



# European ATM Service Description for the METREPORT Service

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## **Abstract**

The METREPORT service covers the dissemination of standard ICAO Annex 3 meteorological local routine (METREPORT) and special (SPECIAL) bulletins over SWIM. This service aims therefore at bringing the benefits of increased interoperability via SWIM to the MET Community of Interest. Service design has been performed in the context of Service Activity SVA003 entailing Airport Meteorological and Surface Contamination services.

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Rational for rejection

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## Executive summary

This document is the result of the “Service Design” step of the B.4.3 Working Method on Services for the METREPORT Service. The document provides a comprehensive logical specification for system engineers on how to realize the dissemination of MET data over SWIM.

The service was delivered as part of ISRM 1.4 under the name ICAOMetLocalReport. For ISRM 2.0, the service has been renamed to METREPORT.

The METREPORT service covers the dissemination over SWIM of standard ICAO METREPORT bulletins over SWIM to a wide range of subscribing ATM users. This service aims therefore at bringing the benefits of increased interoperability via SWIM into the MET community of interest. Service design has been performed in the context of the SESAR Service Activity “SVA003” entailing Airport Meteorological and Surface Contamination services.

SVA003 has happened in the frame of the SESAR MET Coordination Group and has seen the participation of a good number of different partners, both Operational and System, from OFA5.1.1 (WP6 and WP12) and WP11.2.

Edition 1.0 for this SDD was first published in ISRM 1.4 (using the old name ICAOMetLocalReport) and was used as reference for SESAR validation exercise EXE-06.03.01-VP-669 (SESAR R5). This edition wraps all quality improvements for delivery with the final SESAR ISRM 2.0.

# 1 Introduction

## 1.1 Purpose of the document

The purpose of this SDD is to provide a complete logical description of the METREPORT Service, its operational context, its basic architectural features, its dynamical aspects, its operations and the data provided. All these aspects are presented as model views according to the ISRM UML EATMA Profile, which organize knowledge about a service into views inspired by the NAF Framework.

This SDD serves as a complement to a model based description and supports the configuration management process by providing well-defined baselines.

The logical service model presented in this SDD edition is part of the ISRM 2.0 release, and provides a blueprint which service developers must follow in order to create SWIM-Compliant implementations of the METREPORT Service.

The service presented will be a part of the Service Portfolio. The Service Portfolio presents all services that are available or are planned to become available at a high level.

## 1.2 Intended readership

SESAR Deployment Manager, SCG, the OPS and SYS projects participating in the SVA003 Team, Service Architects, Information Architects, System Engineers and Developers in pursuing architecting, design and development activities.

## 1.3 Inputs from other projects

N/A

## 1.4 Glossary of terms

N/A

## 1.5 Acronyms and Terminology

### 1.5.1 Acronyms

Term	Definition
ADD	Architecture Description Document
ATM	Air Traffic Management
CC	Capability Configuration
EATMA	European Air Traffic Management Architecture
E-ATMS	European Air Traffic Management System
FAA	Federal Aviation Administration
IER	Information Exchange Requirement

Term	Definition
<b>ISRM</b>	Information Service Reference Model
<b>IWXXM</b>	ICAO Weather Information Exchange Model
<b>METREPORT</b>	Meteorological local routine report following ICAO Annex 3 format
<b>MG</b>	ISRM Modelling Guidelines
<b>NAF</b>	NATO Architecture Framework
<b>NSOV</b>	NATO Service Oriented View
<b>NOV</b>	NATO Operational View
<b>NSV</b>	NATO System View
<b>OSED</b>	Operational Service and Environment Definition
<b>QoS</b>	Quality of Service
<b>SAR</b>	Service Allocation Report
<b>SCG</b>	Service Coordination Group
<b>SDD</b>	Service Description Document
<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>SIR</b>	Service Identification Report
<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>SPECIAL</b>	Meteorological local special report following ICAO Annex 3 format
<b>SWIM</b>	System Wide Information Management
<b>UML</b>	Unified Modelling Language
<b>V&amp;V</b>	Validation and Verification
<b>WSDL</b>	Web Services Definition Language
<b>XSD</b>	XML Schema Definition



## 1.5.2 Terminology

Term	Definition	Source
<b>Capability</b>	Capability is the ability of one or more of the enterprise's resources to deliver a specified type of effect or a specified course of action to the enterprise stakeholders.	EATMA Guidance Material [13]
<b>Capability Configuration</b>	A Capability Configuration is a combination of Roles and Systems configured to provide a Capability derived from operational and/or business need(s) of a stakeholder type.	EATMA Guidance Material [13]
<b>Node</b>	A logical entity that performs Activities. Note: nodes are specified independently of any physical realisation.	EATMA Guidance Material [13]
<b>Service</b>	The contractual provision of something (a non-physical object), by one, for the use of one or more others. Services involve interactions between providers and consumers, which may be performed in a digital form (data exchanges) or through voice communication or written processes and procedures.	EATMA Guidance Material [13]
<b>Service function</b>	A type of activity describing the functionality of a Service.	EATMA Guidance Material [13]
<b>Service interface</b>	The mechanism by which a service communicates	EATMA Guidance Material [13]

## 2 Service identification

Name	METREPORT
ID	{85A9C2D1-46F5-487a-B449-E9DB44F3CE91}
Version	2.0
Keywords	METREPORT, SPECIAL, Airport Meteorological Observation, MET ICAO Product
Architect(s)	██████████ FINMECCANICA

Lifecycle status	Date	References
Identified	09/11/2015	See reference [3]
Allocated	04/12/2015	See reference [4]
Designed	31/05/2016	This document
Validated	03/03/2016	See reference [16]
IOC	<i>Date for Initial Operational Capability</i>	<i>Reference to technical enabler hosting the service in the ATM master plan</i>
FOC	<i>Date for Full Operational Capability</i>	<i>Reference to technical enabler hosting the service in the ATM master plan</i>

### 3 Operational and Business context

The local routine (METREPORT) and special (SPECIAL) reports are routine observations made at an aerodrome throughout the day. Local routine reports shall be transmitted to local air traffic services units and shall be made available to the operators and to other users at the aerodrome. The scope and usage of METREPORT/SPECIAL is the aerodrome. See ICAO Annex 3 [14].

The requirements for the provision of a service for dissemination of the METREPORT/SPECIAL bulletins of interest for airport operations and the full business and operational context for this service is given by the P06.05.04 OSED[1][2]. It is also been described in the SVA003 Service Identification Report (SIR) [3] and has been elaborated further in the SVA003 Service Allocation Report (SAR) [4]. These documents in particular have already covered:

- a description of what ATM goals and problems the service addresses;
- business level capabilities the service will realise can be inserted;
- the positioning of the service into the SESAR technical Architecture (ADD and TADs);
- the link to Operational Improvements;
- the list of IERs, operational and non-functional requirements from source documents;
- the relevance to the SESAR MET Coordination Group, and the linkage to the “2013 MET Issue Resolution”;
- the prototyping and validation triggers from within the Programme.

