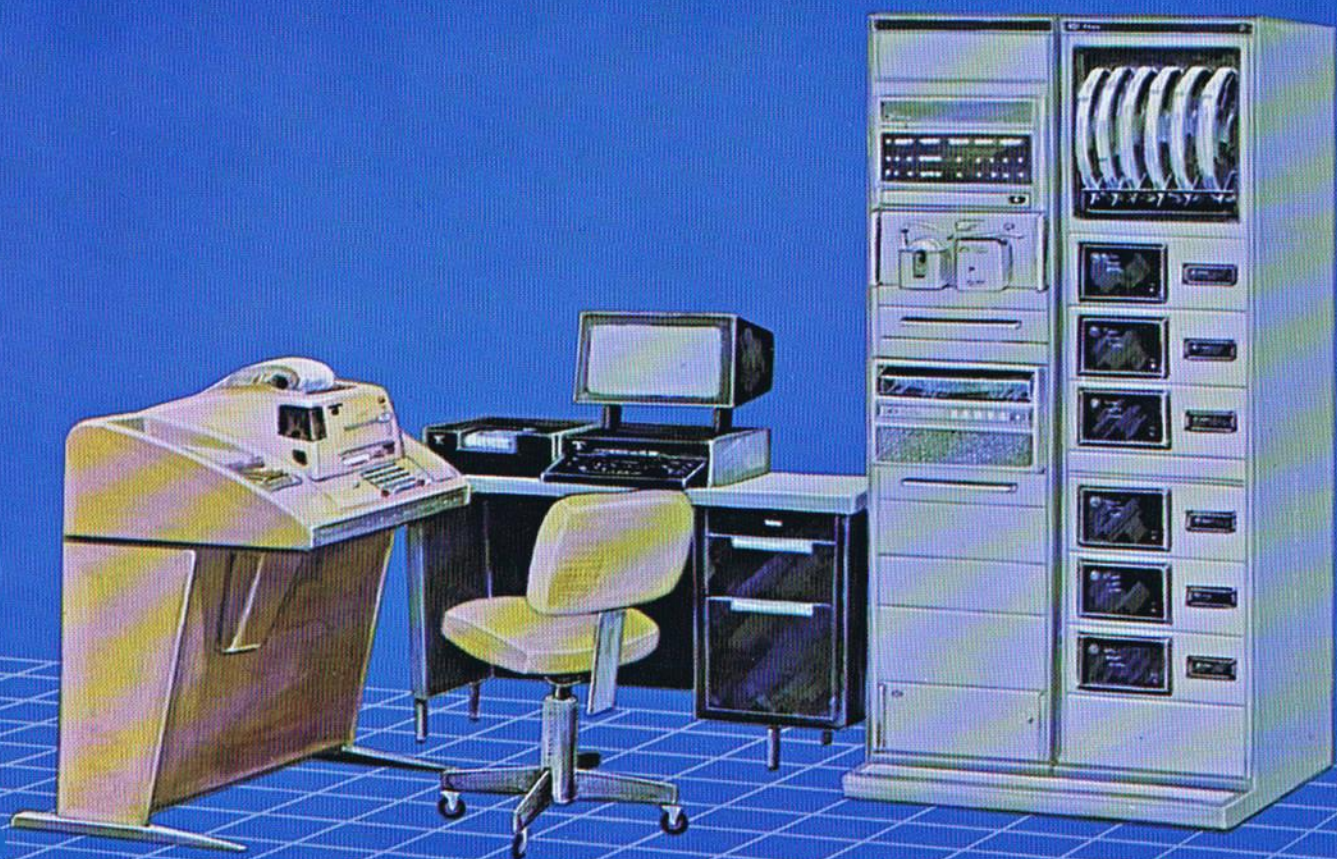


Automate-
centralize
supervision of
your broadband
plant with

SCOTS

SURVEILLANCE
AND CONTROL OF
TRANSMISSION
SYSTEMS



Western Electric

PRIVATE / distribution limited to Bell Systems Personnel only

SCOTS

A new member of Western Electric's family of centralized maintenance systems specifically designed to automate and consolidate at one central location the alarm Surveillance and Control Of Transmission Systems

- Long and medium haul radio systems
- Radio protection switching systems
- Mastergroup multiplexes
- L4 and L5 carrier systems
- Short haul radio terminals (future)
- General trade radio terminals

SCOTS—consolidates alarm surveillance and control functions of existing E-Telemetry and C1 Alarm Systems under the control of a new automated SCOTS Central—Provides a more effective, comprehensive and centralized overview of operational performance of the broadband plant in a geographical area—saves through the unmanning of tours by the elimination of existing E-Telemetry Centers, by remoting control of existing C1 alarm centers and by remoting alarms from presently manned toll terminals and protection switching offices.

