



## Phase 3 Final Specification

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### **Abstract**

This document describes the background and scope of requirements that are needed for the development of the Airport Operations Plan (AOP) into the Network by SWIM (AINS) prototype.

The Technical Specification outlines the system requirements related to the full integration of airport CDM system prototypes into the SWIM environment, including both functional and non-functional requirements.

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## Intellectual Property Rights (foreground)

This deliverable consists of SJU foreground.

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## Executive summary

This document describes the technical requirements for the integration of Airport-CDM (A-CDM) into the SWIM environment in the airport context. This specification continues on from the Technical Specification document defined in Phase 2 and includes new requirements mainly focused on communication between the Network Operations Plan (NOP) and the Airport Operations Plan (AOP0).

The technical requirements included in this version of the document are derived from:

- The requirements defined in the previous version of the 12.06.09 D03 AINS V2-early prototype - Technical Specification [12]. These older requirements were modified in line with updates coming from new inputs generated during development;
- The requirements defined in the previous version of the 12.06.09 D08 Phase 2 Technical Specification (TS), August 2015 [17]. These requirements were similarly modified in line with new updates;
- Operational requirements coming from deliverables in OFA05.01.01 Airport Operations Management (OSD, SPR and INTEROP documents) and
- Operational requirements coming from the operational Primary Project 14.01.04 (SWIM-TI-Yellow Profile Technical Specification).

Among the projects situated in WP12.06, the scope of 12.06.09 is to develop a prototype able to guarantee communication between airports sharing a common set of data updated in real-time through the AINS prototype. In particular, the Phase 3 scope of 12.06.09 is to define a set of requirements able to manage this communication between the AOP and the NOP, addressing information related to arriving flights through the AINS prototype.

Therefore this Technical Specification document consists of a set of requirements identified as the baseline for Phase 2 and 3 developments. Both phases will support planned V3 Validation Exercises:

- EXE-06.03.01-VP-010 for the AINS Phase 2 prototype; and
- EXE-13.02.03-VP-749 for the AINS Phase 3 prototype.

Most of the requirements included in this document have status <Validated>. This status specifies that the requirement has been implemented, verified using the prototype and used to support validation. For these requirements the exercise used to validate the requirement has been documented in the Rationale field. Requirements included in paragraph 3.2 to 3.9 have not been implemented, nor tested, so remain in <In Progress> status.

# 1. Introduction

## 1.1 Purpose of the document

The purpose of this document is to present the operational and functional requirements to integrate A-CDM into the SWIM environment as defined in the PIR Part 1 of project 12.06.09. The document describes all of the Technical Requirements (Functional and Non-Functional) that assure the integration of systems that manage A-CDM processes and Network SWIM. These requirements will be implemented in the 'AOP into Network SWIM' (AINS) prototype. This document will be the reference for the AINS Phase 3 prototype development, also retaining requirements from Phase 2.

The relationship between this Technical Specification and other SESAR deliverables are illustrated in Figure 1. For Phase V3, a bottom-up approach was used in order to allocate requirements to specific components: operational requirements from OFA05.01.01 (Airport Operations Management) were analysed and determined to be within the scope of 12.06.09.

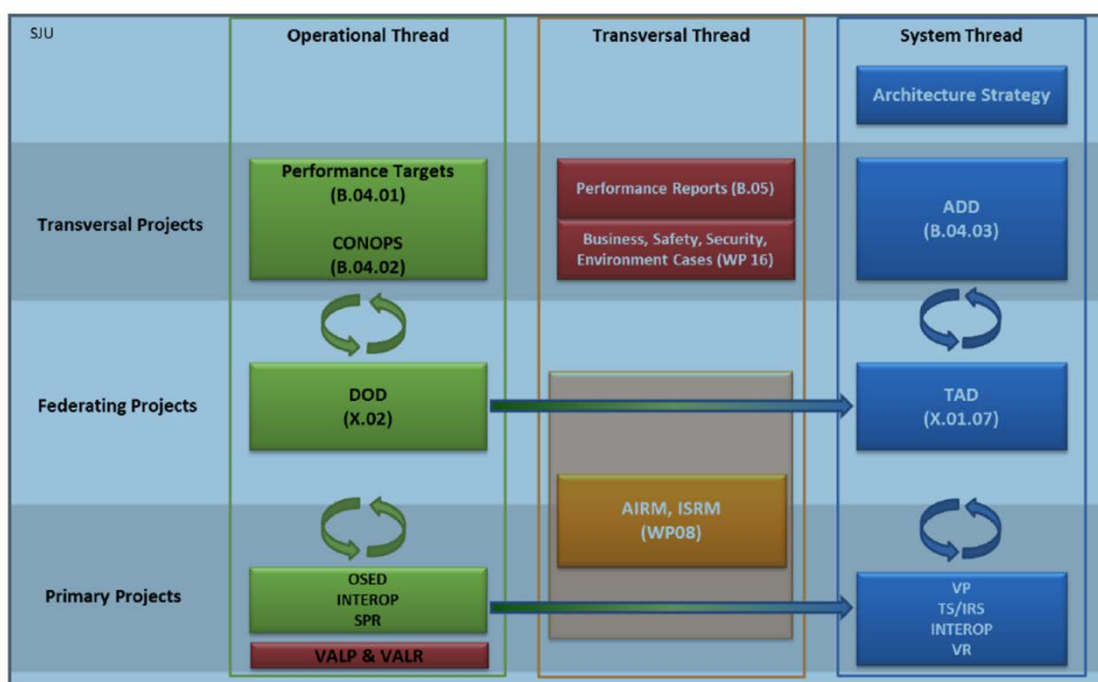


Figure 1: Flow of documentation overview [PMP]

## 1.2 Intended readership

This project takes requirements from many operational projects. The following main inputs have been identified and indicate the intended readership groups:

- Project 07.06.01 Collaborative NOP: for operational requirements related to NOP aspects;
- Airport Operations Management Operational Focus Area (OFA05.01.01);
- Interactions exist with technical projects (within WP12). Particular importance is given to the relationship with 12.01.07 (airport system specification drafting and maintenance) because this project provides the consolidated list of requirements derived from each WP12 project. The baseline generated by 12.01.07 is periodically updated with new requirements during the lifecycle of WP12 projects;



- Guidelines provided by 12.01.07 are used as inputs to refine system requirements in 12.06.09; and
- Inputs from WP12 and other SESAR projects are listed in the 'Inputs from other projects' subsection immediately below.

## 1.3 Inputs from other projects

This project will use as background:

- Completed or on-going programmes where the partners were/are involved;
- System Requirements provided by the expertise of partners involved;
- Inputs coming from other 12.X.Y projects as reported in the 12.06.09 PIR part 1;
  - 12.06.02 The Airport Operations Plan (AOP), decision support tools and conflict detection tools to be integrated in APOC for managing the overall performance of the airport;
  - 12.06.08 Introduction of UDPP and the collaborative departure sequence;
  - 12.06.07 AMAN, SMAN and DMAN fully integrated into CDM processes;
  - 12.06.03 Enhanced MET systems with CDM;
- Inputs coming from other SESAR projects:
  - SWP06.05 Collaborative airport planning;
  - SWP06.06 Airport CDM;
  - WP14 and WP8 for global coordination and management;
  - B.04.03 Development of the Architecture of the Technical Systems within the EAEA;
  - SWP03.03 Tools Development and Acceptance;
  - 06.05.04 Requirements from OSED Edition 3.0 of OFA05.01.01; and
  - 06.05.04 Requirements from INTEROP Edition 2.0 of OFA05.01.01.

**These projects and their deliverables were analysed by 12.06.09 and only the applicable inputs were considered for this document.**

Technical requirements are derived from:

- Operational requirements coming from the deliverables in OFA05.01.01 and
- Operational requirements coming from 14.01.04 (SWIM-TI-Yellow Profile Technical Specification).

The partners use the relevant part of their background and that of their subcontractors in the execution of the project, in compliance with the Terms and Conditions of the SESAR MA and MFA.

## 1.4 Structure of the document

The document is structured as follows:

- **Chapter 1:** Purpose and scope; Requirements definition; Functional Block purpose and overview;
- **Chapter 2:** General Functional Block description;

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- **Chapter 3:** Functional Block capabilities and non-functional requirements;
- **Chapter 4:** Assumptions; and
- **Chapter 5:** Referenced documents.

## 1.5 Requirements Definitions – General Guidance

The requirements reported in this document have been developed according to the SESAR Requirements and V&V Guidelines [2].

This section introduces the general guidance used in the writing of requirements and an overview of the criteria used for the breakdown structure selected by the specification writer and used in following sections of the document.

Each requirement identified in this document is uniquely labelled with respect to other requirements, so it is possible to refer to each one unambiguously.

The naming convention used in this document adheres to the following format:

*[Object\_type]-[Project\_code]-[Document\_code]-[Reference number 1]- [Reference number 2]*

Where:

- [Object\_Type] is fixed text indicating requirement (REQ);
- [Project\_code] is 12.06.09, indicating that the specified requirements are associated to that project;
- [Document\_code]: according to Requirements and V&V guidelines v1.0, the document code is set as TS (indicating Technical Specification);
- Reference number is a sequence of digits split between reference number 1 and reference number 2. In the case of this project, there are different representations for requirements coming from separate phases:
  - For Phase 1, reference number 1 indicates the section where the requirement is located and reference number 2 is a sequential number identifying the requirement in that section;
  - For Phase 2 and 3, reference number 1 is a short label that identifies the content of the requirement and reference number 2 is a sequential number identifying the requirement in each section;
  - For Phase 2 the labels are FInf, OFIS, OFPO and OARC; and
  - For Phase 3 the label is OFPI.

Therefore an identifier generated for requirements derived from Phase 2 appears as:

REQ-12.06.09-TS-3101.0001

Specifically, it refers to a requirement written by 12.06.09, reported inside the Technical Specification document in Section 3.1.1. The number '0001' refers to the first requirement located in Section 3.1.1.

An identifier generated for requirements derived from Phase 3 appears as:

REQ-12.06.09-TS-FInf.0001

This identifier refers to a requirement written by 12.06.09, reported inside the TS document addressing Flight Information (FInf). The number '0001' refers to the first requirement addressing Flight Information.

In order to facilitate importing requirements into a DOORS database, it is recommended that the layout described in [2] is followed; details are provided in the user manual [4].

The layout is illustrated below:

[REQ]

Identifier	
Requirement	
Title	
Status	
Rationale	
Category	
Validation Method	
Verification Method	

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Enabler>	Enabler code	<Full>
<SATISFIES>	<ATMS Requirement>	INTEROP or SPR Requirement Identifier	<Full>
<ALLOCATED TO>	<Functional block>	Functional block Identifier	N/A
<APPLIES TO>	<Operational Focus Area>	Operational Focus Area Identifier	N/A
<CHANGED_BECAUSE_OF>	<Change Order>	Change reference	N/A
<ALLOCATED TO>	<Project>	Project Identifier	N/A

Table 1: Requirements layout

Where:

- **Identifier:** Unique identification, defined above;
- **Requirement:** Text of the requirement, images and tables can be included in this zone by means of OLE objects;
- **Title:** Requirement Title;
- **Status:** Data lifecycle status;
  - <In Progress> An object's initial status is "In Progress";
  - <Deleted> The status "Deleted" is used in subsequent versions to indicate that the object is not considered valid anymore;
  - <Validated> if the validation of the requirement is completed in the frame of SESAR R&D activities (until V3) and the requirement is mature enough to be directly transferred to Industrialisation (V4);
- **Rationale:** An explanation of why the object was written the way it is (it does not justify why the object is there, which is covered by a link). The explanation may include references to other studies;
- **Category:** Requirement category type:
  - <Operational>
  - <Service>
  - <System>
  - <Functional>
  - <Non Functional>
  - <Security>
  - <Safety>
  - <Performance>

- <Interoperability>
- **Validation Method:** This corresponds to the different validation methods for the object and can have the following values:
  - <Dress Rehearsal>
  - <Flight Trial>
  - <Fast time Simulation>
  - <Live Trial>
  - <Real Time simulation>
  - <Shadow Mode>
- **Verification Method:** This corresponds to the different verification methods for the object and can have the following values:
  - <Review of Design>
  - <Analysis>
  - <Inspection>
  - <Test>
- **Free Attributes:** Used to provide additional detail, link or specification about the requirement.

## 1.6 Functional Block purpose

The ground-ground (G-G) communication Functional Block (FB) is directly related to Airport Airside Operations functions and includes communication with:

1. Turn-Round Management functional block
2. Airport Slot Management functional block
3. Performance Management functional block
4. Airport Resources and Facilities Tactical Management functional block
5. Technical Supervision functional block
6. Support Functions functional block
7. Environment Management functional block
8. Airport Operations Centre
9. FOC/WOC
10. Regional NM/AM
11. TWR
12. Regional ATM MET
13. Sub-Regional/National ATM MET
14. APP/ACC
15. Regional AIM
16. National AIM
17. Nav. Infra
18. Time Ref.

The communication associated with G-G communications should allow stakeholders to establish the common situational awareness needed in the AOP's functionality.

The purpose of the development described in this specification is to provide an AINS Prototype to support the following activities:

- Provide an on-going plan of the Airport Transit View (ATV) for the whole airport's operational lifecycle (from long-term to execution phase planning), focused on aircraft processes. The plan is fed by the relevant airport stakeholders (Airport Operator, Airspace

User, Ground Handler, Air Navigation Service Provider and APOC Supervisor) and shared with the Network; and

- Provide the necessary performance monitoring service to support the APOC in the identification and resolution of deviations in planned activities and any potential conflicts in the allocation of airport resources.

## 1.7 Functional Block overview

The figure below depicts the high-level information flow managed by the integration of the AOP into the SWIM environment in the airport context to support G-G Communications.

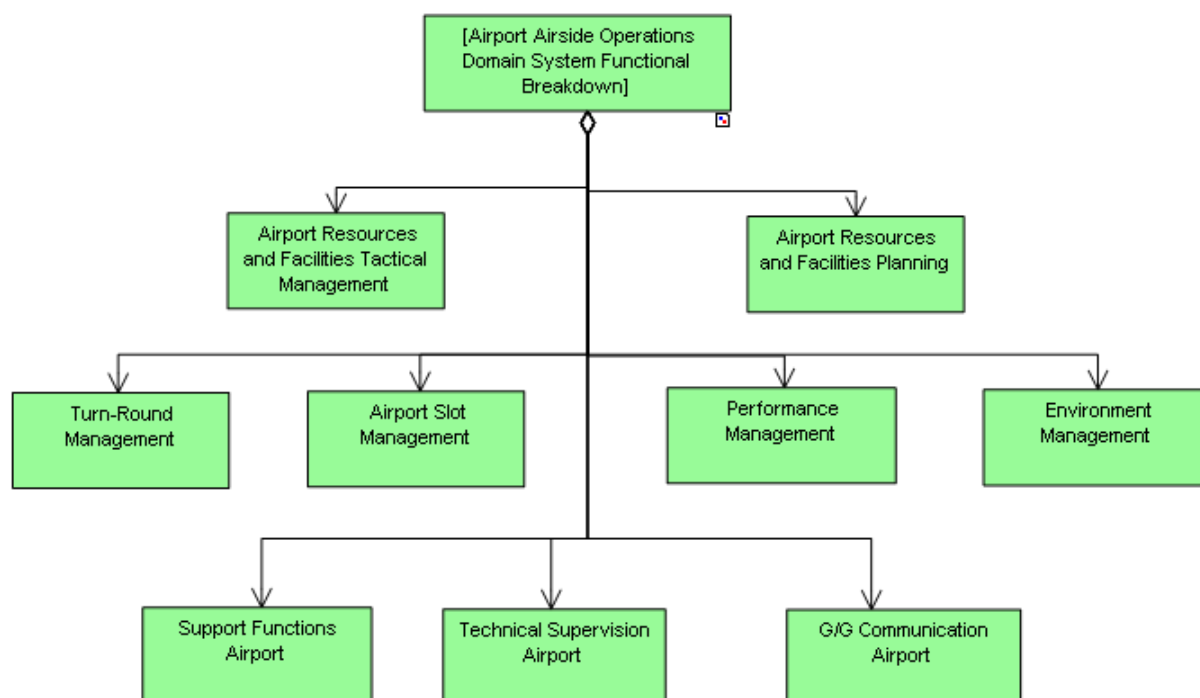


Figure 2: Airport Airside Operations Domain System - Functional Breakdown

The 'Airport Operations Plan Management' Functional Block (FB) includes the AINS prototype components as identified by 12.06.09.

This FB collects all data relevant to the AOP, which is mainly provided by the FOC/WOC, TWR, APP, and Aircraft Domain Systems. Based on the collected data, long, medium and short term AOPs are created and distributed. The AOP Management FB also ensures integration of the AOP and NOP.

The G-G communication is identified as the most important and useful to 12.06.09's scope. It is directly related to Airport Airside Operations functions.

A detailed explanation of this Functional Block's decomposition is provided in Section 2.6.1 of this document.

## 1.8 Glossary of terms

Term	Definition	Source
<b>Airport Transit View (ATV)</b>	<p>An Airframe Airport Transit View (ATV) is the description of the 'visit' of an aircraft to the airport. It consists of three separate sections:</p> <ul style="list-style-type: none"><li>• the final approach and arrival and departure ground section of the inbound flight</li><li>• the turn-round process section in which the inbound and the outbound flights are linked</li><li>• the 'surface-out' ground section and the initial climb segment of the outbound flight</li></ul> <p>In other words, ATV is the local set of data describing the path and operations linked to an aircraft during its 'visit' to the airport. It starts at the Initial approach fix (STAR) and includes the descent, the landing, the surface-in segment, the turn round processes of the Airspace User, the surface-out segment, the take-off and initial climb and ends with the handover to the TMA departure controller from the SID.</p>	ATM Lexicon

## 1.9 Acronyms and Terminology

Term	Definition
a/c	Aircraft
AAST	Airport Arrival Slot Time
A-CDM	Airport Collaborative Decision Making
ADD	Architecture Definition Document
ADEP	Aerodrome of Departure (ICAO)
ADES	Aerodrome of Destination (ICAO)
ADIV	Diversion Airport
ADST	Airport Departure Slot Time
AIBT	Actual In Block Time
ALDT	Actual Landing Time
AIMA	Airport IMPact Assessment Tool
AINS	AOP into Network by SWIM
AINS Prototype	A-CDM into Network SWIM Prototype
AIR (status)	Flight Status - Airbone
AMAN	Arrival Manager
ANSP	Air Navigation Service Provider
AOBT	Actual Off-Block Time
AOC	Airline Operations and Control Center
AOP	Airport Operations Plan
APOC	Airport Operations Centre
ARCCOD	Aircraft Type (IATA)
ARCID	Aircraft Identification
ATM	Air Traffic Management
ATS	Air Traffic Services

Term	Definition
ATOT	Actual Take Off Time
ATV	Airport Transit View
ATYP	Aircraft Type (ICAO)
AXIT	Actual Taxi In Time
AXOT	Actual Taxi Out Time
B2B	Bussiness To Bussiness
CFMU	Central Flow Management Unit
CNX	Flight Status - Cancelled
CTA	Calculated Time of Arrival
CTOT	Calculated Take-Off Time (generated by the Network Manager)
DCB	Demand And Capacity Balance
DEP (status)	Flight Status - Departure
DEP	Aeroprome of Departure (IATA)
DEST	Aerodrome of Destination (IATA)
DIV	Flight Status - Diverted
DMAN	Departure Manager
DPI	Departure Plan Information
EAEA	European ATM Enterprise Architecture
EATMN	European Air Traffic Management Network
EIBT	Estimated In-Block Time
ELDT	Estimated Landing Time
EOBT	Estimated Off-Block Time
EXE	Exercise
EXIT	Estimated Taxi In Time
EXOT	Estimated Taxi Out Time
FB	Functional Block
FIR (status)	Flight Status - Flight Information Region



Term	Definition
FL ID	Flight Identification
FNL	Flight Status - Final
FOC	Flight Operations Centre
FUM	Flight Update Message
HMI	Human Machine Interface
HTTP	Hypertext Transfer Protocol
IATA	International Air Transport Association
IBK	Flight Status - In Block
ICAO	International Civil Aviation Organization
IER	Information Exchange Requirement
IFPLID	Initial Flight Plan Identification
INI (status)	Flight Status - Initial
INTEROP	Interoperability Requirements
LND	Flight Status - Landed
MEP	Message Exchange Pattern
MET	Meteorology
NOP	<ul style="list-style-type: none"> <li>- Network Operations Plan; or</li> <li>- Network Operations Portal</li> </ul>
OBK	Flight Status - Off Block
OFA	Operational Focus Area
OLE	Object Linking and Embedding
OSD	Operational Service and Environment Definition
RDY	Flight Status - Ready
PIR	Project Initiation Reporting
RWYARR	Runway of Arrival
RWYDEP	Runway of Departure
SBT	Shared Business Trajectory

Term	Definition
<b>SCH (Status)</b>	Flight Status - Scheduled
<b>SESAR</b>	Single European Sky ATM Research Programme
<b>SESAR Programme</b>	The programme which defines the Research and Development activities and Projects for the SJU.
<b>SIBT</b>	Scheduled In Block Time
<b>SID</b>	Standard Instrument Departure
<b>SJU</b>	SESAR Joint Undertaking (Agency of the European Commission)
<b>SJU Work Programme</b>	The programme which addresses all activities of the SESAR Joint Undertaking Agency.
<b>SMAN</b>	Surface Manager
<b>SOAP</b>	Simple Object Access Protocol
<b>SPR</b>	Safety and Performance Requirements
<b>SSL</b>	Secure Sockets Layer
<b>STAR</b>	Standard Instrument Arrival
<b>STB</b>	Flight Status - Stand By
<b>SWIM</b>	System Wide Information Management
<b>REG</b>	Registration
<b>TERM</b>	Terminal
<b>TOBT</b>	Target Off-Block Time
<b>TS</b>	Technical Specification
<b>TSAT</b>	Target Start-up Approval Time
<b>TTA</b>	Target Time of Arrival
<b>TTOT</b>	Target Take-off Time
<b>TWR</b>	Tower
<b>UDPP</b>	User Driven Prioritization Process
<b>UTC</b>	Coordinated Universal Time
<b>WOC</b>	Wing Operations Center
<b>WP</b>	Work Package

Term	Definition
XML	Extensible Markup Language

## 2. General Functional Block Description

### 2.1 Context

The European ATM Collaborative Network Operations Plan (NOP) represents a view, at any moment in time, of the expected demand on the ATM Network on a particular day and the resources available across the network, together with a set of agreed actions to accommodate this demand, to mitigate known constraints and to optimise ATM Network performance.

