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**MIDANPIRG Communication Navigation and Surveillance
Sub-Group (CNS SG)**

Sixth Meeting

(Tehran, Iran, 9 – 11 September 2014)

Agenda Item 5: Performance Framework for CNS Implementation in the MID Region

**SITA AFTN LOW SPEED CONNECTIONS REPLACEMENT
AND AMHS INTERCONNECTION**

(Presented by SITA)

SUMMARY

This working paper presents a summary of the progress made in defining and developing SITA's AMHS environment in view of its future replacement of AFTN connections in cooperation with ICAO EURNAT Region AFSG (Aeronautical Fixed Services Group) and seeks an agreement to define and implement a similar path for SITA's AFTN low speed connections replacement and AMHS interconnection in ICAO MID Region.

Action by the meeting is at paragraph 3.

1. INTRODUCTION

1.1 SITA has been operating an AFTN – Type B gateway for over 40 years. The service is today connected via low speed connections to the AFTN network in several countries. These inter-connections allow ATS organizations and airlines to communicate using AFTN messages on the ATS organizations' side and Type B messages on the airlines' side. The SITA service provides all necessary conversions to enable seamless data exchange between ATS organizations and airlines.

1.2 Several of AFTN low speed connections are reaching End of Life and require a future proof replacement solution based on ICAO AMHS standards.

1.3 This working paper presents the abreast of progress made with ICAO EURNAT Region for SITA's interconnection to AMHS and replacement of AFTN low speed connections and invites the meeting to make appropriate recommendations for SITA AMHS interconnection and AFTN low speed connections changes within ICAO MID Region.

1.4 A similar approach with ICAO APAC Region concluded that specific ANSPs to work with SITA to enable SITA AMHS interconnection within ICAO APAC Region.

2. DISCUSSION

2.1 AMHS is being under active deployment by majority of ANSPs in view of AFTN replacement. Additionally the new rich data formats using XML is planned to be used over the next few years to further improve air traffic management effectiveness which requires the use of new generation messaging based on ICAO AMHS standards.

2.2 The move to this new communication path for SITA requires AMHS and appropriate gateway deployment and interconnections to AMHS in most of ICAO Regions to continue to support data exchange between ATS Organizations which will use AMHS and airlines using Type B or Type X for XML based information such as digital NOTAMs.

2.3 Type X is an IATA reliable messaging standard based on XML and Web service technologies ratified in September 2009 with addressing and routing capabilities based on IATA codes as well as ICAO AFTN addresses indifferently.

2.4 To this end following the ICAO procedures SITA is allocated the PRMD name SITA as a part of ADMD=ICAO. This PRMD name is registered within AMC.

2.5 Subsequently and following ICAO EURNAT AFSG recommendations SITA worked with ICAO EURNAT AFSG - Operations Group to elaborate a detailed architecture for SITA interconnection to AMHS in a mixed AMHS and AFTN environment which specifies the details of addressing and routing for message exchanges between ATS and SITA users.

2.1 AMHS/SITA Interconnection Version 1.0 document is approved during ICAO EURNAT AFSG/17 meeting which took place in Paris from 22 to 26 April 2013, and communicated to all other ICAO Regions on the 21st of June 2013 (**Appendix A** to this working paper).

2.6 Following the technical and operational recommendations elaborated as a part of the AMHS/SITA Interconnection Architecture document, SITA addressing scheme changed from CAAS to XF scheme as C=XX/A=ICAO/P=SITA/O=AFTN/OU=AFTNADDR, where AFTNADDR is an AFTN address of a SITA user.

2.7 AFTN addresses of SITA users exchanging with EUR COM centers are being published in AMC User Address Look-up Table.

2.8 SITA's AMHS Gateway is planned to be operational late 2014 and ready for AMHS interconnections with ANSPs as necessary in replacement of the current AFTN connections.

2.9 In the meantime, it should be necessary to use an AFTN/IP solution due to supplier end of support for low speed circuits, to be replaced by AMHS connection as from end of 2014.

