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ABSTRACT

Senegal has adopted the CTBT, fully ratified in 2001 and by the way, a seismic station has been established and a National data Center during the period 2006-2011. Since 2013, the cooperation is strengthened in the field of human resources development, and equipment providing in regard to help the government to fulfill its role and responsibilities on behalf of the treaty, but, in the same time, a new consideration and apprehension are established with university, professional and government in a very benefit manner, for the CTBTO and for Senegal

I. INTRODUCTION

Sénégal is member of CTBTO and had signed the treaty in septembre 26, 1996, that enters in force on june 9, 1999(37th ratifying member of the treaty).

By the way the gouvernement expressed its commitment and support to nuclear tests ban an non proliferation goals and objectives stipulated under the Treaty.

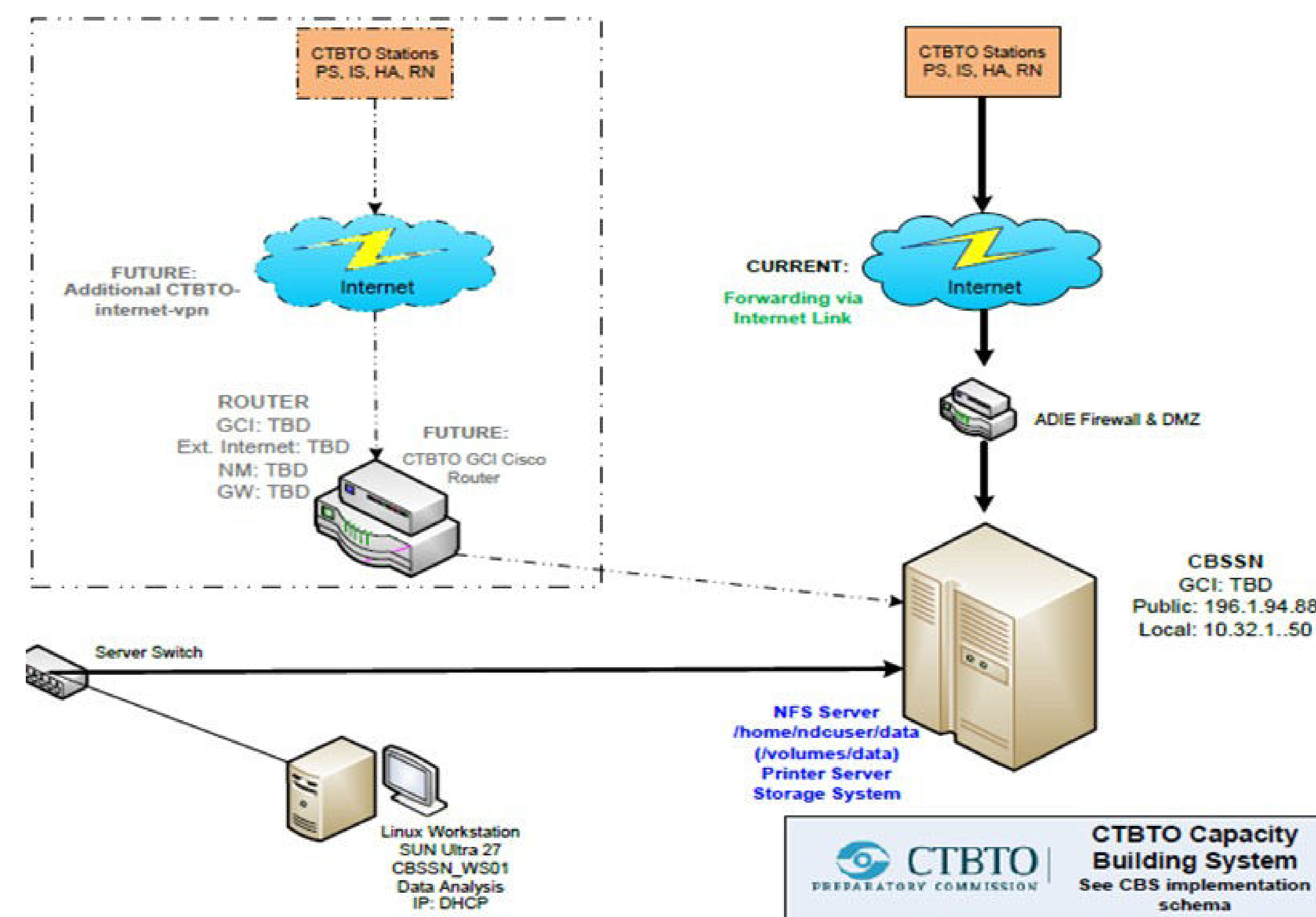
Senegal established in the framework of the cooperation with the CTBTO:

