

*Ministry of Information, Kuwait*  
*NEWS Engineering Department*



## REQUEST FOR PROPOSAL

*Disaster Recovery Compact News Production System*

# **Disaster Recovery Compact News Production System**

A compact disaster recovery news production system for fast turnover ingest – editing – playout is required. The system is to be built with a single ingest/playout server, with 40TB raw storage capacity capable of file ingest and transfer/export, and client applications for media management, ingest control and editing. The system should be capable of exchanging content between existing News Production System natively on the UI level. The system is expected to be used in multiple studio locations as a contingency plan playout.

## **General Rules:**

- This is a turnkey project. Any item/work not mentioned in the tender document or BOQ but indispensable for the proper Installation/ Implementation/Performance of this project must be added to the BOQ priced and described.
- All requested software and licenses must be permanent and not subjected subscription plans.
- The provided system must be supplied with a 1-year SLA or support plan to cover the provided hardware and software.
- MOI must receive concise and well-illustrated documents explaining the workflow followed to achieve the purpose of the compact system.

## **1. Production Asset Management**

**Qty-1**

A proven and tested Production Asset Management system specifically designed and used for 24x7 broadcast operations. System must support tight integration and interfaces between Shared Storage System, Ingest, playout, non-linear editing systems The PAM should be accessible to users from a Modular interface that can run on standard internet browsers and accommodate user tasks based on user roles. The web interface should utilize a built-in HTML-5 player to play videos in the PAM.

- PAM should manage and store all media information and metadata within its database.
- It should be possible to configure all users and groups rights within the PAM

- PAM should be responsible to ensure that all users can browse and use the same copy of the available Master Clips in the Storage System without duplication.
- PAM should allow clip versioning.
- it should be possible to store Project information within the PAM database.
- The PAM should have all the services required for transcoding PAM material
- The PAM should be integrated with Ingest, NLEs and Playout
- Capable to integrate with existing NRCS natively using the same unified HTML5 UI, via a license add-on
- Capable to exchange and sync media and database with the existing news Production System natively using the same unified HTML5 UI, via a license add-on

### **1.1 Browsing and Proxy Editing License**

**Qty-2**

User license enabling users to view media, utilize, search, services, edit metadata, edit content, and log. Should include full access to all the platform apps, including the Log app.

- Proxy editing with the ability to create sequences with multiple audio and video tracks
- Simple effects using web editing like Dip to color, Cut, Dissolve and audio waveforms.
- Ability to record voiceover on the editing timeline using the web browser.
- Ability to create proxy on the fly for clips which don't have proxy files
- Build searches with complex queries and ability to use AND, OR AND NOT conditions. Ability to save searches for local user or public favorites
- Ability to save user layouts

## **2. Storage System 40TB**

**Qty-1**

The storage is to be 40 TB minimum with the possibility to be expanded in the future. The storage engine must be a software-defined storage with the flexibility of adding single, dual disk protection per workspace.

- Media Drives: One Media Packs of 10 drives 4TB each for a total storage capacity of 40 TB with 480 MB/s of bandwidth
- Scalable from 40–160 TB by combining one to four engines together
- Field-replaceable storage engine controller
- Integration with Active Directory for users and groups
- Team Administration and isolation of users as per their teams
- Ability to restrict bandwidth per client or user
- System Drives: Two solid-state system and metadata drives
- Supported Clients: Windows 10/11; Windows 2016, 2019,2022; macOS 14.x till 12.x; CentOS 7.5 till 7.9
- System management and security: Embedded System Director included
- Power supply: Redundant power supply
- 10/25 Gbps Ethernet
- SFP28 interface

## **3. Non-Linear Video Editor**

**Qty-1**

- Supported video formats: SD, HD, 2K, 4K, 8K, 16K, HDR, stereoscopic 3D, IMAX
- Trim and Smart tools, script-based editing, full Multicam toolset
- PhraseFind, ScriptSync, Symphony and NewsCutter Options
- Integrated AI for Speech to text supporting Arabic, English and other commonly used languages running locally on the workstation and not in the Cloud.
- Should have SRT and NDI streaming capabilities natively.
- Full color correction, effects, titling, and audio tools

Minimum Requirement:

