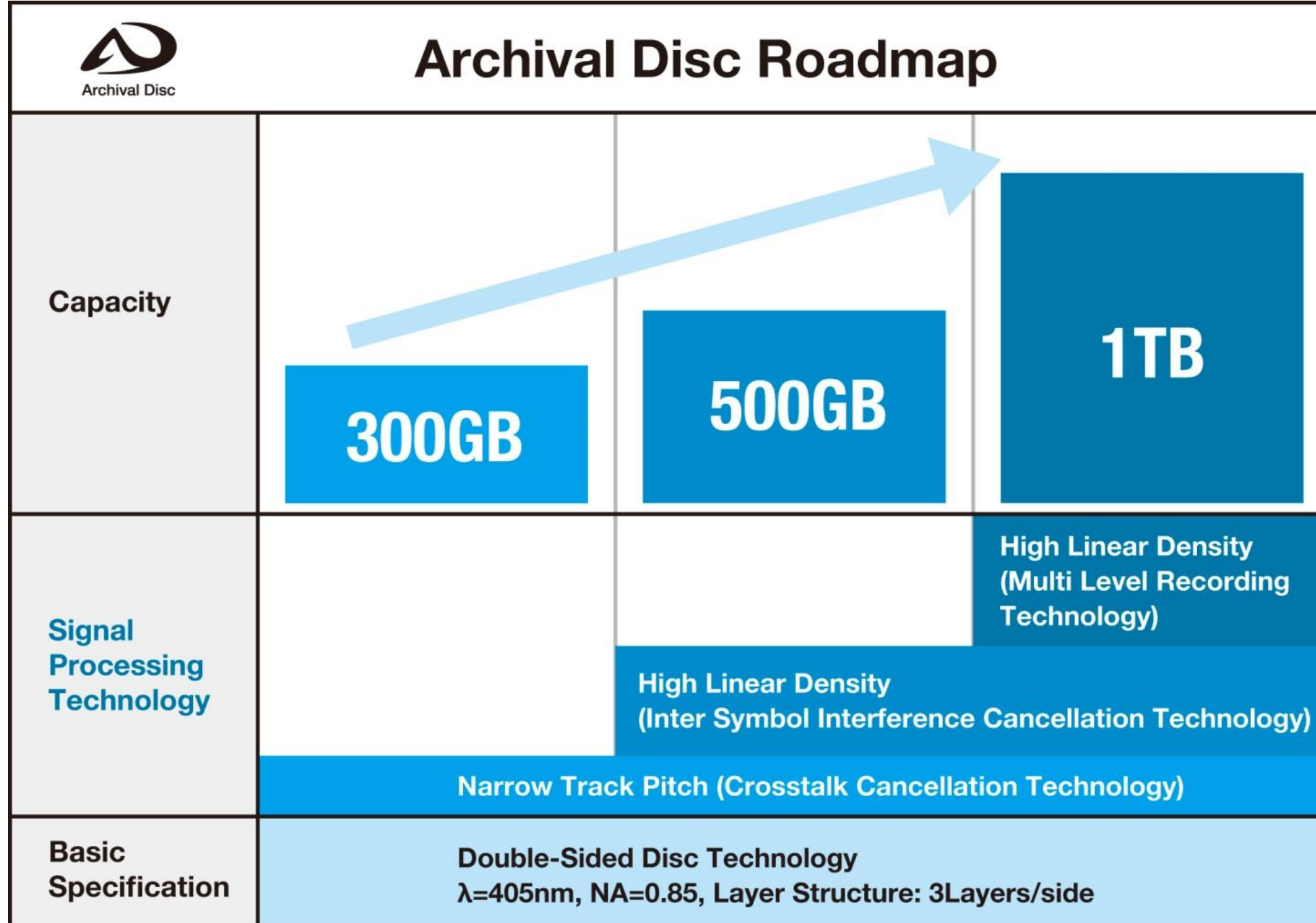
- Идентификационный номер
- Информация о диске

## Хранение

- Прозрачный материал
- Возможность чтения штрих-кодов
- Дополнительная защита



# Развитие технологии «Archival Disc»



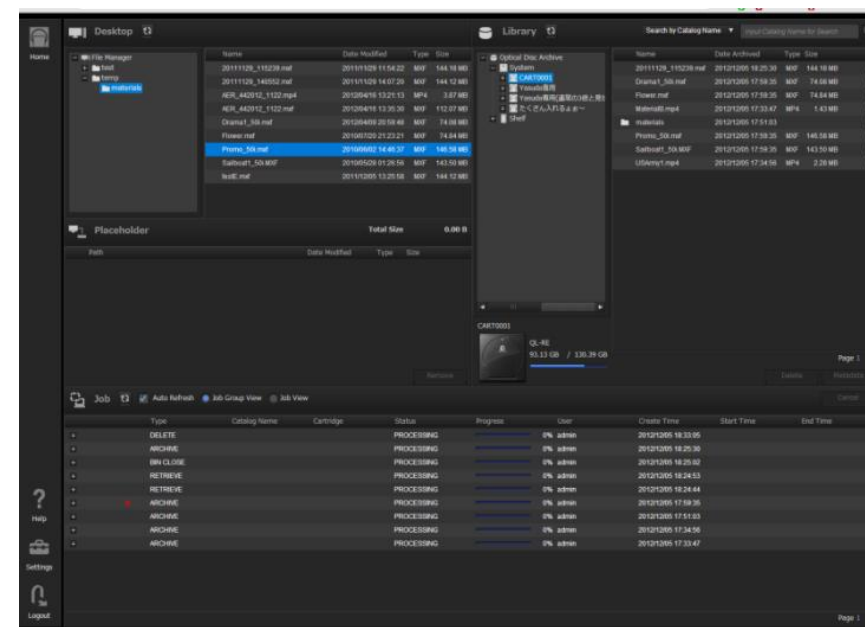
3.3TB

# ODS-L10



Optical Disc Archive

- Начальное архивное решение с возможностью доступа по сети
- До 2 USB приводов
- Нет ограничения общего количества картриджей в системе
- Поддержка различных моделей картриджей
- Форм-фактор настольный или стоечный




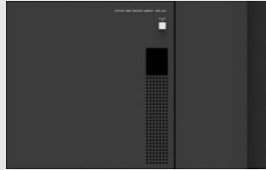
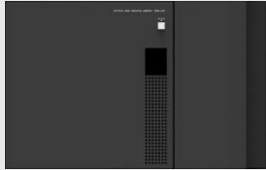
File Manager utility

