

**DATA CONFERENCING EQUIPMENT
FOR USE WITH 4-WIRE CONUS AUTOVON FACILITIES
EQUIPMENT DESIGN REQUIREMENTS
PRIVATE SERVICE SYSTEMS**

1. GENERAL

Scope

1.01 This specification, together with the supplementary information listed herein, covers the equipment design requirements for the framework, equipment, and circuits to be used in the engineering, manufacture, and installation of data conferencing equipment for 4-wire SAGE data systems associated with the CONUS AUTOVON network.

Description

1.02 The data conferencing equipment covered by this specification is comprised of an addressable data bridge and a crosstell data bridge.

1.03 The addressable data bridge provides data communication between a radar site and four control points, such as Direction Centers (DCs) or NORAD Control Centers (NCCs). Data is transmitted simultaneously to the control centers from the radar site. Each control center or radar site has access to the data bridge via a dedicated facility or switched connection through the AUTOVON network. In case of a switched connection, access is obtained with a 7-digit dial code. Transmission from the control centers to the radar site is provided over the bridge on a mutually exclusive basis, ie, only one DC or NCC may send data at a given time.

1.04 The crosstell data bridge operates back-to-back with a companion bridge to provide data communication from up to four DCs or NCCs on one bridge to four DCs or NCCs on the companion bridge. Data is transmitted on a mutually exclusive basis from one of the DCs or NCCs on each bridge to the other bridge. All four DCs or NCCs on a bridge simultaneously receive data from the other bridge.

The crosstell data bridge, through strapping options on the unit terminal strip, can be arranged to operate as a master or slave bridge. Each bridge has one input leg and four output legs. The input leg of the master bridge is connected to an off-hook service line which, on command, automatically dials the input leg of the slave bridge. The slave bridge cannot initiate a call. Three of the four output legs are connected to DCs or NCCs either on a direct point-to-point basis or on a switched basis using a 7-digit dial code. The fourth output leg always makes a switched appearance.

1.05 The addressable and crosstell data bridges consist of apparatus mounted on 2- by 23-inch mounting plates and on circuit packs. They are surface wired and arranged to mount on bulb-angle framework with a 10-inch guardrail, No. 1 ESS framework, and sheet metal framework. The addressable data bridge occupies the space of nine 2-inch by 23-inch mounting plates and the crosstell bridge, seven 2-inch by 23-inch mounting plates.

2. SUPPLEMENTARY INFORMATION

AA128.006 — List of General Equipment Requirements Section
J99289 (AA388.153) — TOUCH-TONE® Calling Receiver

3. DRAWINGS

WECO J drawings should be ordered by referring to the prefix and base number and requesting the current dash (—) number.

J1G023A-() — Addressable Data Bridge and Control Unit

J1G023B-() — Crosstell Data Bridge and Control Unit

- J99289B-() — TOUCH-TONE Calling Receiver Unit
- SD-1G245-01 — Private Service Systems — Addressable Data Bridge and Control Circuit
- SD-1G250-01 — Private Service Systems — Crosstell Data Bridge and Control Circuit
- SD-98148-01 — TOUCH-TONE Calling Receiver Circuit

requirements of BSP Section AA610.010 (see Note 5.01).

J1G023B (AT&TCo Std) — Crosstell Data Bridge and Control Unit

Equipment — J1G023B-()

List 1 — Framework, assembly, wiring, and equipment per SD-1G250-01, Fig. 1, for one crosstell data bridge and control unit.

List 2 — Equipment and assembly required in addition to list 1 to meet the hardening requirements of BSP Section AA610.010 (see Note 5.01).

4. EQUIPMENT

J1G023A (AT&TCo Std) — Addressable Data Bridge and Control Unit

Equipment — J1G023A-()

List 1 — Framework, assembly, wiring, and equipment per SD-1G245-01, Fig. 1, for one addressable data bridge and control unit.

List 2 — Equipment and wiring per SD-1G245-01, Fig. 1, X option required in addition to list 1 to provide pre-cut-through indication to radar site (1 per office).

List 3 — Equipment and assembly required in addition to list 1 to meet the hardening

Miscellaneous Equipment

4.01 A 602D tool for removal of the 227-type VF amplifier is required for the crosstell and addressable data bridges.

5. GENERAL NOTES

5.01 When hardening list is provided, 3GHDN shall be stamped in close proximity to the J code on the unit and lead lengths of unsupported pigtail mounted components shall be 1 inch or less.

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