### 3.1 Information Exchange Requirements

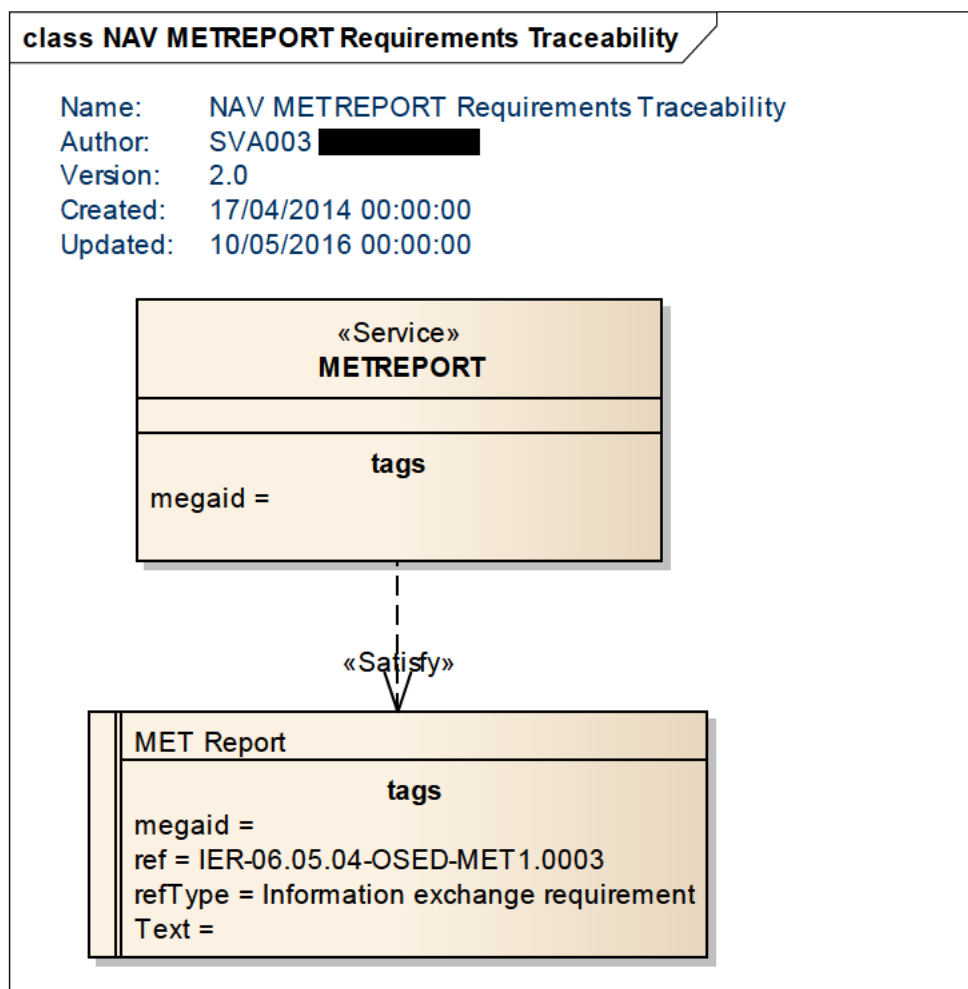


Figure 1: NAV METREPORT Service Requirements Traceability IER Diagram

### 3.2 Other Requirements

#### 3.2.1 Non-Functional Requirements

N/A.

#### 3.2.2 Relevant Industrial Standards

N/A.

#### 3.2.3 Nodes

The EATMA nodes specified in the service are shown in the NOV-2 METREPORT Service To Nodes Mapping diagram below:

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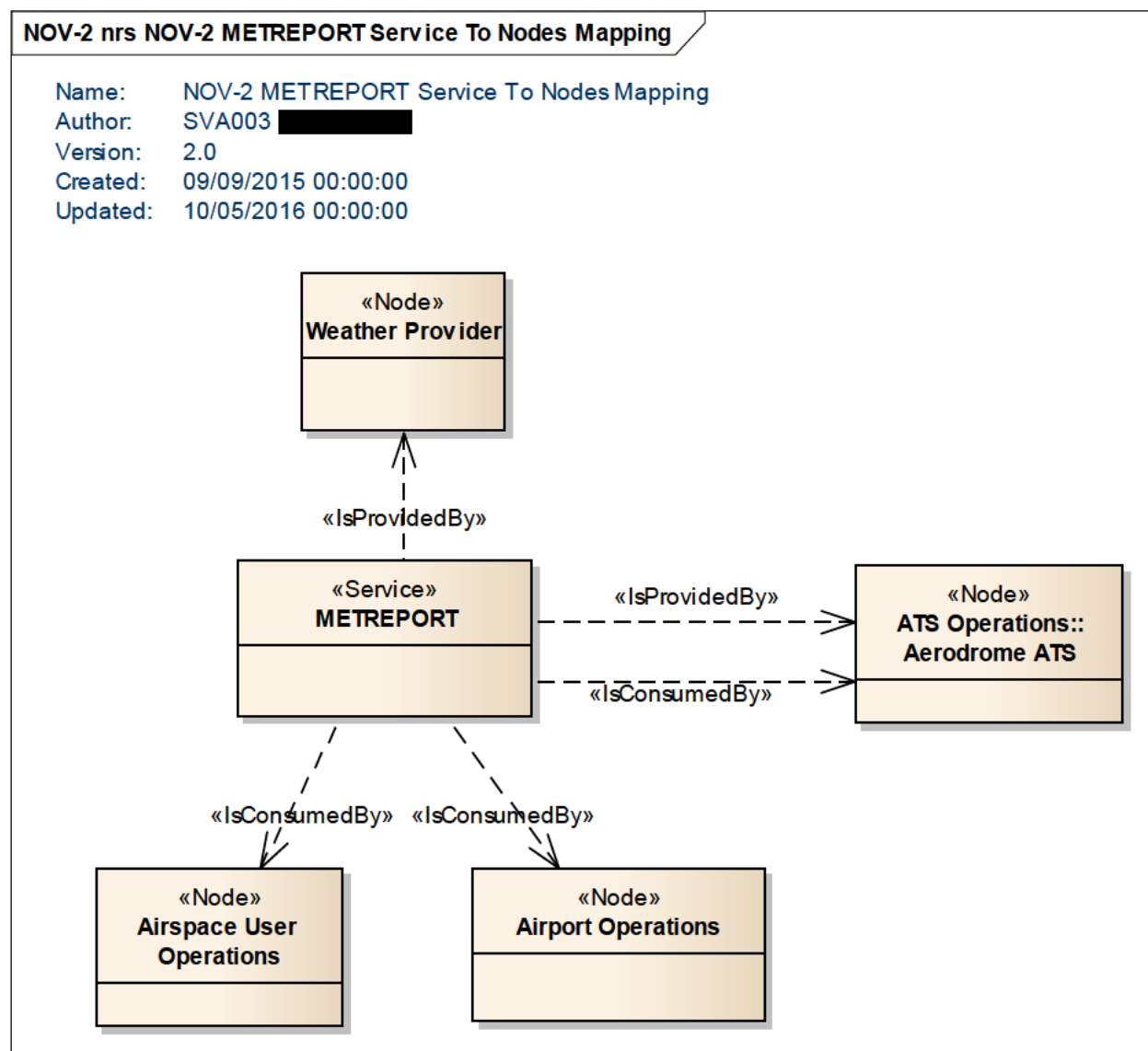


Figure 2: NOV-2 METREPORT Service to Nodes Mapping diagram

## 4 Service overview

### 4.1 Service Taxonomy

The service taxonomy is described in the ISRM Service Portfolio document [5].

### 4.2 Service Levels (NfRs)

N/A.