The Airport Operations Plan (AOP) is the information source which will permit airports to be fully integrated into the network planning process and this will be achieved through the appropriate sharing of information content between the AOP and the NOP. The exact relationship between the AOP and the NOP is the focus of the SESAR Primary Project 06.05.01.

The AOP must be updated at any time for any changes produced by the ATM Network that may affect its planning; and similarly any update in the AOP that might be relevant for other information nodes is implemented within the scope of 12.06.09.

For example, if airport demand/capacity information changes in one AOP then this shall be automatically reflected in the NOP; and those changes shall simultaneously update all other AOPs.

The Network Manager ignores how aircraft trajectories are impacted once they have transited through airports (i.e. the knock-on effect is blocked at airports).

For instance, if the AOP of Airport A updates a departure trajectory to reflect a delay due to ground handling processes, the 12.06.09 prototype located at Airport A publishes this change to the NOP via the SWIM network so the Network Manager may decide if a regulation is necessary. In that case, the Network Manager updates the trajectory information via SWIM and the 12.06.09 prototype located at Airport B (e.g. the flight's destination) publishes this trajectory update to Airport B's AOP, which may then assess how the regulation affects the airport's operational planning, and so on.

Every airport system node must be connected to SWIM in the SESAR concept.

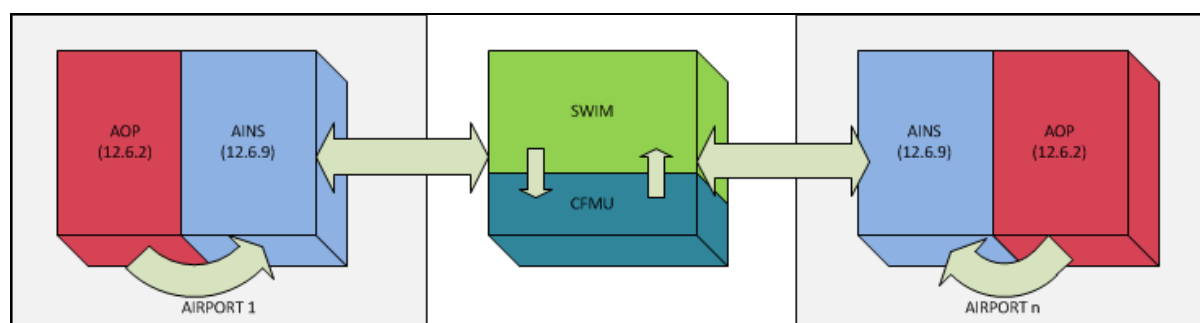


Figure 3: Flow of information between A-CDM Systems

Network Manager services consist of:

- Flight Plan preparation: responsible for validating the Flight Plan and generating valid routes;
- Flight Plan filing: responsible for submitting, updating and cancelling Flight Plans, indicating and querying Flight status.
- Flight Management: responsible for retrieving Flight lists and detailing Flight data;
- Airspace Availability: responsible for requesting, comparing, retrieving and sending Airspace Use Plans;
- Airspace structure: responsible for retrieving information;
- Regulations: responsible for retrieving NM data;

- Slot Management: responsible for assigning Slot swaps between Airspace Users; and
- Airport CDM: responsible of handling Departure Planning Information (DPI) and Flight Update Messages (FUM).

Network Manager functionalities consist of:

- Security;
- Recording;
- Supervision;
- Ensuring high availability; and
- Data validation.

## 2.2 Functional Block modes and states

The FB mode characterises the way the system is operating in respect to the availability of its functions.

The 12.06.09 AINS prototype can be in two different modes:

- Operational: in operational mode, AINS is designed to provide continuous operational communication despite the failure of a function. This is the normal mode of operation of the system; and
- Failed: in case where a significant set of functions necessary for the continuation of the service is not possible, the prototype is considered to be in failure mode.

## 2.3 Major Functional Block capabilities

From the list of services detailed below in Section 2.7 which are responsible for providing the required information, that are related to the components of the system and which must be in accordance with OFA05.01.01 requirements, the most important is **Flight Management** which is responsible for retrieving Flight Lists and detailing Flight Data.

This profile is based on a client/provider pattern where the provider stores the information regarding Flight Plans etc. and consumers submit and request information that is relevant from their perspective.

This profile includes the following enabling functionalities:

Enabling Functionalities	Definition
Security	Includes the protection of confidentiality ensuring that information is accessible only to those with authorized access; provides <u>integrity</u> ensuring that data cannot be modified without being detected and <u>availability</u> ensuring that information is available when it is requested.
Recording	Includes the ability to collect, store and retrieve all relevant information exchanged during communication sessions via SWIM interfaces.
Supervision	Permits the supervision of the service provision. Supervision functionality includes Performance Monitoring, Service Control, Service SLA Compliance Monitoring, alarm systems and statistics.
High Availability	Permits the technical infrastructure (and the ATM services it enables) to maintain an appropriate level of operation.



Enabling Functionalities	Definition
Data Validation	Addresses the ability to check for conformance of information being passed between the provider and consumers.

Table 2: Enabling functionalities - NOP B2B profile

## 2.4 User Characteristics

The User characteristics for 12.06.09 components are the following:

- **Airport Operator:** responsible for the physical condition of the airport's manoeuvring area, apron and the environs of the aerodrome. This includes the assurance that the scale of equipment and facilities provided are adequate for the scheduled activities expected to take place at the airport. The operator must also ensure an effective safety management system is in place. In particular the Airport Operator is responsible for the analysis of airport resources (strategic), planning of gate usage, coordination and monitoring of airport slots with airlines and the national slot coordinator, assignment of stands to arriving flights, management of airport resources on the day of operation (gates, vehicles, stands), analysis of unforeseen aerodrome constraints and crisis management on the day of operation, dissemination of relevant airport information and information sharing between Air Traffic Services (ATS) provider, AOCs, Network Management and aircraft;
- **ANSP:** with the support of the necessary tools/systems and/or services the ANSP is expected to provide information in relation to local delay targets; assessment/confirmation of traffic forecasts taking into account local knowledge; number of available slots; slot configuration/opening scheme per season/day of week/time of day; capacities/monitoring values for each slot/traffic volume per configuration/opening scheme; planned or known special events including dates/times and associated impact on operational performance; details of operational enhancement measures planned, their implementation schedule and associated negative/positive impact on capacity/demand; and details of proposed and confirmed changes to the airspace structure and utilization;
- **Airspace Users:** with the support of the necessary tools/systems and/or services they are expected to provide current information to the system;
- **Ground Handling Agents:** responsible for executing the aircraft turn-round agreements established with Aircraft Operators and the turn-round of all arriving aircraft. Ground Handling covers a complex series of processes that are required to separate an aircraft from its load (passengers, baggage, cargo and mail) on arrival and combine it with its load prior to departure. In particular, ground handling agents are responsible for defining ground operation staffing plans, managing ground handling resource allocation and ground handling activities in accordance with on-time performance objectives;
- **De-icing Agents:** responsible for ensuring that departing aircraft are free of snow and ice and that the holdover effect of the de-icing treatment is still in effect at the end of taxiing and when take-off clearance of the treated aircraft is given. The main interactions of de-icing agents are with the Apron Manager for stand de-icing and with the flight crew and the Tower Ground Controller for remote de-icing;
- **MET Provider:** responsible of providing meteorological forecast data in order to maintain the balance between demand and capacity. This MET data may be real or probabilistic forecasting and its main function is improving accuracy and reliability of MET forecasts in the current format and data content, as much as is possible as a result of physical and mathematical constraints. Probabilistic forecasting as a new methodology appears feasible to enhance the performance of the overall system by adding valuable information about probability and accuracy of events. Extended verification of forecasted MET data improves

calibration of the (probabilistic) forecast system (i.e. comparison between forecast and observations); and

- **Network Operator/Manager:** expected to provide with the support of the necessary tools/systems and/or services information on the NOP's operational targets and objectives; Network Operations planning processes, past operational performance, challenges and opportunities; traffic forecasts; EATMN operational performance requirements; operational needs from different stakeholders; EATMN performance enhancement plans and actions; performance enhancement plans and actions expected to be implemented at the local level, overview of special events with significant ATM impacts, handling of special events from an EATMN perspective, consolidated forecasts, analyses of operational performance of the EATMN, identification of bottlenecks, mitigation of solutions at EATMN and at the local level.

The most important users of the AINS Phase 2 prototype are the **Network Operator/Manager** and the **Airport Operator**.

## 2.5 Operational Scenarios

Descriptions of the operational scenarios are based on the OSED document produced by OFA05.01.01 Airport Operations Management ref.[10][11]. A brief description of these operational scenarios is detailed in this section.

### 1. Operational Scenario Description – Long Term Planning Phase

The introduction and refinement of the elements that will be part of the Airport Performance Framework as well as the AOP content is determined in the long term planning phase by the Steer Airport Performance Service. The Steer Airport Performance Service analyses the information developed and collected from the airport's own master planning processes, so as to identify potential changes in its defined performance framework, and the time when these changes are likely to occur in subsequent season schedules.

The main processes associated with the Steer Airport Performance Service are:

- Determination of the airport's operational configurations;
- Establishment of the Local Airport Performance Framework; and
- Coordinating input from all responsible stakeholders to provide additional AOP content elements into the plan, if altered operations require extended procedures with additional data.

### 2. Operational Scenario Description – Medium/Short Term Planning Phase

#### Medium Term Planning Phase

The Medium Term planning phase addresses the airport plan evolution from the completion of the seasonal slot conference until the day of operation, while the short term planning phase addresses the evolution from one day before operation until and including the execution of operations.

The Medium Term planning phase addresses the evolution from about 6 months before the day of operation until one day before start of operation.

There are two main activities in the scenario:

- The creation of the AOP within the time after the slot conference and before the day of operation. The characteristics of this activity are the global approach to the demand and capacity balance assessment and the treatment of resource allocation in a generic way.
- Development of the AOP, including its subsequent updates, between the creation of the plan until 24 hours before the day of operation. Most of the information is (or should be) known at this time, including the Airport Business Trajectory. At this moment specific resources

allocated for every flight and aircraft can be performed; and the AOP is the reference for execution.

### Short Term Planning Phase

One day before the day of operation the short term planning phase starts. The relevant airport actors (Airport Operator, ANSP, Airspace Users, Ground Handling and De-icing Agents, Network Manager, MET Provider) continue refining the AOP in an iterative manner through to the actual execution of the specific operation. As the AOP is a 'rolling plan' and deviations from this plan will take place during execution, continuous monitoring and updates of the AOP are needed. This information is provided to the Network to update the NOP. Likewise, the NOP will provide information to the AOP in a bilateral exchange of data.

### 3. Operational Scenario Description – Execution Phase

This scenario starts on the day of operations, when Airport Transit Views (ATVs) representing the airport segments of a Business Trajectory planned in the AOP are executed. The scenario ends at the end of the day's scheduled operations when the ATVs planned in the AOP have been executed (e.g. landing/in-block/off-block/take-off of the last flight of the day).

The following Airport Operations Management Services are addressed in this scenario:

- Monitor Airport Performance Service; and
- Manage Airport Performance Service

This scenario describes the management of airport operations as established in the planning phases. It explains how the actual operations are monitored against the agreed plan (AOP) and how deviations are managed through collaborative decision making in the APOC. In addition this scenario describes de-icing processes which are considered as optional.

### 4. Operational Scenario Description – Post Operations Analysis Phase

The Airport Post-Operations Analysis phase is seen as the means to capture performance-based information to examine if agreed local performance targets were achieved and to provide feedback to the planning (both medium and short term) as well as to the actual operations, enabling a learning cycle.

This analysis phase could be derived in a study of the data exchange between the AOP and NOP.

## 2.6 Functional View

### 2.6.1 Functional decomposition

In this section a functional decomposition is provided for AINS, according to OFA05.01.01 and aligned with the ADD, in order to describe and clarify the different functionalities of the prototype and the different modules that comprise the NOP prototype.

The Airport Operations Centre Functional Block (FB) collects all data relevant to the AOP, which is mainly provided by the FOC/WOC, TWR, APP and Aircraft Domain Systems. Based on the collected data long, medium and short term AOPs are created and distributed. The AOP Management FB also ensures integration of the AOP and NOP.

The AOP FB exchanges data with the following FBs (as shown below in Figure 4):

- G-G Communications;
- Airport Operations Plan Performance;
- Technical supervision; and
- Support functions



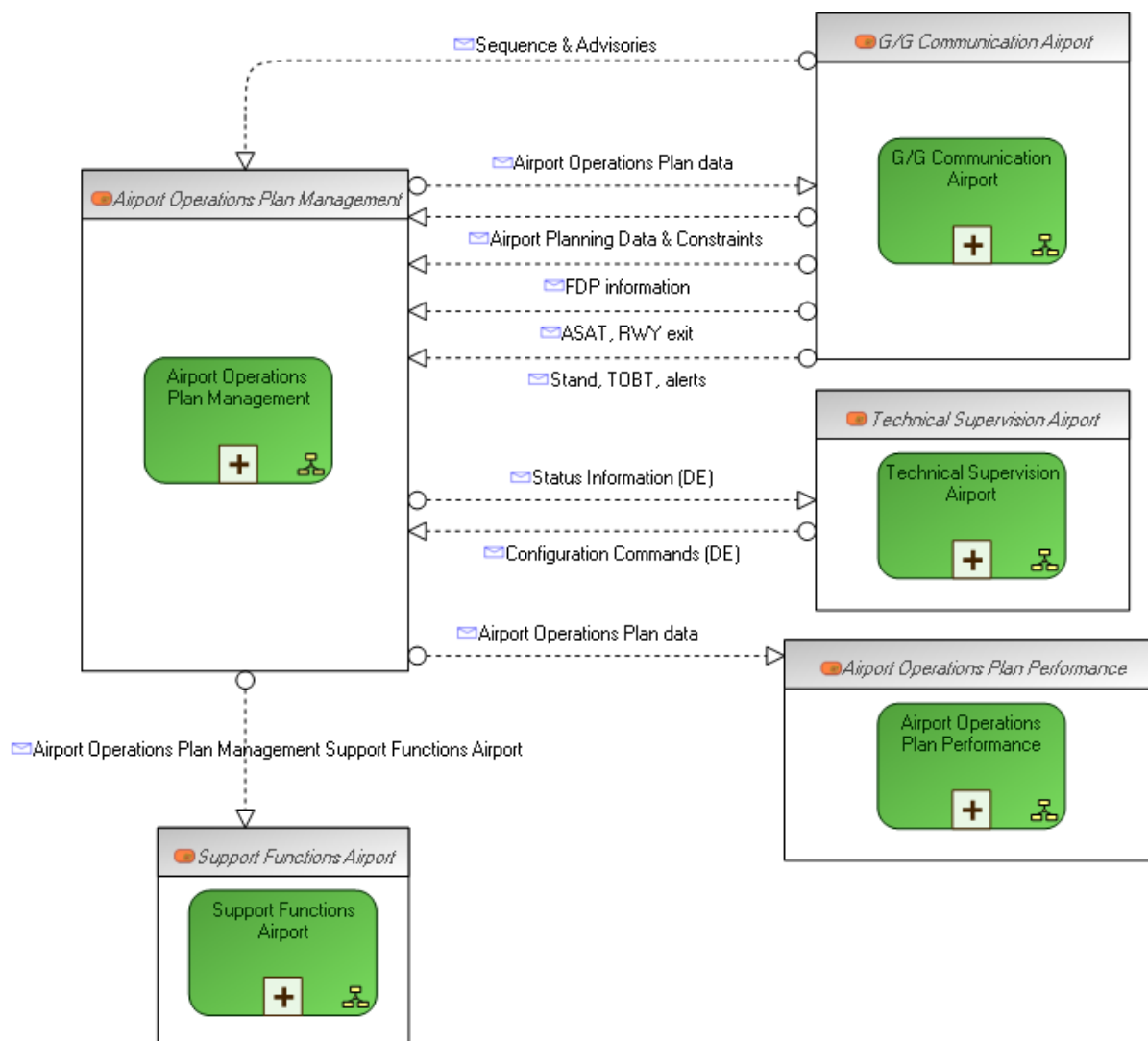


Figure 4: Airport Operations Plan Management Context View

## 2.6.2 Functional analysis

In this section the relationship between each FB is described; their relationship with other interfaces and functions having been described in the previous section. Technical performance is also summarised.

The figure above depicts the modules and decomposition within the functionalities used in the prototype, which have been described in greater detail in previous sections.

The functional analysis below describes the relationships between the different modules and functions described in Figure 4 above.

- NOP Communication: this module is responsible for handling and managing the communication between the NOP and AOP Communication module; and between the NOP Communication module and the NOP. When any update is made in any airport's AOP, this change must be reflected in the Network. The NOP Communication module is responsible for informing other AOPs via SWIM of the same update; and

- AOP Communication: this module is responsible for handling and managing the communication between the AOP Communication module and the AOP; and between the AOP and NOP Communication modules. The AOP must be updated at any time for any changes produced in the ATM Network that may affect its operational planning; and any update in the AOP that is relevant for other AOPs is implemented by the corresponding AOP into the Network via the SWIM prototype. Changes in the AOP at an airport are automatically reflected in the NOP via SWIM using the AOP and NOP Communication modules.

## 2.7 Service View

Drivers for services between the AOP and NOP are provided by projects 06.05.01 (Airport Operations Plan Definition) and 07.06.01 (Collaborative NOP).

06.05.01 provides the following principles:

1. There is no direct interaction between AOPs at different airports; any useful information related to Airport A is transmitted to Airport B via the NOP;
2. AOP data must be fully aligned with the NOP and data sharing between the AOP and NOP must be limited to data needed for each one to work. Necessary distinctions between an AOP stakeholder's private/sensitive data/AOP private data versus AOP and NOP public data must be complied with. The data flow of A-CDM is a crucial component;
3. The core set of data shared between the AOP and NOP will be identical for all airports, with the same minimum accuracy criteria for data quality; and
4. Essential elements of the 4D business/mission trajectory applicable to airports shared between the AOP and NOP are OIOO ('On', 'In', 'Off', 'Out') data, SID, STAR and IAF (CTA).

07.06.01 provides the following principles:

For Step 1 a limited amount of airport information will be integrated in the NOP and available to the Network e.g.:

1. Runway configuration plan exchange is a B2B service already available (in PRE-OPS). A B2B service for capacity updates is already available (in OPS). A B2B service for event updates is not yet available but is included in the concept for SESAR 2020;
2. Weather constraints are planned to be exchanged as a supporting element for capacity updates; and
3. The exchange of default capacity values (expected in normal conditions) and updated capacity values reflecting capacity reductions will improve capacity planning. An accurate picture of departures from the airport will provide a better, more accurate demand picture.

08.03.10 provides the NetworkOperationPlan Service. This supplies the data common to the Network Operations Plan (NOP) and the Airport Operations Plan (AOP) to the airport in order to synchronize the data and maintain a common view of the overall network demand. The publication consists of limited flight data supplied as part of departure and arrival lists.

