

# RADAR DATA EXTRACTOR AND DIGITAL SCAN CONVERTER

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The LETVIS EXT/S is a high performance radar processor which transforms primary radar video outputs - from virtually any air surveillance radar - into high quality digital target reports or track messages suitable for integration into modern control centres. The LETVIS EXT/S is modular in design and can be configured in any combination of primary radar or weather extractor. The system is interfaced to a control and maintenance console to provide real-time PPI and weather information while providing complete system monitoring, maintenance and recording functions.

## Components:

- Radar Data Extractor
- Digital Scan Converter
  - Weather channel processing
- Control and Maintenance software

## Improved Surveillance Picture

The LETVIS EXT/S software includes a field proven and certified (ATS, CAA of the Slovak Republic, and the Armed Forces of the Slovak Republic) Sensor Data Processor which dramatically reduces radar false plots from weather, bird flocks, road traffic, ground clutter and anomalous propagation. Additional data processing features include primary/secondary radar plot association, message filtering and coordinate transformations.

## Format and Protocol Flexibility

The LETVIS EXT/S is designed with user configurable format and protocol capabilities providing for highly effective data translation and distribution functions. The product supports a multitude of protocols (e. g., synchronous, asynchronous, HDLC), electrical standards (e. g., RS-232C V.24, RS-422, ETHERNET 802.3) and ASTERIX message format. New formats can be added to meet customer needs.

## Distribution and Integration of Data

In addition to providing data via traditional serial channels, target data is distributed using standard TCP/IP and UDP/IP communication protocol over an Ethernet local area network (LAN). This LAN based data is available for integration into local or remote ATC and C4I systems or cross-told to remote command and control centres. Data can be fused with other sensors using LETVIS MRT (Multi Radar Data Processing System) into a single, unified air picture. Fusing and sharing of data decreases the costs of operating autonomous overlapping systems or purchasing new systems. Additionally, refined data can also be output as reconstituted radar video based to support legacy video display systems.

Available in either single channel or redundant channel configurations, the LETVIS EXT/S is a stand-alone system in a rack mountable enclosure requiring only triggers, ARPs, ACPs and video signals to interface with radar. LETVIS EXT/S was employed for PSR digitization and upgrade in amount of more than 30 radars of Czechoslovak or Russian production (RL4, RL-5, RP4, RP5, P18, 1RL128, P37, P19, PRV16, PRV 17, ST68 series).