# Расширяемая серия библиотек

## ODS-L30M

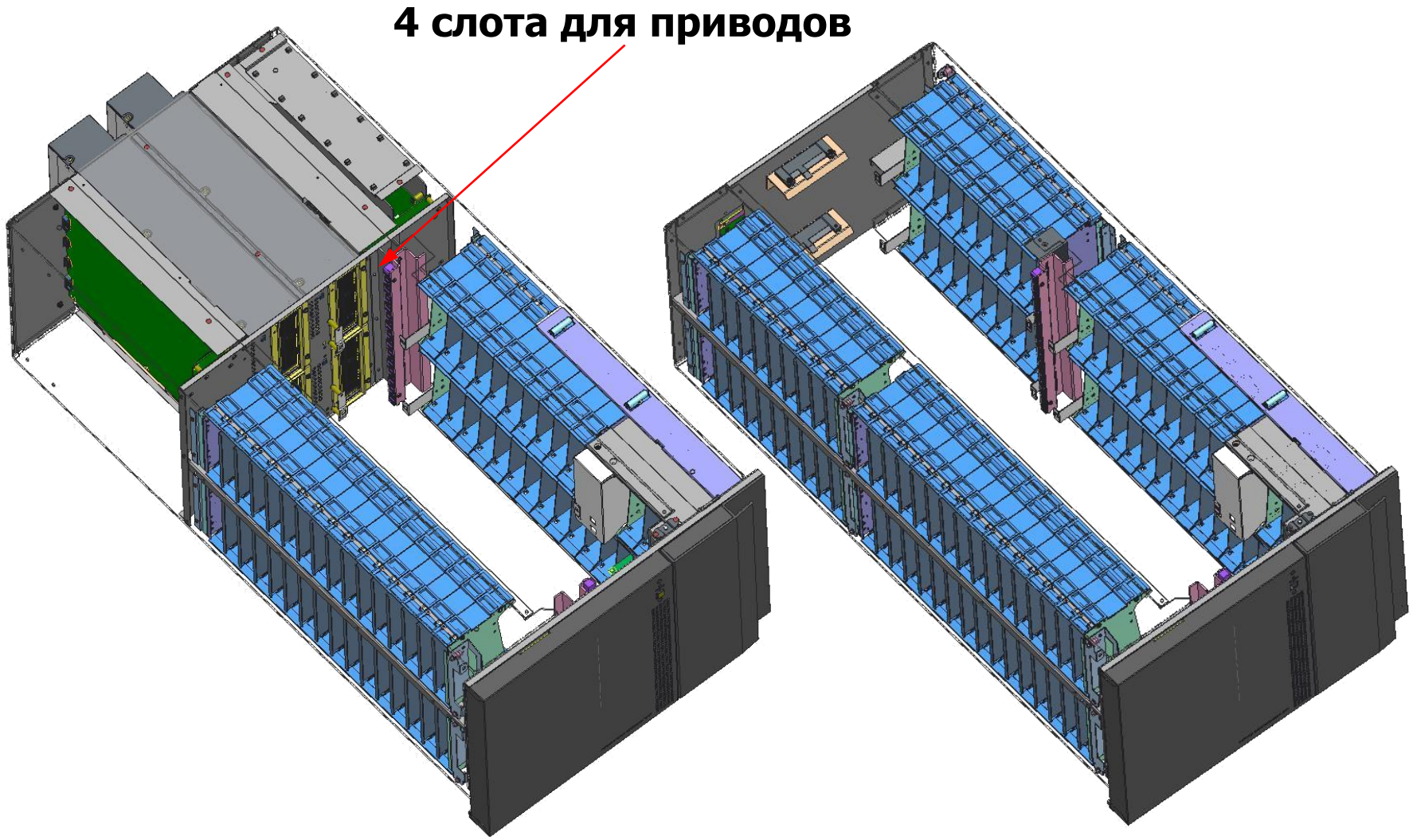
## ODS-L60E

## ODS-L100E

Модель	Главный модуль	Доп.модуль (Привод+карт.)	Доп.модуль (только карт.)
			
Размер (высота)	7U	7U	7U
Макс.к-во приводов	2	4	0
Макс.к-во картр.	30	61	101
Тип подключения	FC 8Gbps x2	FC 8Gbps x4	-
Внутрен.интерфейс	ADI x2	ADI x4	-
Обменные слоты		3	
Внешний доступ	GbEth x2 LCD x1, HDMI x1	-	-