## 3. Functional block Functional and non-Functional Requirements

### 3.1 Capabilities

This section contains the functional requirements allocated to the AINS Prototype. According to the Phase 3 scope of the prototype, the data exchanged from the NOP to AOP communication modules and vice versa are taken into account.

#### 3.1.1 Functional Requirements

[REQ]

Identifier	REQ-12.06.09-TS-3101.0001
Requirement	The AINS system shall manage all the communications from NOP (ATV Forwarding to Airport) to AOP
Title	NOP to AOP communication management
Status	<Validated>
Rationale	The AINS system is responsible of communication from NOP and AOP and vice versa. This requirement has not been explicitly included in the verification or validation exercises done for this prototype, but can be considered as Verified and Validated, because the validated requirements of paragraph 3.1.2 implies that this generic requirement has been verified and validated too
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
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<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-3101.0002
Requirement	The AINS system shall forward to the AOP the information received by NOP (ATV forwarding to Airport).
Title	NOP to AOP communication forwarding
Status	<Validated>
Rationale	The AINS system is responsible to forward data available on the ATM Network to Airport systems This requirement has not been explicitly included in the verification or validation exercises done for this prototype, but can be considered as Verified and Validated, because the validated requirements of paragraph 3.1.2 implies that this generic requirement has been verified and validated too
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-PERF.0102	N/A

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<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

## 3.1.2 Information Exchange

### 3.1.2.1 General Information Process

#### 3.1.2.1.1 Error Handling

[REQ]

Identifier	REQ-12.06.09-TS-GeIn.0037
Requirement	The AINS system shall log the timestamp (UTC and local) for each invalid message received from NOP.
Title	Error Handling Timestamp
Status	<Validated>
Rationale	<p>The requirement has been written in this way to specify the AINS Error Handling Process.</p> <p>This requirement has been verified. This requirement has been validated in the following validation Exercises:                      EXE-013: Validation of the Monitor and Manage Airport Performance Services Extended to the Aiport Processes.                      EXE-549: Integration of landside process information into the AOP.                      EXE-010: Integrated Validation of the DCB Monitoring &amp; Management Process.                      EXE-757: APOC Performance Monitoring &amp; Management.</p>
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
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<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLTP.0021	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-GeIn.0137
Requirement	The AINS system shall log the timestamp (UTC and local) for each invalid message received from AOP.
Title	Error Handling Timestamp
Status	<Validated>
Rationale	<p>The requirement has been written in this way to specify the AINS Error Handling Process.</p> <p>This requirement has been verified. This requirement has been validated in the following validation Exercises:                      EXE-013: Validation of the Monitor and Manage Airport Performance Services Extended to the Aiport Processes.                      EXE-549: Integration of landside process information into the AOP.                      EXE-010: Integrated Validation of the DCB Monitoring &amp; Management Process.                      EXE-757: APOC Performance Monitoring &amp; Management.</p>

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Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0021	<Full>
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<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-GeIn.0038
Requirement	The AINS system shall log the source system for each invalid message received from NOP.
Title	Error Handling Source System
Status	<Validated>
Rationale	The requirement has been written in this way to specify the AINS Error Handling Process This requirement has been verified. This requirement has been validated in the following validation Exercises: EXE-013: Validation of the Monitor and Manage Airport Performance Services Extended to the Aiport Processes. EXE-549: Integration of landside process information into the AOP. EXE-010: Integrated Validation of the DCB Monitoring & Management Process. EXE-757: APOC Performance Monitoring & Management.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0021	<Full>
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<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-GeIn.0138
Requirement	The AINS system shall log the source system for each invalid message received from AOP.
Title	Error Handling Source System
Status	<Validated>
Rationale	The requirement has been written in this way to specify the AINS Error Handling Process This requirement has been verified. This requirement has been validated in the following validation Exercises: EXE-013: Validation of the Monitor and Manage Airport Performance Services Extended to the Aiport Processes. EXE-549: Integration of landside process information into the AOP. EXE-010: Integrated Validation of the DCB Monitoring & Management Process. EXE-757: APOC Performance Monitoring & Management.

Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
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<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-GeIn.0046
Requirement	The AINS system shall log the dismiss Information Element for each invalid message received from NOP.
Title	Error Handling Dismiss Information Element
Status	<Validated>
Rationale	The requirement has been written in this way to specify the AINS Error Handling Process This requirement has been verified. This requirement has been validated in the following validation Exercises: EXE-013: Validation of the Monitor and Manage Airport Performance Services Extended to the Aiport Processes. EXE-549: Integration of landside process information into the AOP. EXE-010: Integrated Validation of the DCB Monitoring & Management Process. EXE-757: APOC Performance Monitoring & Management.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
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<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-GeIn.0146
Requirement	The AINS system shall log the dismiss Information Element for each invalid message received from AOP.
Title	Error Handling Dismiss Information Element
Status	<Validated>
Rationale	The requirement has been written in this way to specify the AINS Error Handling Process This requirement has been verified. This requirement has been validated in the following validation Exercises: EXE-013: Validation of the Monitor and Manage Airport Performance Services Extended to the Aiport Processes. EXE-549: Integration of landside process information into the AOP. EXE-010: Integrated Validation of the DCB Monitoring & Management Process. EXE-757: APOC Performance Monitoring & Management.
Category	<Functional>



Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
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<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-GeIn.0047
Requirement	The AINS system shall log the reason to dismiss an Information Element (incorrect format, incorrect identification code, lack of information, etc.) for each invalid message received from NOP.
Title	Error Handling Dismiss Reason
Status	<Validated>
Rationale	The requirement has been written in this way to specify the AINS Error Handling Process This requirement has been verified. This requirement has been validated in the following validation Exercises: EXE-013: Validation of the Monitor and Manage Airport Performance Services Extended to the Airport Processes. EXE-549: Integration of landside process information into the AOP. EXE-010: Integrated Validation of the DCB Monitoring & Management Process. EXE-757: APOC Performance Monitoring & Management.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
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<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-GeIn.0147
Requirement	The AINS system shall log the reason to dismiss an Information Element (incorrect format, incorrect identification code, lack of information, etc.) for each invalid message received from NOP or AOP.
Title	Error Handling Dismiss Reason
Status	<Validated>
Rationale	The requirement has been written in this way to specify the AINS Error Handling Process This requirement has been verified. This requirement has been validated in the following validation Exercises: EXE-013: Validation of the Monitor and Manage Airport Performance Services Extended to the Airport Processes. EXE-549: Integration of landside process information into the AOP. EXE-010: Integrated Validation of the DCB Monitoring & Management Process.

	EXE-757: APOC Performance Monitoring & Management.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
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<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-GeIn.0048
Requirement	The AINS system shall log a possible solution and the reprocess for each invalid message received from NOP.
Title	Error Handling Possible solution
Status	<Validated>
Rationale	The requirement has been written in this way to specify the AINS Error Handling Process This requirement has been verified. This requirement has been validated in the following validation Exercises: EXE-013: Validation of the Monitor and Manage Airport Performance Services Extended to the Airport Processes. EXE-549: Integration of landside process information into the AOP. EXE-010: Integrated Validation of the DCB Monitoring & Management Process. EXE-757: APOC Performance Monitoring & Management.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
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<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
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<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-GeIn.0048
Requirement	The AINS system shall log a possible solution and the reprocess for each invalid message received from AOP.
Title	Error Handling Possible solution
Status	<Validated>
Rationale	The requirement has been written in this way to specify the AINS Error Handling Process This requirement has been verified. This requirement has been validated in the following validation Exercises: EXE-013: Validation of the Monitor and Manage Airport Performance Services Extended to the Airport Processes. EXE-549: Integration of landside process information into the AOP. EXE-010: Integrated Validation of the DCB Monitoring & Management



	Process. EXE-757: APOC Performance Monitoring & Management.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0021	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLTP.0021	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

### 3.1.2.1.2 Data Logging

[REQ]

Identifier	REQ-12.06.09-TS-GeIn.0009
Requirement	The AINS system shall log the timestamp (UTC and local) for each message received from NOP or AOP.
Title	Data Loggin Time Stamp
Status	<Validated>
Rationale	The requirement has been written in this way to specify the AINS Data Logging Process. This requirement has been verified. This requirement has been validated in the following validation Exercises: EXE-609: Dynamically update the NOP/AOP using target time of Arrival (TTA) procedure. EXE-013: Validation of the Monitor and Manage Airport Performance Services Extended to the Aiport Processes. EXE-549: Integration of landside process information into the AOP. EXE-010: Integrated Validation of the DCB Monitoring & Management Process. EXE-757: APOC Performance Monitoring & Management.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0021	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLTP.0021	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-GeIn.0025
Requirement	The AINS system shall log the Information Element Value for each message received from NOP or AOP.
Title	Data Logging Information Element Value
Status	<Validated>
Rationale	The requirement has been written in this way to specify the AINS Data

	<p>Logging Process</p> <p>This requirement has been validated in the following validation Exercises: EXE-609: Dynamically update the NOP/AOP using target time of Arrival (TTA) procedure. EXE-013: Validation of the Monitor and Manage Airport Performance Services Extended to the Airport Processes. EXE-549: Integration of landside process information into the AOP. EXE-010: Integrated Validation of the DCB Monitoring &amp; Management Process. EXE-757: APOC Performance Monitoring &amp; Management.</p>
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0021	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLTP.0021	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

[REQ]

Identifier	REQ-12.06.09-TS-GeIn.0021
Requirement	The AINS system shall log the Information Element name for each message received from NOP or AOP.
Title	Data Logging Information Element name
Status	<Validated>
Rationale	<p>The requirement has been written in this way to specify the AINS Data Logging Process</p> <p>This requirement has been validated in the following validation Exercises: EXE-609: Dynamically update the NOP/AOP using target time of Arrival (TTA) procedure. EXE-013: Validation of the Monitor and Manage Airport Performance Services Extended to the Airport Processes. EXE-549: Integration of landside process information into the AOP. EXE-010: Integrated Validation of the DCB Monitoring &amp; Management Process. EXE-757: APOC Performance Monitoring &amp; Management.</p>
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0021	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLTP.0021	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-GeIn.0011
Requirement	The AINS system shall log the source system for each message received from NOP or AOP.

Title	Data Loggin Source System
Status	<Validated>
Rationale	The requirement has been written in this way to specify the AINS Data Logging Process. EXE-609: Dynamically update the NOP/AOP using target time of Arrival (TTA) procedure. EXE-013: Validation of the Monitor and Manage Airport Performance Services Extended to the Aiport Processes. EXE-549: Integration of landside process information into the AOP. EXE-010: Integrated Validation of the DCB Monitoring & Management Process. EXE-757: APOC Performance Monitoring & Management.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0021	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLTP.0021	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

### 3.1.2.2 NOP to AINS (reception)

#### 3.1.2.2.1 Flight Progress Information

##### 3.1.2.2.1.1 Inbound

[REQ]

Identifier	REQ-12.06.09-TS-FInf.0115
Requirement	The AINS system shall be able to receive the ADIV of each arrival flight from NOP.
Title	Airport of Diversion (ICAO) Reception
Status	<Validated>
Rationale	The AINS system is responsible for notifying the data received from NOP and to forward them to the AOP. The ADIV is one of the data that the AINS system has to exchange. Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from NOP and forwarding.to AOP. This requirement has been validated in the following validation Exercises: EXE-013: Validation of the Monitor and Manage Airport Performance Services Extended to the Aiport Processes. EXE-549: Integration of landside process information into the AOP. EXE-010: Integrated Validation of the DCB Monitoring & Management Process. EXE-757: APOC Performance Monitoring & Management.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange	IER-06.05.04-OSED-FLTP.0623	<Full>

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	Requirement>		
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-3121.0001
Requirement	The AINS system shall receive the ICAO callsign data from NOP for each arrival flight.
Title	ICAO callsign data from NOP
Status	<Validated>
Rationale	<p>The AINS system is responsible of to notify the update data received from an AOP in a specific Airport and to forward them the AOPs through NOP to the others Airport connected to SWIM network. The ICAO Callsign is one the data that the AINS system has to be exchange.</p> <p>This requirement has been created from a common requirement for arrivals and departures. Due to the new indexation, some requirements had been defined specifically for arrivals and departures..</p> <p>Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from NOP and forwarding.to AOP.</p> <p>This requirement has been validated in the following validation Exercises: EXE-609: Dynamically update the NOP/AOP using target time of Arrival (TTA) procedure. EXE-013: Validation of the Monitor and Manage Airport Performance Services Extended to the Aiport Processes. EXE-549: Integration of landside process information into the AOP. EXE-010: Integrated Validation of the DCB Monitoring &amp; Management Process. EXE-757: APOC Performance Monitoring &amp; Management.</p>
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>
Remarks	The requirements whose traceability was based on an old document, the trace has been updated for the current Phase with an OSED Ed.3 IER.

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0005	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLID.0005	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-3122.0001
Requirement	The AINS system shall receive the a/c registration (REG) data from NOP
Title	a/c registration data from NOP
Status	<Validated>
Rationale	<p>The AINS system is responsible of to notify the update data received from an AOP in a specific Airport and to forward them the AOPs through NOP to the others Airport connected to SWIM network.</p> <p>The a/c registration is one the data that the AINS system has to be exchange in order to update Business trajectory</p> <p>This requirement has been created from a common requirement for arrivals and departures. Due to the new indexation, some requirements had been</p>

	<p>defined specifically for arrivals and departures. Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from NOP and forwarding.to AOP.. This requirement has been validated in the following validation Exercises: EXE-609: Dynamically update the NOP/AOP using target time of Arrival (TTA) procedure. EXE-013: Validation of the Monitor and Manage Airport Performance Services Extended to the Aiport Processes. EXE-549: Integration of landside process information into the AOP. EXE-010: Integrated Validation of the DCB Monitoring &amp; Management Process. EXE-757: APOC Performance Monitoring &amp; Management.</p>
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>
Remarks	The requirements whose traceability was based on an old document, the trace has been updated for the current Phase with an OSED Ed.3 IER.

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0111	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLID.0111	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-3123.0001
Requirement	The AINS system shall receive the ICAO a/c type (ATYP) data from NOP
Title	ICAO a/c type data from NOP
Status	<Validated>
Rationale	<p>The AINS system is responsible of to notify the update data received from an AOP in a specific Airport and to forward them the AOPs through NOP to the others Airport connected to SWIM network. The ICAO a/c type is one the data that the AINS system has to be exchange in order to identify the aircraft type linked to the Business trajectory.</p> <p>This requirement has been created from a common requirement for arrivals and departures. Due to the new indexation, some requirements had been defined specifically for arrivals and departures.. Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from NOP and forwarding.to AOP.. This requirement has been validated in the following validation Exercises: EXE-609: Dynamically update the NOP/AOP using target time of Arrival (TTA) procedure. EXE-013: Validation of the Monitor and Manage Airport Performance Services Extended to the Aiport Processes. EXE-549: Integration of landside process information into the AOP. EXE-010: Integrated Validation of the DCB Monitoring &amp; Management Process. EXE-757: APOC Performance Monitoring &amp; Management..</p>
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

Remarks	The requirements whose traceability was based on an old document, the trace has been updated for the current Phase with an OSED Ed.3 IER.
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[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0113	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLTP.0113	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-3124.0001
Requirement	The AINS system shall receive origin airport ICAO code (ADEP) data from NOP
Title	Origin airport ICAO code (ADEP) data from NOP
Status	<Validated>
Rationale	<p>The AINS system is responsible of to notify the update data received from an AOP in a specific Airport and to forward them the AOPs through NOP to the others Airport connected to SWIM network.</p> <p>The origin airport ICAO code is one the data that the AINS system has to be exchange in order to identify the origin airport linked to the Business Trajectory.</p> <p>This requirement has been created from a common requirement for arrivals and departures. Due to the new indexation, some requirements had been defined specifically for arrivals and departures.</p> <p>Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from NOP and forwarding.to AOP.</p> <p>This requirement has been validated in the following validation Exercises:</p> <p>EXE-609: Dynamically update the NOP/AOP using target time of Arrival (TTA) procedure.</p> <p>EXE-013: Validation of the Monitor and Manage Airport Performance Services Extended to the Aiport Processes.</p> <p>EXE-549: Integration of landside process information into the AOP.</p> <p>EXE-010: Integrated Validation of the DCB Monitoring &amp; Management Process.</p> <p>EXE-757: APOC Performance Monitoring &amp; Management.</p>
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>
Remarks	The requirements whose traceability was based on an old document, the trace has been updated for the current Phase with an OSED Ed.3 IER.

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0201	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLTP.0201	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-3125.0001
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Requirement	The AINS system shall receive destination airport ICAO code data from NOP
Title	Destination airport ICAO code (ADES) data from NOP
Status	<Validated>
Rationale	<p>The AINS system is responsible of to notify the update data received from an AOP in a specific Airport and to forward them the AOPs through NOP to the others Airport connected to SWIM network.</p> <p>The destination airport ICAO code is one the data that the AINS system has to be exchange in order to identify the airport of destination linked to Business trajectory</p> <p>This requirement has been created from a common requirement for arrivals and departures. Due to the new indexation, some requirements had been defined specifically for arrivals and departures.</p> <p>Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from NOP and forwarding.to AOP..</p> <p>This requirement has been validated in the following validation Exercises: EXE-609: Dynamically update the NOP/AOP using target time of Arrival (TTA) procedure. EXE-013: Validation of the Monitor and Manage Airport Performance Services Extended to the Aiport Processes. EXE-549: Integration of landside process information into the AOP. EXE-010: Integrated Validation of the DCB Monitoring &amp; Management Process. EXE-757: APOC Performance Monitoring &amp; Management.</p>
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>
Remarks	The requirements whose traceability was based on an old document, the trace has been updated for the current Phase with an OSED Ed.3 IER.

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0202	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLTP.0202	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-3126.0001
Requirement	The AINS system shall receive the ELDT data from NOP
Title	ELDT data from NOP
Status	<Validated>
Rationale	<p>The AINS system is responsible of to notify the update data received from an AOP in a specific Airport and to forward them the AOPs through NOP to the others Airport connected to SWIM network.</p> <p>The ELDT is one the data that the AINS system has to be exchange in order to estimate the aircraft landing time.</p> <p>This requirement has been created from a common requirement for arrivals and departures. Due to the new indexation, some requirements had been defined specifically for arrivals and departures</p> <p>Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from NOP and forwarding.to AOP.</p>

	This requirement has been validated in the following validation Exercises: EXE-609: Dynamically update the NOP/AOP using target time of Arrival (TTA) procedure. EXE-013: Validation of the Monitor and Manage Airport Performance Services Extended to the Aiport Processes. EXE-549: Integration of landside process information into the AOP. EXE-010: Integrated Validation of the DCB Monitoring & Management Process. EXE-757: APOC Performance Monitoring & Management..
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>
Remarks	The requirements whose traceability was based on an old document, the trace has been updated for the current Phase with an OSED Ed.3 IER

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0201	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLTP.0201	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-3129.0001
Requirement	The AINS system shall receive the TTA data from NOP
Title	TTA data from NOP
Status	<Validated>
Rationale	The AINS system is responsible of to notify the update data received from an AOP in a specific Airport and to forward them the AOPs through NOP to the others Airport connected to SWIM network. The TTA is one the data that the AINS system has to be exchange in order to calculate the Target Time of arrival at a fix expected in the Business trajectory  This requirement has been created from a common requirement for arrivals and departures. Due to the new indexation, some requirements had been defined specifically for arrivals and departures. Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from NOP and forwarding.to AOP. This requirement has been validated in the following validation Exercises: EXE-609: Dynamically update the NOP/AOP using target time of Arrival (TTA) procedure.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>
Remarks	The requirements whose traceability was based on an old document, the trace has been updated for the current Phase with an OSED Ed.3 IER

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0101	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLTP.0101	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A



<ALLOCATED TO>	<Project>	12.06.09	N/A
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[REQ]

Identifier	REQ-12.06.09-TS-31210.0001
Requirement	The AINS system shall receive the CTA data from NOP
Title	CTA data from NOP
Status	<Validated>
Rationale	<p>The AINS system is responsible of to notify the update data received from an AOP in a specific Airport and to forward them the AOPs through NOP to the others Airport connected to SWIM network.</p> <p>The CTA is one the data that the AINS system has to be exchange in order to calculate the Time of arrival at hand over fix in the Business trajectory</p> <p>This requirement has been created from a common requirement for arrivals and departures. Due to the new indexation, some requirements had been defined specifically for arrivals and departures..</p> <p>This requirement has been validated in the following validation Exercises: EXE-609: Dynamically update the NOP/AOP using target time of Arrival (TTA) procedure.</p>
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>
Remarks	The requirements whose traceability was based on an old document, the trace has been updated for the current Phase with an OSED Ed.3 IER

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0103	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLTP.0103	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-FInf.0409
Requirement	The AINS system shall be able to receive the IFPLID of each flight from NOP.
Title	Initial Flight Plan Identifier Reception
Status	<Validated>
Rationale	<p>The AINS system is responsible for notifying the data received from NOP and to forward them to the AOP.</p> <p>The IFPLID is one of the data that the AINS system has to exchange.</p> <p>This requirement has been created from a common requirement for arrivals and departures. Due to the new indexation, some requirements had been defined specifically for arrivals and departures.</p> <p>Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from NOP and forwarding.to AOP.</p> <p>This requirement has been validated in the following validation Exercises: EXE-609: Dynamically update the NOP/AOP using target time of Arrival (TTA) procedure. EXE-013: Validation of the Monitor and Manage Airport Performance Services Extended to the Aiport Processes. EXE-549: Integration of landside process information into the AOP. EXE-010: Integrated Validation of the DCB Monitoring &amp; Management Process.</p>

	EXE-757: APOC Performance Monitoring & Management..
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0010	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLID.0010	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

### 3.1.2.2.1.2 Outbound

[REQ]

Identifier	REQ-12.06.09-TS-3121.0101
Requirement	The AINS system shall receive the ICAO callsign data for each departure flight from NOP
Title	ICAO callsign data from NOP
Status	<Validated>
Rationale	<p>The AINS system is responsible of to notify the update data received from an AOP in a specific Airport and to forward them the AOPs through NOP to the others Airport connected to SWIM network. The ICAO Callsign is one the data that the AINS system has to be exchange.</p> <p>This requirement has been created from a common requirement for arrivals and departures. Due to the new indexation, some requirements had been defined specifically for arrivals and departures.</p> <p>This requirement has been validated in the following validation Exercises:                      EXE-609: Dynamically update the NOP/AOP using target time of Arrival (TTA) procedure.                      EXE-013: Validation of the Monitor and Manage Airport Performance Services Extended to the Aiport Processes.                      EXE-549: Integration of landside process information into the AOP.                      EXE-010: Integrated Validation of the DCB Monitoring &amp; Management Process.                      EXE-757: APOC Performance Monitoring &amp; Management.</p>
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>
Remarks	The requirements whose traceability was based on an old document, the trace has been updated for the current Phase with an OSED Ed.3 IER.