### 4.3 Service Functions and Capabilities

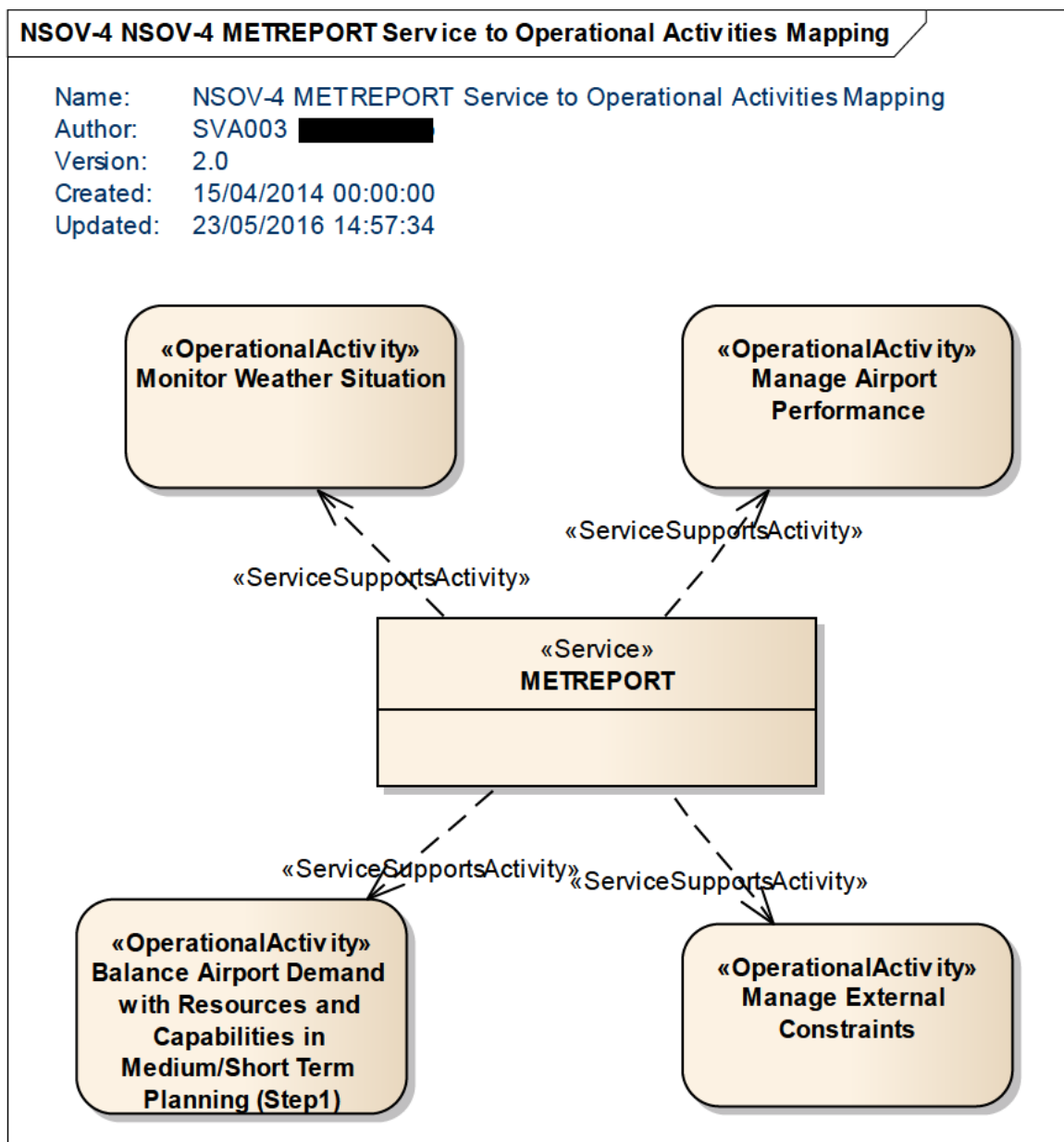


Figure 3: NSOV-4 METREPORT Service to Operational Activities Mapping diagram

For the service to capabilities mapping, see the NSOV-2 Service Interface Definition diagram in Section 4.4.

## 4.4 Service Interfaces

The service is based on a single pub/sub interface. The METREPORTPublisher service interface definition allows the consumer to subscribe or unsubscribe to the data, while the METREPORTSubscriber service interface definition allows the service provider to publish the message containing the data. The messages for subscription and unsubscription are only logical abstract wrappers, since the actual management of the publication mechanism is done at the level of the SWIM Technical Infrastructure.

Name: NSOV-2 METREPORT Interface Definition  
 Author: SVA003  
 Version: 2.0  
 Created: 15.04.2014 00:00:00  
 Updated: 26.05.2016 00:00:00

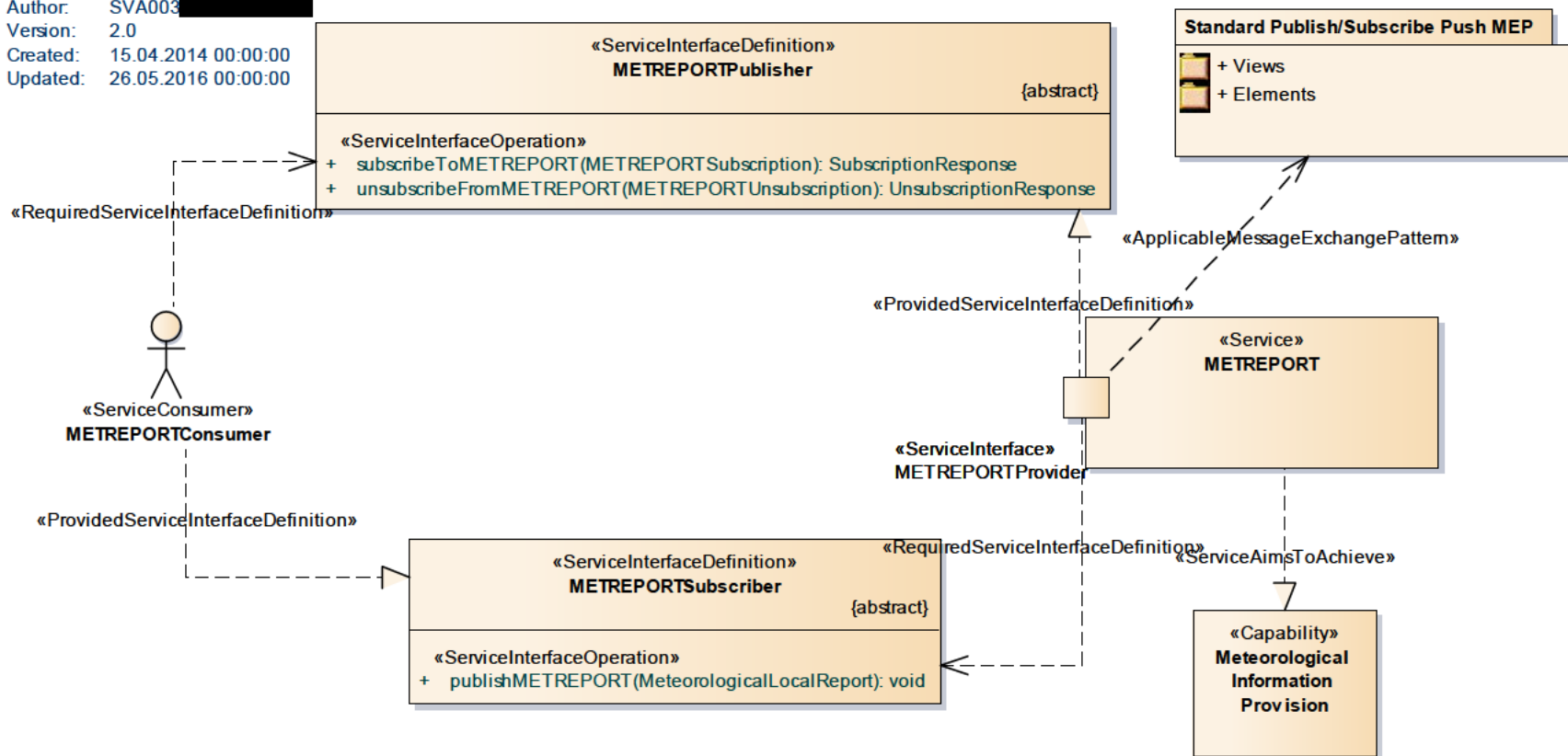


Figure 4: NSOV-2 METREPORT Service Interface Definition diagram

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ServiceInterface	ServiceInterfaceDefinition	ServiceInterfaceOperation	Role
METREPORTProvider	METREPORTPublisher	subscribeToMETREPORT	provided
METREPORTProvider	METREPORTPublisher	unsubscribeFromMETREPORT	provided
METREPORTProvider	METREPORTSubscriber	publishMETREPORT	required

**Table 1: Service Interfaces**

## 5 Service interface specifications

### 5.1 Service Interface METREPORTProvider

This is the only interface for this service. It implements the Standard Publish/Subscribe Push message exchange pattern, and exposes two service interface definitions, one for the provider and one for the consumer side.

#### 5.1.1 Service Interface Definition METREPORTPublisher

This interface definition allows a consumer to subscribe or unsubscribe from the provision of the service message.

##### 5.1.1.1 Operation subscribeToMETREPORT

The service operation allows the service consumer to subscribe to a particular METREPORT/SPECIAL bulletin.

###### 5.1.1.1.1 Operation Functionality

The service operation allows the consumer to select the desired airport for which he desires a METREPORT/SPECIAL bulletin.

###### 5.1.1.1.2 Operation Parameters

The operation has been modelled with a return type representing the generic outcome for a subscription.

Element Name	Author	Notes
METREPORTSubscription	SVA003 [REDACTED]	Message for the Subscription
SubscriptionResponse	SVA003 [REDACTED]	Reply to the subscription operation.

Table 2: Payload elements for the subscribeToMETREPORT operation

##### 5.1.1.2 Operation unsubscribeFromMETREPORT

The service operation allows the service consumer to unsubscribe from the service.

###### 5.1.1.2.1 Operation Functionality

The service operation allows the consumer to select the desired airport for which he does not want METREPORT bulletins anymore.

###### 5.1.1.2.2 Operation Parameters

The operation has been modelled with a return type representing the generic outcome for an unsubscription.

Element Name	Author	Notes
METREPORTUnsubscription	SVA003 [REDACTED]	Message for the Unsubscription
UnsubscriptionResponse	SVA003 [REDACTED]	Reply to the unsubscription operation.

Table 3: Payload elements for the unsubscribeFromMETREPORT operation

## 5.1.2 Service Interface Definition METREPORTSubscriber

This interface definition allows the provider to publish the METREPORT.

### 5.1.2.1 Operation publishMETREPORT

The service operation allows the service consumer to receive a notification for a new METREPORT which he has subscribed to.