- >1- **National infrastructure** for the treaty verification provisions purposes
- >2- **HR development approach** for the treaty objectives and other verifications activities, but also for using the CTBTO data for civil and scientific applications

II- National infrastructure

On september 2011, the country was provided with National Data Center Material is installed in the University Cheikh Anta Diop of Dakar. On may 2014, the Facility was removed from the university to the Agency for Development of Informatics of the State(ADIE), in regard to connect the Serveur with high bit rate access of internet.

Senegal National Data



The Seismic Station AS097 Facility component

The gouvernement of Senegal host an auxilliary seismic Station AS97 Type 3-C at Babate(Mbour), established in 2006, under the mutal agreement with Mr. Keita acting as ambassador of Senegal in Berlin and Mr Wolfgang Hoffmann, executive secretary of CTBTO. The satation was equiped and operational until 2012, when meeting some functional problems.



The PTS In order to sustain the achievement of the AS97 activities, support the gouvernement of Senegal in the maintenance of the sation by: Site Survey, installation, Upgrade, providing new digitizer and computer and new Rack, batteries bank replacement, electricla box controller Also Consider issues related GCI are concerned : replacement of Router, Modem, in regard to have a stable to internet bandwidth via VSAT link

III- HR and cooperation development

In terms of human ressources trained:

- 2 persons are trained on NDC data analyses (2weeks training course in november 2011 at Ghana)
- 1 person trained for one month training at Vienna (4-29 novembre 2013)
- 1- The First Regional National Data Centre Training Course for Technical Staff, 25 to 30 October 2004 in Dakar
- 2- The International sub-regional cooperation Workshop, 13-15 november 2001, Dakar

IV. Priority issues and considerations of Stackholders

- Extend training with other universities and institutions involved in scientific and technical aspects of IDC products :
- Training on infrasound and its applications
- Hydroacoustic and applications
- Radionucleides and applications
- Sismic and application

the training above are foresen to be done on site(national training courses), with the support of CTBTO.

V-Uses of IMS and IDC products In Senegal

Ministere de l'Enseignement superieur et de la Recherche (MESR)
 Institut de technologie nucleaire Appliquée ITNA(UCAD)
 Direction des Systemes d'Informations (UCAD)
 Université Gaston Berger de Saint Louis (UGB)
 Ministère des Forces Armées
 Direction Protection civile (DPC) du Ministère de l'Interieur

IV. CONCLUSION AND PERSPECTIVES

1- The technical assistance of the PTS allows us to update the NDC , the GCI and Seismic facilities and their availability and accessibility, 2-enhancement of awareness for civil applications and scientific application emerged from universities and educational and research centres in Senegal.

Encourage and thank the PTS for its support and request from it to further develop national and regional capacities in the African region in Extend xenon and infrasound measurement background campaigns to cover further regions of interest in Africa To help in Specific training needs on Radionuclide (RN), Infrasound Hydroacoustic and ATM Initiate long training time in Noble gas and Particulates.

REFERENCE

- 1-www.ctbto.org
- 2 Senegalese-National reports and field activities on CTBTO facilities