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0005	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLID.0005	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

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Identifier	REQ-12.06.09-TS-3122.0101
Requirement	The AINS system shall receive the a/c registration data for each departure flight from NOP
Title	a/c registration data from NOP
Status	<Validated>
Rationale	<p>The AINS system is responsible of to notify the update data received from an AOP in a specific Airport and to forward them the AOPs through NOP to the others Airport connected to SWIM network.</p> <p>The a/c registration is one the data that the AINS system has to be exchange in order to update Business trajectory.</p> <p>This requirement has been created from a common requirement for arrivals and departures. Due to the new indexation, some requirements had been defined specifically for arrivals and departures.</p> <p>This requirement has been validated in the following validation Exercises: EXE-609: Dynamically update the NOP/AOP using target time of Arrival (TTA) procedure. EXE-013: Validation of the Monitor and Manage Airport Performance Services Extended to the Aiport Processes. EXE-549: Integration of landside process information into the AOP. EXE-010: Integrated Validation of the DCB Monitoring &amp; Management Process. EXE-757: APOC Performance Monitoring &amp; Management.</p>
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>
Remarks	The requirements whose traceability was based on an old document, the trace has been updated for the current Phase with an OSED Ed.3 IER.

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0111	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLID.0111	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-3123.0101
Requirement	The AINS system shall receive the ICAO a/c type (ATYP) data data for each departure flight from NOP
Title	ICAO a/c type data from NOP
Status	<Validated>
Rationale	<p>The AINS system is responsible of to notify the update data received from an AOP in a specific Airport and to forward them the AOPs through NOP to the others Airport connected to SWIM network.</p> <p>The ICAO a/c type is one the data that the AINS system has to be exchange in order to identify the aircraft type linked to the Business trajectory.</p> <p>This requirement has been created from a common requirement for arrivals and departures. Due to the new indexation, some requirements had been defined specifically for arrivals and departures..</p> <p>This requirement has been validated in the following validation Exercises: EXE-609: Dynamically update the NOP/AOP using target time of Arrival (TTA) procedure. EXE-013: Validation of the Monitor and Manage Airport Performance Services Extended to the Aiport Processes. EXE-549: Integration of landside process information into the AOP. EXE-010: Integrated Validation of the DCB Monitoring &amp; Management</p>

	Process. EXE-757: APOC Performance Monitoring & Management.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>
Remarks	The requirements whose traceability was based on an old document, the trace has been updated for the current Phase with an OSED Ed.3 IER.

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0113	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLID.0113	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-3124.0101
Requirement	The AINS system shall receive origin airport ICAO code data data for each departure flight from NOP
Title	Origin airport ICAO code (ADEP) data from NOP
Status	<Validated>
Rationale	<p>The AINS system is responsible of to notify the update data received from an AOP in a specific Airport and to forward them the AOPs through NOP to the others Airport connected to SWIM network.</p> <p>The origin airport ICAO code is one the data that the AINS system has to be exchange in order to identify the origin airport linked to the Business Trajectory</p> <p>This requirement has been created from a common requirement for arrivals and departures. Due to the new indexation, some requirements had been defined specifically for arrivals and departures. This requirement has been validated in the following validation Exercises:</p> <p>EXE-609: Dynamically update the NOP/AOP using target time of Arrival (TTA) procedure.</p> <p>EXE-013: Validation of the Monitor and Manage Airport Performance Services Extended to the Aiport Processes.</p> <p>EXE-549: Integration of landside process information into the AOP.</p> <p>EXE-010: Integrated Validation of the DCB Monitoring &amp; Management Process.</p> <p>EXE-757: APOC Performance Monitoring &amp; Management..</p>
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>
Remarks	The requirements whose traceability was based on an old document, the trace has been updated for the current Phase with an OSED Ed.3 IER

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0201	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLID.0201	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-3125.0101
Requirement	The AINS system shall receive destination airport ICAO code data data for each departure flight from NOP
Title	Destination airport ICAO code (ADES) data from NOP
Status	<Validated>
Rationale	<p>The AINS system is responsible of to notify the update data received from an AOP in a specific Airport and to forward them the AOPs through NOP to the others Airport connected to SWIM network.</p> <p>The destination airport ICAO code is one the data that the AINS system has to be exchange in order to identify the airport of destination linked to Business trajectory</p> <p>This requirement has been created from a common requirement for arrivals and departures. Due to the new indexation, some requirements had been defined specifically for arrivals and departures. This requirement has been validated in the following validation Exercises:</p> <p>EXE-609: Dynamically update the NOP/AOP using target time of Arrival (TTA) procedure.</p> <p>EXE-013: Validation of the Monitor and Manage Airport Performance Services Extended to the Aiport Processes.</p> <p>EXE-549: Integration of landside process information into the AOP.</p> <p>EXE-010: Integrated Validation of the DCB Monitoring &amp; Management Process.</p> <p>EXE-757: APOC Performance Monitoring &amp; Management..</p>
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>
Remarks	The requirements whose traceability was based on an old document, the trace has been updated for the current Phase with an OSED Ed.3 IER.

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0202	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLID.0202	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-FInf.0509
Requirement	The AINS system shall be able to receive the IFPLID of each flight from NOP .
Title	Initial Flight Plan Identifier Reception
Status	<Validated>
Rationale	<p>The AINS system is responsible for notifying the data received from NOP to the AOP.</p> <p>The IFPLID is one of the data that the AINS system has to exchange.</p> <p>This requirement has been created from a common requirement for arrivals and departures. Due to the new indexation, some requirements had been defined specifically for arrivals and departures.</p> <p>Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from NOP and forwarding.to AOP.</p> <p>This requirement has been validated in the following validation Exercises:</p> <p>EXE-609: Dynamically update the NOP/AOP using target time of Arrival (TTA) procedure.</p> <p>EXE-013: Validation of the Monitor and Manage Airport Performance</p>

	Services Extended to the Aiport Processes. EXE-549: Integration of landside process information into the AOP. EXE-010: Integrated Validation of the DCB Monitoring & Management Process. EXE-757: APOC Performance Monitoring & Management..
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0010	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLID.0010	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-3127.0001
Requirement	The AINS system shall receive the EOBT data from NOP
Title	EOBT data from NOP
Status	<Validated>
Rationale	The AINS system is responsible of to notify the update data received from an AOP in a specific Airport and to forward them the AOPs through NOP to the others Airport connected to SWIM network. The EOBT is one the data that the AINS system has to be exchange in order to estimate the off block time and to update the Business trajectory accordingly. This requirement has been validated in the following validation Exercises: EXE-609: Dynamically update the NOP/AOP using target time of Arrival (TTA) procedure. EXE-013: Validation of the Monitor and Manage Airport Performance Services Extended to the Aiport Processes. EXE-549: Integration of landside process information into the AOP. EXE-010: Integrated Validation of the DCB Monitoring & Management Process. EXE-757: APOC Performance Monitoring & Management.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>
Remarks	The requirements whose traceability was based on an old document, the trace has been updated for the current Phase with an OSED Ed.3 IER

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0212	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLTP.0212	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-3128.0001
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Requirement	The AINS system shall receive the CTOT data from NOP
Title	CTOT data from NOP
Status	<Validated>
Rationale	<p>The AINS system is responsible of to notify the update data received from an AOP in a specific Airport and to forward them the AOPs through NOP to the others Airport connected to SWIM network.</p> <p>The CTOT is one the data that the AINS system has to be exchange in order to calculate the CFMU(Network Manager) take-off time</p> <p>This requirement has been validated in the following validation Exercises: EXE-609: Dynamically update the NOP/AOP using target time of Arrival (TTA) procedure. EXE-013: Validation of the Monitor and Manage Airport Performance Services Extended to the Aiport Processes. EXE-549: Integration of landside process information into the AOP. EXE-010: Integrated Validation of the DCB Monitoring &amp; Management Process. EXE-757: APOC Performance Monitoring &amp; Management.</p>
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>
Remarks	The requirements whose traceability was based on an old document, the trace has been updated for the current Phase with an OSED Ed.3 IER

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0220	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLTP.0220	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

### 3.1.2.3 AINS to AOP (forwarding to AOP)

#### 3.1.2.3.1 Flight Progress Information

##### 3.1.2.3.1.1 Inbound

[REQ]

Identifier	REQ-12.06.09-TS-FInf.1115
Requirement	The AINS system shall be able to forward the ADIV of each arrival flight to the AOP.
Title	Airport of Diversion (ICAO) Forwarding
Status	<Validated>
Rationale	<p>The AINS system is responsible for notifying the data received from NOP and to forward them to the AOP.</p> <p>The ADIV is one of the data that the AINS system has to exchange. Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from NOP and forwarding.to AOP.</p> <p>This requirement has been validated in the following validation Exercises: EXE-013: Validation of the Monitor and Manage Airport Performance Services Extended to the Aiport Processes. EXE-549: Integration of landside process information into the AOP. EXE-010: Integrated Validation of the DCB Monitoring &amp; Management</p>



	Process. EXE-757: APOC Performance Monitoring & Management.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0623	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-31310.0001
Requirement	The AINS system shall forward the CTA data to AOP in order to update the ATV.
Title	ATV updating through CTA data to AOP
Status	<Validated>
Rationale	The AINS system is responsible of to notify the update data received from an AOP in a specific Airport and to forward them the AOPs through NOP to the others Airport connected to SWIM network. The CTA is one the data that the AINS system has to be exchange in order to calculate the Time of arrival at hand over fix and in order to update the ATV. This requirement has been validated in the following validation Exercises: EXE-609: Dynamically update the NOP/AOP using target time of Arrival (TTA) procedure.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>
Remarks	The requirements whose traceability was based on an old document, the trace has been updated for the current Phase with an OSED Ed.3 IER

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0103	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLTP.0103	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-3139.0001
Requirement	The AINS system shall forward the TTA data to AOP in order to update the ATV.
Title	ATV updating through TTA data to AOP
Status	<Validated>
Rationale	The AINS system is responsible of to notify the update data received from an AOP in a specific Airport and to forward them the AOPs through NOP to the others Airport connected to SWIM network.

	The TTA is one the data that the AINS system has to be exchange in order to calculate the Target Time of arrival at a fix expected and to update the ATV. This requirement has been validated in the following validation Exercises: EXE-609: Dynamically update the NOP/AOP using target time of Arrival (TTA) procedure.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>
Remarks	The requirements whose traceability was based on an old document, the trace has been updated for the current Phase with an OSED Ed.3 IER.

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0101	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLTP.0101	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-3134.0001
Requirement	The AINS system shall forward the origin airport ICAO code data (ADEP) to AOP in order to identify the airport of origin linked to the inbound flight of the ATV.
Title	Origin airport ICAO code data linked to the inbound flight of the ATV
Status	<Validated>
Rationale	The AINS system is responsible of to notify the update data received from an AOP in a specific Airport and to forward them the AOPs through NOP to the others Airport connected to SWIM network. The origin airport ICAO code is one the data that the AINS system has to be exchange in order to identify the origin airport linked to the inbound flight of the ATV This requirement has been created from a common requirement for arrivals and departures. Due to the new indexation, some requirements had been defined specifically for arrivals and departures. This requirement has been validated in the following validation Exercises: EXE-609: Dynamically update the NOP/AOP using target time of Arrival (TTA) procedure. EXE-013: Validation of the Monitor and Manage Airport Performance Services Extended to the Aiport Processes. EXE-549: Integration of landside process information into the AOP. EXE-010: Integrated Validation of the DCB Monitoring & Management Process. EXE-757: APOC Performance Monitoring & Management.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>
Remarks	The requirements whose traceability was based on an old document, the trace has been updated for the current Phase with an OSED Ed.3 IER

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0201	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLID.0201	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>

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<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-3133.0002
Requirement	The AINS system shall forward the ICAO a/c type data to AOP in order to identify the aircraft type linked to the ATV.
Title	Aircraft type linked to the ATV identification
Status	<Validated>
Rationale	<p>The AINS system is responsible of to notify the update data received from an AOP in a specific Airport and to forward them the AOPs through NOP to the others Airport connected to SWIM network.</p> <p>The ICAO a/c type is one the data that the AINS system has to be exchange in order to identify the aircraft type linked to the ATV</p> <p>This requirement has been created from a common requirement for arrivals and departures. Due to the new indexation, some requirements had been defined specifically for arrivals and departures.</p> <p>This requirement has been validated in the following validation Exercises:                      EXE-609: Dynamically update the NOP/AOP using target time of Arrival (TTA) procedure.                      EXE-013: Validation of the Monitor and Manage Airport Performance Services Extended to the Aiport Processes.                      EXE-549: Integration of landside process information into the AOP.                      EXE-010: Integrated Validation of the DCB Monitoring &amp; Management Process.                      EXE-757: APOC Performance Monitoring &amp; Management.</p>
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>
Remarks	The requirements whose traceability was based on an old document, the trace has been updated for the current Phase with an OSED Ed.3 IER.

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0113	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLID.0113	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-3131.0001
Requirement	The AINS system shall forward the ICAO callsign (ARCID) data to AOP in order to identify the ATV inbound flight
Title	ICAO callsign data for ATV inbound flight identification
Status	<Validated>
Rationale	<p>The AINS system is responsible of to notify the update data received from an AOP in a specific Airport and to forward them the AOPs through NOP to the others Airport connected to SWIM network. The ICAO Callsign is one the data that the AINS system has to be exchange in order to identify the ATV inbound flight.</p> <p>This requirement has been created from a common requirement for arrivals and departures. Due to the new indexation, some requirements had been defined specifically for arrivals and departures.</p> <p>This requirement has been validated in the following validation Exercises:                      EXE-609: Dynamically update the NOP/AOP using target time of Arrival</p>

	(TTA) procedure. EXE-013: Validation of the Monitor and Manage Airport Performance Services Extended to the Airport Processes. EXE-549: Integration of landside process information into the AOP. EXE-010: Integrated Validation of the DCB Monitoring & Management Process. EXE-757: APOC Performance Monitoring & Management.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>
Remarks	The requirements whose traceability was based on an old document, the trace has been updated for the current Phase with an OSED Ed.3 IER.

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0005	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLID.0005	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-3135.1001
Requirement	The AINS system shall forward the destination airport ICAO code data to AOP in order to identify the airport of destination linked to the inbound flight of the ATV.
Title	Destination airport ICAO code (ADES) data linked to the inbound flight of the ATV.
Status	<Validated>
Rationale	The AINS system is responsible of to notify the update data received from an AOP in a specific Airport and to forward them the AOPs through NOP to the others Airport connected to SWIM network. The destination airport ICAO code is one the data that the AINS system has to be exchange in order to identify the airport of destination linked to the inbound flight of the ATV. This requirement has been created from a common requirement for arrivals and departures. Due to the new indexation, some requirements had been defined specifically for arrivals and departures. This requirement has been validated in the following validation Exercises: EXE-609: Dynamically update the NOP/AOP using target time of Arrival (TTA) procedure. EXE-013: Validation of the Monitor and Manage Airport Performance Services Extended to the Airport Processes. EXE-549: Integration of landside process information into the AOP. EXE-010: Integrated Validation of the DCB Monitoring & Management Process. EXE-757: APOC Performance Monitoring & Management.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>
Remarks	The requirements whose traceability was based on an old document, the trace has been updated for the current Phase with an OSED Ed.3 IER

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
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	Requirement>		
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLID.0202	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-3136.0001
Requirement	The AINS system shall forward the ELDT data to AOP in order to update the ATV.
Title	ATV updating through ELDT data to AOP
Status	<Validated>
Rationale	The AINS system is responsible of to notify the update data received from an AOP in a specific Airport and to forward them the AOPs through NOP to the others Airport connected to SWIM network. The ELDT is one the data that the AINS system has to be exchange in order to estimate the aircraft landing time and update the ATV accordingly. This requirement has been validated in the following validation Exercises: EXE-609: Dynamically update the NOP/AOP using target time of Arrival (TTA) procedure. EXE-013: Validation of the Monitor and Manage Airport Performance Services Extended to the Aiport Processes. EXE-549: Integration of landside process information into the AOP. EXE-010: Integrated Validation of the DCB Monitoring & Management Process. EXE-757: APOC Performance Monitoring & Management.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>
Remarks	The requirements whose traceability was based on an old document, the trace has been updated for the current Phase with an OSED Ed.3 IER.

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0201	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLTP.0201	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-3132.0001
Requirement	The AINS system shall forward the a/c registration data to AOP in order to update ATV.
Title	ATV updating with a/c registration data
Status	<Validated>
Rationale	The AINS system is responsible of to notify the update data received from an AOP in a specific Airport and to forward them the AOPs through NOP to the others Airport connected to SWIM network. The a/c registration is one the data that the AINS system has to be exchange in order to update ATV This requirement has been created from a common requirement for arrivals and departures. Due to the new indexation, some requirements had been defined specifically for arrivals and departures.

	This requirement has been validated in the following validation Exercises: EXE-609: Dynamically update the NOP/AOP using target time of Arrival (TTA) procedure. EXE-013: Validation of the Monitor and Manage Airport Performance Services Extended to the Aiport Processes. EXE-549: Integration of landside process information into the AOP. EXE-010: Integrated Validation of the DCB Monitoring & Management Process. EXE-757: APOC Performance Monitoring & Management.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>
Remarks	The requirements whose traceability was based on an old document, the trace has been updated for the current Phase with an OSED Ed.3 IER.