2.10 An agreement with ICAO MID Region provides similar clarification as with ICAO EURNAT Region and an interconnection path with the agreed ANSPs in MID Region to replace the current AFTN low speed connections and to connect to the agreed AMHS countries following AMHS/SITA Interconnection Architecture model.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) discuss and provide comments on the presented material;
 - b) recommend re-use of the AMHS/SITA Interconnection Architecture Document for SITA Interconnection as at **Appendix A**; and
 - c) propose creation of a SITA AMHS Interconnection and AFTN migration plan with the concerned ANSPs in ICAO MID Region.
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AMHS / SITA Type X Interconnection Architecture

SITA Type X Gateway in a mixed AFTN/AMHS environment

| | |
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Scope of the Document

This document has been developed by a Subgroup of the AFSG Operations Group in order to fulfil Task 26 “Study operational issues and potential solutions for the operation of a SITA Type-X gateway in a mixed AFTN/AMHS environment” assigned by the 16th Meeting of the ICAO EUR Aeronautical Fixed Service Group (AFSG).

It provides a description of the current and future gateway architecture and analyses the different communication scenarios and potential solutions for the required address conversion.

Finally, a preferred solution is proposed and a list of resulting requirements is provided in order to ensure further communication between the AFTN/AMHS and the SITA Network based on modern communication protocols.

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1 Introduction

1.1 Purpose of the document

1.1.1 The purpose of the document is to “Study operational issues and potential solutions for the operation of a SITA Type-X gateway in a mixed AFTN/AMHS environment” as it was assigned by the 16th Meeting of the ICAO EUR Aeronautical Fixed Service Group (AFSG) to the AFSG Operations Group.

1.1.2 This document will provide information about the current and future gateway architecture, discuss the different communication scenarios and consider potential solutions for the required address conversion.

1.1.3 The target of the document is to provide a baseline for the selection and promotion of the most appropriate solution in order to ensure future communication between the AFTN/AMHS and the SITA Network based on modern communication protocols.

1.2 Document Structure

1.2.1 *Chapter 1* presents the purpose and the structure of the document.

1.2.2 *Chapter 2* contains a description of today’s communication environment between AFTN and SITA Network.

1.2.3 *Chapter 3* describes the future communication environment between AMHS and SITA Type X Network.

1.2.4 *Chapter 4* discusses the options how the representation of the SITA Type X user by its AFTN address could be defined in order to ensure a seamless communication in a mixed AFTN/AMHS environment.

1.2.5 *Chapter 5* contains the communication requirements for the AMHS/SITA Type X Gateway from the view point of AMHS.

1.2.6 *Chapter 6* lists the requirements concerning Underlying IP Infrastructure between the AMHS in EUR and the AMHS/SITA Type X Gateway.

1.2.7 *Chapter 7* describes the migration scenarios from the current AFTN/SITA Type B network interconnections to the future target architecture of interconnected AMHS and SITA Type X networks.

1.2.8 *Chapter 8* contains the road map for the interconnection between AMHS and the SITA Type X network.

1.2.9 Attachment A provides following tables:

- A.1 Conversion Table AFTN to SITA Type B addresses (IX Table) (Dec 2012)
- A.2 Conversion table SITA to AFTN addresses (XA Table) (Dec 2012)
- A.3 List of AFTN addresses for AFTN origin validation (Dec 2012).

1.2.10 Attachment B provides a list of currently configured SITA Customer AFTN Addresses.

2 Present Communication architecture between AFTN and SITA

2.1 Overview

2.1.1 SITA has been operating AFTN/SITA Type B Gateways for over 40 years. The gateways are currently connected via low and medium speed connections to AFTN COM Centres in several States.

2.1.2 These inter-connections allow SITA customers to communicate with the AFS Network (AFTN/CIDIN) using the message type of their network. The AFTN/SITA Type B Gateway provides the necessary message conversion to enable seamless data exchange between both networks.