# Расширяемые модули – ODS-L60E и ODS-L100E



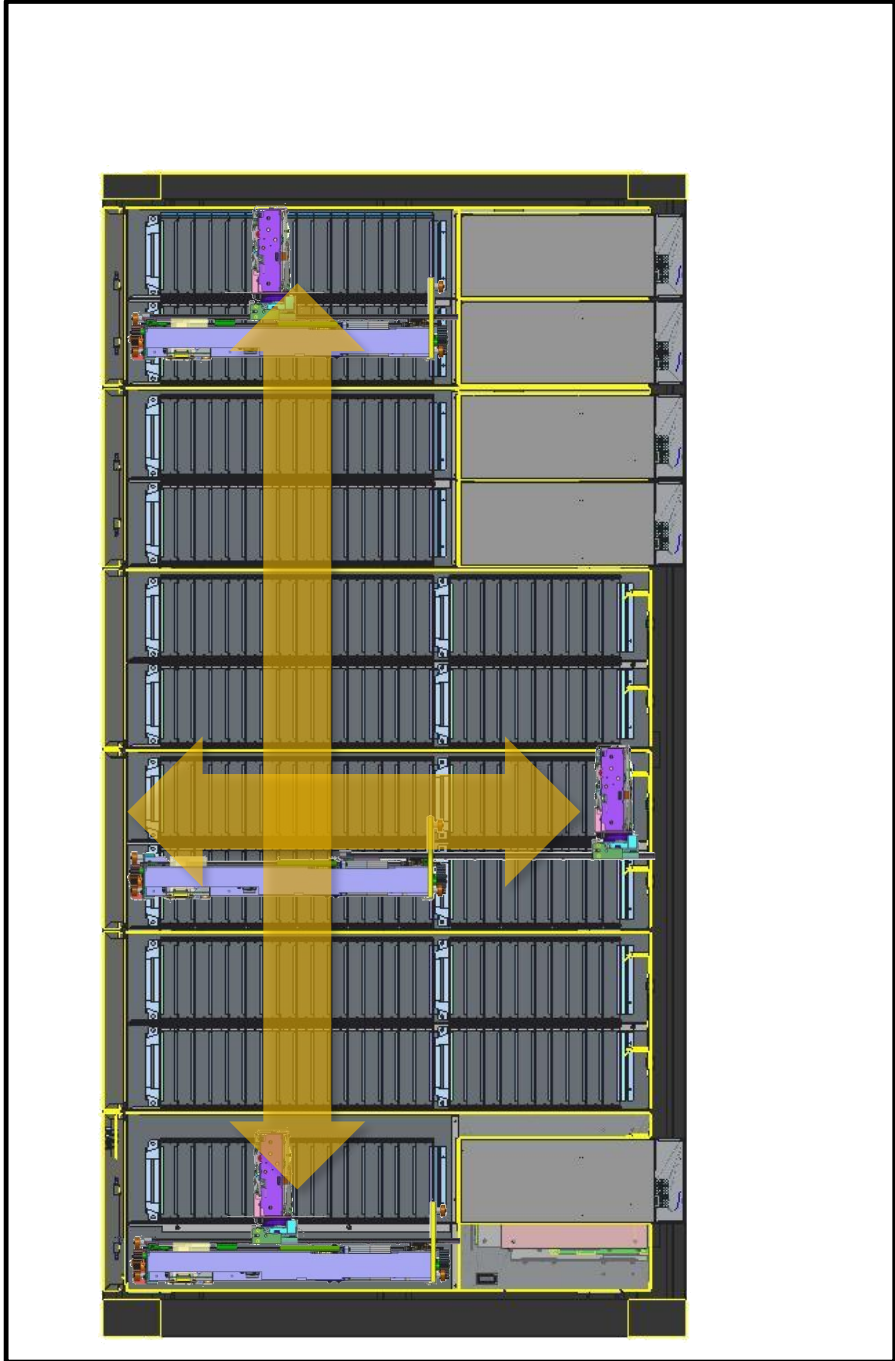
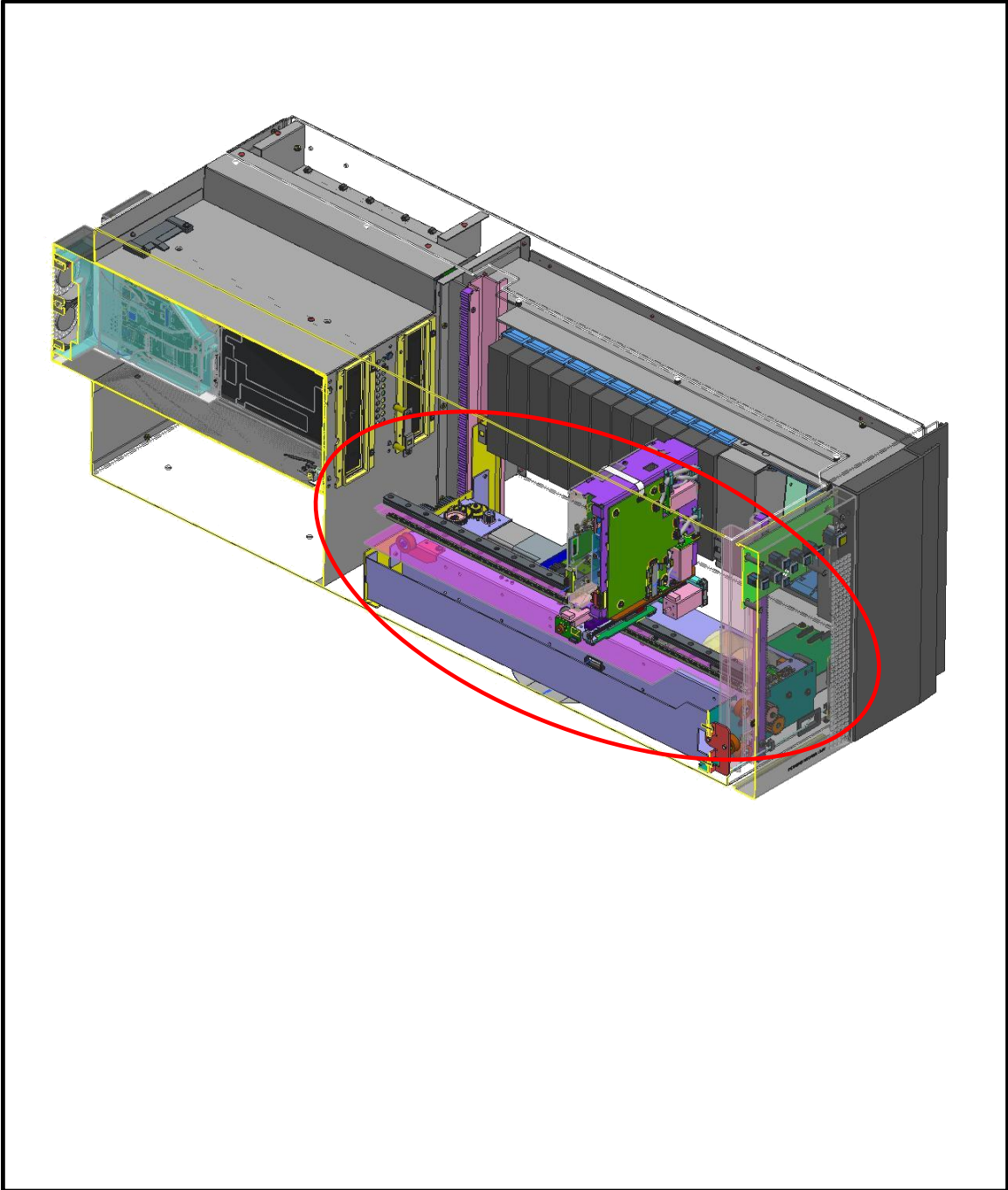
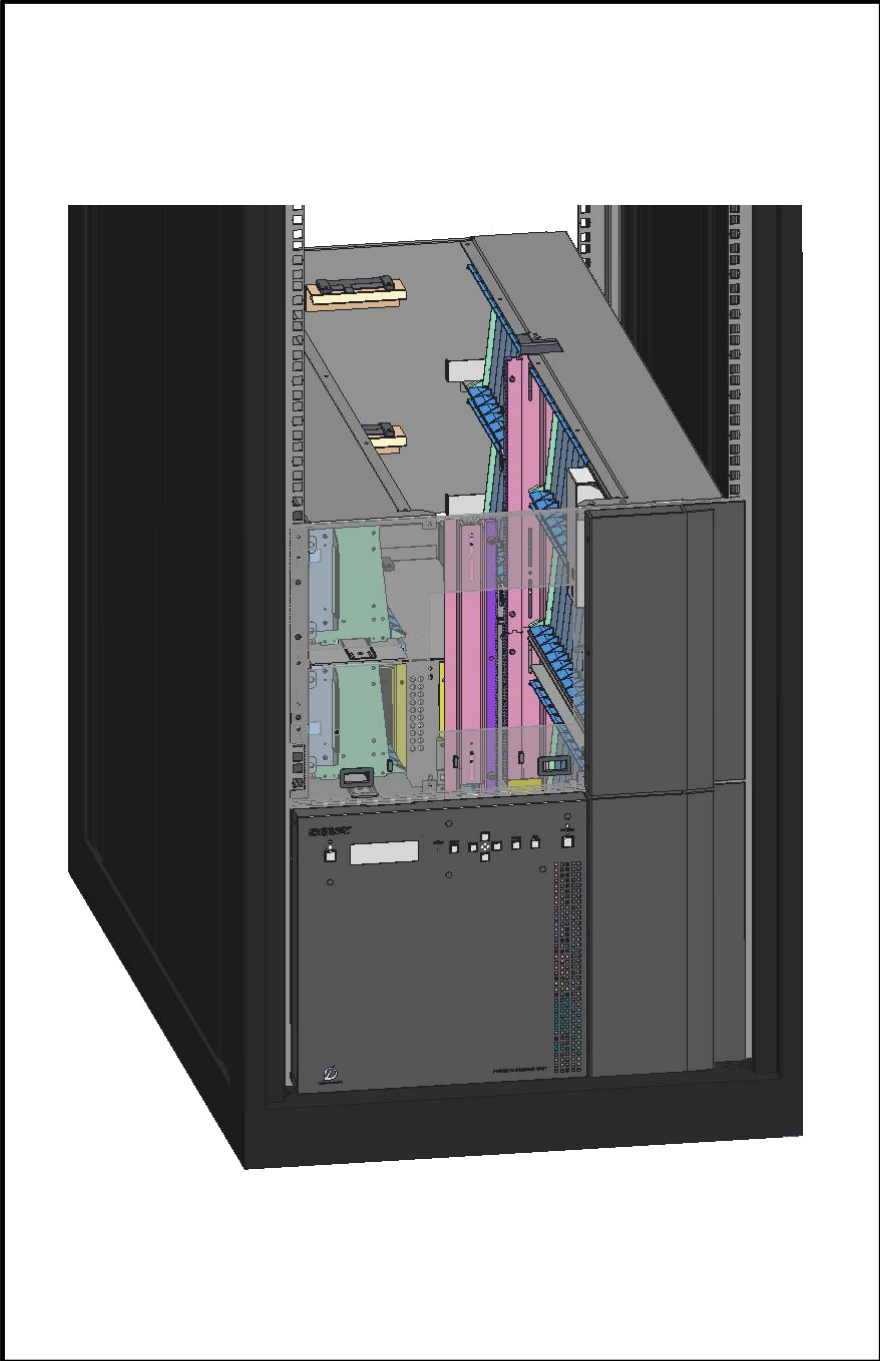
4 слота для приводов