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0111	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLID.0111	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-FInf.1409
Requirement	The AINS system shall be able to forward the IFPLID of each flight to the AOP
Title	Initial Flight Plan Identifier Forwarding
Status	<Validated>
Rationale	The AINS system is responsible for notifying the data received from NOP and to forward them to the AOP. The IFPLID is one of the data that the AINS system has to exchange. This requirement has been created from a common requirement for arrivals and departures. Due to the new indexation, some requirements had been defined specifically for arrivals and departures. Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from NOP and forwarding.to AOP. This requirement has been validated in the following validation Exercises: EXE-609: Dynamically update the NOP/AOP using target time of Arrival (TTA) procedure. EXE-013: Validation of the Monitor and Manage Airport Performance Services Extended to the Aiport Processes. EXE-549: Integration of landside process information into the AOP. EXE-010: Integrated Validation of the DCB Monitoring & Management Process. EXE-757: APOC Performance Monitoring & Management.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0010	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLID.0010	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>

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<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

### 3.1.2.3.1.2 Outbound

#### [REQ]

Identifier	REQ-12.06.09-TS-3135.1101
Requirement	The AINS system shall forward the destination airport ICAO code data to AOP in order to identify the airport of destination linked to the outbound flight of the ATV.
Title	Destination airport ICAO code (ADES) data linked to the outbound flight of the ATV.
Status	<Validated>
Rationale	<p>The AINS system is responsible of to notify the update data received from an AOP in a specific Airport and to forward them the AOPs through NOP to the others Airport connected to SWIM network.</p> <p>The destination airport ICAO code is one the data that the AINS system has to be exchange in order to identify the airport of destination linked to the inbound flight of the ATV.</p> <p>This requirement has been created from a common requirement for arrivals and departures. Due to the new indexation, some requirements had been defined specifically for arrivals and departures.</p> <p>This requirement has been validated in the following validation Exercises:          EXE-609: Dynamically update the NOP/AOP using target time of Arrival (TTA) procedure.          EXE-013: Validation of the Monitor and Manage Airport Performance Services Extended to the Aiport Processes.          EXE-549: Integration of landside process information into the AOP.          EXE-010: Integrated Validation of the DCB Monitoring &amp; Management Process.          EXE-757: APOC Performance Monitoring &amp; Management..</p>
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>
Remarks	The requirements whose traceability was based on an old document, the trace has been updated for the current Phase with an OS ED.3 IER

#### [REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OS ED-FLID.0202	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLID.0202	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

#### [REQ]

Identifier	REQ-12.06.09-TS-3134.0101
Requirement	The AINS system shall forward the origin airport ICAO code (ADEP) data to AOP in order to identify the airport of origin linked to the outbound flight of the ATV.
Title	Origin airport ICAO code (ADEP) data linked to the outbound flight of the ATV
Status	<Validated>

Rationale	<p>The AINS system is responsible of to notify the update data received from an AOP in a specific Airport and to forward them the AOPs through NOP to the others Airport connected to SWIM network.</p> <p>The origin airport ICAO code is one the data that the AINS system has to be exchange in order to identify the origin airport linked to the inbound flight of the ATV</p> <p>This requirement has been created from a common requirement for arrivals and departures. Due to the new indexation, some requirements had been defined specifically for arrivals and departures.</p> <p>This requirement has been validated in the following validation Exercises: EXE-609: Dynamically update the NOP/AOP using target time of Arrival (TTA) procedure. EXE-013: Validation of the Monitor and Manage Airport Performance Services Extended to the Aiport Processes. EXE-549: Integration of landside process information into the AOP. EXE-010: Integrated Validation of the DCB Monitoring &amp; Management Process. EXE-757: APOC Performance Monitoring &amp; Management..</p>
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>
Remarks	The requirements whose traceability was based on an old document, the trace has been updated for the current Phase with an OSED Ed.3 IER

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0201	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLID.0201	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-3133.0102
Requirement	The AINS system shall forward the ICAO a/c type data for each outbound flight to AOP in order to identify the aircraft type linked to the ATV.
Title	Aircraft type linked to the ATV identification
Status	<Validated>
Rationale	<p>The AINS system is responsible of to notify the update data received from an AOP in a specific Airport and to forward them the AOPs through NOP to the others Airport connected to SWIM network.</p> <p>The ICAO a/c type is one the data that the AINS system has to be exchange in order to identify the aircraft type linked to the ATV</p> <p>This requirement has been created from a common requirement for arrivals and departures. Due to the new indexation, some requirements had been defined specifically for arrivals and departures.</p> <p>This requirement has been validated in the following validation Exercises: EXE-609: Dynamically update the NOP/AOP using target time of Arrival (TTA) procedure. EXE-013: Validation of the Monitor and Manage Airport Performance Services Extended to the Aiport Processes. EXE-549: Integration of landside process information into the AOP. EXE-010: Integrated Validation of the DCB Monitoring &amp; Management Process. EXE-757: APOC Performance Monitoring &amp; Management..</p>
Category	<Functional>
Validation Method	<Live Trial>

Verification Method	<Test>
Remarks	The requirements whose traceability was based on an old document, the trace has been updated for the current Phase with an OSED Ed.3 IER

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0113	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLID.0113	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-3132.0101
Requirement	The AINS system shall forward the a/c registration data for each outbound flight to AOP in order to update ATV.
Title	ATV updating with a/c registration data
Status	<Validated>
Rationale	<p>The AINS system is responsible of to notify the update data received from an AOP in a specific Airport and to forward them the AOPs through NOP to the others Airport connected to SWIM network.</p> <p>The a/c registration is one the data that the AINS system has to be exchange in order to update ATV</p> <p>This requirement has been created from a common requirement for arrivals and departures. Due to the new indexation, some requirements had been defined specifically for arrivals and departures.</p> <p>This requirement has been validated in the following validation Exercises:                      EXE-609: Dynamically update the NOP/AOP using target time of Arrival (TTA) procedure.                      EXE-013: Validation of the Monitor and Manage Airport Performance Services Extended to the Aiport Processes.                      EXE-549: Integration of landside process information into the AOP.                      EXE-010: Integrated Validation of the DCB Monitoring &amp; Management Process.                      EXE-757: APOC Performance Monitoring &amp; Management.</p>
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>
Remarks	The requirements whose traceability was based on an old document, the trace has been updated for the current Phase with an OSED Ed.3 IER

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0111	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLID.0111	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-FInf.1509
Requirement	The AINS system shall be able to forward the IFPLID of each outbound flight to the AOP
Title	Initial Flight Plan Identifier Forwarding

Status	<Validated>
Rationale	<p>The AINS system is responsible for notifying the data received from NOP and to forward them to the AOP.</p> <p>The IFPLID is one of the data that the AINS system has to exchange.</p> <p>This requirement has been created from a common requirement for arrivals and departures. Due to the new indexation, some requirements had been defined specifically for arrivals and departures.</p> <p>Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from NOP and forwarding to AOP.</p> <p>This requirement has been validated in the following validation Exercises: EXE-609: Dynamically update the NOP/AOP using target time of Arrival (TTA) procedure. EXE-013: Validation of the Monitor and Manage Airport Performance Services Extended to the Airport Processes. EXE-549: Integration of landside process information into the AOP. EXE-010: Integrated Validation of the DCB Monitoring &amp; Management Process. EXE-757: APOC Performance Monitoring &amp; Management.</p>
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0010	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLID.0010	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-3131.0002
Requirement	The AINS system shall forward the ICAO callsign data of each outbound flight to AOP (ARCID) in order to identify the flight
Title	ICAO callsign data for (ARCID) outbound flight identification
Status	<Validated>
Rationale	<p>The AINS system is responsible of to notify the update data received from an AOP in a specific Airport and to forward them the AOPs through NOP to the others Airport connected to SWIM network. The ICAO Callsign is one the data that the AINS system has to be exchange in order to identify the ATV outbound flight.</p> <p>This requirement has been validated in the following validation Exercises: EXE-609: Dynamically update the NOP/AOP using target time of Arrival (TTA) procedure. EXE-013: Validation of the Monitor and Manage Airport Performance Services Extended to the Airport Processes. EXE-549: Integration of landside process information into the AOP. EXE-010: Integrated Validation of the DCB Monitoring &amp; Management Process. EXE-757: APOC Performance Monitoring &amp; Management.</p>
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>
Remarks	The requirements whose traceability was based on an old document, the

	trace has been updated for the current Phase with an OSED Ed.3 IER.
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[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0005	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLID.0005	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-3137.0001
Requirement	The AINS system shall forward the EOBT data of each outbound flight to AOP in order to update the ATV
Title	ATV updating through EOBT data to AOP
Status	<Validated>
Rationale	The AINS system is responsible of to notify the update data received from an AOP in a specific Airport and to forward them the AOPs through NOP to the others Airport connected to SWIM network. The EOBT is one the data that the AINS system has to be exchange in order to estimate the off block time and to update the ATV accordingly. This requirement has been validated in the following validation Exercises: EXE-609: Dynamically update the NOP/AOP using target time of Arrival (TTA) procedure. EXE-013: Validation of the Monitor and Manage Airport Performance Services Extended to the Aiport Processes. EXE-549: Integration of landside process information into the AOP. EXE-010: Integrated Validation of the DCB Monitoring & Management Process. EXE-757: APOC Performance Monitoring & Management.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>
Remarks	The requirements whose traceability was based on an old document, the trace has been updated for the current Phase with an OSED Ed.3 IER

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0212	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLTP.0212	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-3138.0001
Requirement	The AINS system shall forward the CTOT data of each outbound flight to AOP in order to update the ATV.
Title	ATV updating through CTOT data to AOP
Status	<Validated>
Rationale	The AINS system is responsible of to notify the update data received from an AOP in a specific Airport and to forward them the AOPs through NOP to the others Airport connected to SWIM network. The CTOT is one the data that the AINS system has to be exchange in



	<p>order to calculate the CFMU (Network Manager )take-off time and to update the ATV accordingly. This requirement has been validated in the following validation Exercises: EXE-609: Dynamically update the NOP/AOP using target time of Arrival (TTA) procedure. EXE-013: Validation of the Monitor and Manage Airport Performance Services Extended to the Aiport Processes. EXE-549: Integration of landside process information into the AOP. EXE-010: Integrated Validation of the DCB Monitoring &amp; Management Process. EXE-757: APOC Performance Monitoring &amp; Management.</p>
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>
Remarks	The requirements whose traceability was based on an old document, the trace has been updated for the current Phase with an OSED Ed.3 IER

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0220	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLTP.0220	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-3138.0002
Requirement	The AINS system shall forward the CTOT data of each outbound flight to AOP in order to update the SBT
Title	SBT updating through CTOT data to AOP
Status	<Validated>
Rationale	<p>The AINS system is responsible of to notify the update data received from an AOP in a specific Airport and to forward them the AOPs through NOP to the others Airport connected to SWIM network. The CTOT is one the data that the AINS system has to be exchange in order to calculate the CFMU take-off time and to update the SBT accordingly. This requirement has been validated in the following validation Exercises: EXE-609: Dynamically update the NOP/AOP using target time of Arrival (TTA) procedure. EXE-013: Validation of the Monitor and Manage Airport Performance Services Extended to the Aiport Processes. EXE-549: Integration of landside process information into the AOP. EXE-010: Integrated Validation of the DCB Monitoring &amp; Management Process. EXE-757: APOC Performance Monitoring &amp; Management.</p>
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>
Remarks	The requirements whose traceability was based on an old document, the trace has been updated for the current Phase with an OSED Ed.3 IER

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0220	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLTP.0220	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>

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<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

### 3.1.2.4 AOP to AINS (Reception from AOP)

#### 3.1.2.4.1 Flight Progress Information

##### 3.1.2.4.1.1 Inbound

[REQ]

Identifier	REQ-12.06.09-TS-OFPI.0020
Requirement	The AINS system shall be able to receive the ARCID next of each arrival flight from AOP.
Title	ARCID identification
Status	<Validated>
Rationale	The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP. The ARCID next is one of the data that the AINS system has to exchange in order to identify the ICAO call sign of the next movement linked to the ATV. This requirement has been verified, and is going to be validated in the EXE-749.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0005	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLID.0207	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-OFIS.0201
Requirement	The AINS system shall be able to receive the ARCCOD of each flight from AOP.
Title	Aircraft Code (IATA Aircraft Type) Reception
Status	<Validated>
Rationale	The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP. The ARCCOD is one of the data that the AINS system has to exchange This requirement has been created from a common requirement for arrivals and departures. Due to the new indexation, some requirements had been defined specifically for arrivals and departures. Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from AOP and forwarding.to NOP. This requirement has been verified, and is going to be validated in the EXE-

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	749. In the previous TS this requirement had code REQ-12.06.09-TS-OFIS.0001.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0112	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLID.0112	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-FInf.2418
Requirement	The AINS system shall be able to receive the TERM ID of each flight from AOP.
Title	Terminal ID Reception
Status	<Validated>
Rationale	<p>The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP.</p> <p>The TERM ID is one of the data that the AINS system has to exchange</p> <p>This requirement has been created from a common requirement for arrivals and departures. Due to the new indexation, some requirements had been defined specifically for arrivals and departures.</p> <p>Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from AOP and forwarding.to NOP.</p> <p>This requirement has been verified, and is going to be validated in the EXE-749.</p> <p>In the previous TS this requirement had code REQ-12.06.09-TS-FInf.0418.</p>
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0205	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLID.0205	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-FInf.2420
Requirement	The AINS system shall be able to receive the FL ID of each flight from AOP.
Title	Flight Identification Reception
Status	<Validated>
Rationale	<p>The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP.</p> <p>The FL ID is one of the data that the AINS system has to exchange</p>

	<p>This requirement has been created from a common requirement for arrivals and departures. Due to the new indexation, some requirements had been defined specifically for arrivals and departures..</p> <p>Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from AOP and forwarding.to NOP.</p> <p>This requirement has been verified, and is going to be validated in the EXE-749.</p> <p>In the previous TS this requirement had code REQ-12.06.09-TS-FInf.0420.</p>
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0001	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLID.0001	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-OFPI.0022
Requirement	The AINS system shall be able to receive the DEST of each flight from AOP.
Title	Aerodrome of Destination (IATA) Reception
Status	<Validated>
Rationale	<p>The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP.</p> <p>The Aerodrome of Destination is one of the data that the AINS system has to exchange.</p> <p>This requirement has been created from a common requirement for arrivals and departures. Due to the new indexation, some requirements had been defined specifically for arrivals and departures..</p> <p>Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from AOP and forwarding.to NOP.</p> <p>This requirement has been verified and validated in the EXE-749.</p>
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0204	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-OFPI.0021
Requirement	The AINS system shall be able to receive the DEP of each flight from AOP.
Title	Aerodrome of Departure (IATA)

	Reception
Status	<Validated>
Rationale	The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP. The Aerodrome of Departure is one of the data that the AINS system has to exchange. Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from AOP and forwarding.to NOP. This requirement has been verified and validated in the EXE-749.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0203	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLID.0203	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

### 3.1.2.4.1.2 Outbound

[REQ]

Identifier	REQ-12.06.09-TS-OFPO.0020
Requirement	The AINS system shall be able to receive the ARCID previous of each departure flight from AOP.
Title	ARCID linked to the ATV identification
Status	<Validated>
Rationale	The AINS system is responsible of to notify the update data received from an AOP in a specific Airport and to forward them the AOPs through NOP to the others Airport connected to SWIM network. The ARCID previous is one the data that the AINS system has to be exchange in order to identify the aircraft type linked to the ATV Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from AOP and forwarding.to NOP. This requirement has been verified. It will be Validated in EXE-749:.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0209	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLID.0209	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-OFIS.0101
Requirement	The AINS system shall be able to receive the ARCCOD of each flight from AOP.
Title	Aircraft Code (IATA Aircraft Type) Reception
Status	<Validated>
Rationale	The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP. The ARCCOD is one of the data that the AINS system has to exchange. This requirement has been created from a common requirement for arrivals and departures. Due to the new indexation, some requirements had been defined specifically for arrivals and departures. Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from AOP and forwarding.to NOP. This requirement has been verified. It will be Validated in EXE-749:.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0112	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLID.0112	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-FInf.0518
Requirement	The AINS system shall be able to receive the TERM ID of each flight from AOP.
Title	Terminal ID Reception
Status	<Validated>
Rationale	The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP. The TERM ID is one of the data that the AINS system has to exchange. This requirement has been created from a common requirement for arrivals and departures. Due to the new indexation, some requirements had been defined specifically for arrivals and departures.. Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from AOP and forwarding.to NOP. This requirement has been verified. It will be Validated in EXE-749:.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0205	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLID.0205	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>

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<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-FInf.0520
Requirement	The AINS system shall be able to receive the FL ID of each flight from AOP.
Title	Flight Identification Reception
Status	<Validated>
Rationale	The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP. The FL ID is one of the data that the AINS system has to exchange. This requirement has been created from a common requirement for arrivals and departures. Due to the new indexation, some requirements had been defined specifically for arrivals and departures. Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from AOP and forwarding.to NOP. This requirement has been verified. It will be Validated in EXE-749:.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0001	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLID.0001	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-FInf.0425
Requirement	The AINS system shall be able to receive the ADST from AOP.
Title	Airport Departure Slot Time Reception
Status	<Validated>
Rationale	The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP. The SOBT is one of the data that the AINS system has to exchange. Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from AOP and forwarding.to NOP. This requirement has been verified. It will be Validated in EXE-749:.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0105	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLID.0103	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

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### 3.1.2.4.2 Airport Resource & Capacity

[REQ]

Identifier	REQ-12.06.09-TS-OARC.0001
Requirement	The AINS system shall be able to receive the Airport ID (IATA) from AOP.
Title	Airport ID (IATA) Reception
Status	<Validated>
Rationale	The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP. The Airport ID (IATA) is one of the data that the AINS system has to exchange. Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from AOP and forwarding.to NOP. This requirement has been verified. This requirement has been validated in the following validation Exercises: EXE-010: Integrated Validation of the DCB Monitoring & Management Process. EXE-757: APOC Performance Monitoring & Management.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-CAPC.0101	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-CAPC.0101	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-OARC.0002
Requirement	The AINS system shall be able to receive the Airport ID (ICAO) from AOP.
Title	Airport ID (ICAO) Reception
Status	<Validated>
Rationale	The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP. The Airport ID (ICAO) is one of the data that the AINS system has to exchange. Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from AOP and forwarding.to NOP. This requirement has been verified.This requirement has been validated in the following validation Exercises: EXE-010: Integrated Validation of the DCB Monitoring & Management Process. EXE-757: APOC Performance Monitoring & Management..
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-CAPC.0102	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-CAPC.0102	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-OARC.0003
Requirement	The AINS system shall be able to receive the Airport Status Code from AOP.
Title	Airport Status Code Reception
Status	<Validated>
Rationale	<p>The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP.</p> <p>The Airport Status Code is one of the data that the AINS system has to exchange.</p> <p>Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from AOP and forwarding.to NOP.</p> <p>This requirement has been verified. This requirement has been validated in the following validation Exercises:</p> <p>EXE-010: Integrated Validation of the DCB Monitoring &amp; Management Process.</p> <p>EXE-757: APOC Performance Monitoring &amp; Management..</p>
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-CAPC.0103	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-CAPC.0103	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-OARC.0004
Requirement	The AINS system shall be able to receive the Airport Status Description from AOP.
Title	Airport Status Description Reception
Status	<Validated>
Rationale	<p>The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP.</p> <p>The Airport Status Description is one of the data that the AINS system has to exchange.</p> <p>Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from AOP and forwarding.to NOP.</p> <p>This requirement has been verified. This requirement has been validated in the following validation Exercises:</p>

	EXE-010: Integrated Validation of the DCB Monitoring & Management Process. EXE-757: APOC Performance Monitoring & Management..
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-CAPC.0104	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-CAPC.0104	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

### 3.1.2.5 AINS to NOP (Forwarding to NOP)

#### 3.1.2.5.1 Flight Progress Information

##### 3.1.2.5.1.1 Inbound

[REQ]

Identifier	REQ-12.06.09-TS-OFPI.0001
Requirement	The AINS system shall be able to send the Flight Status - SCH of each arrival flight to NOP
Title	Flight Status - SCH Reception
Status	<Validated>
Rationale	The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP. The Flight Status - SCH is one of the data that the AINS system has to exchange This requirement has been verified and validated in the EXE-749.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0001	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLTP.0001	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-OFPI.1003
Requirement	The AINS system shall be able to send the Flight Status - INI of each flight to NOP.
Title	Flight Status - INI Reception&Forwarding
Status	<Validated>
Rationale	The AINS system is responsible for notifying the data received from AOP

	<p>and to forward them to the NOP. The Flight Status - INI is one of the data that the AINS system has to exchange This requirement has been created from a common requirement for arrivals and departures. Due to the new indexation, some requirements had been defined specifically for arrivals and departures.. Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from AOP and forwarding.to NOP.</p> <p>This requirement has been included because of the agreements for the Validation exercise EXE-749 although it not appear in the OSED Ed3. This requirement has been verified, and is going to be validated in the EXE-749.</p>
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0002	<Full>
<SATISFIES>	<ATMS Requirement>	IER-06.05.04-OSED-FLTP.0002	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-OFPI.1103
Requirement	The AINS system shall be able to send the Flight Status - AIR of each flight to NOP.
Title	Flight Status - AIR Reception&Forwarding
Status	<Validated>
Rationale	<p>The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP. The Flight Status - AIR is one of the data that the AINS system has to exchange This requirement has been created from a common requirement for arrivals and departures. Due to the new indexation, some requirements had been defined specifically for arrivals and departures.. Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from AOP and forwarding.to NOP.</p> <p>This requirement has been included because of the agreements for the Validation exercise EXE-749 although it not appear in the OSED Ed3. This requirement has been verified, and is going to be validated in the EXE-749. Codification of this requirement has been changed, but corresponds with the OFPI.1003 verified for the AIR status in Phase 3</p>
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange	IER-06.05.04-OSED-FLTP.0003	<Full>

