

Wide Area Integrated Network - WIN *(February 1989)*

At the request of the Industrial Equipment Division, a pilot project involving Corporate Telecommunication Networks, Deere Tech Services, and the Industrial Equipment Division was initiated. The project goal was to enable any of the 350+ computers found on separate Local Area Networks (LANs) in these divisions to easily and interactively share information. To do this, the LANs were interconnected into a larger Wide Area Network (WAN) using the existing Deere Corporate Telecommunications Network. The corporate computer utility (IBM host) was also connected to the WAN.

The pilot project has successfully achieved its goals. It has:

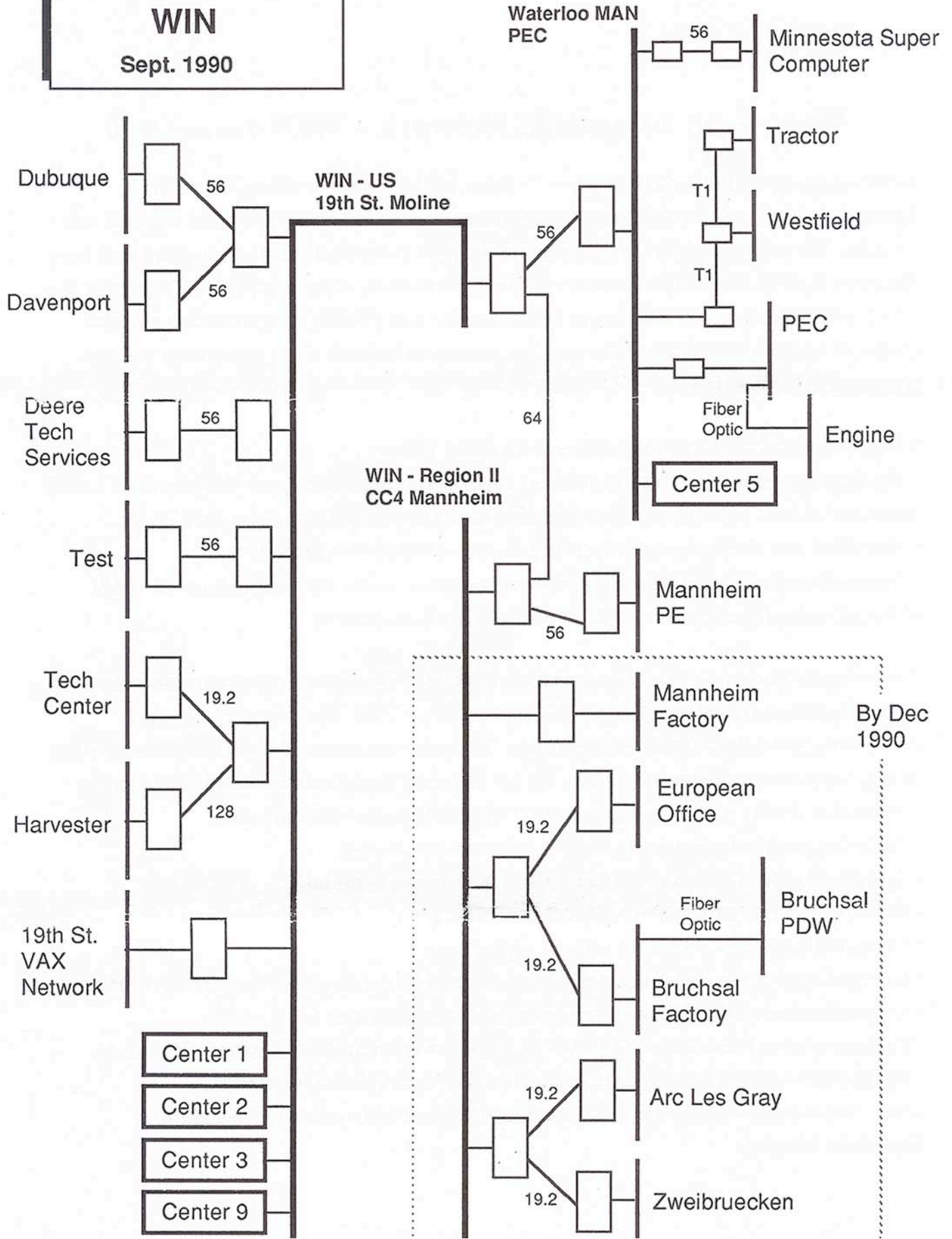
- Transparently connected Dubuque Works', Davenport Works', and Deere Tech Services' LANs.
- Included an IBM host at the Moline Computer Utility as a cooperative peer on the WAN.
- Simplified data sharing between the host and other computers on the WAN.
- Demonstrated distributed processing between computers and/or machine tools on the WAN.
- Enabled accessing computers on the WAN from any host terminal.

The Industrial Equipment Division, as well as others, view production implementation of the pilot project as critical to Computer Integrated Manufacturing (CIM). The pilot was not used to demonstrate technology for technology's sake. This pilot was proposed and installed to solve real factory needs being addressed by CIM. For the Industrial Equipment Division it will provide:

- Interactive sharing of part product geometry between Dubuque and Davenport.
- Archiving part product geometry created at Dubuque to the host.
- Transfer of payroll data from the factory floor at Dubuque to the host.
- Decreased development time for network applications.
- Decreased daily support time for network applications.
- Increased application portability, more independent of hardware vendor & operating systems.
- Implementation of simultaneous engineering applications such as:
Computer Aided Process Planning (CAPP), Engineering Information Systems (EIS 3 & 4),
World-wide Engineering Release System, Job Detail & Standard System (JDSS).

Most of these same benefits will apply to all John Deere divisions, not just the Industrial Equipment Division.

WIN
Sept. 1990





This is to acknowledge that your autonomous system number application has been received by Hostmaster of the DDN Network Information Center. Correspondence regarding your application will follow within the 8 working days required for processing.

PLEASE NOTE: Any correspondence regarding this application must include the autonomous system name contained in the application.

Thank you,

The Hostmaster Staff

Doug Foster
John Deere Dubuque Works
Highway 386
Dept. 972, Manufacturing Systems
Dubuque, IA 52001

October 4, 1988

Dear Doug,

The new class and network number for DEERE is:

Class B, #130.202

It is suggested that host number zero in any network be reserved (not used), and the host address of all ones (255 in class C networks) in any network be used to indicate a broadcast datagram.

The association between addresses used in the particular network hardware and the Internet addresses may be established and maintained by any method you select. Use of the address resolution procedure described in RFC-826 is encouraged.

Note that for networks connected to the ARPA-Internet or the DDN-Internet the gateway must be either a core gateway supplied and operated by BBN, or a gateway of another Autonomous System. If this gateway is not a core gateway, then some gateway in this gateway's Autonomous System must exchange routing information with some core gateway via EGP.

NOTE: Separate authorization is required to connect any independently assigned network numbers to the ARPA-Internet or the DDN-Internet.

Thanks again for your cooperation!

Sue Romano
Sue Romano
Network Information Center
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