**ODS-L60E**

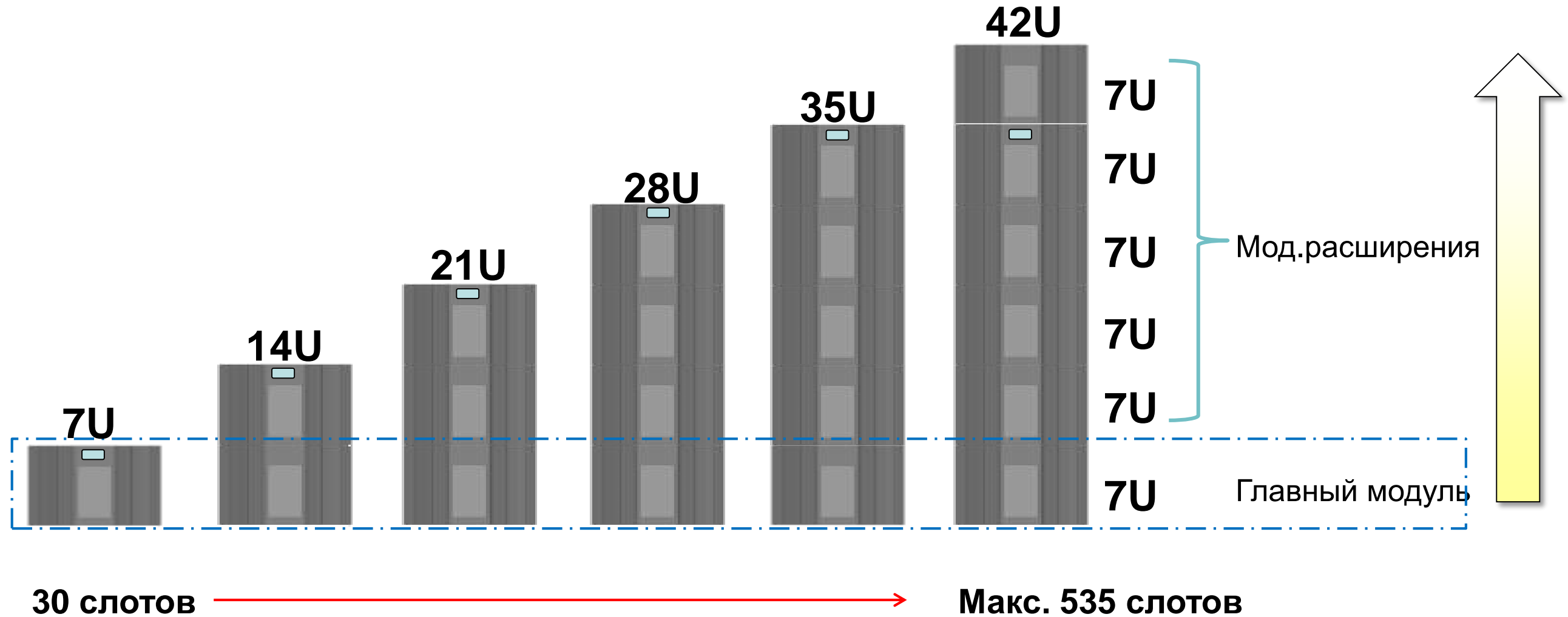
**ODS-L100E**



# Принцип работы робота

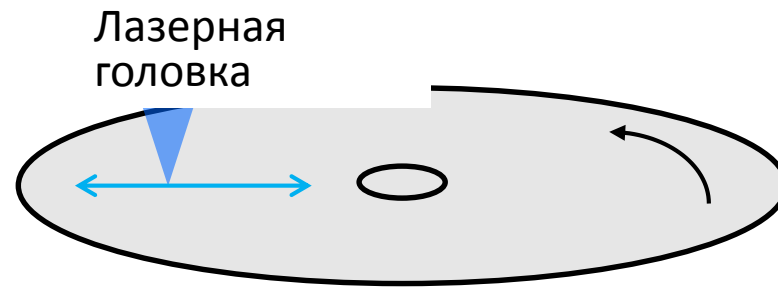


# Расширяемость библиотеки

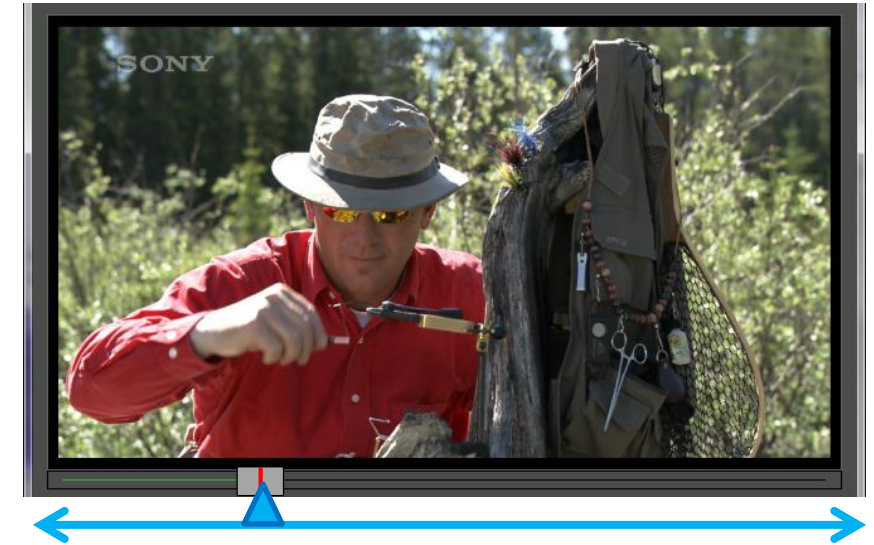


# Прямой доступ

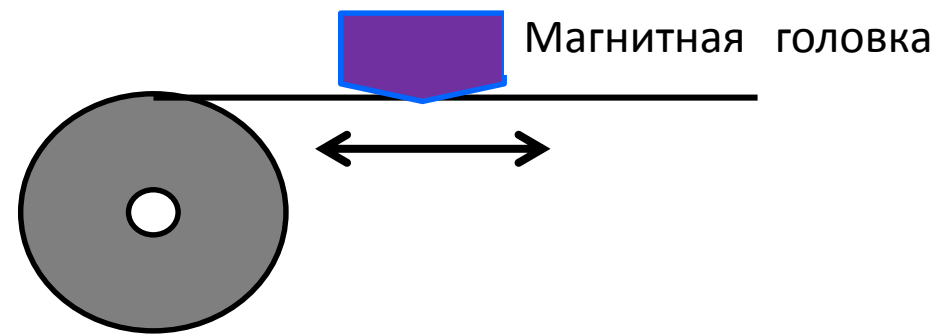
Система ODA



Произвольный доступ



LTO w/LTFS



Линейный доступ





# Надежность и долговечность – Optical Disc

## ■ Отсутствие спец.требований к климату

**ODA**

-10 ~ +55°C

**LTO**

+16 ~ +35°C

Кондиционирование



10,000kwh

25,000kwh

вкл.ИБП

## ■ Не портится от транспортировки



## ■ Неблагоприятные внешние факторы



Excellent



???

**Alliance**  
Management & Technology Inc.

**CASE STUDY**  
Hospital's Data Survives Hurricane Katrina

The Southeast Louisiana Veterans Health Care System (formerly the VA Medical Center, New Orleans) and its outpatient clinics located throughout southeast Louisiana are committed to providing high-quality, compassionate, and safe health care to the more than 220,000 veterans who live in the 23-parish region they serve. The 354-bed acute care facility was affected by flooding following Hurricane Katrina in August 2005.

**Situation**  
Hurricane Katrina, which made landfall near the Louisiana-Mississippi border on the morning of August 27, 2005, and the subsequent flooding caused by the failure of the New Orleans levee system, resulted in one of the largest natural disasters to hit the United States.

Among other things, the hurricane resulted in the sudden closure of several hospitals, including the Southeast Louisiana Veterans Health Care System and its outpatient clinics, which suffered extensive damage. The closure of this system severely damaged the availability of healthcare services for veterans in the New Orleans area. This closure impacted the overall healthcare infrastructure of New Orleans, as well.

