TO:	All Bidders	FROM:	Sally Alvarez de Schreiner Chief, Procurement Services Section
DATE:	26 May 2023		
		REF.:	RFP 2023-0047/THORVALDSDOTTIR
TEL. NO.:		TEL. NO.:	+43 1 26030 6350
EMAIL:		EMAIL:	procurement@ctbto.org

SUBJECT: **Clarification No.1 – 2023-0047/THORVALDSDOTTIR and Extension of Deadline**

Dear Bidders,

Please find attached Clarification No. 1 related to a query raised by some bidders in respect to RFP 2023-0047/THORVALDSDOTTIR "Provision of Versity ScoutFS licenses, configuration, installation, training and support services".

Please note that this Clarification No.1 is an integral part of the RFP documents and shall be considered in the preparation and submission of your proposal.

Please note that the deadline for the submission of proposals is extended to **Friday, 30 June 2023, 17:00 hours, Vienna (Austria) local time.**

We are looking forward to receiving your proposal prior to the extended deadline

Kind regards,

OiC

Sally Alvarez de Schreiner
Chief, Procurement Services Section

Attachments:

- *Question and Answer - Clarification No. 1*

Item#	Question	Answer
1	We would like to know if the deadline for submission can be extended to end of June 2023.	The RFP submission deadline is extended until Friday 30 June 2023, 17:00 hrs Vienna time.
2	In Section 5 "Requirements for the Contractor", of the ToR you state that the contractor is a certified reseller and support partner of Versity software and has successfully performed migration project from SamFS to ScoutFS. Is it also acceptable to submit a proposal if only the subcontractor meets these requirements?	No. The Section 5 of TOR clearly specify the Contractor's requirement.
3	Do you have available a logical/physical diagram of the CTBTO archive, depiction/clarification of the role of Hitachi, NetAPP and S7-2 that you can share?	The figure 1 below indicated, describe visually the elements of TOR Section 2.1 – Description of the Current System and Section 2.3 Hardware.
4	Can you expand on the purpose of the backend NFS-server on the S7-2? where are the fysical disks located?	With reference to the Section 2.1 of TOR, the S7-2 will hold the disk copy and the physical disks of S7-2 are on the G1500. Physical disks for the ScoutFS will come from NetApp.
5	Is the SL3000 solely used for SAMFS? No other applications? Is it partitioned?	With reference to the Section 2.1 of TOR, the SL3000 - is partitioned. The other partition is used by our backup software.
6	Can you share configuration information of the Thinksystem SR850 and SR860 (CPU, memory, disk and HBA)?	With reference to the Section 2.2 of TOR, the two servers have the following configurations: 4 x Intel(R) Xeon(R) Platinum 8380H CPU @ 2.90GHz (28 cores) 24 x DDR4 32 GB == 768GB 2 x single port QLogic 16Gbit/s Model QLE2690
7	Is our understanding correct that CTBTCO owns 3 Thinksystems, with 2 of them having a QLogic HBA?	This is not correct, please refer to the Section 2.2 (Hardware) of TOR and the figure 1, below (page 3)
8	Can you expand / clarify what is meant with "active file system". Such as its purpose and usage (page 4)?	With reference to the Section 2.1 (Description of current system) of TOR, the "active file system" contains hot data.
9	What is the number of directories in the archive?	With reference to the Section 2.1 of the TOR , the current number of directories is 2023-05-18T04:56:00 **3029891**
10	Do you have an indication of the growth rate per month/year?	With the reference to the Section 2.1 of TOR the growth rate per month is 2TB/month
11	Can you share with us the policies in use for each archive set?	With the reference to the Section 2.1 of TOR kindly see below the policies and configurations
12	If possible, can you share the configuration files of SAMF, particularly Archiver.cmd and the MCF-file, which gives us detailed information on your current configuration.	With the reference to the Section 2.1 of TOR kindly see below the policies and configurations