For your Broadband Transmission Plant, SCOTS gives you

- Overall view of plant in real time
- Operational improvements
- Increased efficiency
- Reduced staffing
- Simplified facilities management
- Standard interconnections
- No modification of C1 remote stations
- Complete documentation

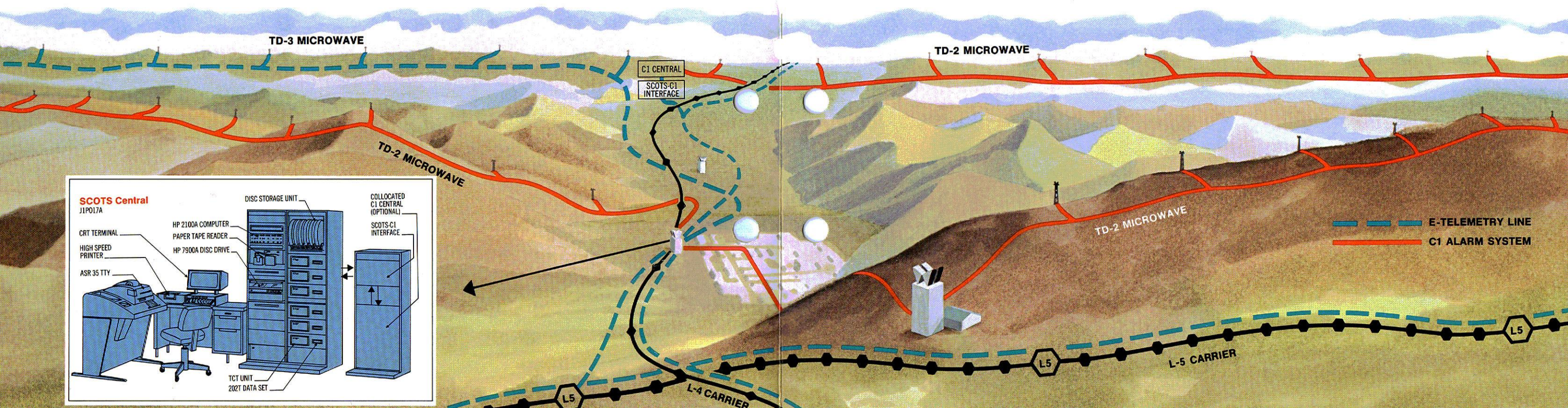
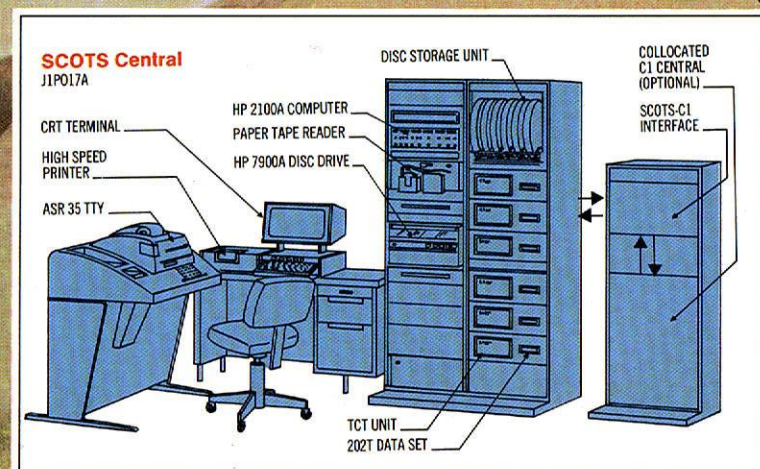
Automated SCOTS Central—installed at any convenient location where protected AC power is available, the automated Central uses a Hewlett Packard 2100A Minicomputer to control operation of the SCOTS system—Cartridge disc provides bulk storage of data and HP Real Time Executive (RTE) operating program—computer runs peripheral equipment—Interfaces with E-Telemetry data lines via Telemetry Computer Translator units and 202T data sets—Software includes basic and specific SCOTS application programs plus library and utility programs—SCOTS Central can control up to 128 C1, E1 and E2 remote stations—System development will be continued toward inclusion of additional features and interaction with other automated maintenance systems and SCOTS Centrals.

