



P06.06.02 De-icing V3 DIMT Technical Specification

Document information

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Abstract

This document contains the system level technical requirements (functional and non functional requirements) regarding a De-icing Management Tool (DIMT). It shall guide the development and implementation of a prototype for a DIMT. The requirements are derived from OFA 05.01.01 documents – OSED Edition 3 and SPR Edition 2 - and from the VALR document for EXE-06.06.02-VP-513.

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				VP-513
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12 Table of Contents

13	EXECUTIVE SUMMARY	6
14	1 INTRODUCTION	7
15	1.1 PURPOSE OF THE DOCUMENT.....	7
16	1.2 INTENDED READERSHIP.....	8
17	1.3 INPUTS FROM OTHER PROJECTS.....	8
18	1.4 STRUCTURE OF THE DOCUMENT.....	8
19	1.5 REQUIREMENTS DEFINITIONS – GENERAL GUIDANCE.....	8
20	1.6 FUNCTIONAL BLOCK PURPOSE	9
21	1.7 FUNCTIONAL BLOCK OVERVIEW	10
22	1.8 GLOSSARY OF TERMS	11
23	1.9 ACRONYMS AND TERMINOLOGY	11
24	2 GENERAL FUNCTIONAL BLOCK DESCRIPTION	14
25	2.1 CONTEXT.....	14
26	2.2 FUNCTIONAL BLOCK MODES AND STATES.....	14
27	2.3 MAJOR FUNCTIONAL BLOCK CAPABILITIES.....	15
28	2.4 USER CHARACTERISTICS.....	17
29	2.5 OPERATIONAL SCENARIOS	17
30	2.6 FUNCTIONAL.....	18
31	2.6.1 <i>Functional decomposition</i>	19
32	2.6.2 <i>Functional analysis</i>	20
33	2.7 SERVICE VIEW	26
34	3 FUNCTIONAL BLOCK FUNCTIONAL AND NON-FUNCTIONAL REQUIREMENTS	27
35	3.1 CAPABILITIES.....	27
36	3.1.1 <i>Configuration Requirements</i>	27
37	3.1.2 <i>Information Exchange Requirements</i>	34
38	3.1.3 <i>Execution Requirements</i>	36
39	3.1.4 <i>Post Operations Analysis Requirements</i>	53
40	3.1.5 <i>Presentation Requirements</i>	53
41	3.2 ADAPTABILITY.....	67
42	3.3 PERFORMANCE CHARACTERISTICS.....	68
43	3.4 SAFETY & SECURITY.....	68
44	3.5 MAINTAINABILITY	70
45	3.6 RELIABILITY	71
46	3.7 FUNCTIONAL BLOCK INTERNAL DATA REQUIREMENTS	71
47	3.8 DESIGN AND CONSTRUCTION CONSTRAINTS.....	71
48	3.9 FUNCTIONAL BLOCK INTERFACE REQUIREMENTS.....	71
49	4 ASSUMPTIONS	72
50	5 REFERENCES	73
51	5.1 USE OF COPYRIGHT / PATENT MATERIAL /CLASSIFIED MATERIAL.....	73
52	5.1.1 <i>Classified Material</i>	73
53	APPENDIX A LARGE VERSION OF FIGURE 10	74
54		

55 List of tables

56	Table 1: Requirements layout	9
57	Table 2: Breakdown of TAD Functional blocks	16
58	Table 3: Supporting of the operational scenarios through the DIMT	18

59

60 List of figures

61	Figure 1: TS document with regards to the other SESAR deliverables	7
62	Figure 2: Airport CC – Domain Systems.....	10
63	Figure 3: Grouping of DIMT requirements	15
64	Figure 4: DIMT impacted functional blocks inside Airport Airside Operations domain	18
65	Figure 5: DIMT impacted functional blocks inside Airport Operations Centre domain	19
66	Figure 6: DIMT impacted functional block inside Aerodrome ATC domain	19
67	Figure 7: Major functional decomposition capabilities of the DIMT	20
68	Figure 8: DIMT function "Configuration" use cases	21
69	Figure 9: DIMT function "Information Exchange" use cases.....	23
70	Figure 10: DIMT function "Execution" uses cases	25
71	Figure 11: DIMT function "Post Operations Analysis" use cases	26

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73 Executive summary

74 This document presents the technical requirements (functional and non-functional) regarding a de-
75 icing management tool (DIMT) to be used on airports with an A-CDM implementation during de-icing
76 conditions.

77
78 Starting from CDM time stamps the DIMT will produce a de-icing plan for the upcoming three hours,
79 which can be published to the AOP/CDM platform. The publication of a de-icing plan will make airport
80 stakeholders aware of the ongoing de-icing activities. The information in the de-icing plan may,
81 through the AOP, also be published to the NOP

82
83 The de-icing plan builds on weather forecasts. If the weather category is predicting de-icing, all flights
84 with an EOBT in the time frame for the forecast will be adopted in the de-icing plan with an estimated
85 de-icing time duration and an estimated commencement and end of de-icing. The allocation of de-
86 icing resources, i.e. de-icing rigs for on stand and after push de-icing and de-icing pad tracks for
87 remote de-icing, will be done to give an idea of the situation for the upcoming hours. The de-icing plan
88 is updated as soon as there is a value change in any of the parameters.

89
90 Through the sharing of data with the AOP, de-icing will become a visible element in the Turnaround or
91 Surface Out processes for concerned actors and, as such, will increase common situational
92 awareness and predictability in the Airport Transit View.

93 The tool will support the following performance improvements:

- 94 • Increased predictability and flexibility of airport operations (integration of airport operations
95 with the network)
- 96 • Better use of existing airport capacity
- 97 • Pro-active management of predicted impacts to normal operations

98 These improvements may also enhance, indirectly and to a lesser extent, safety (through better
99 predictability and more accurate plans) and environment (through more efficient airport operations).

100
101 The prototype to be used in validation exercise VP-513 will have constraints compared to the
102 envisaged product. The most important constraints is that the publication of the de-icing plan to the
103 AOP will not developed in the prototype, the interface with the system used in the de-icing rigs will not
104 be developed and the post operation analysis functionality will also not be developed. The
105 participation of P11.02.02 in VP-513 means that the creation of weather categories from weather
106 parameters will be done outside the DIMT prototype ODISS and instead published to ODISS from the
107 MET system used by P11.02.02/FMI.

108
109 The Technical Specification has been updated after execution of VP-513. Five requirements have
110 been changed (REQ-06.06.02-TS-CONF.0002, REQ-06.06.02-TS-INEX.0002, REQ-06.06.02-TS-
111 EXCE.0001, REQ-06.06.02-TS-EXCP.0003 and REQ-06.06.02-TS-PRES.0022) and 15 requirements
112 have been added (REQ-06.06.02-TS-CONF.0018, REQ-06.06.02-TS-CONF.0019, REQ-06.06.02-
113 TS-INEX.0004, REQ-06.06.02-TS-INEX.0005, REQ-06.06.02-TS-INEX.0006, REQ-06.06.02-TS-
114 EXCW.0004, REQ-06.06.02-TS-EXCP.0018, REQ-06.06.02-TS-EXCP.0019, REQ-06.06.02-TS-
115 EXCP.0020, REQ-06.06.02-TS-EXCP.0021, REQ-06.06.02-TS-PRES.0034, REQ-06.06.02-TS-
116 PRES.0035, REQ-06.06.02-TS-PRES.0036, REQ-06.06.02-TS-PRES.0037 and REQ-06.06.02-TS-
117 PRES.0038).

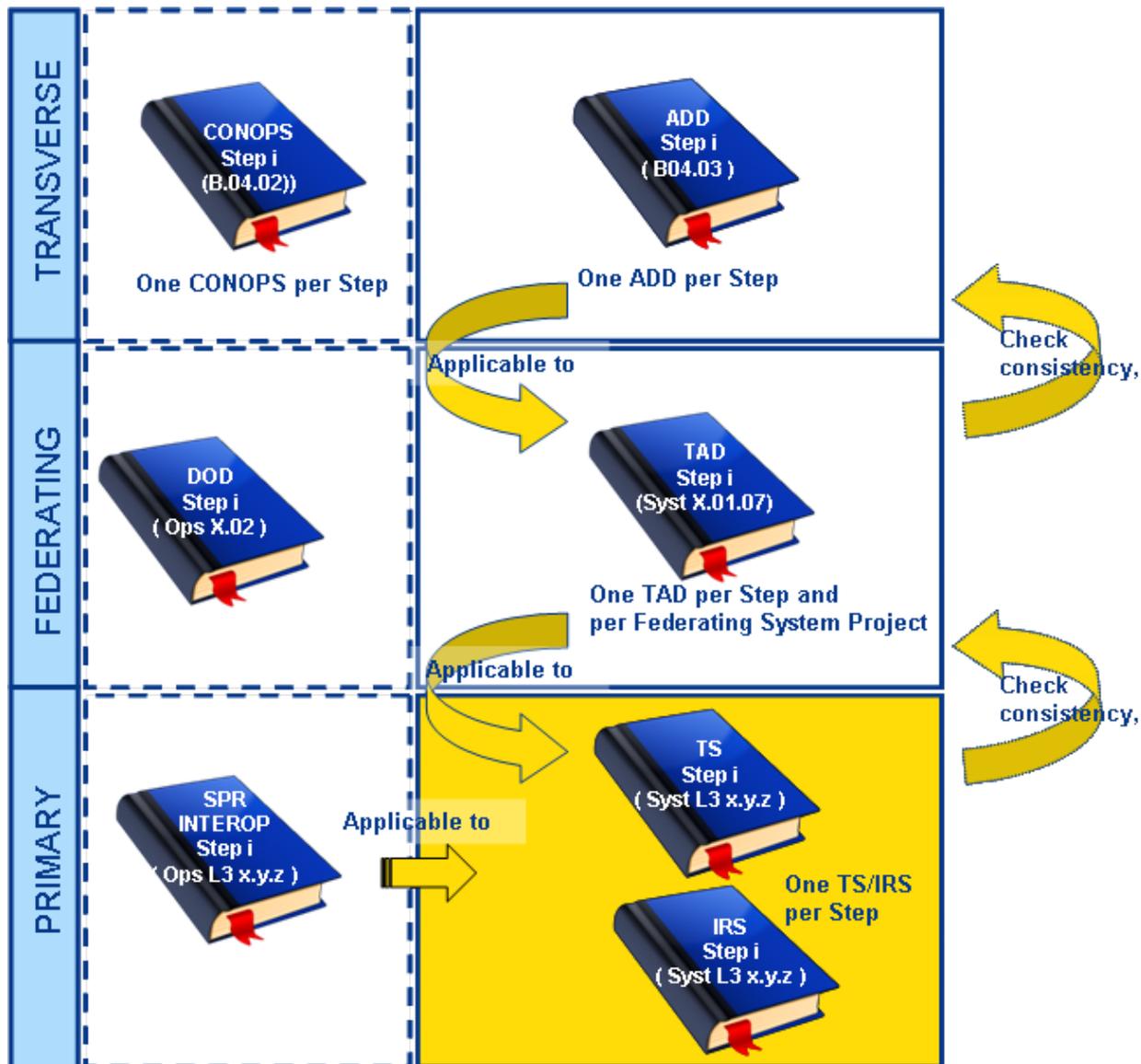
118 **1 Introduction**

119 **1.1 Purpose of the document**

120 This Technical Specification, TS, describes the requirements of the ODISS prototype, the de-icing
121 management tool to be used in the V3 validation VP-513, and their traceability against the operational
122 documents.

123 The Figure 1 below presents the place of the TS within the hierarchy of SESAR concept documents,
124 together with the SESAR Work package or Project responsible for their maintenance.

125



126

127

Figure 1: TS document with regards to the other SESAR deliverables

128

129 The aim of this document is to specify the system requirements which were allocated to P06.06.02
130 when the former de-icing thread in P12.06.02 was terminated. The ODISS, a prototype of the de-icing

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131 management tool envisaged in the de-icing concept, is developed by Telespazio VEGA Deutschland
132 GmbH as a subcontractor to operational project 06.06.02.

133 The Technical Specification contains the functional, non-functional and interface requirements. They
134 are addressing the “what” and partly the “how”. They don’t aim at specifying the physical design of the
135 functional block, but the functional description and the necessary logical interfaces.

136

137 1.2 Intended readership

138 This document is intended for the following audience:

- 139 • Project **12.01.07** (Airport System Specification drafting and Maintenance) is interested in the
140 documents to identify and maintain the consolidated list of requirements derived from each
141 WP12 projects. As this system development was originally connected with P12.06.02 this
142 remains as the federating project in this matter.
- 143 • Primary Project **06.05.04** (Airport Operations Centre (APOC) definition), as the source of the
144 operational documents and requirements are interested in the document to check the
145 consistency between the expected prototype and the operational requirements.
- 146 • Project **11.02.02** (MET Information System Development, Verification & Validation) as a
147 supporting project to the V3 validation exercise VP-513 where the prototype shall be used.
- 148 • Project **12.06.02** (The Airport Operations Plan (AOP), decision support tools and conflict
149 detection tools to be integrated in APOC for managing the overall performance of the airport)
150 may be interested in the document as the DIMT shall be connected to the AOP eventually.

151

152 1.3 Inputs from other projects

153 The main sources of the input data are:

- 154 • OFA 5.1.1 OSED Ed. 3 (ref [7])
- 155 • OFA 5.1.1 SPR Ed. 2 (ref [8])

156

157 1.4 Structure of the document

158 This document is divided into four chapters.

159 Chapter 1 is the introduction. It describes the purpose and scope of the document and the
160 methodology used to derive the requirements, including the purpose of the system under analysis.

161 Chapter 2 gives a general description of the ODISS/DIMT.

162 Chapter 3 describes the capabilities, conditions and constraints of the ODISS/DIMT. In particular it
163 contains the functional and non-functional requirements.

164 Chapter 4 describes the assumptions used for writing the document.

165 Chapter 5 describes the referenced documents.

166 1.5 Requirements Definitions – General Guidance

167 Requirements are written according to the SESAR requirements and V&V Guidelines (ref. [2]) and
168 SESAR template Toolbox (ref [3]).

169 The Requirements are produced to describe both functional and operational requirements at system
170 level. The purpose of technical specification is to transform the operational requirements and safety
171 recommendations identified through analysis of external input into a coherent description of ASN
172 component and its capabilities.

173 Requirements are structured by Requirement type, and then:

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- 174 • Functional requirements
- 175 • Operational requirements
 - 176 ○ Performance Requirements
 - 177 ○ Safety Requirements
 - 178 ○ Interface Requirements

179 These requirements will address the “what” and not the “how”, therefore they don’t aim at specifying
180 the physical design of the component, but the functional description and the necessary logical
181 interfaces with other functional blocks.

182
183 The layout is illustrated below:
184 [REQ]
185

Identifier	
Requirement	
Title	
Status	
Rationale	
Category	
Validation Method	
Verification Method	

186
187

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

188 Table 1: Requirements layout
189

190 1.6 Functional block Purpose

191 The De-icing Management Tool (DIMT) primarily falls into the Airport Airside Operations Domain
192 system of Airport CC, but the DIMT also uses function blocks from the Airport Operations Centre
193 Domain also of Airport CC and the Aerodrome ATC Domain of Tower CC.

194 The Airport Airside Operations represents the activities related to airside resources and activities
195 management in the tactical phase taking into consideration only the information provided by other
196 actors and the current situation of the airport. The Airport Operations Centre Domain represents the
197 strategic and tactical management of the airport in coordination with the rest of the network being the
198 system for negotiating with other stakeholders. The Aerodrome ATC Domain supports the ATS
199 controllers at an aerodrome.