#### 5.1.2.1.1 Operation Functionality

The service operation simply allows the consumer to access a pre-subscribed new METREPORT available from the MET provider.

#### 5.1.2.1.2 Operation Parameters

The operation has been modelled without a return type. The operation has a single input parameter MeteorologicalLocalReport which represents the full service payload.

Element Name	Author	Notes
MeteorologicalLocalReport	SVA003	Publication message for the ICAO Annex 3 local routine (MET REPORT) or special (SPECIAL) reports.

**Table 4: Payload element for the publishMETREPORT operation**

The relevant EntityItems with attributes and relationships are rendered in Figure 5 below. Details for the EntityItems and the payload tracing to AIRM are provided in Table 5 below. The tagged values show the linked AIRM class.

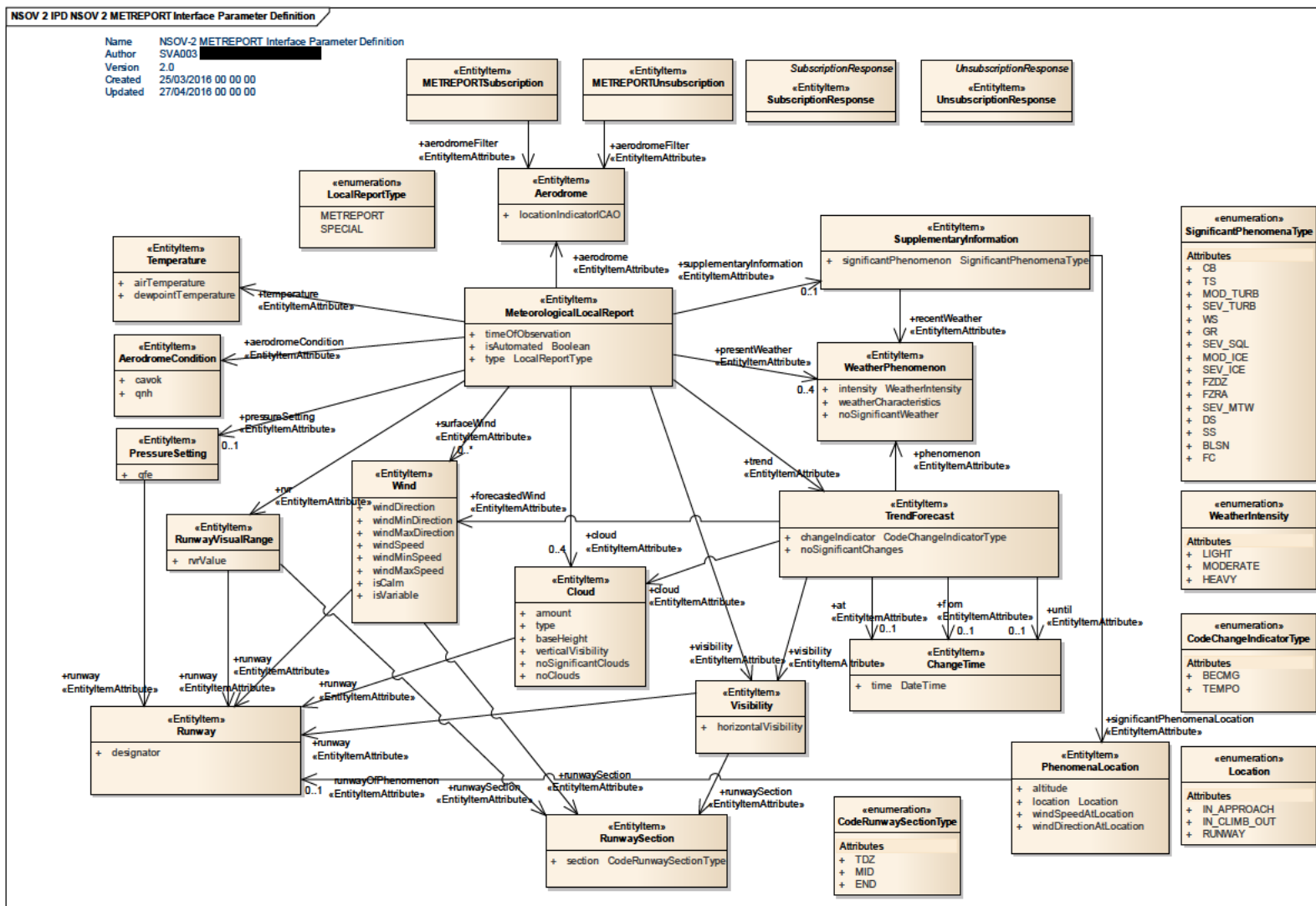


Figure 5: NSOV-2 METREPORT Service Interface Parameter Definition diagram

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Element Name	Author	Notes	
PhenomenaLocation	SVA003 [REDACTED]	The location where the significant phenomena takes place, including wind information.	
	<b>Element Tagged Value Name</b>	<b>Value</b>	
	CLDMSemanticTrace	CLDM_out_of_scope	
	<b>Attribute Name</b>	<b>Type</b>	<b>Notes</b>
	altitude		Altitude of the significant phenomenon when it happens in approach or climb-out.
	<b>Tagged Value Name</b>	<b>Value</b>	
	CLDMSemanticTrace	urn:x-ses:sesarju:airm:v410:ConsolidatedLogicalDataModel:SubjectFields:Meteorology:WeatherPhenomenon@position	
	<b>Attribute Name</b>	<b>Type</b>	<b>Notes</b>
	location	Location	
	<b>Tagged Value Name</b>	<b>Value</b>	
	CLDMSemanticTrace	CLDM_out_of_scope	
	<b>Attribute Name</b>	<b>Type</b>	<b>Notes</b>
	windSpeedAtLocation		Wind speed at the location where the significant phenomenon occurs.
	<b>Tagged Value Name</b>	<b>Value</b>	
	CLDMSemanticTrace	urn:x-ses:sesarju:airm:v410:ConsolidatedLogicalDataModel:SubjectFields:Meteorology:Wind@windSpeed	
	<b>Attribute Name</b>	<b>Type</b>	<b>Notes</b>
	windDirectionAtLocation		Wind direction at the location where the significant phenomenon occurs.
	<b>Tagged Value Name</b>	<b>Value</b>	
	CLDMSemanticTrace	urn:x-ses:sesarju:airm:v410:ConsolidatedLogicalDataModel:SubjectFields:Meteorology:Wind@windDirection	
Element Name	Author	Notes	
SubscriptionResponse	SVA003 [REDACTED]	Reply to the subscription operation.	
	<b>Element Tagged Value Name</b>	<b>Value</b>	
	CLDMSemanticTrace	CLDM_out_of_scope	
Element Name	Author	Notes	
UnsubscriptionResponse	SVA003 [REDACTED]	Reply to the unsubscription operation.	
	<b>Element Tagged Value Name</b>	<b>Value</b>	
	CLDMSemanticTrace	CLDM_out_of_scope	
Element Name	Author	Notes	
Cloud	SVA003 [REDACTED]	Feature describing the cloud conditions for cloud of operational significance.	
	<b>Element Tagged Value Name</b>	<b>Value</b>	
	CLDMSemanticTrace	urn:x-ses:sesarju:airm:v410:ConsolidatedLogicalDataModel:SubjectFields:Meteorology:Cloud	
	<b>Attribute Name</b>	<b>Type</b>	<b>Notes</b>
	amount		Fraction of the sky covered by the clouds of a certain genus, species, variety, layer or combination of clouds.
	<b>Tagged Value Name</b>	<b>Value</b>	
	CLDMSemanticTrace	urn:x-ses:sesarju:airm:v410:ConsolidatedLogicalDataModel:Subje	

