D-ATIS (Digital Automatic Terminal Information Service)

Air traffic service providers is possible to transmit ATIS (Automatic Terminal Information Service) information via both VHF voice and data link channels, using Digital ATIS (D-ATIS) Ver.8.0 system at the same time.

- The system can be upgradeable to fully integrated airport system
- Two kind of D-ATIS System, can be configured combined or separately for Arrival and Departure service.
- The broadcast will be continuous and repetitive. If met information is not updated, D-ATIS will be continue to send Atis message to aircraft with attached no met information without interrupted.
- The system offered will update the broadcast information immediately a significant change occurs as a result an automatic (real-time processing) or manual input to the system. 
- The System architecture will be open and modular both in software and hardware components. The system will be easily expanded and adapted to meet additional needs, such a special approach and operation conditions related to the airports, new external interfaces or implementation of extra services.
- The system is flexible and easily configurable

**Database**

- D-ATIS System use powerful Database for storage and actions
- Records, all received /incoming and outgoing meteorological details and D-Atis Message on to the DoVlada DB (Record Database) with error status, data and utc time meaning History.
- Records and reports how many aircrafts are contacted to D-ATIS System with labels and Aircraft Registration Number
- Records and Reports, all Downlink/Uplink events
- Logs all the alarms and status of the systems.
- Any faults can be occurred on the system, will be recorded on to the ERROR DB (error database) automatically.

**Interconnecting**

- The system are interfaced with the local meteorological server, AWOS/ATFN, enabling transmission of essential data such as wind speed/direction, temperature, dew point, ceiling, QNH, QFE, etc. met information and if the data is not available, information can also be typed on the user interface.
- The system is interfaced with Data Link Service Provider (Sita, Arinc) or VDL transmitter to provide data link communication with aircraft (D-ATIS).
- Interfaced with GPS Clock (NTP), ATC System, Wind Shear, Bird or A-SMGCS (Ground) Radar, ILS, VOR and DME.

**Settings**

- The system will be customized for specific needs and it will be capable to be reconfigured by the user if the need arises.
- Range of Wind Speed, Temperature, Wind direction and selection of pre-recorded or synthesized voice will be made on the Broadcasting Settings
- Changeable speech rate
- Configure the communication protocols for external interfaces

**Datalink**

- Encode and decode D-Atis messages in accordance with a standard protocol. These encoded, two-way data link messages and sent to the aircraft over the Aircraft Communications Addressing and Reporting System (ACARS®) network.
- Available to Configure as Departure Clearance (DCL)

**User HMI**

- The System will be user friendly and will be operated via a windows style point-and-click menu-driven user interface
- Display current operational and updated meteorological information.
- Display the type of the broadcasting into the status bar (Automatic updated or manual)
- Display the type of D-ATIS configured service; ARRIVAL, DEPARTURE or Combined (ARRIVAL AND DEPARTURE)
- Display broadcasted Current ATIS Voice and Dijital message
- Review and/or print previously validated ATIS information or error logs.
- Transition Level for ATIS Broadcasting is calculated and broadcast automatically
- Entry the APPROACH, Runway in use, Runway Surface Condition, Braking Action, Friction Coefficient and other essential operational information for broadcasting.
- Word Correction Check
- Management of the 3 runways (Right/Left-Center) or more
- Play back, verify and edit data prior to broadcasting
- Manual interruption

**Alarm and Error Management**

- Display Warning related with all the meteorological data errors into the alarm window with voice.
- If the meteorological information is not updated from meteorological data source appear warning into the alarm window for update delay with voice warning
- In case of all alarm or error, a beep or speech sound is played from all terminals logged into the system and D-ATIS system’s windows displays an ERROR.
- If there is no connection or not updated meteorological information between D-ATIS and meteorological data source/AWOS, display the status into the status bar.

**Technical Monitoring and Maintenance**

- Displays all the connections status between D-ATIS System and interfaced systems
- Display D-ATIS System If it is under operational or not
- Available to see main and hot-standby server or changeover
- Available to control D-ATIS Systems and related peripheral interfaces
On the experience acquired on these systems, the Company have developed own system based on a new digital technology. The system is completed from the infrastructure (Servers, Amplifier Mixing Buffer Unit, Telephony Application Programming Unit, Sound Generator, Control and Monitoring Unit (CMS), Switching, Ground Station, Console, Multiple Workstation etc.) Many D-ATIS systems are now operative in Europe, Asia, America and Middle East.