



State Of Kuwait  
وزارة الإعلام Ministry Of Information  
إدارة هندسة الاستديوهات التلفزيونية  
مراقبة غرفة التحكم الرئيسية  
قسم متابعة البث

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## ممارسة توريد وتركيب جهاز طوارئ Emergency Auto Server

سلطان

سلطان الهدف من الممارسة :

هو تطوير النظام الذي يعمل حالياً مع توريد وتركيب أجهزة طوارئ وقطع غيار لازمة  
سلطان للأجهزة في مراقبة غرفة التحكم الرئيسية .

## **A. Introduction**

Supply Spare parts and Support for the current system in MCR department

### **Scope of work :**

- The target and scope from this RFQ is to provide a spare parts to the current system in the MCR department on top of the support and upgrade for the current Magnum and VLPRO system as per the current configuration mentioned in the RFQ.
- The spare parts are : Advanced Cards , Modules , Interfaces , Fans , SPGs, Converters , Adapters , Intercom Modules and Panels , IRDs with the listed options and configurations , PSUs ( power supply ).

### **In addition to the above :**

MOI wants to upgrade the current Volicon system with the latest upgraded system available in the market to provide a compliance recording system as per the provided setup and configuration with:

View media in Live or archived, navigation, storyboard, clips creation, transcoding to any format, and export Configuration and Automatic import and/or automatic EPG extraction and display of Electronic Program Guide/AsRun Log file, searchable, play a program directly.

It includes onetime integration. Continuous video/audio quality checks. Real time alerts: loss of audio or video signal, frozen image, blue screen, low audio, missing SCTE/CC/teletext/loudness, etc. Sending notification via eMail, SMS, SNMP, on screen. Integrated into (Multiviewer).

### **Training:**

- For this system, training must be provided by the manufacturer itself online or attend and a representative from the local to attend and provide support and training with a video demonstration of how to operate the system for reference in time of need .
- Provide at least 3 copies of operating manuals ( software & hardware)/ Soft copy and hard copy.

## **B. General conditions**

- All equipment should be Guaranteed for two years.
- All equipment should be delivered within two months after the contract signing.
- BOQ prices list for all items should be submitted.
  - The offered prices should be itemized prices for each item according to specification.
  - Providing all spare parts and equipment manuals ( software & hardware) and manuals for Magnum and VLPRO. /Soft copy and hard copy.
  - Warranty for all devices, equipment and software, and the warranty does not start until after the completion of operation, examination, training and final receipt.
  - Any replacement (device/parts/software) and everything related to the system during the warranty period shall be free of charge and without any cost to the Ministry. Case The bidder must take immediate measures to make any necessary modifications to correct the (defect / error) through changes in the design without cost or incurring by the Ministry, and that there is a guarantee on these parts, hardware or software from the date of installation.
  - System schematic diagram must be provided showing layout and over all system connections.

## **1. MAGNUM-ANNUAL-LICENSE**

3 Years Annual Renewal license for MAGNUM software as documented within this quotation. This renewal license includes access to minor version software updates (enabling new features, bug fixes and performance enhancements) for purchased MAGNUM modules that become available during the renewal period. It also includes 24/7 phone support from trained customer service representatives."

"For MAGNUM System with Server ID#:

""4829-12f1-a9be-f590-36a9-a048-3c1e-9880-3160-c6c2  
4b27-5464-c33c-271f-5b3c-75d4-4398-90c1-d2a5-b318""

"MAGNUM System Currently includes the following modules:

1x MAGNUM-ROUTER

1x MAGNUM-MULTIVIEWER

1x MAGNUM-ROUTER-R

1x MAGNUM-MULTIVIEWER-R

1x MAGNUM-ISP

1x MAGNUM-ISP-R"

## **2. VLPRO-Ser/Sup"3 year VistaLINK™ PRO/PLUS license, service and support per client"**

## **3. Compliance System software and hardware as per the specs and BOQ provided:**

**3.1.** Any input signal: SD/HD/720p/1080p/1080i/UHD, DVB-T2/C/S2, TS/IP, SMPTE2110, SMPTE2022, HDMI, ASI, analogue, JHLS, AQAM,, MPEG\_DASH, 8VSB, RTMP, AM, FM, MPGE2/H264/H265, etc