- Intel Xeon W3-2435 22.5 MB cache, 8 cores, 16 threads, 3.1 GHz to 4.5 GHz Turbo
- 64GB, 2x32GB, DDR5, 4800MHz, RDIMM ECC Memory
- NVIDIA RTX A2000, 12 GB GDDR6, 4 mDP to DP adapters

- 512GB, M.2, PCIe NVMe, SSD, Class 40
- Intel X710 10GbE NIC, Dual Port, Copper or SFP+
- ProSupport and Next Business Day Onsite Service
- Windows 11 Pro, English, Dutch, French, German, Italian, Arabic

#### 4. **Video Server SDI Ingest/Playout**

**Qty-1**

- Minimum of 8 channels- 4in4 out or other configurations
- Embedded audio channels (up to 16 per video channel)
- OSD output over SDI
- Natively Supported codecs: XDCAM50 & XDCAM35, AVC-I00, DNxHD 36, DNxHD SQ, DNxHD HQ-X, DNxHR
- HQ proxy on local server storage
- File I/O: Embedded storage client, OPAAtom export to storage, Op1A import / export, CIFS & FTP push / pull.
- Control: using Playout or Ingest control software or via local Web Remote Console
- GPI, OCIP and VDCP protocols for 3rd party control applications
- Send To Playback with Play While Transfer
- Low latency Edit While Capture with (HQ) Proxy dynamic relink
- ANC data and Close Caption ingest – OPAAtom
- OS: CentOS or Ubuntu Linux customized kernel
- Built-in transfer functionality in OPAAtom/OP1A to the storage and check-in to the PAM without relying on external devices

#### 5. **Client Hardware, Network, Commissioning and Warranty**

- 5.1 It is the bidder responsibility to provide a high spec. compliant workstations configuration for client computers, keyboard, mouse and 24” FHD computer displays for the mentioned applications. **(Qty-2)**

Minimum Requirements:

- Intel® Core™ i5 14500T vPro® (24MB cache, 14 cores, 20 threads, up to 4.8 GHz)
- 16 GB: 1 x 16 GB, DDR5
- M.2 2230 256GB PCIe NVMe SSD Class 35
- Windows 11 Pro, English, Dutch, French, German, Italian, Arabic
- ProSupport and Next Business Day Onsite Service

5.2 It is the bidder responsibility to provide a high spec. compliant mobile workstations configuration for client computers, for the mentioned applications. **(Qty-2)**

Minimum Requirements:

- Intel® Core™ i5 14500T vPro® (24MB cache, 14 cores, 20 threads, up to 4.8 GHz)
- 16 GB: 1 x 16 GB, DDR5
- M.2 2230 256GB PCIe NVMe SSD Class 35
- Windows 11 Pro, English, Dutch, French, German, Italian, Arabic
- ProSupport and Next Business Day Onsite Service

5.3 It is the bidder responsibility to provide 1 RU Ethernet Patch Panel with RJ45 sockets to be installed rack mounting on desks in multiple Control Rooms for easy access of playout clients. **(Qty-4)**

5.4 It is the bidder responsibility to provide network switches and other network peripheral items (SFP+ modules) to interconnect system components into 10G network. **(Qty-1)**

5.5 On site commissioning, configuration, tests and 1 year SLA should be included in the proposal.

## 6. BILL OF QUANTITY (BOQ)

Item	Description	Qty	Unit Price KD	Total Amount KD
<b>Disaster Recovery Compact News Production System</b>				
<b>1</b>	<b>Production Asset Management</b>	<b>1</b>		
<b>1.1</b>	<b>Browsing and Proxy Editing License</b>	<b>2</b>		
<b>2</b>	<b>Storage System 40TB</b>	<b>1</b>		
<b>3</b>	<b>Non-Linear Video Editor (Hardware and Software)</b>	<b>1</b>		
<b>4</b>	<b>Video Server SDI Ingest/Playout</b>	<b>1</b>		
<b>5.1</b>	<b>Client computers with 24" displays</b>	<b>2</b>		
<b>5.2</b>	<b>Client Laptops</b>	<b>2</b>		
<b>5.3</b>	<b>1 RU Ethernet Patch Panel</b>	<b>4</b>		
<b>5.4</b>	<b>Network Switches &amp; peripheral (SFP)</b>	<b>1</b>		
<b>5.5</b>	<b>On site commissioning, configuration, tests with 1 year SLA</b>	<b>1</b>		
	<b>Grand Total - KD</b>			