SCOTS-C1 Interface Unit—collocated with C1 Central to translate C1 alarms and control signals and scan reports to and from E-Telemetry language—May be collocated with or remotely located from the SCOTS Central—Permits control of the C1 system by the SCOTS Central—Contains a 202T data set for 600 bps parity-protected transmission to and from the SCOTS Central in the normal E2 format—Includes options for use with 6-wire or 8-wire C1 systems.

Spread the cost with phased implementation

Except for the need to have the SCOTS Central operating before utilizing SCOTS-C1 Interface Units, implementation of SCOTS can be flexibly time phased over several years including the following steps.

- Eliminating E-Telemetry Centrals (600 bps) by extending their data and voice communications to the SCOTS Central.
- Converting 150 bps E-Telemetry systems to 600 bps to permit elimination of their E-Centrals.
- Unmanning C1 Centrals by installing SCOTS-C1 Interface Units and extending their voice communications to the SCOTS Central.
- Adding E-Telemetry to new broadband transmission facilities and extensive radio overbuilds.
- Adding E-Telemetry (E2A in 1976) to offices where unmanning can be realized by remote monitoring.

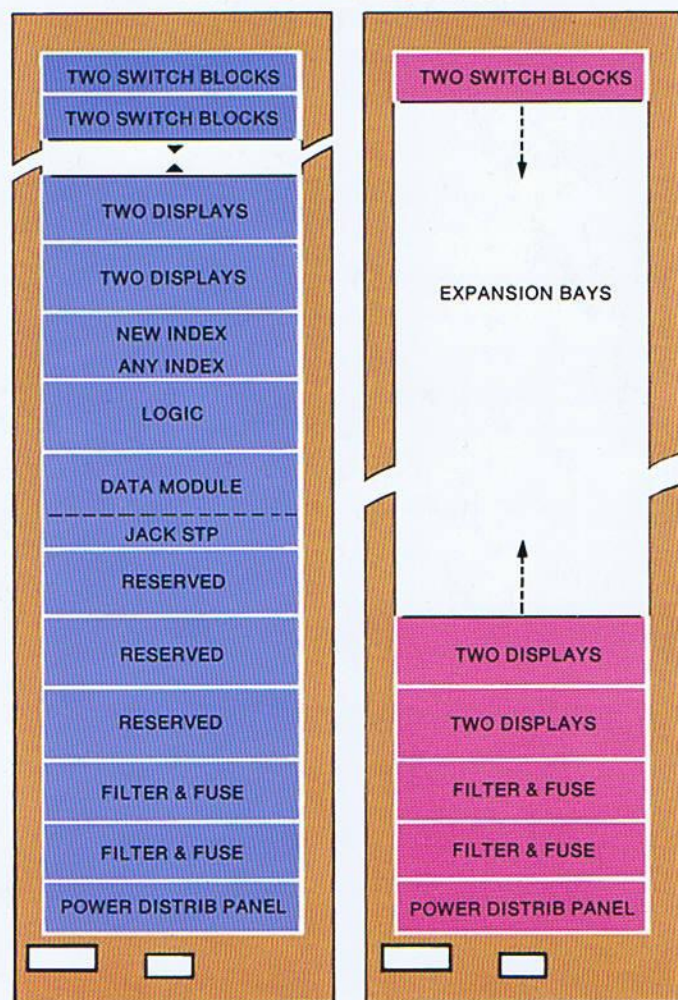


Now—lower costs for E2 engineering, installation

Significant savings can now be realized due to several new improvements in E2.

- A new simplified equipment coding system now provides complete system features including circuit packs on a list basis and reduces the amount of detailed engineering and number of drawings required
- New E2 Alarm Reporting and expansion bays which are provided with number lists that correspond on a 1-to-1 basis with standard assignment drawings for broadband transmission systems. These bays are factory wired and tested prior to shipment.

ALARM REPORTING REMOTE BAYS



11'-6" FOR J92617 AJ
9'-0" FOR J92617 AK
7'-0" FOR J92617 AL

11'-6" FOR J92617 EJ
9'-0" FOR J92617 EK
7'-0" FOR J92617 EL

Western Electric continues to stand ready to assist you in meeting your requirements for transmission systems of all types. For additional information or technical assistance, please contact the Service Consultant, Transmission Products, serving your State or Region:

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Rolling Meadows, Ill. 60008
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312-956-2024

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301-666-4225

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314-391-4359

REFERENCES EL 3011/DL 2741 Planning Considerations for SCOTS
EL 2549 E2 Status Reporting and Control Systems
BSP 865-100-101 E-Telemetry Data Nets.

PECC - MERRIMACK VALLEY,
MANUFACTURING - BURLINGTON, N.C.

PRODUCT INFORMATION ORGANIZATION

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