**3.2.** Any resolution in any bitrate for individual channels

**3.3.** Smart Recorder: 24x7 software defined systems

**3.4.** Recording of video and (multiple) audio as well as radio

**3.5.** Recording of CC or DVB-subtitles

**3.6.** SCTE35 and SCTE104 compatible

**3.7.** Scalable, expandable, future proof systems

- 3.8.** User Interface in Arabic
- 3.9.** User Interface is intuitive and easy to navigate
- 3.10.** Recorded files are in standard, non-proprietary formats, and can be played with a wide-range of players such as VLC and easy export and sharing
- 3.11.** Web-based dashboard
- 3.12.** Accessibility via any browser such as Chrome, Edge, Firefox, Internet Explorer, Safari and OS-independent, ie. Will work on Windows, Mac OS
- 3.13.** Accessibility from any mobile device, iOS or Android
- 3.14.** Flawless Fast Forward/Rewind up to 10x
- 3.15.** Frame by frame play
- 3.16.** Mosaic/Multiviewer to display loss of video/audio/anomalies
- 3.17.** Smart Logic to monitor and analyze loss of video/audio/anomalies
- 3.18.** Comprehensive logs, graphs, emails
- 3.19.** Penalty boxes
- 3.20.** Active Directory to authorize users
- 3.21.** Without graphics training or knowledge easy to make clips, add logos, names, effects (blur) and export recorded material for reporting, legal proof.
- 3.22.** Storyboard with Thumbnails overview
- 3.23.** Capex/Opex business models
- 3.24.** AI-driven search
- 3.25.** Speech-to-text in Arabic
- 3.26.** Search by keywords in Arabic
- 3.27.** Agnostic to and compatible with a wide range of external storage systems
- 3.28.** Number of HW channels to be provided is 16 able to be expanded
- 3.29.** Recording 90 days with the best maximum quality minimum @ 1.5Mbps
- 3.30.** Type of all signals is HD baseband
- 3.31.** AI should be provided feature
- 3.32.** Automatic import and/or automatic EPG extraction and display of Electronic Program Guide/AsRun Log file, searchable, play a program directly. It includes one time integration.

**3.33.** Continuous video/audio quality checks. Real time alerts: loss of audio or video signal, frozen image, blue screen, low audio, missing SCTE/CC/teletext/loudness, etc. Sending notification via eMail, SMS, SNMP, on screen.

**3.34.** 5 concurrent users

**3.35.** Training and installation should be provided

- Training for 10 operators.
- and provide support and training with a video demonstration of how to operate the system.
- Provide at least 3 copies of operating manuals ( software & hardware). Soft copy and hard copy.

**3.36.** All required HW/SW should be provided

**4.** Advanced monitoring, up to 16 Inputs 3G/HD/SD auto-sensing, 2 DVI/HD-SDI multi-viewer Outputs with resolution support up to 1920x1200, model 7867VIPM16-DUO-3G+3RU , **Qty = 1**

**5.** Additional PSU EQX-PS , **Qty = 2**

**6.** EQX-XPTG-288X288-FAN , **Qty = 4**

**7.** Master SPG (Master Clock System Includes 6 Bi-Level/Tri-Level Sync Outputs, 5/10 mhz Output, 48 Khz Word Clock Output, 2 LTC Outputs, Loop Thru Genlock, 5/10 mhz Input, LTC Input and 1 Power Supply , 5601MSC, **Qty = 1**

**8.** 2RU Automatic Change Over System, 2RU Automatic Changeover System complete with 2 power supplies, 2 power cords and 2 DB15 cables, 5601ACO2 **Qty =1**