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	Requirement>		
<SATISFIES>	<ATMS Requirement>	IER-06.05.04-OSED-FLTP.0003	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-OFPI.0002
Requirement	The AINS system shall be able to send the Flight Status - FIR of each arrival flight to NOP
Title	Flight Status – FIR (Aircraft Flight Status Within FIR boundary) Reception
Status	<Validated>
Rationale	The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP. The Flight Status - FIR is one of the data that the AINS system has to exchange This requirement has been verified and validated in the EXE-749.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0004	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLTP.0004	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-OFPI.0003
Requirement	The AINS system shall be able to send the Flight Status - FNL of each arrival flight to NOP
Title	Flight Status - FNL Reception
Status	<Validated>
Rationale	The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP. The Flight Status - FNL is one of the data that the AINS system has to exchange.. This requirement has been verified and validated in the EXE-749.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0006	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLTP.0006	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A

<ALLOCATED TO>	<Project>	12.06.09	N/A
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[REQ]

Identifier	REQ-12.06.09-TS-OFPI.0004
Requirement	The AINS system shall be able to send the Flight Status – LND (TXI – Taxi in - Landed) of each arrival flight to NOP.
Title	Flight Status - LND Reception
Status	<Validated>
Rationale	The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP. The Flight Status - LND is one of the data that the AINS system has to exchange. This requirement has been verified and validated in the EXE-749.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0007	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLTP.0007	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-OFPI.0005
Requirement	The AINS system shall be able to send the Flight Status - IBK of each flight to NOP.
Title	Flight Status -IBK Reception
Status	<Validated>
Rationale	The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP. The Flight Status - IBK is one of the data that the AINS system has to exchange.This requirement has been verified and validated in the EXE-749.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0020	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLTP.0008	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-OFPI.0006
Requirement	The AINS system shall be able to send the Flight Status - STB (SBY - stand-by)of each flight to NOP.
Title	Flight Status - STB Reception



Status	<Validated>
Rationale	The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP. The Flight Status - STB is one of the data that the AINS system has to exchange. This requirement has been verified and validated in the EXE-749.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0015	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLTP.0015	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-OFPI.0007
Requirement	The AINS system shall be able to send the SIBT of each flight to NOP.
Title	Scheduled In-Block Time Reception
Status	<Validated>
Rationale	The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP. The SIBT is one of the data that the AINS system has to exchange. This requirement has been verified and validated in the EXE-749.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0104	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLID.0104	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-OFPI.0008
Requirement	The AINS system shall be able to send the EIBT of each flight to NOP.
Title	Estimated In-Block Time Reception
Status	<Validated>
Rationale	The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP. The EIBT is one of the data that the AINS system has to exchange. This requirement has been verified and validated in the EXE-749.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0206	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLTP.0206	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-OFPI.0009
Requirement	The AINS system shall be able to send the AIBT of each flight to NOP.
Title	Actual In-Block Time Reception
Status	<Validated>
Rationale	The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP. The AIBT is one of the data that the AINS system has to exchange. This requirement has been verified and validated in the EXE-749.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0207	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLTP.0207	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-OFPI.0010
Requirement	The AINS system shall be able to send the TTA of each flight to NOP.
Title	Target time of Arrival Reception
Status	<Validated>
Rationale	The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP. The TSAT is one of the data that the AINS system has to exchange. This requirement has been verified and validated in the EXE-749.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0101	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLTP.0101	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-OFPI.0011
Requirement	The AINS system shall be able to send the ELDT of each flight to NOP.
Title	Estimated Landing Time Reception
Status	<Validated>
Rationale	The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP. The ELDT is one of the data that the AINS system has to exchange. This requirement has been verified and validated in the EXE-749.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0201	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLTP.0201	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-OFPI.0012
Requirement	The AINS system shall be able to send the ALDT of each flight to NOP.
Title	Actual Landing Time Reception
Status	<Validated>
Rationale	The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP. The ALDT is one of the data that the AINS system has to exchange. This requirement has been verified and validated in the EXE-749.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0203	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLTP.0203	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-OFPI.0013
Requirement	The AINS system shall be able to send the EXIT of each flight to NOP.
Title	Estimated Taxi-In Time Reception
Status	<Validated>
Rationale	The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP. The EXIT is one of the data that the AINS system has to exchange. This requirement has been verified and validated in the EXE-749.
Category	<Functional>
Validation Method	<Live Trial>

Verification Method	<Test>
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[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0226	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLTP.0226	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-OFPI.0014
Requirement	The AINS system shall be able to send the AXIT of each flight to NOP.
Title	Actual Taxi-In Time Reception
Status	<Validated>
Rationale	The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP. The AXIT is one of the data that the AINS system has to exchange. This requirement has been verified and validated in the EXE-749.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0227	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLTP.0227	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-OFPI.0015
Requirement	The AINS system shall be able to send the RWYARR of each flight to NOP .
Title	Runway identifier of the assigned runway Reception
Status	<Validated>
Rationale	The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP. The RWYARR is one of the data that the AINS system has to exchange. This requirement has been verified and validated in the EXE-749.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0502	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLTP.0502	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-OFPI.0016
Requirement	The AINS system shall be able to send the STAR of each flight to NOP
Title	Standard Terminal Arrival Route (STAR) Reception
Status	<Validated>
Rationale	The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP. The STAR is one of the data that the AINS system has to exchange. This requirement has been verified and validated in the EXE-749.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0505	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLTP.0505	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-OFPI.0017
Requirement	The AINS system shall be able to send the AAST of each arrival flight to NOP.
Title	Airport Arrival Slot Time Reception
Status	<Validated>
Rationale	The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP. The AAST is one of the data that the AINS system has to exchange. This requirement has been verified and validated in the EXE-749.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0102	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-OFPI.0018
Requirement	The AINS system shall be able to send the ADIV of each arrival flight to NOP
Title	Airport of Diversion (ICAO) Reception
Status	<Validated>
Rationale	The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP. The ADIV is one of the data that the AINS system has to exchange. This requirement has been verified and validated in the EXE-749.

Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0623	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-OFPI.0019
Requirement	The AINS system shall be able to send the Final Impact Assessment (AIMA) agreements of each arrival flight to NOP
Title	Final Impact Assessment (AIMA) agreements Reception
Status	<Validated>
Rationale	The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP. The Final AIMA is one of the data that the AINS system has to exchange. This requirement has been verified and validated in the EXE-749.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.05.02-OSED-FLTP.0115	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-OFPI.1020
Requirement	The AINS system shall be able to send the ARCID next of each arrival flight to NOP.
Title	identification
Status	<Validated>
Rationale	The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP. The ARCID next is one the data that the AINS system has to be exchange in order to identify the ICAO call sign of the next movement linked to the ATV This requirement has been verified and validated in the EXE-749.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0005	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLID.0207	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>



<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-OFIS.1001
Requirement	The AINS system shall be able to send the ARCCOD of each flight to NOP
Title	Aircraft Code (IATA Aircraft Type) Reception&Forwarding
Status	<Validated>
Rationale	The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP. The ARCCOD is one of the data that the AINS system has to exchange. This requirement has been created from a common requirement for arrivals and departures. Due to the new indexation, some requirements had been defined specifically for arrivals and departures. Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from AOP and forwarding.to NOP. This requirement has been verified and validated in the EXE-749.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0112	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLID.0112	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-FInf.1418
Requirement	The AINS system shall be able to send the TERM ID of each flight to NOP
Title	Terminal ID Reception&Forwarding
Status	<Validated>
Rationale	The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP. The TERM ID is one of the data that the AINS system has to exchange This requirement has been created from a common requirement for arrivals and departures. Due to the new indexation, some requirements had been defined specifically for arrivals and departures.. Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from AOP and forwarding.to NOP. This requirement has been verified and validated in the EXE-749.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange	IER-06.05.04-OSED-FLID.0205	<Full>

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	Requirement>		
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLID.0205	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-FInf.1420
Requirement	The AINS system shall be able to send the FL ID of each flight to NOP
Title	Flight Identification Reception&Forwarding
Status	<Validated>
Rationale	The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP. The FL ID is one of the data that the AINS system has to exchange This requirement has been created from a common requirement for arrivals and departures. Due to the new indexation, some requirements had been defined specifically for arrivals and departures.. Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from AOP and forwarding.to NOP. This requirement has been verified and validated in the EXE-749.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0001	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLID.0001	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-FInf.1425
Requirement	The AINS system shall be able to send the ADST to NOP.
Title	Airport Departure Slot Time Reception&Forwarding
Status	<Validated>
Rationale	The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP. The SOBT is one of the data that the AINS system has to exchange Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from AOP and forwarding.to NOP. This requirement has been verified and validated in the EXE-749.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0105	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLID.0103	
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>

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<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-OFPI.1022
Requirement	The AINS system shall be able to send the DEST of each flight to NOP.
Title	Aerodrome of Destination (IATA) Reception&Forwarding
Status	<Validated>
Rationale	The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP. The Aerodrome of Destination is one of the data that the AINS system has to exchange. This requirement has been verified and validated in the EXE-749.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0204	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLID.0204	
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-OFPI.1021
Requirement	The AINS system shall be able to send the DEP of each flight to NOP.
Title	Aerodrome of Departure (IATA) Reception&Forwarding
Status	<Validated>
Rationale	The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP. The Aerodrome of Departure is one of the data that the AINS system has to exchange. This requirement has been verified and validated in the EXE-749.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0203	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLID.0203	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

### 3.1.2.5.1.2 Outbound

[REQ]

Identifier	REQ-12.06.09-TS-OFPO.0001
Requirement	The AINS system shall be able to send the Flight Status - SCH of each flight to NOP
Title	Flight Status - SCH Reception&Forwarding
Status	<Validated>
Rationale	The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP. The Flight Status - SCH is one of the data that the AINS system has to exchange This requirement has been created from a common requirement for arrivals and departures. Due to the new indexation, some requirements had been defined specifically for arrivals and departures.. Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from AOP and forwarding.to NOP.. This requirement has been verified and validated in EXE-749:..
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0026	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLTP.0026	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-OFPO.0003
Requirement	The AINS system shall be able to send the Flight Status - INI of each flight to NOP.
Title	Flight Status - INI Reception&Forwarding
Status	<Validated>
Rationale	The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP. The Flight Status - INI is one of the data that the AINS system has to exchange This requirement has been created from a common requirement for arrivals and departures. Due to the new indexation, some requirements had been defined specifically for arrivals and departures.. Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from AOP and forwarding.to NOP. This requirement has been verified and validated in EXE-749:..
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0027	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLTP.0027	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>

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<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-OFPO.0006
Requirement	The AINS system shall be able to send the Flight Status - DEP (or AIR) of each flight to NOP.
Title	Flight Status - DEP (or AIR) Reception&Forwarding
Status	<Validated>
Rationale	The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP. The Flight Status - DEP (or AIR) is one of the data that the AINS system has to exchange Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from AOP and forwarding.to NOP. This requirement has been verified and validated in EXE-749:..
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0020	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLTP.0020	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-OFPO.0023
Requirement	The AINS system shall be able to send the Flight Status - BRD of each flight to NOP.
Title	Flight Status - BRD Reception&Forwarding
Status	<Validated>
Rationale	The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP. The Flight Status - BRD is one of the data that the AINS system has to exchange Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from AOP and forwarding.to NOP. This requirement has been verified and validated in EXE-749:..
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0011	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLTP.0011	
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A

<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-OFPO.0025
Requirement	The AINS system shall be able to send the Flight Status - OBK of each flight to NOP.
Title	Flight Status - OBK Reception&Forwarding
Status	<Validated>
Rationale	The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP. The Flight Status - OBK is one of the data that the AINS system has to exchange Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from AOP and forwarding.to NOP. This requirement has been verified and validated in EXE-749:.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0014	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLTP.0014	
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-OFPO.0125
Requirement	The AINS system shall be able to send the Flight Status - DEP of each flight to NOP.
Title	Flight Status - DEP Reception&Forwarding
Status	<Validated>
Rationale	The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP. The Flight Status - DEP is one of the data that the AINS system has to exchange Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from AOP and forwarding.to NOP. This requirement has been verified and validated in EXE-749:. Codification of this requirement has been changed, but corresponds with the OFPO.0025 verified for the DEP status in Phase 3
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0020	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLTP.0020	
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>



<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-OFPO.0008
Requirement	The AINS system shall be able to send the TOBT of each flight to NOP.
Title	Target Off-Block Time Reception&Forwarding
Status	<Validated>
Rationale	The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP. The TOBT is one of the data that the AINS system has to exchange Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from AOP and forwarding.to NOP. This requirement has been verified and validated in EXE-749:..
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0211	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLTP.0211	
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-OFPO.0019
Requirement	The AINS system shall be able to send the EOBT of each flight to NOP.
Title	Estimated Off-Block Time Reception&Forwarding
Status	<Validated>
Rationale	The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP. The EOBT is one of the data that the AINS system has to exchange Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from AOP and forwarding.to NOP. This requirement has been verified and validated in EXE-749:..
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0212	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLTP.0212	
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-OFPO.0009
Requirement	The AINS system shall be able to send the AOBT of each flight to NOP.
Title	Actual Off-Block Time Reception&Forwarding
Status	<Validated>
Rationale	The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP. The AOBT is one of the data that the AINS system has to exchange Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from AOP and forwarding.to NOP. This requirement has been verified and validated in EXE-749:.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0213	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLTP.0213	
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-OFPO.0010
Requirement	The AINS system shall be able to send the TSAT of each flight to NOP.
Title	Target Start-Up Approval TimeReception&Forwarding
Status	<Validated>
Rationale	The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP. The TSAT is one of the data that the AINS system has to exchange Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from AOP and forwarding.to NOP. This requirement has been verified and validated in EXE-749:.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0216	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLTP.0216	
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-OFPO.0012
Requirement	The AINS system shall be able to send the TTOT of each flight to NOP.
Title	Target Take Off Time Reception&Forwarding
Status	<Validated>
Rationale	The AINS system is responsible for notifying the data received from AOP

	and to forward them to the NOP. The TTOT is one of the data that the AINS system has to exchange Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from AOP and forwarding.to NOP. This requirement has been verified and validated in EXE-749:..
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0221	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLTP.0221	
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-OFPO.0014
Requirement	The AINS system shall be able to send the ATOT of each flight to NOP.
Title	Actual Take Off Time Reception&Forwarding
Status	<Validated>
Rationale	The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP. The ATOT is one of the data that the AINS system has to exchange Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from AOP and forwarding.to NOP. This requirement has been verified and validated in EXE-749:..
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0223	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLTP.0223	
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-OFPO.0015
Requirement	The AINS system shall be able to send the EXOT of each flight to NOP.
Title	Estimated Taxi-Out Time Reception&Forwarding
Status	<Validated>
Rationale	The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP. The EXOT is one of the data that the AINS system has to exchange Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from AOP and forwarding.to NOP.

	This requirement has been verified and validated in EXE-749:.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0228	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLTP.0228	
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-OFPO.0016
Requirement	The AINS system shall be able to send the AXOT of each flight to NOP.
Title	Actual Taxi-Out Time Reception&Forwarding
Status	<Validated>
Rationale	The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP. The AXOT is one of the data that the AINS system has to exchange. Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from AOP and forwarding.to NOP. This requirement has been verified and validated in EXE-749:.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0229	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLTP.0229	
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-OFPO.0017
Requirement	The AINS system shall be able to send the RWYDEP of each flight to NOP .
Title	Runway identifier of the assigned runway Reception&Forwarding
Status	<Validated>
Rationale	The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP. The RWYDEP is one of the data that the AINS system has to exchange . Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from AOP and forwarding.to NOP. This requirement has been verified and validated in EXE-749:.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0504	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLTP.0504	
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-OFPO.0018
Requirement	The AINS system shall be able to send the SID of each flight to NOP
Title	Standard Instrument Departure Route (SID) Reception&Forwarding
Status	<Validated>
Rationale	The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP. The SID is one of the data that the AINS system has to exchange. Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from AOP and forwarding.to NOP. This requirement has been verified and validated in EXE-749:.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0506	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLTP.0506	
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-OFPO.1023
Requirement	The AINS system shall be able to send the SOBT of each flight to NOP.
Title	Scheduled Off-Block Time Forwarding
Status	<Validated>
Rationale	The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP. The SOBT is one of the data that the AINS system has to exchange. Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from AOP and forwarding.to NOP. This requirement has been verified and validated in EXE-749:.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0105	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLID.0105	
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>

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<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-OFPO.0021
Requirement	The AINS system shall be able to send the ADST of each departure flight to NOP.
Title	ADST linked to the ATV identification
Status	<Validated>
Rationale	The AINS system is responsible of to notify the update data received from an AOP in a specific Airport and to forward them the AOPs through NOP to the others Airport connected to SWIM network. The ADST is one the data that the AINS system has to be exchange in order to identify the aircraft type linked to the ATV Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from AOP and forwarding.to NOP. This requirement has been verified and validated in EXE-749:..
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0103	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-OFPO.1020
Requirement	The AINS system shall be able to send the ARCID previous of each departure flight to NOP.
Title	Aircraft type linked to the ATV identification
Status	<Validated>
Rationale	The AINS system is responsible of to notify the update data received from an AOP in a specific Airport and to forward them the AOPs through NOP to the others Airport connected to SWIM network. The ICAO a/c type is one the data that the AINS system has to be exchange in order to identify the aircraft type linked to the ATV This requirement has been created from a common requirement for arrivals and departures. Due to the new indexation, some requirements had been defined specifically for arrivals and departures Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from AOP and forwarding.to NOP. This requirement has been verified and validated in EXE-749:..
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
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<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0209	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-OFIS.0001
Requirement	The AINS system shall be able to send the ARCCOD of each flight to NOP
Title	Aircraft Code (IATA Aircraft Type) Reception&Forwarding
Status	<Validated>
Rationale	The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP. The ARCCOD is one of the data that the AINS system has to exchange. This requirement has been created from a common requirement for arrivals and departures. Due to the new indexation, some requirements had been defined specifically for arrivals and departures. Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from AOP and forwarding.to NOP. This requirement has been verified and validated in EXE-749: In the previous TS, this requirement had code REQ-12.06.09-TS-OFIS.1101.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0112	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLID.0112	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-FInf.0418
Requirement	The AINS system shall be able to send the TERM ID of each flight to NOP
Title	Terminal ID Reception&Forwarding
Status	<Validated>
Rationale	The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP. The TERM ID is one of the data that the AINS system has to exchange. This requirement has been created from a common requirement for arrivals and departures. Due to the new indexation, some requirements had been defined specifically for arrivals and departures.. Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from AOP and forwarding.to NOP. This requirement has been verified and validated in EXE-749. In the previous TS, this requirement had code REQ-12.06.09-TS-FInf.1518.
Category	<Functional>
Validation Method	<Live Trial>

Verification Method	<Test>
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[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0205	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLID.0205	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-FInf.0420
Requirement	The AINS system shall be able to send the FL ID of each flight to NOP
Title	Flight Identification Reception&Forwarding
Status	<Validated>
Rationale	The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP. The FL ID is one of the data that the AINS system has to exchange. This requirement has been created from a common requirement for arrivals and departures. Due to the new indexation, some requirements had been defined specifically for arrivals and departures. Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from AOP and forwarding.to NOP. This requirement has been verified and validated in EXE-749. In the previous TS, this requirement had code REQ-12.06.09-TS-FInf.1520.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0001	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLID.0001	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

### 3.1.2.5.2 Airport Resource & Capacity

[REQ]

Identifier	REQ-12.06.09-TS-OARC.1001
Requirement	The AINS system shall be able to send the Airport ID (IATA) to NOP.
Title	Airport ID (IATA) Reception&Forwarding
Status	<Validated>
Rationale	The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP. The Airport ID (IATA) is one of the data that the AINS system has to exchange. Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from AOP and forwarding.to NOP.

	This requirement has been verified. This requirement has been validated in the following validation Exercises: EXE-010: Integrated Validation of the DCB Monitoring & Management Process. EXE-757: APOC Performance Monitoring & Management.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-CAPC.0101	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-CAPC.0101	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-OARC.1002
Requirement	The AINS system shall be able to send the Airport ID (ICAO) to NOP.
Title	Airport ID (ICAO) Reception&Forwarding
Status	<Validated>
Rationale	The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP. The Airport ID (ICAO) is one of the data that the AINS system has to exchange. Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from AOP and forwarding.to NOP. This requirement has been verified. This requirement has been validated in the following validation Exercises: EXE-010: Integrated Validation of the DCB Monitoring & Management Process. EXE-757: APOC Performance Monitoring & Management.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-CAPC.0102	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-CAPC.0101	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-OARC.1003
Requirement	The AINS system shall be able to send the Airport Status Code to NOP.
Title	Airport Status Code Reception&Forwarding
Status	<Validated>
Rationale	The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP.