		ctFields:Meteorology:Cloud@cloudAmount	
Attribute Name	Type	Notes	
type		Categorization of the cloud depending on its main characteristics.	
Tagged Value Name	Value		
CLDMSemanticTrace	urn:x- ses:sesarju:airm:v410:ConsolidatedLogicalDataModel:SubjectFields:Meteorology:Cloud@cloudType		
Attribute Name	Type	Notes	
baseHeight		Altitude of the lowest level of the description of a phenomenon.	
Tagged Value Name	Value		
CLDMSemanticTrace	urn:x- ses:sesarju:airm:v410:ConsolidatedLogicalDataModel:SubjectFields:Meteorology:Cloud@base		
Attribute Name	Type	Notes	
verticalVisibility		Maximum distance at which an observer can see and identify an object on the same vertical as himself, above or below. The vertical visibility should be reported in steps of 30 m (100 ft) up to 600 m (2 000 ft).	
Tagged Value Name	Value		
CLDMSemanticTrace	urn:x- ses:sesarju:airm:v410:ConsolidatedLogicalDataModel:SubjectFields:Meteorology:AviationCondition@verticalVisibility		
Attribute Name	Type	Notes	
noSignificantClouds		In automated local routine and special reports, if there are no clouds of operational significance and no restriction on vertical visibility and the abbreviation "CAVOK" is not appropriate, the abbreviation "NSC" should be used.	
Tagged Value Name	Value		
CLDMSemanticTrace	urn:x- ses:sesarju:airm:v410:ConsolidatedLogicalDataModel:SubjectFields:Meteorology:Cloud@isNoSignificantCloudDetected		
Attribute Name	Type	Notes	
noClouds		In automated local routine and special reports, when no clouds are detected by the automatic observing system, it should be indicated by using the abbreviation "NCD".	
Tagged Value Name	Value		
CLDMSemanticTrace	urn:x- ses:sesarju:airm:v410:ConsolidatedLogicalDataModel:SubjectFields:Meteorology:Cloud@isNoCloudDetected		
Element Name	Author	Notes	
RunwayVisualRange	SVA003	Horizontal distance over which a pilot of an aircraft on the centre line of a runway can see the runway surface markings or the lights delineating the runway or identifying its centre line. RVR is normally expressed in metres.	
Element Tagged Value Name	Value		
CLDMSemanticTrace	urn:x- ses:sesarju:airm:v410:ConsolidatedLogicalDataModel:SubjectFields:Meteorology:RunwayVisualRange		

Attribute Name	Type	Notes
rvrValue		Value of the Runway Visual Range
<b>Tagged Value Name</b>	<b>Value</b>	
CLDMSemanticTrace	urn:x- ses:sesarju:airm:v410:ConsolidatedLogicalDataModel:SubjectFields:Meteorology:RunwayVisualRange@rvrValue	
<b>Element Name</b>	<b>Author</b>	<b>Notes</b>
Location	SVA003 [REDACTED]	Indication of the flight phase where the MET phenomena occurs.
<b>Element Tagged Value Name</b>	<b>Value</b>	
CLDMSemanticTrace	CLDM_out_of_scope	
<b>Attribute Name</b>	<b>Type</b>	<b>Notes</b>
IN_APPROACH		
<b>Tagged Value Name</b>	<b>Value</b>	
CLDMSemanticTrace	CLDM_out_of_scope	
<b>Attribute Name</b>	<b>Type</b>	<b>Notes</b>
IN_CLIMB_OUT		
<b>Tagged Value Name</b>	<b>Value</b>	
CLDMSemanticTrace	CLDM_out_of_scope	
<b>Attribute Name</b>	<b>Type</b>	<b>Notes</b>
RUNWAY		
<b>Tagged Value Name</b>	<b>Value</b>	
CLDMSemanticTrace	CLDM_out_of_scope	
<b>Element Name</b>	<b>Author</b>	<b>Notes</b>
CodeChangeIndicatorType	SVA003 [REDACTED]	Change indicators in trend forecasts.
<b>Element Tagged Value Name</b>	<b>Value</b>	
CLDMSemanticTrace	urn:x- ses:sesarju:airm:v410:ConsolidatedLogicalDataModel:SubjectFields:Meteorology:Codelists:CodeChangeIndicatorType	
<b>Attribute Name</b>	<b>Type</b>	<b>Notes</b>
BECMG		Becoming. Indication that a change in meteo conditions is forecast to happen in a certain period.
<b>Tagged Value Name</b>	<b>Value</b>	
<b>Attribute Name</b>	<b>Type</b>	<b>Notes</b>
TEMPO		Temporary. Indication that temporary fluctuations in meteo conditions are forecast to happen in a certain period.
<b>Tagged Value Name</b>	<b>Value</b>	
<b>Element Name</b>	<b>Author</b>	<b>Notes</b>
SignificantPhenomenaType	SVA003 [REDACTED]	Types of significant meteorological phenomena according to MET REPORT template in ICAO Annex 3.
<b>Element Tagged Value Name</b>	<b>Value</b>	
CLDMContextTrace	urn:x- ses:sesarju:airm:v401:ConsolidatedLogicalDataModel:SubjectFields:Meteorology:Codelists:CodePrecipitationType	
CLDMContextTrace	urn:x- ses:sesarju:airm:v401:ConsolidatedLogicalDataModel:SubjectFields:Meteorology:Codelists:CodeWeatherPhenomenonType	
CLDMContextTrace	urn:x- ses:sesarju:airm:v410:ConsolidatedLogicalDataModel:S	

		subjectFields:Meteorology:Codelists:CodeWeatherIntensityType
	CLDMSemanticTrace	urn:x- ses:sesarju:airm:v410:ConsolidatedLogicalDataModel:SubjectFields:Meteorology:Codelists:CodeSignificantWeatherQualifierType
	<b>Attribute Name</b>	<b>Type</b>
	CB	Cumulonimbus cloud.
	<b>Tagged Value Name</b>	<b>Value</b>
	<b>Attribute Name</b>	<b>Type</b>
	TS	Thunderstorm.
	<b>Tagged Value Name</b>	<b>Value</b>
	<b>Attribute Name</b>	<b>Type</b>
	MOD_TURB	Moderate turbulence.
	<b>Tagged Value Name</b>	<b>Value</b>
	CLDMContextTrace	urn:x- ses:sesarju:airm:v410:ConsolidatedLogicalDataModel:SubjectFields:Meteorology:Codelists:CodeWeatherIntensityType@MODERATE
	CLDMSemanticTrace	urn:x- ses:sesarju:airm:v410:ConsolidatedLogicalDataModel:SubjectFields:Meteorology:Turbulence
	<b>Attribute Name</b>	<b>Type</b>
	SEV_TURB	Severe turbulence.
	<b>Tagged Value Name</b>	<b>Value</b>
	CLDMContextTrace	urn:x- ses:sesarju:airm:v410:ConsolidatedLogicalDataModel:SubjectFields:Meteorology:Codelists:CodeWeatherIntensityType@SEVERE
	CLDMSemanticTrace	urn:x- ses:sesarju:airm:v410:ConsolidatedLogicalDataModel:SubjectFields:Meteorology:Turbulence
	<b>Attribute Name</b>	<b>Type</b>
	WS	Wind shear
	<b>Tagged Value Name</b>	<b>Value</b>
	<b>Attribute Name</b>	<b>Type</b>
	GR	Hail.
	<b>Tagged Value Name</b>	<b>Value</b>
	CLDMSemanticTrace	urn:x- ses:sesarju:airm:v410:ConsolidatedLogicalDataModel:SubjectFields:Meteorology:Codelists:CodePrecipitationType@HA IL
	<b>Attribute Name</b>	<b>Type</b>
	SEV_SQL	Severe squall line.
	<b>Tagged Value Name</b>	<b>Value</b>
	CLDMContextTrace	urn:x- ses:sesarju:airm:v410:ConsolidatedLogicalDataModel:SubjectFields:Meteorology:Codelists:CodeWeatherIntensityType@SEVERE
	CLDMSemanticTrace	urn:x- ses:sesarju:airm:v410:ConsolidatedLogicalDataModel:SubjectFields:Meteorology:Codelists:CodeWeatherPhenomenonType@SQUALL
	<b>Attribute Name</b>	<b>Type</b>
	MOD_ICE	Moderate icing.
	<b>Tagged Value Name</b>	<b>Value</b>



