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SUPPLEMENT TO THE CFMU HANDBOOK

CFMU HUMAN MACHINE INTERFACE (CHMI)
ASM FUNCTION REFERENCE GUIDE

CFMU HUMAN MACHINE INTERFACE
(CHMI)

ASM FUNCTION REFERENCE GUIDE

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<table>
<thead>
<tr>
<th>Section</th>
<th>Issue Date</th>
<th>Amended Section</th>
<th>Amended Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. INTRODUCTION</td>
<td>22-Sep-2008</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. FUA CFMU HUMAN MACHINE INTERFACE APPLICATION</td>
<td>22-Sep-2008</td>
<td>2. FUA CFMU HUMAN MACHINE INTERFACE APPLICATION</td>
<td>16-Apr-2010</td>
</tr>
<tr>
<td>3. NEW AUP WINDOW</td>
<td>22-Sep-2008</td>
<td>3. NEW AUP WINDOW</td>
<td>16-Apr-2010</td>
</tr>
<tr>
<td>4. SELECT AMC WINDOW</td>
<td>22-Sep-2008</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. SELECT AUP WINDOW</td>
<td>22-Sep-2008</td>
<td>5. SELECT AUP WINDOW</td>
<td>16-Apr-2010</td>
</tr>
<tr>
<td>6. AMCS SELECTION WINDOW</td>
<td>22-Sep-2008</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7. AUP WINDOW</td>
<td>22-Sep-2008</td>
<td>7. AUP WINDOW</td>
<td>16-Apr-2010</td>
</tr>
<tr>
<td>8. GOTO ROUTE STATEMENT WINDOW</td>
<td>22-Sep-2008</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9. SELECT AREA WINDOW</td>
<td>22-Sep-2008</td>
<td>9. SELECT AREA WINDOW</td>
<td>16-Apr-2010</td>
</tr>
<tr>
<td>10. EDIT AREA STATEMENT WINDOW</td>
<td>22-Sep-2008</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11. SELECT ROUTE WINDOW</td>
<td>22-Sep-2008</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12. SELECT CDR WINDOW</td>
<td>22-Sep-2008</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13. EDIT ROUTE STATEMENT WINDOW</td>
<td>22-Sep-2008</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14. NIL AUP CREATION WINDOW</td>
<td>22-Sep-2008</td>
<td>14. NIL AUP CREATION WINDOW</td>
<td>16-Apr-2010</td>
</tr>
<tr>
<td>15. COMPARE UUP WINDOW</td>
<td>22-Sep-2008</td>
<td>15. COMPARE UUP WINDOW</td>
<td>16-Apr-2010</td>
</tr>
<tr>
<td>16. SET NEXT UUP TIME WINDOW</td>
<td>22-Sep-2008</td>
<td>16. SET NEXT UUP TIME WINDOW</td>
<td>16-Apr-2010</td>
</tr>
<tr>
<td>17. PUBLISH UUPS WINDOW</td>
<td>22-Sep-2008</td>
<td>17. PUBLISH UUPS WINDOW</td>
<td>16-Apr-2010</td>
</tr>
<tr>
<td>18. IMPORT FILE WINDOW</td>
<td>22-Sep-2008</td>
<td></td>
<td></td>
</tr>
<tr>
<td>19. EXPORT DATA WINDOW</td>
<td>22-Sep-2008</td>
<td></td>
<td></td>
</tr>
<tr>
<td>20. AIRSPACE STATUS MONITOR WINDOW</td>
<td>22-Sep-2008</td>
<td>20. AIRSPACE STATUS MONITOR WINDOW</td>
<td>16-Apr-2010</td>
</tr>
<tr>
<td>21. FMPS SELECTION WINDOW</td>
<td>22-Sep-2008</td>
<td></td>
<td></td>
</tr>
<tr>
<td>22. REPETITIVE RSAS/CDRS WINDOW</td>
<td>22-Sep-2008</td>
<td></td>
<td></td>
</tr>
<tr>
<td>23. EDIT REPETITIVE AREA STATEMENT WINDOW</td>
<td>22-Sep-2008</td>
<td></td>
<td></td>
</tr>
<tr>
<td>24. EDIT REPETITIVE ROUTE STATEMENT WINDOW</td>
<td>22-Sep-2008</td>
<td></td>
<td></td>
</tr>
<tr>
<td>25. PRINT PREVIEW WINDOW</td>
<td>22-Sep-2008</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Section</td>
<td>Issue Date</td>
<td>Amended Section</td>
<td>Amended Date</td>
</tr>
<tr>
<td>--------------------------</td>
<td>--------------</td>
<td>----------------------------------</td>
<td>----------------</td>
</tr>
<tr>
<td>26. PRINT WINDOW</td>
<td>22-Sep-2008</td>
<td></td>
<td></td>
</tr>
<tr>
<td>27. MESSAGE WINDOWS</td>
<td>22-Sep-2008</td>
<td>27. MESSAGE WINDOWS</td>
<td>16-Apr-2010</td>
</tr>
</tbody>
</table>

**Amendment No. 2 to the CHMI ASM FUNCTION REFERENCE GUIDE**

The Main changes are indicated in **RED** with revision bars.
TABLE OF CONTENTS

1. INTRODUCTION .................................................................................................................... 1-1
1.1. Overview of CHMI FUA Function .................................................................................. 1-1
2. FUA CFMU HUMAN MACHINE INTERFACE APPLICATION ........................................... 2-1
   2.1. Introduction ................................................................................................................... 2-1
   2.2. Main Menu ................................................................................................................... 2-1
   2.2.1. Description ................................................................................................................ 2-1
   2.2.2. Menu Items ............................................................................................................... 2-1
   2.2.3. Menu Accessibilities ............................................................................................... 2-2
3. NEW AUP WINDOW .............................................................................................................. 3-1
   3.1. Function Presentation ................................................................................................... 3-1
   3.2. Opening the Window .................................................................................................... 3-1
   3.3. User Interactions .......................................................................................................... 3-2
   3.3.1. Preparing the Creation of a New AUP .................................................................... 3-2
   3.3.2. To Create a New AUP ............................................................................................. 3-3
   3.3.3. To Cancel the Creation of a New AUP .................................................................... 3-3
4. SELECT AMC WINDOW ....................................................................................................... 4-1
   4.1. Function Presentation ................................................................................................... 4-1
   4.2. Opening the Window .................................................................................................... 4-1
   4.3. User Interactions .......................................................................................................... 4-1
   4.3.1. To Select an AMC id ............................................................................................... 4-1
   4.3.2. To Cancel the Operation ........................................................................................ 4-1
5. SELECT AUP WINDOW ........................................................................................................ 5-1
   5.1. Function Presentation ................................................................................................... 5-1
   5.2. Opening the Window .................................................................................................... 5-1
   5.3. Preparing to Query ...................................................................................................... 5-2
   5.3.1. To Change the Period ............................................................................................. 5-2
   5.3.2. To Change the AMC Selection ............................................................................... 5-2
   5.4. Displaying the Query Results ...................................................................................... 5-3
   5.5. User Interactions .......................................................................................................... 5-4
6. AMCS SELECTION WINDOW ............................................................................................. 6-1
   6.1. Function Presentation ................................................................................................... 6-1
   6.2. Opening the Window .................................................................................................... 6-1
   6.3. User Interactions .......................................................................................................... 6-2
7. AUP WINDOW ..................................................................................................................... 7-1

7.1. Function Presentation..................................................................................................... 7-1
7.2. Opening the Window ..................................................................................................... 7-1
7.2.1. From the Select AUP Window .................................................................................. 7-1
7.2.1.1. In the Editing Mode............................................................................................. 7-1
7.2.1.2. In the Read Only Mode ..................................................................................... 7-1
7.2.1.3. To Create a New UUP ....................................................................................... 7-1
7.2.1.4. From the New AUP Window .............................................................................. 7-2
7.3. Window Overview ......................................................................................................... 7-2
7.4. User Interactions ........................................................................................................... 7-3
7.4.1. Header ....................................................................................................................... 7-3
7.4.2. "RSAs" Tab ................................................................................................................. 7-3
7.4.2.1. RSA Availability List .......................................................................................... 7-4
7.4.2.1.1. List Definition .................................................................................................. 7-4
7.4.2.1.2. Selection .......................................................................................................... 7-5
7.4.2.1.3. Deselection ..................................................................................................... 7-6
7.4.2.1.4. Filtering ............................................................................................................ 7-6
7.4.2.1.5. Sort .................................................................................................................. 7-6
7.4.2.1.6. "Allocate" Button ............................................................................................ 7-7
7.4.2.1.7. "Expand" Button ............................................................................................. 7-7
7.4.2.1.8. "Expand All" Button ...................................................................................... 7-8
7.4.2.1.9. "Confirm All" Button ..................................................................................... 7-8
7.4.2.2. RSA Allocation List ............................................................................................ 7-8
7.4.2.2.1. List Definition .................................................................................................. 7-8
7.4.2.2.2. Selection .......................................................................................................... 7-10
7.4.2.2.3. Deselection ..................................................................................................... 7-10
7.4.2.2.4. Filtering ............................................................................................................ 7-11
7.4.2.2.5. RSA “Add to Repetitive” Button ................................................................... 7-11
7.4.2.2.6. Area Editing Buttons ....................................................................................... 7-11
7.4.2.2.7. “Expand” Button ............................................................................................. 7-12
7.4.2.2.8. Sort .................................................................................................................. 7-13
7.4.2.3. CDR Expansion List ............................................................................................ 7-13
7.4.2.3.1. List Definition .................................................................................................. 7-13
7.4.2.3.2. Selection .......................................................................................................... 7-15
7.4.2.3.3. Deselection ..................................................................................................... 7-15
7.4.2.3.4. Filtering ............................................................................................................ 7-15
7.4.2.3.5. Route Editing Buttons ..................................................................................... 7-16
7.4.2.3.5.1. General ........................................................................................................ 7-16
7.4.2.3.5.2. Edit ............................................................................................................... 7-16
7.4.2.3.5.3. Delete ............................................................................................................ 7-16
7.4.2.3.6. Confirm Visible ............................................................................................... 7-16
7.4.2.3.7. Sort .................................................................................................................. 7-17
7.4.2.3.8. "EXCL" Checkbox ......................................................................................... 7-17
7.4.2.3.9. "Confirmed" Checkbox ..................................................................................... 7-18
7.4.3. "Manual CDRs" Tab .......................................................................................................................... 7-19
7.4.3.1. Manual CDR List Definition ........................................................................................................ 7-19
7.4.3.2. Route Selection .............................................................................................................................. 7-19
7.4.3.3. Route Deselection .......................................................................................................................... 7-19
7.4.3.4. CDR Filtering ................................................................................................................................. 7-19
7.4.3.5. CDR "Add to Repetitive" Button .................................................................................................... 7-20
7.4.3.6. Route Editing Buttons .................................................................................................................... 7-20
7.4.3.7. Sort .................................................................................................................................................. 7-21
7.4.3.8. "EXCL" Checkbox .......................................................................................................................... 7-21
7.4.3.9. "Confirmed" Checkbox ................................................................................................................... 7-21
7.4.3.10. "Overview" Tab ............................................................................................................................ 7-22
7.4.4. RSA Allocation Overview List ......................................................................................................... 7-22
7.4.4.1. List Definition .................................................................................................................................. 7-22
7.4.4.1.1. Selection ....................................................................................................................................... 7-22
7.4.4.1.2. Deselection ................................................................................................................................... 7-23
7.4.4.1.3. Filtering ........................................................................................................................................ 7-23
7.4.4.1.4. Sort ................................................................................................................................................ 7-23
7.4.4.1.5. "Goto" Button ................................................................................................................................ 7-23
7.4.4.1.6. Merged CDR List ........................................................................................................................ 7-23
7.4.4.2.1. List Definition ................................................................................................................................ 7-23
7.4.4.2.2. Selection ....................................................................................................................................... 7-25
7.4.4.2.3. Deselection ................................................................................................................................... 7-25
7.4.4.2.4. Filtering ........................................................................................................................................ 7-25
7.4.4.2.5. Sort ................................................................................................................................................ 7-25
7.4.4.2.6. "EXCL" Checkbox ........................................................................................................................ 7-25
7.4.4.2.7. "Confirmed" Checkbox ................................................................................................................ 7-25
7.4.4.2.8. "Refresh" Button ......................................................................................................................... 7-25
7.4.4.2.9. "Goto" Button ............................................................................................................................. 7-26
7.4.5. "Note" Tab .......................................................................................................................................... 7-27
7.4.6. Actions .............................................................................................................................................. 7-27
7.4.6.1. Possible Actions ............................................................................................................................... 7-27
7.4.6.2. Promote Action ............................................................................................................................... 7-28
7.4.6.3. Demote Action ............................................................................................................................... 7-29
7.4.6.4. Validate for DRAFT / Validate for READY Action ........................................................................ 7-29
7.4.6.5. Save Action ..................................................................................................................................... 7-30
7.4.6.6. Delete Action ................................................................................................................................... 7-30
7.4.6.7. Cleanup Action ............................................................................................................................. 7-30
7.4.6.8. Refresh Action ............................................................................................................................... 7-31
7.4.6.9. Import Action ................................................................................................................................. 7-31
7.4.6.10. Export Action ............................................................................................................................... 7-31
7.4.6.11. Export As FMP Action .................................................................................................................. 7-31
7.4.6.12. Print Preview Action .................................................................................................................... 7-31
7.4.6.13. Print Action .................................................................................................................................... 7-31
7.4.6.14. Compare with Predecessor Action .............................................................................................. 7-32
7.4.6.15. Plot Action ..................................................................................................................................... 7-32
7.4.7. To Close the Window ................................................................. 7-32

8. GOTO ROUTE STATEMENT WINDOW ........................................... 8-1
  8.1. Function Presentation .............................................................. 8-1
  8.2. Opening the Window .............................................................. 8-1
  8.3. User Interactions ................................................................. 8-2
  8.3.1. Selection ........................................................................ 8-2
  8.3.2. Deselection ................................................................. 8-2
  8.3.3. Sort ........................................................................... 8-2
  8.3.4. “Goto” Button .............................................................. 8-2
  8.3.5. “Cancel” Button .......................................................... 8-3

9. SELECT AREA WINDOW .......................................................... 9-1
  9.1. Function Presentation ............................................................ 9-1
  9.2. Opening the Window ........................................................... 9-1
  9.3. User Interaction ................................................................. 9-2
  9.3.1. To Select an Area ........................................................... 9-2
  9.3.2. Filtering ...................................................................... 9-2
  9.3.3. To Update the Area Data held Locally ............................... 9-2
  9.3.4. To Close the Window .................................................... 9-2

10. EDIT AREA STATEMENT WINDOW .......................................... 10-1
  10.1. Function Presentation .......................................................... 10-1
  10.2. Opening the Window .......................................................... 10-1
  10.3. User Interactions ............................................................... 10-2
  10.3.1. Area Statement Fields .................................................. 10-2
  10.3.2. To Commit the Changes ............................................... 10-2
  10.3.3. To Cancel the Edit ....................................................... 10-3

11. SELECT ROUTE WINDOW ...................................................... 11-1
  11.1. Function Presentation ........................................................ 11-1
  11.2. Opening the Window ........................................................ 11-1
  11.3. User Interaction ............................................................... 11-2
  11.3.1. To Update the Route Data held Locally ......................... 11-2
  11.3.2. To Close the Window ................................................... 11-2

12. SELECT CDR WINDOW .......................................................... 12-1
  12.1. Function Presentation ........................................................ 12-1
  12.2. Opening the Window ........................................................ 12-1
  12.3. User Interaction ............................................................... 12-2
  12.3.1. To Select/de-select a Conditional Route ....................... 12-2
  12.3.2. To Show all Segments ................................................. 12-2
  12.3.3. To Insert Selected Conditional Route to the AUP .......... 12-2
  12.3.4. To Close the Window .................................................. 12-2
## 13. EDIT ROUTE STATEMENT WINDOW

13.1. Function Presentation ................................................................. 13-1
13.2. Opening the Window ................................................................. 13-1
13.3. User Interactions ................................................................. 13-1
13.3.1. Route Statement Fields ......................................................... 13-2
13.3.2. To Commit the Changes ........................................................ 13-3
13.3.3. To Cancel the Edit ............................................................... 13-3

## 14. NIL AUP CREATION WINDOW

14.1. Function Presentation ................................................................. 14-1
14.2. Opening the Window ................................................................. 14-1
14.3. User Interactions ................................................................. 14-1

## 15. COMPARE UUP WINDOW

15.1. Function Presentation ................................................................. 15-1
15.2. Opening the Window ................................................................. 15-1
15.3. User Interactions ................................................................. 15-1

## 16. SET NEXT UUP TIME WINDOW

16.1. Function Presentation ................................................................. 16-1
16.2. Opening the Window ................................................................. 16-1
16.2.1. User Interactions ................................................................. 16-1

## 17. PUBLISH UUPS WINDOW

17.1. Function Presentation ................................................................. 17-1
17.2. Opening the Window ................................................................. 17-1
17.3. User Interactions ................................................................. 17-1

## 18. IMPORT FILE WINDOW

18.1. Function Presentation ................................................................. 18-1
18.2. Opening the Window ................................................................. 18-1
18.3. User Interactions ................................................................. 18-1
18.3.1. To Import a File ................................................................. 18-1
18.3.2. To Cancel the Import Action ................................................ 18-2
18.4. Import File Processing .............................................................. 18-2
18.4.1. The INDEX Section ........................................................... 18-2
18.4.2. The AREAS Section ........................................................... 18-2
18.4.3. The ROUTES Section ........................................................ 18-3

## 19. EXPORT DATA WINDOW

19.1. Function Presentation ................................................................. 19-1
19.2. Opening the Window ................................................................. 19-1
19.3. User Interactions ................................................................. 19-1
19.3.1. To Export an AUP ............................................................... 19-1
19.3.2. To Cancel the Export Action ................................................ 19-2

## 20. AIRSPACE STATUS MONITOR WINDOW
EUROCONTROL
CFMU

CFMU HUMAN MACHINE INTERFACE (CHMI)
ASM FUNCTION REFERENCE GUIDE

20.1. Function Presentation ................................................................. 20-1
20.2. Opening the Window ................................................................. 20-1
20.3. Preparing to Query ................................................................. 20-3
20.3.1. To Change the Period .......................................................... 20-3
20.3.2. To Change the AMC / FMP Selection ................................. 20-3
20.4. Displaying the Query Results .................................................. 20-5
20.4.1. General ............................................................................. 20-5
20.4.2. RSA Allocation Lines ......................................................... 20-7
20.5. User Interactions .................................................................... 20-8
20.6. Contextual Actions .................................................................. 20-11
20.6.1. AMC / FMP Sub Menu ....................................................... 20-11
20.6.2. RSA Allocation Sub Menu ................................................. 20-11

21. FMPS SELECTION WINDOW .................................................. 21-1
21.1. Function Presentation ............................................................... 21-1
21.2. Opening the Window ............................................................... 21-1
21.3. User Interactions ..................................................................... 21-2

22. REPETITIVE RSAS/CDRS WINDOW ........................................ 22-1
22.1. Function Presentation ............................................................... 22-1
22.2. Opening the Window ............................................................... 22-1
22.2.1. From the Main Menu ......................................................... 22-1
22.2.2. From the AUP Window ....................................................... 22-1
22.3. Window Overview ................................................................... 22-1
22.4. User Interactions ..................................................................... 22-2
22.4.1. “RSAs” Tab ....................................................................... 22-2
22.4.2. Repetitive RSA List Definition .......................................... 22-2
22.4.2.1. Area Selection ............................................................... 22-3
22.4.2.2. RSA Filtering ............................................................... 22-3
22.4.2.3. Repetitive Area Editing Buttons ................................... 22-3
22.4.2.4. Sort ............................................................................. 22-4
22.4.3. “CDRs” Tab ....................................................................... 22-5
22.4.3.1. Repetitive CDR List Definition ....................................... 22-5
22.4.3.2. Route Selection .............................................................. 22-6
22.4.3.3. CDR Filtering ............................................................... 22-7
22.4.3.4. Repetitive Route Editing Buttons .................................. 22-7
22.4.3.5. Sort ............................................................................. 22-8
22.4.4. Actions............................................................................... 22-8
22.4.4.1. Save Action ................................................................. 22-9
22.4.4.2. Print Preview Action ..................................................... 22-9
22.4.4.3. Print Action .................................................................. 22-9
22.4.5. To Close the Window .......................................................... 22-9
23. EDIT REPETITIVE AREA STATEMENT WINDOW ......................................................... 23-1
   23.1. Function Presentation ...................................................................................... 23-1
   23.2. Opening the Window ..................................................................................... 23-1
   23.3. User Interactions .......................................................................................... 23-2
   23.3.1. Repetitive Area Statement Fields ........................................................... 23-2
   23.3.2. To Commit the Changes ............................................................................ 23-3
   23.3.3. To Cancel the Edit ..................................................................................... 23-4

24. EDIT REPETITIVE ROUTE STATEMENT WINDOW .................................................. 24-1
   24.1. Function Presentation ...................................................................................... 24-1
   24.2. Opening the Window ..................................................................................... 24-1
   24.3. User Interactions .......................................................................................... 24-2
   24.3.1. Repetitive Route Statement Fields ........................................................... 24-2
   24.3.2. To Commit the Changes ............................................................................ 24-4
   24.3.3. To Cancel the Edit ..................................................................................... 24-4

25. PRINT PREVIEW WINDOW ................................................................................... 25-1
   25.1. Function Presentation ...................................................................................... 25-1
   25.2. Opening the Window ..................................................................................... 25-2
   25.2.1. From the AUP Window ............................................................................. 25-2
   25.2.2. From the Repetitive RSAs/CDRs Window ................................................. 25-2
   25.3. User Interaction ............................................................................................ 25-3
   25.3.1. View by ..................................................................................................... 25-3
   25.3.2. View Parts ................................................................................................ 25-3
   25.3.3. To Print to the Default Printer ................................................................. 25-3
   25.3.4. To Close the Window ................................................................................. 25-3

26. PRINT WINDOW ..................................................................................................... 26-1
   26.1. Function Presentation ...................................................................................... 26-1
   26.2. Opening the Window ..................................................................................... 26-2
   26.2.1. From the AUP Window ............................................................................. 26-2
   26.2.2. From the Repetitive RSAs/CDRs Window ................................................. 26-2
   26.2.3. From the Print Preview Window ............................................................... 26-2
   26.3. User Interaction ............................................................................................ 26-3
   26.3.1. To Change Printer Attributes .................................................................. 26-3
   26.3.2. Print by ..................................................................................................... 26-3
   26.3.3. Print Parts ................................................................................................ 26-3
   26.3.4. To Print .................................................................................................... 26-3
   26.3.5. To Close the Window ................................................................................. 26-3

27. MESSAGE WINDOWS .............................................................................................. 27-1
   27.1. Function Presentation ...................................................................................... 27-1
   27.2. Opening the Window ..................................................................................... 27-1
   27.3. User Interactions .......................................................................................... 27-2
TABLE OF FIGURES

Figure 2-1  Main Menu ......................................................................................................................2-1
Figure 3-1  New AUP Window ...........................................................................................................3-1
Figure 4-1  Select AMC Window ........................................................................................................4-1
Figure 5-1  Query Select AUP Window ...............................................................................................5-1
Figure 5-2  Select AUP Window ..........................................................................................................5-3
Figure 6-1  AMCs Selection Window ..................................................................................................6-1
Figure 7-1  “RSAs” Tab of the AUP Window .....................................................................................7-3
Figure 7-2  “Manual CDRs” Tab of the AUP Window ........................................................................7-19
Figure 7-3  “Overview” Tab of the AUP Window ...............................................................................7-22
Figure 7-4  “Note” Tab of the AUP Window ......................................................................................7-27
Figure 7-5  Possible Actions of the AUP Window .................................................................................7-27
Figure 8-1  Goto Route Statement Window ......................................................................................8-1
Figure 9-1  Select Area Window .........................................................................................................9-1
Figure 10-1  Edit Area Statement Window ..........................................................................................10-1
Figure 11-1  Select Route Window ....................................................................................................11-1
Figure 12-1  Select CDR Window .......................................................................................................12-1
Figure 13-1  Edit Route Statement Window .........................................................................................13-1
Figure 14-1  Nil AUP Creation Window .............................................................................................14-1
Figure 15-1  Compare UUP Window ..................................................................................................15-1
Figure 16-1  Set Next UUP Time Window .........................................................................................16-1
Figure 17-1  Publish UUPs Window .....................................................................................................17-1
Figure 18-1  Import File Window ........................................................................................................18-1
Figure 19-1  Export Data Window .......................................................................................................19-1
Figure 20-1  Query Airspace Status Monitor Window .....................................................................20-1
Figure 20-2  Airspace Status Monitor Window for Selected AMCs ..................................................20-5
Figure 20-3  Airspace Status Monitor Window for Selected FMPs ....................................................20-6
Figure 21-1  FMPs Selection Window ..................................................................................................21-1
Figure 22-1  “RSAs” Tab of the Repetitive RSAs/CDRs Window ............................................................. 22-2
Figure 22-2  “CDRs” Tab of the Repetitive RSAs/CDRs Window ............................................................. 22-5
Figure 23-1  Edit Repetitive Area Statement Window ........................................................................... 23-1
Figure 24-1  Edit Repetitive Route Statement Window ........................................................................... 24-1
Figure 25-1  Print Preview Window ........................................................................................................ 25-2
Figure 26-1  Print Window ....................................................................................................................... 26-2
Figure 27-1  Information Window ............................................................................................................ 27-1
Figure 27-2  Warning Window ................................................................................................................ 27-1
Figure 27-3  Error Window ....................................................................................................................... 27-1
Figure 27-4  Warning-Error List Window ................................................................................................. 27-1
1. INTRODUCTION

1.1. Overview of CHMI FUA Function

The CHMI FUA function providing AMCs, FMPs, CADF, NMC and TNC and with a Graphical User Interface to support the ASM Network Coordination and Assessment process.

