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COMSPHERE 3900 Series Modems
Models 3920 *Plus* **and 3921** *Plus*
Firmware Update Description, Release 2.0
Document Number 3920-A2-GK43-00

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Overview

This document provides an overview of the new features in the 3920*Plus* and 3921*Plus* modems as a result of Firmware Release 2.0. To obtain more information about the new features, please order the new release of the *COMSPHERE 3900 Series Modems, Models 3920Plus and 3921Plus, Installation and Operation Manual* (3920-A2-GN31-10). To order document number 3920-A2-GN31-10, please call 1-800-545-2354, extension 2222.

Release 2.0 Feature Enhancements

- V.34 modulation

  — Lease and Dial line operation.

  — Data rates from 33.6K to 2400 bps with configuration capability.

- Mux enhancements

  — MSD support (V.34 family, V.32 family or TMp).

  — Digital Bridging function.

  — Remote Digital Loopback support.

- Diagnostic Tail Circuit support – Provides the following diagnostic features over extended circuits:

  — 392x*Plus* extension point-to-point or multipoint.

  — 32 downstream devices on TMp multipoint secondary channel.

  — 64 downstream devices on diagnostic channel.

  — Mixed network support for 3400, 3600, and 3800 devices.

- Broadcast Download Clone over the Diagnostic Channel.

- 829 Type Loopback – Provides support for control or tributary modems using Trellis Multipoint or V.32 family modulations.

- Multipoint Dial Backup Support – Provides the following enhanced PSTN backup capabilities for the 3920*Plus* and 3921*Plus* modems:

    — Automatic PSTN backup upon loss of APL facility.

    — Dial and Ring Tone test for the PSTN facility while operating on APL.

    — Testing of the APL facility before restoration to APL and disconnection from PSTN.

    — Automatic or manual dial standby.

    — Change, Clear, and Display call directory command.

    — Subnetwork Health and Status alarms for dial backup.

- Additional VF parameter measurements with corresponding threshold alarms.

- NMS support – 6700 and 6800 Series Network Management Systems support the features described above.