200

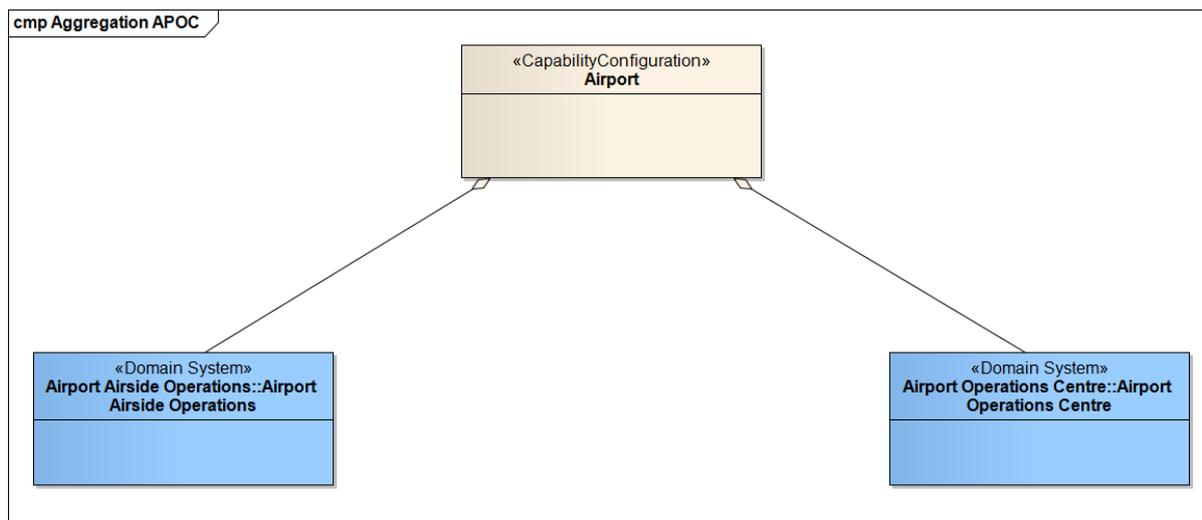


Figure 2: Airport CC – Domain Systems

201
202
203

1.7 Functional block Overview

Within the, in 1.6 mentioned, domains the DIMT addresses the following functional blocks.

Airport Airside Operations

- **Airport Resources and Facilities Tactical Management**

Wise allocation, assignment and monitoring of airport resources involved in airside operations acting in real-time including demand and capacity. These resources can be either fixed or mobile and are assigned to each operation according to pre-defined rules and constraints (such as: each resource can only be used by one aircraft at any one time) and optimizing the airport capacity (e.g. minimizing non-operating displacements).

This function provides resource and facility assignments/allocation, resource and facility status information, resource and facility capacity/availability, resource and facility capacity alerts, resource and facility conflict alerts.

The DIMT is focused on managing both mobile and fixed de-icing resources, e.g. de-icing rigs (mobile resources) and de-icing pads (fixed resources).

- **Airport Resources and Facilities Planning**

Monitors current airport demand and capacity and predicts future demand and capacity with regard to operational information and the current weather situation and other disruptions. Unlike Airport Resources and Facilities Management which operates in real time, this function mainly uses scheduled flight information giving a short and midterm planning to the operators.

This function provides resource and facility assignments/allocation, resource and facility capacity as well as resource and facility capacity alerts.

The DIMT is producing a short-term plan for the usage of the de-icing resources.

- **Turn-Round Management**

Supports turn-round operations. Estimates and predicts accurate throughput times and entry and leaving times, coordinated with Arrival, Departure, Surface and Airport Resources and Facilities Management. Turn-round Management only contributes to time estimation for the RBT concept, but not to Resource Allocation and Planning. This function has a strong inter-dependency with the Departure Management and Surface Guidance Management functions from the Aerodrome ATC system.

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233 The DIMT is producing estimated de-icing times durations (EDIT) and de-icing time stamps (ECZT
234 and EEZT) for on stand de-icing of aircraft.

235 • **Performance Management**

236 Function in charge of assessing the airport's performance and improving it. Its main function is to
237 extract, either in real-time or from historic data, commonly agreed key performance indicators from the
238 airport's operational data and to monitor the whole airport's productive process.

239 The DIMT supports this functional block by providing historical data for the de-icing process.

240

241 **Airport Operations Centre**

242 • **Airport Operations Plan Management**

243 This functional block collects all data relevant for the AOP. Based on the collected data long, medium
244 and short term AOPs are created and distributed. The AOP Management also ensures integration of
245 AOP and NOP.

246 The DIMT depends on interaction with the AOP. The DIMT subscribes on flight information in order to
247 produce a de-icing plan and publishes de-icing time stamps for other airport actors as information or
248 for action.

249 • **Airport Operations Plan Performance**

250 Its main function is to extract, either in real-time or from historical data, commonly agreed key
251 performance indicators from the airport's operational data and to monitor the whole airport's
252 productivity process. It also predicts possible productivity or quality hazards and tracks the incidents
253 that appear. This functional block collects all data relevant for the AOP. Based on the collected data
254 long, medium and short term AOPs are created and distributed.

255 The DIMT depends on interaction with the AOP. The DIMT subscribes on flight information in order to
256 produce a de-icing plan and publishes de-icing time stamps for other airport actors as information or
257 for action. The DIMT also supports this functional block by providing historical data from the de-icing
258 process.

259

260 **Aerodrome ATC**

261 • **Departure Management**

262 This functional block calculates the departure sequence of the flights improving departure flows at
263 airports, taking multiple constraints and preferences into account.

264 The DIMT may support this functional block by providing accurate information about the on-going and
265 planned de-icing operations.

266

267 **1.8 Glossary of terms**

268 N/A

269 **1.9 Acronyms and Terminology**

270

Term	Definition
A/C	Aircraft
A-CDM	Airport Collaborative Decision Making

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Term	Definition
ACZT	Actual Commencement of De-icing
ADD	Architecture Definition Document
ADIT	Actual De-icing Time
AEZT	Actual End of De-icing
AOBT	Actual Off Block Time
AOP	Airport Operations Plan
APZT	Actual Positioned for De-icing Time
ASAT	Actual Start up Approval Time
ATM	Air Traffic Management
ATOT	Actual Take Off Time
ATV	Airport Transit View
CC	Capability Configuration
CTOT	Calculated Take Off Time
DI	De-Icing
DIMT	De-icing Management Tool
DOD	Detailed Operational Description
E-ATMS	European Air Traffic Management System
ECZT	Estimated Commencement of De-icing
EDIT	Estimated De-icing Time
EEZT	Estimated End of De-icing
EOBT	Estimated Off Block Time
ETOT	Estimated Take Off Time
FMI	Finnish Meteorological Institute
HCI	Human Computer Interface
HMI	Human Machine Interface
IRS	Interface Requirements Specification

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Term	Definition
INTEROP	Interoperability Requirements
OBT	Off Block Time
ODISS	Optimal De-Icing Sequence Support
OSED	Operational Service and Environment Definition
SESAR	Single European Sky ATM Research Programme
SJU	SESAR Joint Undertaking (Agency of the European Commission)
SJU Work Programme	The programme which addresses all activities of the SESAR Joint Undertaking Agency.
SESAR Programme	The programme which defines the Research and Development activities and Projects for the SJU.
SOBT	Scheduled Off Block Time
SPR	Safety and Performance Requirements
TAD	Technical Architecture Description
TOBT	Target Off Block Time
TS	Technical Specification
TSAT	Target Start up Approval Time
TTOT	Target Take Off Time
VTT	Variable Taxi Time

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272 2 General Functional block Description

273 2.1 Context

274 During the winter season, snowy conditions places, according to the A-CDM manual, an airport in a
275 continuous disrupted state as most departing flights will need to be de-iced. However there are
276 situations related to de-icing that are either expected and/or can be foreseen with more or less
277 accuracy. Both their scope and likely effects are predictable. De-icing, whether on stand, after push or
278 remote, is part of the ATV and the process of handling a flight. The time duration required for the de-
279 icing of aircraft as well as estimated start and end times will become visible to the airport actors and it
280 can also be accounted for in the calculation of the various target times.

281 The A-CDM Manual (ref [5]) places the de-icing process within the A-CDM context. The processes
282 involved in de-icing are described in the OFA 5.1.1 OSED Edition 3 (ref [7]). Both these references
283 contribute to the understanding of the issues involved in planning for predictability and performance of
284 the management of de-icing.

285 The above referenced OSED describes the need for a De-Icing Management Tool to calculate the
286 expected de-icing time (EDIT) for all aircrafts that need to be de-iced and that this information shall be
287 shared with all stakeholders. The OSED describes four primary use cases that define the operational
288 requirements on the de-icing process. Three of these use-cases handle the actual de-icing process
289 being on stand, after push or remote. The fourth use-case handles the situation where the aircraft
290 needs to be de-iced again due to expired hold-over time.

291 The de-icing concept will be supported by a De-Icing Management Tool, DIMT, which is designed to
292 be a planning tool for de-icing agents while at the same time supply some A-CDM platform
293 functionalities with necessary data for airport performance monitoring (service "Monitor Airport
294 Performance").

295 The main functionalities of the De-Icing Management Tool (DIMT) are:

- 296 • An assessment of the weather (current and forecasted) in four de-icing conditions: no de-
297 icing, low, medium and severe.
- 298 • Determination of *Estimated De-Icing Time* (EDIT) for departing flights (flights with EOBT).
- 299 • Planning of de-icing operations on flights expected to be de-iced.
- 300 • Allocation of de-icing resources to flights planned to be de-iced.
- 301 • Publishing of de-icing timestamps (ECZT, EDIT and EEZT) to the A-CDM platform.

302 The De-icing Management Tool is a tool that follows the general operating method as outlined in
303 section 3.2 of the OSED (ref [7]). This document refers to the term AOP as the A-CDM platform for
304 sharing information with other components/systems.

305 2.2 Functional block Modes and States

306 The DIMT prototype (when running) is a permanent support for the de-icing agent for the planning
307 and monitoring of the de-icing resources.

308 The ODISS consists of three main components: A database (open source, off the shelf product), the
309 ODISS server, and the DIMT HMI. Each of these components can be in an "on" and an "off" state. It is
310 a necessary precondition for the server to become "on" that the database is "on". It is a necessary
311 precondition for the HMI to become "on" that the server is "on".

312 For the maintenance or update of each component, the corresponding component has to be "off".

313 There are no software-defined modes of operation.

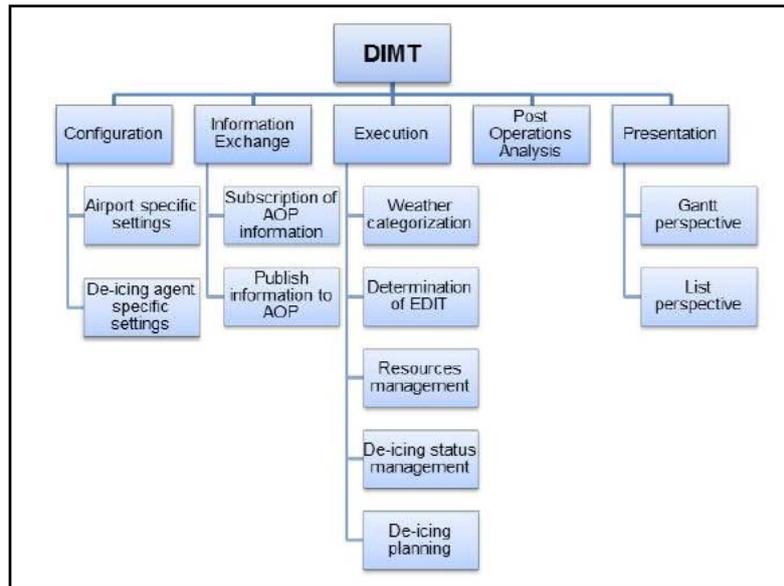
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314 **2.3 Major Functional block Capabilities**

315 The DIMT technical requirements have been clustered into groups of requirements, see figure 3
316 below. The requirements have been grouped taking into account functionalities.



317 **Figure 3: Grouping of DIMT requirements**

318 The table below (Table 2: Breakdown of TAD Functional blocks) describes how the capabilities of the
319 functional blocks are connected to the groups of requirements for the system and gives examples to
320 illustrate the connection.
321

322

TAD Functional Block	DIMT Grouping of requirements	Examples
Airport Resources and Facilities Tactical Management	<p><u>Configuration</u></p> <p><u>Execution:</u> Determination of EDIT Resources management De-icing status management De-icing planning</p> <p><u>Presentation:</u> Gantt perspective HMI</p>	<p><i>De-icing planning:</i> The DIMT will produce an optimized de-icing plan, taking weather forecasts, available resources and flight information into account. The update of A-CDM platform results in update of the de-icing plan. The HMI allows for manual reallocation of resources when necessary.</p>
Airport Resources and Facilities Planning	<p><u>Configuration</u></p> <p><u>Execution:</u> Determination of EDIT Resources management De-icing status management De-icing planning</p> <p><u>Presentation:</u></p>	<p><i>De-icing planning:</i> The DIMT will produce an optimized de-icing plan, taking weather forecasts, available resources and flight information into account. The update of A-CDM platform results in update of the de-icing plan. The HMI allows for manual reallocation of resources when necessary.</p>

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	Gantt perspective HMI	
Turn-Round Management	<u>Configuration</u> <u>Execution:</u> Determination of EDIT Resources management De-icing status management De-icing planning <u>Presentation:</u> Gantt perspective HMI	<i>De-icing on stand/parking position:</i> The DIMT will produce a de-icing plan with time stamps in accordance with A-CDM platform flight information
Performance Management	<u>Post-Operations Analysis</u>	<i>De-icing operations analysis:</i> The DIMT may support performance management by collecting and providing historical data concerning the de-icing operations
Airport Operations Plan Management	<u>Information exchange:</u> Subscription of AOP information Publish de-icing information to AOP	<i>Revise/Update AOP during day of operation:</i> The DIMT interacts with A-CDM platform by using flight information to produce a de-icing plan which, in turn, could be published to the AOP. Update of flight information mean recalculating the de-icing plan.
Airport Operations Plan Performance	<u>Information exchange:</u> Subscription of AOP information Publish de-icing information to AOP	<i>Revise/Update AOP during day of operation:</i> The DIMT interacts with A-CDM platform by using flight information to produce a de-icing plan which, in turn, could be published to the AOP. Update of flight information mean recalculating the de-icing plan.
Departure Management	<u>Execution:</u> Determination of EDIT Resources management De-icing status management De-icing planning <u>Presentation:</u> Gantt perspective HMI	<i>Remote de-icing:</i> The DIMT support departure management by providing accurate time stamps about the on-going and planned de-icing operations.

Table 2: Breakdown of TAD Functional blocks

323

324 The most important constraints on the V3 prototype are the exclusion of Post Operations Analysis and
 325 the publishing of information to the AOP (in the case of VP-513 that is the CDM-platform).

326

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327 2.4 User Characteristics

328 The De-icing Management Tool is used by the following user roles:

- 329 • De-icing Coordinator: The role that is responsible for planning and coordinating the de-icing
330 operations performed by the de-icing agent/s and for which the DIMT is a working tool.
- 331 • De-icing Administrator: The role that administers the de-icing and airport related settings.
- 332 • System Administrator: The role that administers system related configurations, including the
333 operating system settings.

334 The principal user role is the de-icing coordinator. There is typically one (1) de-icing coordinator per
335 de-icing agent, but there may also be cases where one de-icing coordinator handles de-icing
336 resources belonging to several de-icing agents.