	<p>The Airport Status Code is one of the data that the AINS system has to exchange. Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from AOP and forwarding.to NOP. This requirement has been verified. This requirement has been validated in the following validation Exercises: EXE-010: Integrated Validation of the DCB Monitoring &amp; Management Process. EXE-757: APOC Performance Monitoring &amp; Management.</p>
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-CAPC.0103	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-CAPC.0103	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-OARC.1004
Requirement	The AINS system shall be able to send the Airport Status Description to NOP.
Title	Airport Status Description Reception&Forwarding
Status	<Validated>
Rationale	<p>The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP. The Airport Status Description is one of the data that the AINS system has to exchange. Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from AOP and forwarding.to NOP. This requirement has been verified.This requirement has been validated in the following validation Exercises: EXE-010: Integrated Validation of the DCB Monitoring &amp; Management Process. EXE-757: APOC Performance Monitoring &amp; Management.</p>
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-CAPC.0104	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-CAPC.0104	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<SATISFIES>	<Service>	NetworkOperationPlan	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

## 3.2 Adaptability

### 3.2.1 Adaptability Requirements

[REQ]

Identifier	REQ-12.06.09-TS-3201.0001
Requirement	The AINS system shall discard any corrupted message received from the NOP in order to avoid processing it
Title	Resistance against corrupt data
Status	<In Progress>
Rationale	This requirement has been written in order to maintain the coherence of the information handled by the prototype
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-14.01.04-TS-0001.0130	<Partial>
<SATISFIES>	<Enabler>	GGSWIM-26a	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

## 3.3 Performance Characteristics

### 3.3.1 Performance Requirements

[REQ]

Identifier	REQ-12.06.09-TS-3301.0001
Requirement	The AINS system shall process all the NOP updates coming from the same NOP request before sending or receiving a new data NOP request
Title	NOP updating
Status	<In Progress>
Rationale	The requirement has been written in this way to specify the NOP Updating process
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-14.01.04-TS-0001.0080	<Partial>
<SATISFIES>	<Enabler>	GGSWIM-26a	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

## 3.4 Safety & Security

### 3.4.1 Safety Requirements

Not Applicable – decisions to be taken by each individual industrial partner.

### 3.4.2 Security Requirements

Not Applicable – decisions to be taken by each individual industrial partner.

## 3.5 Maintainability

Not Applicable – decisions to be taken by each individual industrial partner.

## 3.6 Reliability

Not Applicable – decisions to be taken by each individual industrial partner.

## 3.7 Functional block Internal Data Requirements

*Not Applicable*

## 3.8 Design and Construction Constraints

[REQ]

Identifier	REQ-12.06.09-TS-3801.0001
Requirement	The AINS system messaging capability shall be compliant with the following interoperability standards: SOAP 1.1 over HTTP 1.1. XML over HTTP 1.1.

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Title	SWIM Messaging interoperability standards compliance SWIM yellow profile Messaging interoperability standards compliance
Status	<In Progress>
Rationale	SWIM yellow profile support only a specific subset of these interoperability standards. In particular: CFMU NOP B2B profile: SOAP 1.1 over HTTP 1.1 and XML over HTTP 1.1;
Category	<Interoperability>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-14.01.04-TS-0901.0790	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-14.01.04-TS-0901.0304	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-14.01.04-TS-0001.0302	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26a	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-3801.0002
Requirement	The AINS system messaging capability shall be able to compress data
Title	SWIM Messaging data compression
Status	<In Progress>
Rationale	The Messaging capability is used to enable data exchanges among geographical distributed entities (wide area deployment). Taking into account this deployment view, performance bottlenecks due to sizing aspects (e.g. number of entities, exchange rate, data size, etc.) could impact the overall messaging performance thus it is suggested to support data compression techniques
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-14.01.04-TS-0001.0021	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26a	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-3801.0003
Requirement	The AINS system messaging capability shall allow invoking a service provider (Request/Response exchange pattern) from the NOP
Title	SWIM Messaging request/response pattern supporting on consumer side
Status	<In Progress>
Rationale	The Messaging capability supports several MEPs (Message Exchange Patterns) including Request-Response. According to this specific MEP, the Messaging capability shall allow two entities, interacting according to the Request-Response, to exchange messages representing “service request/invocation message” (for requesting/consumer entity) and “service response message” (for providing entity). On consumer side, the invocation of a service, provided by another entity, consists in sending a specific “request message”. Therefore, in order to support this specific MEP, it is required that the Messaging capability allows users applications playing the role of requesters to send “request/invocation messages

Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-14.01.04-TS-0001.0350	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26a	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-3801.0004
Requirement	The AINS system technical infrastructure shall be able to support different types of security policies according to data sensitivity levels and/or SWIM profiles at the granularity of SWIM service
Title	Support of Security Policies at SWIM Service granularity
Status	<In Progress>
Rationale	The SWIM Technical Infrastructure is used to enable the exchanging of several types of information among several types of Systems and using the PENS as networking infrastructure. It is reasonable to consider that different SWIM services (or groups of) have different security constraints and that for a given SWIM service there could be different consumers having different authorisation (i.e. a user in a role 'R' has the right to use service 'S') and/or authentication (i.e. a service could be available only to authenticated users or publically available) policies. This requires applying the security policies at granularity of a SWIM service
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-14.01.04-TS-0002.0011	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26a	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-3801.0005
Requirement	The AINS system SWIM Infrastructure shall support service invocations via SOAP Messages over HTTPS
Title	SOAP over HTTPS
Status	<In Progress>
Rationale	Communication based on standard protocols
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-14.01.04-TS-0901.0790	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-14.01.04-TS-0901.0304	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-14.01.04-TS-0901.0328	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26a	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-3801.0006
Requirement	The AINS system shall use the synchronous request-response MEP (message exchange pattern) of the NOP B2B
Title	NOP B2B Request Response MEP
Status	<In Progress>
Rationale	The supported MEP for NOP B2B services
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-14.01.04-TS-0001.0350	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26a	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-3801.0007
Requirement	Communication between CFMU B2B services and service consumers shall be encrypted at the transport level based on SSL
Title	Encrypted Communication of CFMU B2B Services
Status	<In Progress>
Rationale	Data transport security based on encryption and certificates.
Category	<Security>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-14.01.04-TS-0901.0750	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26a	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-3101.0003
Requirement	The AINS system shall use SWIM Yellow profile in order to receive information from NOP (ATV forwarding to Airport).
Title	AINS system compliance with SWIM
Status	<In Progress>
Rationale	In order to guarantee the data consistency between Airports, all the information are exchanged through SWIM
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-14.01.03-TS-PA0T.0021	N/A
<SATISFIES>	<Enabler>	GGSWIM-26a	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-3101.0004
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Requirement	The AINS system, before forwarding the received data to AOP, shall provide the means to the “NOP communication” module to adapt the information related to NOP communication mechanism to the ones used by AOP in order to guarantee consistency between AOP and Network data
Title	AINS system compliance with SWIM
Status	<In Progress>
Rationale	The AINS system have to apply adaptation mechanism when: Exchanged data format with AOP are not the same used by NOP; Exchanged data format is the same both for NOP and AOP, but it is necessary to add also specific information requested by AOP and not provided by CFMU/Network Manager in order to guarantee the correct forwarding of data.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-14.01.03-TS-PA0T.0021	N/A
<SATISFIES>	<Enabler>	GGSWIM-26a	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

## 3.9 Functional Block Interface Requirements

[REQ]

Identifier	REQ-12.06.09-TS-3900.0001
Requirement	The AINS system shall be compliant with SWIM AIRM
Title	AINS system compliance with SWIM AIRM
Status	<In Progress>
Rationale	NM B2B exchange services used by AINS are compliant with SWIM AIRM as defined in WP08 so Ph2 and Ph3 will be compliant.
Category	<Interface>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.05.01-OCD-32100.01	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-3900.0002
Requirement	The AINS system shall be compliant with SWIM ISRM
Title	AINS system compliance with SWIM ISRM
Status	<In Progress>
Rationale	NM B2B exchange services used by AINS are compliant with SWIM ISRM as defined in WP08 so Ph2 and Ph3 will be compliant.
Category	<Interface>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
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<SATISFIES>	<ATMS Requirement>	REQ-06.05.01-OCD-32100.01	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

### 3.9.1 Interface Handling

[REQ]

Identifier	REQ-12.06.09-TS-GeIn.0050
Requirement	The AINS system shall be able to raise an alarm when the communication with the NOP system is lost.
Title	Interface Handling AINS alarm
Status	<In Progress>
Rationale	The requirement has been written in this way to specify the AINS Interface Handling
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

### 3.9.2 Data Emulation Process

Not Applicable

### 3.9.3 Interface Configuration

[REQ]

Identifier	REQ-12.06.09-TS-GeIn.0049
Requirement	The AINS system shall be able to configure the idle time in order to determine whether the communication with the NOP system is lost
Title	Interface Configuration AINS Idle Time
Status	<In Progress>
Rationale	The requirement has been written in this way to specify the AINS Interface Configuration
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

## 4. Assumptions

Nr	Assumption
1)	Development of CDM applications is outside the scope of the project
2)	Development of HMI is outside the scope of the project
3)	Definition of Interface and Data Services is outside the scope of the project
4)	Improvement or provision of any interoperability standard is outside the scope of the project
5)	The NOP component responsible for forwarding data to the airport is 'ATV Forwarding to Airport' (in accordance with 13.02.04-D13-SeNOP Baseline Solution and Architecture Step 2)
6)	The NOP component responsible for receiving data from the airport is 'ATV Reception from Airport' (in accordance with 13.02.04-D13-SeNOP Baseline Solution and Architecture Step 2)
7)	As the prototype is oriented to support the operational concept of information exchange between the AOP and NOP for planned Validation Exercises, features that are under the SWIM yellow profile will not be verified



## 5. References

- [1] Template Toolbox 03.00.00  
<https://extranet.sesarju.eu/Programme%20Library/SESAR%20Template%20Toolbox.dot>
- [2] Requirements and V&V Guidelines 03.00.00  
<https://extranet.sesarju.eu/Programme%20Library/Requirements%20and%20VV%20Guidelines.doc>
- [3] Templates and Toolbox User Manual 03.00.00  
<https://extranet.sesarju.eu/Programme%20Library/Templates%20and%20Toolbox%20User%20Manual.doc>
- [4] EUROCONTROL ATM Lexicon  
<https://extranet.eurocontrol.int/http://atmlexicon.eurocontrol.int/en/index.php/SESAR>
- [5] B.04.03 D95 ADD Step 1 (2014 edition)v. 00.02.02 April 2015
- [6] IEEE / MIL Standards
- [7] SESAR PMP 03.00.02 June 2014
- [8] 14.01.04.D04-SWIM Interfaces specification for Step 1
- [9] 14.01.04.D05-SWIM Technical requirements specification for Step 1 update 1
- [10]06.05.04-D16-OFA05.01.01\_OSED\_ed.3
- [11]06.05.04 D20 OFA05.01.01 INTEROP Edition 2 July 2015
- [12]12.06.09 D03 AINS V2-early prototype - Technical Specification
- [13]13.02.04-D13-SeNOP Baseline Solution and Architecture Step 2
- [14]12.01.07 D30 SESAR 1 Airport Technical Architecture Description June 2016
- [15]12.06.09-D03-AINS V2-early prototype - Technical Specification May 2012
- [16]08.03.10 D65 ISRM 2 0\_Delivery\_Report, March 2016
- [17]12.06.09 D08 Phase 2 Technical Specification (TS), August 2015
- [18]08.01.03 D47 AIRM v4.1.10, May 2016
- [19]14.01.04.D42-004-SWIM-TI- Yellow Profile Technical Specification 3.0
- [20]08.03.10.D65-European ATM Service Description for NetworkOperationPlan Service

### 5.1 Use of copyright / patent material /classified material

N/A

#### 5.1.1 Classified Material

## Appendix A Deleted AINS Requirements

This appendix presents the requirements which have been deleted (in Phase 2 and Phase 3).

The rationale for deleting these requirements is that a) the requirement is no longer applicable and/or b) the requirement has been rewritten according to new 12.06.09 updates.

### [REQ]

Identifier	REQ-12.06.09-TS-3401.0001
Requirement	The AINS system shall not impact others NOP components when a failure of the AOP integrator occurs during the communication from NOP to AOP
Title	AINS system failure propagation
Status	<Deleted>
Rationale	The AOP Integrator is the NOP component responsible of communication between NOP and AOP. A failure occurring in AOP Integrator shall be isolated and any its malfunction due to a failure shall not impact others NOP component responsible of providing other services. The isolation of failure between NOP components is fundamental to prevent failure propagation inside APT systems
Category	<Safety>
Validation Method	<Fast Time Simulation>
Verification Method	<Test>

### [REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-14.01.04-TS-0002.0180	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

### [REQ]

Identifier	REQ-12.06.09-TS-3401.0002
Requirement	The error encountered by the AINS system when forwarding ATV data received from NOP (AOP integrator) to AOP shall be recorded.
Title	Recording of error encountered during ATV data forwarding
Status	<Deleted>
Rationale	The recording of encountered errors during ATV forwarding is necessary to create a database in order  To analyses the failure causes; To identify mitigation means in order to prevent the error in future communications between AOP and NOP To increase the level of Safety of AINS system.
Category	<Safety>
Validation Method	<Fast Time Simulation>
Verification Method	<Test>

### [REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-14.01.04-TS-0001.0090	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

### [REQ]

Identifier	REQ-12.06.09-TS-3401.0003
------------	---------------------------

Requirement	The error encountered by the AINS system when forwarding SBT data received from NOP (AOP integrator) to AOP shall be recorded
Title	Recording of error encountered during SBT data forwarding
Status	<Deleted>
Rationale	The recording of encountered errors during SBT forwarding is necessary to create a database in order  To analyses the failure causes; To identify mitigation means in order to prevent the error in future communications between AOP and NOP To increase the level of Safety of AINS system
Category	<Safety>
Validation Method	<Fast Time Simulation>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-14.01.04-TS-0001.0090	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-3402.0006
Requirement	The AINS system shall take the necessary protective measures to prevent or minimize the impact of hostile acts against systems and data, including support to measures agreed at national and/or international level
Title	Security availability
Status	<Deleted>
Rationale	The AINS system has to guarantee the Security availability of data every time a hostile act against systems and data happens
Category	<Security>
Validation Method	<Fast Time Simulation>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ 112	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-3402.0001
Requirement	The AINS system shall include functionalities to comply with specific national security requirements
Title	Security Regulation
Status	<Deleted>
Rationale	The compliance with specific national regulation is necessary in order to facilitate the integration of AINS system in specific airport and in order to increase the global security level of the Airport systems
Category	<Security>
Validation Method	<Fast Time Simulation>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	IREQ 113	<Full>

<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-3402.0002
Requirement	The AINS system shall guarantee the origin of data.
Title	Security Non-repudiation
Status	<Deleted>
Rationale	The AINS system has to be compliant with SESAR Information Access Services
Category	<Security>
Validation Method	<Fast Time Simulation>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ_ATMSP_100	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-3402.0003
Requirement	The AINS system shall offer guaranteed levels of data security ensuring that sensitive information remains segregated to AOPs that are not connected to SWIM.
Title	Security Confidentially
Status	<Deleted>
Rationale	The AINS system has to guarantee the Security confidentially of exchanged data
Category	<Security>
Validation Method	<Fast Time Simulation>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ_034	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-3402.0004
Requirement	The AINS system shall provide mechanisms to protect the integrity of information
Title	Security information Integrity
Status	<Deleted>
Rationale	The AINS system has to guarantee the Security information Integrity of exchanged data
Category	<Security>
Validation Method	<Fast Time Simulation>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ_050	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-3402.0005
Requirement	The AINS system shall integrate syntactic checking for information managed by SWIM infrastructure.
Title	Security information Integrity thought syntactic checking
Status	<Deleted>
Rationale	The AINS system has to guarantee the Security information Integrity of exchanged data. The syntactic checking represents one of the most common measure used to mitigate security violation
Category	<Security>
Validation Method	<Fast Time Simulation>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ 051	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

The following requirements have been deleted from the section Functional Block Internal Data requirements. The reason is that the requirements from 14.01.04 to wich are linked has been deleted:

[REQ]

Identifier	REQ-12.06.09-TS-3700.0001
Requirement	The AINS system shall be compliant with the communication protocols and standards used in the airport to exchange the information with the external stakeholders of the local airport
Title	The AINS system compliance with the communication protocols and standards
Status	<Deleted>
Rationale	This requirement has been written in order to maintain the coherence of the information handled by the prototype
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-14.01.04-TS-0001.0010	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-3700.0002
Requirement	The AINS system shall be compliant, for the V2-early and V2 stages, with the CFMU B2B model for the information exchanged
Title	The AINS system compliance with the CFMU B2B model
Status	<Deleted>
Rationale	This requirement has been written in order to maintain the coherence of the information handled by the prototype
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-14.01.04-TS-0001.0010	<Partial>

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<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-FInf.0414
Requirement	The AINS system shall be able to receive the a/c Registration Mark (REG) of each flight from NOP and shall update this information on the corresponding ATV in the AOP
Title	Aircraft Registration Reception&Forwarding
Status	<Deleted>
Rationale	The AINS system is responsible for notifying the data received from NOP and to forward them to the AOP. The Aircraft Registration is one of the data that the AINS system has to exchange.  This requirement has been deleted because there was a previous one for the same information.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0111	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLID.0111	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-FInf.0416
Requirement	The AINS system shall be able to receive the ATYP of each flight from NOP and shall update this information on the corresponding ATV in the AOP
Title	Aircraft Type (ICAO Aircraft type) Reception&Forwarding
Status	<Deleted>
Rationale	The AINS system is responsible for notifying the data received from NOP and to forward them to the AOP. The ATYP is one of the data that the AINS system has to exchange. This requirement has been deleted because there was a previous one for the same information.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0113	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLID.0113	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A



The following set of requirements has been deleted taking into account the agreements for the validation exercise EXE-749:

[REQ]

Identifier	REQ-12.06.09-TS-FInf.0419
Requirement	The AINS system shall be able to receive the FL ID next of each flight from AOP
Title	Flight Identification of next movement Reception
Status	<Deleted>
Rationale	The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP. The FL ID of next movement is one of the data that the AINS system has to exchange Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from AOP and forwarding.to NOP..
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0003	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLID.0003	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-FInf.1419
Requirement	The AINS system shall be able to send the FL ID next of each flight to NOP
Title	Flight Identification of next movement Reception&Forwarding
Status	<Deleted>
Rationale	The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP. The FL ID of next movement is one of the data that the AINS system has to exchange This requirement has been created from a common requirement for arrivals and departures. Due to the new indexation, some requirements had been defined specifically for arrivals and departures. Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from AOP and forwarding.to NOP..
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0003	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLID.0003	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A

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<ALLOCATED_TO>	<Project>	12.06.09	N/A
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[REQ]

Identifier	REQ-12.06.09-TS-FInf.0423
Requirement	The AINS system shall be able to receive the FL ID previous of each flight from AOP.
Title	Flight Identification of previous movement Reception
Status	<Deleted>
Rationale	The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP. The FL ID of previous movement is one of the data that the AINS system has to exchange Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from AOP and forwarding.to NOP..
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0004	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLID.0004	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-OFPO.0002
Requirement	The AINS system shall be able to send the Flight Status - CNX of each flight to NOP
Title	Flight Status - CNX Reception&Forwarding
Status	<Deleted>
Rationale	The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP. The Flight Status - CNX is one of the data that the AINS system has to exchange This requirement has been created from a common requirement for arrivals and departures. Due to the new indexation, some requirements had been defined specifically for arrivals and departures. Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from AOP and forwarding.to NOP..
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0028	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLTP.0021	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-OFPO.0024
Requirement	The AINS system shall be able to send the Flight Status - RDY of each flight to NOP.
Title	Flight Status - RDY Reception&Forwarding
Status	<Deleted>
Rationale	The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP. The Flight Status - RDY is one of the data that the AINS system has to exchange Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from AOP and forwarding.to NOP..
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0013	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLTP.0013	
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.6.9-TS-GeIn.0029
Requirement	The AINS system shall log the old data fields of the related ATV for each message received from NOP.
Title	Data Logging Old Data
Status	<Deleted>
Rationale	The requirement has been written in this way to specify the AINS Data Logging Process,
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0021	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLTP.0021	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.6.9-TS-GeIn.0033
Requirement	The AINS system shall log the resultant ATV for each message received from NOP.
Title	Data Logging ATV result
Status	<Deleted>
Rationale	The requirement has been written in this way to specify the AINS Data Logging Process
Category	<Functional>

Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0021	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLTP.0021	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.6.9-TS-GeIn.0016
Requirement	The AINS system shall log the Identification of the related ATV for each message received from NOP.
Title	Data Loggin ATV identification
Status	<Deleted>
Rationale	The requirement has been written in this way to specify the AINS Data Logging Process
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0021	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLTP.0021	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.6.9-TS-FInf.0085
Requirement	The AINS system shall be able to receive the Flight Status - CNX of each arrival flight from NOP.
Title	Flight Status - CNX Reception
Status	<Deleted>
Rationale	The AINS system is responsible for notifying the data received from NOP and to forward them to the AOP. The Flight Status - CNX is one of the data that the AINS system has to exchange. This requirement has been created from a common requirement for arrivals and departures. Due to the new indexation, some requirements had been defined specifically for arrivals and departures. Also this requirement has been divided in other two: Reception from NOP and forwarding.to AOP.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0021	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLTP.0021	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A

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<ALLOCATED TO>	<Project>	12.06.09	N/A
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[REQ]

Identifier	REQ-12.6.9-TS-FInf.0086
Requirement	The AINS system shall be able to receive the Flight Status - INI of each arrival flight from NOP.
Title	Flight Status - INI Reception
Status	<Deleted>
Rationale	The AINS system is responsible for notifying the data received from NOP and to forward them to the AOP. The Flight Status - INI is one of the data that the AINS system has to exchange. This requirement has been created from a common requirement for arrivals and departures. Due to the new indexation, some requirements had been defined specifically for arrivals and departures. Also this requirement has been divided in other two: Reception from NOP and forwarding.to AOP.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0002	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLTP.0002	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.6.9-TS-FInf.0087
Requirement	The AINS system shall be able to receive the Flight Status - AIR of each arrival flight from NOP.
Title	Flight Status - AIR Reception
Status	<Deleted>
Rationale	The AINS system is responsible for notifying the data received from NOP and to forward them to the AOP. The Flight Status - AIR is one of the data that the AINS system has to exchange. Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from NOP and forwarding.to AOP.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0003	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLTP.0003	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

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Identifier	REQ-12.6.9-TS-FInf.0090
Requirement	The AINS system shall be able to receive the Flight Status - DIV of each arrival flight from NOP.
Title	Flight Status - DIV Reception
Status	<Deleted>
Rationale	The AINS system is responsible for notifying the data received from NOP and to forward them to the AOP. The Flight Status - DIV is one of the data that the AINS system has to exchange. Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from NOP and forwarding.to AOP.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0023	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLTP.0023	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.6.9-TS-FInf.0405
Requirement	The AINS system shall be able to receive the FL ID of each flight from NOP and shall update this information on the corresponding ATV in the AOP
Title	Flight identification Reception&Forwarding
Status	<Deleted>
Rationale	The AINS system is responsible for notifying the data received from NOP and to forward them to the AOP. The FL ID is one of the data that the AINS system has to exchange. This requirement has been created from a common requirement for arrivals and departures. Due to the new indexation, some requirements had been defined specifically for arrivals and departures. Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from NOP and forwarding.to AOP..
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0001	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLID.0001	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.6.9-TS-FInf.0185
Requirement	The AINS system shall be able to receive the Flight Status - CNX of each flight from NOP.



