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***RT Logic Announces the TDRSS Cross Link Simulator (TSIM) for Satellite Test Based on RT Logic's Telemetry T70/70 Product Line***

Colorado Springs , CO, October 7, 2004 -- RT Logic, a wholly owned subsidiary of Integral Systems, Inc., (NASDAQISYS) today announced the availability of their Tracking and Data Relay Satellite System (TDRSS) Cross Link Simulator (TSIM). The TSIM is based on RT Logic's Telemetry T70/70 product and it generates and receives the spread spectrum signals used by NASA's TDRSS. The TSIM provides an economical method to test payloads and transponders that will access TDRSS while on orbit.

"We are pleased to extend our signal processing capabilities to include support for the TDRSS spread spectrum waveforms. This capability, unique in the industry, allows spacecraft and transceiver manufacturers to verify TDRSS signal interfaces during satellite integration activities," said Mike Rice, Manager of RT Logic's Satellite Test Group.

RT Logic has already successfully delivered the first TSIM to NASA at Wallops Island, VA and now has several additional TSIM units on order with NASA and multiple US satellite manufacturers. Additionally, the TSIM spread spectrum processing capability has been integrated into several satellite ground system solutions. Specifically, the TSIM simulates the Multiple Access (MA) and the S-Band Single Access (SSA) Spread Forward Link and Return Link Data Group 1, Mode 1 and 2. In normal operations, the TSIM receives digital cross-link command data and generates the TDRSS spread spectrum forward link signal. For the forward link, command data is modulo-2 added to a command Pseudo-Random Noise (PN) sequence and placed on an I Channel with higher power relative to the Q Channel. A Ranging PN sequence only is placed on the Q Channel. The two PN sequences are modulated in a staggered QPSK format known as SQPN. The TSIM can also receive the return link RF signal and it de-spreads and demodulates either the Mode 1 or Mode 2 return link PN codes. The return link signal is also SQPN modulated, but it allows data to be placed on both the I and Q phases. The TSIM recovers this data and outputs data and clock for both I and Q streams. Epochs from the forward and return links are used for range measurements. An integral Doppler simulator allows any Doppler profile to be easily simulated.

The TSIM is implemented using RT Logic's Telemetry architecture and is comprised of Dynamic Digital Processors which support the full range of IF and baseband processing, signal modulation, demodulation, and digital front end functions. This configurable high speed digital technology offers many performance advantages over analog and non-configurable digital systems. As a fully integrated system (typically rack mounted), the TSIM comes with a graphical user interface for easy configuration. The modularity and configurability of RT Logic's architecture permits easy tailoring of the basic TSIM to specific customer requirements.

### **About RT Logic**

RT Logic is a leading provider of products for ground-based space applications, primarily for satellite and launch range operations. Known for exceptional innovation, performance and support, RT Logic has delivered over 1200 systems since its inception in 1997. RT Logic offers a complete line of Telemetry™ products used in systems for widely varied control center, ground antenna, and range applications. Since October 2002, RT Logic has operated as a wholly owned subsidiary of Integral Systems Inc.

### **About Integral Systems**

Founded in 1982, Integral Systems is a leading provider of satellite ground systems and has supported over 190 different satellite missions for communications, science, meteorological, and earth resource applications. The Company was the first to offer an integrated suite of COTS (Commercial Off The Shelf) software products for satellite command and control, the EPOCH IPS product line. EPOCH has become a world market leader in commercial applications with successful installations on 5 continents. The company also offers products and services for satellite integration and test and payload data processing as well as a full motion tracking antennas.

The Company's subsidiary, SAT Corporation, provides satellite and terrestrial communications signal monitoring systems to satellite operators and users throughout the world. Through its Newpoint Technologies, Inc. subsidiary, the Company also provides software for equipment monitoring and control to satellite operators and telecommunications firms. Integral Systems has approximately 380 employees working at Company headquarters in Lanham , Maryland , and at other locations in both the U.S. and Europe.

Except for statements of historical facts, this news release may contain forward-looking statements about the Company. The forward-looking statements appearing in this news release are subject to risks and uncertainties that may cause actual results to differ materially from such statements, including the Company's reliance on contracts and subcontracts funded by the U.S. government, intense competition in the ground systems industry, the competitive bidding process to which the Company's government and commercial contracts are subject, the Company's dependence on the satellite industry for most of its revenues, rapid technological changes in the satellite industry, the Company's acquisition strategy and those other risks noted in the Company's SEC filings. The Company assumes no obligation to update or revise any forward-looking statements appearing in this news release.