The FUA functionalities of the CHMI allow clients to:

a) Create, maintain, validate and promote detailed AUP content based on validated and filtered ENV data.

b) List existing AUPs for a given period and selected AMC identifiers and allow browsing detail content of one AUP.

c) Facilitate sharing of AUP through Import/Export and Web services detailed AUP allowing data exchange with other systems.

d) Create and maintain repetitive AUP data based on validated and filtered ENV data.

e) Display RSA allocation summary for a given period and selected AMC identifiers.

f) Plot RSA allocation summary on the map.

g) Display environment data related to Airspace and Route definitions.

h) Monitor the traffic against AUP decisions.

i) Allow overview of AUP preparation and consolidation phase

j) Allow publication of ASM decisions through EAUP in NOP portal and eAMI AIXM web Service.
2. FUA CFMU HUMAN MACHINE INTERFACE APPLICATION

2.1. Introduction

This section of the document contains:

a) The list of functionalities available in the FUA CFMU Human Machine Interface application part with direct link to the detailed description.

b) The description of functionalities common to several FUA CFMU Human Machine Interface application functions.

All functionalities for AUP are also available for UUP (=Updated AUP) except if explicitly mentioned otherwise.

2.2. Main Menu

2.2.1. Description

From the CFMU Interface Application / FUA main menu, you can select the function you want to execute.

Functions are only displayed in the menu if your profile is authorising its usage. It is only when a function has been selected that the corresponding dedicated window appears.

2.2.2. Menu Items

New AUP: allows the user to create a new AUP – see Section 3.

Open AUP/UUP: allows the user to select an existing AUP/UUP for editing or viewing – see Sections 5. and 7.
ASM Monitor: provides a graphical view of RSA allocations for a user selectable list of AMCs or FMPs over a query period – see Section 20.

Open Repetitive: allows to define, edit or delete repetitive requests for manageable areas and/or conditional routes – see Section 22.

Set Next UUP Time: Allows to set the start validity time for the next UUP. (see Section 22).

Publish UUPs: allows to publish UUPs. (see Section 17).

2.2.3. Menu Accessibilities

<table>
<thead>
<tr>
<th></th>
<th>AMC User</th>
<th>CADF User</th>
<th>Other Users</th>
</tr>
</thead>
<tbody>
<tr>
<td>New AUP</td>
<td>Yes (but only allowed to create for his/her own AMC)</td>
<td>Yes but the user is requested to select an AMC_id that he/she wishes to act on behalf of.</td>
<td>No</td>
</tr>
<tr>
<td>Open AUP</td>
<td>Yes, read-write access to own AUP in INTENT and DRAFT status, read-only to other AUPs</td>
<td>Yes, read-write access to AUPs in INTENT and DRAFT status but user requested to confirm the intension, CADF must have access to “Demote” an AUP in READY status, read-only to other AUPs</td>
<td>Yes but read-only access</td>
</tr>
<tr>
<td>ASM Monitor</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Open Repetitive</td>
<td>Yes (but only allowed to access repetitive data for his/her own AMC)</td>
<td>Yes but the user is requested to select an AMC_id that he/she wishes to act on behalf of.</td>
<td>No</td>
</tr>
<tr>
<td>Set Next UUP Time</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Publish UUPs</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>
3. **NEW AUP WINDOW**

### 3.1. Function Presentation

This window is used to create a new AUP for a given period.

The new AUP can be initialised from the repetitive RSA/CDR database, left empty or completed as a NIL AUP.

Unless an AUP is created as a NIL AUP, its initial status is set to INTENT, otherwise its status is set to READY.

When a new AUP is created, the New AUP window is automatically closed and replaced by the AUP window containing the newly created AUP.

### 3.2. Opening the Window

From the Application / FUA menu, select the option New AUP.

For a CADF user, the Select AMC window is opened (see section 4). After identifying the AMC that the CADF wishes to act on behalf of, the Select AMC window is closed.

![New AUP Window](image)

**Figure 3-1** New AUP Window

The New AUP window is opened with the following defaults:

- **a)** AMC Id: displays the AMC identification of the user (for a CADF user, it displays the AMC identification that the CADF wishes to act on behalf of).

- **b)** From date (WEF) is set to TOMORROW (i.e. 1 day later than the current day of operations).

- **c)** From time (WEF) is greyed-out and set to CHMI / FUA application / General / Query / Default AUP From and Until time.
**Note:** CHMI / FUA application / General / Query / Default AUP From and Until time are hidden system properties parameter currently set to 06:00.

a) Until date (TIL) is greyed-out and set to TOMORROW + 1 (i.e. 2 days later than the current day of operations).

b) Until time (TIL) is greyed-out and set to CHMI / FUA application / General / Query / Default AUP From and Until time.

c) **Initialisation Method** is set to “Extract from repetitive requests”.

The **New AUP** window is a modal dialogue box, it means that whilst this window is open no other functions can be invoked.

### 3.3. User Interactions

#### 3.3.1. Preparing the Creation of a New AUP

Adjust the From date (WEF) to the required date. The From date (WEF) cannot be set to be before TOMORROW (i.e. 1 day later than the current day of operations).

The From Time is not accessible by the user. It displays CHMI / FUA application / General / Query / Default AUP From and Until time.

The Until date (TIL) is not accessible by the user. However, as the From date (WEF) is adjusted by the user, the Until date (TIL) is automatically changed to be From date (WEF) + 1.

The Until time (WEF) is not accessible by the user. It displays CHMI / FUA application / General / Query / Default AUP From and Until time.

Select the **Initialisation Method** of the AUP. This can be set to one of the following:

a) “Extract from repetitive requests”: The initial list of RSAs and CDRs for the entered date are extracted from the repetitive request data.

b) “Empty”: An empty AUP (not containing any RSAs or any CDRs) is created for subsequent edition.

c) “NIL AUP – Ready for publication”: An empty AUP (not containing any RSAs or any CDRs) is created. **After limited subsequent edition it will move** directly in the READY status.
3.3.2. To Create a New AUP

Once all the necessary inputs have been made into the New AUP window, click Create button.

If the Initialisation Method had been set to “NIL AUP – Ready for publication”, the New AUP window is automatically closed and replaced by the Create NIL AUP window. (see Section 14).

If the creation of the AUP is successful, the New AUP window is automatically closed and replaced by the AUP window. (see Section 7).

If the creation of the AUP is unsuccessful for any reason, an Error window explaining the reason of failure to create the AUP will be displayed.

3.3.3. To Cancel the Creation of a New AUP

Click on Cancel button at any time. The New AUP window is closed and all the inputs previously made into that window are discarded.
4. SELECT AMC WINDOW

4.1. Function Presentation

This window allows a CADF user to select an AMC identification that he/she wishes to act on behalf of.

4.2. Opening the Window

From the Application / FUA menu, select the option New AUP. If the user is logged in as a CADF user, since a CADF user is not permitted to create an AUP directly, he/she is requested to identify an AMC id that he/she would like to act on behalf of.

**Note:** As a precaution, each time a CADF user invokes the New AUP window, he/she is always presented with the Select AMC window. The AMC id used in the last call of the window is not kept by the system to avoid accidental creation of AUP by the CADF user.

![Select AMC Window](image)

**Figure 4-1 Select AMC Window**

The top half of the Select AMC window presents a warning message to the CADF user that he/she should only continue with the operation under exceptional circumstances. By default, the AMC Id is set to blank and the “Ok” button is greyed-out.

The Select AMC window is a modal dialogue box, it means that whilst this window is open no other functions can be invoked.

The “Select AMC ID” drop down control proposes the list of AMC IDs that the CADF may impersonate.

4.3. User Interactions

4.3.1. To Select an AMC id

Select an AMC identification (other than blank) from the AMC Id pulldown menu. The “Ok” button is enabled.

Click on “Ok” button. The Select AMC window is closed and the New AUP window is opened.

4.3.2. To Cancel the Operation

Click on Cancel button at any time. The Select AMC window is closed and the New AUP operation is cancelled.
5. SELECT AUP WINDOW

5.1. Function Presentation
This window allows the user to select an AUP for subsequent editing or viewing.

5.2. Opening the Window

From the Application / FUA menu, select the option Open AUP / UUP.

By default, the From (WEF) and Until (TIL) dates are set to TOMORROW and TOMORROW+1 respectively (i.e. 1 and 2 days later respectively than the current day of operations).

The time from system property “CHMI / FUA application / General / Query / Default AUP From and Until time” (i.e. 06:00) is appended to each date to facilitate user understanding.

For AMC users:
   a) The “AMC selection” box allows the user to choose one from 3 possible AMC selections: <own AMC Id>, “All AMCs” or “Selected AMCs” where <own AMC Id> is displayed as the actual AMC identification of the user e.g. “EHCMZAMC”.
   b) By default, the <own AMC Id> is selected.

For non-AMC users:
   a) The “AMC selection” box allows the user to choose between 2 possible AMC selections: “All AMCs” and “Selected AMCs”.
   b) By default, “Selected AMCs” is selected.
   c) The “Selected AMC(s)” list is filled in with the last updated list maintained using the AMCs Selection window – see Section 6.
   d) AMCs are checked in the “Selected AMC(s)” list based on the last query issued that used AMC selection.
When no AMCs have been selected yet using the **AMCs Selection** window (this is the case after application installation):

a) A message box will warn you and invite you to select first one or more AMCs.

b) On clicking OK, the **AMCs Selection** window, see Section 6. is opened automatically.

c) After adding one or more AMCs to the "Selected list" of the **AMCs Selection** window, click on the OK button.

d) This will close the **AMCs Selection** window and update the "Selected list" on the calling window.

On initial **Select AUP** window query preparation, the focus is set on the **From** date.

After this, it is moved logically between the query controls in position sequence (left to right and then top to bottom).

The **Select AUP** window is a modeless dialogue box. It means that multiple instances of the window can exist. Also, whilst this window is open other functions can be invoked.

### 5.3. Preparing to Query

#### 5.3.1. To Change the Period

By changing the From (**WEF**) and Until (**TIL**) dates, the user can request for the AUPs whose From date (**WEF**) lies between this period.

#### 5.3.2. To Change the AMC Selection

To change the AMC selection, click on any one of the possible options in the “AMC Selection” box.

The “Selected AMC(s)” list is only shown when the AMC selection is set to “Selected AMCs”. In all other cases, the “Selected AMC(s)” list is hidden.

When the AMC selection is set to “Selected AMC(s)”: 

a) Click on “All” button to check all AMCs present in the AMC list.

b) Click on “None” button to uncheck all the AMCs present in the AMC list.

c) Click on “Select” button to add/remove AMC(s) to/from the AMC list – this invokes the **AMCs Selection** window – see Section 6.

d) Click on the AMC list title to toggle the sort order between ascending and descending – this does not change the AMC list content nor the checked/unchecked state of any of the AMCs.

e) check/uncheck an AMC Id in the AMC list to include/exclude the AMC in/out of the query as desired.

The **Send** button will send the query to the system.

The **Reset** action common functionality is implemented for this function.
Change of any of the following query data elements are considered for activating the **Reset** action:

- **a)** From date (**WEF**).
- **b)** Until date (**TIL**).
- **c)** Option in the “AMC selection” box.
- **d)** Checked state of an AMC Id in the AMC list.

### 5.4. Displaying the Query Results

The title contains the **time stamp** when the information was retrieved from the CFMU system.

The left part of the window contains the different query data elements used to retrieve the displayed AUP list:

- **a)** The period From (**WEF**) and Until (**TIL**) dates and times.
- **b)** Indication of the AMC selection, *own AMC Id* when applicable, “All AMCs” or “Selected AMCs”.
- **c)** If the AMC selection was set to “Selected AMCs”, the AMC list is displayed with the checked indication for each AMC included in the query.

At the bottom of the left part of the window, following tabs are available:

- **a)** The **Query** tab groups all the query data elements described earlier.
- **b)** The **Filter** tab displays a list AUP status.
  
  (1) A check box next to each AUP status allows filtering out AUPs of the corresponding status in the list.
  
  (2) All check boxes are initially checked.
c) The AMC tab displays the list of queried AMCs. A check box next to each AMC allows to filter AUPs from the corresponding AMC in the list. When an AMC is unchecked, all AUPs from the corresponding AMC are hidden in the list. At the top of the AUP list, a counter indicates the number of AUPs retrieved.

The number of AUPs counter may be affected by the AUP filtering checkboxes (fff / rrr AUPs where fff is the filtered number and rrr is the retrieved number) accessed via the Filter tab.

For each AUP, the AUP list displays:

a) **AMC Id**: This displays the AMC identification of the AUP creator (only displayed if the AMC selection is either “All AMCs” or “Selected AMCs”).

b) **Valid WEF**: The start date and time of the AUP validity period.

c) **Valid TIL**: The end date and time of the AUP validity period.

d) **Status**: AUP status (“INTENT”, “DRAFT”, “READY” or “RELEASED”).

e) **Remark**: Any additional AUP remarks.

f) **Last update**: The date and time when the AUP was last saved/updated.

By default, the AUP list is sorted by AMC Id (if applicable), then by Valid From.

By default, no AUP in the list is set to be selected.

By default, the “Edit” and the “View” button are greyed-out (i.e. not accessible).

### 5.5. User Interactions

Just click on one of the tabs (Query / Filter / AMC) at the bottom of the left part to display its content.

Using the Query tab, this window allows to modify a previous query selection and to issue a new request.

On query modification, the Reset action is enabled.

To display / hide the query part, click respectively the Right / Left arrow at the top next to the split bar.

On the Filter tab, check or uncheck the different status boxes to display or not AUPs of the corresponding status in the list. Dev Note: this entails showing 4 check boxes for AUP statii: INTENT, DRAFT, READY and RELEASED and 2 check boxes for AUP and UUP.

When one or more AUP statii are unchecked:

a) The keyword Filter is displayed in red at the top of the list, and

b) The Filter tab text is displayed in red.

On the AMC tab, check or uncheck the different AMC to display or not the AUPs from the AMC.
When one or more AMCs are unchecked on the AMC tab:

a) The keyword AMC is displayed in red at the top of the list, and

b) The AMC tab text is displayed in red.

To update the display, click on the Send button on the button bar or select the Action / Send menu option. This will issue exactly the same query to obtain an up to date list.

Filtering done on the Filter and the AMC tabs is kept over a data refresh.

To print the AUP list, first retrieve, sort and filter the data in the window. When ready, click on the Print button or select the File / Print menu option.

To display a sub-selection of the retrieved data, check/uncheck the AUP filtering checkboxes.

List sort criteria are then adjustable according to 0, 0 and 0 by the user.

Upon change of sort criteria, the scrolling is automatically adjusted. Developer Note: propose default coherent processing.

Increasing / reducing the window height will impact the size of the AMC list and the AUP list controls.

Increasing / reducing the window width will impact the size of the AUP list.

To select an AUP from the AUP list, click on the desired AUP. The selected AUP is indicated by its background colour being set to the selected colour set of the desktop theme.

Only one AUP from the AUP list can be selected at any one time – selection of another AUP de-selects the previously selected AUP.

Upon selecting an AUP from the AUP list, the “View” button becomes accessible except when the selected AUP is in “INTENT” state and the user is neither the owning AMC nor CADF.

Clicking on the “View” button when accessible, opens the AUP window (see Section 7) in the read-only mode pre-filled with the selected AUP if such a window is not already open. If the AUP window is already open containing the selected AUP, that window is brought to the foreground.

For AMC users, upon selecting an AUP for which they are the creator and whose status is either “INTENT” or “DRAFT”, the “Edit” button becomes accessible.

For AMC users, when the “Edit” button is accessible, clicking on this button will open the AUP window (see Section 7) in the edit mode pre-filled with the selected AUP.

For CADF users, upon selecting an AUP whose status is either “INTENT”, “DRAFT” or “READY”, the “Edit” button becomes accessible.

For CADF user, when the “Edit” button is accessible, clicking on this button will request him/her to confirm (via a Confirmation window) that they have the necessary approval(s) to modify the AUP. Upon confirmation of approval, the AUP window is opened in the edit mode pre-filled with the selected AUP. (Dev Note: Similar to Select AMC dialog but with AMC ID forced to the one owning the edited AUP with the control disabled).
The CADF user (and no others) has access to the “Send to AME” button when:

a) The query period is only over 1 AUP period, and
b) The query is performed with “All AMCs” as the “AMC Selection” option, and
c) All AUPs are listed (i.e. no local filtering is applied), and
d) All listed AUPs are in the READY status.

To send the listed AUPs to the AME server (only available for CADF user), click the “Send to AME” button when available.

To close the Select AUP window, click on the close window icon.

The Select AUP window supports a contextual menu (accessed by clicking on the right mouse button) that contains the following 2 groups in order:

a) **Group 1:**

- **Edit:** Same behaviour as the “Edit” button in the Select AUP window.
- **View:** Same behaviour as the “View” button in the Select AUP window.
- **Create UUP:** Allows to create a UUP from a RELEASED AUP or UUP. 
  
  *(see para 7.2.1.3).*
- **Send To AME:** Same behaviour as the “Send to AME” button in the Select AUP window.
- **Compare with Predecessor:** Allows to compare a UUP with its predecessor AUP or UUP.
  
  *(see Section 15).*

b) **Group 2:**

- **Send:** Same behaviour as the Send button to submit a query to the system.
- **Reset:** Same behaviour as the Reset action common functionality.
- **Print:** Allows to print the Select AUP window.
- **Print Preview:** Allows to preview the print of the Select AUP window.

The two groups of the contextual menu are visually separated.
6. **AMCS SELECTION WINDOW**

6.1. **Function Presentation**

This display gives the list of available AMCs and allows maintaining a user-preferred list. This user preferred list will be proposed by default for the different queries when a **Selected list** of AMCs has to be presented. This user preferred list is stored in the preference file for later references.

6.2. **Opening the Window**

This modal dialog may be opened from the different functions where the query to the server system includes a list of AMCs. This is possible through either the **Select AUP** window or the **Airspace Status Monitor** window.

A click on the **Select** button in the **Selected AMC(s)** frame in one of the functions listed above, will open the **AMCs Selection** window.

![AMCs Selection Window](image)

Figure 6-1 **AMCs Selection Window**

On opening the dialog, the list of available AMC is retrieved from the server. The date to be used for the retrieval is the WEF date selected on the invoking window. It is displayed in the top left corner of the dialog. This **Available list** of AMCs is displayed on the left side of the dialog.

The AMC Selected list is stored in the user preference **CHMI / FUA application / General / Query / Selected AMC Identifiers**.

This AMC **Selected list**, if any, is displayed on the right side of the dialog. The focus sequence between the different controls starts from the Available list and the attached scroll bar, then it reaches the Selected AMC list and the attached scroll bar. Finally it goes on the different buttons: Right and Left arrows and then OK and Cancel.

There is no resizing allowed on this dialog.
6.3. User Interactions

This dialog allows adding and removing AMCs from the user selected list, based on the retrieved AMC available list.

AMCs stored previously in the selected list may no more exist in the newly retrieved available list. In such a case, a message box will prompt the user to ask if these erroneous AMC entries may be removed from the selected list because this might lead to unsuccessful queries.

Select one or more AMCs from the available list on the left side and click on the ">>" button to add them to the selected list.

Multiple selection is possible by combining the mouse click with the <Ctrl> or the <Shift> keys. Duplicates, if any, are automatically suppressed.

Select one or more AMCs from the selected list on the right side and click on the "<<" button to remove them from the current selected list.

A double click on an AMC in either list will immediately request the transfer action.

When the selected list is up to date, click on the OK button to save the list and come back to the previous window.

This will save the new preferred list in the user preference CHMI / FUA application / General / Query / Selected AMC Identifiers.

Following update rules will be applied on all opened windows using a selected AMC(s) list for the query:

a) If the opened window has not yet processed a valid query / reply, newly added AMCs are inserted and checked in the selected AMC(s) list. Deleted entries are removed from the selected AMC(s) list independently from the current check state.

b) If a valid query / reply has already been processed, newly added AMCs are inserted unchecked in the selected AMC(s) list. Deleted entries are removed from the selected AMC(s) list only if they were unchecked before opening the dialog.

c) All other existing AMCs remain in the selected AMC(s) list with the previous check state.

New windows opened after this list update will use the new user preferred selected list.

To stop editing and leave the AMC Selection without saving the modifications to the list, click on the Cancel button.

If the user clicks the close dialog button ("X" on top right) and the selected list was changed, a confirmation dialog will pop up asking if the modifications to the list shall be saved or ignored.
7. AUP WINDOW

7.1. Function Presentation

The AUP window is used to view or edit an already existing AUP/UUP.

7.2. Opening the Window

7.2.1. From the Select AUP Window

7.2.1.1. In the Editing Mode

From the Select AUP window, click “Edit”.

For a CADF user, the user is asked to confirm that he/she has the necessary approval to impersonate the AMC authority of the AUP creator.

On invoking the AUP Window, the RSA Availability list (see para 7.4.2.1) is (re-)loaded from the server.

**Warning:** On opening a previously created AUP, the last saved version of the AUP including RSA allocations and CDR updates are loaded. In case change of RSA availabilities since the last save of the AUP, an automatic re-expansion of CDRs is not performed to preserve any manual changes that might have been applied.

7.2.1.2. In the Read Only Mode

From the Select AUP window, click “View”.

7.2.1.3. To Create a New UUP

From the Select AUP window, select the AUP/UUP in status RELEASED that needs to be updated, click “Create UUP”.

The data of the selected AUP or UUP are loaded for the new UUP validity period. This means that only the RSA availabilities, RSA allocations and CDR updates that are inside the new UUP validity period are displayed. If a applicability period of a RSA availability, RSA allocation or CDR update crosses the UUP validity start time, the period will be cut off at the UUP start time.

**There is one exception:**

Allocations of RSA of category NAM applicable before the UUP start time are also loaded. The part of the allocation before the start time will not be editable (greyed out). This is needed because some of the CDR updates resulting from the expansion may be linked to this NAM RSA allocations in the past.

The user is asked to confirm that he/she is sure he/she wants to create a UUP.

If CADF did not yet define the next UUP start time, an error message pops up and the create UUP is aborted.
7.2.1.4. From the New AUP Window

Click on Create button of the New AUP window.

