



TO: All Bidders

DATE: 16 June 2025

FROM: Sally Alvarez de Schreiner
Chief, Procurement Services Section

REF.: RFP No. 2025-0088/MOGAPI *GH*

TEL. NO.: +43 1 26030 6350

EMAIL: procurement@ctbto.org

SUBJECT: **Clarifications No. 2 and revised Technical Specification
ITB 2025-0088/MOGAPI - Supply, delivery, installation and testing for CTBTO Floor Access
Switches Replacement**

Dear Bidders,

In reference to Invitation to Bid (ITB) No. 2025-0088/MOGAPI concerning “Supply, delivery, installation and testing for CTBTO Floor Access Switches Replacement”:

- Please find attached the **Clarifications No. 2** to questions raised by interested bidders.
- The **Technical Specification-Annex B** document part of the ITB is hereby replaced with the attached amended version of the document (Rev. 16 Jun 2025); revisions are highlighted in yellow for ease of reference.

Please take all of the above and attached documentation into account in the preparation and submission of your bid. In case you have already submitted your bid, you are kindly requested to submit a revised bid as per the new amended Technical Specification, attached hereto.

We are looking forward to receiving your bid prior to the deadline for the submission of bids on 23 June 2025, 17:00 hours, Vienna (Austria) local time.

Sincerely,
































































SAS
Sally Alvarez de Schreiner
Chief, Procurement Services Section

Attachment:

1. *Questions and Answers – Clarifications No. 2*
2. *Technical Specification, Rev. 16.06.2025*

Clarifications No. 2 – ITB 2025-0088/MOGAPI

“Supply, delivery, installation and testing for CTBTO Floor Access Switches Replacement”

Item#	QUESTION	ANSWER																												
Ref. 4.1 Catalyst 9400 Series 7 Slot Hardware Specification for one Switch, please provide clarification to the following three questions:																														
1	<div>Which Supervisor Bundle would you require?</div> <div><div>Supervisor Bundle Select</div><table><thead><tr><th>SKU</th><th>Qty</th><th>Estimated Lead Time ⓘ</th><th>Unit List Price (USD)</th></tr></thead><tbody><tr><td><div><div><input type="radio"/></div><div>C9400-SUP-1-B  </div><div>Catalyst 9400 Series SUP1 BUNDLE PID ONLY - NOT AN ACTUAL HW</div></div></td><td><div>Qty</div></td><td>21 days</td><td>0.00</td></tr><tr><td><div><div><input type="radio"/></div><div>C9400-SUP-1XL-Y-B  </div><div>Catalyst 9400 Series SUP1XL-Y BUNDLE PID ONLY-NOT ACTUAL HW</div></div></td><td><div>Qty</div></td><td>21 days</td><td>6,017.11</td></tr><tr><td><div><div><input type="radio"/></div><div>C9400-SUP-1XL-B  </div><div>Catalyst 9400 Series SUP1XL BUNDLE PID ONLY-NOT ACTUAL HW</div></div></td><td><div>Qty</div></td><td>21 days</td><td>6,017.11</td></tr><tr><td><div><div><input type="radio"/></div><div>C9400X-SUP-2-B  </div><div>Catalyst 9400 Series SUP2 BUNDLE PID ONLY - NOT AN ACTUAL HW</div></div></td><td><div>Qty</div></td><td>21 days</td><td>5,987.34</td></tr><tr><td><div><div><input checked="" type="radio"/></div><div>C9400X-SUP-2XL-B  </div><div>Catalyst 9400 Series SUP2XL BUNDLE PID ONLY-NOT ACTUAL HW</div></div></td><td><div>1</div></td><td>21 days</td><td>12,040.83</td></tr></tbody></table></div>	SKU	Qty	Estimated Lead Time ⓘ	Unit List Price (USD)	<div><div><input type="radio"/></div><div>C9400-SUP-1-B  </div><div>Catalyst 9400 Series SUP1 BUNDLE PID ONLY - NOT AN ACTUAL HW</div></div>	<div>Qty</div>	21 days	0.00	<div><div><input type="radio"/></div><div>C9400-SUP-1XL-Y-B  </div><div>Catalyst 9400 Series SUP1XL-Y BUNDLE PID ONLY-NOT ACTUAL HW</div></div>	<div>Qty</div>	21 days	6,017.11	<div><div><input type="radio"/></div><div>C9400-SUP-1XL-B  </div><div>Catalyst 9400 Series SUP1XL BUNDLE PID ONLY-NOT ACTUAL HW</div></div>	<div>Qty</div>	21 days	6,017.11	<div><div><input type="radio"/></div><div>C9400X-SUP-2-B  </div><div>Catalyst 9400 Series SUP2 BUNDLE PID ONLY - NOT AN ACTUAL HW</div></div>	<div>Qty</div>	21 days	5,987.34	<div><div><input checked="" type="radio"/></div><div>C9400X-SUP-2XL-B  </div><div>Catalyst 9400 Series SUP2XL BUNDLE PID ONLY-NOT ACTUAL HW</div></div>	<div>1</div>	21 days	12,040.83	<p>It is specified in Section 4.1 of the Commission’s Technical Specifications “<i>Catalyst 9400 Series 7 Slot Hardware Specification for one Switch</i>” that the Commission needs <u>C9400X-SUP-2</u> (Catalyst 9400 Series Supervisor 2 Module).</p> <p>It seems that it is in the C9400x-SUP-2-B bundle.</p> <p>Please note that the Commission does not have access to the same sales information as CISCO partners, so we expect bidders to identify the correct bundles according to product code in the Technical Specifications.</p>				
SKU	Qty	Estimated Lead Time ⓘ	Unit List Price (USD)																											
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<div><div><input type="radio"/></div><div>C9400-LC-48HN-B</div><div>Catalyst 9400 2xC9400-LC-48HN BUNDLE PID ONLY-NOT ACTUAL HW More</div></div>	<div>Qty</div>	21 days	5,899.12																											
<div><div><input type="radio"/></div><div>C9400-LC-48HX-B</div><div>Catalyst 9400 2xC9400-LC-48HX BUNDLE PID ONLY-NOT ACTUAL HW More</div></div>	<div>Qty</div>	21 days	12,530.00																											
3	<div>Which Line Cards should be added / in addition to the Bundle?</div>	<p>It is specified in Section 4.1 of the Commission’s Technical Specifications “<i>Catalyst 9400 Series 7 Slot Hardware Specification for one Switch</i>” that</p>																												