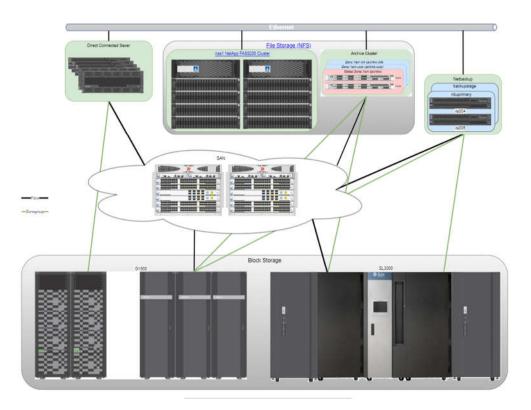| 13	What is the SLA with the State Parties? Are there any commitments such as restoring data from the archive within a certain time frame?	Archived data are used to create products, and this shall be produced within three days. There is no commitment. Upon the contract award this will be decided with the awarded contractor based on the best practices.
14	Who will decommission the SparcServers S7-2, if necessary?	CTBTO will decommission the servers.
15	Are policies in place to allow for remote access during installation and configuration work or only on-site work allowed?	As specified under Section 7.1(Scope of Maintenance) of TOR, the Commission will provide to the Contractor the remote access to the relevant infrastructure in the Commission's network.

