



AfricaConnect3 – Cluster 2

Request for Quotation for WACREN

RFQ for the provision of Network Operating Centre
Equipment and Software

Date of Issue: **NOV 2020**

Dissemination Level: Public

Owner: GÉANT & WACREN

Version: 1.00

Reference Number: **WACREN NOC EQUIPMENT RFP**

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1 Definitions

Terms	Definitions
Attachment	A document made available to Bidders in relation to this procurement exercise
Bidder	A Supplier submitting a tender for the supply of the requested Products and / or Services.
Commencement Date	The date the Services start to be delivered.
GÉANT	<p>The contracting party, GÉANT, who is inviting Suppliers to participate in this procurement process.</p> <p>GÉANT Vereniging is a not-for-profit organisation, owned by its core membership of 41 NRENs. More information on the GÉANT Project and GÉANT Network can be found at www.geant.org.</p>
Service(s)	The services as described in this document, which the supplier has agreed to offer under the standard contractual terms supporting the supply of goods and / or services and which GÉANT has instructed the Supplier to carry out in an order.
Solution	A Supplier's response to GÉANT's RFQ in the form of an offer capable of acceptance made by the Supplier as a proposal to meet the requirements set out in this document .
Statement of Requirements	A statement issued by GÉANT detailing its Service requirement issued in accordance with the RFQ.
Supplier	An Economic Operator and could be a registered company, charitable Organization, Voluntary Community and Social Enterprise, Special Purpose Vehicle or other form of entity, who is capable to offers the requested Services.
Tender	The bid(s) prepared and submitted by Bidder in response to this RFQ).

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2 Foreword

GÉANT reserve the rights:

- to award one or more or no contracts whatsoever as a result of this procurement process;
- to add components to the scope of the required services or remove components from the scope of the required Services in any contract which may be awarded;
- to vary the bid timetable (including the content of the phases) as it considers appropriate at any time. Any material changes will be notified to the person each Tenderer has nominated for contact purposes;
- to make whatever changes it sees fit to the structure or content of the procurement process, within the bounds of the relevant legislation;
- to withdraw this RFP at any time or to re-invite Responses on the same or any alternative basis;
- to seek clarification in relation to the information submitted by the Bidders. The Bidders must respond promptly in writing; and
- to select a Response which is incomplete or not formatted in accordance with this RFP or not provided in the media required by this RFP regardless of whether other complete or more complete Responses or Responses formatted in accordance with this RFP were submitted.

Any expenditure, costs, liability, work or effort undertaken or incurred in proceeding and/or participating in this procurement ("Tenderer Costs") is a matter solely for the commercial judgement of Tenderers, and GÉANT will not be liable to reimburse or compensate the Tenderers in respect of any of the Tenderer Costs.

3 Introduction

3.1 Contact Person

The contact person for this RFQ is:

Alain Aina (WACREN) – for all technical queries

CTO WACREN

T: +228 90 04 24 74

E: alain.aina@wacren.net

Phil Matthews - GÉANT - for all administrative queries

Procurement Specialist

E: phil.matthews@geant.org

3.2 About WACREN

WACREN is the West and Central African Research and Education Network. Incubation of the regional network started at AfNOG 2006 and at the Regional Workshop on Research and Education Networks organised by the Association of African Universities (AAU) in Accra in November 2006. The need to build organizational and technical capacity within constituent NREN countries was identified as a requirement for a viable network.

A regional consultative meeting held in November 2009 as a pre-event to the Open Access Conference 2009. The AAU was given the mandate to identify a Task Team to coordinate activities of working groups to produce documents for the establishment of the RREN .

Following the meeting of representatives of 11 countries in West Africa and Central Africa (Benin, Burkina Faso, Cameroon, Cote d'Ivoire, Gabon, Ghana, Mali, Niger, Nigeria, Senegal, Togo) in initiative of Research and Education Networking Unit (RENU) of the

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Association of African Universities (AAU), it was taken to the establishment of the first Board of Directors of WACREN, composed of nine (9) members and presided by Professor Tiemoman KONE.

3.3 About GÉANT

GÉANT plans, builds and operates advanced networks for research and education, including the pan-European network known as GÉANT. GÉANT has been the implementing partner in AfricaConnect to date since 2011. GÉANT (as the coordinator of all Clusters) will provide support with the contracts directly tendered and concluded between providers and WACREN, always in compliance with EU procurement principles and formal regulations (where applicable).

