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NADABAS

Report from a short term mission to the National Statistical Institute of Mozambique, Maputo Mozambique

16-27 April 2012

within the frame work of the

AGREEMENT ON CONSULTING ON INSTITUTIONAL CAPACITY BUILDING, ECONOMIC STATISTICS AND RELATED AREAS

between

INE and Scanstat

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Note: Appendix B - *Moving SQL Server (2008) to a new (virtual) server (NADABAS)* and Appendix C - *Daily backup and maintenance of NADABAS database* are only available internally at INE.

Sumário executivo em Português

O objectivo desta missão era de garantir que o NADABAS está funcionando correctamente após INE mudou-se para as suas novas instalações e para restabelecer um sistema de *backup* adequado para NADABAS.

Durante a estadia o consultor teve um excelente apoio equipe de TI do INE, que tem sido ao mesmo tempo muito profissional e com um espírito de serviço.

Intenções do INE e de, ainda este ano, mudar seus servidores centrais, incluindo o servidor NADABAS. Para garantir uma transição suave de NADABAS a um servidor novo, uma nota sobre a questão foi preparada.

 Houve uma discussão sobre o uso de NADABAS nas contas nacionais trimestrais.

Executive summary in English

The purpose of this mission was ensure, that the NADABAS is working properly after INE has moved to its new premises and to reestablish a proper backup system for NADABAS.

During the stay the consultant had an excellent support from INE IT staff, who has been both very professional and service minded.

INE intents at a later state this year to change their central servers, including the NADABAS server. To ensure smooth transition of NADABAS to a new sever, a note on the issue has been prepared.

There has been a discussion of the use of NADABAS for quarterly National Accounts.

The NADABAS server.

When the NADABAS server was recreated March 2011, the original backup system using EXPRESSMAINT was not reestablished.
INE IT staff has created a weekly backup of the database by a procedure that copies the actual database files. During the operation, the server is taken offline. The backup is directed to the storage server and a tape-backup is then taken from there.
This backup provides and effective backup that may be restored in case of a complete breakdown.

However, using EXPRESSMAINT is a better option, as this will provide backup files that may be processed (restored) using SQL Server Management Studio. For that reason the backup system based in EXPRESSMAINT was recreated with the kind assistance from INE IT staff. Appendix 1 gives the detail on how the system.

Backup is scheduled for every day at 05.00. A the same time the indexes of the database is rebuild. It turned out, that the indexes had become very fragmented leading to poor execution of the system.

The server is now located in the central server room. As the cabling of the network has improved dramatically at the new premises, this seems to be the correct solution. Later the server will be fully integrated in INE's general server system.

The NADABAS software.

Minor problems with NADABAS software have been corrected. A new version and updated documentation has been delivered.

Quarterly Accounts

The Quarterly accounts comprises of a set of base workbooks and a single workbook bringing together the results from this workbooks using standard Excel Links.

Input for Quarterly Account is entered directly into the base workbooks. This includes the total Value Added taken from the CN2003.

It was discussed if the system should be change to use NADABAS. It was concluded, that due to the very simple structure of the system (and the links in the system) , there was no need to make a total conversion, including a specific database for QA.

However, to facilitate taking the figures from CN2003, a small workbook has been created, that takes the data from CN2003 using NADABAS These data are at the level of RAMOS and is summarized to the level used by the Quarterly Accounts. Ideally, the base workbooks should link to this new sheet. However, the system is going to be redefined with CN2009, so it was decided to fully implement this during that transition.

Changing the server

The consultant was informed about the plans to change the server system later this year and to create virtual servers.

A note on how to handle the NADABAS system has been prepared, see appendix 2.

There should be no problem in establishing NADABAS as an instance of SQL Server on a common database server. If done, the connection string used by NADABAS must be changed. This has to be done from within NADABAS (that saves this in the registry), but the procedure is quite straight forward.

If the ContasNacionais folder is moved to a common storage server (and it probably should), then either the virtual drive V: (not at \\NADABAS1\ContasNacionais\ ContasNacionais) should be changed accordingly.

TERMS OF REFERENCE
Within the Common Fund Supporting the Implementation of Strategic Plan of the National Statistical System

For a short-term mission on NADABAS
16/04 – 27/04, 2012

1. Background

During the mission in November 2010, a new version of NADABAS was put into production and developed an option which takes the use of NADABAS for the quarterly national accounts. Based on this, a new database, CN 2009, was established, with spreadsheets for the new Base developed and the necessary key families defined. Finally, the latest version of NADABAS was installed on all desktops accessible, and the desktops were set up with access to both CN 2003 and CN 2009.

Because some practical problems could be experienced by the staff during the process of implementation of the new version of NADABAs, it was agreed that a new mission could take place during or at the end of the implementation of the new base year of national accounts. Yet, the move of INE into a new building in December 2011 could also affect the NADABAS as it implied the dismantling the entire informatics system.

It is under this background that INE is envisaging to carry out a new mission on NADABAS. The mission will benefit the assistance from the IT expert, Mr. Søren, who has worked for INE in developing the Mozambique´s NADABAS.

2. Objectives of the mission

Assist the national staff on improving and consolidating the new version of NADABAS and make it more efficient.

3. Expected Results

Specific expected results of the mission are:

- The new NADABAS CN 2009 improved and consolidated for the current annual national accounts estimates;

- The new NADABAS CN 2009 improved and consolidated for the current quarterly national accounts estimates;

4. Consultants and Counterpart

Consultants: Søren Netterstrøm
Counterpart: Monica Magaua, Cipriano Cláudio, Felicidade Pires and an IT to be identified.

5. Timing of the Mission

A Missão será realizada entre os dias 16/04 e 27/04/2012

6. Source of Funding

Project: MPD008-04-MPD-2008-0013 – Contas Nacionais
PAAO10 – 1.3.1 Contas Nacionais Anuais, Trimestrais e Provinciais

7. Report

The consultant will prepare a draft report to be discussed with INE before leaving Maputo. They will submit a final draft to INE for final comments within one week of the end of the mission.

Preparado e Aprovado por Saide Dade   INE/DCNIG

Data   /   /   ....

Confirmado por Luis Mungamba, Gestor do Contrato pelo INE – Contrato com a Scanstat

Data   /   /   ....

Moving SQL Server (2008) to a new (virtual) server (NADABAS).

Content available internally at INE

Daily backup and maintenance of NADABAS database.

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