If creation of the AUP is successful, the New AUP window is automatically closed and the AUP window is automatically opened in the edit mode.

7.3. Window Overview

The AUP window is split into 2 parts – a header part and a tabular area.

The header part of the AUP window identifies the following:

a) The type, set to “AUP” or “UUP”.

b) The identification of the AMC owning the AUP being edited (in case of CADF user, it displays the AMC Id that the CADF is acting on behalf of).

c) The start date and time and the end date and time of the validity period of the AUP.

d) The AUP status (“INTENT”, “DRAFT” or “READY” “RELEASED”).

Remark: Displays optional remarks, if any, for this AUP.

e) The tabular area of the AUP window contains 4 tabs:

f) “RSAs”: This tabular view displays the following 3 lists:

“RSA Availability”: This list shows all the availabilities of the restricted areas (RSAs) as known by the ENV system for the validity period of the AUP.

“RSA Allocation”: For the selected RSA(s) in the RSA Availability list, this list shows all the allocated restricted areas (RSAs) for the AUP.

“CDR Expansion”: For the selected RSA(s) in the RSA Availability list, this list shows only the CDR expansions from the allocated RSAs and from expansion of the non allocated RSA availabilities.

a) Manual CDRs”: This tabular view lists all the CDR allocation requests that are not a direct result of the system expansion i.e. they are CDRs that have been manually entered and/or modified by the user.

b) “Overview”: This tabular view displays the following 2 lists:

RSA Allocation Overview: displays all the allocated RSAs for the AUP.

Merged CDR: displays a merged view of all the CDRs in the CDR Expansion list of the RSA tab and in the Manual CDRs tab.

Note: This tabular view displays an optional free text note.

For a UUP, in editing mode, a coloured border is drawn around the AUP window. The colour is configurable through CHMI Application Preferences:


The AUP window is a modeless dialogue box. It means that multiple instances of the window can exist for different AUPs but not for the same AUP. Also, whilst this window is open other functions can be invoked.
7.4. User Interactions

7.4.1. Header

If the AUP status is either INTENT or DRAFT, the Remark field of the AUP header is accessible for further edition (max 128 characters). Note, by default, on creation of a NIL AUP, the AUP status is set to READY and “NIL AUP” is automatically inserted in the remark field.

At creation time, it is possible to add additional information to the remark field after the "NIL AUP" text and to add information in the Note field.

7.4.2. “RSAs” Tab

By default, the horizontal split-tab handle is positioned such that there is equal vertical height for the RSA Availability list, RSA Allocation list and the CDR Expansion list.

The user can drag the horizontal split-tab handle vertically between predefined limits of the tab area so that more or less entries of one list over another can be viewed simultaneously.
7.4.2.1. RSA Availability List

7.4.2.1.1. List Definition

Each row of an RSA Availability list (excluding the header) represents an area availability statement within the validity period of the AUP/UUP.

An area availability statement can be for an AMC Manageable Area (AMA), Non AMC Manageable (NAM) or for a Reduced Coordination Area (RCA). Note: the AMA and NAM acronyms are used for AMC understanding. The old acronyms are TSA and RAR respectively which shall be maintained in ACA file format.

An area availability statement consists of 9 fields displayed in the following order:

a) “CAT”: The AUP category of the available area ("AMA", "NAM" or "RCA").

b) "Lvl1": check box for FUA level 1.

c) "Lvl2": check box for FUA level 2.

d) “RSA Id”: The area identification (max 12 alphanumeric).

e) “MNM FL”: The minimum flight level of the available area (3 digits or “GND”).

f) “MAX FL”: The maximum flight level of the available area (3 digits or “UNL”).

g) “WEF”: The start time of the available area (hh:mm).

h) “TIL”: The end time (de-allocation) of the available area (hh:mm).

i) “FIR/UIR”: Indicates the FIR or the UIR that the available area lies within (either wholly or partially). An FIR/UIR is displayed as an information region type (i.e. “FIR” or “UIR”) followed by location indicator (4 characters). If the available area lies across multiple FIRs/UIRs:

- the first FIR/UIR is shown appended by an epsilon (i.e. “…”).
- upon a click on this field a drop down menu displays all the FIRs and UIRs.

An unselected area availability statement is displayed with its foreground text colour set to CHMI / FUA application / General / Airspace status monitor / AMA-NAM availability colour and its background colour set to CHMI / FUA application / General / List / Default cell colour if:

a) The area availability statement has not been allocated as part of this AUP and

b) Another area availability statement having the same RSA Id is not currently selected.

Note: Para 7.4.2.1.2 describes the methods for selecting area availability statement(s).

An unselected area availability statement is displayed with its foreground text colour set to CHMI / FUA application / General / Airspace status monitor / AMA-NAM availability colour and its background colour set to CHMI / container / Focus Background colour if:

a) The area availability statement has not been allocated as part of this AUP and

b) Another area availability statement having the same RSA Id is currently selected.

Note: Para 7.4.2.1.2 describes the methods for selecting area availability statement(s).
An unselected area availability statement is displayed with its foreground text colour set to \textit{CHMI / FUA application / General / Airspace status monitor / AMA-NAM allocation colour} and its background colour set to \textit{CHMI / FUA application / General / List / Default cell colour} if:

\begin{itemize}
  \item[a)] The area availability statement has been allocated as part of this AUP and
  \item[b)] Another area availability statement having the same RSA Id is not currently selected.
\end{itemize}

\textbf{Note:} Para 7.4.2.1.2 describes the methods for selecting area availability statement(s).

An unselected area availability statement is displayed with its foreground text colour set to \textit{CHMI / FUA application / General / Airspace status monitor / AMA-NAM allocation colour} and its background colour set to \textit{CHMI / container / Focus Background colour} if:

\begin{itemize}
  \item[a)] The area availability statement has been allocated as part of this AUP and
  \item[b)] Another area availability statement having the same RSA Id is currently selected.
\end{itemize}

\textbf{Note:} Para 7.4.2.1.2 describes the methods for selecting area availability statement(s).

\section*{7.4.2.1.2. Selection}

By default, none of the area availability statements are selected.

To set or change the currently selected area availability statement, click on any field of the desired area availability statement.

To select multiple area availability statements, the following key strokes shall be supported:

\begin{itemize}
  \item[a)] Ctrl click: to add an individual area availability statement to the current selection.
  \item[b)] Shift click: to select all the area availability statements between the last click selection and this key stroke.
  \item[c)] Click-drag-release: to select all the area allocation statements between the click action and the release action.
  \item[d)] Ctrl A: to select all the area availability statements in the RSA Availability list.
\end{itemize}

If the area availability statement has not been allocated as part of this AUP, a selected area availability statement is displayed with its foreground text colour set to \textit{CHMI / FUA application / General / List / Default cell colour} and its background colour set to \textit{CHMI / FUA application / General / Airspace status monitor / AMA-NAM availability colour}.

If the area availability statement has been allocated as part of this AUP, a selected area availability statement is displayed with its foreground text colour set to \textit{CHMI / FUA application / General / List / Default cell colour} and its background colour set to \textit{CHMI / FUA application / General / Airspace status monitor / AMA-NAM allocation colour}.

Upon change of selected area availability statement, the RSA Allocation list and the CDR Expansion list are updated – see sections 0 and 0 respectively.
7.4.2.1.3. Deselection

To deselect a currently selected area availability statement, ctrl click on any of its field.

Upon deselection of an area availability statement, the RSA Allocation list and the CDR Expansion list are updated – see sections 0 and 0 respectively.

7.4.2.1.4. Filtering

By default, the RSA Availability Filtering checkboxes labelled “AMA”, “NAM” and “RCA” positioned just above the RSA Availability list are all checked.

Checking/unchecking an RSA Availability Filter checkbox includes/removes respectively the area availability statements of the corresponding category from the RSA Availability list.

7.4.2.1.5. Sort

By default, the area availability statements in the RSA Availability list are sorted by “RSA Id” and then by “WEF” time and “TIL” time of the allocated period.

Whenever “WEF” time and/or “TIL” time are included in the sort criteria, the sorting is performed taking into account the date and the time even though only the time is displayed in the list.

Upon a click on an unsorted column header:

a) The list is sorted in ascending order of the selected column.

b) An up arrow in front of column title is displayed (indicating an ascending sort sequence).

c) A number next to the arrow indicates the position of the column in the combined sort sequence.

Upon a shift click on a column header:

a) The selected column is appended to the combined sort sequence.

b) The list is sorted in ascending order of the selected column.

c) An up arrow in front of column title is displayed (indicating an ascending sort sequence).

d) A number next to the arrow indicates the position of the column in the combined sort sequence.

Upon subsequent clicks or shift clicks on an already sorted column:

a) The sort order is toggled between ascending and descending.

b) The arrow direction is toggled to reflect the sort direction.

Whenever “WEF” time and/or “TIL” time are included in the sort criteria, the sorting is performed taking into account the date and the time even though only the time is displayed in the list.
Upon change of sort criteria, the scrolling is automatically adjusted such that as many of the currently selected area availability statements are visible.

7.4.2.1.6. “Allocate” Button

The “Allocate” button shall only be available in the editing mode of the window (it is not available in the read-only mode of the window).

The “Allocate” button is only accessible in the editing mode of the window if:

a) The AUP status is either INTENT or DRAFT and

b) Only 1 area availability statement is currently selected.

In all other cases, the “Allocate” button is greyed-out (i.e. not accessible).

Note: Allocation of an already allocated area availability statement is possible to allow the user to specify multiple time and/or level segments.

To prepare an area allocation for the currently selected area availability statement, click on the “Allocate” button if accessible. The Edit Area Statement window is opened pre-filled with the values of the currently selected area availability statement – see Section 10.

7.4.2.1.7. “Expand” Button

The “Expand” button at the top of the RSA Availability list shall only be available in the editing mode of the window (it is not available in the read-only mode of the window).

The “Expand” button at the top of the RSA Availability list is only accessible in the editing mode of the window if:

a) The AUP status is either INTENT or DRAFT, and

b) None of the currently selected area availability statements have already been allocated.

In all other cases, the “Expand” button is greyed-out (i.e. not accessible).

To populate or reset the CDR Expansion list with linked CDRs known by the system for the currently selected non allocated area availability statement(s), click on the “Expand” button if accessible.

Upon invoking the “Expand” button, if any of the linked CDRs had been marked as “Confirmed”, the user is asked for Confirmation of the re-expansion.

Upon invoking the “Expand” button or upon confirmation of re-expansion if confirmation was required, the content of the CDR Expansion list is updated – see section 0 and Expansion rules described in section 6 RSA / CDR Expansion Rules. If the CDR Expansion list was non empty prior to the click on the “Expand” button, all those entries are lost. On expansion, the flight levels and the time limits of the expanded linked CDRs are extrapolated from the selected area availability statements.
7.4.2.1.8. "Expand All" Button

The “Expand All” button at the top of the RSA Availability list shall only be available in the editing mode of the window (it is not available in the read-only mode of the window).

The “Expand All” button at the top of the RSA Availability list is only accessible in the editing mode of the window if the AUP status is either INTENT or DRAFT.

In all other cases, the “Expand All” button is greyed-out (i.e. not accessible).

To populate or re-populate the CDR Expansion list with linked CDRs due to all the non allocated RSAs, click on the “Expand All” button if accessible.

Upon invoking the “Expand All” button, if any of the linked CDRs of non allocated RSAs had been marked as “Confirmed”, the user is asked for Confirmation of the re-expansion.

Upon invoking the “Expand All” button or upon confirmation of re-expansion if confirmation was required, the content of the CDR Expansion list is updated – see para 7.4.2.3 and Expansion rules described in para 7.4.2.3. If the CDR Expansion list was non empty prior to the click on the “Expand All” button, all those entries are removed first.

7.4.2.1.9. "Confirm All" Button

The “Confirm All” button is accessible only if the AUP status is DRAFT. In all other cases, the “Confirm Visible” button is greyed-out (i.e. not accessible).

If the user agrees with all the route statements linked to the RSA Availabilities and the RSA Allocations in the RSA tab, instead of having to check each “Confirmed” check box per route statement, the user can click the “Confirm All” button if accessible.

WARNING: In the general case, not all route statements will be displayed due to the partial selection of RSA Availabilities or due to specific settings of the CDR filters.

Upon invoking “Confirm All”:

a) The “Confirmed” check box of each route statement contained in the CDR list, shall be automatically marked as checked, and

b) The display of the “Confirmed” check box in the linked area allocation statement shall be re-assessed.

7.4.2.2. RSA Allocation List

7.4.2.2.1. List Definition

The RSA Allocation list displays, according to the RSA Allocation filter check boxes, all the allocated RSAs within the currently selected area availability statement(s) in the RSA Availability list.

Note: this means upon a change of selection in the RSA Availability list, the RSA Allocation list needs to be updated.

Each row of an RSA Allocation list (excluding the header) represents an area allocation statement.
An area allocation statement can be for an AMC Manageable Area (AMA), Non AMC Manageable (NAM) or for a Reduced Coordination Area (RCA). Note: the AMA and NAM acronyms are used for AMC understanding. The old acronyms are TSA and RAR respectively which shall be maintained in ACA file format.

An area allocation statement consists of 12 fields displayed in the following order:

a) “CAT”: The AUP category of the allocated area (“AMA”, “NAM” or “RCA”).

b) "Lvl1": check box for FUA level 1.

c) "Lvl2": check box for FUA level 2.

d) “RSA Id”: The area identification (max 12 alphanumeric).

e) “MNM FL”: The minimum flight level of the allocated area (3 digits or “GND”).

f) “MAX FL”: The maximum flight level of the allocated area (3 digits or “UNL”).

g) “WEF”: The allocation start time of the area (hh:mm).

h) “TIL”: The allocation end time (de-allocation) of the area (hh:mm).

i) “Resp. Unit”: The primary responsible unit (max 12 alphanumeric) of the area.

j) “FIR/UIR”: Indicates the FIR or the UIR that the allocated area lies within (either wholly or partially). An FIR/UIR is displayed as an information region type (i.e. “FIR” or “UIR”) followed by location indicator (4 characters). If the allocated area lies across multiple FIRs/UIRs:
   • The first FIR/UIR is shown appended by an epsilon (i.e. “…”).
   • Upon a click on this field a drop down menu displays all the FIRs and UIRs.

k) “Remark”: Any additional remarks (max 128 characters).

l) “Confirmed”: This field displays a 3 state icon. If the RSA does not have any linked CDRs or all the linked CDRs have been marked as “Confirmed”, it displays “●” (green light). If some but not all the linked CDRs have been marked as “Confirmed”, it displays “●” (orange light). If none of the linked CDRs have been marked as “Confirmed”, it displays “ ●” (red light).

An unselected area allocation statement is displayed with its foreground text colour set to CHMI / FUA application / General / Airspace status monitor / AMA-NAM allocation colour and its background colour set to CHMI / FUA application / General / List / Default cell colour.

Note: Since the “Confirmed” field contains an icon (and not text) the colour of the icon is not impacted by this requirement.

For a UUP, the RSA Allocation list also displays possible NAM RSA Allocations in the past: NAM RSA Allocations that have an allocation period inside the AUP validity period but before the UUP validity start time.
This is required to evaluate the allocation status of a NAM:

a) If a NAM has no RSA Allocation in the AUP or related UUPs, it is implicitly allocated according to the RSA Availability.

b) If the NAM has an explicit RSA Allocation in the AUP or related UUPs, this explicit RSA Allocation overrides the RSA Availability for the 24 hours validity period of the AUP.

The same principle applies to the CDR expansion. In order to evaluate the CDR expansion of a NAM, we have to take into account the explicit RSA Allocations for the complete 24 hours validity period of the AUP.

For a UUP, a NAM RSA Allocation in the past (NAM RSA Allocations that have an allocation period inside the AUP validity period but before the UUP validity start time) is displayed in grey colour (not updateable).

7.4.2.2.2. Selection

Following an allocation action of an available area statement (via the “Allocate” button), by default, the newly allocated area statement is selected.

Following a change of area availability statement selection in the RSA Availability list, by default, none of the area allocation statements are selected.

To set or change the currently selected area allocation statement(s), click on any field of the desired area allocation statement.

To select multiple area allocation statements, the following key strokes shall be supported:

a) Ctrl click: to add an individual area allocation statement to the current selection.

b) Shift click: to select all the area allocation statements between the last click selection and this key stroke.

c) Click-drag-release: to select all the area allocation statements between the click action and the release action.

d) Ctrl A: to select all the area allocation statements in the RSA Allocation list.

A selected area allocation statement is displayed with its foreground text colour set to CHMI / FUA application / General / List / Default cell colour and its background colour being set to CHMI / FUA application / General / Airspace status monitor / AMA-NAM allocation colour.

Note: Since the “Confirmed” field contains an icon (and not text) the colour of the icon is not impacted by this requirement.

7.4.2.2.3. Deselection

To deselect a currently selected area allocation statement, ctrl click on any of its field.
7.4.2.2.4. Filtering

By default, the RSA Allocation Filtering checkboxes labelled “AMA”, “NAM” and “RCA” positioned just above the RSA Allocation list are all checked.

Checking/unchecking an RSA Allocation Filter checkbox includes/removes respectively the area allocation statements of the corresponding category from the RSA Allocation list.

7.4.2.2.5. RSA “Add to Repetitive” Button

The “Add to Repetitive” button shall only be available in the editing mode of the window (it is not available in the read-only mode of the window).

The “Add to Repetitive” button is only accessible if a single area allocation statement is selected. It allows user to add the selected area allocation statement to the list of repetitive RSAs.

In all other cases, the “Add to Repetitive” button is greyed-out (i.e. not accessible).

On invoking the “Add to Repetitive” button, the Edit Repetitive Area Statement window is opened – see Section 23.

7.4.2.2.6. Area Editing Buttons

3 area editing buttons are available in the editing mode of the window (they are not available in the read-only mode of the window) as follows:

a) “Edit”: allows to modify the currently selected area allocation statement.

b) “Duplicate”: allows to insert a new area allocation statement initialised from the currently selected area allocation statement.

c) “Delete”: allows to delete the currently selected area allocation statement.

The “Edit” and “Duplicate” editing buttons are accessible in the editing mode of the window only if a single area allocation statement is selected and the AUP status is either INTENT or DRAFT. In all other cases, the “Edit” and “Duplicate” editing buttons are greyed-out (i.e. not accessible).

The “Delete” editing buttons is accessible in the editing mode of the window only if one or more area allocation statement is/are selected and the AUP status is either INTENT or DRAFT. In all other cases, the “Delete” editing buttons are greyed-out (i.e. not accessible).

A UUP may also contain NAM RSA Allocations in the past (NAM RSA Allocations that have an allocation period inside the AUP validity period but before the UUP validity start time). These are not updateable.

For those, the “Edit”, “Duplicate” and “Delete” editing buttons are greyed-out (i.e. not accessible).

To edit the currently selected area allocation statement, click on the “Edit” area editing button if accessible. The Edit Area Statement window is opened pre-filled with the current values of the area allocation request – see Section 10.
To insert a new area allocation statement initialised from the currently selected area allocation statement, click on the “Duplicate” area editing button if accessible. The Edit Area Statement window is opened pre-filled with the current values of the area – see Section 10.

An area allocation statement added or modified through the Edit Area Statement window is automatically inserted into the RSA Allocation list according to the current sort criteria – see para 7.4.2.2.8. Upon insertion of the area allocation statement into the RSA Allocation list:

a) The inserted/modified area allocation statement is automatically set to be the selected area allocation statement.

b) The RSA Allocation list is automatically scrolled so that the inserted/modified area allocation statement is visible in the RSA Allocation list.

c) Unless only the “Remark” and/or the “Resp Unit” field(s) has/have been modified, if CHMI / FUA application / AUP / Automatic expansion is set, all linked CDRs are automatically (re-)expanded (see Expansion rules described in para 7.4.2.3 and displayed in the CDR Expansion list with its corresponding “Confirmed” check box unchecked.

To delete the selected area allocation statement(s), click on the “Delete” area editing button if accessible. The user is asked via a Confirmation window to confirm the delete request.

Upon deletion of the previously selected area allocation statement(s)

a) All linked CDRs to the previously selected area allocation statement(s) are automatically deleted.

b) The area allocation statement immediately below the deleted area allocation statement, if any, is automatically set to be the newly selected area, and

c) If CHMI / FUA application / AUP / Automatic expansion is set, an automatic re-expansion (see Expansion rules described in para 7.4.2.3 of the currently selected area availability statements is performed resulting in the update of the CDR Expansion list.

7.4.2.2.7. “Expand” Button

The “Expand” button at the top of the RSA Allocation list shall only be available in the editing mode of the window (it is not available in the read-only mode of the window).

The “Expand” button at the top of the RSA Allocation list is only accessible in the editing mode of the window only if an AMA or NAM area allocation statement is selected and the AUP status is either INTENT or DRAFT. In all other cases, the “Expand” button is greyed-out (i.e. not accessible).

To reset the list of linked CDRs of a selected area allocation statement to those known by the system (see Expansion rules described in para 7.4.2.3, click on the “Expand” button if accessible. If any of the linked CDRs had been marked as “Confirmed”, the user will be asked via a Confirmation window for confirmation of re-expansion. All changes previously made to any of the linked route statements will be lost upon confirmation. On expansion, the flight levels and the time limits of the expanded linked CDRs are extrapolated from the selected area statement.
7.4.2.2.8. Sort

By default, the area allocation statements in the RSA Allocation list are sorted by “RSA Id” and then by “WEF” time and “TIL” time of the allocated period.

Whenever “WEF” time and/or “TIL” time are included in the sort criteria, the sorting is performed taking into account the date and the time even though only the time is displayed in the list.

List sort criteria are then adjustable according to 0, 0 and 0 by the user.

Upon change of sort criteria, the scrolling is automatically adjusted.

7.4.2.3. CDR Expansion List

7.4.2.3.1. List Definition

The CDR Expansion list displays, according to the CDR filter check boxes, the expanded linked CDRs of both the allocated and the non allocated RSAs within the currently selected area availability statement(s) in the RSA Availability list.

For CDR2s, both opened CDR2s and not opened CDR2s are presented in the CDR Expansion list following an expansion.

Note: As part of the expansion process, as well as identifying openings of CDR2s, it also lists CDR2s that are not opened. Not opened CDR2s are generated by the expansion in order to resolve conflicts where the CDR2 is crossing several (possibly overlapping) RSA or (either due to non-allocated RSAs or due to contradictions encountered where the CDR2 serves as off load for one RSA and as a Crossing or Nearby for others).

Each row of a CDR Expansion list (excluding the header) represents a route statement.

A route statement can be for an ATS route, CDR1 or for a CDR2. Note, ATS routes are identified as CDR0 by the servers.

A route statement consists of 11 fields displayed in the following order:

a) “EXCL”: For ATS and CDR1 route statements, this check box indicates whether the route statement is to be excluded from the CRAM (box is checked) or not.

b) “Type”: Set to either “ATS”, “CDR1” or “CDR2”.

c) “Route Id”: The route identification (max 7 alphanumeric).

d) “From Point”: The starting point of the route portion that is impacted by this route statement (2 to 5 characters).

e) “To Point”: The last (ending) point of the route portion that is impacted by this route statement (2 to 5 characters).

f) “MNM FL”: The minimum flight level of the route (3 digits or “GND”).

g) “MAX FL”: The maximum flight level of the route (3 digits or “UNL”).

h) “WEF”: The start time of the validity period of the route (hh:mm).
i) “TIL”: The end time of the validity period of the route (hh:mm).

j) “FIR/UR”: Indicates the FIR or the UIR that the allocated area lies within (either wholly or partially). An FIR/UR is displayed as an information region type (i.e. “FIR” or “UIR”) followed by location indicator (4 characters). If the allocated area lies across multiple FIRs/UIRs:

- The first FIR/UR is shown appended by an epsilon (i.e. “…”).
- Upon a click on this field a drop down menu displays all the FIRs and UIRs.

a) “Remark”: Optional remarks (max 128 characters). For NOT OPENED CDR2s, the remark field is set to “NOT OPENED”.

b) “Confirmed”: When checked, it signifies that the user has:

- Performed the necessary manual checks.
- Applied the coordination procedures and
- Certifies that the CDR opening or closure is required to be reflected in the CRAM if not marked for exclusion (“EXCL”).