Clarifications No. 2 – ITB 2025-0088/MOGAPI

“Supply, delivery, installation and testing for CTBTO Floor Access Switches Replacement”

10/100/1000/Line Cards			
SKU	Qty	Estimated Lead Time	Unit List Price (USD)
<input checked="" type="checkbox"/> C9400-LC-48H <small>EXP ***</small> Cisco Catalyst 9400 Series 48-Port UPOE+ 10/100/1000 (RJ-45)	2	21 days	0.00
<input type="checkbox"/> C9400-LC-48P <small>EXP ***</small> Cisco Catalyst 9400 Series 48-Port POE+ 10/100/1000 (RJ-45)	Qty	21 days	8,848.69
<input type="checkbox"/> C9400-LC-48T <small>EXP ***</small> Cisco Catalyst 9400 Series 48-Port 10/100/1000 (RJ-45)	Qty	21 days	8,423.95
<input type="checkbox"/> C9400-LC-48U <small>EXP ***</small> Cisco Catalyst 9400 Series 48-Port UPOE 10/100/1000 (RJ-45)	Qty	21 days	10,830.79
<input type="checkbox"/> C9400-LC-48UX <small>EXP ***</small> Cisco Catalyst 9400 Series 48Port UPOE w/ 24p mGig 24p RJ-45	Qty	21 days	14,159.08
<input type="checkbox"/> C9400-LC-48HN <small>EXP ***</small> Cisco Catalyst 9400 Series 48-Port UPOE+ 5G (RJ-45) More	Qty	21 days	14,157.90
<input type="checkbox"/> C9400-LC-48H-UI <small>EXP ***</small> Cisco Catalyst 9400 Series 48-Port UPOE+ 10/100/1000 (RJ-45) More	Qty	21 days	10,830.79
<input type="checkbox"/> C9400-LC-48HX <small>EXP ***</small> Cisco Catalyst 9400 Series 48-Port UPOE+ 10G mGig More	Qty	21 days	18,544.40
<input type="checkbox"/> C9400-LC-48TX <small>EXP ***</small> Cisco Catalyst 9400 Series 48-Port 10 GigaBit Ethernet Data More	Qty	21 days	18,544.40

the Commission needs one (1) , C9400-LC-48P line card.

It seems that it is listed as C9400-LC-48P.

Please note that the Commission does not have access to the same sales information as CISCO partners, so we expect bidders to identify the correct bundles according to product code in the Technical Specifications.

4 You require BUNDLE C9407R-96U-BNDL-E

That Bundle configuration comes with 2 PCS of C9400-LC-48P –, you cannot order just one card in this bundle

Therefore, as you have only 5 slots for the cards you cannot use additional 4 pcs of C9400-LC-48T card

Technically it is possible to use one of C9400-LC-48P as C9400-LC-48T and the price of the whole configuration will be even lower (you will order only 3 pcs of C9400-LC-48T card.)