**9.** 3G/HDTV Up-converter : 7812UC-3G+3RU , **Qty = 2**

**10.** 3G/HDTV Down-Converter 7812HDC-3G+3RU , **Qty = 2**

**11.** 7821AE8-B3G+3RU / 3G/HD/SD-SDI balanced audio embedder , **Qty=1**

**12.** 7821AD8-B3G+3RU / 3G/HD/SD-SDI balanced audio de-embedder , **Qty=1**

**13.** 3G/HD/SD with 4 AES audio fiber transmitters, 1310nm FP laser, VistaLINK , 7707VAT13-3G+3RU+SC , **Qty = 2**

**14.** 3G/HD/SD with 4 AES audio fiber receivers, VistaLINK monitoring , 7707VAR-3G+3RU+SC , **Qty = 2**

- 15.** Additional Power Supply for EMX6-FR , **Qty = 4**
- 16.** Additional Power Supply for 7800FR, **Qty = 10**
- 17.** Additional Power supply for 500FR , **Qty = 5**
- 18.** Additional Power Supply for XRF6 , **Qty = 1**
- 19.** Router control panel X-NCP2 , **Qty = 1**
- 20.** Intelligent Control Panel, 48 BPS style - 2RU unit, with three rows of 16 buttons featuring LCD in key cap for instant updating of source or ident labels. Can be completely configured for any use, XY, BPS Multi-mode, Breakaways, panel supports QLINK for connection to Legacy routers and Ethernet for connection to MAGNUM-Router, CP-2048E , **Qty = 1**
- 21.** Remote display panel, XY, keypad, panel supports QLINK for connection to Legacy routers and Ethernet for connection to MAGNUM-Router , CP-6400E **Qty = 1**
- 22.** 32 Position Key Panel with multidirectional lever keys for talk/listen and level control. Menus and programming keypad, extended DSP Functions, 2 full HD colour displays, 2 channel OMNEO via RJ45 and fiber connection and standard analogue RTS matrix connection. Additional rear end Audio connections incl. GPIOs. Headset connector A5F. Optional fiber SFP modules and headset plug-in inlay A4F, A4M and A5M available. 2 RU 19". Support EKP-4016 and LCP-16CLD. Support for RVON. PSU mounting bracket included. Uses OPTIONAL MCP-90X microphones.  
KP-5032 A5F , **Qty = 2**
- 23. Integrated Receiver Decoder with the following options, Qty = 2**
- 23.1.** • MPEG-2 SD and HD, MPEG-4 AVC SD and HD 4:2:0 decoding
  - 23.2.** • 1x ASI input transport stream input
  - 23.3.** • Frame Sync input
  - 23.4.** • BISS, BISS 2, Common Interface & MediaKind Director descrambling
  - 23.5.** • MediaKind RAS descrambling
  - 23.6.** • SD & HD Video output interfaces
  - 23.7.** • Single service filtering
  - 23.8.** • 2x Stereo pairs of physical audio connections
  - 23.9.** • Dolby Digital® decoding and pass-through

- 23.10.** • Alarm relay and SCTE 35 controlled contact closures for ad-insertion signaling.
- 23.11.** • 4x L-band inputs
- 23.12.** • DVB-S QPSK demodulation included
- 23.13.** • DVB-S2 QPSK, 8PSK demodulation included
- 23.14.** • DVB-S and DVB-S2 low symbol rate capability included
- 23.15.** • Multiple (x3) PL scrambling/Gold Code search • 4x L-band inputs
- 23.16.** • DVB-S QPSK demodulation
- 23.17.** • DVB-S2 QPSK, 8PSK
- 23.18.** • DVB-S2X QPSK, 8PSK
- 23.19.** Low symbol rate capability
- 23.20.** Rolloffs down to 5%
- 23.21.** Multiple (x3) PL scrambling/Gold Code search
- 23.22.** DVB-S2/S2X 16APSK, 32APSK demodulation with additional Value Pack.
- 23.23.** Higher Order Modulation Value Packs.
- 23.24.** Adds DVB-S2 16APSK and 32APSK capability to DVB-S2X satellite input option
- 23.25.** Adds DVB-S2X 16APSK and 32APSK capability to DVB-S2X satellite input option
- 23.26.** HEVC 1080p, MPEG-2/MPEG-4 4:2:2 Decoding Hardware Card
- 23.27.** MPEG-4 AVC and MPEG-2 SD & HD 4:2:2 Contribution Decoding Software License.
- 23.28.** Enables MPEG-4 AVC SD & HD 4:2:2 decoding
- 23.29.** Enables MPEG-2 SD & HD 4:2:2 decoding
- 23.30.** Dormant format conversion hardware, with below software license
- 23.31.** Grade 1 quality Down-conversion of HD to SD
- 23.32.** Capability to Down-convert 1080p 50/60 to 1080i, 720p or SD
- 23.33.** Provides broadcast quality simultaneous down-conversion allowing one HD transmission to address both HD and SD distribution needs Up-conversion of SD to HD resolution (4:2:0 modes only)
- 23.34.** Non-simultaneous up-conversion to 720p or 1080i resolution