	CLDMContextTrace	urn:x- ses:sesarju:airm:v410:ConsolidatedLogicalDataModel:SubjectFields:Meteorology:Codelists:CodeWeatherIntensityType@MODERATE	
	CLDMSemanticTrace	urn:x- ses:sesarju:airm:v410:ConsolidatedLogicalDataModel:SubjectFields:Meteorology:Icing	
	<b>Attribute Name</b>	<b>Type</b>	<b>Notes</b>
	SEV_ICE		Severe icing.
	<b>Tagged Value Name</b>	<b>Value</b>	
	CLDMContextTrace	urn:x- ses:sesarju:airm:v410:ConsolidatedLogicalDataModel:SubjectFields:Meteorology:Codelists:CodeWeatherIntensityType@SEVERE	
	CLDMSemanticTrace	urn:x- ses:sesarju:airm:v410:ConsolidatedLogicalDataModel:SubjectFields:Meteorology:Icing	
	<b>Attribute Name</b>	<b>Type</b>	<b>Notes</b>
	FZDZ		Freezing drizzle.
	<b>Tagged Value Name</b>	<b>Value</b>	
	CLDMContextTrace	urn:x- ses:sesarju:airm:v410:ConsolidatedLogicalDataModel:SubjectFields:Meteorology:Codelists:CodeSignificantWeatherQualifierType@FREEZING	
	CLDMSemanticTrace	urn:x- ses:sesarju:airm:v410:ConsolidatedLogicalDataModel:SubjectFields:Meteorology:Codelists:CodePrecipitationType@DRIZZLE	
	<b>Attribute Name</b>	<b>Type</b>	<b>Notes</b>
	FZRA		Freezing rain.
	<b>Tagged Value Name</b>	<b>Value</b>	
	CLDMContextTrace	urn:x- ses:sesarju:airm:v410:ConsolidatedLogicalDataModel:SubjectFields:Meteorology:Codelists:CodeSignificantWeatherQualifierType@FREEZING	
	CLDMSemanticTrace	urn:x- ses:sesarju:airm:v410:ConsolidatedLogicalDataModel:SubjectFields:Meteorology:Codelists:CodePrecipitationType@RAIN	
	<b>Attribute Name</b>	<b>Type</b>	<b>Notes</b>
	SEV_MTW		Severe mountain waves.
	<b>Tagged Value Name</b>	<b>Value</b>	
	CLDMContextTrace	urn:x- ses:sesarju:airm:v410:ConsolidatedLogicalDataModel:SubjectFields:Meteorology:Codelists:CodeWeatherIntensityType@SEVERE	
	CLDMSemanticTrace	urn:x- ses:sesarju:airm:v410:ConsolidatedLogicalDataModel:SubjectFields:Meteorology:Codelists:CodeWeatherPhenomenonType@MOUNTAIN_WAVE	
	<b>Attribute Name</b>	<b>Type</b>	<b>Notes</b>
	DS		Duststorm.
	<b>Tagged Value Name</b>	<b>Value</b>	
	CLDMSemanticTrace	urn:x- ses:sesarju:airm:v410:ConsolidatedLogicalDataModel:SubjectFields:Meteorology:Codelists:CodeWeatherPhenomenonT	

		ype@DUST STORM	
Attribute Name	Type	Notes	
SS		Sandstorm.	
Tagged Value Name	Value		
CLDMSemanticTrace	urn:x- ses:sesarju:airm:v410:ConsolidatedLogicalDataModel:SubjectFields:Meteorology:Codelists:CodeWeatherPhenomenonType@SANDSTORM		
Attribute Name	Type	Notes	
BLSN		Blowing snow.	
Tagged Value Name	Value		
CLDMContextTrace	urn:x- ses:sesarju:airm:v410:ConsolidatedLogicalDataModel:SubjectFields:Meteorology:Codelists:CodeSignificantWeatherQualifierType@BLOWING		
CLDMSemanticTrace	urn:x- ses:sesarju:airm:v410:ConsolidatedLogicalDataModel:SubjectFields:Meteorology:Codelists:CodePrecipitationType@SNOW		
Attribute Name	Type	Notes	
FC		Funnel cloud (tornado or water spout).	
Tagged Value Name	Value		
CLDMSemanticTrace	urn:x- ses:sesarju:airm:v410:ConsolidatedLogicalDataModel:SubjectFields:Meteorology:Codelists:CodeWeatherPhenomenonType@FUNNEL_CLOUD		
Element Name	Author	Notes	
WeatherIntensity	SVA003 [REDACTED]	Indicator of weather phenomena intensity according to MET REPORT template in ICAO Annex 3.	
Element Tagged Value Name	Value		
CLDMSemanticTrace	urn:x- ses:sesarju:airm:v410:ConsolidatedLogicalDataModel:SubjectFields:Meteorology:WeatherPhenomenon@intensity		
Attribute Name	Type	Notes	
LIGHT			
Tagged Value Name	Value		
MODERATE			
Attribute Name	Type	Notes	
HEAVY			
Tagged Value Name	Value		
Element Name	Author	Notes	
AerodromeCondition	SVA003 [REDACTED]	Weather observations and or forecast for an aerodrome.	
Element Tagged Value Name	Value		
CLDMSemanticTrace	urn:x- ses:sesarju:airm:v410:ConsolidatedLogicalDataModel:SubjectFields:Meteorology:AerodromeCondition		
Attribute Name	Type	Notes	
cavok		Ceiling and Visibility OK.	
Tagged Value Name	Value		
CLDMSemanticTrace	urn:x- ses:sesarju:airm:v410:ConsolidatedLogicalDataModel:Subje		

		ctFields:Meteorology:AerodromeCondition@cavok	
Attribute Name	Type	Notes	
qnh		Q Code corresponding to the derived atmospheric pressure at Mean Sea Level, based on the atmospheric pressure at the reference point converted using the characteristics of the ICAO Standard Atmosphere. It is used as an altimeter setting.	
Tagged Value Name	Value		
CLDMSemanticTrace	urn:x- ses:sesarju:airm:v410:ConsolidatedLogicalDataModel:SubjectFields:Meteorology:AerodromeCondition@qnh		
Element Name	Author	Notes	
ChangeTime	SVA003 [REDACTED]	Timing information for the changes stated in the TREND forecast.	
Element Tagged Value Name	Value		
CLDMSemanticTrace	urn:x- ses:sesarju:airm:v410:ConsolidatedLogicalDataModel:Abstract:TemporalEnabledEntity		
Attribute Name	Type	Notes	
time	DateTime		
Tagged Value Name	Value		
CLDMSemanticTrace	CLDM_out_of_scope		
Element Name	Author	Notes	
PressureSetting	SVA003 [REDACTED]	Altimeter setting.	
Element Tagged Value Name	Value		
CLDMSemanticTrace	urn:x- ses:sesarju:airm:v410:ConsolidatedLogicalDataModel:SubjectFields:Meteorology:AerodromeCondition		
Attribute Name	Type	Notes	
qfe		Q Code corresponding to the atmospheric pressure at the point of reference (generally of an aerodrome). It is used as an altimeter setting.	
Tagged Value Name	Value		
CLDMSemanticTrace	urn:x- ses:sesarju:airm:v410:ConsolidatedLogicalDataModel:SubjectFields:Meteorology:AerodromeCondition@qfe		
Element Name	Author	Notes	
SupplementaryInformation	SVA003 [REDACTED]	Supplementary information provided in the local routine or special reports, according to the template in ICAO Annex 3.	
Element Tagged Value Name	Value		
CLDMSemanticTrace	CLDM_out_of_scope		
Attribute Name	Type	Notes	
significantPhenomenon	SignificantPhenomenaType	Types of significant meteorological phenomena according to MET REPORT template in ICAO Annex 3.	
Tagged Value Name	Value		
CLDMSemanticTrace	CLDM_out_of_scope		
Element Name	Author	Notes	
Wind	SVA003 [REDACTED]	Air motion relative to the Earth's surface	
Element Tagged Value Name	Value		
CLDMSemanticTrace	urn:x- ses:sesarju:airm:v410:ConsolidatedLogicalDataModel:SubjectFields:Meteorology:Wind		

Attribute Name	Type	Notes
windDirection		The angle representing the direction of the wind source.
<b>Tagged Value Name</b>	<b>Value</b>	
CLDMSemanticTrace	urn:x- ses:sesarju:airm:v410:ConsolidatedLogicalDataModel:SubjectFields:Meteorology:Wind@windDirection	
Attribute Name	Type	Notes
windMinDirection		The minimum angle of the two extreme directions between which the surface wind has varied.
<b>Tagged Value Name</b>	<b>Value</b>	
CLDMSemanticTrace	urn:x- ses:sesarju:airm:v410:ConsolidatedLogicalDataModel:SubjectFields:Meteorology:Wind@extremeCounterClockwiseWindDirection	
Attribute Name	Type	Notes
windMaxDirection		The maximum angle of the two extreme directions between which the surface wind has varied.
<b>Tagged Value Name</b>	<b>Value</b>	
CLDMSemanticTrace	urn:x- ses:sesarju:airm:v410:ConsolidatedLogicalDataModel:SubjectFields:Meteorology:Wind@extremeClockwiseWindDirection	
Attribute Name	Type	Notes
windSpeed		The speed of the wind.
<b>Tagged Value Name</b>	<b>Value</b>	
CLDMSemanticTrace	urn:x- ses:sesarju:airm:v410:ConsolidatedLogicalDataModel:SubjectFields:Meteorology:Wind@windSpeed	
Attribute Name	Type	Notes
windMinSpeed		The minimum speed of variable wind.
<b>Tagged Value Name</b>	<b>Value</b>	
CLDMSemanticTrace	urn:x- ses:sesarju:airm:v410:ConsolidatedLogicalDataModel:SubjectFields:Meteorology:Wind@minWindSpeed	
Attribute Name	Type	Notes
windMaxSpeed		The maximum speed of variable wind.
<b>Tagged Value Name</b>	<b>Value</b>	
CLDMSemanticTrace	urn:x- ses:sesarju:airm:v410:ConsolidatedLogicalDataModel:SubjectFields:Meteorology:Wind@maxWindSpeed	
Attribute Name	Type	Notes
isCalm		When a wind speed of less than 0.5 m/s (1 kt) is reported, it shall be indicated as "CALM".
<b>Tagged Value Name</b>	<b>Value</b>	
CLDMSemanticTrace	urn:x- ses:sesarju:airm:v410:ConsolidatedLogicalDataModel:SubjectFields:Meteorology:Wind@isCalm	
Attribute Name	Type	Notes
isVariable		Wind whose direction changes frequently.  According to Annex 3 the wind is reported as variable (VRB) in local routine or special reports, in METAR and SPECI, when one of