In the unselected state, ATS and CDR1 route statements are displayed with its foreground text colour set to CHMI / FUA application / General / List / ATS and CDR1 text colour and its background colour set to CHMI / FUA application / General / List / Default cell colour.

**Note:** Since the “EXCL” and the “Confirmed” field contains a checkmark (and not really text) the colour of the checkmark is not impacted by this requirement.

**Note:** See Para 7.4.2.3.2 for methods of selecting area allocation statement(s).

In the unselected state, openings of CDR2 route statements are displayed with its foreground text colour set to CHMI / FUA application / General / List / CDR2 text colour and its background colour set to CHMI / FUA application / General / List / Default cell colour.

**Note:** Since the “EXCL” and the “Confirmed” field contains a checkmark (and not really text) the colour of the checkmark is not impacted by this requirement.

**Note:** See para 7.4.2.3.2 for methods of selecting area allocation statement(s).

In the unselected state, NOT OPENED CDR2 route statements are displayed with its foreground text colour set to CHMI / FUA application / General / List / NOT OPENED text colour and its background colour set to CHMI / FUA application / General / List / Default cell colour.

**Note:** Since the “Confirmed” field contains a checkmark (and not really text) the colour of the checkmark is not impacted by this requirement.

**Note:** See para 7.4.2.3.2 for methods of selecting area allocation statement(s).
7.4.2.3.2. Selection

By default, none of the route statements are selected.

To set or change the currently selected route statement(s), click on any field of the desired route statement.

To select multiple route statements, the following key strokes shall be supported:

a) Ctrl click: to add an individual route statement to the current selection.

b) Shift click: to select all the route statements between the last click selection and this key stroke.

c) Click-drag-release: to select all the area allocation statements between the click action and the release action.

d) Ctrl A: to select all the route statements in the CDR Expansion list.

In the selected state, ATS and CDR1 route statements are displayed with its foreground text colour set to CHMI / FUA application / General / List / Default cell colour and its background colour set to CHMI / FUA application / General / List / ATS and CDR1 text colour.

Note: Since the “EXCL” and the “Confirmed” field contains a checkmark (and not really text) the colour of the checkmark is not impacted by this requirement.

In the selected state, openings of CDR2 route statements are displayed with its foreground text colour set to CHMI / FUA application / General / List / Default cell colour and its background colour set to CHMI / FUA application / General / List / CDR2 text colour.

Note: Since the “EXCL” and the “Confirmed” field contains a checkmark (and not really text) the colour of the checkmark is not impacted by this requirement.

In the selected state, NOT OPENED CDR2 route statements are displayed with its foreground text colour set to CHMI / FUA application / General / List / Default cell colour and its background colour set to CHMI / FUA application / General / List / NOT OPENED text colour.

Note: Since the “Confirmed” field contains a checkmark (and not really text) the colour of the checkmark is not impacted by this requirement.

Automatic change of the selected route can occur after certain actions (e.g. on deletion of a route statement). Upon an automatic change of selected route, the scrolling is automatically adjusted.

7.4.2.3.3. Deselection

To deselect a currently selected route statement, ctrl click on any of its field.

7.4.2.3.4. Filtering

By default, the CDR filtering checkboxes labelled “ATS”, “CDR1” and “CDR2” positioned just above the CDR list are all checked.

By default, the CDR filtering checkbox labelled “NOT OPENED” positioned immediately after the “CDR2” checkbox just above the CDR list is unchecked.
Checking/unchecking a CDR filter checkbox respectively includes/removes the route statements of the corresponding type from the CDR list.

7.4.2.3.5. Route Editing Buttons

7.4.2.3.5.1. General

2 route editing buttons in the editing mode of the window are available (they are not available in the read-only mode of the window) as follows:

a) “Edit”: allows to modify the currently selected route statement.

b) “Delete”: allows to delete the currently selected route statement.

7.4.2.3.5.2. Edit

The “Edit” route editing buttons are only accessible in the editing mode of the window if a route statement other than NOT OPENED CDR2 is selected and the AUP status is either INTENT or DRAFT. In all other cases when the window is in the editing mode, the “Edit” route editing button is greyed-out (i.e. not accessible).

To edit the currently selected route statement, click on the “Edit” route editing button if accessible. If the route statement is marked as “Confirmed”, the user will be asked via a Confirmation window for confirmation of the edit request. The Edit Route Statement window is opened pre-filled with the current values of the route – see Section 13.

A route statement modified through the Edit Route Statement window is automatically moved into the Manual CDRs list (i.e. removed from the CDR Expansion list and added to the Manual CDR list) according to its current sort criteria – see para 7.4.3.7. Upon insertion of the route statement into the Manual CDRs list:

a) The modified route statement is automatically set to be the selected route statement.

b) The “Confirmed” check box of the modified route statement is automatically unchecked.

Note, automatic unchecking of “Confirmed” check box may lead to a change in status of the “Confirmed” field in the linked RSA area allocation statement.

7.4.2.3.5.3. Delete

The “Delete” route editing button is only accessible in the editing mode of the window if a route statement is selected and the AUP status is either INTENT or DRAFT. In all other cases when the window is in the editing mode, the “Delete” route editing button is greyed-out (i.e. not accessible).

To delete the selected route statement, click on the “Delete” route editing button if accessible. The user is asked via a Confirmation window to confirm the delete request.

Upon deletion of the previously selected route statement, the route statement immediately below the deleted route statement, if any, is automatically set to be the newly selected route.

7.4.2.3.6. Confirm Visible

The “Confirm Visible” button is accessible only if the AUP status is DRAFT and the CDR list has at least one visible entry. In all other cases, the “Confirm Visible” button is greyed-out (i.e. not accessible).
If the user agrees with all the filtered route statements (note, some route statements may not be displayed due to the specific settings of the CDR filters) in the CDR list, instead of having to check each “Confirmed” check box per route statement, the user can click the “Confirm Visible” button if accessible.

Upon invoking “Confirm Visible”:

   a)  The “Confirmed” check box of each route statement contained in the CDR list, but not those filtered out, shall be automatically marked as checked, and

   b)  The display of the “Confirmed” check box in the linked area allocation statement shall be re-assessed.

7.4.2.3.7. Sort

By default, the route statements in the CDR list are sorted by “Route Id”, sequence number of the points (not displayed) and then by “WEF” time and “TIL” time of the period.

Whenever sorting is required on “Route ID”, it shall be processed as described below:

   a)  The first criterion is by ascending order of the first pure alphabetic part of the identifier (first group of letters from which the prefix (first character equal to 'K', 'U' or 'S') has been removed e.g. AB123 comes after A123, B123 comes after AB123).

   b)  The second criterion is by ascending order of the first pure numeric part of the identifier of the route (first group of ciphers following the above group of letters e.g. A123 comes after A44).

   c)  The third criterion is by ascending order of the possible third alphanumeric part of the identifier of the route (first group of letters and ciphers following the above group of ciphers) (e.g.UL613 comes before UL613D).

   d)  The last criterion is to present the route with a prefix (by ascending order of prefix equal to 'K', 'S' or 'U') just before the route without prefix (e.g. UA44 comes before A44).

Whenever “From Point” and/or “To Point” is included in the sort criteria, the sorting is performed according to the “Route Id” and then the sequence number of the point along the route which is not displayed.

Whenever “WEF” time or “TIL” time is included in the sort criteria, the sorting is performed taking into account the date and the time even though only the time is displayed in the list.

List sort criteria are then adjustable according to 0, 0 and 0 by the user.

Upon change of sort criteria, the scrolling is automatically adjusted. Developer Note: propose default coherent processing.

7.4.2.3.8. “EXCL” Checkbox

By default, the “EXCL” checkbox for ATS and CDR1 route statements are unchecked.

A CDR2 route statement (including NOT OPENED CDR2 route statement) does not contain an “EXCL” checkbox field.
The “EXCL” checkbox per ATS and CDR1 route statement is accessible in the editing mode of the window only if the AUP status is DRAFT. In all other cases, the “EXCL” checkbox per ATS and CDR1 route statement is greyed-out (i.e. not accessible).

If the “EXCL” checkbox of the relevant route statement is unchecked and accessible, click on the “EXCL” check box to check it. This action will identify an ATS or CDR1 route statement that has to be excluded from the CRAM.

If the “EXCL” checkbox of the relevant route statement is checked and accessible, click on the “EXCL” check box to uncheck it. This action will identify an ATS or CDR1 route statement that has to be included in the CRAM.

Upon a click action on the “EXCL” checkbox of a route statement:

a) The route statement becomes the selected route statement (note, scrolling is not impacted), and
b) The checked/unchecked state of the “EXCL” check box is toggled.

7.4.2.3.9. “Confirmed” Checkbox

By default, the “Confirmed” checkbox of a route statement is:

a) Checked for NOT OPENED CDR2 route statement and
b) Unchecked for all other route statements.

The “Confirmed” checkbox per route statement is accessible in the editing mode of the window only if the AUP status is DRAFT. In all other cases, the “Confirmed” checkbox per route statement is greyed-out (i.e. not accessible).

If the “Confirmed” checkbox of the relevant route statement is accessible and unchecked, then the user has to click on this “Confirmed” check box (toggle on) to indicate that:

a) The user has performed the necessary manual checks.
b) The user has applied the coordination procedures.
c) The user certifies that the CDR opening or closure is required to be reflected in the CRAM [except when marked for exclusion (“EXCL”)].

If the checkbox of the relevant route statement is accessible and checked, then the user has to click on the “Confirmed” check box (toggle off) to indicate that:

a) The user has not completed the manual checks, or
b) The coordination procedures have not been completed, or
c) The user does not certify for the inclusion of the CDR in the CRAM.

Upon a click action on the “Confirmed” checkbox of a route statement,

a) The route statement becomes the selected route statement (note, scrolling is not impacted), and
b) The checked/unchecked state of the “Confirmed” check box is toggled.
c) The display of the “Confirmed” check box in the linked area allocation statement shall be re-assessed.
7.4.3. **“Manual CDRs” Tab**

![Image](image_url)

**Figure 7-2  “Manual CDRs” Tab of the AUP Window**

### 7.4.3.1. Manual CDR List Definition

The Manual CDR list displays, according to the CDR filter check boxes, all manually added CDRs (via the “Add” button – see para 7.4.3.6) and all manually modified CDRs from the CDR Expansion list.

Same as CDR Expansion list in the RSAs tab except (1) - see para 7.4.2.3.

### 7.4.3.2. Route Selection

Same behaviour as that defined for the CDR Expansion list in the RSAs tab - see para 7.4.2.3.2.

### 7.4.3.3. Route Deselection

Same behaviour as that defined for the CDR Expansion list in the RSAs tab - see para 7.4.2.3.2.

### 7.4.3.4. CDR Filtering

Same behaviour as that defined for the CDR Expansion list in the RSAs tab - see para 7.4.2.3.3.
7.4.3.5. CDR “Add to Repetitive” Button

The CDR “Add to Repetitive” button is only accessible if a route statement is selected. It allows the user to add the selected route statement to the list of repetitive CDRs.

On invoking the “Add to Repetitive” button, the Edit Repetitive Route Statement window is opened – see Section 24.

7.4.3.6. Route Editing Buttons

4 route editing buttons are available in the editing mode of the window (they are not available in the read-only mode of the window) as follows:

a) “Add”: allows to insert a new route statement.

b) “Edit”: allows to modify the currently selected route statement.

c) “Duplicate”: allows to insert a new route statement initialised from the currently selected route statement.

d) “Delete”: allows to delete the currently selected route statement.

The “Add” route editing button is only accessible if the AUP status is either INTENT or DRAFT. In all other cases, the “Add” route editing button is greyed-out (i.e. not accessible).

The “Edit”, “Duplicate” and “Delete” route editing buttons are accessible only if a route statement is selected and the AUP status is either INTENT or DRAFT. In all other cases, the “Edit”, “Duplicate” and “Delete” route editing buttons are greyed-out (i.e. not accessible).

To add a new route statement to the CDR list, click on the “Add” route editing button if accessible. The Select Route window is opened – see Section 11.

To edit the currently selected route statement, click on the “Edit” route editing button if accessible. If the route statement is marked as “Confirmed”, the user will be asked via a Confirmation window for confirmation of the edit request. The Edit Route Statement window is opened pre-filled with the current values of the route – see Section 13.

To insert a new route statement initialised from the currently selected route statement, click on the “Duplicate” route editing button if accessible. The Edit Area Statement window is opened pre-filled with the current values of the route – see Section 10.

A route statement added or modified through the Edit Route Statement window (note, after selecting a route from the Select Route window, the Edit Route Statement window is automatically opened pre-filled with this selection) is automatically inserted into the CDR list according to the current sort criteria – see para 7.4.3.7.

Upon insertion of the route statement into the CDR list:

a) The inserted/modified route statement is automatically set to be the selected route statement.

b) The CDR list is automatically scrolled so that the inserted/modified route statement is visible in the CDR list.

c) The “EXCL” checkbox of an inserted ATS or CDR1 route statement is automatically unchecked.
d) The “EXCL” field of the inserted CDR2 route statement is automatically set to blank.

e) The “Confirmed” check box of the inserted/modified route statement is automatically unchecked.

To delete the selected route statement, click on the “Delete” route editing button if accessible. A Confirmation window pops up requiring the user to confirm the delete request.

Upon deletion of the previously selected route statement, the route statement immediately below the deleted route statement, if any, is automatically set to be the newly selected route.

7.4.3.7. Sort

Same behaviour as that defined for the CDR Expansion list in the RSAs tab - see para 7.4.2.3.7.

7.4.3.8. “EXCL” Checkbox

Same behaviour as that defined for the CDR Expansion list in the RSAs tab - see para 7.4.2.3.8.

7.4.3.9. “Confirmed” Checkbox

Same behaviour as that defined for the CDR Expansion list in the RSAs tab - see para 7.4.2.3.9 - except (6c) is not applicable as this is a list of Manual CDRs.
7.4.4. **“Overview” Tab**

By default, the horizontal split-tab handle is positioned such that there is equal vertical height for the RSA Allocation Overview list and the Merged CDR list.

The user can drag the horizontal split-tab handle vertically between predefined limits of the tab area so that more or less entries of one list over another can be viewed simultaneously.

7.4.4.1. RSA Allocation Overview List

7.4.4.1.1. List Definition

As RSA Allocation list in the RSAs tab - see para 7.4.2.2.1 with an addition of a “Goto” button above the RSA Allocation Overview list.

7.4.4.1.2. Selection

By default, none of the area allocation statements are selected.

To set or change the currently selected area allocation statement(s), click on any field of the desired area allocation statement.

To select multiple area allocation statements, the following key strokes shall be supported:

- **a)** Ctrl click: to add an individual area allocation statement to the current selection.
- **b)** Shift click: to select all the area allocation statements between the last click selection and this key stroke.
- **c)** Click-drag-release: to select all the area allocation statements between the click action and the release action.
- **d)** Ctrl A: to select all the area allocation statements in the RSA Allocation list.
A selected area allocation statement is displayed with its foreground text colour set to CHMI / FUA application / General / List / Default cell colour and its background colour being set to CHMI / FUA application / General / Airspace status monitor / AMA-NAM allocation colour.

**Note:** Since the “Confirmed” field contains an icon (and not text) the colour of the icon is not impacted by this requirement.

### 7.4.4.1.3. Deselection

To deselect a currently selected area allocation statement, ctrl click on any of its field.

### 7.4.4.1.4. Filtering

Same behaviour as that defined for the RSA Allocation list in the RSAs tab.

### 7.4.4.1.5. Sort

Same behaviour as that defined for the RSA Allocation list in the RSAs tab - see para 7.4.2.2.8.

### 7.4.4.1.6. “Goto” Button

The “Goto” button above the area allocation overview list is only accessible if a single area allocation statement is selected in the list.

Upon click on the “Goto” button when an area allocation statement is selected in the list:

a) The tab view is automatically changed to the “RSAs” tab view.

b) The selected area allocation statement in the “RSAs” tab view is set to be the same as the area allocation statement selected in the “Overview” tab.

c) The RSA Allocation list in the “RSAs” tab view is automatically scrolled such that the selected area allocation statement is visible, and

d) The 1st linked route statement, if present, is set to be the selected route statement of the CDR list.

### 7.4.4.2. Merged CDR List

#### 7.4.4.2.1. List Definition

The Merged CDR list displays, according to the CDR filter check boxes, the results of the merge processing as described in section 6 RSA / CDR Expansion Rules.

Note: Following the merging process, not opened CDR2 are removed from the resulting Merged CDR list (unless a manual opening of that CDR had been included).

Each row of a Merged CDR list (excluding the header) represents a route statement.

A route statement in the Merged CDR list can be for an ATS route, CDR1 or for a CDR2. Note, ATS routes are identified as CDR0 by the servers.

A route statement in the Merged CDR list consists of 13 fields displayed in the following order:

a) “EXCL”: For ATS and CDR1 route statements, this check box indicates whether the route statement is to be excluded from the CRAM (box is checked) or not.

b) “Type”: Set to either “ATS”, “CDR1” or “CDR2”.

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c) “Route Id”: The route identification (max 7 alphanumeric).

d) “From Point”: The starting point of the route portion that is impacted by this route statement (2 to 5 characters).

e) “To Point”: The last (ending) point of the route portion that is impacted by this route statement (2 to 5 characters).

f) “MNM FL”: The minimum flight level of the route (3 digits or “GND”).

g) “MAX FL”: The maximum flight level of the route (3 digits or “UNL”).

h) “WEF”: The start time of the validity period of the route (hh:mm).

i) “TIL”: The end time of the validity period of the route (hh:mm).

j) “FIR/UIR”: Indicates the FIR or the UIR that the allocated area lies within (either wholly or partially). An FIR/UIR is displayed as an information region type (i.e. “FIR” or “UIR”) followed by location indicator (4 characters). If the allocated area lies across multiple FIRs/UIRs:
   • The first FIR/UIR is shown appended by an epsilon (i.e. “...”).

k) Upon a click on this field a drop down menu displays all the FIRs and UIRs.

l) “RSA Id”: If the route statement is linked to an included RSA, its identification is contained in this column, otherwise the column is left blank.

m) “Remark”: Optional remarks (max 128 characters).

n) “Confirmed”: When checked, it signifies that the user has:
   • Performed the necessary manual checks.
   • Applied the coordination procedures and
   • Certifies that the CDR opening or closure is required to be reflected in the CRAM if not marked for exclusion (“EXCL”).

In the unselected state, ATS and CDR1 route statements in the Merged CDR list are displayed with its foreground text colour set to CHMI / FUA application / General / List / ATS and CDR1 text colour and its background colour set to CHMI / FUA application / General / List / Default cell colour.

**Note:** Since the “EXCL” and the “Confirmed” field contains a checkmark (and not really text) the colour of the checkmark is not impacted by this requirement.

**Note:** See para 7.4.4.3.2 for methods of selecting route statement(s).

In the unselected state, CDR2 route statements in the Merged CDR list are displayed with its foreground text colour set to CHMI / FUA application / General / List / CDR2 text colour and its background colour set to CHMI / FUA application / General / List / Default cell colour.

**Note:** Since the “EXCL” and the “Confirmed” field contains a checkmark (and not really text) the colour of the checkmark is not impacted by this requirement.

**Note:** See para 7.4.4.3.2 for methods of selecting route statement(s).
7.4.4.2.2. **Selection**

Same behaviour as that defined for the CDR Expansion list in the RSAs tab - see para 7.4.2.3.2 – except:

a) is not applicable as the “Overview” tab does not contain NOT OPENED CDR2s.

b) is not applicable as the “Overview” tab does not allow editing of route statements.

7.4.4.2.3. **Deselection**

Same behaviour as that defined for the CDR Expansion list in the RSAs tab - see para 7.4.2.3.3.

7.4.4.2.4. **Filtering**

Same behaviour as that defined for the CDR Expansion list in the RSAs tab - see para 7.4.2.3.4 – except (2) is not applicable as the “Overview” tab does not contain NOT OPENED CDR2s.

7.4.4.2.5. **Sort**

Same behaviour as that defined for the CDR Expansion list in the RSAs tab - see section 7.4.2.3.7. Note: sorting the Merged CDR list by route id will list consecutive CDRs related to different areas.

7.4.4.2.6. **“EXCL” Checkbox**

Interaction with the “EXCL” check box in the Merged CDR list of the “Overview” tab is inhibited.

7.4.4.2.7. **“Confirmed” Checkbox**

Interaction with the “Confirmed” check box in the Merged CDR list of the “Overview” tab is inhibited.

7.4.4.2.8. **“Refresh” Button**

The “Refresh” button above the Merged CDRs list is available in both the editing mode of the window and in the read-only mode of the window.

Note: It is also available in the read-only mode in case someone else is performing edits on the AUP.

The “Refresh” button above the Merged CDRs list is only accessible if a single route statement is selected in the list.

If the AUP has been modified since the last (automatic or manual) “Refresh” action, the message “Merge result obsolete, please refresh” is displayed above the Merged CDRs list.

On invoking the “Refresh” button:

a) The system performs a merging process of all the CDRs in the CDR Expansion list and in the Manual CDRs list.

b) The RSA Allocation Overview list and the Merged CDRs listed are refreshed to display the results of the merged process.
7.4.4.2.9. **“Goto” Button**

The “Goto” button above the Merged CDRs list is available in both the editing mode of the window and in the read-only mode of the window.

The “Goto” button above the Merged CDRs list is only accessible if:

a) The AUP has not been modified since the last (automatic or manual) “Refresh” action, and

b) A single route statement is selected in the list.

In all other cases, the “Goto” button is greyed-out (i.e. not accessible).

If the currently selected route statement in the “Overview” tab originated from a single CDR entry, upon click on the “Goto” button of a route statement:

c) The tab view is automatically changed to the “RSAs” or “Manual CDRs” tab view containing the route statement selected in the “Overview” tab.

d) The selected route statement in the “RSAs” or “Manual CDRs” tab view is set to be the same as the route statement selected in the “Overview” tab.

e) The CDR Expansion list or the Manual CDRs list is automatically scrolled such that the selected route statement is visible.

If the tab view is changed to the “RSAs” tab view:

a) The area allocation statement which the selected CDR is linked to is set to be the selected area allocation statement.

b) The RSA Allocation list is automatically scrolled such that the selected area allocation statement is visible in the list.

c) The area availability statement which the selected area allocation statement is linked to is set to be the selected area availability statement, and

d) The RSA Availability list is automatically scrolled such that the selected area availability statement is visible in the list.

If the currently selected route statement in the “Overview” tab is the result of a merge from multiple CDR entries (maybe even across multiple tabs), upon click on the “Goto” button of a route statement, the Goto Route Statement window is opened – see Section 8.
7.4.5. "Note" Tab

If the AUP status is either INTENT or DRAFT, the Note field of the Note Tab is accessible for further edition (max 25 lines of 60 characters).

7.4.6. Actions

7.4.6.1. Possible Actions

If the AUP status is either INTENT or DRAFT, the Note field of the Note Tab is accessible for further edition (max 25 lines of 60 characters).
Whilst an **AUP** window is active, the “Action” pull down menu and the toolbar buttons may allow the user to perform the following actions:

a) Promote  
b) Demote  
c) Validate for DRAFT / Validate for READY  
d) Save  
e) Delete  
f) Cleanup  
g) Refresh  
h) Import…  
i) Export…  
j) Export as FMP  
k) Print Preview…  
l) Print…  
m) Compare with Predecessor  
n) Plot

### 7.4.6.2. Promote Action

The Promote action is only available in the edit mode of the window for AUPs in INTENT or DRAFT status. In all other cases, the Promote action is greyed-out (i.e. not accessible).

If the AUP does not contain any area allocations nor any route statements (i.e. when the AUP is empty), when a promotion request is initiated, the user is informed via an Information window that an empty AUP cannot be promoted and the Promote action is cancelled.