Figure 1

Figure 1 Storage Area

The Policies and Configuration

```
# mcf
#
######################################################################
#
#
#      ----- SAM-FS Filesystem Definitions --------
#
#
# Equipment              Equip.   Equip. Family  Device  Addit.
# Identifier             Ordinal  Type   Set     State   Params.
# ----------             -------  ------ ------  ------  -------


#
# DVL Zone
#
# testfs                          100    ma    testfs    -    shared
# /dev/dsk/c0t60060E8007E35E000030E35E0000A000d0s0   101   mm   testfs   -   -
# /dev/dsk/c0t60060E8007E35E000030E35E0000A100d0s0   102   mr   testfs   -   -
#
testfs                          100 ma   testfs      -   shared
/dev/dsk/c0t60060E8007E35E000030E35E0000A000d0s0      101 mm  testfs      - -
/dev/dsk/c0t60060E8007E35E000030E35E0000A100d0s0      102 mr  testfs      - -



ARC_DVL                         200  ma   ARC_DVL    -   shared
/dev/dsk/c0t60060E8007E35E000030E35E0000A001d0s0   201   mm   ARC_DVL    -   -
/dev/dsk/c0t60060E8007E35E000030E35E0000A10Cd0s0   202   mr   ARC_DVL    -   -



DP_ROmirror                     300   ma   DP_ROmirror  -   shared
```

```
/dev/dsk/c0t60060E8007E35E000030E35E0000A00Ad0s0      301   mm    DP_ROmirror   -    -

/dev/dsk/c0t60060E8007E35E000030E35E0000A10Bd0s0      302   mr    DP_ROmirror   -    -

/dev/dsk/c0t60060E8007E35E000030E35E0000A010d0s0      303   mm    DP_ROmirror   -    -

/dev/dsk/c0t60060E8007E35E000030E35E0000A011d0s0      304   mm    DP_ROmirror   -    -


DP_ATM_dvl                          400   ma    DP_ATM_dvl    -    shared

/dev/dsk/c0t60060E8007E35E000030E35E0000A00Dd0s0      401   mm    DP_ATM_dvl    -    -

/dev/dsk/c0t60060E8007E35E000030E35E0000A10Fd0s0      402   mr    DP_ATM_dvl    -    -


#

# User Zone

#

ARC_CI                             500   ma    ARC_CI      -    shared

/dev/dsk/c0t60060E8007E35E000030E35E0000A002d0s0      501   mm    ARC_CI       -    -

/dev/dsk/c0t60060E8007E35E000030E35E0000A102d0s0      502   mr    ARC_CI       -    -


ARC_IMS                            600   ma    ARC_IMS      -    shared

/dev/dsk/c0t60060E8007E35E000030E35E0000A006d0s0      601   mm    ARC_IMS      -    -

/dev/dsk/c0t60060E8007E35E000030E35E0000A107d0s0      602   mr    ARC_IMS      -    -


ARC_Testbed                         700   ma    ARC_Testbed   -    shared

/dev/dsk/c0t60060E8007E35E000030E35E0000A007d0s0      701   mm    ARC_Testbed   -    -

/dev/dsk/c0t60060E8007E35E000030E35E0000A108d0s0      702   mr    ARC_Testbed   -    -

/dev/dsk/c0t60060E8007E35E000030E35E0000A00Ed0s0      703   mm    ARC_Testbed   -    -


ARC_PROJECTS_MN                      800   ma    ARC_PROJECTS_MN -    shared

/dev/dsk/c0t60060E8007E35E000030E35E0000A005d0s0      801   mm    ARC_PROJECTS_MN -    -

/dev/dsk/c0t60060E8007E35E000030E35E0000A106d0s0      802   mr    ARC_PROJECTS_MN -    -


DP_ATM_tst                          900   ma    DP_ATM_tst    -    shared

/dev/dsk/c0t60060E8007E35E000030E35E0000A009d0s0      901   mm    DP_ATM_tst    -    -

/dev/dsk/c0t60060E8007E35E000030E35E0000A10Ad0s0      902   mr    DP_ATM_tst    -    -
```

```
# ARC_CI                                    200  ma  ARC_CI          -   shared

# /dev/dsk/c0t60060E8007E35E000030E35E0000A002d0s0  201  mm  ARC_CI       -  -

# /dev/dsk/c0t60060E8007E35E000030E35E0000A102d0s0  202  mr  ARC_CI       -  -


#
# Global Zone
#
ARC_SYSLOG                                  1000  ma   ARC_SYSLOG   -    shared

/dev/dsk/c0t60060E8007E35E000030E35E0000A003d0s0   1001  mm   ARC_SYSLOG   -   -

/dev/dsk/c0t60060E8007E35E000030E35E0000A104d0s0   1002  mr   ARC_SYSLOG   -   -


ARC_VIDEO                                   1100  ma   ARC_VIDEO    -   shared

/dev/dsk/c0t60060E8007E35E000030E35E0000A004d0s0   1101  mm   ARC_VIDEO    -   -

/dev/dsk/c0t60060E8007E35E000030E35E0000A105d0s0   1102  mr   ARC_VIDEO    -   -


CTBT_Archive                                1200  ma   CTBT_Archive  -   shared

/dev/dsk/c0t60060E8007E35E000030E35E0000A00Cd0s0   1201  mm   CTBT_Archive  -  -

/dev/dsk/c0t60060E8007E35E000030E35E0000A10Ed0s0   1202  mr   CTBT_Archive  -  -

/dev/dsk/c0t60060E8007E35E000030E35E0000A00Fd0s0   1203  mm   CTBT_Archive  -  -


