

# Steps for enabling SITA AMHS Transition into ICAO MID Region

Presented by  
Jordan

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## **Presentation Outline**

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- Introduction
  - Validation of AMHS User Address
  - Routing for SITA
  - Transition Manager (MIDAMC)
  - Planning Acknowledgement Table
  - Transition
  - Transition Acknowledgement Table
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## Introduction

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- In the ICAO Memorandum sent to all ICAO Regional CNS Officers, it states that the 'ATS Messaging Management Centre (AMC) will coordinate the activity' and that 'each COM Centre shall take actions.' Whilst the AMC Operator cannot mandate the steps in SITA Gateway Transition Planning guide, it requests the cooperation of COM Centres to follow the steps allowing a smooth transition of new SITA AMHS Gateways into Global operations.
  - The risks of not coordinating the transition activity include message looping, message loss and NDRs throughout the global AMHS network.
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## 1- Validation of AMHS User Address

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- MID COM Centres are required to re-validate the AMHS User Addresses published by the AMC Application .
  - The following MID Com centers are required to re-validate the exceptional SITA AMHS User Addresses published by the AMC Application. (*Bahrain, Egypt, Iran, Jordan, Lebanon, Qatar, Saudi Arabia, Yemen, Syria and UAE*)
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## Cont'd

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- The other MID COM centers who do not have exceptional SITA AMHS User Addresses should confirm that they do not have exceptional SITA AMHS User Addresses (*Libya, Sudan, Kuwait, Oman, and Iraq*)
  - The current AMHS User Addresses in AMC is attached as at **Appendix A**
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## 2- Routing for SITA

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- MID COM Centres are required to ensure routing exists for the PRMD SITA to either the MTCU or to the Regional SITA Gateway .
  - MID COM Centres are required to discuss “SITA Proposed routings” of MID states through OLBA or OJAM AMHS centers
  - The proposed routing is attached as at **Appendix B**
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### **3- Notifying the AMC Operator**

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- The Transition manager will contact the AMC Operator to notify the intention of integrating a new SITA Gateway into ICAO MID Region and providing the planned AIRAC date the transition will occur.
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## 4- Planning Acknowledgement Table

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- MID COM centres are required to complete the Planning Acknowledgement Table in a close coordination with the Transition manager
- Transition manager will then submit Planning Acknowledgement Table & Routing Arrangements to the AMC Operator confirm Regional Acknowledgement

Planning Acknowledgement Table

<b>COM Centre</b>	<b>Contact</b>	<b>Tel.</b>	<b>E-mail</b>	<b>ACK Date</b>
<i>e.g. WSSS</i>	<i>Mr. Smith</i>	<i>+1123456789</i>	<i>mr.smith@comcentre.org</i>	<i>9/12/16</i>

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## 5- Preparing for Transition

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- Transition will occur on the agreed AIRAC date for the Region.
  - During the AIRAC cycle leading to the transition date, the following tasks will be completed:
    - The agreed transition date will be published on the AMC Bulletin Board by the AMC Operator.
    - The AMC Operator will create the Routing tables in the AMC Application to correctly reflect the routing of the PRMD SITA for each COM Centre.
    - Each COM Centre will check the AMC data including routing and user address list.
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## 6- Transition Acknowledgement Table

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- The following Transition Acknowledgement Table must be completed and sent to the AMC Operator by the Transition Manager by Day 21 (ACK/NACK) of the AIRAC cycle.

