

# **TRIP REPORT**

## **NAURU – ADDRESS ITU TASKS**

**30 Oct 2000**

**Les Allinson**

### **NAURU INFO**

Currency AUD  
CROP Per Diem: AUD 131  
Country Code: +674  
Country Code ISO: NR  
Menen Hotel Government rate: AUD 68

### **REPORT**

During the SOPAC 29th Annual Session, held in Tarawa, Kiribati from 26 September to 4 October 2000, Joseph Cain, the delegate from the Republic of Nauru, requested a visit by an Information Technology Unit staff member to address relevant work program tasks that include:

<b>TASK ID</b>	<b>TASK TITLE</b>
NR 2000.002	Establish and Setup Nauru Government Local Area Network (LAN) and IT Unit
NR 2000.003	Support to Member Countries in Information System Development
NR 2000.004	Support to Member Countries in Intranet/Internet Development
NR 2000.005	Support to Member Countries in GIS and Remote Sensing Development

The visit was made to Nauru immediately after the annual session and was for 2 weeks duration. During this period an activity log was maintained and included as Attachment A and meetings were held with staff from government and other organisations in Nauru where these are included as Attachment B.

The relevant issues are:

### **PROPOSALS**

Four proposals with covering letters were produced where these can be submitted individually or collectively by Nauru to a suitable donor. The 4 proposals are classified as Restricted as they include methodologies and costs that would be valuable to other consulting organisations.

If any SOPAC staff needs a copy please see ITU.

The Task ID, Report Title, Miscellaneous Report number and Budget are as follows:

<b>TASK ID</b>	<b>REPORT TITLE</b>	<b>MR</b>	<b>BUDGET</b>
NR 2000.002	LAN/WAN Proposal for Republic of Nauru Government	388	AUD 250,000
NR 2000.003	Registry Upgrade Proposal for Republic of Nauru Government	389	AUD 20,000
NR 2000.004	ISP Upgrade Proposal for Republic of Nauru Government	390	USD 20,000
NR 2000.005	GIS and Remote Sensing Workshop Proposal for Republic of Nauru Government	391	AUD 40,000

### **LAN/WAN PROPOSAL**

The LAN/WAN proposal was formulated after discussion with the Secretary to Government, Acting Secretary to Government, Department of Industry and Economic Development staff and Cenpac (the ISP) staff.

This is basically a 6-phase project with a total budget of AUD 250,000 and provides a networked information system for government offices with a dedicated connection to the ISP.

### **REGISTRY UPGRADE PROPOSAL**

This proposal was formulated following request for assistance by the Registrar and several visits to the Office of Births, Deaths and Marriages, located in the Secretary to Government office. The Registrar received a single desktop computer running Linux with copy of LifeData that is a proprietary format Registry database developed by the state of Victoria.

The system was setup by an Australian company and no training or documentation -was provided in operations. The system currently cannot print the required forms and additional hardware plus programming is needed followed by a visit by the Registrar for operations and maintenance training.

The estimated budget is AUD 20,000.

### **ISP UPGRADE PROPOSAL**

This proposal was formulated following request for assistance by the ISP engineer and several visits to ISP, located in the Telecommunications building. The system requires an upgrade in hardware and software

The estimated budget is USD 20,000.

### **GIS AND REMOTE SENSING WORKSHOP PROPOSAL**

This proposal was formulated following request for assistance by Nauru Fisheries and Marine Resources Corporation. There is an AGSO proposal that basically does the same but costs AUD 150,000 and leaves Nauru with ArcInfo that is not economically sustainable.

The estimated budget for the SOPAC solution is AUD 40,000.

### **OTHER MATTERS**

#### **RON BROWN DATA**

Obtained copy of Ron Brown bathymetry data from Joseph Cain on CD. The files are in GMT format from a Unix machine and can readily be converted in SOPAC into AutoCAD or MapInfo format.

#### **VISAS**

Visitors to Nauru require a visa where it is understood that this costs some AUD 400 and has apparently resulted from an increase in businesses being operated by non Nauruans, in particular Chinese nationals. Whether these non Nauruans have purchased Nauruan passports is a matter of conjecture but SOPAC staff need to be aware that a visa is needed before travelling to Nauru. The simple solution would be to request the National Representative to fax a request for a visit and then to present this request together with the passport(s) of relevant staff to the Nauru consul in Suva for the necessary visa. My passport was provided to Nauru immigration and a 12 month visa provided at no cost.