3.4 Background

The objective of WACREN is the promotion and establishment of interconnections between national research and education networks in West and Central Africa to form a regional research and education network, the interconnection of this network with other regional and continental networks, and the provision of services aiming at fostering collaboration between research and education institutions in the region as well as between them and peer institutions at continental and international levels.

As part of the development of its infrastructure and roll out of new applications and services to the community it serves, WACREN is upgrading its NOC infrastructure. This means WACREN requires a range of equipment suitable for upgrading its NOC equipment, including devices and software related to network security, servers, desktops and control room video systems, as well as Uninterruptible Power Supply (UPS) to the Network Operation Center hosted in the WACREN HQ in Accra, Ghana

3.5 Objective of this Procurement

The objective for this call for competition is to obtain technical and commercial responses from potential bidders that describe the proposed solution, including the licencing model, methodology and timeline of the installation.

4 Statement of Requirements

4.1 Procurement plan

Below indicated procurement plan, provides an overview of the key stages and dates in this procurement. GÉANT reserves the right to change these dates as necessary, although it will seek to minimise any changes.

- | | |
|---|---|
| 1) RFQ issued: | 6 th November 2020 |
| 2) Deadline for clarification Questions: | 18 th November 2020 |
| 3) Deadline for Quotation responses: | 20 th November 2020 |
| 4) Contract evaluation / intent to award: | 4 th December 2020 |
| 5) Commencement Date: | Linked to delivery lead time from Bidder response |

4.2 Conditions of Contract

For the supply of the requested Services, raised under an approved Purchase Order for values below the EC thresholds, the standard contractual terms supporting the supply of goods and / or services of GÉANT Association are applicable. These terms can be downloaded from: https://www.geant.org/About/Joining_GEANT/Pages/Terms-and-Conditions.aspx

Applicable taxes are extra and must be itemized separately in your proposal and all and any additional costs must be detailed in your quotation.

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4.3 Specification

4.3.1 Detailed background

WACREN is upgrading its existing cloud infrastructure. This consists of adding servers (and storage capacity) to the existing infrastructure that is currently hosted in a data center in Lagos.

4.3.2 Scope

Purchase of hardware, S/W licencing, 24x7 break fix support and maintenance

4.3.3 Specifications

The technical specifications are as stated below:

Lots	Designation	Specifications	Quantity required	Price (Euros)
Lot1	Firewall	<p>NGFW Firewall</p> <p>Hardware Specifications: minimum Interfaces and ports</p> <ul style="list-style-type: none"> • 2x 10 GE SFP+ slots, • 10x GE RJ45 ports • 8x GE SFP slots <p>Memory and Storage</p> <ul style="list-style-type: none"> • System memory (RAM) 16 GB • 2x 240GB on board SSD storage <p>System Performance and capacity</p> <ul style="list-style-type: none"> • IPS Throughput 7.9 Gbps • NGFW Throughput 4.5 Gbps • Threat Protection Throughput 4.7 Gbps • Firewall Latency 2 μs • Firewall Throughput 33 Mpps • Firewall Policies 10,000 • IPsec VPN Throughput (512 byte) 20 Gbps • Gateway-to-Gateway IPsec VPN Tunnels 2,000 • Client-to-Gateway IPsec VPN Tunnels 50,000 • SSL-VPN Throughput 5 Gbps • Concurrent SSL-VPN Users 10,000 • SSL Inspection Throughput 5.7 Gbps • Application Control Throughput 14 Gbps • CAPWAP Throughput 18 Gbps • High Availability Configurations Active-Active, Active-Passive, Clustering • Licences for Application Security, Intrusion Detection and Prevention, Enhanced Web Filtering, Antivirus and Advanced Threat Prevention 	1	
Lot 2	Server	<p>Rackmount servers</p> <p>Hardware specifications</p> <ul style="list-style-type: none"> • Server class board with • 2 CPU at minimum 3.0 GHz (minimum 6 cores) • Memory: 64 GB DDR4 DIMMs • Storage: 2 x 1TB SSD • RAID : Supports RAID 0, 1, 10, 5, 50, 6, and 60 • Supports RAID state migration, RAID configuration memory, self-diagnosis, and remote web setting • Two (2) 1GE LAN RJ45 • Two (2) 10GE LAN with SFPs • Redundant: Power supply, FANs • Supported OS 	2	