Transition Acknowledgement Table

COM Centre	Contact	AFTN	E-mail	Check routing	Check address list	ACK Date
<i>e.g. WSSS</i>	<i>Mr. Smith</i>	<i>WSSSABCD</i>	<i>mr.smith@comcentre.org</i>	✓	✓	<i>9/12/16</i>

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## Cont'd

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- By analyzing received Transition Acknowledgement Table, the AMC Operator will confirm that the activity will continue as planned if all COM Centres acknowledge the process.
  - On Day 25 of the AIRAC, the AMC Bulletin Board will be updated to confirm that the activity is taking place.
  - The Transition Manager will inform each COM Centre in the Region by e-mail.
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## **7-Transition**

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- On Day 28 after 11:00 UTC, the AMC Operator will confirm that each COM Centre has implemented the AMHS User Address list and routing the SITA PRMD to the SITA Gateway.
  - This confirmation will also be sent to the Regional COM Centres, the ICAO Regional CNS Officer, Regional Focal Point by the AMC.
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**Thank You**



## Exceptional SITA User Address Table for MID Com centers

### 1-EGYPT (HECAYFYX)

User Short Name	AFTN Addr Indicator	O/R Address
CAIKKAF	HECAAFRK	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=HECAAFRK
CAIKKMS	HECAMSRK	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=HECAMSRK
CAIOOMS	HECAMSRO	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=HECAMSRO
QIFPMXH	HECASITX	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=HECASITX
JEDDDSV	HECASVAO	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=HECASVAO

### 2-LIBYA (HLLT)

NONE

### 3-SUDAN (HSSS)

NONE

### 4-BAHRAIN (OBBI)

User Short Name	AFTN Addr Indicator	O/R Address
BAHOWER	OBBIDHLS	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OBBIDHLS
HDQFPGF	OBBIZKZX	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OBBIZKZX

### 5-SAUDI ARABIA (OEJN)

User Short Name	AFTN Addr Indicator	O/R Address
JEDYFSV	OEJDSVAY	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OEJDSVAY
JEDNNSV	OEJNSVAN	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OEJNSVAN
JEDDDSV	OEJNSVAO	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OEJNSVAO
JEDDDSV	OEJNSVAP	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OEJNSVAP
JEDDDSV	OEJNSVAX	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OEJNSVAX
JEDDDSV	OEJNSVAY	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OEJNSVAY
JEDDDSV	OEJNSVSA	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OEJNSVSA
JEDDDSV	OEJNSVSR	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OEJNSVSR
JEDDDSV	OEJNZPZE	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OEJNZPZE
JEDDDSV	OERKSVAC	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OERKSVAC
JEDDDSV	OERKVAO	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OERKVAO
JEDDDSV	OERKZPZA	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OERKZPZA
JEDDDSV	OERKZPZE	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OERKZPZE

## 6-IRAN (OIII)

User Short Name	AFTN Addr Indicator	O/R Address
IFNXPIR	OIFMIRAX	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OIFMIRAX
IKAOWIR	OIIIEIRAI	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OIIIEIRAI
IKAOWIR	OIIIEIRAO	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OIIIEIRAO
IKAOWIR	OIIIEIRZO	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OIIIEIRZO
QIFPMIR	OIIIEOIRA	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OIIIEOIRA
THRKKAF	OIIIAFRK	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OIIIAFRK
THRXYAF	OIIIAFRX	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OIIIAFRX
THRKKAZ	OIIIAZAK	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OIIIAZAK
THRXYAZ	OIIIAZAX	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OIIIAZAX
THRSSLH	OIIIDLHS	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OIIIDLHS
THR2XLH	OIIIDLHX	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OIIIDLHX
THRXYGF	OIIIGFAX	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OIIIGFAX
THRAAIR	OIIIRAA	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OIIIRAA
THRCCIR	OIIIRAC	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OIIIRAC
THRDDIR	OIIIRAD	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OIIIRAD
THRXCIR	OIIIRAG	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OIIIRAG
THRIIR	OIIIRAI	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OIIIRAI
THRNIR	OIIIRAN	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OIIIRAN
THROMIR	OIIIRAO	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OIIIRAO
THROZIR	OIIIRAZ	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OIIIRAZ
THROWIR	OIIIRBX	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OIIIRBX
THRRTKU	OIIIKACT	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OIIIKACT
THRSSKU	OIIIKACX	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OIIIKACX
THRKKKL	OIIIKLMK	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OIIIKLMK
THRXYKL	OIIIKLMX	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OIIIKLMX
THROWIR	OIIIMRJX	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OIIIMRJX
IKAKKWY	OIIIMAT	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OIIIMAT
THRUUPK	OIIPIAU	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OIIPIAU
THRYFXS	OIIISITY	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OIIISITY
THRXXSV	OIIISVAX	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OIIISVAX
THRTRTB	OIIISYRT	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OIIISYRT
THRXYRB	OIIISYRX	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OIIISYRX
QIFPMXH	OIIITBMX	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OIIITBMX
THRRTTK	OIIITHYT	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OIIITHYT
THRXYTK	OIIITHYX	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OIIITHYX
THRKKEK	OIIIUAEK	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OIIIUAEK
IKAOWIR	OIIIRIRAO	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OIIIRIRAO
THRNMXS	OIIITSITN	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OIIITSITN
THRTRTB	OIIITSYRT	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OIIITSYRT

