



# Digital ATIS / VOLMET

**..it's more than just an ATIS**

**ELSA DATIS-10** is fully automated **Digital Automatic Terminal Information Services** system. This system has been developed for operation of both ATIS and VOLMET (routine broadcast of meteorological information). It is a benefit for the airport operational staff who will be relieved of the cumbersome burden of re-recording the broadcast every 30 minutes and can pay even more attention to air traffic handling.

This system automatically decodes data from external sources and translates it into a high quality voice broadcast, typically without any human intervention. The data such as runway conditions or meteorological data (METAR, TAF SIGMET, METREP, QAM). Data required for broadcast, but not available from external data sources, can be entered into the system via a user-friendly graphical user interface terminal.

We provide both **Conventional (Voice)** and **Modern/CNS-ATM (Data)**. This system equipped with ACARS Interface, as a standard requirement for Digital ATIS System (Part of Flight Information Service).

## Specification

<b>Operating system</b>	: UNIX OS, 32 Bit (Server), Windows 10/Linux (GUI)
<b>User interface</b>	: Windows, graphical
<b>Security protection</b>	: Passwords for multiple users and levels.
<b>Data inputs</b>	: via LAN, serial communication, or keyboard entry.
<b>Server mount</b>	: 19" rack mounted.
<b>Remote terminals</b>	: Multiple, rack mounted or stand alone. Workstation for manual data entry, recording and monitoring.
<b>Monitoring system</b>	: Message under preparation and messages being transmitted.
<b>Voice technology</b>	: Pre-recorded human voice, computer synthesized, user recordings or any combination.
<b>Voice coding</b>	: 16 bit PCM
<b>Services</b>	: Any mixture of ATIS and / or VOLMET (national and international).
<b>Audio Output level</b>	: 0 dBm (adjustable), 600 ohm.
<b>D-ATIS Interface</b>	: ACARS ATS Protocol. AEEC- 620, 622, 623, Arrival, Departure, Auto Update, Terminate Auto Update, Auto Enroute Information Service.
<b>Voice Redundancy</b>	: Automatic Voice Change Over Module
<b>Data Redundancy</b>	: Automatic Data Change Over Module
<b>Data Interconnection</b>	: Protocol comply to Annex 10 vol 2, METAR, SPECI, QAM

For more information on ELSA products and services, visit [www.elsa.co.id](http://www.elsa.co.id)

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## DIGITAL ATIS

### ATIS features

- Multiple Operator & Workstations
- Server
- Fully Redundant System
- Processor Failure Detection
- Automatic Change Over
- Remote Monitoring & Maintenance (RMM)
- Pre-recorded Human Voice (Native English Speaker)
- Computer Synthesized Voice
- User Recordings
- Security Protection
- On Line Data Modification & Set-up
- Automatically Decodes Data from External Sources and Translate it into Human Like Voice
- Configurable Language Abbreviation
- Configurable Language Exception (phonem configuration)
- Non-Volatile Data Storage
- Automatic Loop Voice Broadcast (Non-stop)
- Automatic Store of ATIS Messages
- Automatic Store of AFTN Format Messages
- Cyclic Data Storage Management
- Data Base of ATIS Messages (as per ICAO ATN Sarp's)
- Data Base of AFTN Messages
- Retrieve Facility for ATIS Messages

### Data Inputs

- Data Entry from user friendly GUI Workstations

- Predefined Standard Format (Departures ATIS, Arrival ATIS, Combined ATIS, VOLMET)
- Free Format Data
- External Sources, Serial Data and LAN interface (from AWOS or AFTN / AMSC)
- Prerecorded Voice Data

### ATIS Report Request from external devices (downlink)

- Message text of request for ATIS Report (ver.2) comply to AEEC 623, para 2.2.2, e.g : 0800KPITA

### ATIS Report to external devices (uplink)

- Message text of ATIS Report Uplink (ver.2) comply to AEEC 623 para 2.3.2, e.g : KPIT ARR ATIS E;1452Z 10 SCT E28 BKN.....

### Voice Set-up

- Voice Type (7 voices)
- Adjustable Voice Volume
- Adjustable Voice Speed
- Adjustable Voice Pitch

### Security Protection

- Passwords for Multiple Users and Levels
- Configuration Command Level

### Change Over / Redundancy

- Automatic by
  - Voice Change Over Module
  - Data Change Over Module

### Graphical Users Interface (GUI)

The GUI support the following command functions :

#### 1.ATIS-Departure, Arrival, Combine

- Glossary
- Get Current Data
- Compile
- Set-up
- Pre-format ATIS Data Entry

#### 2.VOLMET

- Glossary
- Get Current Data
- Compile
- Set-up
- Pre-format VOLMET Data Entry

#### 3.Free Format

- Glossary
- Get Current Data
- Compile
- Set-up
- Free Format Data Entry

#### 4.Setting

- Voice Type (male & female)
- Voice Volume
- Voice Speed
- Voice Pitch

#### 5.System Configuration

- Command Level
- Change User Password & Level
- ATIS Name / Address

#### 6.Retrieve ATIS Messages

#### 7.Retrieve AFTN Format Messages

#### 8.Retrieve ACARS Messages

#### 9.Reject Message Correction