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		CentOS Citrix XenServer Microsoft Windows Server Red Hat Enterprise Linux SUSE Linux Enterprise Server VMware ESXi		
	Desktops	Apple iMac 21.5-Inch 2019 <ul style="list-style-type: none"> • CPU at minimum 3,2 GHz (Intel Core i7) • Memory 16 GB DDR4 • 1TB SSD Storage 	2	
	Uninterruptible Power Supply (UPS)	Uninterruptible power supply <ul style="list-style-type: none"> • 5000VA/4000W • Phase : Single Phase • UPS Type : Line Interactive • Input : Input Voltage Range 160-275V AC • Nominal Input Voltage : 220V/230V/240V/110V/120V AC • Input Frequency : 45-65Hz • Output Nominal Output Voltage : 220V/230V/240V/110V/120V AC • Output Voltage Range (Normal Mode) : 220V/230V/240V/110V/120V AC±10% • Output Voltage Range (Battery Mode) : 220V/230V/240V/110V/120V AC±10% (Modified Sine Wave) Interfaces: RJ-45 10/100/1000Base-T, RJ-45 Serial, Smart-Slot, USB	2	
	KVM Switch	Rackmount Console with integrated CAT6 KVM in only 1 rackmount unit. <ul style="list-style-type: none"> • 19" Full HD LED LCD with support for resolutions up to 1080p • Supports HDMI, DisplayPort, DVI, VGA-USB & VGA-PS/2 server interface. • Cascade switches up to 8 levels, 128 servers. • Accessories for 8 servers 	1	
Lot 3	Control room video System	Video-Wall display solution: 3 Monitors with Controller and Cabling scalable to 6 monitors Monitor hardware specifications <ul style="list-style-type: none"> • Panel Type: D-LED DID • Diagonal Size: 55" • Resolution: Full HD 1920 x 1080 • HDMI In: 2 • HDMI out: 2 • DP In: 1 • DVI In: 1 • USB 2 • Composite In: 1 • RGB In: D-Sub • IR In: Yes • IR Out: Yes • Audio In: Stereo Mini Jack, RGB/DVI/HDMI • Audio Out: Stereo Mini Jack • HDCP: Yes • Ethernet Ports: 1 RJ45 10/100/1000 Base-T 	1	

Bidders must state the software licencing requirements (and ongoing costs) associated with the offered Software packages in Lots 1 and 2

Response:

Bidders **must** provide the user of the software with an appropriate 3rd party IPR indemnity.

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Response – confirmation of acceptance of Clause 10 of the terms and conditions @ https://www.geant.org/About/Joining_GÉANT/Pages/Terms-and-Conditions.aspx [YES/ NO]

Bidders must clearly indicate which Lots they are submitting a response for:

Lot number	Bidding [Yes / No] and comments if required
Lot 1	
Lot 2	
Lot 3	

Bidders **must** state the lead time for the equipment and for installation

Response:

Leadtime for delivery from point of order

Implementation milestones:

Bidders **must** clearly state all applicable duties and taxes associated with the offer being made.

Response:

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Bidders must describe their support arrangements, setting out where support for the installed equipment will be provided from, the number of engineers available, contact details for 1st line trouble ticketing and the committed response and fix times that are offered as part of the pricing set out above;

Response:

4.3.4 Pricing Schedule

Bidders should set out their pricing in the yellow column (above) to the right of the technical specification for each of the specific aspects please.

4.4 Details about the Bidder

Representation	Answer
Full name of Bidder primary contact	[text]
Position/Acting in the capacity of:	[text]
VAT-number, if applicable:	[number]
National identification number, if applicable.	[text]
D.U.N.S. number, if applicable:	[number]
Postal address Line 1:	[text]
Postal address Line 2:	[text]
Postal address Town/City:	[text]
Postal address Region:	[text]
Postal address Postcode:	[text]
Postal address Country:	[text]
Telephone (including dialling code):	[number]
Mobile (including dialling code):	[number]
Email:	[number]
Internet address (web address) (if applicable):	[text]
Name of parent company (if applicable):	[text]
Name of ultimate parent company (if applicable):	[text]
Bidder Legal Status:	<input type="checkbox"/> Sole Trader <input type="checkbox"/> Private Limited Company <input type="checkbox"/> Public Limited Company <input type="checkbox"/> Partnership <input type="checkbox"/> Other