If the AUP status is DRAFT and not all of the CDRs have been checked as “Confirmed”, when a promotion request is initiated, the user is informed via an Information window that not all CDRs have been checked as “Confirmed” and the Promote action is cancelled.

When a promotion request is accepted, the system initiates a validation check (see Validation rules described in section 7 AUP Validation Rules) to the promoted status.

If the validation check of the AUP to the promoted status is successful:

a) Warnings, if any, are listed in a **Warning** window.  
b) If the AUP status was INTENT prior to the Promote action it is set to DRAFT, if the AUP status was DRAFT prior to the Promote action it is set to READY.  
c) The AUP content with the new status is saved in the system, and  
d) The **AUP** window is updated to reflect the promoted status.
If the validation check of the AUP to the promoted status is unsuccessful, an Error window (see Section 27) is displayed indicating the failures of the validation check and the promotion is not performed.

7.4.6.3. Demote Action

The Demote action is only available in the edit mode of the window for a CADF user who is acting on behalf of the originating AMC of the AUP and the AUP status is either DRAFT or READY. In all other cases, the Demote action is greyed-out (i.e. not accessible).

Upon invoking the Demote action:

a) For a NIL AUP, if the AUP status was READY it is reset to DRAFT and the Remark AUP header field is cleared. In all other cases, if the AUP status was READY it is reset to DRAFT, if the AUP status was DRAFT it is reset to INTENT.

b) The new status and the Remark, when automatically changed upon a demotion, of the AUP is saved in the system, and

c) The AUP window is updated to reflect the demoted state.

7.4.6.4. Validate for DRAFT / Validate for READY Action

The Validate for DRAFT action is only available in the edit mode of the window when the AUP status is INTENT.

The Validate for READY action is only available in the edit mode of the window when the AUP status is DRAFT.

Upon invoking the Validate for DRAFT or Validate for READY action, if no changes were made to the message since the last Promote, Demote or Save action, the user is asked via a Confirmation window whether he/she wishes to start validating anyway or whether to cancel the Validate for DRAFT or Validate for READY action.

Upon invoking the Validate for DRAFT action, the AUP is validated (see Validation rules described in Section 7 AUP Validation Rules) for the DRAFT AUP status.

Upon invoking the Validate for READY action, the AUP is validated (see Validation rules described in section 7 AUP Validation Rules) for the READY AUP status.

If the validation process is successful without any errors or warnings, the status bar displays:

a) “Validate for Draft successful” if the Validate for DRAFT action was invoked or

b) “Validate for Ready successful” if the Validate for READY action was invoked.

Note: The AUP is not saved nor promoted by the validate process.

If the validation process identifies only warnings, a Warning window is displayed listing all the warnings detected. Note, the AUP is not saved nor promoted by the validate process.

If the validation process identifies errors, an Error window is displayed listing all the errors and warnings detected. Note, the AUP is not saved nor promoted by the validate process.
7.4.6.5. **Save Action**

The Save action is only available when the AUP status is INTENT or DRAFT. In all other cases, the Save action is greyed-out (i.e. not accessible).

Upon invoking the Save action, if no changes were made to the message since the last Promote, Demote or Save action, the user is asked via a Confirmation window whether he/she wishes to start saving anyway or whether to cancel the Save action.

Upon invoking the Save action, the AUP is validated (see Validation rules described in section 7 AUP Validation Rules) for the current AUP status.

If the automatic validation process is successful without any errors or warnings, the AUP is saved in the system and the status bar displays “Save successful”.

If the automatic validation process identifies only warnings:

a) The AUP is saved in the system.

b) The status bar displays “Save successful but with warnings”, and

c) A **Warning** window is displayed listing all the warnings detected.

If the automatic validation process identifies errors,

a) The status bar displays “Save not performed”, and

b) An **Error** window is displayed listing all the errors and warnings detected.

In this case, the AUP is not saved in the system.

7.4.6.6. **Delete Action**

The Delete action is only available in the edit mode of the window for AUPs whose status is either INTENT or DRAFT. In all other cases, the Delete action is greyed-out (i.e. not accessible).

Upon invoking the Delete action, the user is asked via a Confirmation window to confirm the delete request.

Upon confirmation of the Delete action, the AUP is deleted from the system.

7.4.6.7. **Cleanup Action**

The Cleanup action is only available in the edit mode of the window for AUPs whose status is either INTENT or DRAFT. In all other cases, the Cleanup action is greyed-out (i.e. not accessible).

Upon invoking the Cleanup action, the user is asked via a Confirmation window to confirm the cleanup request.

Upon confirmation of the Cleanup action, all the RSA allocations and CDR updates are removed from the AUP.

The empty AUP stays in edit mode for further editing.
7.4.6.8. **Refresh Action**

Upon invoking the Refresh action, the data are re-loaded from the system.

7.4.6.9. **Import Action**

The Import action is only available in the edit mode of the window for AUPs in the INTENT status or UUPs in the DRAFT status. In all other cases, the Import action is greyed-out (i.e. not accessible).

Upon invoking the Import action, the Import File window is opened – see Section 14.

7.4.6.10. **Export Action**

Upon invoking the Export action, if any changes were made to the AUP since opening it or since the last successful Promote, Demote or Save action, the user is informed via an Information window to perform a Promote, Demote or Save action on the AUP and the Export action is cancelled.

Upon invoking the Export action, if no changes were made to the AUP since opening it or since the last successful Promote, Demote or Save action, the Export File window is opened – See section 19.

7.4.6.11. **Export As FMP Action**

This behaves in the same way as the Export Action (see 7.4.6.10), except that now the AUP is exported as it is displayed in the overview tab. The RSA Allocations and the merged CDR updates as in the overview tab are exported into the same format as the normal export.

7.4.6.12. **Print Preview Action**

The Print Preview action is only available for AUPs in the DRAFT, READY or RELEASED status. In all other cases, the Print Preview action is greyed-out (i.e. not accessible).

Upon invoking the Print Preview action, if any changes were made to the AUP since opening it or since the last successful Promote, Demote or Save action, the user is informed via an Information window to perform a Promote, Demote or Save action on the AUP and the Print Preview action is cancelled.

Upon invoking the Print Preview action, if no changes were made to the AUP since opening it or since the last successful Promote, Demote or Save action, the Print Preview window is opened – see Section 25.

7.4.6.13. **Print Action**

The Print action is only available for AUPs in the DRAFT, READY or RELEASED status. In all other cases, the Print action is greyed-out (i.e. not accessible).

Upon invoking the Print action, if any changes were made to the AUP since opening it or since the last successful Promote, Demote or Save action, the user is informed via an Information window to perform a Promote, Demote or Save action on the AUP and the Print action is cancelled.

Upon invoking the Print action, if no changes were made to the AUP since opening it or since the last successful Promote, Demote or Save action, the Print window is opened – see Section 26.
7.4.6.14. Compare with Predecessor Action

The Compare with Predecessor action is only available for UUPs.

Upon invoking the Compare with Predecessor action, the Compare UUP window is opened – see Section 15.

7.4.6.15. Plot Action

Upon invoking the Plot action, the Map window is opened and the AUP is plotted on the Map.

7.4.7. To Close the Window

Click on the close decoration of the window.

Upon invoking the Close action, if no changes were made to the AUP since opening it or since the last successful Promote, Demote or Save action, the AUP window is closed.

Upon invoking the Close action, if any changes were made to the AUP since opening it or since the last successful Promote, Demote or Save action, the user is asked via a Confirmation window whether he/she wishes to save the changes or not prior to closing the window or whether to cancel the Close action.

Upon confirmation of the Close action without saving the changes, the Confirmation and the AUP windows are closed. All changes made since opening of the window or since the last successful Promote, Demote or Save action are lost.

Upon cancellation of the Close action, only the Confirmation window is closed.

Upon confirmation of the Close action with saving the changes, the Confirmation window is closed, and an automatic save action is initiated.

For an AUP in the INTENT status, the automatic save action shall store the AUP in the system without performing any validation checks and close the AUP window.

For an AUP in the DRAFT status, the automatic save action shall initiate an automatic validation (see Validation rules described in Section 7 AUP Validation Rules).

If the automatic validation process is successful without any errors or warnings,

a) The AUP is saved in the system, and

b) The AUP window is closed.

If the automatic validation process identifies only warnings:

a) A Warning window is displayed informing of all the warnings detected, and

b) The AUP is saved in the system.

On acknowledgement of the Warning window, the Warning and the AUP windows are closed.

If the validation process identifies errors, an Error window is displayed informing of all the errors detected. In this case, the AUP is not saved in the system.

On acknowledgement of the Error window, only the Error window is closed (the AUP window remains open).
8. **GOTO ROUTE STATEMENT WINDOW**

8.1. **Function Presentation**

The **Goto Route Statement** window allows the user to navigate from a merged CDR statement in the “Overview” tab of the AUP window to the desired CDR entry of the AUP.

8.2. **Opening the Window**

From the AUP window click the “Goto” button above the Merged CDRs list in the Overview tab, when available. If the selected route statement has been merged from multiple CDR statements, the Goto Route Statement window is opened.

![Goto Route Statement Window](image)

**Figure 8-1** Goto Route Statement Window

The Goto Route Statement window lists all the CDRs (including NOT OPENED CDR2s) that have been merged to display the final merged CDR statement in the “Overview” tab of an AUP window.

The list definition is the same as the CDR Expansion list definition in the “RSAs” tab of the AUP window - see para 7.4.2.3.1 – with:

a) The addition of an “RSA Id” column between “FIR/UIR” column and “Remark” column and

b) The removal of “EXCL” and “Confirmed” columns.

On invoking the Goto Route Statement window, the “Goto” button is greyed-out (i.e. not accessible).

The foreground colour of an unselected field of the route statement in the Goto Route Statement window is displayed in:

a) CHMI / FUA application / General / List / ATS and CDR1 text colour when “CDR Type” is “ATS” or “CDR1”.

b) CHMI / FUA application / General / List / CDR2 text colour when “CDR Type” is “CDR2” and “Remark” is set to other than “NOT OPENED”.

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c) CHMI / FUA application / General / List / NOT OPENED text colour when “CDR Type” is “CDR2” and “Remark” is set to “NOT OPENED”.

The Goto Route Statement window is a modal dialogue box, it means that whilst this window is open no other functions can be invoked.

8.3. **User Interactions**

8.3.1. **Selection**

By default, none of the route statements are selected.

To set or change the currently selected route statement(s), click on any field of the desired route statement.

In the selected state, ATS and CDR1 route statements are displayed with its foreground text colour set to CHMI / FUA application / General / List / Default cell colour and its background colour set to CHMI / FUA application / General / List / ATS and CDR1 text colour.

In the selected state, openings of CDR2 route statements are displayed with its foreground text colour set to CHMI / FUA application / General / List / Default cell colour and its background colour set to CHMI / FUA application / General / List / CDR2 text colour.

In the selected state, NOT OPENED CDR2 route statements are displayed with its foreground text colour set to CHMI / FUA application / General / List / Default cell colour and its background colour set to CHMI / FUA application / General / List / NOT OPENED text colour.

8.3.2. **Deselection**

To deselect a currently selected route statement, ctrl click on any of its field.

8.3.3. **Sort**

As for para 7.4.2.3.7.

8.3.4. **“Goto” Button**

The “Goto” button is only available when a route statement has been selected.

Upon invoking the “Goto” button:

a) The Goto Route Statement window is closed.

b) The focus is given to the AUP window.
c) The tab view of the AUP window is automatically changed to the “RSAs” or “Manual CDRs” tab view containing the route statement selected in the Goto Route Statement window.

d) The selected route statement in the “RSAs” or “Manual CDRs” tab view is set to be the same as the route statement selected in the Goto Route Statement window.

e) The CDR Expansion list or the Manual CDRs list is automatically scrolled such that the selected route statement is visible.

f) If the tab view is changed to the “RSAs” tab view:
   - The area allocation statement which the selected CDR is linked to is set to be the selected area allocation statement.
   - The RSA Allocation list is automatically scrolled such that the selected area allocation statement is visible in the list.
   - The area availability statement which the selected area allocation statement is linked to is set to be the selected area availability statement, and
   - The RSA Availability list is automatically scrolled such that the selected area availability statement is visible in the list.

8.3.5. “Cancel” Button

Click on Cancel button at any time. The Goto Route Statement window is closed.
9. SELECT AREA WINDOW

9.1. Function Presentation

The Select Area window is used to select a manageable area from a list of manageable areas and groups of manageable areas.

9.2. Opening the Window

From the Repetitive RSAs/CDRs window click the “Add” area editing button.

If the Select Area window was invoked from the Repetitive RSAs/CDRs window, the Select Area window displays:

a) The date and time of the last area extraction from ENV for the AMC.

b) A list of manageable areas and groups of manageable areas that the AMC is responsible for.

For each area in the Select Area window, it displays:

a) “CAT” (AUP category).

b) “RSA Id” (area identification).

c) “MNOM FL” (minimum flight level).

d) “MAX FL” (maximum flight level).

e) “WEF” (start time).

f) “TIL” (end time).

g) “FIR/UIR”.

Figure 9-1 Select Area Window
On invoking the Select Area window,

a) The RSA filtering checkboxes (labelled “AMA”, “NAM” and “RCA”) are all checked.

b) The “Select…” button is greyed-out (i.e. not accessible).

The Select Area window is a modal dialogue box, it means that whilst this window is open no other functions can be invoked.

9.3. User Interaction

9.3.1. To Select an Area

Click on the desired area. The desired area is shown as selected and if the “Select” button was greyed-out, it becomes accessible.

Click on “Select” button. The Select Area window is closed and the Edit Repetitive Area Statement window is automatically opened.

9.3.2. Filtering

Checking/unchecking an RSA filter checkbox includes/removes respectively the area allocation statements of the corresponding category from the list.

9.3.3. To Update the Area Data held Locally

Click on “Extract Areas From ENV” button.

Upon successful extraction of manageable areas from ENV for the AMC, the locally held manageable area data, the date and time of the last manageable area extraction and the list of manageable areas presented in the Select Area window are updated.

Upon an unsuccessful extraction of manageable areas from ENV for the AMC, the user is informed that the extraction was not successful and the locally held manageable area data and the date and time of the last manageable area extraction remain unchanged.

9.3.4. To Close the Window

Click on Cancel button at any time. The Select Area window is closed.
10. EDIT AREA STATEMENT WINDOW

10.1. Function Presentation

The Edit Area Statement window is used to edit an area statement entry of an AUP.

10.2. Opening the Window

From the Select Area window:

a) Select an available area.

b) Click the “Select” button.

From the AUP window click the “Allocate” button.

From the AUP window click the “Edit” or the “Duplicate” area editing button.

For an explanation of the various fields of an area statement, see para 7.4.2.2 of the AUP window. Note, the area statement in the Edit Area Statement window does not have a “Confirmed” field.

On invoking the Edit Area Statement window via the Select Area window, the area statement fields of the window are set to the availability data of the selected area in the Select Area window.

On invoking the Edit Area Statement window via the “Allocate”, “Edit” or the “Duplicate” button from the AUP window,

a) The area statement fields of the window are set to the corresponding values of the selected area statement in the AUP window.

b) The “Ok” button is greyed-out (i.e. not accessible).

The Edit Area Statement window is a modal dialogue box, it means that whilst this window is open no other functions can be invoked.
10.3. User Interactions

10.3.1. Area Statement Fields

The user can edit the “MNM FL” field – it is constrained to allow exactly 3 digits. On input of 000, the input shall be displayed as “GND” for Ground. Input of “MNM FL” below the area’s minimum available flight level is not permitted – this is probably best left to validation check in case there are multiple area availabilities with differing level bands.

The user can edit the “MAX FL” field – it is constrained to allow exactly 3 digits. On input of 999, the input shall be displayed as “UNL” for Unlimited. Input of “MAX FL” above the area’s maximum available flight level is not permitted – this is probably best left to validation check in case there are multiple area availabilities with differing level bands.

The user can edit the “WEF” time field – it is constrained to allow entry of exactly 4 digits corresponding to a valid time. The “:” is inserted automatically. Input of “WEF” time earlier than the area’s available start date and time is not permitted – this is probably best left to validation check in case there are multiple area availabilities with differing time bands.

The user can edit the “TIL” time field – it is constrained to allow entry of exactly 4 digits corresponding to a valid time. The “:” is inserted automatically. Input of “TIL” time later than the area’s available end date and time is not permitted – this is probably best left to validation check in case there are multiple area availabilities with differing time bands.

The user can edit the “Resp Unit” field – it is constrained to allow a maximum of only 12 alphanumeric. In addition to allowing the user to directly edit the field, a pulldown menu gives access to the last 20 (twenty) “Resp Unit” entered.

The user can edit the “Remark” field – it is constrained to allow a maximum of 128 characters.

All other fields of an area statement in the Edit Area Statement window are not editable by the user:

a) CAT

b) RSA ID

c) FIR/UIR

10.3.2. To Commit the Changes

If the Edit Area Statement window was invoked upon an “Edit” or “Duplicate” area statement request from the AUP window, the “Ok” button is only made accessible after a modification to any of the accessible fields.

When the “Ok” button is accessible and all the necessary modifications have been entered, click “Ok” button.

If the “MAX FL” had been set to be equal to or to be below the “MNM FL” the user is informed via an Error window to make the necessary change.

If the “WEF” time had been set to be after the “TIL” time (taking into account possible date change) the user is informed via an Error window to make the necessary change.
Upon click on the “Ok” button, if there are no errors arising from (3) and (4), the Edit Area Statement window is closed and the area statement is added/modified in the RSA Allocation list of the AUP window.

10.3.3. To Cancel the Edit

Click on Cancel button at any time. The Edit Area Statement window is closed and all inputs made into that window are discarded.
11. SELECT ROUTE WINDOW

11.1. Function Presentation

The Select Route window is used to select a route portion from a list of conditional route portions that the AMC is responsible for.

11.2. Opening the Window

From the AUP window click the “Add” route editing button.

Dev Note: If the system response is fast enough, on invoking the Select Route window from the AUP window, a system call to retrieve all the route portions manageable by the AMC for the validity period of the AUP needs to be made. The response will then help populate the pulldown menus of the window. If the response is not fast enough, the window is populated from the locally held data.

From the Repetitive RSAs/CDRs window click the “Add” route editing button.

Dev Note: If the system response is fast enough, on invoking the Select Route window from the Repetitive RSAs/CDRs window, a system call to retrieve all the route portions manageable by the AMC needs to be made. The response will then help populate the pulldown menus of the window. If the response is not fast enough, the window is populated from the locally held data.

If the Select Route window is invoked from the AUP window, the Select Route window displays the date and time of the last route extraction from ENV for the AMC and the validity period of the AUP being edited.

If the Select Route window is invoked from the Repetitive RSAs/CDRs window, the Select Route window displays the date and time of the last route extraction from ENV for the AMC.

On invoking the Select Route window,

a) The “Extract Routes from ENV” button is accessible.

b) The “Open” Type items is pre-selected.

c) the “Route” field is blank and accessible.

d) “Retrieve” button is greyed-out (i.e. not accessible).
The **Select Route** window is a modal dialogue box, it means that whilst this window is open no other functions can be invoked.

### 11.3. User Interaction

Select another CDR “Type”. The “Route” field is blanked, if not already so, and accessible.

Select a “Route” from the pulldown menu.

- **a)** If the **Select Route** window is invoked from the **AUP** window, the route pulldown menu lists all the routes for which the AMC is responsible for and that has at least one portion that is of the selected CDR type for the validity period of the AUP being edited. The AMC is responsible for all route portions that cross the national airspace or that serve as Nearby, Offload or Crossing for any of the RSAs under the responsibility of the AMC.

- **b)** If the **Select Route** window is invoked from the **Repetitive RSAs/CDRs** window, the route pulldown menu lists all the routes for which the AMC is responsible for and that has at least one portion that is of the selected CDR type. The AMC is responsible for all route portions that cross the national airspace or that serve as Nearby, Offload or Crossing for any of the RSAs under the responsibility of the AMC.

- **c)** The pulldown menu supports quick navigation via the keyboard (i.e. automatic scrolling of the list according to keystrokes).

- **d)** The “Retrieve” button becomes accessible.

Click on “Retrieve” button when the desired “Type” and “Route” have been selected. The **Select Route** window is closed and the **Select CDR** window is opened – see Section 12.

### 11.3.1. To Update the Route Data held Locally

Click on “Extract Routes From ENV” button.

If the Select Route window is invoked from the AUP window, upon successful extraction of routes from ENV for the AMC and the validity period of the AUP being edited, the locally held route data, the date and time of the last route extraction and the window is reset as if it was just opened (i.e. reset to default state).

If the Select Route window is invoked from the Repetitive RSAs/CDRs window, upon successful extraction of routes from ENV for the AMC, the locally held route data, the date and time of the last route extraction and the window is reset as if it was just opened (i.e. reset to default state).

Upon an unsuccessful extraction of routes from ENV for the AMC, the user is informed that the extraction was not successful and the locally held route data and the date and time of the last route extraction remain unchanged.

### 11.3.2. To Close the Window

Click on **Cancel** button at any time. The **Select Route** window is closed.
12. SELECT CDR WINDOW

12.1. Function Presentation

The Select CDR window is used to select conditional routes from a list of conditional routes for the route selected in the Select Route window.

12.2. Opening the Window

From the Select Route window click the “Retrieve” editing button.

**Development Note:** On invoking the Select CDR window for an AUP, a system call to retrieve all the route portions manageable by the AMC for the validity period of the AUP needs to be made. If the Select CDR window is opened possibly for an entry into the repetitive RSA/CDR list, a system call to retrieve all the route portions manageable by the AMC needs to be made on invoking. The response will then help populate the window.

![Select CDR Window](image)

**Figure 12-1 Select CDR Window**

On invoking the Select CDR window,

a) The “Route” selected in the Select Route window is displayed as static text,

b) The CDR list displays all available conditional route portions of the selected type, colour coded according to the CDR type, for the selected “Route” between the first and the last point of the route that the AMC is responsible for.

The CDR list is further filtered to display only the conditional routes for the validity period of the AUP being edited if the invoking Select Route window was invoked from the AUP window (i.e. in the process of adding a CDR statement to an AUP).

a) The CDR list is ordered according to “From Point”, “MNFL” “MAX FL” and “WEF” (the “WEF” time takes into account the date as well as the time even though the date is not displayed).
b) None of the conditional route segments (entries) are selected.

c) The “Show all segments” checkbox is unchecked.

d) “Select” button is greyed-out (i.e. not accessible).

The Select CDR window is a modal dialogue box, it means that whilst this window is open no other functions can be invoked.

12.3. User Interaction

12.3.1. To Select/de-select a Conditional Route

Click on any field of a conditional route segment (entry). The selection state (selected/not selected) of the conditional route segment entry is toggled (selected conditional route are shown in reverse video).

When a conditional route is selected, the “Select” button is made accessible.

12.3.2. To Show all Segments

Toggle the check state of the “Show all segments” checkbox. When checked, the CDR list shows ATS routes, CDR1s and CDR2s regardless of the type (Open or Closure) selected in the Select Route window. However, only the conditional route segment corresponding to the type (Open or Closure) selected in the Select Route window are selectable, the other type(s) are shown in non-selectable state (greyed-out like).

12.3.3. To Insert Selected Conditional Route to the AUP

Click on “Select” button, when available. The Select CDR window is automatically closed and:

a) If the Select CDR window was invoked to amend an AUP, the Edit Route Statement window is automatically opened, otherwise.

b) If the Select CDR window was invoked to update the list of repetitive CDRs, the Edit Repetitive Route Statement window is automatically opened.

12.3.4. To Close the Window

Click on Cancel button at any time. The Select CDR window is closed.
13. **EDIT ROUTE STATEMENT WINDOW**

13.1. **Function Presentation**

The **Edit Route Statement** window is used to edit a route statement entry of an AUP.

13.2. **Opening the Window**

From the Select CDR window click “Select” button when accessible (note, the Select Route window is automatically opened after clicking the “Add” route editing button in the AUP window which then automatically leads to the Select CDR window).

From the AUP window click the “Edit” or the “Duplicate” route editing button.