However, as we have to comply with your specification in Annex B, can you please confirm

- You intend to purchase this bundle as the price is much lower than if ordered separately
- You accept the fact that inside this bundle are 2 pcs of C9400-LC-48P for no additional cost, it is in the price of bundle
- You change the specification from 4 pcs to 3 pcs of C9400-LC-48T, having in mind that P card can be used as T card, so the whole configuration will be even cheaper.

The configuration with 3 C9400-LC-48T and 2 C9400-LC-48-P is technically acceptable.

As two C9400-LC-48-P are included in the bundle C9407R-96U-BNDL-E, Section 4.1 of the Commission’s Technical Specifications “*Catalyst 9400 Series 7 Slot Hardware Specification for one Switch*”, is hereby changed as follows:

Line 4 (C9400-LC-48T) quantity is corrected from 4 to 3

Line 6 (C9400-LC-48P) from 1 to 0, thus the line is deleted.

Please see the above-mentioned amendments in Section 4.1 of the Commission’s Technical Specification, Rev. 16.06.2025.

Technical Specification

Floor Access Switches Replacement

1. Introduction

The Preparatory Commission for the Comprehensive Nuclear-Test-Ban Treaty Organization (the “CTBTO” or the “Commission”) is an international organization based in Vienna, Austria. Its main task is establishing a global verification regime to monitor compliance with the Comprehensive Nuclear Test Ban Treaty (CTBT), which bans all nuclear explosions. The verification regime includes a global network of over 337 monitoring facilities using four different technologies (seismic, hydro-acoustic, infrasound, and radionuclide), a communications infrastructure, an international data center, and the capability to conduct on-site inspections.

Additional information on the CTBTO may be found at <https://www.ctbto.org/>.

To enable the Commission to perform its operations, the Commission seeks to appoint a Contractor for the decommissioning of existing switches and the supply, delivery, installation and configuration of new Floor Access Switches (the “Work”) as specified in these Technical Specifications.

This Specification defines the technical framework and/or requirements for the Work to be performed by the Contractor.

2. Background

The Commission requires the replacement of existing Catalyst 4500 floor switches at its Headquarters, located at the Vienna International Centre, Wagramer Strasse 5, A-1400 Vienna, Austria and the TeST Centre located at Forschungszentrum AIT, Seibersdorf, 2444, Austria with new hardware as stated under Section 3 below.

3. Deliverables

The Contractor shall:

- 3.1 Supply, deliver and install seven (7) replacement Catalyst 9400 switches including configuration of the same.
- 3.2 Supply and deliver four (4) Nexus 9300 switches.
- 3.3 Decommission existing Catalyst 4500 floor access switches.
- 3.4 Provide Smartnet Maintenance for all Hardware from the time of installation and commissioning until 31 October 2026.

4. Hardware Specification

4.1 Catalyst 9400 Series 7 Slot Hardware Specification for one Switch

Product Code	Product Description	Quantity
C9407R-96U-BNDL-E	Catalyst 9400 Series 7 slot, 1xSup, 2xLC , DNA-E LIC	1
C9400-PWR-3200AC	Cisco Catalyst 9400 Series 3200W AC Power Supply	4
CAB-CEE77-C19-EU	CEE 7/7 to IEC-C19 13ft Europe	4
C9400-LC-48T	Cisco Catalyst 9400 Series 48-Port 10/100/1000 (RJ-45)	4 3
C9400X-SUP-2	Cisco Catalyst 9400 Series Supervisor 2 Module	1
C9400-LC-48P	Cisco Catalyst 9400 Series 48-Port POE+ 10/100/1000 (RJ-45)	4 0
C9407-RACK-19-KIT	Cisco Catalyst 9400 Series 7 slot chassis Rack Mount	1
C9400-DNA-E-3Y	Cisco Catalyst 9400 DNA Essential 3 Year License	1

4.2 Nexus 9300 Hardware Specification for one Switch

Product Code	Product Description	Quantity
Nexus 93108TC-EX N9K-C93108TC-FX3	Nexus 9K Fixed with 48p 10G BASE-T and 6p 40G/100G QSFP28	1
NXA-PAC-500W-PI	Nexus 9000 500W AC PS, Port side Intake; Supported on Nexus 93180YC-EX and 93108TC-EX only Cisco Nexus 9000 500W AC PS, port-side intake	2
NXA-FAN-30CFM-B NXA-SFAN-35CFM-PI	Nexus Single Fan, 30CFM, port side intake airflow	1