**Business Challenge**  
"This has been a year-long process that began with trying to determine the technical status of the hospital," said Kenneth Allen, Health Systems Specialist for South Central Health Care System. "We had to determine what information was retrievable among the absolute chaos of the first week after Katrina," said Allen.

As a result of the flooding caused by Katrina, all medical records from the hospital were destroyed or severely damaged. The only recoverable data based on optical disks from Plasmon™, UDO, and Plasmon and stored in the empty hall of the New Orleans hospital. While the optical disks were not immediately exposed to flood water, the high humidity from stagnant water two floors below caused significant concern over the reliability of the optical disks containing sensitive patient data.

**QuickView**

Organization:  
- Southeast Louisiana Veterans Hospital

Industry:  
- Healthcare

Application:  
- Image Storage

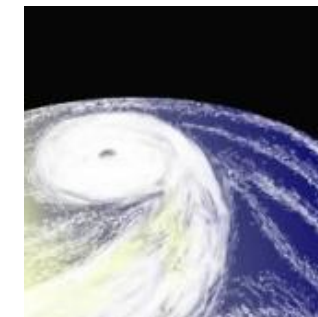
Integrator:  
- Hewlett Packard

Solution:  
- Plasmon™ UDO Archive Appliance

ROI:  
- > 95% patient data recovery after Katrina

"We were able to recover all of the patient images off of the Plasmon libraries... We are now primarily using the Plasmon UDO Archive Appliance for its long-term recoverability."

Kenneth Allen  
Health Systems Specialist  
South Central Health Care



Только данные с ODA были сохранены после урагана Katrina



# Партнеры

# Партнеры систем ODA



# Партнеры систем ODA

北丞蓝光 存储无忧  
www.bctop.cn



**E**STRUCTURE<sup>®</sup>  
media systems



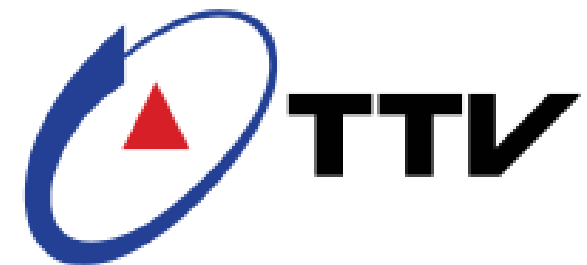
mediaPORTAL



ODYSSEY  
Development 



 storageDNA  
Master Your Digital Workflow



**VSN**  
INNOVATION & MEDIA SOLUTIONS

**V-TECH**  
Professional Video Solutions

**SYNCHRO**

# Примеры реализованных проектов



# The Golf Channel Project



GOLF CHANNEL®

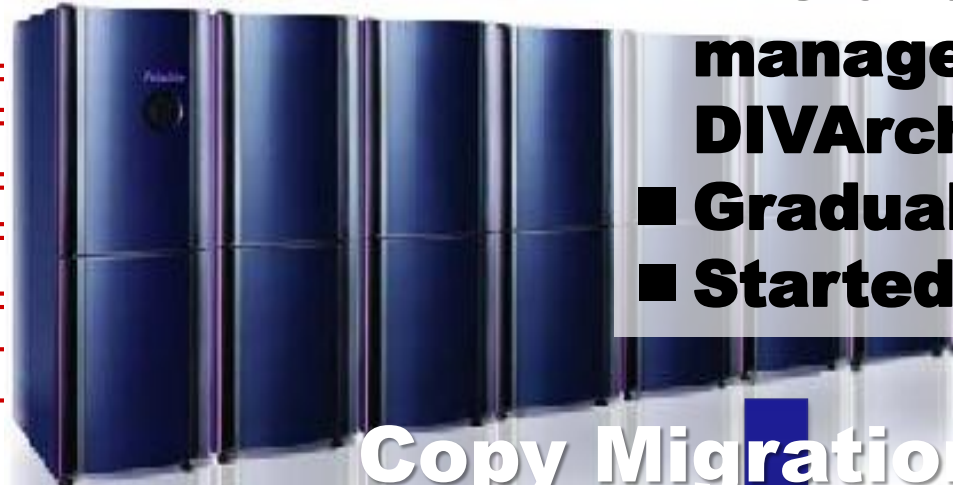
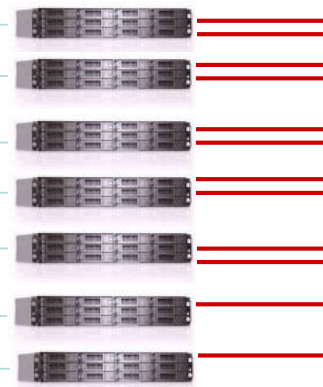


