

the telecommunication journal of Australia

consolidated index

Volumes 21-30 (1971-1980)



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REMEMBER YOUR FIRST INVESTMENT IN THE AUTOMATED OFFICE?

It probably happened about 10 years ago. It probably cost you about \$100. It increased your personal productivity out of all recognition.

And that's where it stopped. Because everything it did, it did for you - and nobody else. It just couldn't communicate.

At \$100, perhaps it didn't matter. At \$10,000 - or even \$100,000 - perhaps it does. And perhaps that's why communications has joined computing and information-handling as the third great technology in the integrated, automated office.

STAND-ALONE EQUIPMENT DOES PRECISELY THAT.

Word-processor, computer, copier, printer - each of them is like your pocket calculator: on its own, it raises office productivity substantially. And then it stops. *More* productivity means *another* word-processor, *another* personal computer, and so on. If each is used to even 80% of its capacity, the whole is substantially less than the sum of its parts!

It's not uncommon to find a word-processor and a personal computer next door to each other. Each is used for only part of its day - yet because they're not linked, each has to carry its full complement of data-processing power. Sheer, wasteful duplication.

The alternative? Well, it's not a return to the vast central computer, with its white-coated priesthood and its array of peripheral slaves. Expensive. Inflexible. Clumsy. The true alternative is a

communications link between word-processor and computer. Let them *share* their data-processing capability. Instantly, wasteful duplication disappears.

Extend this principle over several pieces of equipment, and suddenly a few boxes are replaced by an economical, flexible network - a system with a *total* data-processing and information-handling capability. You can put the processing power where you like, and the specific functions where you need them.

Provided, of course, you've got communications and equipment designed to combine into just such a network.

There's absolutely no difference in principle between an office communications network and any other communications network. Information goes in at some point, is routed and switched inside it, and comes out at the right place. Much as it does in a public telephone network.

If there is a difference, it's in what happens to the information once it gets into the network, and in the way it comes out. It may have to be stored, or processed. And it may have to come out on a printer, or on a screen, or as a graph.

Happily, these manifestations are easy to handle once information is in a digital form. Digital information can be routed and switched just as easily as voice conversation - and along the same wires - if the network is designed to do it in the first place.

An Ericsson system *is* designed to do it in the first place, because an Ericsson office network uses the same communications principles as an Ericsson public telecommunications network.

And those principles are currently the most successful in the world.

AXE: THE WORLD'S MOST SUCCESSFUL MODERN TELECOMMUNICATIONS SYSTEM.

The Ericsson AXE is technologically quite advanced.

It's digital; and no other digital system has been proven on anything like the same grand scale.

AXE was launched in 1977, and has been accepted by more public telecommunications authorities around the world than any other system.

Perhaps this is why Australia chose the AXE system for upgrading its telecommunications network.

It's the AXE experience Ericsson is now bringing to bear on office automation.

And it's to this experience that our Ericsson Information Systems has added a universally respected expertise in small computers, terminals and work stations.

HIS COMPUTER, THEIR WORD-PROCESSOR AND ERICSSON COMMUNICATIONS DON'T ADD UP TO A NETWORK.

It's not, of course, a matter of finding a few stand-alones and simply using AXE to link them.

That's starting at the ground and working up. At Ericsson,

we start at the top and work down.

We begin by defining the whole system - what capability the network needs to have, what functions it must perform.

The system is broken down into sub-systems, and each sub-system assigned a group of functions. Then we take each function individually and define the equipment to perform it.

These systems and functions are naturally of two sorts: communications; and data-processing. A properly-designed office network has a single, common communications system; and a total data-processing capability, distributed and located in convenient, inter-communicating units.

The outcome is an integrated information-handling network. It links telephones, computers and terminals each *designed* to work in the network. And it links smoothly with public telephone, telex, teletex, and data networks.

PLANNING SHOULD START TODAY.

A complete integrated system requires analysis and planning.

Now is the time to start. Now is the time for us to get together.

ERICSSON 

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THE TELECOMMUNICATION JOURNAL OF AUSTRALIA

CONSOLIDATED INDEX Volumes 21-30 (1971-1980)

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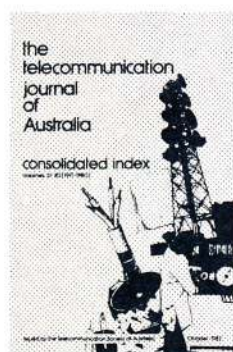
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Foreword

The consolidated index is the key to the successful use of the Telecommunications Journal of Australia as a reference document.

The 1981 User Survey indicated that 97% of the readership, retained their copies of the journal for subsequent reference and, further, 52% had referred to the Journal in the past month. This type of use demands an effective indexing system to facilitate access to the subject material.

The present index, complements that which was published in 1972 to cover volumes 1 to 20 but, does not contain listings of subjects from this previous index. For new members, who do not have the previous index and those members who require additional copies, application should be made to the General Secretary.

For all volumes covered by this index, there were three issues during each year. Volume numbers are a guide to the year of issue as the unit component corresponds to the year within the decade. That is, Volume 21 corresponds to 1971 whilst Volume 30 corresponds to 1980.

As in the past, this index is issued free of charge to financial members of the Society. Single copies of this, and the previous index are available at the same price as the current published rate for single copies of the Journal. This information is provided on the policy page of this index and each Journal.

Papers are indexed under the first significant word of the title, under other key words and under each authors name.

(IB) refers to a short article appearing in an information section and (TNI) refers to a short Technical News Item.



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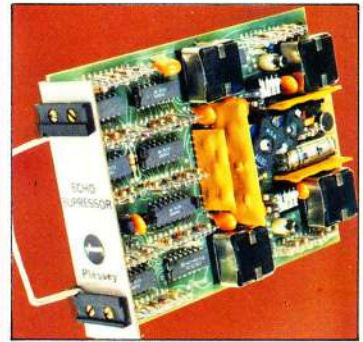
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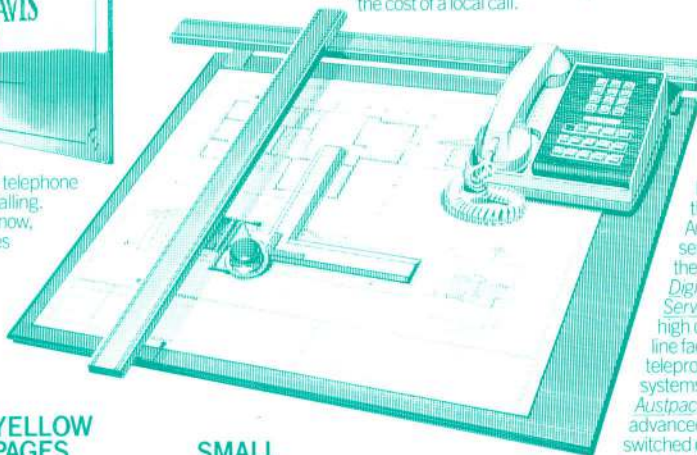
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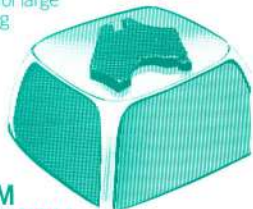
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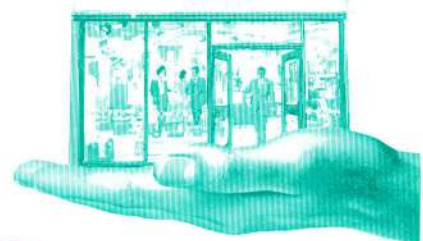
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