DP_RO                                       1300  ma   DP_RO     -   shared

/dev/dsk/c0t60060E8007E35E000030E35E0000A008d0s0   1301  mm   DP_RO        -  -

/dev/dsk/c0t60060E8007E35E000030E35E0000A109d0s0   1302  mr   DP_RO        -  -


DP_ATM_ops                                  1400  ma   DP_ATM_ops   -   shared

/dev/dsk/c0t60060E8007E35E000030E35E0000A00Bd0s0   1401  mm   DP_ATM_ops   -  -

/dev/dsk/c0t60060E8007E35E000030E35E0000A10Dd0s0   1402  mr   DP_ATM_ops   -  -


/dev/scsi/changer/c4t500104F000AEFC98d1     10 s3 LIBRARY1     on

/dev/rmt/0cbn                               11 ti LIBRARY1      on

/dev/rmt/1cbn                               12 ti LIBRARY1      on
```

```
#

historian                    20 hy -         on      /global/ha_config/hsm/catalog/historian


archiver.cmd

#

#

# Comprehensive Nuclear Test-Ban-Treaty Organization

# International Data Centre

#

#
********************************************************************************************
*********************

# GLOBAL DEFINITIONS

#
********************************************************************************************
*********************

#

bufsize = ti 64

bufsize = sg 32


interval = 10m




#

# generic archiver.log

#

logfile = /zpool/samutil/log/current/archiver.log

# trace = /var/opt/SUNWsamfs/archiver/trace all date module type

# trace = /var/opt/SUNWsamfs/archiver/trace none




#
********************************************************************************************
*********************

# FILESYSTEM DEFINITIONS
```

```
#
**************************************************************************************
********************


fs = testfs

archivemeta = off

logfile = /zpool/samutil/log/current/archiver.testfs.log



        1 5m

        2 10m



# -----------------------------------------------------------------------------------------------------------



fs = ARC_DVL

  archivemeta = off

  logfile = /zpool/samutil/log/current/archiver.ARC_DVL.log



  ARC_DVL          share

    1   -norelease 10m

    2   -norelease 10m



# includes ARC_CDROMS ARC_PROJECTS_SM

  DVL_PROJECTS_IMPORT   projects/atm/study/EU8_competition

    1   -norelease  10m

    2   -norelease  10m



  DVL_PROJECTS  .

    1   -norelease  10m

    2   -norelease  10m

    3   10m 100d



# -------------------------------------------------------------------------------------------------
```

```
fs = DP_ROmirror

   archivemeta = off

   logfile = /zpool/samutil/log/current/archiver.DP_ROmirror.log


      1  -norelease 10m

      2  -norelease 10m



# ----------------------------------------------------------------------------------------------------------


fs = DP_ATM_dvl

   archivemeta = off

   logfile = /zpool/samutil/log/current/archiver.DP_ATM_dvl.log


      1  -norelease 10m

      2  -norelease 10m



# ----------------------------------------------------------------------------------------------------------


fs = ARC_CI

archivemeta = off

logfile = /zpool/samutil/log/current/archiver.ARC_CI.log


   DBFARM_disk_only      oracle/notape

      1   10m


   DBFARM            oracle

      1   10m 2w

      2   8h


   ARC_CI            .

      1  -norelease 10m

      2  -norelease 10m
```

```
    3   10m 100d


# includes fs = ARC_GCI


# -------------------------------------------------------------------------------------------------------


fs = ARC_IMS

    archivemeta = off

    logfile = /zpool/samutil/log/current/archiver.ARC_IMS.log


    1   -norelease  10m

    2   -norelease  10m

    3   10m 100d


# -------------------------------------------------------------------------------------------------------


fs = ARC_Testbed

    archivemeta = off

    logfile = /zpool/samutil/log/current/archiver.ARC_Testbed.log


    ARC_Testbed_disk_only share/atm

        1   -norelease 10m

        2   -norelease 10m

    ARC_Testbed_disk_only share/frames

        1   -norelease 10m

        2   -norelease 10m

    ARC_Testbed_disk_only share/hydro

        1   -norelease 10m

        2   -norelease 10m

    ARC_Testbed_disk_only share/infrasound

        1   -norelease 10m

        2   -norelease 10m
```