DIVArchive

PetaSite – LTO (Existing)

- LTO and ODA hybrid operation managed by Front Porch Digital DIVArchive
- Gradual migration from LTO to ODA
- Started operation from March 2014

DIVA Actor

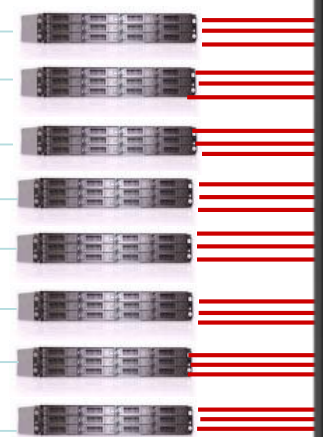


Copy Migration



PetaSite - ODA

DIVA Actor



No More Copy Migration

Offline



**NEW!**

444 Slots

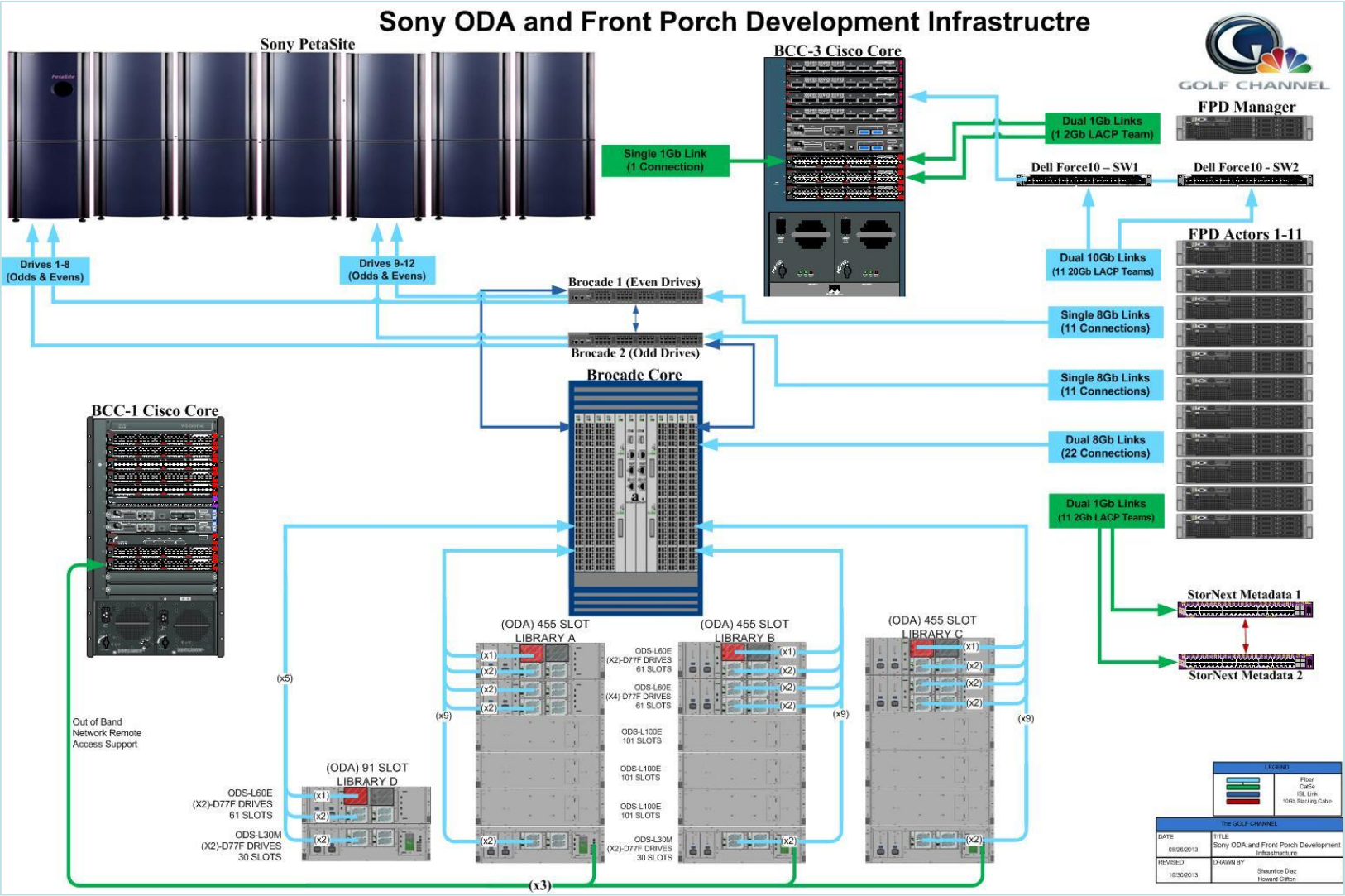
444 Slots

444 Slots

8 ODA Drives 8 ODA Drives

8 ODA Drives

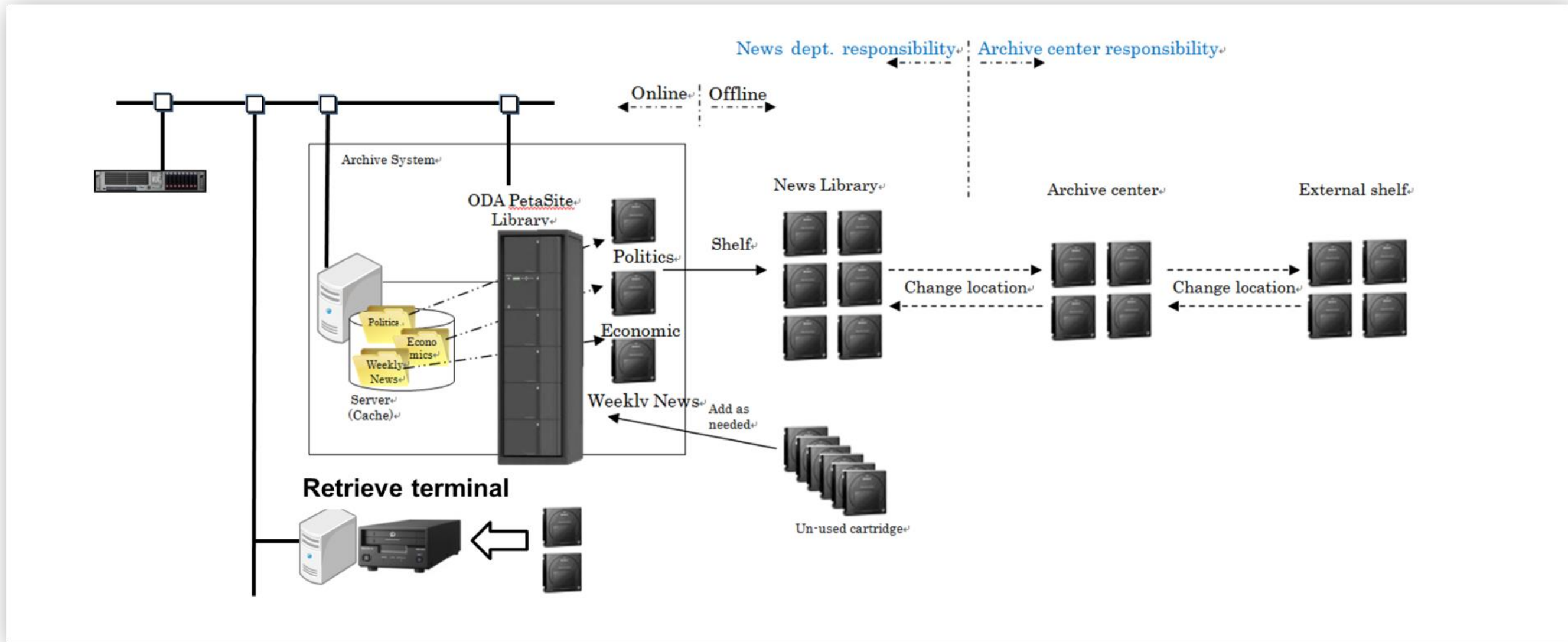
# The Golf Channel Project



# TV Tokyo - News Archive



- Custom made archive management system with ODA PetaSite library
- Hybrid Operation – Online ODA Library & Offline Media Archive





# Historical Video Asset of Vatican



**CTV (Centro Televisivo Vaticano) is the Vatican's own TV station, established by Pope John Paul II in 1983. The station's crews film the activities of the Holy Father and Holy See – the central government of the Roman Catholic Church. It produces its own programs as well as providing footage for other broadcasters around the world and keeps an extensive archive for future use.**

“Video footage of special moments in the lives of the Popes are among the Vatican's most precious assets”