337 The de-icing administrator and the system administrator roles would typically be assigned to one (1)
338 user.

339 2.5 Operational Scenarios

340 The DIMT shall support the operational scenarios “Medium / Short Term Planning Phases” and
341 “Airport Operations Management during the Execution Phase”, described in the OFA 5.1.1 OSED
342 Edition 2 (ref [7]). In the system this is done by de-icing planning made possible due to resources
343 management and data exchange with the A-CDM platform. Examples of how this is done is shown in
344 table.

345

Operational Scenario from OSED	Functional Decomposition in the DIMT	Examples
Medium to Short-term planning Execution phase	<u>Execution:</u> Determination of EDIT Resources management De-icing status management De-icing planning <u>Presentation:</u> Gantt perspective HMI	<i>De-icing planning:</i> The DIMT will produce an optimized de-icing plan, taking weather forecasts, available resources and flight information into account. The update of AOP results in update of the de-icing plan. The HMI allows for manual reallocation of resources when necessary.
Execution Phase: Turn-round, Pre-departure	<u>Execution:</u> Determination of EDIT Resources management De-icing status management De-icing planning <u>Presentation:</u> Gantt perspective HMI	<i>De-icing on stand/parking position:</i> The DIMT will produce a de-icing plan with time stamps in accordance with A-CDM platform flight information
Post-Operations Analysis Phase	<u>Post-Operations Analysis</u>	<i>De-icing operations analysis:</i> The DIMT may support performance management by collecting and providing historical data concerning the de-icing operations
Medium to Short-term	<u>Information exchange:</u>	<i>Revise/Update AOP during day of operation:</i>

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planning	Subscription of AOP information Publish de-icing information to AOP	The DIMT interacts with A-CDM platform by using flight information to produce a de-icing plan which, in turn, could be published to the AOP. Update of flight information mean recalculating the de-icing plan.
Execution Phase: Departure, <i>Taxi-out</i>	<u>Execution:</u> Determination of EDIT Resources management De-icing status management De-icing planning <u>Presentation:</u> Gantt perspective HMI	<i>Remote de-icing:</i> The DIMT support departure management by providing accurate time stamps about the on-going and planned de-icing operations.

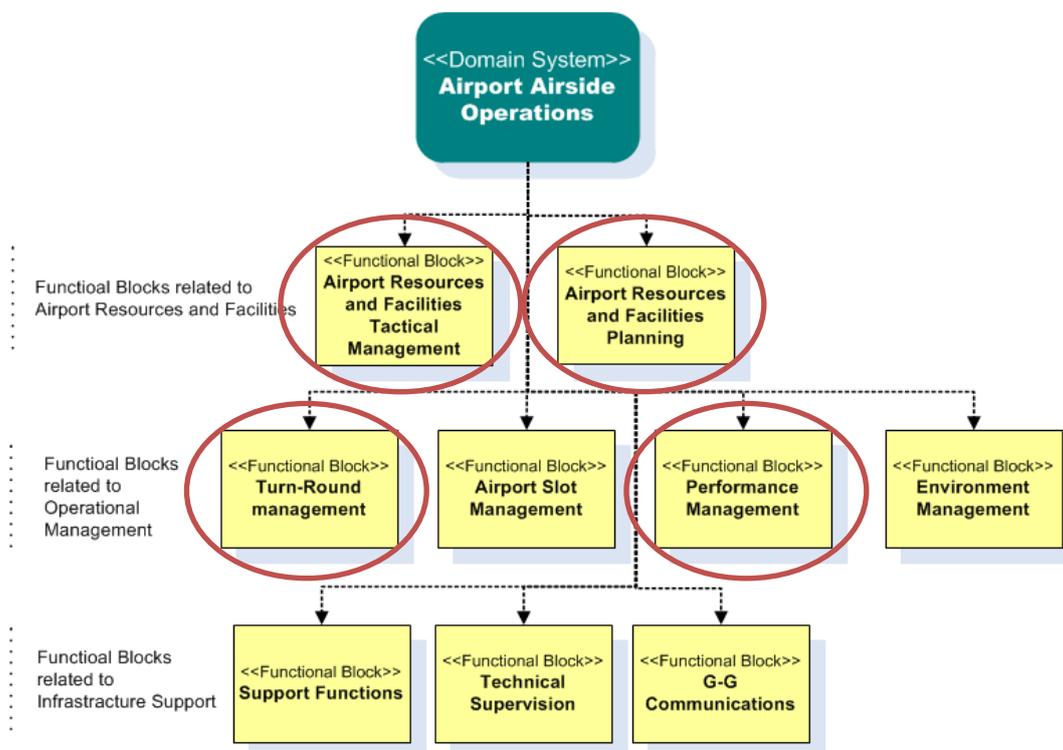
346 **Table 3: Supporting of the operational scenarios through the DIMT**

347 The most important constraints on the V3 prototype are the exclusion of Post Operations Analysis and
 348 the publishing of information to the AOP (in the case of VP-513 that would be the CDM-platform). Also
 349 the foreseen weather categorization will not be done in the DIMT prototype, but the prototype will
 350 receive weather categories from an 11.02.02 tool (see [11], sections 3.2.1.4 and 3.2.3.4).

351 2.6 Functional

352 This chapter describes the DIMT impacted functional blocks inside Airport CC and Tower CC, which
 353 are shown below in Figure 4, Figure 5, and Figure 6.

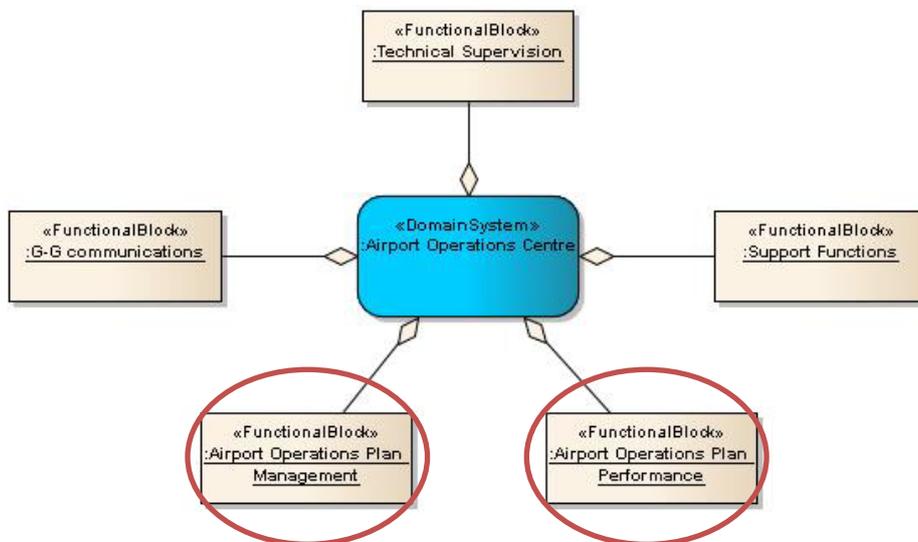
354



355 **Figure 4: DIMT impacted functional blocks inside Airport Airside Operations domain**

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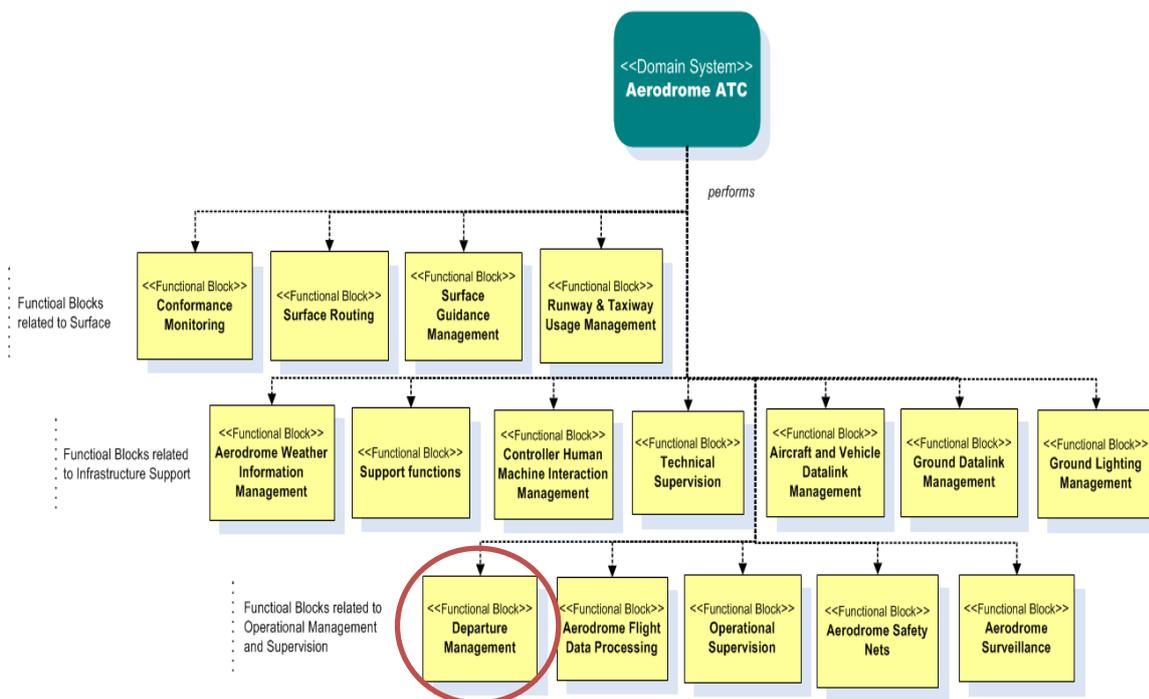
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Figure 5: DIMT impacted functional blocks inside Airport Operations Centre domain

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Figure 6: DIMT impacted functional block inside Aerodrome ATC domain

370 2.6.1 Functional decomposition

371 The major functional block capabilities are shown in Figure 7: Major functional decomposition
372 capabilities of the DIMT” below.

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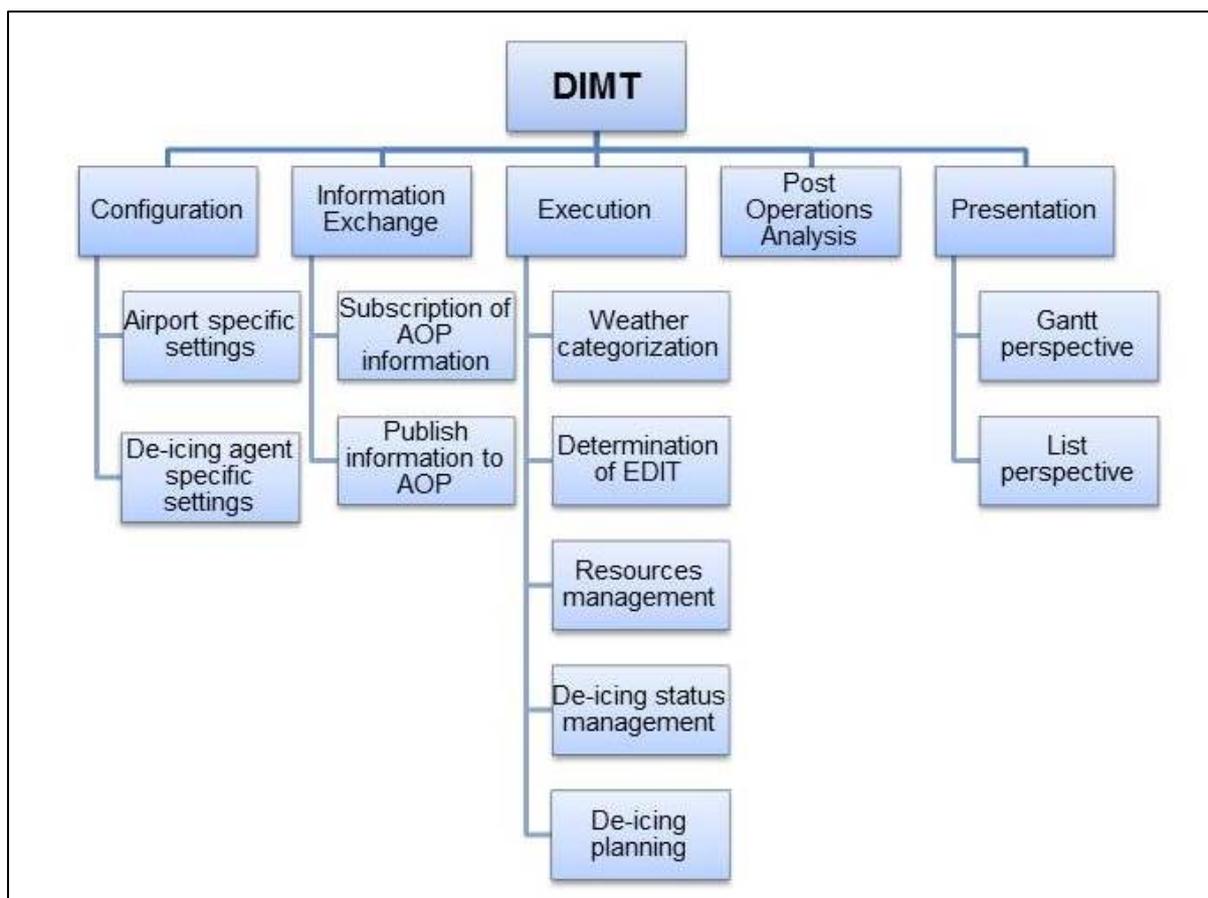


Figure 7: Major functional decomposition capabilities of the DIMT

373
 374

2.6.2 Functional analysis

375

2.6.2.1 Configuration

376

377 The configuration is meant to allow for configuration of parameters necessary to the DIMT. It will also
 378 handle the user roles and authorizations as well as the allocation algorithms for de-icing resources.
 379 The figure below (Figure 8: DIMT function "Configuration" use cases) is a sketch of the use cases
 380 defined for the system. These are:

- 381 • UC Package UC01 DIMT Administration
 - 382 ○ UC01.01 Manage Airports
 - 383 ○ UC01.02 Manage De-icing Agents
 - 384 ○ UC01.03 Manage Users
 - 385 ○ UC01.05 Manage Calendar
 - 386 ○ UC01.06 Manage Roles
 - 387 ○ UC01.07 Manage Authorization
 - 388 ○ UC01.08 Manage De-icing Unit Allocation Algorithms
 - 389 ○ UC01.09 Manage De-icing Unit Sequence
 - 390 ○ UC01.10 Manage GUI Configuration
- 391 • UC Package UC02 Global

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- 392 ○ UC02.03 Manage Weather Categories
- 393 ○ UC02.05 Manage De-icing methods
- 394 ● UC Package UC03 Airport
 - 395 ○ UC03.01 Manage Airport Structure
 - 396 ○ UC03.04 Manage Stand Information
 - 397 ○ UC03.05 Manage De-icing Pad Information
 - 398 ○ UC03.06 Manage Drive Up Time Table
 - 399 ○ UC03.08 Manage Weather Mapping Table
 - 400 ○ UC03.09 Manage Time Events
 - 401 ○ UC03.10 Manage Airport De-icing Coordinator
- 402 ● UC Package UC04 De-icing Agent
 - 403 ○ UC04.01 Manage De-icing Agent Units
 - 404 ○ UC04.02 Manage De-icing Agent Methods
 - 405 ○ UC04.05 Manage De-icing Time Table
 - 406 ○ UC04.06 Select De-icing Unit Allocation Algorithm
 - 407 ○ UC04.08 Manage De-icing Agent Configuration
- 408

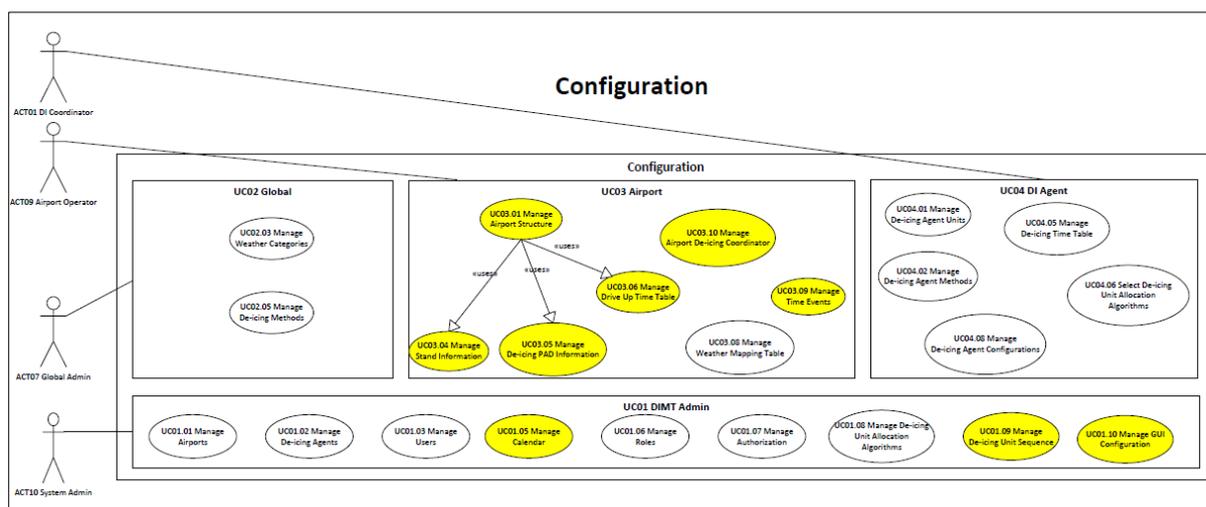


Figure 8: DIMT function "Configuration" use cases

The roles of ACT01 (DI Coordinator), ACT09 (Airport Operator), and ACT07 (Global Admin) is performed by the De-Icing Administrator user role. The De-Icing Coordinator user role is not involved in the configuration of the system, but it only gains access to the DIMT by using the Presentation function. The role of ACT10 (System Admin) is performed by the System Administrator user role.