ARC_Testbed_disk_only share/seismic

    1 -norelease 10m

    2 -norelease 10m

ARC_Testbed   .

    1 -norelease 10m

    2 -norelease 10m

    3 10m 100d

 # ---

fs = ARC_PROJECTS_MN

  archivemeta = off

  logfile = /zpool/samutil/log/current/archiver.ARC_PROJECTS_MN.log

    1 -norelease 10m

    2 -norelease 10m

    3 10m 100d

 # ---

fs = DP_ATM_tst

  archivemeta = off

  logfile = /zpool/samutil/log/current/archiver.DP_ATM_tst.log

    1 -norelease 10m

    2 -norelease 10m

 # ---

fs = ARC_SYSLOG

  archivemeta = off

  logfile = /zpool/samutil/log/current/archiver.ARC_SYSLOG.log

```
    1  -norelease  10m

    2  -norelease  10m

    3  10m 100d



# ----------------------------------------------------------------------------------------------------



fs = ARC_VIDEO

  archivemeta = off

  logfile = /zpool/samutil/log/current/archiver.ARC_VIDEO.log


    1  -norelease 10m

    2  -norelease 10m

    3  10m 100d




# ----------------------------------------------------------------------------------------------------



fs = CTBT_Archive

  archivemeta = off

  logfile = /zpool/samutil/log/current/archiver.CTBT_Archive.log


    1  -norelease 10m

    2  -norelease 10m

    3  10m 100d



# ----------------------------------------------------------------------------------------------------



fs = DP_RO

  archivemeta = off

  logfile = /zpool/samutil/log/current/archiver.DP_RO.log
```

```
    1   -norelease 10m

    2   -norelease 10m




# -------------------------------------------------------------------------------------------------------------



fs = DP_ATM_ops

  archivemeta = off

  logfile = /zpool/samutil/log/current/archiver.DP_ATM_ops.log



    1   -norelease 10m

    2   -norelease 10m

    3   10m 100d



#
********************************************************************************************************
********************

# PARAMS

#
********************************************************************************************************
********************



params

allsets          -rearch_stage_copy 1 -fillvsns -sort path -recycle_hwm 50 -recycle_mingain 2

allsets.3          -unarchage modify



# -------------------------------------------------------------------------------------------------------------

testfs.2          -drives 1

# -------------------------------------------------------------------------------------------------------------



ARC_Testbed.2        -drives 1 -recycle_ignore



# -------------------------------------------------------------------------------------------------------------
```

```
CTBT_Archive.1        -recycle_ignore -startage 10m

CTBT_Archive.2        -drives 1 -recycle_ignore


# -----------------------------------------------------------------------------------------------


ARC_CI.2              -drives 1 -recycle_ignore


# -----------------------------------------------------------------------------------------------


ARC_IMS.2             -drives 1 -recycle_ignore


# -----------------------------------------------------------------------------------------------


ARC_PROJECTS_MN.2     -drives 1 -recycle_ignore


# -----------------------------------------------------------------------------------------------


ARC_SYSLOG.2          -drives 1 -recycle_ignore


# -----------------------------------------------------------------------------------------------


DP_ATM_ops.1          -recycle_ignore

DP_ATM_ops.2          -drives 1 -recycle_ignore


# -----------------------------------------------------------------------------------------------


DVL_PROJECTS.2        -drives 1 -recycle_ignore

DVL_PROJECTS_IMPORT.2     -drives 1 -recycle_ignore


# -----------------------------------------------------------------------------------------------


ARC_VIDEO.2           -drives 1 -recycle_ignore
```

--

endparams

#
****
****

 # VSNPOOLS

#
****
****

vsnpools

p_unused_ti   ti TL00[1-3][0-9] TR03[5-9][0-9] TR04[4-9][0-9]

 # TL0010-TL0039, TR0350-TR0399, TR0440-TR0499

#old TR0080-TR0099, TR0200-TR0299

p_testfs_c2   ti TL000[01]

 # TL0000-TL0001

#old TR0050-TR0059

p_tst_c2   ti TR04[0-3][0-9]

 # TR0400-TR0439

#old TR0000-TR0019, TR0060-TR0079

p_ctbt_c2   ti TR05[0-9][0-9] TR06[0-3][0-9]

 # TR0500-TR0599 TR0600-TR0639

#old TR0100-TR0199

p_arc_c2   ti TR03[0-4][0-9]