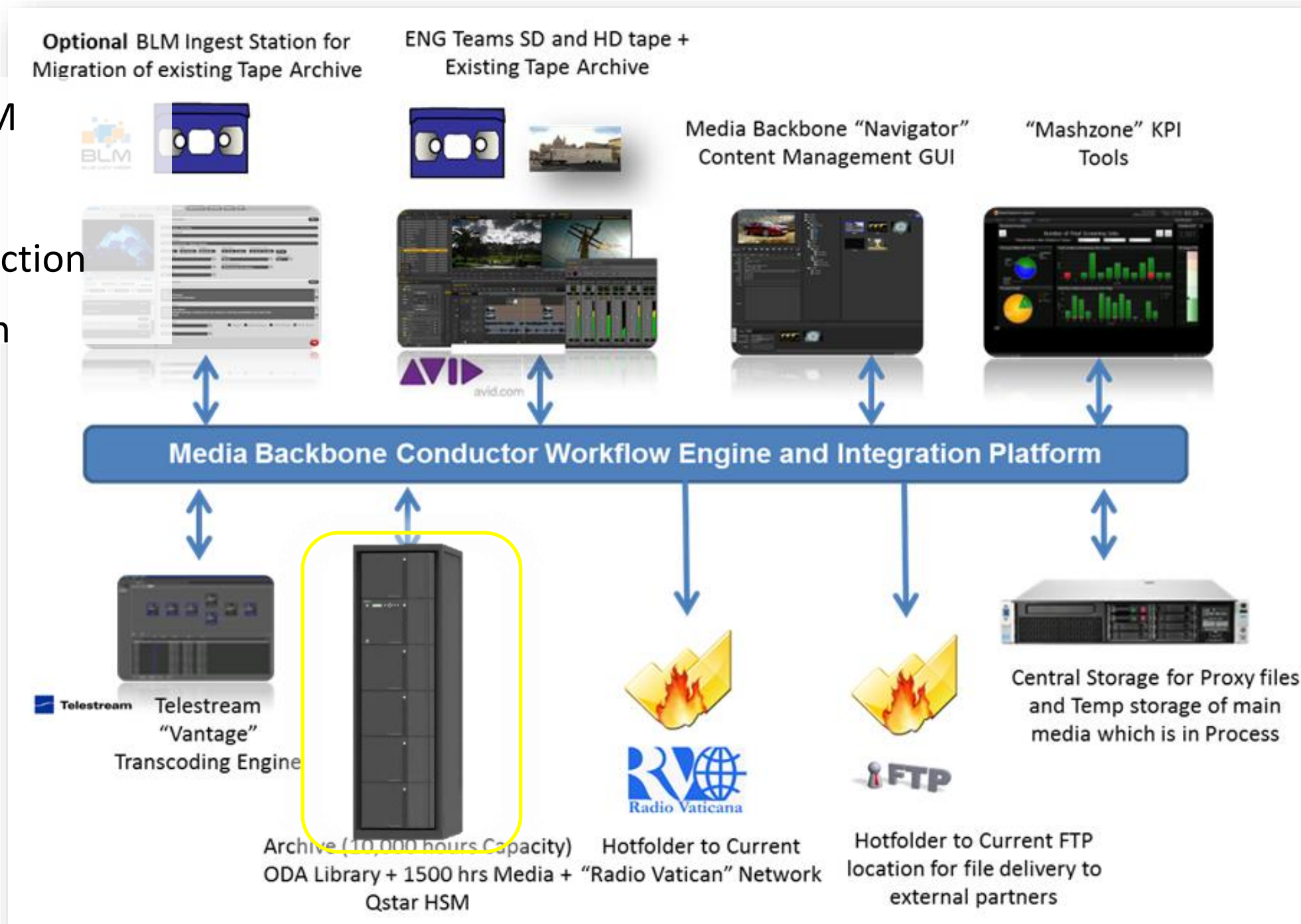
“Thanks to Sony technology these irreplaceable records will soon be safer and more easily accessible than ever”



# Vatican CTV



- PetaSite ODA Library with QSTAR HSM
- Media Backbone Conductor Solution
- Efficiently integrated with Avid production workflow and tape digitization system



# Data Archive of International Research Institute of Disaster Science



IRIDeS (founded by Tohoku University) is working on a project to collect all kinds of records, precedents, knowledge, and findings of the 2011 Tohoku Earthquake Disaster (photos, movies, media coverage, and stories of people's experience)

“How to preserve huge amount of data was a big issue. Those data would have no meaning unless it can be accessed 100 years later or even 500 years, as we never know when the next big disaster will come”

“We have decided to use Optical Disc Archive because it the most long lasting type of media with less risk of deterioration. And no need to care about special storage condition”