## 7-JORDAN (OJAM)

User Short Name	AFTN Addr Indicator	O/R Address
AMMXTXS	OJAMSITF	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OJAMSITF
AMMNMXS	OJAMSITM	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OJAMSITM

## 8-KUWAIT (OKBK)

NONE

## 9-LEBANON (OLBA)

User Short Name	AFTN Addr Indicator	O/R Address
BEYKKAF	OLBAAFRK	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OLBAAFRK
BEYXYAI	OLBAAICX	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OLBAAICX
BEYXYAZ	OLBAAZAX	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OLBAAZAX
BEY2XLH	OLBADLHX	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OLBADLHX
BEYEAXH	OLBAESMX	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OLBAESMX
BEYPPGF	OLBAGFAP	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OLBAGFAP
BEYXYKU	OLBAKACX	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OLBAKACX
BEYKKKU	OLBAKUAP	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OLBAKUAP
BEYKZRJ	OLBAKZRJ	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OLBAKZRJ
BEYOWME	OLBAMEAW	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OLBAMEAW
BEYXYME	OLBAMEAX	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OLBAMEAX
SINXTXS	OLBASITX	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OLBASITX
BEYKKSX	OLBASVAK	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OLBASVAK
BEYXYTK	OLBATHYX	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OLBATHYX

## 10-UNITED ARAB EMIRATES – UAE (OMAE)

User Short Name	AFTN Addr Indicator	O/R Address
DXBOPXH	OMOBYKYX	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OMOBYKYX

## 11-OMAN (OOMS)

NONE

## 12-IRAQ (ORBI)

NONE



## 13-SYRIA (OSDI)

User Short Name	AFTN Addr Indicator	O/R Address
DAMKKAF	OSDIAFRK	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OSDIAFRK
DAMXYAF	OSDIAFRX	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OSDIAFRX
DAMKKAZ	OSDIAZAK	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OSDIAZAK
DAMXXCX	OSDICPAX	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OSDICPAX
DAMUUAH	OSDIDAHU	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OSDIDAHU
DXBPAXH	OSDIFASD	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OSDIFASD
DAMFAXH	OSDIFASX	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OSDIFASX
DAMOOGF	OSDIGFAO	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OSDIGFAO
DAMSSGF	OSDIGFAS	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OSDIGFAS
DAMID7X	OSDIHISX	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OSDIHISX
DAMTOIA	OSDIIAWX	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OSDIIAWX
DAMKKIR	OSDIIRAK	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OSDIIRAK
DAMLLIR	OSDIIRAL	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OSDIIRAL
DAMOOIY	OSDIIEYO	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OSDIIEYO
DAMXCIY	OSDIIEYZ	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OSDIIEYZ
KWIOSKU	OSDIKACA	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OSDIKACA
KWIOSKU	OSDIKACB	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OSDIKACB
KWIOSKU	OSDIKACC	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OSDIKACC
KWIOSKU	OSDIKACD	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OSDIKACD
KWIOSKU	OSDIKACE	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OSDIKACE
KWIOSKU	OSDIKACF	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OSDIKACF
KWIOSKU	OSDIKACG	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OSDIKACG
KWIOSKU	OSDIKACH	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OSDIKACH
KWIOSKU	OSDIKACI	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OSDIKACI
KWIOSKU	OSDIKACJ	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OSDIKACJ
DAMKKKU	OSDIKACK	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OSDIKACK
KWIOSKU	OSDIKACL	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OSDIKACL
KWIOSKU	OSDIKACM	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OSDIKACM
KWIOSKU	OSDIKACN	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OSDIKACN
KWIOSKU	OSDIKACO	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OSDIKACO
KWIOSKU	OSDIKACP	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OSDIKACP
KWIOSKU	OSDIKACQ	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OSDIKACQ
DAMRMKU	OSDIKACR	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OSDIKACR