	Cisco Nexus fan, 35CFM, port-side intake airflow	
CAB-9K10A-EU	Power Cord, 250VAC 10A CEE 7/7 Plug, EU (2.5 meter)	2
NXK-ACC-KIT-1RU	Nexus Fixed Accessory Kit with 4-post rack mount kit	1
QSFP-100G-SR4-S	100GBASE SR4 QSFP Transceiver, MPO, 100m over OM4 MMF	1

4.3 SFP Modules

Product Code	Product Description	Quantity
SFP-25G-SR-S	25GBASE-SR SFP28 module	20
SFP-10G-SR SFP-10G-SR-S	10GBASE-SR SFP+ Module	60

5. Maintenance

Product Description	Quantity
SMARTnet on-site 8x5x4 for 93180YC-FX3 until 31 October 2026 SMARTnet on-site 8x5x4 for C93108TC-FX3 until 31 October 2026	4
SNTC-8X5X4OS Catalyst 9400 Series 7 slot, Sup, 2xC940 until 31 October 2026	7

In addition, the Contractor shall propose any missing/changed parts required to mount equipment in the rack(s) and commission the switches into operation.

6. Scope of Work

1. After the contract is awarded, the Contractor shall elaborate and provide a detailed implementation and testing plan for the whole replacement procedure. The plan shall describe exactly how the replacement of the Commission's access switches is proposed with as little disruption of connectivity as possible. Any additional or temporary equipment (switches, cables, labelling, etc.) which is required for the implementation of this plan shall be provided by the Contractor as part of the proposal.
2. After the contract is awarded the Contractor shall deliver a complete configuration file for each of the seven new switches, which exactly reflects the configuration and

functionality of the respective old switch. Current configuration files of the existing switches Catalyst 4507R+E will be made available as soon as the contract has been awarded. The configuration files for the new switches shall be submitted to the Commission for review and acceptance at the latest two (2) weeks ahead of the scheduled hardware installation date. If necessary, corrected configuration files shall be provided according to the comments on the first version of the proposed configuration. The Contractor shall note that hardware installation must not start before the new configuration files have been accepted and approved by the Commission without reservation.

3. The Contractor shall deliver five (5) Cisco Catalyst 9400 switches and four (4) Nexus 9300 switches as described in Section 4 (“Hardware Specification”) above to the Receiving Area of the Vienna International Centre (VIC) during the applicable opening hours.
4. The Contractor shall deliver two (2) switches Cisco Catalyst 9400 switches as described in Section 4 (“Hardware Specification”) above to the TeST Centre Forschungszentrum AIT, Seibersdorf, 2444, Austria during the applicable opening hours.
5. Prior to the actual hardware installation, the new switches shall be loaded with the configuration files as accepted and approved by the Commission and basic testing of the then configured switches shall be conducted off-line as far as possible.
6. The Contractor shall conduct on-site hardware decommissioning of the existing switches (i.e., Catalyst 4500) (including all temporary re-cabling as required) and on-site hardware installation of the new switches CISCO Catalyst 9400 in the same networks rack and location in accordance with the detailed implementation plan.
7. Following, hardware installation, and under close supervision of the Commission, the Contractor shall conduct extensive functional testing according to the implementation and testing plan. The respective test procedures shall cover all aspects of the configuration.

7. Other Requirements and Conditions

1. The actual replacement of the currently operated access switches Cisco Catalyst 4500 by the new switches Catalyst 9400 shall be performed with as little disruption of connectivity as possible.
2. All copper and fibre links connected to the old switches shall be re-connected to the equivalent board/port on the new switches. Any necessary temporary equipment and all additional labelling shall be provided by the Contractor.
3. The total number of network disruptions due to spanning tree re-convergence events shall be kept to a minimum and has to be specified exactly in the implementation plan for the review and consideration by the Commission.

4. On-site hardware, decommissioning, and hardware installation, as well as the consecutive testing shall take place on the following working days only (Tuesday, Wednesday, or Thursday) between 18:00 and 23:30 Vienna local time.

8. Contractor's Qualifications and Experience

The Contractor shall have the qualification as a CISCO Gold Partner. The Contractor's personnel assigned to the Contract shall be able to communicate in English as it is the official language of the Commission.

9. Risk Management

The Contractor shall provide a thorough risk assessment plan at the project's commencement to identify potential risks that could impact the successful execution of the outlined implementation activities in this Technical Specifications. Risks may include but are not limited to technical challenges, changes in project requirements/scope, resource constraints, schedule delays, integration difficulties, and third-party software dependencies. The risk assessment plan should be continuously updated, aligning with the delivery of project milestones and significant accomplishments.