AMSS - Automatic Message Switching System - is Vitrociset’s integrated solution for ATS message switching on AMHS, AFTN and CIDIN networks.

The AMSS system operates on the store and forward principle and in accordance with the relevant ICAO recommendations. The architecture is fault tolerant, in a master/hot-standby configuration. Every critical component is redundant so, in the event of failure, the twin element automatically takes over.

The system is configured on Linux/Intel with Oracle databases.

The modular design of the AMSS allows the easy extension of the basic configuration by adding hardware components according to specific Customer needs. Indeed, the system can be configured flexibly both in terms of processing capacity and that of supported network protocols. The basic configuration only includes the AFTN protocol, with optional extension, also separately, to CIDIN and AMHS protocols. The AMHS user position (User Agent) and the AFTN (AFTN terminal) position are also provided as standard. Thus the system can be used in various operating situations, such as an international message management centre or a smaller national sub-centre.

AMSS supports various lines such as RS232 (V.24 and FAX), X.25, TCP/IP, X.400, and those which are supported can be extended by adding application plug-ins.

The AMSS interface, available in Italian and English and configurable in other languages, is web based and is easy and intuitive to use.

The AMSS includes three types of user positions:
- AMHS User Agent (includes AFTN);
- AFTN intelligent terminal (for AFTN users only);
- position of control and supervision of the system.

The User Agent and the AFTN terminal allow the assisted compilation of commonly used ATS messages (FPL, DEP, ARR, NOTAM etc.). Both positions create a local archive of processed messages, with a minimum capacity of thirty days.

In terms of security, the system has an access mechanism that uses three levels of privilege (Administrator, Supervisor, Operator), which corresponds to a specific web profile. Thus the user only has access to the functions provided by his or her profile.

The control and supervision positions also provide guest type access solely for tracking and viewing logs. Configuration, command and control of the system and the hardware and software resources used (such as disks, LAN, CPU, etc.) can be performed from the control and supervision positions. The monitoring system is automatic and requires no user intervention.