			the following situations occur:  - when the total variation is 60 or more and less than 180 and the wind speed is less than 1.5 m/s (3 kt), the wind direction shall be reported as variable with no mean wind direction; or - when the total variation is 180 or more, the wind direction shall be reported as variable with no mean wind direction.
	<b>Tagged Value Name</b>	<b>Value</b>	
	CLDMSemanticTrace	urn:x- ses:sesarju:airm:v410:ConsolidatedLogicalDataModel:SubjectFields:Meteorology:Wind@isVariable	
<b>Element Name</b>	<b>Author</b>	<b>Notes</b>	
TrendForecast	SVA003 [REDACTED]	A concise statement of the expected significant changes in the meteorological conditions at that aerodrome to be appended to a local routine or local special report, or a METAR or SPECI.	
	<b>Element Tagged Value Name</b>	<b>Value</b>	
	CLDMSemanticTrace	urn:x- ses:sesarju:airm:v410:ConsolidatedLogicalDataModel:SubjectFields:Meteorology:WeatherCondition	
	IMDefinitionTrace	urn:x- ses:sesarju:airm:v410:InformationModel:SubjectFields:AirTrafficOperations:InformationServicesProducts:MeteorologicalInformationProduct:TREND	
	<b>Attribute Name</b>	<b>Type</b>	<b>Notes</b>
	changeIndicator	CodeChangeIndicatorType	Change indicators in trend forecasts.
	<b>Tagged Value Name</b>	<b>Value</b>	
	CLDMSemanticTrace	CLDM out of scope	
	<b>Attribute Name</b>	<b>Type</b>	<b>Notes</b>
	noSignificantChanges		No significant changes are forecast. (NOSIG)
	<b>Tagged Value Name</b>	<b>Value</b>	
	CLDMSemanticTrace	urn:x- ses:sesarju:airm:v410:ConsolidatedLogicalDataModel:SubjectFields:Meteorology:WeatherCondition@hasNoSignificantWeather	
<b>Element Name</b>	<b>Author</b>	<b>Notes</b>	
Visibility	SVA003 [REDACTED]	The greatest horizontal distance at which selected objects can be seen, identified, and/or measured with instrumentation.	
	<b>Element Tagged Value Name</b>	<b>Value</b>	
	CLDMSemanticTrace	urn:x- ses:sesarju:airm:v410:ConsolidatedLogicalDataModel:SubjectFields:Meteorology:HorizontalVisibility	
	<b>Attribute Name</b>	<b>Type</b>	<b>Notes</b>
	horizontalVisibility		The greatest visibility value, observed in accordance with the definition of “visibility”, which is reached within at least half the horizon circle or within at least half of the surface of the aerodrome. These areas could comprise contiguous or non-contiguous sectors.
	<b>Tagged Value Name</b>	<b>Value</b>	
	CLDMSemanticTrace	urn:x-	

		ses:sesarju:airm:v410:ConsolidatedLogicalDataModel:SubjectFields:Meteorology:HorizontalVisibility@prevailingVisibility
Element Name	Author	Notes
WeatherPhenomenon	SVA003	A meteorological event.
Element Tagged Value Name	Value	
CLDMSemanticTrace	urn:x-ses:sesarju:airm:v410:ConsolidatedLogicalDataModel:SubjectFields:Meteorology:WeatherPhenomenon	
Attribute Name	Type	Notes
intensity	WeatherIntensity	Indicator of weather phenomena intensity according to MET REPORT template in ICAO Annex 3.
Tagged Value Name	Value	
CLDMSemanticTrace	CLDM_out_of_scope	
Attribute Name	Type	Notes
weatherCharacteristics		Characteristics and type of weather according to Annex 3 table A3-1.
Tagged Value Name	Value	
CLDMSemanticTrace	urn:x-ses:sesarju:airm:v410:ConsolidatedLogicalDataModel:SubjectFields:Meteorology:WeatherPhenomenon@phenomenonType	
Attribute Name	Type	Notes
noSignificantWeather		Indication that no significant weather phenomenon is forecasted.
Tagged Value Name	Value	
CLDMSemanticTrace	urn:x-ses:sesarju:airm:v410:ConsolidatedLogicalDataModel:SubjectFields:Meteorology:WeatherCondition@hasNoSignificantWeather	
Element Name	Author	Notes
METREPORTSubscription	SVA003	Message for the Subscription
Element Tagged Value Name	Value	
CLDMSemanticTrace	CLDM_out_of_scope	
Element Name	Author	Notes
METREPORTUnsubscription	SVA003	Message for the Unsubscription
Element Tagged Value Name	Value	
CLDMSemanticTrace	CLDM_out_of_scope	
Element Name	Author	Notes
MeteorologicalLocalReport	SVA003	Publication message for the ICAO Annex 3 local routine (MET REPORT) or special (SPECIAL) reports.
Element Tagged Value Name	Value	
CLDMSemanticTrace	CLDM_out_of_scope	
Attribute Name	Type	Notes
timeOfObservation		Day and actual time of the observation in UTC.
Tagged Value Name	Value	
CLDMSemanticTrace	urn:x-ses:sesarju:airm:v410:ConsolidatedLogicalDataModel:SubjectFields:Stakeholders:Stakeholder:Unit@startEntityLifetime	
Attribute Name	Type	Notes
isAutomated	Boolean	Automated report identifier.
Tagged Value Name	Value	
CLDMSemanticTrace	CLDM_out_of_scope	

Attribute Name	Type	Notes
type	LocalReportType	Automated report identifier.
Tagged Value Name	Value	
CLDMSemanticTrace	CLDM_out_of_scope	
Element Name	Author	Notes
LocalReportType	SVA003 [REDACTED]	Identification of the type of local MET report: METREPORT or SPECIAL.
Element Tagged Value Name	Value	
CLDMSemanticTrace	CLDM_out_of_scope	
Attribute Name	Type	Notes
METREPORT		Local routine report.
Tagged Value Name	Value	
CLDMSemanticTrace	CLDM_out_of_scope	
IMDefinitionTrace	urn:x- ses:sesarju:airm:v410:InformationModel:SubjectFields:AirT rafficOperations:InformationServicesProducts:Meteorologic alInformationProduct:METREPORT	
Attribute Name	Type	Notes
SPECIAL		Special report.
Tagged Value Name	Value	
CLDMSemanticTrace	CLDM_out_of_scope	
IMDefinitionTrace	urn:x- ses:sesarju:airm:v410:InformationModel:SubjectFields:AirT rafficOperations:InformationServicesProducts:Meteorologic alInformationProduct:SPECIAL	

Element Name	Author	Notes
Temperature	SVA003 [REDACTED]	Observation or forecast for temperature values.
Element Tagged Value Name	Value	
CLDMSemanticTrace	urn:x- ses:sesarju:airm:v410:ConsolidatedLogicalDataModel:S ubjectFields:Meteorology:AerodromeCondition	
Attribute Name	Type	Notes
airTemperature		The temperature indicated by a thermometer exposed to the air in a place sheltered from direct solar radiation (degree Celsius, °C).
Tagged Value Name	Value	
CLDMSemanticTrace	urn:x- ses:sesarju:airm:v410:ConsolidatedLogicalDataModel:Subje ctFields:Meteorology:AviationCondition@airTemperature	
Attribute Name	Type	Notes
dewpointTemperature		Temperature to which a volume of air must be cooled at constant pressure and constant moisture in order to reach saturation ; any further cooling causes condensation.
Tagged Value Name	Value	
CLDMSemanticTrace	urn:x- ses:sesarju:airm:v410:ConsolidatedLogicalDataModel:Subje ctFields:Meteorology:AviationCondition@dewpointTempera ture	