KWIOSKU	OSDIKACS	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OSDIKACS
KWIOSKU	OSDIKACT	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OSDIKACT
KWIOSKU	OSDIKACU	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OSDIKACU
KWIOSKU	OSDIKACV	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OSDIKACV
KWIOSKU	OSDIKACW	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OSDIKACW
KWIOSKU	OSDIKACX	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OSDIKACX
KWIOSKU	OSDIKACY	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OSDIKACY
KWIOSKU	OSDIKACZ	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OSDIKACZ
DAMMXXH	OSDIMIXH	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OSDIMIXH
DAMDDMS	OSDIMS RD	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OSDIMS RD
DAMOOMS	OSDIMSRO	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OSDIMSRO
QIFPMRB	OSDIRYRO	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OSDIRYRO
SINXTXS	OSDISITX	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OSDISITX
QIFPMRB	OSDISRYO	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OSDISRYO
DAMSDSV	OSDISVAO	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OSDISVAO
DAMSSSV	OSDISVAS	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OSDISVAS
DAMXYSV	OSDISVAX	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OSDISVAX
DAMCTRB	OSDISYRC	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OSDISYRC
DAMSPRB	OSDISYRF	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OSDISYRF
DAMOORB	OSDISYRO	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OSDISYRO
DAMTTRB	OSDISYRT	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OSDISYRT
DAMCCTU	OSDITARC	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OSDITARC
DAMXYTK	OSDITHYX	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OSDITHYX
DAMKKEK	OSDIUA EK	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OSDIUA EK

## 14-QATAR (OTBD)

User Short Name	AFTN Addr Indicator	O/R Address
DOHXYF	OTBDSITA	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OTBDSITA
DOHXZYF	OTHHSITA	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OTHHSITA

## 15-YEMEN (OYSN)

User Short Name	AFTN Addr Indicator	O/R Address
SAHOPIY	OYSNHMYX	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OYSNHMYX
SAHXTIY	OYSNOOIY	/C=XX /A=ICAO /P=SITA /O=AFTN /OU1=OYSNOOIY

**Proposed routings of MID countries to OLBA or OJAM AMHS centers.**

(This is only the proposal for the SITA's routing to OLBA or OJAM based on least hop principle as seen in the COM chart of 22Jun2017.)

AMHS	Country	Nationality Code	Path		
OJAM	Egypt	HE	OJAM	HECA	
OJAM	Jordan	OJ	OJAM**		
OJAM	Libya	HL	OJAM	HECA	HLLT
OJAM	Oman	OO	OJAM	OMAE	OOMS
OJAM	Saudi Arabia	OE	OJAM	OEJN	
OJAM	Sudan	HS	OJAM	OEJN	HSSS
OJAM	United Arab Emirates	OM	OJAM	OMAE	
OJAM	Yemen	OY	OJAM	OEJN	OYSN
OLBA	Bahrain	OB	OLBA	OBII	
OLBA	Iran	OI	OLBA	OBBI	OIII
OLBA	Iraq	OR	OLBA	OSDI	ORBI
OLBA	Kuwait	OK	OLBA	OKBK	
OLBA	Lebanon	OL	OLBA**		
OLBA	Qatar	OT	OLBA	OBBI	OTBD
OLBA	Syria	OS	OLBA	OSDI	

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