The main purpose of the Configuration function is the preparation and maintenance of the DIMT configuration in the DIMT database. It is the necessary function to be executed before any of the further functions can be run. For instance, the Information Exchange function relies on the configured value ranges for data consistency checks. The Execution function relies on the configured system resources. The Presentation function depends on the configuration of data ranges and presentation layouts.

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421 2.6.2.2 Information Exchange

422 The information exchange will to the largest part be with the A-CDM platform. This is illustrated in
423 "Figure 9: DIMT function "Information Exchange" use cases". The following use cases have been
424 defined:

- 425 • UC Package UC05 Subscribe and base load
 - 426 ○ UC05.01 Receive General Flight Information
 - 427 ○ UC05.02 Receive Flight Schedules
 - 428 ○ UC05.03 Receive Flight Estimates
 - 429 ○ UC05.04 Receive Flight Targets
 - 430 ○ UC05.05 Receive Flight Actuals
 - 431 ○ UC05.07 Receive Weather Information
 - 432 ○ UC05.11 Receive De-icing Agents Information 16
 - 433 ○ UC05.12 Base Load Flight Information
 - 434 ○ UC05.13 Base Load De-icing Agent information
 - 435 ○ UC05.14 Base Load ICAO Codes
 - 436 ○ UC05.15 Base Load IATA Codes
 - 437 ○ UC05.16 Base Load A/C Types
 - 438 ○ UC05.17 Base Load Weather information
 - 439 ○ UC05.18 Receive ICAO Codes
 - 440 ○ UC05.19 Receive IATA Codes
 - 441 ○ UC05.20 Receive A/C Types
 - 442 • UC Package UC 06 Publish
 - 443 ○ UC06.01 Publish De-icing Values for Flight Information
 - 444 ○ UC06.02 Publish De-icing Unit Sequence
 - 445 ○ UC06.03 Base Load A-CDM platform
- 446

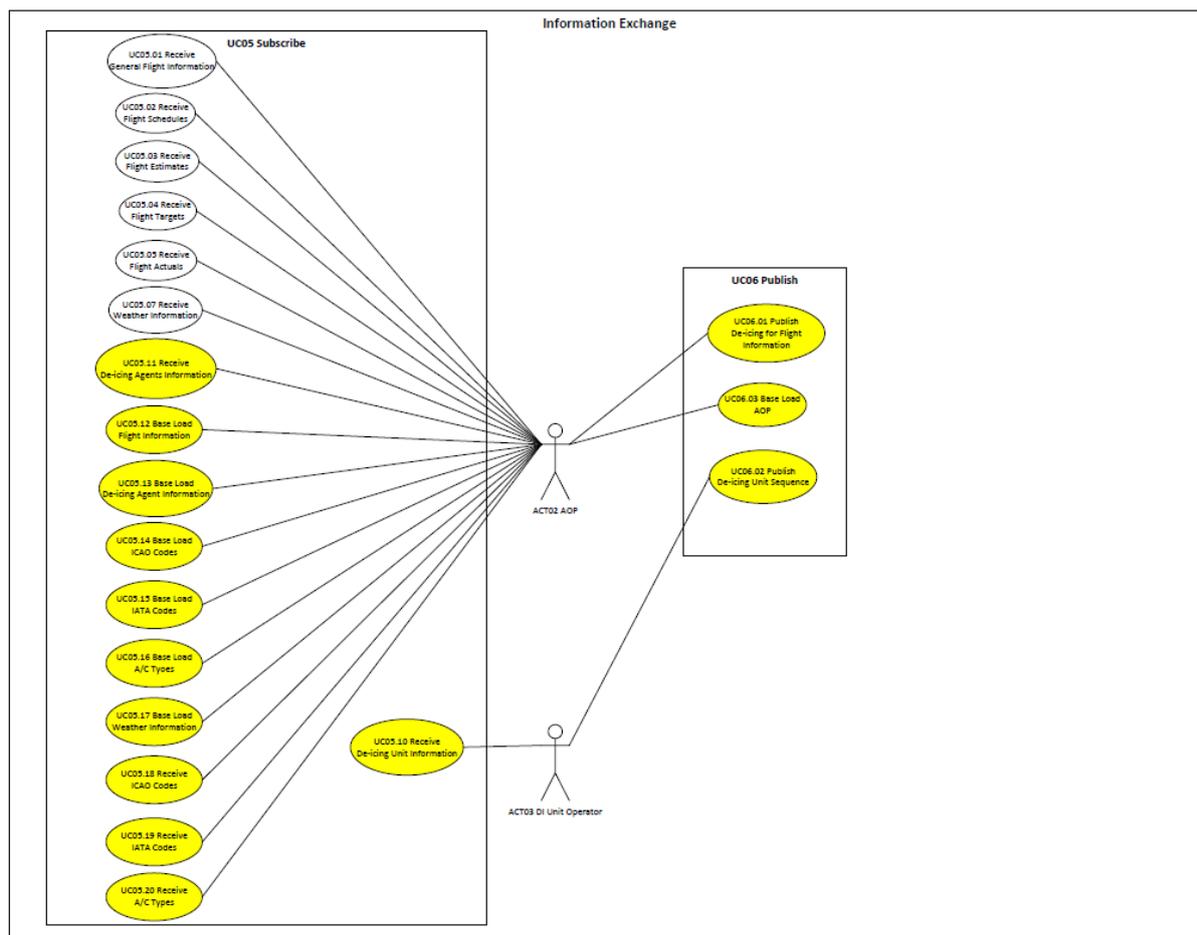


Figure 9: DIMT function “Information Exchange” use cases

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449 The role of ACT03 (DI Unit Operator) is not used, because there is no direct interaction between
450 ODISS and any de-icing unit operator in the prototype. This is managed by the De-icing Coordinator
451 for the purpose of the prototype. The ACT02 (A-CDM) is a technical role that is fulfilled by the A-CDM
452 implementation via the data interface.

453 The use cases from UC06 are responsible for publishing the information back to AOP. This is not in
454 scope of the ODISS prototype. The data receiving functionality of UC05 is the central data source the
455 gathers all flight data information and the status of de-icing units (by means of unavailabilities). It
456 prepares the input data (and stores it in the DIMT database) for the processing that is performed in
457 the Execution function.

458 The data reception relies on the correct configuration of the ODISS that is performed in the
459 Configuration function. Data consistency checks (by means of database constraints and
460 programmatic checks) are applied based on the configured values.

461 2.6.2.3 Execution

462 The sub function “Execution” is the core of the ODISS. This is where all the calculations are made
463 which results in the de-icing plan. It consists of estimated commencement of de-icing (ECZT) and
464 estimated end of de-icing (EEZT) for each flight to be de-iced. The planning algorithm takes into
465 account the upcoming weather, the size of the aircraft, the allocation of either mobile (for on stand
466 and after push de-icing) de-icing resources, i.e. de-icing rigs, or fixed (for remote de-icing) de-icing
467 resources, i.e. de-icing pads. The de-icing plan would be published to the AOP in the form of de-icing
468 time stamps. The planning phase will allow for visualisation of constrained situations in advance. The
469 de-icing time stamps made available to the AOP will be possible to send on to the NOP in order to
470 elucidate the final steps in the ATV.

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471 The use cases are quite extensive and contain a lot of data processing. The use cases are:

- 472 • UC Package UC08 Execution
 - 473 ○ UC08.01 Manage De-icing Plan
 - 474 ○ UC08.02 Receive Flight Information
 - 475 ○ UC08.03 Manage De-icing Status
 - 476 ○ UC08.04 Receive De-icing Request
 - 477 ○ UC08.05 Cancel De-icing Request
 - 478 ○ UC08.06 Cancel Expected De-icing Flag due to Final Confirmation of TOBT
 - 479 ○ UC08.07 Approve De-icing Plan
 - 480 ○ UC08.08 Manually Register Flights
 - 481 ○ UC08.11 Do Unit Allocation
 - 482 ○ UC08.12 Manage Units in Use
 - 483 ○ UC08.13 Apply Calculation De-icing Unit Allocation
 - 484 ○ UC08.15 Manage De-icing Unit Sequence
 - 485 ○ UC08.18 Retrieve EDIT
 - 486 ○ UC08.19 Manage Weather Categories
 - 487 ○ UC08.27 Monitor Events
 - 488 ○ UC08.28 Time
 - 489 ○ UC08.29 Manage De-icing Method
 - 490 ○ UC08.30 Manage Default De-icing Method
 - 491 ○ UC08.31 Register Override of De-icing Method
 - 492 ○ UC08.32 Manage Units in Use per De-icing assignment
 - 493 ○ UC08.33 Register Override Units in Use per De-icing assignment

494

495 The below picture (Figure 10: DIMT function “Execution” uses cases) is showed in a bigger version in
496 Appendix A, page 74.

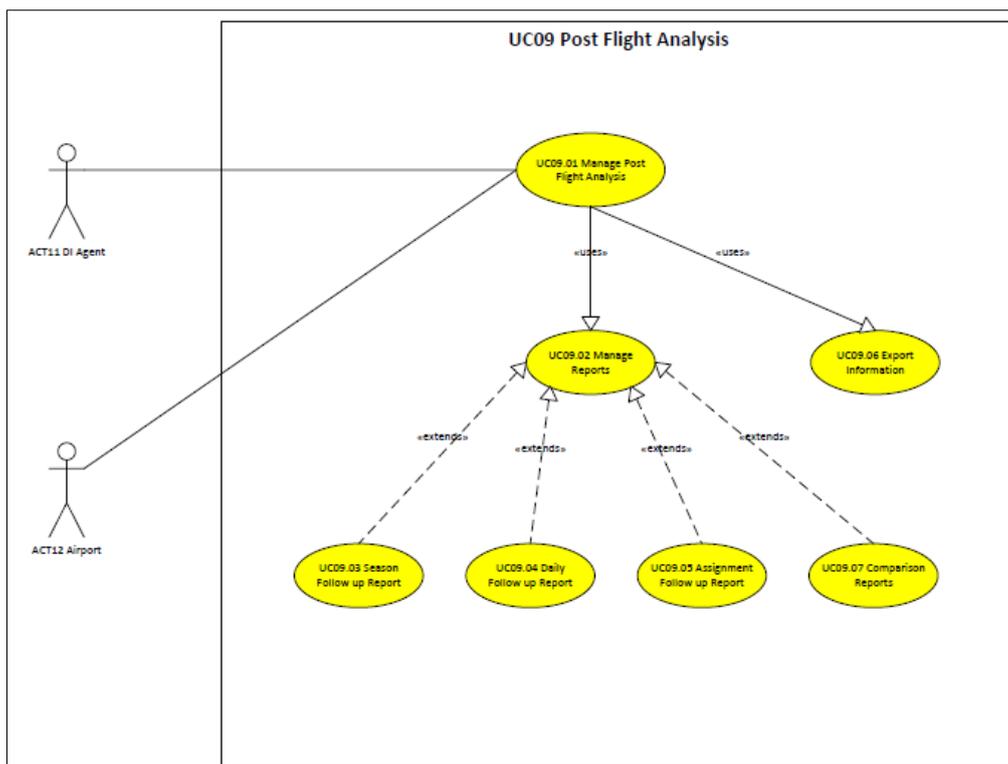


Figure 11: DIMT function “Post Operations Analysis” use cases

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The whole Post Operational Analysis function is not in scope of the DIMT prototype, ODISS.

2.6.2.5 Presentation

The user interface will be in two fashions, one list view and one Gantt chart for visualization of the de-icing plan. The de-icing coordinator user interaction with the system will primarily be through the Gantt chart. The use cases for the presentation and manual management of the de-icing plan are:

- UC08.09 Manage manual input in DIMT
- UC08.10 Manage De-icing Plan Overview

It is the De-Icing Coordinator user role that interacts with the presentation layer.

The Presentation function is in charge of providing the main control (as far as user interaction is concerned) and view for the Execution function.

