

~~SECRET~~

18/11/13

folios 186

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ADS Please investigate with a view to bringing forward a project proposal.

I will need to be convinced we can fund - and will not be accused of 'project spending'.

ACR 18/11/13

The proposed Canberra network (project CAIMAN) and its interconnection¹ with the Melbourne network is now likely to be approximately \$200k under the budgeted amount. This is due a change in design. DR has been informed. D. 29/8

DDO
through SM
CA
ADP
29/8

For information:	ADD	PH	SM
	ADS	PHP	SMC
	CAC	PHR	TCU
	CRR	PT	

PROJECT RISING SUN
Requirement for High Performance Work-stations for PH

1. This minute seeks your endorsement of a requirement for the procurement of five high performance work-stations and associated hardware and software to maintain the cryptanalytic processing of PH. The estimated cost of this requirement is \$95,240 with ongoing costs of \$2,400 per annum.

Background

2. PH utilise Sun High Performance Work-stations as terminals connected to BISSIN and MARSIK, as well as stand-alone work-stations to perform local cryptanalysis and computer development work. Currently eighteen out of the thirty-five Sun work-stations purchased and installed in DSD under Project HENDRY in 1989-90, are installed throughout PH.

3. The thirty-three work-stations in service are linked in a network through three file servers. The file servers maintain centralised storage of data for the network, and regulate access to MARSIK and BISSIN.

4. The current PH establishment comprises 40 staff, of whom 36 require a terminal most of the working day. This represents a staff-to-work-station ratio of 36:18, or 2:1. The number of occurrences of situations is increasing in which staff cannot proceed with their work until a work-station is freed, this particularly impacts on the expansion of UNICOS development on BISSIN. The section has been supplemented by outdated Raytheon terminals as an emergency measure but these units can only access MARSIK, and they are scheduled for the scrap heap by March 1992. Accordingly, PH regards the present high staff-to-Sun work-station ratio as detrimental to the efficiency of cryptanalysis in DSD.

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Requirement

5. A requirement approval document, dated 20 June 1991, for the procurement of an additional seventeen High Performance Work-stations; ten for PH, four for PT, two for SMC, and one reserved as a spare, was endorsed in principle on 8 July. However, as funds had not been identified at that time the procurement was deferred until the funds could be accommodated in the MCE programme (FYDP 93/94, line 67). Given the high priority afforded to this minimum requirement by PH, and the fact that funds have become available due to Project Caiman coming in under budget, a re-submission of a requirement seems appropriate at this time. It is envisaged, however, that the original requirement be split into stages, with each stage being pursued as funds become available. Thus, this initial requirement is for the procurement of five work-stations to be situated in PH.

6. In line with target developments, PH are extending their use of graphics software and desktop publishing software. Consequently, additional work-stations deployed in PH must contain adequate memory and graphics processing capability.

7. Two models are suitable for meeting the work-station requirement; of these, the model which contains some capacity for connecting additional (future) work-stations is preferred.

8. ADP has indicated strong support for the PH work-station requirements.

Summary of Costs

9. The estimated costs of the requirement are as follows:

5 X Sun IPC 16" colour, 24 M-byte,	71,960
207 MB SCSI internal disk,	
1.44 M-byte 3 1/2" floppy ¹	
Isolan 1131 fanout unit	1,125
Isolan 1180 transceiver	705
20 M Aui cable, 5 X 130	650
911 M-byte IPI disk with mounting tray	20,000
Power boxes	600
Power cables	200
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TOTAL	\$ 95,240
Ongoing costs (per annum)	\$ 2,400

¹ this constitutes the standard configuration for this model work-station. Sun may be able to provide the same machine but with the unnecessary internal and floppy disc drives removed for less than the specified cost.

Related Projects

10. The following projects are likely to have effects on this requirement:

- project DIADEM, the procurement of a new cryptanalytic supercomputer processing capability, which requires access to the work-station network;
- a project to install a local area network in Canberra by March 1992, supporting seven high-performance work-stations ; the work-stations will be used initially by SMC staff, and may be used by the relocation advance party from PT and TCU;
- project SONNARIO, the installation of a fibre optic data network in DSD's Canberra premises, which may require additional slot capacity in the network file servers if the high performance work-station network is to be incorporated; and
- project QUANTUM LEAP, the conversion of cryptanalytic programmes from FOLKLORE to UNIX in readiness for the full transfer of PH's processing from MARSIK to BISSIN
could well slip due to the lack of staff accessibility to work-stations.

Time Frame

11. Since PH regard their requirement as particularly urgent, given the impact of the present undersupply of work-stations, it may be appropriate to attach a high priority to procurement and installation of five new work-stations. SMC expect that some new work-stations (and related equipment and software) could be procured and installed within two months from time of approval.

Co-ordination

12. The project has been coordinated with PH, SM and SMC.

for CAC
29 August 1991

Endorsed/~~Not Endorsed~~

A/Deputy Director Operations
August 1991
12 September