Element Name	Author	Notes
Runway	SVA003 [REDACTED]	A defined rectangular area on a land aerodrome prepared for the landing and take-

founding members



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		off of aircraft.
Element Tagged Value Name		Value
	CLDMSemanticTrace	urn:x- ses:sesarju:airm:v410:ConsolidatedLogicalDataModel:SubjectFields:BaseInfrastructure:AerodromeInfrastructure:Runway
Attribute Name	Type	Notes
designator		The full textual designator of the runway, used to uniquely identify it at an aerodrome/heliport which has more than one. E.g. 09/27, 02R/20L, RWY 1.
Tagged Value Name		Value
	CLDMSemanticTrace	urn:x- ses:sesarju:airm:v410:ConsolidatedLogicalDataModel:SubjectFields:BaseInfrastructure:AerodromeInfrastructure:Runway@designator

Element Name	Author	Notes
Aerodrome	SVA003 [REDACTED]	A defined area on land or water (including any buildings, installations and equipment) intended to be used either wholly or in part for the arrival, departure and surface movement of aircraft.
Element Tagged Value Name		Value
	CLDMSemanticTrace	urn:x- ses:sesarju:airm:v410:ConsolidatedLogicalDataModel:SubjectFields:BaseInfrastructure:AerodromeInfrastructure:Aerodrome
Attribute Name	Type	Notes
locationIndicatorICAO		The four letter ICAO location indicator of the aerodrome/heliport, as listed in ICAO DOC 7910.
Tagged Value Name		Value
	CLDMSemanticTrace	urn:x- ses:sesarju:airm:v410:ConsolidatedLogicalDataModel:SubjectFields:BaseInfrastructure:AerodromeInfrastructure:Aerodrome@designator

Element Name	Author	Notes
RunwaySection	SVA003 [REDACTED]	Section of the runway: TDZ, MID, END.
Attribute Name	Type	Notes
section	CodeRunwaySectionType	Section of the runway: TDZ, MID, END.
Tagged Value Name		Value
	CLDMSemanticTrace	CLDM_out_of_scope

Table 5: Payload tracing to AIRM



## 6 Service dynamic behaviour

The interface offers three operations, namely to subscribe/unsubscribe from the publication of the data, and to notify the consumer on the data being available. The service dynamic behaviour can be shown using the NSOV-5c Service-Event diagram created for the purpose. The following diagram shows that the interaction envisaged between provider and consumer is an asynchronous publish/subscribe “push” type MEP.

### 6.1 Service Interface METREPORTProvider

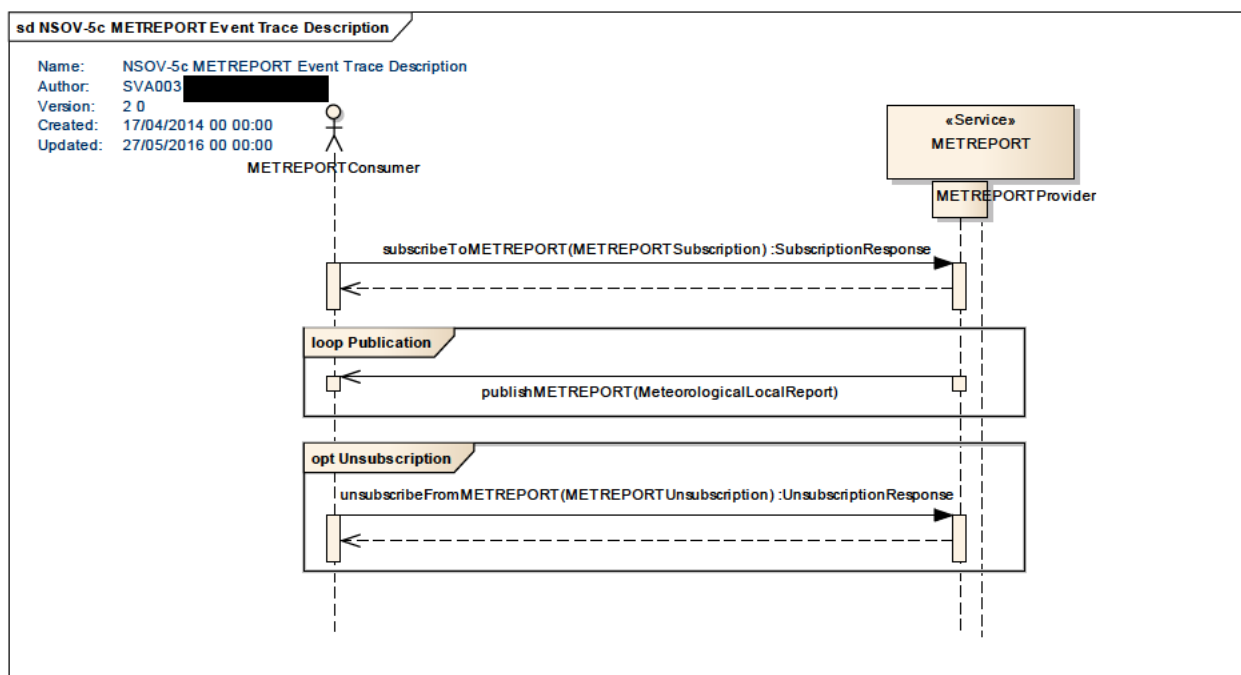


Figure 6: NSOV-5c METREPORT Service Event Trace Description

## 7 Service provisioning (optional)

Service prototyping has been performed in the context of MET-related validation exercise EXE-06.03.01-VP-669 in SESAR. The technology so far identified for the technical interface is the OASIS standard Web Service Notification and belongs to the SWIM Yellow Profile. The detailed description of the technical service contract and service implementation for this exercise is part of technical deliverables by project 12.7.5.



## 8 Validation and Verification

### 8.1 Verification

Verification was performed according to the ISRM Rulebook [11] and the ISRM Verification Guidance [12].

#### 8.1.1 Verification Results

Verification was performed via manual inspection and assisted by a script developed in 8.3.10. The verification outcome is completely free of errors.

Verification reports are in these files “Designed\_Services\_-\_METREPORTService.xls” and “Designed\_Services\_-\_METREPORTService\_Common.xls” available in [15].

### 8.2 Validation

Validation for this service was performed as part of the SESAR validation exercise EXE-06.03.01-VP-669 in Q1 2016. The outcome is recorded in the Validation report VALR [16].

## 9 References

Name	Version	Document ID / Location
[1] OFA 05.01.01 Consolidated OSED edition 3 document (Part1)	03.00.00	06.05.04 D16
[2] OFA 05.01.01 Consolidated OSED edition 3 document (Part2)	03.00.00	06.05.04 D16
[3] Service Identification Report - SVA003	00.01.00	08.03.06
[4] B.4.3 Service Allocation - SVA003	00.00.03	B.04.03
[5] ISRM Service Portfolio	00.08.01	08.03.10 D65
[6] Project deliverables template	03.00.00	SJU templates & guidelines package, Project deliverables template
[7] SESAR Operational Service and Environment Definition	03.00.00	SJU templates & guidelines package, OSED template
[8] SESAR Safety and Performance Requirements	03.00.00	SJU templates & guidelines package, SPR template
[9] ISRM Tooling Guidelines	00.07.00	08.03.10 D44
[10] ISRM Modelling Guidelines	00.07.00	08.03.10 D44
[11] ISRM Foundation Rulebook	00.07.00	08.03.10 D44
[12] ISRM Verification Guidelines	00.07.00	08.03.10 D44
[13] European ATM Architecture (EATMA) Guidance Material v4	00.04.02	B.04.01 D66
[14] ICAO Annex 3, Meteorological Service for International Air Navigation	17 <sup>th</sup> Edition, July 2010	<a href="http://www.icao.int">www.icao.int</a>
[15] Verification reports for the service	N/A	08.03.10 D65 Verification reports
[16] SESAR P06.03.01 Delivery of VALR EXE669 ENAV proposition	00.01.00	06.03.01 D140
[17] SCG service initiation for SVA003 extension	N/A	08.03.10
[18] Session H service allocation matrix EATMA 6.1 V.0.6	00.00.08	B04.03 SCG Service Allocation Matrix

**-END OF DOCUMENT-**

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