Title	Flight Status - CNX Reception
Status	<Deleted>
Rationale	The AINS system is responsible for notifying the data received from NOP to the AOP. The Flight Status (CNX) is one of the data that the AINS system has to exchange. This requirement has been created from a common requirement for arrivals and departures. Due to the new indexation, some requirements had been defined specifically for arrivals and departures. Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from NOP and forwarding.to AOP..
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0021	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLTP.0021	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.6.9-TS-FInf.0186
Requirement	The AINS system shall be able to receive the Flight Status - INI of each flight from NOP.
Title	Flight Status - INI Reception
Status	<Deleted>
Rationale	The AINS system is responsible for notifying the data received from NOP to the AOP. The Flight Status (INI) is one of the data that the AINS system has to exchange. This requirement has been created from a common requirement for arrivals and departures. Due to the new indexation, some requirements had been defined specifically for arrivals and departures. Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from NOP and forwarding.to AOP..
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0002	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLTP.0027	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.6.9-TS-FInf.0505
Requirement	The AINS system shall be able to receive the FL ID of each flight from NOP.

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Title	Flight identification Reception
Status	<Deleted>
Rationale	The AINS system is responsible for notifying the data received from NOP to the AOP. The FL ID is one of the data that the AINS system has to exchange. This requirement has been created from a common requirement for arrivals and departures. Due to the new indexation, some requirements had been defined specifically for arrivals and departures..
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0001	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLID.0001	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

Identifier	REQ-12.6.9-TS-FInf.0506
Requirement	The AINS system shall be able to receive the ARCID of each flight from NOP .
Title	ICAO call sign Reception
Status	<Deleted>
Rationale	The AINS system is responsible for notifying the data received from NOP to the AOP. The ARCID is one of the data that the AINS system has to exchange. This requirement has been created from a common requirement for arrivals and departures. Due to the new indexation, some requirements had been defined specifically for arrivals and departures. Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from NOP and forwarding.to AOP..
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0005	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLID.0005	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.6.9-TS-FInf.1085
Requirement	The AINS system shall be able to forward the Flight Status - CNX of each arrival flight to AOP.
Title	Flight Status - CNX Forwarding
Status	<Deleted>
Rationale	The AINS system is responsible for notifying the data received from NOP and to forward them to the AOP.

	The Flight Status - CNX is one of the data that the AINS system has to exchange. This requirement has been created from a common requirement for arrivals and departures. Due to the new indexation, some requirements had been defined specifically for arrivals and departures. Also this requirement has been divided in other two: Reception from NOP and forwarding.to AOP.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0021	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLTP.0021	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.6.9-TS-FInf.1086
Requirement	The AINS system shall be able to forward the Flight Status - INI of each arrival flight to the AOP.
Title	Flight Status - INI Forwarding
Status	<Deleted>
Rationale	The AINS system is responsible for notifying the data received from NOP and to forward them to the AOP. The Flight Status - INI is one of the data that the AINS system has to exchange. This requirement has been created from a common requirement for arrivals and departures. Due to the new indexation, some requirements had been defined specifically for arrivals and departures. Also this requirement has been divided in other two: Reception from NOP and forwarding.to AOP.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0002	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLTP.0002	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.6.9-TS-FInf.1087
Requirement	The AINS system shall be able to forward the Flight Status - AIR of each arrival flight to the AOP.
Title	Flight Status - AIR Forwarding
Status	<Deleted>
Rationale	The AINS system is responsible for notifying the data received from NOP and to forward them to the AOP. The Flight Status - AIR is one of the data that the AINS system has to exchange. Instead of the previous specification of this requirement that contains the

	reception and forwarding of the information, this requirement has been divided in two: Reception from NOP and forwarding.to AOP.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0003	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLTP.0003	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.6.9-TS-FInf.1090
Requirement	The AINS system shall be able to forward the Flight Status - DIV of each arrival flight to the AOP.
Title	Flight Status - DIV Forwarding
Status	<Deleted>
Rationale	The AINS system is responsible for notifying the data received from NOP and to forward them to the AOP. The Flight Status - DIV is one of the data that the AINS system has to exchange. Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from NOP and forwarding.to AOP.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0023	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLTP.0023	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-3136.0002
Requirement	The AINS system shall forward the ELDT data to AOP in order to update the SBT
Title	SBT updating through ELDT data to AOP
Status	<Deleted>
Rationale	The AINS system is responsible of to notify the update data received from an AOP in a specific Airport and to forward them the AOPs through NOP to the others Airport connected to SWIM network. The ELDT is one the data that the AINS system has to be exchange in order to estimate the aircraft landing time and update the SBT accordingly. This requirement has been validated in the following validation Exercises: EXE-609: Dynamically update the NOP/AOP using target time of Arrival (TTA) procedure. EXE-013: Validation of the Monitor and Manage Airport Performance Services Extended to the Aiport Processes.

	EXE-549: Integration of landside process information into the AOP. EXE-010: Integrated Validation of the DCB Monitoring & Management Process. EXE-757: APOC Performance Monitoring & Management.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>
Remarks	The requirements whose traceability was based on an old document, the trace has been updated for the current Phase with an OSED Ed.3 IER

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP.0201	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLTP.0201	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS- 3134.0002
Requirement	The AINS system shall forward the origin airport ICAO code data to AOP in order to identify the airport of destination linked to SBT
Title	Origin airport ICAO code data linked to the inbound flight of the SBT
Status	<Deleted>
Rationale	The AINS system is responsible of to notify the update data received from an AOP in a specific Airport and to forward them the AOPs through NOP to the others Airport connected to SWIM network. The origin airport ICAO code is one the data that the AINS system has to be exchange in order to identify the airport of destination linked to SBT This requirement has been created from a common requirement for arrivals and departures. Due to the new indexation, some requirements had been defined specifically for arrivals and departures. This requirement has been validated in the following validation Exercises: EXE-609: Dynamically update the NOP/AOP using target time of Arrival (TTA) procedure. EXE-013: Validation of the Monitor and Manage Airport Performance Services Extended to the Aiport Processes. EXE-549: Integration of landside process information into the AOP. EXE-010: Integrated Validation of the DCB Monitoring & Management Process. EXE-757: APOC Performance Monitoring & Management.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>
Remarks	The requirements whose traceability was based on an old document, the trace has been updated for the current Phase with an OSED Ed.3 IER.

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0201	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLID.0201	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-3133.0001
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Requirement	The AINS system shall forward the ICAO a/c type data to AOP in order to identify the aircraft type linked to the SBT
Title	Aircraft type linked to the SBT identification
Status	<Deleted>
Rationale	<p>The AINS system is responsible of to notify the update data received from an AOP in a specific Airport and to forward them the AOPs through NOP to the others Airport connected to SWIM network.</p> <p>The ICAO a/c type is one the data that the AINS system has to be exchange in order to identify the aircraft type linked to the SBT</p> <p>This requirement has been created from a common requirement for arrivals and departures. Due to the new indexation, some requirements had been defined specifically for arrivals and departures.</p> <p>This requirement has been validated in the following validation Exercises: EXE-609: Dynamically update the NOP/AOP using target time of Arrival (TTA) procedure. EXE-013: Validation of the Monitor and Manage Airport Performance Services Extended to the Aiport Processes. EXE-549: Integration of landside process information into the AOP. EXE-010: Integrated Validation of the DCB Monitoring &amp; Management Process. EXE-757: APOC Performance Monitoring &amp; Management.</p>
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>
Remarks	The requirements whose traceability was based on an old document, the trace has been updated for the current Phase with an OSED Ed.3 IER

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0113	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLID.0113	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-3132.0002
Requirement	The AINS system shall forward the a/c registration data to AOP in order to update SBT
Title	SBT updating with a/c registration data
Status	<Deleted>
Rationale	<p>The AINS system is responsible of to notify the update data received from an AOP in a specific Airport and to forward them the AOPs through NOP to the others Airport connected to SWIM network.</p> <p>The a/c registration is one the data that the AINS system has to be exchange in order to update SBT</p> <p>This requirement has been created from a common requirement for arrivals and departures. Due to the new indexation, some requirements had been defined specifically for arrivals and departures.</p> <p>This requirement has been validated in the following validation Exercises: EXE-609: Dynamically update the NOP/AOP using target time of Arrival (TTA) procedure. EXE-013: Validation of the Monitor and Manage Airport Performance Services Extended to the Aiport Processes. EXE-549: Integration of landside process information into the AOP. EXE-010: Integrated Validation of the DCB Monitoring &amp; Management Process. EXE-757: APOC Performance Monitoring &amp; Management.</p>



Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>
Remarks	The requirements whose traceability was based on an old document, the trace has been updated for the current Phase with an OSED Ed.3 IER

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0111	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLID.0111	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.6.9-TS-FInf.1405
Requirement	The AINS system shall be able to forward the FL ID of each flight to the AOP
Title	
Status	<Deleted>
Rationale	The AINS system is responsible for notifying the data received from NOP and to forward them to the AOP. The FL ID is one of the data that the AINS system has to exchange. This requirement has been created from a common requirement for arrivals and departures. Due to the new indexation, some requirements had been defined specifically for arrivals and departures. Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from NOP and forwarding.to AOP..
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0001	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLID.0001	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS- 3134.0102
Requirement	The AINS system shall forward the origin airport ICAO code data (ADEP) to AOP in order to identify the airport of destination linked to SBT
Title	Origin airport ICAO code (ADEP) data linked to the inbound flight of the SBT
Status	<Deleted>
Rationale	The AINS system is responsible of to notify the update data received from an AOP in a specific Airport and to forward them the AOPs through NOP to the others Airport connected to SWIM network. The origin airport ICAO code is one the data that the AINS system has to be exchange in order to identify the airport of destination linked to SBT This requirement has been created from a common requirement for arrivals and departures. Due to the new indexation, some requirements had been defined specifically for arrivals and departures. This requirement has been validated in the following validation Exercises: EXE-609: Dynamically update the NOP/AOP using target time of Arrival (TTA) procedure.

	EXE-013: Validation of the Monitor and Manage Airport Performance Services Extended to the Aiport Processes. EXE-549: Integration of landside process information into the AOP. EXE-010: Integrated Validation of the DCB Monitoring & Management Process. EXE-757: APOC Performance Monitoring & Management.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>
Remarks	The requirements whose traceability was based on an old document, the trace has been updated for the current Phase with an OSED Ed.3 IER

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0201	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLID.0201	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-3133.0101
Requirement	The AINS system shall forward the ICAO a/c type data to AOP in order to identify the aircraft type linked to the SBT
Title	Aircraft type linked to the SBT identification
Status	<Deleted>
Rationale	The AINS system is responsible of to notify the update data received from an AOP in a specific Airport and to forward them the AOPs through NOP to the others Airport connected to SWIM network. The ICAO a/c type is one the data that the AINS system has to be exchange in order to identify the aircraft type linked to the SBT This requirement has been created from a common requirement for arrivals and departures. Due to the new indexation, some requirements had been defined specifically for arrivals and departures. This requirement has been validated in the following validation Exercises: EXE-609: Dynamically update the NOP/AOP using target time of Arrival (TTA) procedure. EXE-013: Validation of the Monitor and Manage Airport Performance Services Extended to the Aiport Processes. EXE-549: Integration of landside process information into the AOP. EXE-010: Integrated Validation of the DCB Monitoring & Management Process. EXE-757: APOC Performance Monitoring & Management.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>
Remarks	The requirements whose traceability was based on an old document, the trace has been updated for the current Phase with an OSED Ed.3 IER.

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0113	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLID.0113	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-3132.0102
Requirement	The AINS system shall forward the a/c registration data to AOP in order to update SBT
Title	SBT updating with a/c registration data
Status	<Deleted>
Rationale	<p>The AINS system is responsible of to notify the update data received from an AOP in a specific Airport and to forward them the AOPs through NOP to the others Airport connected to SWIM network.</p> <p>The a/c registration is one the data that the AINS system has to be exchange in order to update SBT</p> <p>This requirement has been created from a common requirement for arrivals and departures. Due to the new indexation, some requirements had been defined specifically for arrivals and departures.</p> <p>This requirement has been validated in the following validation Exercises: EXE-609: Dynamically update the NOP/AOP using target time of Arrival (TTA) procedure. EXE-013: Validation of the Monitor and Manage Airport Performance Services Extended to the Aiport Processes. EXE-549: Integration of landside process information into the AOP. EXE-010: Integrated Validation of the DCB Monitoring &amp; Management Process. EXE-757: APOC Performance Monitoring &amp; Management.</p>
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>
Remarks	The requirements whose traceability was based on an old document, the trace has been updated for the current Phase with an OSED Ed.3 IER

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0111	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLID.0111	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.6.9-TS-FlInf.1505
Requirement	The AINS system shall be able to forward the FL ID of each flight to the AOP
Title	FL ID Identifier Forwarding
Status	<Deleted>
Rationale	<p>The AINS system is responsible for notifying the data received from NOP and to forward them to the AOP.</p> <p>The FL ID is one of the data that the AINS system has to exchange.</p> <p>This requirement has been created from a common requirement for arrivals and departures. Due to the new indexation, some requirements had been defined specifically for arrivals and departures.</p> <p>Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from NOP and forwarding.to AOP..</p>
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0001	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLID.0001	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-3137.0002
Requirement	The AINS system shall forward the EOBT data to AOP in order to update the SBT
Title	SBT updating through EOBT data to AOP
Status	<Deleted>
Rationale	<p>The AINS system is responsible of to notify the update data received from an AOP in a specific Airport and to forward them the AOPs through NOP to the others Airport connected to SWIM network.</p> <p>The EOBT is one the data that the AINS system has to be exchange in order to estimate the off block time and to update the SBT accordingly.</p> <p>This requirement has been validated in the following validation Exercises:                      EXE-609: Dynamically update the NOP/AOP using target time of Arrival (TTA) procedure.                      EXE-013: Validation of the Monitor and Manage Airport Performance Services Extended to the Aiport Processes.                      EXE-549: Integration of landside process information into the AOP.                      EXE-010: Integrated Validation of the DCB Monitoring &amp; Management Process.                      EXE-757: APOC Performance Monitoring &amp; Management.</p>
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>
Remarks	The requirements whose traceability was based on an old document, the trace has been updated for the current Phase with an OSED Ed.3 IER

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLTP 0212	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLTP.0212	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-OFPO.0022
Requirement	The AINS system shall be able to receive the DEST of each flight from AOP.
Title	Aerodrome of Destination (IATA) Reception
Status	<Deleted>
Rationale	<p>The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP.</p> <p>The Aerodrome of Destination is one of the data that the AINS system has to exchange.</p> <p>This requirement has been created from a common requirement for arrivals and departures. Due to the new indexation, some requirements had been defined specifically for arrivals and departures.</p> <p>Instead of the previous specification of this requirement that contains the</p>

	reception and forwarding of the information, this requirement has been divided in two: Reception from AOP and forwarding.to NOP. This requirement has been verified. It will be Validated in EXE-749:.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0204	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLID.0204	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-OFPO.0121
Requirement	The AINS system shall be able to receive the DEP of each flight from AOP.
Title	Aerodrome of Departure (IATA) Reception
Status	<Deleted>
Rationale	The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP. The Aerodrome of Departure is one of the data that the AINS system has to exchange. This requirement has been created from a common requirement for arrivals and departures. Due to the new indexation, some requirements had been defined specifically for arrivals and departures. Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from AOP and forwarding.to NOP. This requirement has been verified. It will be Validated in EXE-749:.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0203	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLID.0203	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.6.9-TS-Flnf.1423
Requirement	The AINS system shall be able to send the FL ID previous of each flight to NOP
Title	Flight Identification of previous movement Reception&Forwarding
Status	<Deleted>
Rationale	The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP. The FL ID of previous movement is one of the data that the AINS system has to exchange Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been

	divided in two: Reception from AOP and forwarding.to NOP. This requirement has been verified. It will be Validated in EXE-749:.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0004	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLID.0004	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.6.9-TS-FInf.0425
Requirement	The AINS system shall be able to send the ADST to NOP.
Title	Airport Departure Slot Time Reception&Forwarding
Status	<Deleted>
Rationale	The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP. The SOBT is one of the data that the AINS system has to exchange. Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from AOP and forwarding.to NOP. This requirement has been verified. It will be Validated in EXE-749:.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0105	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLID.0105	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-OFPO.1022
Requirement	The AINS system shall be able to send the DEST of each flight to NOP.
Title	Aerodrome of Destination (IATA) Reception&Forwarding
Status	<Deleted>
Rationale	The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP. The Aerodrome of Destination is one of the data that the AINS system has to exchange. This requirement has been created from a common requirement for arrivals and departures. Due to the new indexation, some requirements had been defined specifically for arrivals and departures.. Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from AOP and forwarding.to NOP. This requirement has been verified. It will be Validated in EXE-749:.
Category	<Functional>



Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0204	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLID.0204	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.06.09-TS-OFPO.1121
Requirement	The AINS system shall be able to send the DEP of each flight to NOP.
Title	Aerodrome of Departure (IATA) Reception&Forwarding
Status	<Deleted>
Rationale	The AINS system is responsible for notifying the data received from AOP and to forward them to the NOP. The Aerodrome of Departure is one of the data that the AINS system has to exchange. This requirement has been created from a common requirement for arrivals and departures. Due to the new indexation, some requirements had been defined specifically for arrivals and departures. Instead of the previous specification of this requirement that contains the reception and forwarding of the information, this requirement has been divided in two: Reception from AOP and forwarding.to NOP. This requirement has been verified. It will be Validated in EXE-749:..
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0203	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.05.04-INTEROP-FLID.0203	<Full>
<SATISFIES>	<Enabler>	GGSWIM-26A	<Full>
<ALLOCATED_TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	12.06.09	N/A

[REQ]

Identifier	REQ-12.6.9-TS-FInf.0406
Requirement	The AINS system shall be able to receive the ARCID of each flight from NOP and shall update this information on the corresponding ATV in the AOP
Title	ICAO call sign Reception&Forwarding
Status	<Deleted>
Rationale	The AINS system is responsible for notifying the data received from NOP and to forward them to the AOP. The ARCID is one of the data that the AINS system has to exchange.
Category	<Functional>
Validation Method	<Live Trial>
Verification Method	<Test>

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
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<SATISFIES>	<Information Exchange Requirement>	IER-06.05.04-OSED-FLID.0005	<Full>
<ALLOCATED TO>	<Functional block>	G-G Communications	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A

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