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(21) International Application Number: PCT/US98/11092 (22) International Filing Date: 1 June 1998 (01.06.98) (71) Applicant (for all designated States except US): COGITO ECONOMIC SYSTEMS, INC. [US/US]; 285 Florence Avenue, Hillside, New Jersey 07205 (US). (72) Inventor; and (75) Inventor/Applicant (for US only): SMITH, Ulysses, Grant, Jr. [-/US]; 285 Florence Avenue, Hillside, NJ 07205 (US). (74) Agent: PANIAN, Michael, G.; One Oxford Centre, 20th floor, 301 Grant Street, Pittsburgh, PA 15219-1410 (US).		(81) Designated States: AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TT, UA, UG, US, UZ, VN, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i>

(54) Title: AUTOMATIC CALL DISTRIBUTION SYSTEM**(57) Abstract**

A system and process for accepting, assigning, and delivering telephony communications data between computer telephony integration clients and stored program control point applications through a server-based virtual circuit management system. The virtual circuit management system includes and I/O Vector object array. Objects instantiate uniquely with logical identification properties, telephony data and a vector for data delivery to either clients or applications. The logical identification allows data managed by the virtual circuit management system to be persistent in both the source and destination systems. In this process, bytes of data are read into the object array from the server's operating system's input/output process. Object instances are created within the Vector object array through a

process based upon the properties inherited from the data written from the I/O system. The instance provides the logical ID of the origination of the telephony communication data and a vector process instance to be used to deliver the data to its destination. The vector process instance only reads and writes data of its own instance, determined by its logical ID attribute. The vector process writes the data portion of its instance to a different vector object process by that Vector object process's ID. All data written by a vector process is directed to its destination by that logical ID within the virtual circuit management system.