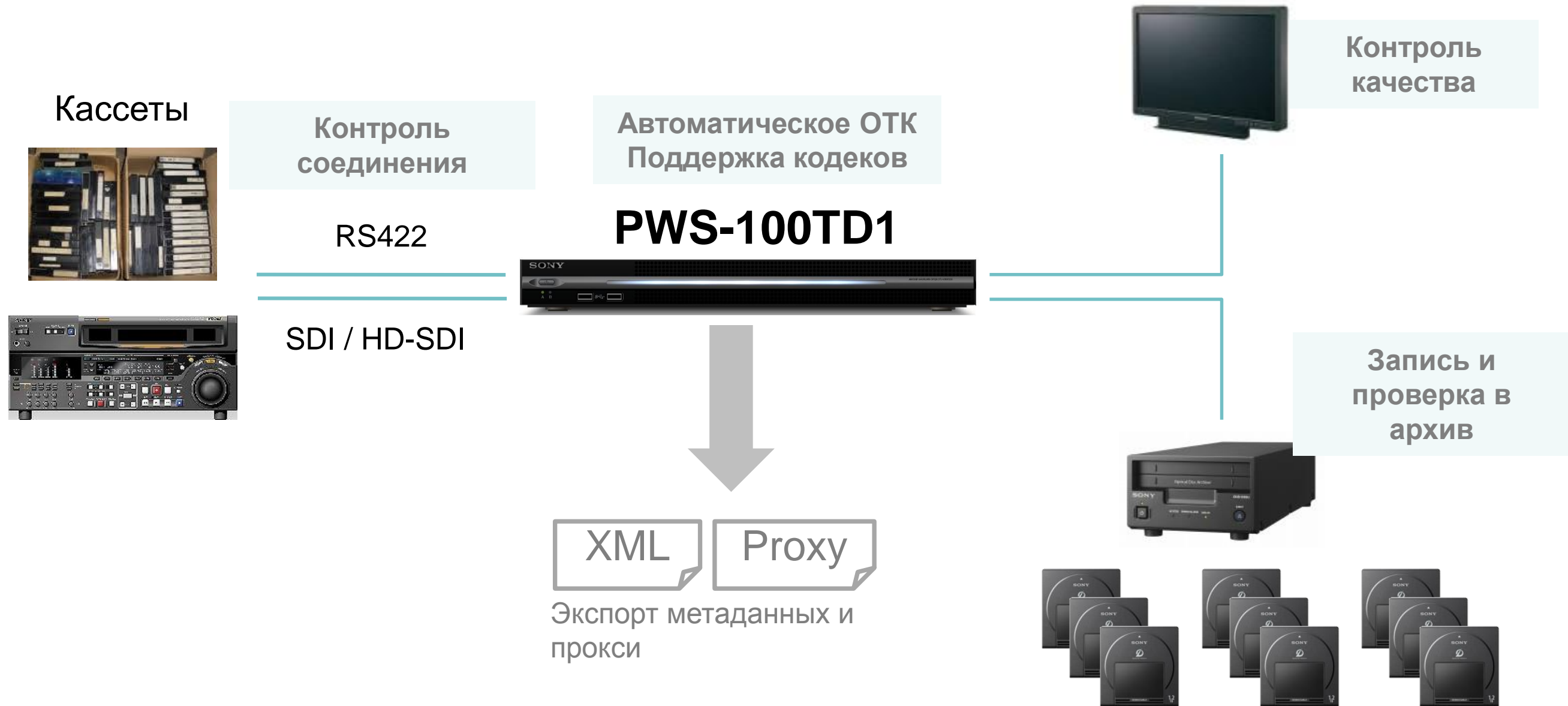




# Станция оцифровки (PWS-100TD1)



# Возможности



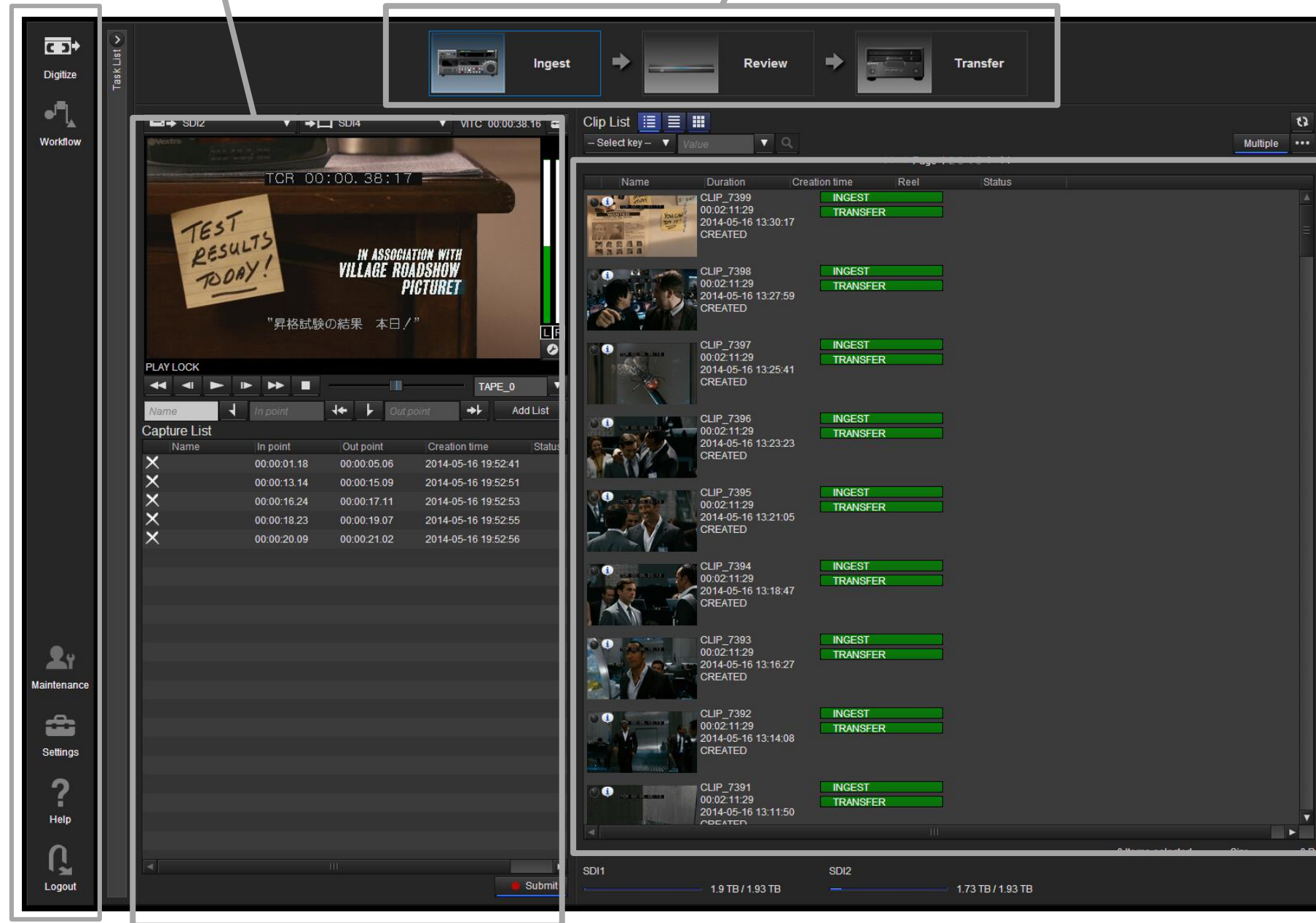
# Интерфейс

Окно загрузки (управление ВМ и т.д.)

Этапы (загрузка -> проверка -> экспорт/архив)

Основные меню

- Оцифровка
- Конфигурация
- Обслуживание
- Настройки
- Помощь
- Выход



Список клипов

# Сервер управления