 # TR0300-TR0349

#old TR0020-TR0049

p_db_c2   *ti TL000[2-9]*

 # TL0002-TL0009

p_dk_testfs_c1   *dk ^testfs_c1_01$*

 # /zpool/diskvol00/testfs_c1_01

p_dk_tst_c1   *dk ^tst_c1_0[12]$*

 # /zpool/diskvol01/tst_c1_0[12]

p_dk_tst_c2   *dk ^tst_c2_01$*

 # /zpool/diskvol01/tst_c2_01

p_dk_ci_c1   *dk ^ci_c1_01$*

 # /zpool/diskvol01/ci_c1_01

p_dk_ims_c1   *dk ^ims_c1_01$*

 # /zpool/diskvol01/ims_c1_01

p_dk_ops_c1   *dk ^ops_c1_0[1-4]$*

 # /zpool/diskvol01/ops_c1_01

 # /zpool/diskvol01/ops_c1_02

 # /zpool/diskvol01/ops_c1_03

 # /zpool/diskvol01/ops_c1_04

p_dk_proj_mn_c1   *dk ^proj_mn_c1_01$*

 # /zpool/diskvol01/proj_mn_c1_01

p_dk_proj_dvl_c1   *dk ^proj_dvl_c1_01$*

 # /zpool/diskvol01/proj_dvl_c1_01

p_dk_syslog_c1   *dk ^syslog_c1_01$*

 # /zpool/diskvol01/syslog_c1_01

p_dk_dao_c1   dk ^dao_c1_01$

 # /zpool/diskvol01/dao_c1_01

p_dk_dat_c1   dk ^dat_c1_01$

 # /zpool/diskvol01/dat_c1_01

p_dk_dat_c2   dk ^dat_c2_01$

 # /zpool/diskvol01/dat_c2_01

p_dk_dad_c1   dk ^dad_c1_01$

 # /zpool/diskvol01/dad_c1_01

p_dk_dad_c2   dk ^dad_c2_01$

 # /zpool/diskvol01/dad_c2_01

p_dk_dro_c1   dk ^dro_c1_01$

 # /zpool/diskvol01/dro_c1_01

p_dk_dro_c2   dk ^dro_c2_01$

 # /zpool/diskvol01/dro_c2_01

p_dk_rpo_c3   dk ^rpo_c3_01$

 # /zpool/rpo-loop/rpo_c3_01

p_dk_dvl_c1   dk ^dvl_c1_01$

 # /zpool/diskvol01/dvl_c1_01

p_dk_dvl_c2   dk ^dvl_c2_01$

 # /zpool/diskvol01/dvl_c2_01

p_dk_av_c1   dk ^av_c1_01$

 # /zpool/diskvol01/av_c1_01

endvsnpools

#
****

 # VSNS

#
****

vsns

 # --

testfs.1   dk -pool p_dk_testfs_c1

testfs.2   ti -pool p_testfs_c2

 # --

ARC_DVL.1   dk -pool p_dk_dvl_c1

ARC_DVL.2   dk -pool p_dk_dvl_c2

DVL_PROJECTS.1   dk -pool p_dk_proj_dvl_c1

DVL_PROJECTS.2   ti -pool p_arc_c2

DVL_PROJECTS.3   dk -pool p_dk_rpo_c3

DVL_PROJECTS_IMPORT.1   dk -pool p_dk_proj_dvl_c1

DVL_PROJECTS_IMPORT.2   ti -pool p_arc_c2

 # --

DP_ROmirror.1   dk -pool p_dk_dvl_c1

DP_ROmirror.2   dk -pool p_dk_dvl_c2

 # --

DP_ATM_dvl.1   dk -pool p_dk_dad_c1

DP_ATM_dvl.2   dk -pool p_dk_dad_c2

 # --

DBFARM_disk_only.1   dk -pool p_dk_ci_c1

DBFARM.1   dk -pool p_dk_ci_c1

DBFARM.2   ti -pool p_db_c2

ARC_CI.1   dk -pool p_dk_ci_c1

ARC_CI.2   ti -pool p_arc_c2

ARC_CI.3   dk -pool p_dk_rpo_c3

 # --

ARC_IMS.1   dk -pool p_dk_ims_c1

ARC_IMS.2   ti -pool p_arc_c2

ARC_IMS.3   dk -pool p_dk_rpo_c3

 # --

ARC_Testbed_disk_only.1 dk -pool p_dk_tst_c1

ARC_Testbed_disk_only.2 dk -pool p_dk_tst_c2

ARC_Testbed.1   dk -pool p_dk_tst_c1

ARC_Testbed.2   ti -pool p_tst_c2

ARC_Testbed.3   dk -pool p_dk_rpo_c3

ARC_PROJECTS_MN.1   dk -pool p_dk_proj_mn_c1

ARC_PROJECTS_MN.2   ti -pool p_arc_c2

ARC_PROJECTS_MN.3   dk -pool p_dk_rpo_c3

DP_ATM_tst.1   dk -pool p_dk_dat_c1

DP_ATM_tst.2   dk -pool p_dk_dat_c2

ARC_SYSLOG.1   dk -pool p_dk_syslog_c1

ARC_SYSLOG.2   ti -pool p_arc_c2

ARC_SYSLOG.3   dk -pool p_dk_rpo_c3

ARC_VIDEO.1   dk -pool p_dk_av_c1

ARC_VIDEO.2   ti -pool p_arc_c2

ARC_VIDEO.3   dk -pool p_dk_rpo_c3

CTBT_Archive.1   dk -pool p_dk_ops_c1

CTBT_Archive.2   ti -pool p_ctbt_c2

CTBT_Archive.3   dk -pool p_dk_rpo_c3

DP_RO.1   dk -pool p_dk_dro_c1

DP_RO.2   *dk -pool p_dk_dro_c2*

DP_RO.2R   *ti -pool p_ctbt_c2*

 # --

DP_ATM_ops.1   *dk -pool p_dk_dao_c1*

DP_ATM_ops.2   *ti -pool p_ctbt_c2*

DP_ATM_ops.3   *dk -pool p_dk_rpo_c3*

endvsns