2.7 Service View

N/A

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534 3 Functional block Functional and non-Functional 535 Requirements

536 3.1 Capabilities

537 3.1.1 Configuration Requirements

538 [REQ]

Identifier	REQ-06.06.02-TS-CONF.0001
Requirement	The DIMT shall contain a lookup table where estimated de-icing times can be retrieved.
Title	EDIT table
Status	<In Progress>
Rationale	Core function of the system
Category	<Functional>
Validation Method	
Verification Method	<Test>

539

540 [REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0818.0001	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED TO>	<Functional block>	Turn-round management	N/A
<ALLOCATED TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	06.06.02	N/A

541

542 [REQ]

Identifier	REQ-06.06.02-TS-CONF.0002
Requirement	The estimated de-icing times in the lookup table shall be differentiated depending on weather category, aircraft type and the number of de-icing rigs to be used.
Title	Differentiation of EDIT
Status	<In Progress>
Rationale	Core feature
Category	<Functional>
Validation Method	
Verification Method	<Test>

543

544 [REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0818.0001	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED TO>	<Functional block>	Turn-round management	N/A
<ALLOCATED TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	06.06.02	N/A

545

546 [REQ]

Identifier	REQ-06.06.02-TS-CONF.0003
Requirement	The DIMT shall allow the user to update the lookup table with estimated de-icing times through a dedicated user interface.
Title	EDIT table interface
Status	<In Progress>
Rationale	User friendliness for changes
Category	<Functional>

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Validation Method	
Verification Method	<Test>

547

548 [REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0002.0016	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Turn-round management	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	06.06.02	N/A

549

550 [REQ]

Identifier	REQ-06.06.02-TS-CONF.0004
Requirement	The DIMT shall allow the de-icing coordinator user role to define the start and end times of both the fixed planning window and the flexible planning window.
Title	Definition of planning windows
Status	<In Progress>
Rationale	User friendliness
Category	<Functional>
Validation Method	
Verification Method	<Test>

551

552 [REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0409.0002	<Partial>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0409.0003	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

553

554 [REQ]

Identifier	REQ-06.06.02-TS-CONF.0005
Requirement	The DIMT shall, by an on/off functionality, allow for the use of a flexible planning window only.
Title	Only flexible planning window
Status	<In Progress>
Rationale	User friendliness
Category	<Functional>
Validation Method	
Verification Method	<Test>

555

556 [REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0409.0004	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0002.0016	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	06.06.02	N/A

557

558 [REQ]

Identifier	REQ-06.06.02-TS-CONF.0006
Requirement	The DIMT shall allow for a definition of a temporary fixed planning window

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	within the flexible planning window in the Gantt view.
Title	Temporary fixed planning window
Status	<In Progress>
Rationale	User friendliness
Category	<Functional>
Validation Method	
Verification Method	<Test>

559
560

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0409.0005	<Partial>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0002.0016	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

561
562

[REQ]

Identifier	REQ-06.06.02-TS-CONF.0007
Requirement	The DIMT shall allow for user configuration of the x-axis (time scale) in the Gantt chart view.
Title	X-axis configuration
Status	<In Progress>
Rationale	User friendliness
Category	<Functional>
Validation Method	
Verification Method	<Test>

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564

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0002.0016	<Partial>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0810.0005	<Full>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

565
566

[REQ]

Identifier	REQ-06.06.02-TS-CONF.0008
Requirement	The DIMT shall allow for user configuration of the y-axis in the Gantt chart view.
Title	Y-axis configuration
Status	<In Progress>
Rationale	User friendliness
Category	<Functional>
Validation Method	
Verification Method	<Test>

567
568

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0002.0016	<Partial>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0810.0007	<Partial>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0810.0008	<Full>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A

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<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	06.06.02	N/A

569
570

[REQ]

Identifier	REQ-06.06.02-TS-CONF.0009
Requirement	The DIMT shall contain a lookup table where de-icing rigs are defined with regard to identification, the de-icing methods that can be executed with the rig and the aircraft types that can be served by the rig.
Title	De-icing rig lookup table
Status	<In Progress>
Rationale	Core function of the system
Category	<Functional>
Validation Method	
Verification Method	<Test>

571
572

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0108.0009	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	06.06.02	N/A

573
574

[REQ]

Identifier	REQ-06.06.02-TS-CONF.0010
Requirement	The DIMT shall allow the user to update the de-icing rig lookup table through a dedicated user interface.
Title	De-icing rig table interface
Status	<In Progress>
Rationale	User friendliness for changes
Category	<Functional>
Validation Method	
Verification Method	<Test>

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576

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0108.0009	<Partial>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0002.0016	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	06.06.02	N/A

577
578

[REQ]

Identifier	REQ-06.06.02-TS-CONF.0011
Requirement	The DIMT shall contain a lookup table where de-icing pad tracks are defined with regard to identification and what aircraft that can use the tracks.
Title	De-icing pad configuration
Status	<In Progress>
Rationale	Core function of the system
Category	<Functional>
Validation Method	
Verification Method	<Test>

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Relationship	Linked Element Type	Identifier	Compliance
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<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

581
582

[REQ]

Identifier	REQ-06.06.02-TS-CONF.0012
Requirement	The DIMT shall allow the user to update the de-icing pad track lookup table through a dedicated user interface.
Title	De-icing pad configuration changes
Status	<In Progress>
Rationale	User friendliness
Category	<Functional>
Validation Method	
Verification Method	<Test>

583
584

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0108.0010	<Partial>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0002.0016	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

585
586

[REQ]

Identifier	REQ-06.06.02-TS-CONF.0013
Requirement	The DIMT shall allow for configuration of a parameter "Tpush", of order one (1) minute, which shall be defined for each stand where after push de-icing is performed.
Title	After push parameter
Status	<In Progress>
Rationale	Pivotal parameter for after push de-icing
Category	<Functional>
Validation Method	
Verification Method	<Test>

587
588

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0304.0001	<Full>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

589
590

[REQ]

Identifier	REQ-06.06.02-TS-CONF.0014
Requirement	The DIMT shall contain a lookup table where the drive up time durations (in minutes) from stands/de-icing positions to another stand/de-icing position for the de-icing rigs are defined.
Title	Drive up time lookup table
Status	<In Progress>

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Rationale	Drive up time lookup table
Category	<Functional>
Validation Method	
Verification Method	<Test>

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592

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0306.0001	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

593
594

[REQ]

Identifier	REQ-06.06.02-TS-CONF.0015
Requirement	The DIMT shall allow for configuration of drive up times through a dedicated user interface.
Title	Drive up time table interface
Status	<In Progress>
Rationale	User friendliness
Category	<Functional>
Validation Method	
Verification Method	<Test>

595
596

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0306.0001	<Partial>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0002.0016	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

597
598

[REQ]

Identifier	REQ-06.06.02-TS-CONF.0016
Requirement	The DIMT shall allow for the DIMT administrator user role to set a configurable parameter "t" (in minutes) as a locally agreed parameter for Final Confirmation of TOBT.
Title	TOBT-t
Status	<In Progress>
Rationale	Important planning parameter
Category	<Functional>
Validation Method	
Verification Method	<Test>

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600

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0309.0001	<Full>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

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[REQ]

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Identifier	REQ-06.06.02-TS-CONF.0017
Requirement	The DIMT configuration shall include built-in checks of the configuration data consistency by means of database constraints.
Title	Data consistency
Status	<In Progress>
Rationale	Ensure the data consistency before it is used.
Category	<Functional>
Validation Method	
Verification Method	<Test>

603

604

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0002.0002	<Full>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

605

606

[REQ]

Identifier	REQ-06.06.02-TS-CONF.0018
Requirement	The DIMT shall provide configuration parameters to allow a modification of the calculation to predict the weather category for each flight.
Title	Weather category for each flight
Status	<In Progress>
Rationale	Important planning parameters
Category	<Functional>
Validation Method	
Verification Method	<Test>

607

608

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0806.0005	<Partial>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0806.0007	<Partial>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0806.0008	<Partial>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0818.0001	<Partial>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0818.0002	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

609

610

[REQ]

Identifier	REQ-06.06.02-TS-CONF.0019
Requirement	The DIMT shall provide a configuration parameter to allow a modification of the de-icing plan time range. The default value shall be 120 minutes.
Title	De-icing plan time range
Status	<In Progress>
Rationale	User friendliness
Category	<Functional>
Validation Method	
Verification Method	<Test>

611

612

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0002.0015	<Partial>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0801.0007	<Partial>

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<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0801.0008	<Partial>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0807.0003	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

613
614

615 3.1.2 Information Exchange Requirements

616 The DIMT prototype will be part of the VP-513 V3 validation, which is a live trial. As the influence and
617 effect of de-icing time stamps on other A-CDM time stamps have not been secured, the information
618 exchange from the DIMT to the AOP/A-CDM platform will not take place. Instead all output from the
619 DIMT will be logged and afterwards analysed. This means that requirement REQ-06.06.02-SPR-
620 0104.0001, REQ-06.06.02-SPR-0601.0001 and REQ-06.06.02-SPR-0807.0003 will not be adopted in
621 the technical specification.

622 The information exchange with the De-icing Unit Operator and De-Icing Units will not be part of VP-
623 513. This means that requirement REQ-06.06.02-SPR-0002.0013, REQ-06.06.02-SPR-0104.0002,
624 REQ-06.06.02-SPR-0501.0003, REQ-06.06.02-SPR-0510.0001, REQ-06.06.02-SPR-0602.0001 and
625 REQ-06.06.02-SPR-0816.0001 will not be adopted in the technical specification.

626

627 [REQ]

Identifier	REQ-06.06.02-TS-INEX.0001
Requirement	The DIMT shall receive the following Flight Information: Flight number, aircraft registration, aircraft code, aircraft ID, ICAO aircraft type, de-icing position, flight prioritization tag, SOBT, EOBT, TOBT, AOBT, TSAT, ASAT, EXOT, ETOT, TTOT, CTOT, ATOT from the A-CDM-platform
Title	Reception of Flight Information
Status	<In Progress>
Rationale	Necessary flight information
Category	<Functional>
Validation Method	
Verification Method	<Test>

628

629 [REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0501.0002	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Operations Plan Management	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

630

631 [REQ]

Identifier	REQ-06.06.02-TS-INEX.0002
Requirement	The DIMT shall receive pre-defined weather categories and probability of weather categories in minimum 15 minutes intervals for a time range between the actual time and minimum three (3) hours into the future.
Title	Reception of weather category
Status	<In Progress>
Rationale	The weather category is essential for EDIT determination
Category	<Functional>
Validation Method	
Verification Method	<Test>

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632
633

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0507.0001	<Full>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Operations Plan Management	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

634
635

[REQ]

Identifier	REQ-06.06.02-TS-INEX.0003
Requirement	The DIMT shall receive cancellation of de-icing for a flight from A-CDM platform.
Title	AOP cancellation of de-icing
Status	<In Progress>
Rationale	Necessary functionality for de-icing planning
Category	<Interoperability>
Validation Method	
Verification Method	<Test>

636
637

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0806.0004	<Full>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

638
639

[REQ]

Identifier	REQ-06.06.02-TS-INEX.0004
Requirement	The DIMT shall provide an interface to automatically read or retrieve ACZT, AEZT, ADIT and APZT from the de-icing agent's system(s). This interface shall be optionally switched on or off.
Title	Integration to de-icing agent's system
Status	<In Progress>
Rationale	Retrieval of actual time stamps
Category	<Interoperability>
Validation Method	
Verification Method	<Test>

640
641

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0501.0003	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0601.0001	<Partial>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0801.0008	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

642
643

[REQ]

Identifier	REQ-06.06.02-TS-INEX.0005
Requirement	The DIMT shall provide an interface to automatically read or retrieve de-icing rig allocation for a flight. This interface shall be optionally switched on or off.

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Title	Integration to de-icing agent's system
Status	<In Progress>
Rationale	Facilitation of de-icing rig allocation
Category	<Functional>
Validation Method	
Verification Method	<Test>

644
645

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0801.0006	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Operations Plan Management	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	06.06.02	N/A

646
647

[REQ]

Identifier	REQ-06.06.02-TS-INEX.0006
Requirement	The DIMT shall be able to read the additional weather data dew point temperature, outside air temperature and precipitation.
Title	Additional weather data
Status	<In Progress>
Rationale	Refined weather information
Category	<Functional>
Validation Method	
Verification Method	<Test>

648
649

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0809.0011	<Partial>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0818.0001	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	06.06.02	N/A

650
651

652 3.1.3 Execution Requirements

653 Preparation of procedures for DIMT execution, post-flight analysis, and training are not part of this
654 technical specification, because they are to be prepared at an operational level. This means that
655 requirement REQ-06.06.02-SPR-0001.0003, REQ-06.06.02-SPR-0001.0004, REQ-06.06.02-SPR-
656 0001.0006, REQ-06.06.02-SPR-0002.0009 and REQ-06.06.02-SPR-0002.0017 will not be adopted in
657 the technical specification.

658 3.1.3.1 Weather information Requirements

659

[REQ]

Identifier	REQ-06.06.02-TS-EXCW.0001
Requirement	The DIMT shall use four different weather categories: "Low", "Medium", "Severe" and "No De-icing"
Title	Weather categories
Status	<In Progress>
Rationale	The values of defined weather parameters are clustered to be categorized in different weather categories for easier management of weather influence on estimated de-icing times.

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Category	<Functional>
Validation Method	
Verification Method	<Test>

660
661

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0507.0001	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	06.06.02	N/A

662
663

[REQ]

Identifier	REQ-06.06.02-TS-EXCW.0002
Requirement	On reception of a weather category forecast change for a flight, the DIMT shall set the de-icing flag to "N" for flights with new predicated weather category "no de-icing" and de-icing flag "E", in case the previous weather forecast for this flight was "low".
Title	Weather category change Low → No de-icing
Status	<In Progress>
Rationale	In low weather category, dropping the forecast to "no de-icing" likely implies that really no de-icing is needed.
Category	<Functional>
Validation Method	
Verification Method	<Test>

664
665

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0806.0005	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	06.06.02	N/A

666
667

[REQ]

Identifier	REQ-06.06.02-TS-EXCW.0003
Requirement	On reception of a weather category forecast change for a flight, the DIMT shall keep the de-icing flag "E" (for a specified duration after the change) for flights with new predicated weather category "no de-icing" and de-icing flag "E", in case the previous weather forecast for this flight was "medium" or "severe".
Title	Weather category change Medium/Severe → No de-icing
Status	<In Progress>
Rationale	After having been standing in Medium/Severe weather for a while, it is very probable that the aircraft will need de-icing even though the weather has changed to no de-icing weather.
Category	<Functional>
Validation Method	
Verification Method	<Test>

668
669

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0806.0007	<Partial>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0806.0008	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED TO>	<Functional block>	Airport Resources and Facilities Planning	N/A

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<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

670
671

[REQ]

Identifier	REQ-06.06.02-TS-EXCW.0004
Requirement	The weather data that will be read by the DIMT shall be configurable.
Title	Configurable weather
Status	<In Progress>
Rationale	Refined weather information
Category	<Functional>
Validation Method	
Verification Method	<Test>

672
673

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0818.0001	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

674

675 3.1.3.2 Determination of EDIT Requirements

676
677

[REQ]

Identifier	REQ-06.06.02-TS-EXCE.0001
Requirement	The DIMT shall retrieve an estimated de-icing time (EDIT) depending on predicted weather category, aircraft type and number of de-icing rigs to be used from the EDIT lookup table.
Title	EDIT parameters
Status	<In Progress>
Rationale	EDIT depends heavily on weather conditions, size of the aircraft, extent of de-icing (de-icing method) and the number of de-icing rigs used to execute de-icing.
Category	<Functional>
Validation Method	
Verification Method	<Test>

678
679

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0818.0001	<Partial>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0108.0004	<Full>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<ALLOCATED_TO>	<Functional block>	Turn-round management	N/A
<ALLOCATED_TO>	<Functional block>	Performance Management	N/A
<ALLOCATED_TO>	<Functional block>	Airport Operations Plan Management	N/A
<ALLOCATED_TO>	<Functional block>	Airport Operations Plan Performance	N/A
<ALLOCATED_TO>	<Functional block>	Departure Management	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

680
681

[REQ]

Identifier	REQ-06.06.02-TS-EXCE.0002
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Requirement	The DIMT shall retrieve a default EDIT time when the only known parameters are EOBT, weather category and aircraft type.
Title	Default EDIT
Status	<In Progress>
Rationale	It should be possible to retrieve an EDIT even if the de-icing method and number of de-icing rigs to be used are unknown.
Category	<Functional>
Validation Method	
Verification Method	<Test>

682
683

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0818.0001	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<ALLOCATED_TO>	<Functional block>	Turn-round management	N/A
<ALLOCATED_TO>	<Functional block>	Performance Management	N/A
<ALLOCATED_TO>	<Functional block>	Airport Operations Plan Management	N/A
<ALLOCATED_TO>	<Functional block>	Airport Operations Plan Performance	N/A
<ALLOCATED_TO>	<Functional block>	Departure Management	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

684

685 3.1.3.3 Resources Management Requirements

686 De-icing resources mean two different things depending on the kind of de-icing that is performed.
687 When remote de-icing is performed, the critical de-icing resource is the tracks on the de-icing pad.
688 When on stand de-icing and after push de-icing are performed, the critical de-icing resource is the de-icing rigs. The DIMT shall handle both cases.