![Figure 13-1 Edit Route Statement Window](image)

For an explanation of the various fields of a route statement, see section 7.4.2.3 of the AUP window. Note, the route statement in the Edit Route Statement window does not have an “EXCL” nor “Confirmed” field.

On invoking the Edit Route Statement window via the Select CDR window, the route statement fields of the window are set to:

a) The availability data of the selected route in the Select CDR window if a single conditional route was selected in that window, otherwise

b) The collapsed availability data of the selected routes in the Select CDR window. Collapsing means that an entry starting at the point where another entry ends are grouped into one (multiple selections of conditional routes are only permitted when they have the same minimum and maximum flight level and the same validity period and either the starting point or the ending point continues on from another selected conditional route).

On invoking the Edit Route Statement window via the “Edit” or the “Duplicate” route editing button:

a) The route statement fields of the window are set to the corresponding values of the selected route statement in the AUP window.

b) The “Ok” button is greyed-out (i.e. not accessible).

The foreground colour of an unselected field of the route statement in the Edit Route Statement window is displayed in:

a) CHMI / FUA application / General / List / ATS and CDR1 text colour when “CDR Type” is “ATS” or “CDR1”.
b) CHMI / FUA application / General / List / CDR2 text colour when “CDR Type” is “CDR2”.

The Edit Route Statement window is a modal dialogue box, it means that whilst this window is open no other functions can be invoked.

13.3. User Interactions
13.3.1. Route Statement Fields

The user can edit the “MNM FL” field – it is constrained to allow exactly 3 digits. On input of 000, the input shall be displayed as “GND” for Ground. For ATS routes and CDR1s, the input of “MNM FL” is constrained to be less than or equal to the minimum available flight level (i.e. widen the availability). For CDR2s, the input of “MNM FL” is constrained to be greater than or equal to the minimum available flight level (i.e. narrow the availability) – this is probably best left to validation check in case there are multiple CDR availabilities with differing level bands.

The user can edit the “MAX FL” field – it is constrained to allow exactly 3 digits. On input of 999, the input shall be displayed as “UNL” for Unlimited. For ATS routes and CDR1s, the input of “MAX FL” is constrained to be greater than or equal to the maximum available flight level (i.e. widen the availability). For CDR2s, the input of “MAX FL” is constrained to be less than or equal to the maximum available flight level (i.e. narrow the availability) – this is probably best left to validation check in case there are multiple CDR availabilities with differing level bands.

The user can edit the “WEF” time field – it is constrained to allow entry of exactly 4 digits corresponding to a valid time. The “:” is inserted automatically. For ATS routes and CDR1s, the input of “WEF” time is constrained to be before or equal to the availability start time (i.e. widen the availability). For CDR2s, the input of “WEF” time is constrained to be after or equal to the availability start time (i.e. narrow the availability) – this is probably best left to validation check in case there are multiple CDR availabilities with differing time bands.

The user can edit the “TIL” time field – it is constrained to allow entry of exactly 4 digits corresponding to a valid time. The “:” is inserted automatically. For ATS routes and CDR1s, the input of “TIL” time is constrained to be after or equal to the availability end time (i.e. widen the availability). For CDR2s, the input of “TIL” time is constrained to be before or equal to the availability end time (i.e. narrow the availability) – this is probably best left to validation check in case there are multiple CDR availabilities with differing time bands.

The user can edit the “Remark” field – it is constrained to allow a maximum of 128 characters.
All other fields of a route statement in the Edit Route Statement window are not editable by the user:

- **Type**
- **Route Id**
- **From Point**
- **To Point**
- **FIR/UIR**

### 13.3.2. To Commit the Changes

If the Edit Route Statement window was invoked upon an “Edit” or “Duplicate” route statement request from the AUP window, the “Ok” button is only made accessible after a modification to any of the accessible fields.

When the “Ok” button is accessible and all the necessary modifications have been entered, click “Ok” button.

If the “MAX FL” had been set to be equal to or to be below the “MNM FL” the user is informed via an Error window to make the necessary change.

If the “WEF” time had been set to be after the “TIL” time (taking into account possible date change) the user is informed via an Error window to make the necessary change.

May require to perform a validation check to ensure that entered level band and period are within the availability defined for the CDR in ENV/AIRAC(s) since this would be difficult to catch at input stage especially when there may be multiple availabilities. Alternatively, this check could be left until AUP validation.

Upon click on the “Ok” button, if there are no errors arising from (3) and (4), the Edit Route Statement window is closed and the route statement is added/modified in the CDR list of the AUP window from which the Edit Route Statement window was invoked.

### 13.3.3. To Cancel the Edit

Click on Cancel button at any time. The Edit Route Statement window is closed and all inputs made into that window are discarded.
14. **NIL AUP CREATION WINDOW**

14.1. **Function Presentation**

The NIL AUP Creation window allows to add additional information to a NIL AUP.

14.2. **Opening the Window**

From the New AUP window, select "NIL AUP" and click on Create button.

![Nil AUP Creation Window](image)

Figure 14-1  Nil AUP Creation Window

The NIL AUP Creation window displays the Remark field and the Note field.

14.3. **User Interactions**

The user can enter additional information in the Remark field, after the pre-filled "NIL AUP - " text.

The user can enter additional information in the free text Note field.

The View Note field/Hide Note field button allows to toggle between displaying and hiding the Note field.

Click on the Create button to create the NIL AUP in status Ready.
15. COMPARE UUP WINDOW

15.1. Function Presentation

The Compare UUP window allows to compare a UUP with its predecessor AUP/UUP.

15.2. Opening the Window

From the Select AUP window, select a UUP and then click on Compare with Predecessor action from the contextual menu (accessed by clicking on the right mouse button).

![Compare UUP Window](image)

**Figure 15-1** Compare UUP Window

The Compare UUP window is split in a left and a right part.

a) The right part contains information on the selected UUP.
b) The left part contains information on the Predecessor AUP or UUP.

The Compare UUP window contains two tabs:

a) RSA Allocations and CDR Updates.

15.3. User Interactions

The user has the choice of displaying the full AUP/UUP contents or to display only the differences.

The check boxes allow to toggle between "show all" and "show differences only".

a) To toggle a single entry: select an individual CDR or RSA id.
b) To toggle all entries: select the check box in the column header for the Route id or the RSA id.

The Compare UUP window supports a contextual menu (accessed by clicking on the right mouse button) that contains the following 2 actions:

a) Show Predecessor AUP or UUP.
b) Edit Compared UUP.
16. SET NEXT UUP TIME WINDOW

16.1. Function Presentation

The Set Next UUP Time window allows to set the validity start time for the next UUP.

16.2. Opening the Window

From the Main menu: Application / FUA, select the Set Next UUP Time option.

![Set Next UUP Time Window](image)

16.2.1. User Interactions

Adjust the From date (WEF) to the required date. The From date (WEF) can be set to the date of the current AUP or the next AUP.

The From Time is not accessible by the user. It displays CHMI / FUA application / General / Query / Default AUP From and Until time.

The Until date (TIL) is not accessible by the user. However, as the From date (WEF) is adjusted by the user, the Until date (TIL) is automatically changed to be From date (WEF) + 1.

The Until time (WEF) is not accessible by the user. It displays CHMI / FUA application / General / Query / Default AUP From and Until time.

If a time value is displayed for Next UUP Time for the selected day, this means that the Next UUP start time is already set.

In some situations (e.g. when there is no UUP created yet for this time), it is possible to alter the Next UUP start time.
The system will validate and return an error if altering the Next UUP start time is not allowed.

If no time value is displayed for Next UUP Time for the selected day, this means that the Next UUP start time is currently not set. In this situation, it is impossible to create any UUP.

The user can now enter a value for the Next UUP start time.

The system will validate and return an error if an invalid time is entered.

The Next UUP Time for the selected day can be set by directly typing hours and minutes or by selecting from a drop down list.

The drop down list is configurable through CHMI Application Preferences:

a) CHMI / FUA application / UUP / Next UUP Times.
17. PUBLISH UUPS WINDOW

17.1. Function Presentation

The Publish UUPs window allows to publish UUPs that are in status READY.

17.2. Opening the Window

From the Main menu: Application / FUA, select the Publish UUPs option. If the Next Uup Time is not set for the current AUP, the system returns an error message. If the Next Uup Time is defined for the selected date, the list of non-RELEASED UUPS for the Next UUP Time is displayed.

17.3. User Interactions

For each UUP, the list of non-RELEASED UUPs displays:

a) AMC Id: This displays the AMC identification of the AUP creator.

b) Status: AUP status (“INTENT”, “DRAFT”, “READY” or “RELEASED”).

c) Remark: Any additional AUP remarks.

If all UUPs in the list are in status READY, they can be published by clicking on the Publish button.

Click on Close to quit the publish window. The Publish UUPs window is closed.

Figure 17-1 Publish UUPs Window
18. **IMPORT FILE WINDOW**

18.1. **Function Presentation**

This function will allow the import of an AUP from text files.

18.2. **Opening the Window**

From the AUP window, click on Import action when accessible – see para 7.4.6.9.

![Import File Window](image)

**Figure 18-1 Import File Window**

The **Import File** window is a modal dialogue box, it means that whilst this window is open no other functions can be invoked.

18.3. **User Interactions**

18.3.1. **To Import a File**

The Import File window allows to navigate amongst the accessible drives and directories to locate the file to be imported.

Click on “Import” button when the file to import has been selected.

The import process of the selected file is modal, i.e. the user is unable to interact with the CHMI application during the import process.

At the end of the import process, user interaction with the CHMI application is restored and the Import File window is closed. Note, if not all the RSAs and/or the CDRs have been imported, a Warning window displaying all the RSAs and CDRs not imported from the file may be left open.
18.3.2. To Cancel the Import Action

Click on “Cancel” button. The Import File window is closed.

18.4. Import File Processing

18.4.1. The INDEX Section

The 1st line of the file to import shall be “[INDEX]”.

The 2nd line of the file to import shall be “NROWS=1”.

The 3rd line of the file shall start with “ROW1=“.

If (1), (2) or (3) are not satisfied, the user is presented with an Error window explaining that the file format is not recognised and is asked whether to select another file or to cancel the Import action.

If the message type in the file being imported is not set to “AUP”, the user is informed of this mismatch and is asked whether to ignore the message type in the file being imported or whether to cancel the Import action.

The resolution of seconds for time parameters in the INDEX section of the file being imported shall be ignored.

If the validity period of the AUP being imported does not match the validity period of the AUP being edited, the user is informed of this mismatch and is asked whether to ignore the validity period of the imported AUP or whether to cancel the Import action.

If the AMC identifier in the file being imported does not match the AMC identifier of the user, or in the case of a CADF user, the AMC identifier that the CADF is acting on behalf of, the user is informed of this mismatch. On acknowledgment of this message, the import action is cancelled.

18.4.2. The AREAS Section

The complete line of the file being imported representing an RSA that does not satisfy (1) shall be appended to a Warning window highlighting (possibly through bold text) whether the RSA id is not known by the system or whether the area availability is outside the system known availability of the area.

If the import file contains 1 or more RSAs, the system shall request the user to confirm whether automatic expansion of CDRs is required or not.

Note: This is independent of the CHMI / FUA application / AUP / Automatic expansion setting.
For each RSA in the file being imported that is added to the RSA Allocation list:

- **a)** Flight level “000” shall be displayed as “GND”.
- **b)** Flight level “999” shall be displayed as “UNL”, and
- **c)** The resolution of seconds for time parameters shall be ignored.
- **d)** The area type (“AMA”, “NAM”, “RCA”) shall be extracted from the system known values (i.e. the values contained in the file being imported are ignored).
- **e)** The list of FIR/UIR shall be extracted from the system known values (i.e. the values contained in the file being imported are ignored).

### 18.4.3. The ROUTES Section

An identified CDR in the file being imported shall only be added to the Manual CDRs list of the AUP being edited if all of the following are satisfied:

- **a)** The RSA association link type is set to “U”.

The complete line of the file being imported representing a CDR that does not satisfy (1) shall be appended to a Warning window highlighting (possibly through bold text) whether the route id and portion is not known by the system or whether the route availability is outside the system known availability of the route or whether the RSA association link type is other than “U”.

For each CDR in the file being imported that is added to the Manual CDR list:

- **a)** Flight level “000” shall be displayed as “GND”.
- **b)** Flight level “999” shall be displayed as “UNL”.
- **c)** The resolution of seconds for time parameters shall be ignored.
- **d)** The list of FIR/UIR and the CDR type shall be extracted from the system known values (i.e. the values contained in the file being imported are ignored).
19. EXPORT DATA WINDOW

19.1. Function Presentation

This function allows the AUP to be exported to a text file.

19.2. Opening the Window

From the AUP window, click on Export action when accessible – see para 7.4.6.10.

![Figure 19-1 Export Data Window]

The Export Data window is a modal dialogue box, it means that whilst this window is open no other functions can be invoked.

19.3. User Interactions

19.3.1. To Export an AUP

The Export Data window requires the location (drive and directory) and the file name in which the exported data will be stored.

Click on “Export” button when a file name is selected.

If the file already exists, the user is asked via a Confirmation window whether to replace the old file or not.

If insufficient disk space or insufficient user privilege (e.g. no write access to the drive/directory), the user is informed to choose another location.
The export process is modal, i.e. the user is unable to interact with the CHMI application during the export process.

During the export process, the following translations shall be applied:

a) The seconds resolution of all time parameters shall be exported as “00”.

b) In the INDEX section, the “datetime that the AUP was sent to AME” field shall be left blank.

c) “AMA” area types shall be exported as “TSA”.

d) “NAM” area types shall be exported as “RAR”.

e) Displayed flight level “GND” shall be exported as “000”.

f) Displayed flight level “UNL” shall be exported as “999”.

At the end of the export process, user interaction with the CHMI application is restored and the Export Data window is closed.

19.3.2. To Cancel the Export Action

Click on “Cancel” button. The Export Data window is closed.
AIRSPACE STATUS MONITOR WINDOW

Function Presentation

For the selected AMCs or FMPs, date and time period, the Airspace Status Monitor graph displays the RSAs availabilities and allocation.

Opening the Window

From the Application / FUA menu, select the ASM Monitor option.

By default, the From (WEF) and Until (TIL) dates are set to TOMORROW and TOMORROW + 1 respectively (i.e. 1 and 2 days later respectively than the current day of operations).

The time from system property “CHMI / FUA application / General / Query / Default AUP From and Until time” (i.e. 06:00) is appended to each date to facilitate user understanding. (Dev Note: In practice, the time stored in the hidden system property “CHMI / FUA application / General / Query / Default AUP From and Until time” (i.e. 06:00) will be used to identify the list of RSA allocation lines to be displayed: WEF= concat (From date,"0600") TIL= concat(Until date,"0600") ).

For AMC users:

a) The “AMC / FMP selection” box allows the user to choose one from 4 possible selections:
   - <own AMC Id> where <own AMC Id> is displayed as the actual AMC identification of the user e.g. “EHCMZAMC”.

Figure 20-1  Query Airspace Status Monitor Window
• “All AMCs”.
• “Selected AMCs”.
• “Selected FMPs”.

b) By default, the <own AMC Id> is selected.

For FMP users:

a) The “AMC / FMP selection” box allows the user to choose one from 4 possible selections:
   • <own FMP Id> where <own FMP Id> is displayed as the actual FMP identification of the user e.g. “FMPEBBU”.
   • “All AMCs”.
   • “Selected AMCs”.
   • “Selected FMPs”.

b) By default, the <own FMP Id> is selected.

For non-AMC and non-FMP users:

a) The “AMC / FMP selection” box allows the user to choose between 3 possible selections:
   • “All AMCs”.
   • “Selected AMCs”.
   • “Selected FMPs”.

b) By default, “Selected AMCs” is selected.

The “Selected AMC(s)” list is filled in with the last updated list maintained using the AMCs Selection window – see Section 6.

AMCs are checked in the “Selected AMC(s)” list based on the last query issued that used AMC selection.

When “Selected AMCs” is selected and no AMCs have been selected yet using the AMCs Selection window (this is the case after application installation):

a) A message box will warn you and invite you to select first one or more AMCs.

b) On clicking OK, the AMCs Selection window, see Section 6, is opened automatically.

c) After adding one or more AMCs to the “Selected list” of the AMCs Selection window, click on the OK button.

d) This will close the AMCs Selection window and update the ”Selected list” on the calling window.
The “Selected FMP(s)” list is filled in with the last updated list maintained using the FMPs Selection window – see Section 21.

FMPs are checked in the “Selected FMP(s)” list based on the last query issued that used FMP selection.

When “Selected FMPs” is selected and no FMPs have been selected yet using the FMP Selection window (this is the case after application installation):

a) A message box will warn you and invite you to select first one or more FMPs.

b) On clicking OK, the FMPs Selection window, see section 21, is opened automatically.

c) After adding one or more FMPs to the “Selected list” of the FMP Selection window, click on the OK button.

d) This will close the FMP Selection window and update the “Selected list” on the calling window.

On initial Airspace Status Monitor query preparation, the focus is set on the From date.

After this, it is moved logically between the query controls in position sequence (left to right and then top to bottom).

The Airspace Status Monitor window is a modeless dialogue box. It means that multiple instances of the window can exist. Also, whilst this window is open other functions can be invoked.

20.3. Preparing to Query

20.3.1. To Change the Period

The From date may be adjusted by the user.

The Until date (TIL) is automatically changed to be the day after the From date (WEF).

20.3.2. To Change the AMC / FMP Selection

To change the AMC / FMP selection, click on any one of the possible options in the “AMC / FMP Selection” box.

The “Selected AMC(s)” list is only shown when the AMC selection is set to “Selected AMCs”. In all other cases, the “Selected AMC(s)” list is hidden.

When the AMC selection is set to “Selected AMC(s)”:

a) Click on “All” button to check all AMCs present in the AMC list.

b) Click on “None” button to uncheck all the AMCs present in the AMC list.

c) Click on “Select” button to add/remove AMC(s) to/from the AMC list – this invokes the AMCs Selection window – see Section 6.

d) Click on the AMC list title to toggle the sort order between ascending and descending – this does not change the AMC list content nor the checked/unchecked state of any of the AMCs.

e) Check/uncheck an AMC Id in the AMC list to include/exclude the AMC in/out of the query as desired.
The “Selected FMP(s)” list is only shown when the AMC / FMP selection is set to “Selected FMPs”. In all other cases, the “Selected FMP(s)” list is hidden.

When the AMC / FMP selection is set to “Selected FMP(s)“:

a) Click on “All” button to check all FMPs present in the FMP list.

b) Click on “None” button to uncheck all the FMPs present in the FMP list.

c) Click on “Select” button to add/remove FMP(s) to/from the FMP list – this invokes the FMPs Selection window – see Section 21.

d) Click on the FMP list title to toggle the sort order between ascending and descending – this does not change the FMP list content nor the checked/unchecked state of any of the FMPs.

e) Check/uncheck an FMP Id in the FMP list to include/exclude the FMP in/out of the query as desired.

The Send button will send the query to the CFMU system.

Dev Note: This functionality is similar to the “Send” action described in ref [9] section 1.4.5

The Reset action common functionality is implemented for this function.

Dev Note: This functionality is similar to the “Reset” action described in ref [9] section 1.4.6.

The common functionalities Print and Export actions are implemented for this function.
Dev Note: This functionality is similar to the “Print / Export” action described ref [9] Section 1.4.11.

Change of any of the following query data elements are considered for activating the Reset action:

a) From date (WEF).

b) Selected option in the “AMC / FMP selection” box.

c) Checked state of an AMC Id in the AMC list.

d) Checked state of an FMP Id in the FMP list.
20.4. Displaying the Query Results

20.4.1. General

The title contains the time stamp when the information was retrieved from the CFMU system.

The left part of the window contains the different query data elements used to retrieve the displayed Airspace Status Monitor graph:

a) The period From (WEF) and Until (TIL) dates and times.

b) Indication of the AMC selection:
   - <own AMC Id> or <own FMP Id> when applicable;
   - “All AMCs”;
   - “Selected AMCs”.
   - “Selected FMPs”.

c) If the AMC / FMP selection was set to “Selected AMCs”, the AMC list is displayed with the checked indication for each AMC included in the query.

d) If the AMC / FMP selection was set to “Selected FMPs”, the FMP list is displayed with the checked indication for each FMP included in the query.

Figure 20-2  Airspace Status Monitor Window for Selected AMCs
At the bottom of the left part of the window, following tabs are available:

a) The **Query** tab groups all the query data elements described earlier.

b) The **Filter** tab displays the different RSA allocation categories with the currently associated colour.

A check box next to each category allows filtering out the corresponding lines in the graph. The line will not be displayed if all the colours present on that line have their category unchecked. In other words, if at least one category present on a line is checked, the line remains on display.

All check boxes are initially checked.

a) The **AMC** tab (respectively **FMP** tab when querying per FMP) displays the list of allocated RSAs within each queried AMC (respectively FMP).

A check box next to each AMC (respectively FMP) and allocated RSA allows to filter out the corresponding lines in the graph.

When an AMC (respectively FMP) is unchecked, all RSA allocation lines for that AMC (respectively FMP) are hidden in the graph.

When an allocated RSA is unchecked, only that RSA allocation line is hidden in the graph.

Just click on one of these tabs to display it.

Each AMC (respectively FMP when querying per FMP) is represented by a group of lines structured as described below:

a) The group is composed of RSA allocation lines.

b) If no RSAs related to the AMC (respectively FMP) have been allocated for the query period, no RSA allocation lines are displayed for that AMC (respectively FMP).

c) No RSA allocation lines are displayed in the Airspace Status Monitor:
If no RSA related to the AMC (respectively FMP) is allocated for the query period
Or if the corresponding AUP is still in INTENT status (not yet promoted to DRAFT)

a) RSA allocation lines are described in details in the next paragraph.

On query results display, the focus is set on the graph after selecting the first line in the list.

A vertical line indicates the current UTC time on the Airspace Status Monitor graph, if it is
included within the displayed query period.

The colour of this current UTC timeline is identified by the user adjustable preference CHMI / ATFCM
application / Traffic / Monitor / Graph / Current timeline colour.

When the Airspace Status Monitor content is plotted on the map, a vertical line with a globe at
the top indicates the time currently displayed on the map. This timeline is only drawn if the
map time is included within the displayed query period.

The colour of this map timeline is identified by the user adjustable preference CHMI / ATFCM
application / Traffic / Monitor / Graph / Map timeline colour.

20.4.2. RSA Allocation Lines

The graph shows only the RSAs that are allocated, either explicitly or implicitly, by the AUP(s)
covering the query period for the selected AMCs (respectively FMP).

For these allocated RSAs, the graph shows:

a) Availability and allocation period for RSAs of AUP category AMA or NAM.

b) Allocation period for RSAs of AUP category RCA.

Notes:

a) Explicitly allocated RSAs are those included in the corresponding AUP.

b) Implicitly allocated RSAs are NAMs that have an availability period during the AUP
period but are not mentioned in the corresponding AUP – by default, the entire
availability period of these NAMs are considered to be allocated.

The sequence of the RSA allocation lines per AMC (respectively FMP) corresponds to the one
received from the system, the user is unable to change this.

The first RSA allocation line displays a summary of all AMA and NAM RSA allocations (not the
availability) that have been either explicitly or implicitly reported by the AUP(s) of the
corresponding day(s).

Note: AMA and NAM RSA availabilities and RCA allocations are not included in the summary
line display.

This line begins with the AMC identifier (respectively FMP when querying per FMP) followed
by the keyword / RSAs (e.g.: "EHCMZAMC / RSAs"). This text is left justified.

Under this summary line, one line per RSA allocation is displayed.

The line related to an RSA allocation begins with the AUP category of the RSA (“AMA”, “NAM”
or “RCA”) and the RSA id separated by hyphen (example: “AMA – CBA1A”). This text is right
justified.
All text in front of an RSA allocation line is displayed in CHMI / FUA application / Airspace status monitor / RSA legend colour.

Dev note: this is a hidden system parameter currently set to green [0, 128, 0, 255].

