CONFIDENTIAL

Declassified by ASD - 04/02/2022 Information removed for national security and/or personal sensitivities

ADS

Through SM

PROJECT HENDRY STATUS REPORT - FEBRUARY 1990

BACKGROUND

Existing Raytheon terminals connected to the MARSIK supercomputer are being replaced by SUN workstations. The covername for this project is HENDRY. The SUN workstations will provide connections to both the MARSIK and BISSIN supercomputers; indeed the workstations provide the only terminal connection to BISSIN.

RELATED PROJECTS

BISSIN is the covername for a supercomputer to be installed at DSD in early 1990. It provides the capability to run the CRAY UNICOS operating system, and will be able to run software dependent upon the CRAY Extended Architecture design.

HENDRY PROGRESS

- The two 4/390 file servers and 24 SPARC workstations have arrived at the SUN Melbourne office. Five workstations have not been located. SMC staff will perform a system software installation on 7/3/90 at the SUN offices. The system will then be shipped to DSD.
- Contracted cabling works for Ethernet network installation have commenced. Estimated duration is 2 weeks; however problems with the network design may force the system installation date to be postponed. See below.

CONFIDENTIAL

Declassified by ASD - 04/02/2022 Information removed for national security and/or personal sensitivities

AREAS OF CONCERN

 SUN Microsystems Australia have identified a problem area in the Ethernet network design. The fanout units and fibre optic transceivers in the machine room will not drive the rest of the network. SUN and Fibrenet (the network contractors) will propose an improved design. Additional cost is undefined at this stage.

Three options may be available....

- . Install repeater units to drive the network.
- . Replace the fanout units in the machine room with fibre optic hubs.
- Install an additional Ethernet card in each file server. Each file server then provides data to workstations on two separate networks instead of one.

Attached is a copy of the original network design.

- 2. Outstanding obligation
 - a. Ergonomic furniture. AUS \$20 000 approximately. The project funds include provision for ergonomic desks. This component is especially relevant to PH, where tables are used to support the MARSIK terminals. Awaiting further action by SMC.
 - b. IKON board network attachment. AUS \$10 000 approximately. This equipment removes a point of single failure between the workstations and the Cray computers. It provides a connection between a SPARC file server and the NB400 network adapter. Awaiting advice from Techway on required board revision level.

5 March 1990