

Content Management

Content Management called “CMS” is a centralized content management system that supports surgical video, still images or other files. This extends the OR workflow to secondary usage after surgery. Managing, searching and editing are major functions and other functions such as upload to the DICOM server*¹ or document upload to CMS are also implemented in CMS.

Key Features

Managing Multiple Source Records

NUCLEUS Core records multiple sources which are transferred via the IP converter (transmitter) located in multiple ORs, and CMS manages these recordings after NUCLeUS Core transfers them to CMS. The content is automatically uploaded to CMS.

The contents are systematically organized per intervention and enriched with metadata such as the patient name, responsible doctor, etc*¹.

After the surgery, it is possible to upload stills or video to the DICOM server*¹. Besides, CMS can upload document such as a surgical report from the connected storage.

CMS stores media files on hospital-provided*² NAS*³ disks, allowing IT administrators to use their preferred infrastructure and apply the hospital's security and backup policies to the raw files. Additionally, this Content Management acts as a gateway to hospital-provided long-term storage.

Search

CMS provides powerful search engine which facilitates easy retrieval of data after surgery. Free keyword or metadata that is stored with the content can be used to search.

Playback, Editing*⁴ and Download

Convenient playback tools such as tabs, scaling and fast playback are provided. Editing capabilities include generating additional images from recordings to stills or cutting a sequence by specifying in-point and out-point. Edits are always stored as new files next to the original content.

Viewing and simple editing does not require a dedicated machine or software, moreover CMS reduces production time to create content for education and presentation purpose. Download to the local PC is possible if authorization is given.

Annotation

Annotation allows a user to mark up a still image or video with simple shapes or text. This is a useful tool for education or creation of presentations.

Data Security and Share

CMS links to the hospital's Active Directory*⁵ or Open LDAP server*⁵, the level of user authority can be configured. Only authorized personnel or group can access data archived in a secure server. Interventions can be shared with a group registered in advance, or with designated individuals.

Lifecycle Management

If NUCLeUS is used during a long time to generate recordings, inevitably the storage capacity will get full. Therefore CMS can automatically reduce the data volume by erasing the data when a preset time has passed. This leads to long term stable operation and helps to keep the storage size healthy. The duration can be configured by administrator, and reduces the overhead of IT support staff.

*¹ HIS Integration is required.

*² Please ask your local Sony dealer if you require Content Management to include its own storage.

*³ NAS stands for Network Attached Storage.

*⁴ Optional license is required for editing.

*⁵ AD Integration is required.

Specifications

System Requirements on Viewing PC

Browsers

Internet Explorer 11, Microsoft Edge, Mozilla Firefox, Google Chrome on Windows PC
Mozilla Firefox on Linux, Unix

System Requirements

Hardware

Refer to NUCLeUS Core or NUCLeUS Compute data sheet for system requirements.

Ordering Information

Product reference;
Content Management
Pro License

NU-CM30E

Pro+ License

NU-CM30F

Editing Pro License

NU-CM30G

Editing Pro+ License

NU-CM30H

* It is required instead of NU-CM30E or NU-CM30F when you use the editing function.

For more details, please contact your nearest Sony dealer.

These products are non-medical devices.

Related Products

NUCLeUS Core

NU-CR30B

NUCLeUS Compute

NU-CP30B

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