The **NMVP** provides a prototyping and validation environment of the Network Manager systems. It helps validate operational and technical feasibility and assess performance for better Air Traffic Flow and Capacity Management.

The **NMVP** fully replicates NM’s operational systems and can be used in different modes:

- connected to live traffic for shadow or live trials;
- running in stand-alone mode for real-time simulations;
- replay mode for fast-time exercises.

The **NMVP** includes all the Network Manager’s functions and developments as well as, in particular, SESAR operational improvements:

- Short-Term ATFCM Measures (STAM) together with the CDM process and new B2B web services;
- extended Flight Plan;
- improved OAT flight plan (iOAT);
- Advanced Flexible Use of Airspace through B2B web services;
NMVP ARCHITECTURE

The current architecture is compliant with System Wide Information Management (SWIM). It provides features of the NOP B2B Web services and allows interconnection with other platforms. Additional interoperability mechanisms are being developed in the SWIM context.

Dedicated certificates can be delivered for access to the NMVP through the B2B interface.

Network connectivity for data communication exchanges is possible through the Pan-European Network Service (PENS).

NMVP PROTOTYPES

Third-party and EUROCONTROL prototypes have been developed using the NMVP’s B2B web services to support SESAR validation exercises:

- FMP local tools;
- ATFCM slot-swapping tool;
- AOP/NOP inter-operability tool;
- Network Monitoring tool (for Demand Capacity Balancing);
- Meteo HMI.

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