690

691 [REQ]

Identifier	REQ-06.06.02-TS-EXCR.0001
Requirement	The DIMT shall allocate available de-icing resources to each flight with a de-icing flag set to "E" or "R".
Title	Allocation of de-icing resources
Status	<In Progress>
Rationale	This is the core of the DIMT and the concept.
Category	<Functional>
Validation Method	
Verification Method	<Test>

692
693

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0804.0001	<Partial>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0819.0002	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

694
695

[REQ]

Identifier	REQ-06.06.02-TS-EXCR.0002
Requirement	The DIMT shall allocate de-icing resources to flights using allocation algorithms which take all necessary parameters into account, e.g.

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	TOBT/TTOT, availability of de-icing resources, aircraft size and driving times between stands.
Title	Allocation algorithms
Status	<In Progress>
Rationale	Without allocation algorithms it is not possible to make a sophisticated planning.
Category	<Functional>
Validation Method	
Verification Method	<Test>

696
697

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0108.0001	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

698
699

[REQ]

Identifier	REQ-06.06.02-TS-EXCR.0003
Requirement	The DIMT shall allow for the use of minimum three (3) allocation algorithms.
Title	Multiple algorithms
Status	<In Progress>
Rationale	There may be need to allocate de-icing resources in different ways.
Category	<Functional>
Validation Method	
Verification Method	<Test>

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701

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0108.0001	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

702
703

[REQ]

Identifier	REQ-06.06.02-TS-EXCR.0004
Requirement	The DIMT shall provide functionality to select which allocation algorithm that shall be used.
Title	Choose algorithms
Status	<In Progress>
Rationale	Different situations may require different allocation algorithms.
Category	<Functional>
Validation Method	
Verification Method	<Test>

704
705

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0108.0001	<Partial>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0811.0001	<Full>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A

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<ALLOCATED_TO>	<Project>	06.06.02	N/A
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[REQ]

Identifier	REQ-06.06.02-TS-EXCR.0005
Requirement	The DIMT shall contain an allocation algorithm that allocates resources with the purpose of using as few de-icing rigs as possible. This is achieved by selecting appropriate "default" settings in the EDIT lookup table.
Title	Minimize de-icing rigs
Status	<In Progress>
Rationale	A probable allocation purpose
Category	<Functional>
Validation Method	
Verification Method	<Test>

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[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0108.0002	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0818.0001	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

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[REQ]

Identifier	REQ-06.06.02-TS-EXCR.0006
Requirement	The DIMT shall contain functionality to keep track of to which flight each de-icing rig is allocated to in the de-icing planning.
Title	Differentiation of EDIT
Status	<In Progress>
Rationale	Core function of the system
Category	<Functional>
Validation Method	
Verification Method	<Test>

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713

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0108.0009	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

714

3.1.3.4 De-icing Status Management Requirements

716

[REQ]

Identifier	REQ-06.06.02-TS-EXCS.0001
Requirement	The DIMT shall attribute a de-icing flag to each flight.
Title	Attribute de-icing flag
Status	<In Progress>
Rationale	The de-icing flag is pivotal for the de-icing planning in the DIMT
Category	<Functional>
Validation Method	
Verification Method	<Test>

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[REQ Trace]

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Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0409.0006	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

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[REQ]

Identifier	REQ-06.06.02-TS-EXCS.0002
Requirement	The de-icing flag shall have one of four values: “E” for estimated de-icing “R” for requested de-icing “C” for cancelled de-icing “N”, no value, during weather category “No De-icing”
Title	De-icing flag values
Status	<In Progress>
Rationale	The value of the de-icing flag will decide if the flight shall be included in or excluded from the de-icing planning.
Category	<Functional>
Validation Method	
Verification Method	<Test>

722
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[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0409.0006	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

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725

[REQ]

Identifier	REQ-06.06.02-TS-EXCS.0003
Requirement	The DIMT shall set the de-icing flag to “E” for flights with an EOBT within the time span where the valid weather category value is “Low”, “Medium” or “Severe”.
Title	De-icing flag E
Status	<In Progress>
Rationale	The E-value to the de-icing flag will show that it is a flight selected by the DIMT as a potential candidate for de-icing.
Category	<Functional>
Validation Method	
Verification Method	<Test>

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727

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0819.0002	<Full>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

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[REQ]

Identifier	REQ-06.06.02-TS-EXCS.0004
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Requirement	The DIMT shall set the de-icing flag to "R" for a flight when an actual request of de-icing is received for that flight.
Title	De-icing flag R
Status	<In Progress>
Rationale	The R-value to the de-icing flag will show that the flight has requested de-icing and shall not be deleted from the de-icing planning.
Category	<Functional>
Validation Method	
Verification Method	<Test>

730

731 [REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0804.0001	<Full>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	06.06.02	N/A

732

733 [REQ]

Identifier	REQ-06.06.02-TS-EXCS.0005
Requirement	The DIMT shall set the de-icing flag to "C" for a flight when an actual cancellation of de-icing is received for that flight.
Title	De-icing flag C
Status	<In Progress>
Rationale	The C-value to the de-icing flag will show that the flight has cancelled de-icing and shall be deleted from the de-icing planning.
Category	<Functional>
Validation Method	
Verification Method	<Test>

734

735 [REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0805.0001	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0806.0002	<Full>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	06.06.02	N/A

736

737 [REQ]

Identifier	REQ-06.06.02-TS-EXCS.0006
Requirement	The DIMT shall set the de-icing flag to "N" for flights with an EOBT within the time span where the valid weather category value is "No De-icing".
Title	De-icing flag N
Status	<In Progress>
Rationale	When the weather category indicates that there is no need for de-icing, i.e. weather category "No De-icing", the flights within that time span shall not be considered as a candidate for de-icing.
Category	<Functional>
Validation Method	
Verification Method	<Test>

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739 [REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0806.0005	<Full>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>

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<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

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[REQ]

Identifier	REQ-06.06.02-TS-EXCS.0007
Requirement	The DIMT shall allow the user to cancel de-icing for a flight.
Title	Manual cancellation of de-icing
Status	<In Progress>
Rationale	Necessary functionality for de-icing coordinator
Category	<Functional>
Validation Method	
Verification Method	<Test>

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[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0002.0016	<Partial>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0806.0003	<Full>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

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745

[REQ]

Identifier	REQ-06.06.02-TS-EXCS.0008
Requirement	The DIMT shall consider every change of value to the de-icing flag as a need for re-calculation of the de-icing plan and start re-calculating.
Title	De-icing flag change
Status	<In Progress>
Rationale	A change in the de-icing flag indicates that the status of potential or planned de-icing has changed, and that a new de-icing plan needs to be calculated.
Category	<Functional>
Validation Method	
Verification Method	<Test>

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[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0803.0001	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

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[REQ]

Identifier	REQ-06.06.02-TS-EXCS.0009
Requirement	The DIMT shall produce notifications to the user of the DIMT for all changes of value in the de-icing flag that are within the fixed planning window.
Title	De-icing flag notifications to user
Status	<In Progress>
Rationale	In order to have an overview of the situation, the user (de-icing coordinator) shall be notified when something changes close to execution.
Category	<Functional>
Validation Method	
Verification Method	<Test>

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751

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0803.0001	<Partial>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0805.0002	<Partial>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0806.0006	<Full>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	06.06.02	N/A

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[REQ]

Identifier	REQ-06.06.02-TS-EXCS.0010
Requirement	The DIMT shall set the de-icing flag to “C” for a flight when an actual request of de-icing hasn’t been received at the time for TOBT-t (final confirmation of TOBT) for that flight.
Title	De-icing flag at TOBT-t
Status	<In Progress>
Rationale	In order to manage the situation in de-icing conditions, requests for de-icing need to be done as early as possible. The time limit is set to the A-CDM milestone #9, Final confirmation of TOBT, i.e. TOBT-t.
Category	<Functional>
Validation Method	
Verification Method	<Test>

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755

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0806.0001	<Full>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	06.06.02	N/A

756

3.1.3.5 De-icing Planning Requirements

757
758

[REQ]

Identifier	REQ-06.06.02-TS-EXCP.0001
Requirement	The DIMT shall perform planning with a one (1) minute granularity.
Title	Planning accuracy
Status	<In Progress>
Rationale	Planning constraint
Category	<Functional>
Validation Method	
Verification Method	<Test>

759
760

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0801.0006	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	06.06.02	N/A

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[REQ]

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Identifier	REQ-06.06.02-TS-EXCP.0002
Requirement	The DIMT shall process the following Flight Information when creating and updating the de-icing plan: Flight number, SOBT Aircraft registration, Aircraft ID, Aircraft type, Flight Prioritization Tag, EOBT, TOBT, AOBT, ETOT, TTOT, CTOT, ATOT, TSAT, ASAT and De-icing position.
Title	Flight information as input to the de-icing plan
Status	<In Progress>
Rationale	Pivotal data for de-icing planning
Category	<Functional>
Validation Method	
Verification Method	<Test>

763
764

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0501.0002	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0802.0001	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

765
766

[REQ]

Identifier	REQ-06.06.02-TS-EXCP.0003
Requirement	The de-icing plan shall include all flights that have an xOBT within the configured planning horizon until they get an ATOT assigned.
Title	De-icing plan content
Status	<In Progress>
Rationale	Planning constraint
Category	<Functional>
Validation Method	
Verification Method	<Test>

767
768

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0801.0001	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

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770

[REQ]

Identifier	REQ-06.06.02-TS-EXCP.0004
Requirement	The DIMT shall select the flights to be planned for de-icing among the flights with an xOBT and a de-icing flag with value "E" or "R" within the next three hours.
Title	Selection of flights for de-icing planning
Status	<In Progress>
Rationale	Planning constraint
Category	<Functional>
Validation Method	
Verification Method	<Test>

771
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[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0801.0001	<Partial>

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<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	06.06.02	N/A

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774

[REQ]

Identifier	REQ-06.06.02-TS-EXCP.0005
Requirement	The DIMT shall handle the planning in two perspectives: 1. The Fixed planning window, where the updated planning results shall be presented in the form of notifications 2. The Flexible planning window, where the updated planning results shall directly replace the old de-icing plan.
Title	Planning windows
Status	<In Progress>
Rationale	The planning windows will allow the de-icing coordinator user role adapt his/her working situation and as all changes have to be acknowledged by the de-icing coordinator user role this is a way of avoiding unnecessary fluctuations in the data.
Category	<Functional>
Validation Method	
Verification Method	<Test>

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[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0002.0015	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0409.0001	<Full>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	06.06.02	N/A

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778

[REQ]

Identifier	REQ-06.06.02-TS-EXCP.0006
Requirement	The DIMT shall in the planning use the latest update of the A-CDM timestamps, meaning that if an actual time is available it should be used, the next choice is target times and estimated times are used as a fall-back if no actual and target times are available.
Title	Latest time stamp update
Status	<In Progress>
Rationale	Planning constraint
Category	<Functional>
Validation Method	
Verification Method	<Test>

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[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0802.0001	<Partial>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0802.0002	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0802.0003	<Full>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	06.06.02	N/A

781

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[REQ]

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Identifier	REQ-06.06.02-TS-EXCP.0007
Requirement	The DIMT shall – for on stand de-icing - calculate the earliest possible ECZT as xOBT-EDIT.
Title	Earliest ECZT for on stand de-icing
Status	<In Progress>
Rationale	Planning constraint
Category	<Functional>
Validation Method	
Verification Method	<Test>

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784 [REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0801.0002	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

785

786 [REQ]

Identifier	REQ-06.06.02-TS-EXCP.0008
Requirement	The DIMT shall – for on stand de-icing - calculate the latest possible ECZT as xSAT-EDIT.
Title	Latest ECZT for on stand de-icing
Status	<In Progress>
Rationale	Planning constraint
Category	<Functional>
Validation Method	
Verification Method	<Test>

787

788 [REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0801.0002	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

789

790 [REQ]

Identifier	REQ-06.06.02-TS-EXCP.0009
Requirement	The DIMT shall – for after push de-icing - calculate the earliest possible ECZT as xOBT+Tpush, where Tpush is configurable margin of 1 minute.
Title	Earliest ECZT for after push de-icing
Status	<In Progress>
Rationale	Planning constraint
Category	<Functional>
Validation Method	
Verification Method	<Test>

791

792 [REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0801.0003	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A

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<ALLOCATED_TO>	<Project>	06.06.02	N/A
[REQ]			
Identifier	REQ-06.06.02-TS-EXCP.0010		
Requirement	The DIMT shall – for after push de-icing - calculate the latest possible ECZT as xTOT-VTT-EDIT.		
Title	Latest ECZT for after push de-icing		
Status	<In Progress>		
Rationale	Planning constraint		
Category	<Functional>		
Validation Method			
Verification Method	<Test>		

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796

[REQ Trace]			
Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0801.0003	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

797
798

[REQ]			
Identifier	REQ-06.06.02-TS-EXCP.0011		
Requirement	The DIMT shall – for remote de-icing - calculate the earliest possible ECZT as xSAT+VTT, where VTT is the taxi time from stand to de-icing pad.		
Title	Earliest ECZT for remote de-icing		
Status	<In Progress>		
Rationale	Planning constraint		
Category	<Functional>		
Validation Method			
Verification Method	<Test>		

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800

[REQ Trace]			
Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0801.0004	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

801
802

[REQ]			
Identifier	REQ-06.06.02-TS-EXCP.0012		
Requirement	The DIMT shall – for remote de-icing - calculate the latest possible ECZT as xTOT+Trunway-EDIT, where Trunway is configurable to move from pad to runway of order 2 minutes.		
Title	Latest ECZT for remote de-icing		
Status	<In Progress>		
Rationale	Planning constraint		
Category	<Functional>		
Validation Method			
Verification Method	<Test>		

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804

[REQ Trace]			
Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0801.0004	<Partial>

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<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

805
806

[REQ]

Identifier	REQ-06.06.02-TS-EXCP.0013
Requirement	The DIMT shall aim to calculate ECZT with the latest possible time.
Title	Latest ECZT calculated
Status	<In Progress>
Rationale	Planning constraint
Category	<Functional>
Validation Method	
Verification Method	<Test>

807
808

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0801.0002	<Partial>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0801.0003	<Partial>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0801.0004	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

809
810

[REQ]

Identifier	REQ-06.06.02-TS-EXCP.0014
Requirement	The DIMT shall offer the possibility to switch to calculation of ECZT with the earliest possible time, an “as soon as possible” mode, by means of a dedicated preference page.
Title	“As soon as possible” mode
Status	<In Progress>
Rationale	Planning constraint
Category	<Functional>
Validation Method	
Verification Method	<Test>

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812

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0801.0002	<Partial>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0801.0003	<Partial>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0801.0004	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

813
814

[REQ]

Identifier	REQ-06.06.02-TS-EXCP.0015
Requirement	The DIMT shall optimise the de-icing plan on the following two criteria: <ol style="list-style-type: none"> 1. As much as possible de-icing requests shall be fulfilled in a consistent manner 2. In case of equal quality on criterion 1, the accumulated distance to latest possible ECZT (or to earliest possible, if selected) shall be

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	minimised.
Title	Optimization criteria
Status	<In Progress>
Rationale	Planning constraint
Category	<Functional>
Validation Method	
Verification Method	<Test>

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816

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0801.0005	<Partial>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0801.0006	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

817
818

[REQ]