#### **TRANSPORT**

Transport is essential and it is recommended that the National Representative be requested to arrange such transport at no cost to SOPAC before any visit is made.

#### **COMMUNICATIONS**

Communications are inadequate where the Menen hotel has only one outside line, the general telecommunications infrastructure is generally unreliable and currently there is no international link. There is one ISP that provides dial-up for approximately under 100 users but with inadequate infrastructure, dial-up can only operate from the government offices that are fortunately adjacent to the exchange and international link.

## **ATTACHMENT A - ACTIVITY LOG**

### ***Thu 5 Oct 2000***

- Meeting with Andrew (Drew) Wright, Project Manager, International Waters, during flight.
  - Drew unaware of background that excluded SOPAC from project
  - Requested meeting at SOPAC ASAP to explore avenues for cooperation
- Arrival 1730 hrs from Nadi
- Passport with visa held and advised to pickup from immigration
- Further to discussion with Joseph Cain recommended that a document be prepared that provides open entry to all SOPAC staff engaged in work program activities in Nauru. This would enable SOPAC staff to make opportunity visits and make their visit more productive to avoid the requirement of collecting passport from Immigration.
- Checked into Menen Hotel

### ***Fri 6 Oct 2000***

- Menen Hotel
  - No water – advised tanker will deliver by midday
  - No outside lines available from rooms. Had to use single handset at reception. Fault could be faulty PABX or no external lines. Unpaid bills?
  - Contacted Dept of Industry and Island Development. No response from either 4443181 or 4443281
  - No power.
  - Met Hilma Cawley who is staying at hotel with Chris and the two youngest sons Daene and Conner until house available. Chris has been appointed headmaster of secondary school and today last day of school holidays. Houses at NPC unavailable as leases for land on which houses located are not being renewed by landowners after expiry earlier this year due to unpaid rents by government. Hilma advises that economy at all time low as Nauru's once famed wealth has been decimated.
  - Picked up by Tyrone at 13:00 hrs
- Department of Industry and Economic Development
  - Installed MapInfo 5.5 on Tyrone's desktop
  - Demonstrated conversion of AGSO ArcInfo data to MapInfo
  - Extensive mains voltage measurements yield stable 235 – 238 volts AC. Power stable voltage but intermittent outages reported.
- Department of Office of Government
  - Meeting with Jesaulenko Dowyogo, Acting Chief Secretary and Tyrone Deiye
    - Discussed task NR2000.002 - Establish and Setup Nauru Government LAN and ICT Unit
    - Jesaulenko advised that further to ADB visit some 3 weeks ago the need for an information system to assist in Finance and Economic Reform had been identified.
    - Capacity constraints in Statistic and Finance office identified
    - ADB SSTA had been provided for training.
    - The government buildings had been wired with structured cabling by Datec Fiji to a single rack mount chassis for voice and PABX installed. The ports appeared fully utilised. John Fong of Datec may be engaged by government to carry out further cabling.
    - Discussed need for an ICT Committee and noted lack of nationals with ICT specialist skills. The Committee to set priorities.

### ***Sat 7 Oct 2000***

- Menen Hotel
  - Tyrone calls 11:00 to advise no car available as Joseph Cain claims I was going to hire a car. Advised that this was incorrect and Tyrone states he will try and obtain Fruitfly vehicle and call back in 10 minutes.
  - Nothing from Tyrone.
  - Worked on MapInfo and Vertical Mapper