Each line contains a horizontal bar coloured as follows:

a) **AMA-NAM availability colour**: for allocated RSAs of AUP category AMA or NAM, the availability period for allocation to military or special activity.

b) **AMA-NAM allocation colour**: for allocated RSAs of AUP category AMA or NAM, the period of allocation for military or special activity as inferred (implicit and explicit) in the AUP of the corresponding day. The **AMA-NAM allocation colour** takes precedence over **AMA-NAM availability colour** when they overlap.

The height of the **AMA-NAM allocation colour** bar is reduced if the entire flight level availability is not allocated.

a) **RCA allocation colour**: for allocated RSAs of AUP category RCA, the period of allocation for civil activity as published in the AUP of the corresponding day.

b) The different colours of each horizontal bar of RSA allocation line is associated to a user adjustable colour in the Preferences dialog.

c) **CHMI / FUA application / Airspace status monitor / AMA-NAM availability colour**.

d) **CHMI / FUA application / Airspace status monitor / AMA-NAM allocation colour**.

e) **CHMI / FUA application / Airspace status monitor / RCA allocation colour**.

If the RSA allocation lines are constructed from an AUP:

a) In DRAFT status, the horizontal bars are hatched in their respective colours.

b) In READY, **RELEASED** or **RELEASED_UPDATE (RELEASED for UUP)** status, the horizontal bars are plain in their respective colours.

RSA bars shall not be displayed when the corresponding AUP is still in INTENT state.

When an updated AUP (UUP) exists, the consolidated latest AUP/UUP status is displayed.

An updated AUP (UUP) is not taken into account as long as it is in status **DRAFT_UPDATE (DRAFT for UUP)** or **READY_UPDATE (READY for UUP)**.

### 20.5. User Interactions

Just click on one of the tabs (Query / Filter / AMC respectively Query / Filter / FMP) at the bottom of the left part to display its content.

Using the Query tab, this window allows to modify a previous query selection and to issue a new request.

On query modification, the Reset action is enabled.

To display / hide the query part, click respectively the Right / Left arrow at the top next to the split bar.
On the Filter tab, check or uncheck the different category boxes to display or not the corresponding bars on the graph. Dev Note: this entails showing 4 check boxes for RSA allocation lines: a global one labelled RSA and one for each of the 3 RSA colours.

A state bar will not be displayed on the graph if all the colours present on that bar have their categories unchecked.

When one or more colour categories are unchecked:

a) The keyword Filter is displayed in red at the top of the graph, next to the time scale and

b) The Filter tab text is displayed in red.

On the AMC tab (respectively FMP tab), check or uncheck the different AMC (respectively FMP) or RSA allocation boxes to display or not the corresponding bars on the graph.

The allocation state bar will not be displayed on the graph for the RSA unchecked on the AMC tab (respectively FMP tab).

The state bars for all RSAs of the unchecked AMC (respectively FMP) will not be displayed on the graph.

When one or more AMCs (respectively FMPs), or RSA allocations are unchecked on the AMC tab (respectively FMP tab):

a) The keyword AMC (respectively FMP) is displayed in red at the top of the graph, next to the time scale and

b) The AMC tab (respectively FMP tab) text is displayed in red.

To adjust the displayed map timeline, if present, just click on the globe at the top of the vertical line. Then hold the mouse button down while moving the mouse to the desired time. On release, the map will adjust automatically to the newly selected time. The initial click must happen on the globe, but to ease the selection, you may release the mouse button anywhere on the monitor graph.

To update the display, click on the Send button on the button bar or select the Action / Send menu option. This will issue exactly the same query to obtain an up to date list.

Filtering done on the Filter and the AMC (respectively FMP) tabs is kept over a data refresh.

A horizontal scroll bar enables the change of the displayed period when the full queried period is not visible at once.

Click on the "<=>" button to reduce the scope of the shown period.

Click on the "><" button to enlarge the scope of the shown period.

Click on the "R" button at the bottom right of the graph to Reset to the original scope of the shown period.

A vertical scrollbar gives the possibility to scroll in the list of AMCs and RSA allocations.

The list allows only single selection.
To print the Airspace Status Monitor graph, first filter the data in the window. When ready, click on the Print button or select the File / Print menu option.

To display the RSA allocation sub menu, click on one of the RSA allocation lines to select it and then click on the right button of the mouse.

Increasing / reducing the window height will impact the size of the AMC (respectively FMP) Selected list and the Airspace Status Monitor graph controls.

Increasing / reducing the window width will impact the size of the Airspace Status Monitor graph control.

To plot (Horizontal or Vertical) the displayed Airspace Status Monitor data, click on the Plot button(s) or select the Action / Plot menu.

In order to allow the Map to highlight geographically on the Horizontal and Vertical view the allocated RSAs, the data structure passed to the Map on a plot action must also contain the list of all RSAs presented in the Airspace Status Monitor display. For each RSA following info is passed:

- a) The RSA identifier.
- b) The AUP category of the RSA (AMA, NAM, RCA).
- c) The period of availability.
- d) The available flight levels during the period of availability.
- e) The allocated period.
- f) The allocated flight levels during the period of allocation.
20.6. Contextual Actions

20.6.1. AMC / FMP Sub Menu

When an AMC (respectively FMP) allocation summary line is selected (the text displayed in selected colour) in the list, the right mouse button pops up a contextual menu.

This popup menu lists the possible actions for the selected AMC (respectively FMP) and may contain the following options:

a) **Show AMC Description** (respectively **Show FMP Description**) to query the detailed data associated to the selected AMC (respectively FMP). This menu option allows a direct access to the relevant AMC (respectively FMP) data instead of querying the data via the Environment Query screen.

20.6.2. RSA Allocation Sub Menu

When an RSA allocation line is selected (the text displayed in selected colour) in the list, the right mouse button pops up a contextual menu.

This popup menu lists the possible actions for the selected RSA allocation and may contain the following options:

a) **Show RSA Description** to query the detailed data associated to the selected RSA. This menu option allows a direct access to the relevant RSA data instead of querying the data via the Environment Query screen.

b) **AUP for <lead_AMC_ID> <dd/mmyyyy>** to display the associated AUP/UUPs in the AUP window in the read-only state.

For the selected day.

And the lead AMC of the selected RSA line.
21. FMPS SELECTION WINDOW

21.1. Function Presentation

This display gives the list of available FMPs and allows maintaining a user-preferred list. This user preferred list will be proposed by default for the different queries when a Selected list of FMPs has to be presented. This user preferred list is stored in the preference file for later references.

21.2. Opening the Window

This modal dialog may be opened from the different functions where the query to the server system includes a list of FMPs. This is possible through the Airspace Status Monitor window. A click on the Select button in the Selected FMP(s) frame in one of the function listed above, will open the FMPS Selection window.

On opening the dialog, the list of available Units of type FMP is retrieved from the Environment server. The date to be used for the retrieval is the WEF date selected on the invoking window. It is displayed in the top left corner of the dialog. This Available list of FMPs is displayed on the left side of the dialog. The FMP Selected list is stored in the user preference CHMI / FUA application / General / Query / Selected FMP Identifiers.
This FMP Selected list, if any, is displayed on the right side of the dialog.

The focus sequence between the different controls starts from the Available list and the attached scroll bar, then it reaches the Selected FMP list and the attached scroll bar. Finally it goes on the different buttons: Right and Left arrows and then OK and Cancel.

There is no resizing allowed on this dialog.

21.3. User Interactions

This dialog allows adding and removing FMPs from the user Selected list, based on the retrieved FMP Available list.

FMPs stored previously in the Selected list may no more exist in the newly retrieved Available list. In such a case, a message box will prompt the user to ask if these erroneous FMP entries may be removed from the Selected list because this might lead to unsuccessful queries.

Select one or more FMPs from the Available list on the left side and click on the ">>" button to add them to the Selected list.

Multiple selection is possible by combining the mouse click with the <Ctrl> or the <Shift> keys. Duplicates, if any, are automatically suppressed.

Select one or more FMPs from the Selected list on the right side and click on the "<<" button to remove them from the current Selected list.

A double click on an FMP in either list will immediately request the transfer action.

When the Selected list is up to date, click on the OK button to save the list and come back to the previous window.

This will save the new preferred list in the user preference CHMI / FUA application / General / Query / Selected FMP Identifiers.

Following update rules will be applied on all opened windows using a Selected FMP(s) list for the query:

a) If the opened window has not yet processed a valid query / reply, newly added FMPs are inserted and checked in the Selected FMP(s) list. Deleted entries are removed from the Selected FMP(s) list independently from the current check state.

b) If a valid query / reply has already been processed, newly added AMCs are inserted unchecked in the Selected FMP(s) list. Deleted entries are removed from the Selected FMP(s) list only if they were unchecked before opening the dialog.

c) All other existing FMPs remain in the Selected FMP(s) list with the previous check state.

New windows opened after this list update will use the new user preferred Selected list.

To stop editing and leave the FMP Selection without saving the modifications to the list, click on the Cancel button.

If the user clicks the close dialog button ("X" on top right) and the Selected list was changed, a confirmation dialog will pop up asking if the modifications to the list shall be saved or ignored.
22. REPETITIVE RSAS/CDRS WINDOW

22.1. Function Presentation

The Repetitive RSAs/CDRs window is used to view, define and modify repetitive RSA and CDR allocation requests.

22.2. Opening the Window

22.2.1. From the Main Menu

From the Application / FUA menu, select the Open Repetitive option.

For a CADF user, the Select AMC window is opened (see Section 4). After identifying the AMC that the CADF wishes to act on behalf of, the Select AMC window is closed.

22.2.2. From the AUP Window

From the AUP window click on either the RSA “Add to Repetitive” button or the CDR “Add to Repetitive” command button. After defining the repetitive nature of either the RSA or the CDR allocation request through the Edit Repetitive Area Statement or the Edit Repetitive Route Statement window, if the Repetitive RSAs/CDRs window is not already open, it is automatically opened.

22.3. Window Overview

The Repetitive RSAs/CDRs window is split into 2 parts – a header part and a tabular area.

The header part of the Repetitive RSAs/CDRs window identifies the AMC owning the repetitive data (in case of CADF user, it displays the AMC Id that the CADF is acting on behalf of).

The tabular area of the Repetitive RSAs/CDRs window contains 2 tabs:

a) “RSAs”: This tabular view displays a list of repetitive RSA allocation requests.

b) “CDRs”: This tabular view displays a list of repetitive CDR allocation requests.

The Repetitive RSAs/CDRs window is a model less dialogue box. It means that whilst this window is open other functions can be invoked.

There can only be one instantiation of the Repetitive RSAs/CDRs window at any one time.
22.4. User Interactions

22.4.1. “RSAs” Tab

![Figure 22-1 “RSAs” Tab of the Repetitive RSAs/CDRs Window](image)

22.4.2. Repetitive RSA List Definition

Each row of the repetitive RSA list (excluding the header) represents a repetitive allocation request for an area statement.

A repetitive allocation request for area statement can be for an AMC Manageable Area (AMA), Non AMC Manageable (NAM) or for a Reduced Coordination Area (RCA).

A repetitive allocation request for an area statement consists of 13 fields displayed in the following order:

- **c) “Start Date”:** The date from which the area statement becomes repetitive. To interpret this date, the time stored in CHMI / FUA application / General / Query / Default AUP From and Until time shall be appended.

- **d) “End Date”:** The date until which the area statement remains repetitive. To interpret this date, the time stored in CHMI / FUA application / General / Query / Default AUP From and Until time shall be appended.

- **e) “Week Day”:** The day(s) of repetition – can be:
  - “MON” – for Monday excluding holidays
  - “TUE” – for Tuesday excluding holidays
  - “WED” – for Wednesday excluding holidays
  - “THU” – for Thursday excluding holidays
  - “FRI” – for Friday excluding holidays and Busy Fridays
  - “SAT” – for Saturday excluding holidays
  - “SUN” – for Sunday excluding holidays
  - “BFR” – for Busy Friday
  - “HOL” – for holidays
  - “WRK” – for working days Monday through to Friday excluding holidays
  - “WEH” – for weekend days Saturday and Sunday and holidays
22.4.2.1. Area Selection

By default, the 1st (top) area statement is selected if present. The selected area statement is indicated by its background colour being set to the selected colour set of the desktop theme.

To select another area statement, click on any field of the desired area statement. Upon an automatic change of selected area, the scrolling is automatically adjusted. Dev Note: propose default coherent processing.

22.4.2.2. RSA Filtering

By default, the RSA filtering checkboxes labelled “AMA”, “NAM” and “RCA” positioned just above the RSA list are all checked.

Checking/unchecking an RSA filter checkbox includes/removes respectively the repetitive area statements of the corresponding category from the repetitive RSA allocation request list.

22.4.2.3. Repetitive Area Editing Buttons

There are 4 area editing buttons as follows:

a) “Add”: allows to insert a new repetitive area statement.

b) “Edit”: allows to modify the currently selected repetitive area statement.

c) “Duplicate”: allows to insert a new repetitive area statement initialised from the currently selected repetitive area statement.

d) “Delete”: allows to delete the currently selected repetitive area statement.
The “Edit”, “Duplicate” and “Delete” editing buttons are accessible only if an area statement is selected. In all other cases, the “Edit”, “Duplicate” and “Delete” editing buttons are greyed-out (i.e. not accessible).

To add a new repetitive area statement to the repetitive RSA allocation request list, click on the “Add” area editing button if accessible. The Select Area window is opened – see Section 9.

To edit the currently selected repetitive area statement, click on the “Edit” area editing button if accessible. The Edit Repetitive Area Statement window is opened pre-filled with the current values of the selected repetitive area – see Section 23.

To insert a new repetitive area statement initialised from the currently selected repetitive area statement, click on the “Duplicate” area editing button. The Edit Repetitive Area Statement window is opened pre-filled with the current values of the selected repetitive area – see Section 23.

A repetitive area statement added or modified through the Edit Repetitive Area Statement window (note, after selecting an area from the Select Area window, the Edit Repetitive Area Statement window is automatically opened pre-filled with this selection) is automatically inserted into the repetitive RSA allocation request list according to the current sort criteria – see para 7.4.2.2.8. Upon insertion of the repetitive area statement into the repetitive RSA allocation request list:

a) The inserted/modified repetitive area statement is automatically set to be the selected repetitive area statement.

b) The repetitive RSA allocation request list is automatically scrolled so that the inserted/modified repetitive area statement is visible in the repetitive RSA allocation request list.

To delete the selected repetitive area statement, click on the “Delete” area editing button. The user is asked via a Confirmation window to confirm the delete request.

Upon deletion of the previously selected repetitive area, the repetitive area statement immediately below the deleted repetitive area statement, if any, is automatically set to be the newly selected repetitive area statement.

22.4.2.4. Sort

By default, the repetitive area statements in the repetitive RSA allocation request list are sorted by “RSA Id” and then by “WEF” time and “TIL” time of the allocated period.

Whenever “WEF” time and/or “TIL” time are included in the sort criteria, the sorting is performed taking into account the date and the time even though only the time is displayed in the list.

List sort criteria are then adjustable according to 0, 0 and 0 by the user.

Upon change of sort criteria, the scrolling is automatically adjusted. Dev Note: propose default coherent processing.
22.4.3. "CDRs" Tab

Figure 22-2 "CDRs" Tab of the Repetitive RSAs/CDRs Window

22.4.3.1. Repetitive CDR List Definition

Each row of a repetitive CDR list (excluding the header) represents a repetitive allocation request for a route statement.

A repetitive allocation request for a route statement can be for an ATS route, a CDR1 or for a CDR2. Note: ATS routes are identified as CDR0 by the servers.

In the unselected state, repetitive ATS and CDR1 route statements are displayed in CHMI / FUA application / General / List / ATS and CDR1 text colour.

In the unselected state, repetitive CDR2 route statements are displayed in CHMI / FUA application / General / List / CDR2 text colour.

A repetitive allocation request for a route statement consists of 15 fields displayed in the following order:

a) “Start Date”: The date from which the CDR statement becomes repetitive. To interpret this date, the time stored in CHMI / FUA application / General / Query / Default AUP From and Until time shall be appended.

b) “End Date”: The date until which the CDR statement remains repetitive. To interpret this date, the time stored in CHMI / FUA application / General / Query / Default AUP From and Until time shall be appended.

c) “Week Day”: The day(s) of repetition – can be:
   - “MON” – for Monday excluding holidays
   - “TUE” – for Tuesday excluding holidays
   - “WED” – for Wednesday excluding holidays
   - “THU” – for Thursday excluding holidays
   - “FRI” – for Friday excluding holidays and Busy Fridays
   - “SAT” – for Saturday excluding holidays
   - “SUN” – for Sunday excluding holidays
   - “BFR” – for Busy Friday
   - “HOL” – for holidays
• “WRK” – for working days Monday through to Friday excluding holidays
• “WEH” – for weekend days Saturday and Sunday and holidays
• “ANY” – for any days
d) “End Day”: If “Week Day” is set to a specific day and the repetition is to last longer than
24 hours, this is set to a day of the week later than the “Week Day” otherwise this is left
blank.
e) “EXCL”: For ATS and CDR1 route statements, this check box indicates whether the
route statement is to be excluded from the CRAM (box is checked) or not.
f) “Type”: Set to either “ATS”, “CDR1” or “CDR2”.
g) “Route Id”: The route identification (max 7 alphanumeric).
h) “From Point”: The starting point of the route portion that is impacted by this repetitive
route statement (2 to 5 characters).
i) “To Point”: The last (ending) point of the route portion that is impacted by this repetitive
route statement (2 to 5 characters).
j) “MNM FL”: The minimum flight level of the repetitive route segment (3 digits or “GND”).
k) “MAX FL”: The maximum flight level of the repetitive route segment (3 digits or “UNL”).
l) “WEF”: The start time of the validity period of the repetitive route (hh:mm).
m) “TIL”: The end time of the validity period of the repetitive route (hh:mm).
n) “FIR/UIR”: List of FIRs and UIRs covered wholly or partially by the area. Each FIR/UIR
is displayed as an information region type (i.e. “FIR” or “UIR”) followed by location
indicator (4 characters).
o) “Remark”: Optional remarks(max 128 characters).

22.4.3.2. Route Selection

By default, the 1st (top) repetitive route statement is selected if present.
The selected state of a repetitive route statement is displayed in reverse video colours of its
unselected state.
To select another repetitive route statement, click on any field of the desired repetitive route
statement.
Automatic change of the selected repetitive route can occur after certain actions (e.g. on
deletion of a repetitive route statement). Upon an automatic change of selected repetitive
route, the scrolling is automatically adjusted. Developer Note: propose default coherent
processing.
22.4.3.3. CDR Filtering

By default, the CDR filtering checkboxes labelled “ATS”, “CDR1” and “CDR2” positioned just above the repetitive CDR allocation request list are all checked.

Checking/unchecking a CDR filter checkbox respectively includes/removes the repetitive route statements of the corresponding type from the repetitive CDR list.

22.4.3.4. Repetitive Route Editing Buttons

There are 4 route editing buttons as follows:

a) “Add”: allows to insert a new repetitive route statement.

b) “Edit”: allows to modify the currently selected repetitive route statement.

c) “Duplicate”: allows to insert a new repetitive route statement initialised from the currently selected repetitive route statement.

d) “Delete”: allows to delete the currently selected repetitive route statement.

The “Edit”, “Duplicate” and “Delete” route editing buttons are accessible only if a repetitive route statement is selected. In all other cases, the “Edit”, “Duplicate” and “Delete” route editing buttons are greyed-out (i.e. not accessible).

To add a new repetitive route statement to the repetitive CDR allocation request list, click on the “Add” route editing button. The Select Route window is opened – see section 11. Note, after selecting the conditional route segment, the Select Route window is closed and the Edit Repetitive Route Statement window is automatically opened.

To edit the currently selected repetitive route statement, click on the “Edit” route editing button. The Edit Repetitive Route Statement window is opened pre-filled with the current values of the repetitive route – see Section 24.

To insert a new repetitive route statement initialised from the currently selected repetitive route statement, click on the “Duplicate” route editing button. The Edit Repetitive Route Statement window is opened pre-filled with the current values of the repetitive route – see Section 24.

A repetitive route statement added or modified through the Edit Repetitive Route Statement window (note, after selecting a route from the Select Route window, the Edit Repetitive Route Statement window is automatically opened pre-filled with this selection) is automatically inserted into the repetitive CDR allocation request list according to the current sort criteria – see para 7.4.3.7. Upon insertion of the repetitive route statement into the repetitive CDR allocation request list:

a) The inserted/modified repetitive route statement is automatically set to be the selected repetitive route statement.

b) The repetitive CDR allocation request list is automatically scrolled so that the inserted/modified repetitive route statement is visible in the repetitive CDR allocation request list.
To delete the selected repetitive route statement, click on the “Delete” route editing button. The user is asked to confirm via a Confirmation window the delete request.

Upon deletion of the previously selected repetitive route statement, the repetitive route statement immediately below the deleted repetitive route statement, if any, is automatically set to be the newly selected repetitive route.

22.4.3.5. Sort

By default, the repetitive route statements in the repetitive CDR allocation request list are sorted by “Route Id”, sequence number of the points (not displayed) and then by “WEF” time and “TIL” time of the period.

Whenever sorting is required on “Route ID”, it shall be processed as described below:

a) The first criterion is by ascending order of the first pure alphabetic part of the identifier (first group of letters from which the prefix (first character equal to ‘K’, ‘U’ or ‘S’) has been removed e.g. AB123 comes after A123, B123 comes after AB123).

b) The second criterion is by ascending order of the first pure numeric part of the identifier of the route (first group of ciphers following the above group of letters e.g. A123 comes after A44).

c) The third criterion is by ascending order of the possible third alphanumeric part of the identifier of the route (first group of letters and ciphers following the above group of ciphers) (e.g. UL613 comes before UL613D).

d) The last criterion is to present the route with a prefix (by ascending order of prefix equal to ‘K’, ‘S’ or ‘U’) just before the route without prefix (e.g. UA44 comes before A44).

Whenever “From Point” and/or “To Point” is included in the sort criteria, the sorting is performed according to the “Route Id” and then the sequence number of the point along the route which is not displayed.

Whenever “WEF” time or “TIL” time is included in the sort criteria, the sorting is performed taking into account the date and the time even though only the time is displayed in the list.

List sort criteria are then adjustable according to 0, 0 and 0 by the user.

Upon change of sort criteria, the scrolling is automatically adjusted. Developer Note: propose default coherent processing.

22.4.4. Actions

Whilst the Repetitive RSAs/CDRs window is active, the “Action” pulldown menu and the toolbar buttons may allow the user to perform the following actions:

a) Save
b) Print Preview…
c) Print…
22.4.4.1. **Save Action**

The Save action is only available when there is a change in either the repetitive RSA allocation request list or in the repetitive CDR allocation request list since invoking the Repetitive RSAs/CDRs window or since the last Save action. In all other cases, the Save action is greyed-out (i.e. not accessible).

Upon invoking the Save action the contents of the repetitive RSA and CDR allocation request lists are saved into the system.

22.4.4.2. **Print Preview Action**

The Print Preview action is always available when the Repetitive RSAs/CDRs window is opened and has the input focus.

Upon invoking the Print Preview action, the Print Preview window is opened – see Section 25.

22.4.4.3. **Print Action**

The Print action is always available when the Repetitive RSAs/CDRs window is opened and has the input focus.

Upon invoking the Print action, the Print window is opened – see Section 26.

22.4.5. **To Close the Window**

Click on the close window icon.

Upon invoking the Close action, if no changes were made to the contents of the window since invoking it or since the last Save action, the Repetitive RSAs/CDRs window is closed.

Upon invoking the Close action, if any changes were made to the contents of the window since invoking it or since the last Save action, the user is asked via a Confirmation window whether he/she wishes to save the changes or not prior to closing the window or whether to cancel the Close action.

Upon confirmation of the Close action without saving the changes, the Confirmation and the Repetitive RSAs/CDRs windows are closed. All changes made since opening of the window or since the last Save action are lost.

Upon cancellation of the Close action, only the Confirmation window is closed.

Upon confirmation of the Close action with saving the changes, the Confirmation window is closed, and an automatic save action is initiated.