Identifier	REQ-06.06.02-TS-EXCP.0016
Requirement	The DIMT shall create a de-icing plan for a mix between on stand, after push and remote de-icing or a subset of these.
Title	Mixed mode de-icing
Status	<In Progress>
Rationale	Airports may use more than one type of de-icing.
Category	<Functional>
Validation Method	
Verification Method	<Test>

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[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0801.0001	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

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822

[REQ]

Identifier	REQ-06.06.02-TS-EXCP.0017
Requirement	If the calculated ECZT cannot be met for a flight, the new assigned ECZT shall be as soon as possible when the required resources (de-icing units or tracks) become available.
Title	Conflict resolution
Status	<In Progress>
Rationale	Planning constraint
Category	<Functional>
Validation Method	
Verification Method	<Test>

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[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0108.0006	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0108.0008	<Full>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A

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<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	06.06.02	N/A

825
826

[REQ]

Identifier	REQ-06.06.02-TS-EXCP.0018
Requirement	The DIMT shall calculate a predicted weather category for each flight based on the weather conditions during the whole ATV.
Title	Weather category
Status	<In Progress>
Rationale	Planning constraint
Category	<Functional>
Validation Method	
Verification Method	<Test>

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[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0806.0005	<Partial>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0806.0007	<Partial>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0806.0008	<Partial>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0818.0001	<Partial>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0818.0002	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	06.06.02	N/A

829
830

[REQ]

Identifier	REQ-06.06.02-TS-EXCP.0019
Requirement	In determining the predicted weather category the DIMT shall use a parameter for the maximum age of weather information before EOBT to be considered during the ATV.
Title	Determination of weather category
Status	<In Progress>
Rationale	Refinement of weather category
Category	<Functional>
Validation Method	
Verification Method	<Test>

831
832

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0806.0005	<Partial>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0806.0007	<Partial>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0806.0008	<Partial>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0818.0001	<Partial>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0818.0002	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	06.06.02	N/A

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834

[REQ]

Identifier	REQ-06.06.02-TS-EXCP.0020
Requirement	In determining the predicted weather category for a flight the DIMT shall use a parameter for the deviation in weather category between the most severe category during the ATV and the resulting prediction.
Title	Determination of weather category
Status	<In Progress>

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Rationale	Refinement of weather category
Category	<Functional>
Validation Method	
Verification Method	<Test>

835

836 [REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0806.0005	<Partial>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0806.0007	<Partial>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0806.0008	<Partial>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0818.0001	<Partial>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0818.0002	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	06.06.02	N/A

837

838 [REQ]

Identifier	REQ-06.06.02-TS-EXCP.0021
Requirement	The DIMT shall use the ACZT, AEZT and ADIT to refine the planning results of subsequent flights.
Title	Actual values for planning de-icing sequence
Status	<In Progress>
Rationale	Correctness in planning
Category	<Functional>
Validation Method	
Verification Method	<Test>

839

840 [REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0801.0006	<Partial>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0801.0008	<Partial>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0802.0003	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

841

842 3.1.4 Post Operations Analysis Requirements

843 The operational documents, OSED, SPR and INTEROP do not contain requirements on the post
844 operations analysis. Regarding the generation of reports for post operational analysis, it is assumed
845 that it can be generated by a commercial off-the-shelf platform. The DIMT prototype will not include
846 this functionality, and therefore, will not publish, send, store, etc. reports.

847

848 3.1.5 Presentation Requirements

849 [REQ]

Identifier	REQ-06.06.02-TS-PRES.0001
Requirement	The DIMT shall present the de-icing plan in two formats, a flight list view and a Gantt chart like presentation.
Title	Two presentation formats
Status	<In Progress>
Rationale	The two formats will serve different purposes for the de-icing coordinator

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	user role.
Category	<Functional>
Validation Method	
Verification Method	<Test>

850

851 [REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0801.0007	<Full>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	06.06.02	N/A

852

853 [REQ]

Identifier	REQ-06.06.02-TS-PRES.0002
Requirement	The DIMT shall always display date and time to the user.
Title	Time and date visible
Status	<In Progress>
Rationale	User friendliness
Category	<Functional>
Validation Method	
Verification Method	<Test>

854

855 [REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0002.0016	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	06.06.02	N/A

856

857 [REQ]

Identifier	REQ-06.06.02-TS-PRES.0003
Requirement	The flight list view shall contain the following information about a flight: <ul style="list-style-type: none"> • Flight number • A/C registration • A/C type • Stand number • EOBT/TOBT/AOBT • APZT • ECZT/ACZT • EDIT/ADIT • TTOT/ATOT • Weather category • Rig/track assignment
Title	Content flight list view
Status	<In Progress>
Rationale	The content of the flight list view
Category	<Functional>
Validation Method	
Verification Method	<Test>

858

859 [REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0801.0008	<Full>

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<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

860

861 [REQ]

Identifier	REQ-06.06.02-TS-PRES.0004
Requirement	The DIMT shall provide functionality to sort the flight list view on the different columns.
Title	Sorting of flight list view
Status	<In Progress>
Rationale	User friendliness
Category	<Functional>
Validation Method	
Verification Method	<Test>

862

863 [REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0002.0016	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

864

865

866 [REQ]

Identifier	REQ-06.06.02-TS-PRES.0005
Requirement	The DIMT shall provide functionality to make a simultaneous change of EDIT for multiple flights in the flight list view.
Title	Change of EDIT for multiple flights
Status	<In Progress>
Rationale	User friendliness
Category	<Functional>
Validation Method	
Verification Method	<Test>

867

868 [REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0002.0016	<Partial>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0809.0004	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

869

870 [REQ]

Identifier	REQ-06.06.02-TS-PRES.0006
Requirement	The DIMT shall provide a de-icing rig/de-icing pad track list view that focus on the use of de-icing rigs/de-icing pad tracks.
Title	Rig/track list view
Status	<In Progress>
Rationale	Overview of the use of rigs/tracks.
Category	<Functional>
Validation Method	

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Verification Method	<Test>		
[REQ Trace]			
Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0002.0016	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	06.06.02	N/A

873
874

[REQ]	
Identifier	REQ-06.06.02-TS-PRES.0007
Requirement	The rig/track list view shall contain the following information: <ul style="list-style-type: none"> • Rig/track name • Flight number • De-icing position • EOBT/TOBT/AOBT • APZT • ECZT/ACZT • EDIT/ADIT • TTOT/ATOT • De-icing method
Title	Rig/track list view
Status	<In Progress>
Rationale	Overview of the use of rigs/tracks
Category	<Functional>
Validation Method	
Verification Method	<Test>

875
876

[REQ Trace]			
Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0002.0016	<Partial>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0109.0001	<Full>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	06.06.02	N/A

877
878

[REQ]	
Identifier	REQ-06.06.02-TS-PRES.0008
Requirement	The DIMT shall provide functionality to sort the rig/track list view on the different columns.
Title	Sorting of flight list view
Status	<In Progress>
Rationale	User friendliness
Category	<Functional>
Validation Method	
Verification Method	<Test>

879
880

[REQ Trace]			
Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0002.0016	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A

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<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	06.06.02	N/A

881
882

[REQ]

Identifier	REQ-06.06.02-TS-PRES.0009
Requirement	The Gantt chart view shall present the de-icing plan with time on the x-axis and de-icing rigs on the y-axis for on stand and after push de-icing.
Title	Gantt with rigs
Status	<In Progress>
Rationale	Design of the Gantt chart view
Category	<Functional>
Validation Method	
Verification Method	<Test>

883
884

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0810.0001	<Partial>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0810.0010	<Full>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	06.06.02	N/A

885
886

[REQ]

Identifier	REQ-06.06.02-TS-PRES.0010
Requirement	The Gantt chart view shall present the de-icing plan with time on the x-axis and de-icing pad tracks on the y-axis for remote de-icing.
Title	Gantt with tracks
Status	<In Progress>
Rationale	Design of the Gantt chart view
Category	<Functional>
Validation Method	
Verification Method	<Test>

887
888

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0810.0001	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	06.06.02	N/A

889
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[REQ]

Identifier	REQ-06.06.02-TS-PRES.0011
Requirement	The Gantt chart view shall show current time as a vertical line, indicating whether it is Local Time or UTC.
Title	Current time in Gantt view
Status	<In Progress>
Rationale	Situational awareness
Category	<Functional>
Validation Method	
Verification Method	<Test>

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892

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0002.0016	<Partial>

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<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0810.0002	<Full>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	06.06.02	N/A

893
894

[REQ]

Identifier	REQ-06.06.02-TS-PRES.0012
Requirement	The Gantt chart view shall be horizontally scrollable and clearly display the overview the past time window and active planning windows.
Title	Time period of the Gantt chart view
Status	<In Progress>
Rationale	Situational awareness
Category	<Functional>
Validation Method	
Verification Method	<Test>

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896

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0810.0006	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

897
898

[REQ]

Identifier	REQ-06.06.02-TS-PRES.0013
Requirement	The Gantt chart view shall display the colour coded weather category in the upper part of the view along the x-axis.
Title	Weather category in the Gantt chart view
Status	<In Progress>
Rationale	User friendliness
Category	<Functional>
Validation Method	
Verification Method	<Test>

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900

[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0810.0023	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	06.06.02	N/A

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902

[REQ]

Identifier	REQ-06.06.02-TS-PRES.0014
Requirement	The DIMT shall include functionality for making one or more resources, shown on the y-axis, unavailable/available in the valid allocation algorithm for a certain time span by user actions in the Gantt chart view.
Title	Unavailability of de-icing resources
Status	<In Progress>
Rationale	User friendliness
Category	<Functional>
Validation Method	

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Verification Method	<Test>		
[REQ Trace]			
Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0002.0016	<Partial>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0810.0009	<Partial>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0810.0032	<Full>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

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906

[REQ]	
Identifier	REQ-06.06.02-TS-PRES.0015
Requirement	The DIMT shall contain functionality to show detailed information about a de-icing resource, at least possible de-icing methods (for de-icing rigs), configuration (for de-icing tracks) present assignment, EDIT, ECZT, EEZT, de-icing position as well as possible collaborating de-icing rigs/simultaneously used tracks by one aircraft in a tooltip window when hovering the mouse over a de-icing resource.
Title	Detailed information about de-icing resources
Status	<In Progress>
Rationale	User friendliness
Category	<Functional>
Validation Method	
Verification Method	<Test>

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908

[REQ Trace]			
Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0002.0016	<Partial>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0810.0029	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0810.0031	<Full>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

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910

[REQ]	
Identifier	REQ-06.06.02-TS-PRES.0016
Requirement	The DIMT shall present the fixed planning window with a background.
Title	Grey fixed planning window
Status	<In Progress>
Rationale	User friendliness
Category	<Functional>
Validation Method	
Verification Method	<Test>

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912

[REQ Trace]			
Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0002.0016	<Partial>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0810.0006	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

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[REQ]

Identifier	REQ-06.06.02-TS-PRES.0017
Requirement	The DIMT shall in the Gantt chart view upper part show: <ul style="list-style-type: none"> Flights with de-icing flag “E” or “R”; represented as a rectangular area displaying the flight number with the x-coordinates (ECZT; ECZT+EDIT) and the y-coordinates corresponding to the resource/-s to be used Drive-up time for the de-icing rig to the next stand (for on stand and after push de-icing) “Toffpad”, i.e. time for the aircraft to leave the de-icing pad (for remote de-icing)
Title	Gantt chart view content upper part
Status	<In Progress>
Rationale	Core feature of the DIMT
Category	<Functional>
Validation Method	
Verification Method	<Test>

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[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0810.0011	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0810.0013	<Full>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

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[REQ]

Identifier	REQ-06.06.02-TS-PRES.0018
Requirement	The DIMT shall in the Gantt chart view lower part show without overlap: <ul style="list-style-type: none"> Scheduled flights for which no estimated times are known with de-icing flag “E” or “R”; represented as a rectangular area displaying the flight number with the x-coordinates (SOBT; SOBT+OBTmargin) Flights with de-icing flag “N” or “C”, represented as a rectangular area with x-coordinates (xOBT;xOBT+OBT margin) with OBTmargin configurable and nominally 5 minutes.
Title	Gantt chart view content lower part
Status	<In Progress>
Rationale	Core feature of the DIMT
Category	<Functional>
Validation Method	
Verification Method	<Test>

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[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0810.0017	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0810.0018	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0810.0020	<Full>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

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[REQ]

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Identifier	REQ-06.06.02-TS-PRES.0019
Requirement	The DIMT shall contain functionality to show detailed information about a flight, at least registration number, EDIT, ECZT, EEZT, de-icing position as well as possible collaborating de-icing rigs (for on stand and after push de-icing) in a tooltip window when hovering the mouse over a rectangular area representing a flight.
Title	Tooltip window
Status	<In Progress>
Rationale	User friendliness
Category	<Functional>
Validation Method	
Verification Method	<Test>

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[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0002.0016	<Partial>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0810.0012	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0810.0031	<Full>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

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[REQ]

Identifier	REQ-06.06.02-TS-PRES.0020
Requirement	The DIMT shall contain functionality to open a properties window for a flight when clicking the right mouse button where changes can be made concerning actual assignment of de-icing rigs/tracks and EDIT (when ECZT is within the fixed planning window) or de-icing method, number of de-icing rigs and EDIT (when ECZT is outside the fixed planning window).
Title	Properties window for a flight
Status	<In Progress>
Rationale	User friendliness
Category	<Functional>
Validation Method	
Verification Method	<Test>

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[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0002.0016	<Partial>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0809.0001	<Partial>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0809.0010	<Partial>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0810.0034	<Full>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

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[REQ]

Identifier	REQ-06.06.02-TS-PRES.0021
Requirement	The DIMT shall provide functionality to change the de-icing flag for a flight to "R" or "C" in the Gantt chart view.
Title	Change of de-icing flag in the Gantt chart view
Status	<In Progress>
Rationale	User friendliness
Category	<Functional>

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Validation Method	
Verification Method	<Test>

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[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0002.0016	<Partial>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0809.0001	<Partial>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0809.0006	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

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[REQ]

Identifier	REQ-06.06.02-TS-PRES.0022
Requirement	The DIMT shall provide functionality to manually change the ECZT for a flight. It shall be available in the fixed planning window, by the use of “drag and drop” in the Gantt chart view.
Title	Change of ECZT
Status	<In Progress>
Rationale	User friendliness
Category	<Functional>
Validation Method	
Verification Method	<Test>

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[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0002.0016	<Partial>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0809.0001	<Partial>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0809.0007	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0809.0009	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

937
938

[REQ]

Identifier	REQ-06.06.02-TS-PRES.0023
Requirement	The DIMT shall provide colour coding functionality to differentiate “estimated”, “target” and “actual” times in the different views.
Title	Differentiation of status of time stamps
Status	<In Progress>
Rationale	User friendliness
Category	<Functional>
Validation Method	
Verification Method	<Test>

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[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0002.0016	<Partial>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0810.0014	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

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[REQ]

Identifier	REQ-06.06.02-TS-PRES.0025
Requirement	The DIMT shall allow the user to choose which colour to use when colour coding functionality is available.
Title	Configurable colours
Status	<In Progress>
Rationale	User friendliness
Category	<Functional>
Validation Method	
Verification Method	<Test>

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[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0810.0014	<Partial>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0810.0023	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

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[REQ]

Identifier	REQ-06.06.02-TS-PRES.0027
Requirement	The DIMT shall notify the de-icing coordinator user role when the de-icing plan shows that ECZT for a flight can not be met.
Title	Notification of not met ECZT
Status	<In Progress>
Rationale	When the de-icing plan can not meet time stamps the de-icing coordinator needs to be made aware of that.
Category	<Functional>
Validation Method	
Verification Method	<Test>