### ***Sun 8 Oct 2000***

- Menen Hotel
  - Worked on MapInfo and Vertical Mapper

### ***Mon 9 Oct 2000***

- Department of Industry and Economic Development
  - Demonstrated MapInfo / Vertical Mapper to Tyrone Deiye
- Cenpac
  - Assisted Jon Leeman at Cenpac ISP
  - Telnet [www.tskl.net.ki](http://www.tskl.net.ki) (203.41.41.194) on port 110 -> Netscape Messaging Server 3.52
- Department of Industry and Economic Development
  - Meeting with Perter Jacobs and Tyrone Deiye
    - MapInfo Training requested
    - Fisheries responsible for Marine Conservation, Aquaculture
    - Received AUD 600K from Taiwan for projects
    - Fisheries network setup by specialist working for Air Nauru – Windows 2000
    - 30 pair telco cable being run from ARM site who are only using 6 pairs to Nauru Telecom. Intend to connect Fisheries, NRC, School, Hospital, NPC as well.
  - Collected vehicle

### ***Tue 10 Oct 2000***

- Department of Industry and Economic Development
  - Telecon SOPAC. Requested Anna to cut following CDs and deliver Nauru Foreign Affairs representative in Suva – Clara Alefaio.
    - Vertical Mapper 2.1 and prior versions of 2.1 an upgrade
    - Microsoft NY 4.0 SP4
    - Microsoft BackOffice 4.5
- Cenpac
  - Jon downloaded Netscape Messenger 3.6 from TSKL
  - Still waiting serial number
  - Noted that Com Tech are charging AUD 91,000 to upgrade TSKL to Exchange Server (outrageous)
- Department of Office of Government
  - Meeting with Mathew Batsiua and Tyrone Deiye
    - Reaffirmed objectives
  - Registry - Births, Deaths and Marriages system
    - Corrected date (date MMDDHHMM) but had to be corrected in BIOS
    - Tested and demonstrated floppy disk access:
      - mdir a:
      - mcopy <filename> a:
      - mcopy a:<filename> .
      - mdel a:<filename>
      - mtype a:<filename>
      - etc.
    - Setup printing to communicate with HP Laserjet 4 Plus
      - Set HP Laserjet menus to common sense
      - Ensured the printer daemon loaded during startup scripts – lpd
      - Inspected /etc/printcap and noted only generic printer loaded
      - tested with lpc and lpr and noted typical staircase affect
      - modified printcap and added perl script filter under /usr/spool/lp1 to provide carriage return and line feed after each line output to printer and form feed at end of job.

### ***Wed 11 Oct 2000***

- Cenpac
  - Jon successfully loaded Netscape Messenger 3.6 downloaded from TSKL Kiribati
  - Assisted in loading and modifying anti-relay, anti-spam plugin
- Department of Industry and Economic Development
  - Tyrone Dieye at workshop all day.
- Registry - Births, Deaths and Marriages system
  - Tested system and created /doc/readme.tx file
  - Michael Cain contacted KE Software +61 3 93478844 and spoke with Paul, a software engineer. Paul confirmed that LifeData is a proprietary indexed database developed some 30 years ago by the Victorian State Government Registry for Births, Deaths and Marriages. Texpress is the database engine and provided some functionality in data entry and queries.

The Texpress and Lifedata manuals are available online at [www.ke.com.au](http://www.ke.com.au). The registration code for Texpress (2 user license minimum) is only needed if the system is reinstalled.

### **Thu 12 Oct 2000**

- Cenpac
  - Anti-relay implementation progressing
  - Checked out [www.ke.com.au](http://www.ke.com.au) but unable to download any Texpress guides
  - E-mail from Paul O'Doherty" [paul@ke.com.au](mailto:paul@ke.com.au) with license string.
  - Requested Paul for location of electronic copy LifeData Administrator Manual.
- Registry - Births, Deaths and Marriages system
  - Further inspection of backup script and obvious failure to archive (cpio) backup file to floppy disk found that the script wrote to a file /dev/rfd0 and not a raw floppy disk device. Changed both occurrences of rfd0 to fd0 and file written to disk.
- Department of Secretary to Government
  - Further to advice by Tyrone Deiye that the Chief Secretary had stated that the vehicle should be paid by SOPAC, waited on meeting with Mathew Batsua while working on registry system but he never met with me,