The automatic save action shall save the contents of the repetitive RSA and CDR allocation request lists into the system and close the Repetitive RSAs/CDRs window.
23. EDIT REPETITIVE AREA STATEMENT WINDOW

23.1. Function Presentation

The Edit Repetitive Area Statement window is used to edit a repetitive area statement.

23.2. Opening the Window

From the Select Area window click “Select” button after having selected an available area. The Edit Repetitive Area Statement window is opened if the Select Area was invoked from the Repetitive RSAs/CDRs.

From the Repetitive RSAs/CDRs click the “Edit” or the “Duplicate” area editing button.

From the AUP window, click “Add to Repetitive RSAs” button.

For an explanation of the various fields of a repetitive area statement, see section 22.4.2 of the Repetitive RSAs/CDRs window.

On invoking the Edit Repetitive Area Statement window via the Select Area window:

a) The fields “CAT” through to “Remark” are set to the availability data of the selected area in the Select Area window.

b) The fields “Start Date” through to “End Day” are set to blank.

c) The “Ok” button is greyed-out (i.e. not accessible).

On invoking the Edit Repetitive Area Statement window via the “Edit” or the “Duplicate” area editing button of the Repetitive RSAs/CDRs window:

a) The repetitive area statement fields of the window are set to the corresponding values of the selected repetitive area statement in the Repetitive RSAs/CDRs window.

b) The “Ok” button is greyed-out (i.e. not accessible).

c) The “Ok” button is greyed-out (i.e. not accessible).

On invoking the Edit Repetitive Area Statement window via the AUP window:

a) The fields “CAT” through to “Remark” are set to the values of the selected area in the AUP window.

b) The fields “Start Date” through to “End Day” are set to blank.

c) The “Ok” button is greyed-out (i.e. not accessible).

The Edit Repetitive Area Statement window is a modal dialogue box, it means that whilst this window is open no other functions can be invoked.
23.3. User Interactions

23.3.1. Repetitive Area Statement Fields

The user can edit the “MNM FL” field – it is constrained to allow exactly 3 digits. For flight levels below or equal to 195, the input must end in either 0 or 5. For flight levels above 195, the input must end in 0. On input of 000, the input shall be displayed as “GND”. Input of “MNM FL” below the area’s minimum available flight level is not permitted – this is probably best left to validation check in case there are multiple area availabilities with differing level bands.

The user can edit the “MAX FL” field – it is constrained to allow exactly 3 digits. For flight levels below or equal to 195, the input must end in either 0 or 5. For flight levels above 195, the input must end in 0 or be set to 999 to represent unlimited flight level. On input of 000, the input shall be displayed as “GND”. On input of 999, the input shall be displayed as “UNL”. Input of “MAX FL” above the area’s maximum available flight level is not permitted – this is probably best left to validation check in case there are multiple area availabilities with differing level bands.

The user can edit the “WEF” time field – it is constrained to allow entry of exactly 4 digits corresponding to a valid time. The “:” is inserted automatically. Input of “WEF Time” earlier than the area’s available start date and time is not permitted – this is probably best left to validation check in case there are multiple area availabilities with differing time bands.

The user can edit the “TIL” time field – it is constrained to allow entry of exactly 4 digits corresponding to a valid time. The “:” is inserted automatically. Input of “TIL” time later than the area’s available end date and time is not permitted – this is probably best left to validation check in case there are multiple area availabilities with differing time bands.

The user can edit the “Resp Unit” field – it is constrained to allow a maximum of only 12 alphanumeric. In addition to allowing the user to directly edit the field, a pulldown menu gives access to the last “n” “Resp Unit” entered.

The user can edit the “Remark” field – it is constrained to allow a maximum of 128 characters.

The user can modify the “Start Date” field.

The user can modify the “End Date” field.

The user can modify the “Week Day” – it is constrained to be one of the following:

a) “MON” – for Monday excluding holidays
b) “TUE” – for Tuesday excluding holidays
c) “WED” – for Wednesday excluding holidays
d) “THU” – for Thursday excluding holidays
e) “FRI” – for Friday excluding holidays and Busy Fridays
f) “SAT” – for Saturday excluding holidays
g) “SUN” – for Sunday excluding holidays
h) “BFR” – for Busy Friday
23.3.1. To Modify a Repeatable Area Statement

The user can modify the “End Day” field to be one of the following if “Week Day” is set to a specific day (“MON”…”SUN”):

- blank
- “MON” – for Monday excluding holidays
- “TUE” – for Tuesday excluding holidays
- “WED” – for Wednesday excluding holidays
- “THU” – for Thursday excluding holidays
- “FRI” – for Friday excluding holidays and Busy Fridays
- “SAT” – for Saturday excluding holidays
- “SUN” – for Sunday excluding holidays

If “Week Day” is set to a specific day and the repetition is to last longer than 24 hours, “End Day” should be set to a day of the week later than the “Week Day”. If the “End Day” is set to blank, then the repetition is only for the period defined by the “WEF” Time and “TIL” Time of the “Week Day” (note, “TIL” time could be up to CHMI / FUA application / General / Query / Default AUP From and Until time the day after the “Week Day”).

All other fields of a repetitive area statement in the Edit Repetitive Area Statement window are not editable by the user.

23.3.2. To Commit the Changes

If the Edit Repetitive Area Statement window was invoked upon an “Edit” or “Duplicate” area statement request from the Repetitive RSAs/CDRs window, the “Ok” button is only made accessible after a modification to any of the accessible fields.

If the Edit Repetitive Area Statement window was invoked from the Select Area window, the “Ok” button is only made accessible after at least the “Start Date”, “End Date” and the “Week Day” fields are non-blank (i.e. these fields are mandatory).

When the “Ok” button is accessible and all the necessary modifications have been entered, click “Ok” button.

If the “MAX FL” had been set to be equal to or to be below the “MNM FL” the user is informed via an Error window to make the necessary change.

If the “WEF” time had been set to be after the “TIL” time (taking into account possible date change) the user is informed via an Error window to make the necessary change.
If the “Start Date” had been set to be after the “End Day” the user is informed via an Error window to make the necessary change.

If both “Week Day” and “End Day” have been set to a day of the week and the “Week Day” is set to a day after the “End Day”, the user is informed via an Error window to make the necessary change.

May require to perform a validation check to ensure that entered level band and period are within the availability defined for the RSA in ENV/AIRAC(s) since this would be difficult to catch at input stage especially when there may be multiple availabilities. Alternatively, this check could be left until AUP validation.

Upon click on the “Ok” button, if there are no errors arising from (4), (5), (6), and (7):

a) The Edit Repetitive Area Statement window is closed.

b) The Repetitive RSAs/CDRs window is opened if not already open, and

c) The repetitive area statement is added/modified in the repetitive RSA list of the Repetitive RSAs/CDRs window.

23.3.3. To Cancel the Edit

Click on Cancel button at any time. The Edit Repetitive Area Statement window is closed and all inputs made into that window are discarded.
24. EDIT REPETITIVE ROUTE STATEMENT WINDOW

24.1. Function Presentation

The **Edit Repetitive Route Statement** window is used to edit a repetitive route statement.

24.2. Opening the Window

From the Select CDR window click “Select” button when accessible. The Edit Repetitive Route Statement window is opened if the Select CDR window was invoked to update the list of repetitive CDRs.

From the Repetitive RSAs/CDRs click the “Edit” or the “Duplicate” route editing button.

From the AUP window, click “Add to Repetitive CDRs” button.

For an explanation of the various fields of a repetitive route statement, see section 22.4.3.1 of the Repetitive RSAs/CDRs window.

On invoking the Edit Repetitive Route Statement window via the Select CDR window:

a) The fields “Type” through to “Remark” are set to.

b) The availability data of the selected route in the Select CDR window if a single conditional route was selected in that window, otherwise.

c) The collapsed availability data of the selected routes in the Select CDR window. Collapsing means that an entry starting at the point where another entry ends are grouped into one (multiple selections of conditional routes are only permitted when they have the same minimum and maximum flight level and the same validity period and either the starting point or the ending point continues on from another selected conditional route).

d) The fields “Start Date” through to “End Day” are set to blank.

e) The “Ok” button is greyed-out (i.e. not accessible).

On invoking the **Edit Repetitive Route Statement** window via the “Edit” or the “Duplicate” route editing button of the Repetitive RSAs/CDRs window:

a) The repetitive route statement fields of the window are set to the corresponding values of the selected repetitive route statement in the Repetitive RSAs/CDRs window.

b) The “Ok” button is greyed-out (i.e. not accessible).
On invoking the **Edit Repetitive Route Statement** window via the **AUP** window:

a) The fields “CAT” through to “Remark” are set to the values of the selected route in the **AUP** window.

b) The fields “Start Date” through to “End Day” are set to blank.

c) The “Ok” button is greyed-out (i.e. not accessible).

The foreground colour of an unselected field of the repetitive route statement in the **Edit Repetitive Route Statement** window is displayed in:

a) CHMI / FUA application / General / List / ATS and CDR1 text colour when “CDR Type” is “ATS” or “CDR1”.

b) CHMI / FUA application / General / List / CDR2 text colour when “CDR Type” is “CDR2”.

The **Edit Repetitive Route Statement** window is a modal dialogue box, it means that whilst this window is open no other functions can be invoked.

### 24.3. User Interactions

#### 24.3.1. Repetitive Route Statement Fields

The user can edit the “MNM FL” field – it is constrained to allow exactly 3 digits. For flight levels below or equal to 195, the input must end in either 0 or 5. For flight levels above 195, the input must end in 0. On input of 000, the input shall be displayed as “GND”. For ATS routes and CDR1s, the input of “MNM FL” is constrained to be less than or equal to the minimum available flight level (i.e. widen the availability). For CDR2s, the input of “MNM FL” is constrained to be greater than or equal to the minimum available flight level (i.e. narrow the availability) – this is probably best left to validation check in case there are multiple CDR availabilities with differing level bands.

The user can edit the “MAX FL” field – it is constrained to allow exactly 3 digits. For flight levels below or equal to 195, the input must end in either 0 or 5. For flight levels above 195, the input must end in 0 or be set to 999 to represent unlimited flight level. On input of 000, the input shall be displayed as “GND”. On input of 999, the input shall be displayed as “UNL”. For ATS routes and CDR1s, the input of “MAX FL” is constrained to be greater than or equal to the maximum available flight level (i.e. widen the availability). For CDR2s, the input of “MAX FL” is constrained to be less than or equal to the maximum available flight level (i.e. narrow the availability) – this is probably best left to validation check in case there are multiple CDR availabilities with differing level bands.

The user can edit the “WEF” time field – it is constrained to allow entry of exactly 4 digits corresponding to a valid time. The “:” is inserted automatically. For ATS routes and CDR1s, the input of “WEF” time is constrained to be before or equal to the availability start time (i.e. widen the availability). For CDR2s, the input of “WEF” time is constrained to be after or equal to the availability start time (i.e. narrow the availability) – this is probably best left to validation check in case there are multiple CDR availabilities with differing time bands.
The user can edit the “TIL” time field – it is constrained to allow entry of exactly 4 digits corresponding to a valid time. The “:” is inserted automatically. For ATS routes and CDR1s, the input of “TIL” time is constrained to be after or equal to the availability end time (i.e. widen the availability). For CDR2s, the input of “TIL” time is constrained to be before or equal to the availability end time (i.e. narrow the availability) - -- this is probably best left to validation check in case there are multiple CDR availabilities with differing time bands.

The user can edit the “Remark” field – it is constrained to allow a maximum of 128 characters.

The user can modify the “Start Date” field.

The user can modify the “End Date” field.

The user can modify the “Week Day” – it is constrained to be one of the following:

a) “MON” – for Monday excluding holidays
b) “TUE” – for Tuesday excluding holidays
c) “WED” – for Wednesday excluding holidays
d) “THU” – for Thursday excluding holidays
e) “FRI” – for Friday excluding holidays and Busy Fridays
f) “SAT” – for Saturday excluding holidays
g) “SUN” – for Sunday excluding holidays
h) “BFR” – for Busy Friday
i) “HOL” – for holidays
j) “WRK” – for working days Monday through to Friday excluding holidays
k) “WEH” – for weekend days Saturday and Sunday and holidays
l) “ANY” – for any days

The user can modify the “End Day” field to be one of the following if “Week Day” is set to a specific day (“MON”…”SUN”):

a) blank
b) “MON” – for Monday excluding holidays
c) “TUE” – for Tuesday excluding holidays
d) “WED” – for Wednesday excluding holidays
e) “THU” – for Thursday excluding holidays
f) “FRI” – for Friday excluding holidays and Busy Fridays
g) “SAT” – for Saturday excluding holidays
h) “SUN” – for Sunday excluding holidays
If “Week Day” is set to a specific day and the repetition is to last longer than 24 hours, “End Day” should be set to a day of the week later than the “Week Day”. If the “End Day” is set to blank, then the repetition is only for the period defined by the “WEF” time and “TIL” time of the “Week Day” (note, “TIL” time could be up to 06:00 the day after the “Week Day”). All other fields of a repetitive route statement in the Edit Repetitive Route Statement window are not editable by the user.

### 24.3.2. To Commit the Changes

If the Edit Repetitive Route Statement window was invoked upon an “Edit” or “Duplicate” route statement request from the Repetitive RSAs/CDRs window, the “Ok” button is only made accessible after a modification to any of the accessible fields.

If the Edit Repetitive Route Statement window was invoked from the Select Route window, the “Ok” button is only made accessible after at least the “Start Date”, “End Date” and the “Week Day” fields are non-blank (i.e. these fields are mandatory).

When the “Ok” button is accessible and all the necessary modifications have been entered, click “Ok” button.

If the “MAX FL” had been set to be equal to or to be below the “MNM FL” the user is informed via an Error window to make the necessary change.

If the “WEF” time had been set to be after the “TIL” time (taking into account possible date change) the user is informed via an Error window to make the necessary change.

If the “Start Date” had been set to be after the “End Day” the user is informed via an Error window to make the necessary change.

If both “Week Day” and “End Day” have been set to a day of the week and the “Week Day” is set to a day after the “End Day”, the user is informed via an Error window to make the necessary change.

May require to perform a validation check to ensure that entered level band and period are within the availability defined for the CDR in ENV/AIRAC(s) since this would be difficult to catch at input stage especially when there may be multiple availabilities. Alternatively, this check could be left until AUP validation.

Upon click on the “Ok” button, if there are no errors arising from (4), (5), (6) and (7):

- a) The Edit Repetitive Route Statement window is closed.
- b) The Repetitive RSAs/CDRs window is opened if not already open, and
- c) The repetitive route statement is added/modified in the repetitive CDR list of the Repetitive RSAs/CDRs window.

### 24.3.3. To Cancel the Edit

Click on Cancel button at any time. The Edit Repetitive Route Statement window is closed and all inputs made into that window are discarded.
25. PRINT PREVIEW WINDOW

25.1. Function Presentation

The Print Preview window allows the user to view on the screen either:

a) An AUP, when invoked from the AUP window, or

b) The complete list of repetitive RSAs and CDRs held in the database for one AMC, when invoked from the Repetitive RSAs/CDRs window.

The Print Preview window allows the user to view in one of two formats, by parts (the different parts being: list of CDR2s, list of ATS routes and CDR1s, list of AMA RSAs, list of NAM RSAs and list of RCA RSAs) or by FIR.

When the print preview request is by parts:

a) The CDRs and RSAs are listed by parts.

b) The keyword “NIL” indicates when there is no entry to be displayed in a given part.

c) Within each part the list is broken down by FIR/UIR. The information regions are alphabetically sorted in ascending order (A-Z) by the location indicator first. Then, the UIR (if present) of the corresponding location indicator is listed above its corresponding FIR (if present).

d) If a CDR or RSA has more than one FIR and/or UIR identified, this statement is repeated for each of the FIR/UIR identified.

e) Then the different lists are sorted according to the default sort criteria of the list in the invoking window (for CDR lists see para 7.4.2.3.7, for RSA lists see para 7.4.2.2.8).

f) When the print preview request is by FIR.

g) The information regions are alphabetically sorted in ascending order (A-Z) by the location indicator first. Then, the UIR (if present) of the corresponding location indicator is listed above its corresponding FIR (if present).

h) If a CDR or RSA has more than one FIR and/or UIR identified, this statement is repeated for each of the FIR/UIR identified.

i) Within each FIR/UIR, the CDRs and RSAs are listed by parts sorted according to the default sort criteria of the list in the invoking window (for CDR lists see para 7.4.2.3.7, for RSA lists see para 7.4.2.2.8).

j) The keyword “NIL” indicates when there is no entry to be displayed in a given part.

Regardless of the print preview format selected (by parts or by FIR), the user is able to selected/deselect the parts to be viewed/not viewed.

When a print preview request is for an AUP, the displayed AUP in the Print Preview window lists all CDRs (linked to an allocated RSA, linked to a non-allocated RSA and those manually entered) and all allocated RSAs regardless of any filtering that may be applied in the AUP window at the time.
When a print preview request is for the list of repetitive RSAs and CDRs, all CDRs and all allocated RSAs regardless of any filtering that may be applied in the Repetitive RSAs/CDRs window at the time are displayed in the Print Preview window.

The different print preview formats are described further in section 9 Print & Print Preview Formats.

25.2. Opening the Window

25.2.1. From the AUP Window

Select the Print Preview action from the AUP window.

25.2.2. From the Repetitive RSAs/CDRs Window

Select the Print Preview action from the Repetitive RSAs/CDRs window.

On invoking the Print Preview window, the following are set as defaults:

a) All items in the “View parts” group box are checked.

b) The “Parts” option in the “View by” group box is selected.

The Print Preview window is a modal dialogue box, it means that whilst this window is open no other functions can be invoked.
25.3. User Interaction

25.3.1. View by

Select the desired “View by” option in the “View by” group box.

25.3.2. View Parts

The user can choose to view specific parts by checking/unchecking the corresponding check box in the “View parts” group box.

25.3.3. To Print to the Default Printer

Click on the Print button. The print request is submitted to the default printer with the “print by” and “print parts” set to currently selected “view by” and “view parts” options respectively. Note, printing to a printer other than the default is only possible through the Print window – see Section 26.

Rest of the toolbar interactions are MS-Word standard. I don’t think it necessary to elaborate them here.

25.3.4. To Close the Window

Click on Cancel button at any time. The Print Preview window is closed.
26. PRINT WINDOW

26.1. Function Presentation

The Print window is used to submit a print request of either:

a) An AUP, when invoked from the AUP window, or

b) The complete list of repetitive RSAs and CDRs held in the database for one AMC, when invoked from the Repetitive RSAs/CDRs window.

The Print window allows the user to print in one of two formats, by parts (the different parts being: list of CDR2s, list of ATS routes and CDR1s, list of AMA RSAs, list of NAM RSAs and list of RCA RSAs) or by FIR.

When the print request is by parts:

a) The CDRs and RSAs are listed by parts.

b) The keyword “NIL” indicates when there is no entry to be displayed in a given part.

c) Within each part the list is broken down by FIR/UIR. The information regions are alphabetically sorted in ascending order (A-Z) by the location indicator first. Then, the UIR (if present) of the corresponding location indicator is listed above its corresponding FIR (if present).

d) If a CDR or RSA has more than one FIR and/or UIR identified, this statement is repeated for each of the FIR/UIR identified.

e) Then the different lists are sorted according to the default sort criteria of the list in the invoking window (for CDR lists see para 7.4.2.3.7, for RSA lists see para 7.4.2.2.8).

When the print request is by FIR:

a) The information regions are alphabetically sorted in ascending order (A-Z) by the location indicator first. Then, the UIR (if present) of the corresponding location indicator is listed above its corresponding FIR (if present).

b) If a CDR or RSA has more than one FIR and/or UIR identified, this statement is repeated for each of the FIR/UIR identified.

c) Within each FIR/UIR, the CDRs and RSAs are listed by parts sorted according to the default sort criteria of the list in the invoking window (for CDR lists see para 7.4.2.3.7, for RSA lists see para 7.4.2.2.8).

d) The keyword “NIL” indicates when there is no entry to be displayed in a given part.

Regardless of the print format selected (by parts or by FIR), the user is able to select/deselect the parts to be printed/not printed.

When a print request is for an AUP, a printed AUP lists all CDRs (linked to an allocated RSA, linked to a non-allocated RSA and those manually entered) and all allocated RSAs regardless of any filtering that may be applied in the AUP window at the time.
When a print request is for the list of repetitive RSAs and CDRs, all CDRs and all allocated RSAs regardless of any filtering that may be applied in the Repetitive RSAs/CDRs window at the time are printed.

The different print formats are described further in section 9 Print & Print Preview Formats.

26.2. Opening the Window
26.2.1. From the AUP Window
Select the Print action from the AUP window.
26.2.2. From the Repetitive RSAs/CDRs Window
Select the Print action from the Repetitive RSAs/CDRs window.
26.2.3. From the Print Preview Window
Click on the Print button from the Print Preview window. – perhaps this should print directly on the default printer avoiding this extra dialogue.

On invoking the Print window, the following are set as defaults:

a) In the “Printer” group box (standard MS-Windows behaviour):
   - The “Name” field is set to the default printer assigned through the MS-Windows environment.
   - The “Status” field display the printer status as known by MS-Windows.
   - The “Type” field displays the type of printer selected if known.
   - The “Where” field displays the printer location if known.
   - The “Comment” field display any additional comments for the printer.
b) In the “Copies” group box (standard MS-Windows behaviour):
   • “Number of Copies” is set to 1, and
   • The “Collate” check box is checked.

   c) The “Parts” option in the “Print by” group box is selected. (If the Print window can be invoked from the Print Preview window, the “Print by” group box should be set according to the choice made in the Print Preview window).

   d) All items in the “Print parts” group box are checked. (If the Print window can be invoked from the Print Preview window, the “Print parts” group box should be set according to the choice made in the Print Preview window).

The Print window is a modal dialogue box, it means that whilst this window is open no other functions can be invoked.

26.3. User Interaction
26.3.1. To Change Printer Attributes

To change the printer, select the desired printer from the “Name” pulldown menu. If the required printer is not present in the pulldown list, the printer must be installed correctly on the PC – follow the MS-Windows procedure for installing a printer.

To change the printer properties, click on the “Properties” button. This will lead to an MS-Windows dialogue box from which some of the printer properties can be changed.

26.3.2. Print by

Select the desired “Print by” option in the “print by” group box.

26.3.3. Print Parts

The user can choose to print/not print specific parts by checking/unchecking the corresponding check box in the “Print parts” group box.

26.3.4. To Print

Click on the Print button. The Print window is closed.

26.3.5. To Close the Window

Click on Cancel button at any time. The Print window is closed.
27. MESSAGE WINDOWS

27.1. Function Presentation
There are 4 main versions of the message windows:
   a) Information window.
   b) Warning window.
   c) Error window, and
   d) Warning/Error List window.

27.2. Opening the Window
The message windows are automatically invoked at any time when necessary.

Figure 27-1 Information Window

Figure 27-2 Warning Window

Figure 27-3 Error Window

Figure 27-4 Warning-Error List Window
The message and the icon in the Information, Warning and Error message windows vary to reflect the version of the message window. In some instances, the window may present the user to choose the preferred action.

The Warning-Error List window is presented when multiple warnings and/or errors are detected by the system for an AUP (i.e. there can be multiple instances of a Warning-Error List window – one per AUP being worked on).

The title of the Warning-Error List window identifies the AUP that it is reporting the warnings and/or errors on.

The Warning-Error List window lists all the warning and/or errors detected. This is the case after a Save, Validate or Promote action on an AUP.

If a Refresh action is performed in the Overview tab of an AUP window, if the Warning-Error List window is already open for that AUP, that Warning-Error List window is also refreshed.

The Information, Warning and Error message windows are modal.

The Warning-Error List message window is modeless.

27.3. User Interactions

If the message presents a list of detected warnings or errors, selecting an entry in the list may highlight the corresponding field or entry in the parent window that caused the warning or error.

If the message allows the user to choose a preferred action, select a preferred action from those presented.

Click the “Ok” button at any time. The window is closed.