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[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0108.0005	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0108.0007	<Full>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

949
950

[REQ]

Identifier	REQ-06.06.02-TS-PRES.0028
Requirement	It shall be possible for the de-icing coordinator role to manually update data in the fixed planning window in the DIMT, i.e. de-icing position, EDIT, ECZT, EEZT and de-icing flag that results from the weather category.
Title	Manual updates in fixed planning window
Status	<In Progress>
Rationale	Soon to be activities might be necessary to update and in that case involved actors need to be made aware of that.
Category	<Functional>
Validation Method	
Verification Method	<Test>

951

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952 [REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0809.0001	<Partial>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0809.0004	<Partial>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0809.0005	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0809.0007	<Full>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0809.0009	<Partial>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0809.0011	<Partial>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0002.0018	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

953

954 [REQ]

Identifier	REQ-06.06.02-TS-PRES.0029
Requirement	The DIMT shall – instead of automatically updating the de-icing plan in the fixed planning window – create notifications of the data that have changed in the latest update of the de-icing plan and highlight any resulting conflicts in the planning sequence.
Title	No automatic updates in fixed planning window
Status	<In Progress>
Rationale	Soon to be activities might be necessary to update and in that case involved actors need to be made aware of that.
Category	<Functional>
Validation Method	
Verification Method	<Test>

955

956 [REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0809.0002	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

957

958 [REQ]

Identifier	REQ-06.06.02-TS-PRES.0030
Requirement	The DIMT shall produce notifications when conflicts occur in the de-icing plan, e.g. when ECZT can not be met, when flights with manually set ECZT have moved out of nominal range, when updates of xOBT, TSAT and xTOT occur in the fixed planning window.
Title	Notifications of conflict in the de-icing planning
Status	<In Progress>
Rationale	Situational awareness
Category	<Functional>
Validation Method	
Verification Method	<Test>

959

960 [REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0810.0039	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A

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961
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<ALLOCATED TO>	<Project>	06.06.02	N/A
[REQ]			
Identifier	REQ-06.06.02-TS-PRES.0031		
Requirement	The DIMT shall produce notifications in the following cases: when a cancellation of a requested de-icing is made, when the weather category changes and when flights close to TOBT-t still have de-icing flag as "E".		
Title	Notifications		
Status	<In Progress>		
Rationale	User friendliness		
Category	<Functional>		
Validation Method			
Verification Method	<Test>		

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[REQ Trace]			
Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0805.0002	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	06.06.02	N/A

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[REQ]			
Identifier	REQ-06.06.02-TS-PRES.0032		
Requirement	The DIMT shall use a specific colour coding in the Gantt chart when conflicts arise from manual changes applied to the de-icing details.		
Title	Conflicts after manual updates in fixed planning window		
Status	<In Progress>		
Rationale	Improving situational awareness after manual changes.		
Category	<Functional>		
Validation Method			
Verification Method	<Test>		

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[REQ Trace]			
Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0002.0018	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	06.06.02	N/A

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[REQ]			
Identifier	REQ-06.06.02-TS-PRES.0033		
Requirement	The DIMT presentation of the de-icing plan shall show the current status for the purpose of verification by the coordinator and adjustment (if necessary) by means of the modification capabilities on the HMI.		
Title	Verification of the current de-icing plan		
Status	<In Progress>		
Rationale	The shown de-icing plan should be up to date		
Category	<Functional>		
Validation Method			
Verification Method	<Test>		

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[REQ Trace]			
Relationship	Linked Element Type	Identifier	Compliance

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<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0807.0001	<Full>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	06.06.02	N/A

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[REQ]

Identifier	REQ-06.06.02-TS-PRES.0034
Requirement	The DIMT HMI shall provide the functionality to make manual assignments of de-icing rigs for the on stand de-icing, after push de-icing as well as remote de-icing. This functionality shall be optionally switched on or off.
Title	Manual assignments of de-icing rigs
Status	<In Progress>
Rationale	Flexibility in planning
Category	<Functional>
Validation Method	
Verification Method	<Test>

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[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0809.0010	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	06.06.02	N/A

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[REQ]

Identifier	REQ-06.06.02-TS-PRES.0035
Requirement	The DIMT HMI shall display weather information other than de-icing weather category as a tool tip information on the Gantt chart view.
Title	Visualization of weather information
Status	<In Progress>
Rationale	Visualization of weather information
Category	<Functional>
Validation Method	
Verification Method	<Test>

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[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0810.0023	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

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[REQ]

Identifier	REQ-06.06.02-TS-PRES.0036
Requirement	The DIMT HMI shall graphically indicate the probability of the weather category forecast.
Title	Visualization of weather information
Status	<In Progress>
Rationale	Userfriendliness
Category	<Functional>
Validation Method	

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Verification Method	<Test>
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[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0810.0023	
<SATISFIES>	<Enabler>	AIRPORT-04	
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

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[REQ]

Identifier	REQ-06.06.02-TS-PRES.0037
Requirement	The DIMT HMI shall support drag and drop to move de-icing assignments between tracks (for remote de-icing) and de-icing rigs (for on stand de-icing and after push de-icing) in the Gantt chart view.
Title	Facilitated management of de-icing assignments
Status	<In Progress>
Rationale	Userfriendliness
Category	<Functional>
Validation Method	
Verification Method	<Test>

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[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0809.0010	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

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[REQ]

Identifier	REQ-06.06.02-TS-PRES.0038
Requirement	The DIMT HMI shall support drag and drop to make assignments of de-icing rigs to flight for remote de-icing.
Title	Assign rigs in remote de-icing
Status	<In Progress>
Rationale	Userfriendliness
Category	<Functional>
Validation Method	
Verification Method	<Test>

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[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0809.0010	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
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<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

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3.2 Adaptability

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Currently there are no applicable requirements.

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997 3.3 Performance Characteristics

998 [REQ]

Identifier	REQ-06.06.02-TS-PERF.0001
Requirement	The de-icing plan update shall follow a configurable periodicity.
Title	Update periodicity
Status	<In Progress>
Rationale	De-icing plan corresponding to airport activities
Category	<Performance>
Validation Method	
Verification Method	<Test>

999
1000 [REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0802.0001	<Partial>
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0801.0006	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

1001
1002 [REQ]

Identifier	REQ-06.06.02-TS-PERF.0002
Requirement	Modifications via the DIMT HMI shall take effect in less than 5 seconds.
Title	Adjustment of the de-icing plan
Status	<In Progress>
Rationale	Fast response improves the operability
Category	<Functional>
Validation Method	
Verification Method	<Test>

1003
1004 [REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0807.0002	<Full>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES_TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

1005 1006 1007 3.4 Safety & Security

1008 [REQ]

Identifier	REQ-06.06.02-TS-SASE.0001
Requirement	The DIMT shall be configured with user roles with different access levels. The user roles shall be <ul style="list-style-type: none"> - De-icing coordinator (access to DIMT HMI only) - De-icing administrator (access to DIMT detailed configuration and database) - System administrator (full access to DIMT server and underlying operating system)
Title	User roles
Status	<In Progress>
Rationale	DIMT functions shall only be accessed by users with the appropriate level.

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Category	<Security>
Validation Method	
Verification Method	<Test>

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[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0002.0011	<Full>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	06.06.02	N/A

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[REQ]

Identifier	REQ-06.06.02-TS-SASE.0002
Requirement	The DIMT shall restrict usage to authorized users.
Title	Authorized users
Status	<In Progress>
Rationale	Base function of the system
Category	<Security>
Validation Method	
Verification Method	<Test>

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[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0002.0012	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	06.06.02	N/A

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1016

[REQ]

Identifier	REQ-06.06.02-TS-SASE.0003
Requirement	The DIMT shall support multiple user accounts
Title	Multiple user accounts
Status	<In Progress>
Rationale	Base function of the system
Category	<Security>
Validation Method	
Verification Method	<Test>

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[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0002.0012	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED TO>	<Project>	06.06.02	N/A

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[REQ]

Identifier	REQ-06.06.02-TS-SASE.0004
Requirement	The DIMT shall enable each user of the DIMT to possess unique user details for authentication.
Title	Unique user details
Status	<In Progress>

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Rationale	Base function of the system
Category	<Security>
Validation Method	
Verification Method	<Test>

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[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0002.0012	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

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1024

[REQ]

Identifier	REQ-06.06.02-TS-SASE.0005
Requirement	The DIMT shall be configured with users where each user belongs to one or several user roles.
Title	User – user roles
Status	<In Progress>
Rationale	Base function of the system
Category	<Security>
Validation Method	
Verification Method	<Test>

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[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0002.0012	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Planning	N/A
<ALLOCATED_TO>	<Functional block>	Airport Resources and Facilities Tactical Management	N/A
<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

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[REQ]

Identifier	REQ-06.06.02-TS-SASE.0006
Requirement	The DIMT shall demand that each user identify themselves to the DIMT.
Title	User identification
Status	<In Progress>
Rationale	Base function of the system
Category	<Security>
Validation Method	
Verification Method	<Test>

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[REQ Trace]

Relationship	Linked Element Type	Identifier	Compliance
<SATISFIES>	<ATMS Requirement>	REQ-06.06.02-SPR-0002.0012	<Partial>
<SATISFIES>	<Enabler>	AIRPORT-04	<Partial>
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<APPLIES TO>	<Operational Focus Area>	OFA05.01.01	N/A
<ALLOCATED_TO>	<Project>	06.06.02	N/A

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3.5 Maintainability

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Currently there are no applicable requirements.

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1035 **3.6 Reliability**

1036 Currently there are no applicable requirements.

1037

1038 **3.7 Functional block Internal Data Requirements**

1039 Currently there are no applicable requirements.

1040

1041 **3.8 Design and Construction Constraints**

1042 Currently there are no applicable requirements.

1043

1044 **3.9 Functional block Interface Requirements**

1045 Currently there are no applicable requirements. The prototype will not publish information to the A-
1046 CDM platform or the system used by the de-icing operator in the de-icing rigs, but will solely subscribe
1047 on flight information from the AOP/CDM platform and on weather category information from the MET
1048 system in Finnish Meteorological Institute.

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1050 4 Assumptions

- 1051 1. It should be noted that there are dedicated sections of the document reserved for non-functional
1052 requirements, focused on Safety, Security and Performance Characteristics, However due to the
1053 nature of the development (prototype), the implementation of these requirements are not mandatory
1054 and will be under each industry consideration. These requirements can be considered as
1055 recommendations during the industrialization phase being the parameters indicating only a
1056 suggestion for implementation since the feasibility of each requirement need to be analysed.
- 1057 2. The operational documents, OSED, SPR and INTEROP do not contain requirements on the post
1058 operations analysis. Regarding the generation of reports for post operational analysis, it is assumed
1059 that it can be generated by a commercial off-the-shelf platform. The DIMT prototype will not include
1060 this functionality, and therefore, will not publish, send, store, etc. reports.

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1061 5 References

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- 1072 [5] Airport CDM Implementation Manual; Edition 4; April 2012
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1080 [OFA%202005.01.01%20Consolidated%20OSED%20edition%203%20document%20\(Part1\).doc](https://extranet.sesarju.eu/WP_06/Project_06.05.04/Project%20Plan/06.05.04-D16-OFA%202005.01.01%20Consolidated%20OSED%20edition%203%20document%20(Part1).doc)
1081 [x](https://extranet.sesarju.eu/WP_06/Project_06.05.04/Project%20Plan/06.05.04-D16-OFA%202005.01.01%20Consolidated%20OSED%20edition%203%20document%20(Part1).doc)
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1097 5.1 Use of copyright / patent material /classified material

1098 5.1.1 Classified Material

1099 N/A

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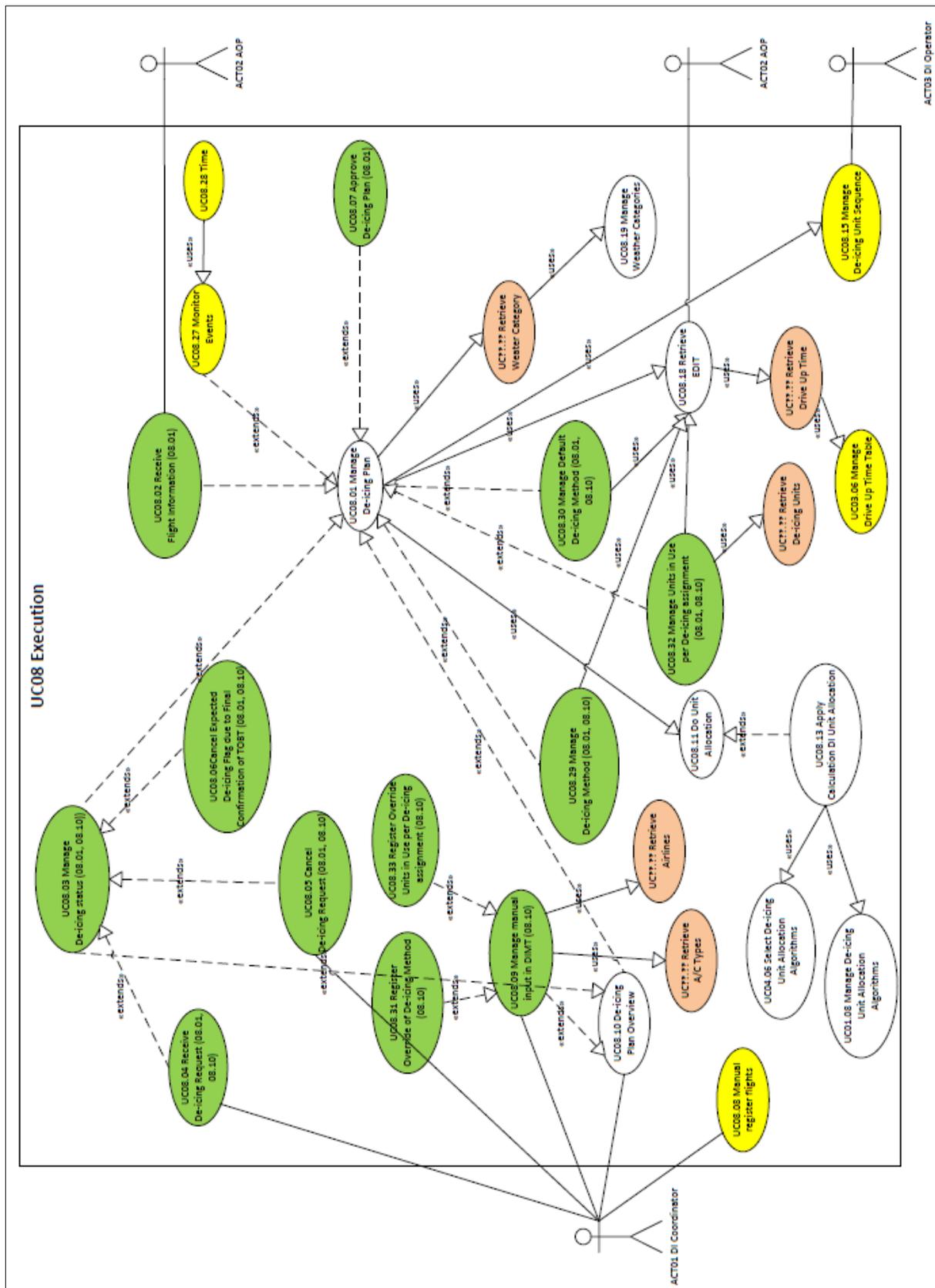
1101 **Appendix A Large version of Figure 10**

1102 DIMT function "Execution" use cases

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-END OF DOCUMENT-

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