### **Fri 13 Oct 2000**

- Cenpac
  - Checked mail
- Nauru Fisheries and Marine Resources Authority (NFMRA)
  - Met with Peter Jacobs, Principal Fisheries Officer and Ellington Dowabobo, Chairman Nauru Fisheries Corporation (NFC)
  - Peter advised that NFMRA government statutory authority and NFC a commercial unit.
  - Inspected new network server where setup not completed and person arriving Sun 15 Oct to complete task. Noted that server Windows 2000 Server but no CD or manuals provided. The server machine is a "server clone" with dual Intel Pentium III 600 on Intel mother board 256MB RAM 2 x 18GB (SCSI?) hard drives in non RAID configuration. The network is Cat5 cable using 3 or 4 Acer 12 port 10/100 switches.
  - Recommended that ...
  - Discussed venues for GIS and Remote Sensing Workshop
    - USP Extension Centre
    - Vocational Training Centre
    - Civic Centre Auditorium
- USP Extension Centre
  - Visited with Peter Jacobs with regard to venue for GIS and Remote Sensing Workshop
  - Meeting Marie Gaiyabu, Director
  - Inspected possible venue. A little small, can seat 12. Computers Acer 486 desktops and will be replaced by 12 networked units next year.
- Capelli's
  - Looked for 1.2v AA rechargeable batteries or charger. All batteries flat and no charger
  - Groceries AUD 26.50
- Menen Hotel
  - Water on – washed clothes
- Department of External Affairs
  - Meeting with Chitra Jeremiah where described project proposals that would be delivered to Angie Itismaera on Mon 16 Oct
  - Advised that the major initiative that the government must pursue is implementing a second desalination plant to allow the existing unit that has been running since 1992 to be serviced. The refurbished plant can then produce sufficient water to commence limited but critical irrigation of vegetation.
- Registry - Births, Deaths and Marriages system
  - Demonstrated operational backup to Michael Cain
  - He requested a method of verifying contents disk
    - Transfer archive from disk to /tmp directory – `cpio -ivcB < /dev/fd0 > /tmp/<archive>`
    - Unzip archive – `gunzip /tmp/<archive>`
    - List unzipped files
    - Delete unzipped files

### ***Sat 14 Oct 2000***

- Menen Hotel
  - No water
  - Worked on NR 2000.002      Establish and Setup Nauru Government Local Area Network (LAN) and IT Unit
  - Continued on NR 2000.002
  - Visited Government Buildings to determine layout

### ***Sun 15 Oct 2000***

- Menen Hotel
  - No water
  - Continued on NR 2000.002

### ***Mon 16 Oct 2000***

- Menen Hotel
  - No water
  - Completed NR 2000.002
- Department of Industry and Economic Development
  - Finalised and printed 3 only copies LAN/WAN Proposal for RON Government
  - Rhoda in Finance bound the three copies
  - Requested Russell to delay departure Thursday to meet with Joseph and complete remaining 3 reports.
- Department of Sports
  - Assisted Julie Olssen with CDS-ISIS
- Visited Castech
  - Impressive. Greg (Australian) and Dan (Malaysian) okay. Third partner (Chineeman) evil Mafiosi type.
- Menen Hotel
  - Water!
  - Started NR 2000.003

### ***Tue 17 Oct 2000***

- Menen Hotel
  - Water!
  - Completed NR 2000.003
- Department of Industry and Economic Development
  - Finalised and printed 4 only copies Registry Upgrade Proposal for Government of RON
  - Left message for Joseph who no show.
- Cenpac
  - Downloaded LifeData Admin Manual mailed by KE Softwate
- Menen Hotel
  - Water!
  - Started NR 2000.004 and 005

### ***Wed 18 Oct 2000***

- Menen Hotel
  - Water!
  - Completed NR 2000.004 and 005
- Department of Industry and Economic Development
  - Printed remaining 3 proposals
  - Got Ron Brown data CD
  - Joseph very keen to push all 4 proposals through his Minister.

### ***Thu 18 Oct 2000***

- Menen Hotel
  - Water!
  - Completed NR 2000.004 and 005
- Department of Industry and Economic Development
  - Printed remaining 3 proposals
  - Got Ron Brown data CD

- Joseph very keen to push all 4 proposals through his Minister.

***Fri 19 Oct 2000***

- Menen Hotel
  - Water!
- Nauru – Tarawa – Nadi air
- Nadi – Suva taxi





## ATTACHMENT B - CONTACTS

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