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FORMATING PLANT 10-28-03 3-23 TERMINAL DRAWINGS CLAIMS ALLOWED DISCLAIMER Sheets Drwg. Figs. Drwg. Print Fig. **Total Claims** Print Claim for O.G. t a 2 192 2 2 NOTICE OF ALLOWANCE MAILED The term of this patent 6/21/03 Kevin Kim subsequent to _ (date) has been disclaimed. Assistant Examinar The term of this patent shall 134/03 not extend beyond the expiration date 6 of U.S Patent. No. **ISSUE FEE** STEPHEN CHIN SUPERVISORY PATENT EXAMINI Amount Due TECHNOLOGY CENTER 2600 (Primary Exeminer) (Date) , **ISSUE BATCH NUMBER** The terminal ____months of .02 this patent have been disclaimed. (Legal Instruments Examiner) (Date) WARNING: The Information disclosed herein may be restricted. Unauthorized disclosure may be prohibited by the United States Code Title 35, Sections 122, 181 and 368. Possession outside the U.S. Patent & Trademark Office is restricted to authorized employees and contractors only.

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PATENT APPLICATION SERIAL NO.

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE FEE RECORD SHEET

01/03/2001 VYAHG1 00600094 09755173 01 FC:101 710.00 0P 02 FC:103 414.00 0P 03 FC:102 480.00 0P

PTO-1556 (5/87) *U.S GPO: 2000-468-987/39595

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Bib Data Sheet

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SERIAL NUMBER 09/755,173			CLASS 375	GROUP ART UNIT 2634		ATTORNEY DOCKET NO. 081513-4				
APPLICANTS										
David M. Krinsk	David M. Krinsky, Acton, MA;									
Robert Edmund	Robert Edmund Pizzano JR., Stoneham, MA;									
** CONTINUING DATA **********************************										
** FOREIGN APPLICATIONS ******************										
IF REQUIRED, FOREIGN FILING LICENSE GRANTED										
Foreign Priority claimed yes no STATE OR SHEETS TOTAL INDEF							INDEPENDENT			
35 USC 119 (a-d) conditions	COUNTRY	DRAWING	CLA		CLAIMS					
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ADDRESS 22204 NIXON PEABODY, LLI 8180 GREENSBORO I SUITE 800 MCLEAN , VA 22102 TITLE						_				
SYSTEMS AND METHODS FOR ESTABLISHING A DIAGNOSTIC TRANSMISSION MODE AND COMMUNICATING OVER THE SAME										
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Field of the Invention

This invention relates to test and diagnostic information. In particular, this invention relates to a robust system and method for communicating diagnostic information.

Background of the Invention

The exchange of diagnostic and test information between transceivers in a telecommunications environment is an important part of a telecommunications, such as an ADSL, deployment. In cases where the transceiver connection is not performing as expected, for example, where the data rate is low, where there are many bit errors, or the like, it is necessary to collect diagnostic and test information from the remote transceiver. This is performed by dispatching a technician to the remote site, e.g., a truck roll, which is time consuming and expensive.

In DSL technology, communications over a local subscriber loop between a central office and a subscriber premises is accomplished by modulating the data to be transmitted onto a multiplicity of discrete frequency carriers which are summed together and then transmitted over the subscriber loop. Individually, the carriers form discrete, non-overlapping communication subchannels of limited bandwidth. Collectively, the carriers form what is effectively a broadband communications channel. At the receiver end, the carriers are demodulated and the data recovered.

DSL systems experience disturbances from other data services on adjacent phone lines, such as, for example, ADSL, HDSL, ISDN, T1, or the like. These disturbances may commence after the subject ADSL service is already initiated and, since DSL for internet access is envisioned as an always-on service, the effect of these disturbances must be ameliorated by the subject ADSL transceiver.

SUMMARY OF THE INVENTION

The systems and methods of this invention are directed toward reliably exchanging diagnostic and test information between transceivers over a digital subscriber line in the presence of voice communications and/or other disturbances. For simplicity of reference, the

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