**23.35.** Cross-conversion of HD video from 720p to 1080i or from 1080i to 720p (4:2:0 modes only)

**24.1** Series Audio monitoring unit, 1RU, 2 x HD/SDI, 2 x stereo analogue, 4 x AES inputs, dual 26 segment bargraphs, high quality internal stereo loudspeakers, external PSU , AMU1-CHD+ , **Qty = 2**

**24.1.** 1 RU Agile Audio Monitor providing seven different modes of operation, tailored for both engineer and operator use.

**24.2.** 2 x High quality front panel displays, 2 x 3G/HD/SD-SDI input , 1x AES 3id input, 1 x Balanced Audio Input.

**24.3.** 1 x reclocked 3G/HD/SD- SDI output and 1 balanced.

**25.** Business Laptop 10thgen Core I7-10510U 14" FHD Anti-Glare Display 32GB 1TB NVMe SSD Intel UHD Graphics Backlit English, arabic Keyboard WIN10 PRO Black, OR Similar **Qty = 2**

- Operating System Windows 10 Pro
- Graphics co-processor INTEL
- Hardware interface USB Type C, USB 3.1 Type C, Ethernet, HDMI, Thunderbolt, Secure Digital Card
- Screen size 14 Inches
- Processor: 10th Gen Intel Core i7-10510U Processor (1.60GHz, up to 4.20GHz with Turbo Boost, 4 cores, 6MB Cache). Intel UHD 620 Integrated Graphics
- 32 GB DDR4 SODIMM RAM; 802.11ac Wifi, Bluetooth 5.0, Ethernet LAN (RJ-45), Webcam, Backlit Keyboard
- 14" FHD Anti Glare Display; 65W Power Supply Black Color
- 1TB PCIe NVMe SSD; 2 USB 3.1 Gen1, 1 HDMI, USB 3.1 Type-C Gen2, SD Reader, Headphone/Microphone Combo Jack. Windows 10 Pro-64,
- 1 Year Manufacturer Warranty

## 26.TV Diagonal Size 75" Qty = 1

- Type Edge LED BLU
- Resolution 3840\*2160 (4K UHD)
- Pixel Pitch(mm) 0.42975 x 0.42975
- Active Display Area(mm) 1650.24 (H) x 928.26 (V)
- Brightness(Typ.) 500 nit
- Contrast Ratio 4000:1
- Viewing Angle(H/V) 178/178
- Response Time(G-to-G) 8ms(Typ.)
- Display Colors 16.7M(True Display) 1.07B(Ditherd 10bit)
- Color Gamut 92% (DCI-P3, CIE 1976)
- Operation Hour 24/7
- Haze 44%
- Display Dynamic C/R
- MEGA H-Scanning Frequency 30 ~ 81kHz V-Scanning Frequency 48 ~ 75HZ
- Maximum Pixel Frequency 594MHz
- Sound Speaker Type Built in Speaker(10W + 10W)
- Connectivity Input : RGB DVI-D, Display Port 1.2 (1) Video HDMI 2.0 (2) HDCP2.2
- Audio : Stereo mini Jack, DVI, HDMI
- USB USB 2.0 x 2
- Output RGB HDMI 2.0 (Loop-out)
- Audio Stereo mini Jack External Control RS232C(in/out) thru stereo jack, RJ45
- Power Type Internal Power Supply AC 100 - 240 V~ (+/- 10 %), 50/60 Hz
- Power Consumption
- Max[W/h] 231 Typical[W/h] 178
- Rating[W/h] 210 BTU(Max) 787.7

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