2.1.3 Currently SITA operates 32 AFTN/SITA Type B Gateway connections. 15 gateway connections are provided in Europe.

2.1.4 Approximately forty thousand messages are exchanged between SITA and the AFS network on a daily basis.

| | Received by SITA from AFTN | Transmitted by SITA to AFTN | Total |
|--|---|--|--------------|
| Worldwide | 18,883 | 16,394 | 35,277 |
| EUR/NAT Region | 12,803 | 7,089 | 19,892 |
| One typical AFTN/SITA Type B Gateway connection in EUR | 3,788 | 3,242 | 7,030 |

Table 1: Average traffic exchanged between AFTN and SITA network

2.1.5 Globally approximately 1400 SITA addresses, including their allocated AFTN addresses, are configured in the AFTN/SITA Type B Gateways. These pair entries are used for the address translation SITA to AFTN and vice versa in the gateways for the messages sent to and/or received from the AFTN.

2.1.6 An AFTN address table was implemented in the AFTN/SITA Type B Gateways which should provide AFTN originator validation for messages issued by SITA customers. The usage of this function is currently not sufficient.

2.2 European AFTN/SITA Type B Gateway connections

2.2.1 The AFTN/SITA Type B Gateway connections in the EUR/NAT Region are provided with COM Centres in:

- Belgium
- Denmark
- France (2)

- Germany
- Greece
- The Netherlands (2)
- Portugal
- Russian Federation (2)
- Switzerland (2)
- Ukraine (2)

2.2.2 The SITA customers with their dedicated AFTN addresses which are served by the AFTN/SITA Type B Gateways are listed in Attachment B.

2.2.3 The AFTN/SITA Type B Gateways and their respective connections (X.25, low speed) are reaching the end of their lifetime.

2.3 Function of the AFTN/SITA Type B Gateway

2.3.1 A typical interconnection of AFTN and SITA Network by an AFTN/SITA Type B Gateway is shown in Figure 1.

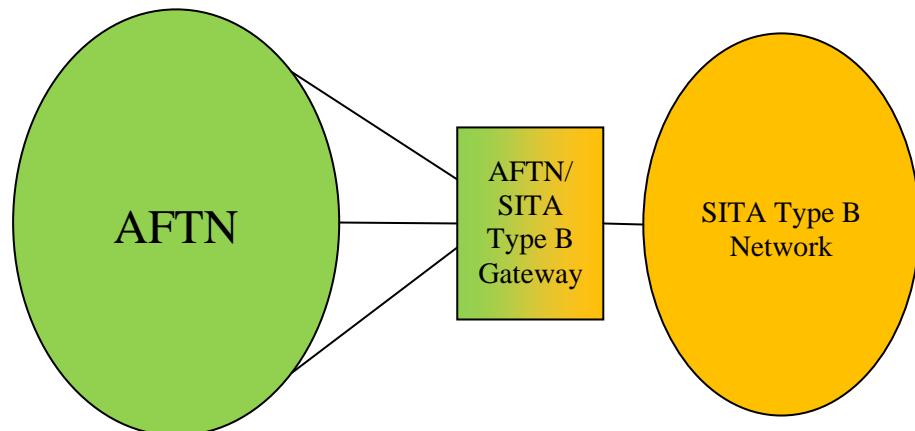


Figure 1: Typical interconnection of AFTN and SITA Network by an AFTN/SITA Type B Gateway

2.3.2 Within the SITA Type B Network the SITA users transmit and receive messages in IATA Type B format.

2.3.3 Within the AFTN the AFS users transmit and receive messages in AFTN format.

2.3.4 The AFTN/SITA Type B Gateways allow SITA users to communicate to the AFTN and convert the messages into the correct format for the respective network.

2.3.5 The function of the AFTN/SITA Type B Gateway is the conversion of addresses and message header from AFTN to SITA Type B and vice versa.

2.4 Message conversion in the AFTN/SITA Type B Gateway

2.4.1 Outgoing conversion methods (from AFTN/SITA Type B Gateway to AFTN)

2.4.1.1 Envelope method

2.4.1.1.1 A SITA customer creates a message which is intended to be sent to an AFS user in AFTN format. This message is sent to the AFTN/SITA Type B Gateway directly by means of a SITA Type B message-envelope. The embedded AFTN message is formally the “text” of the SITA Type B message.

2.4.1.1.2 The AFTN/SITA Type B Gateway strips the SITA Type B envelope before the embedded AFTN message is transmitted from the SITA side to AFTN.

2.4.1.1.3 The embedded AFTN message is routed to the “most appropriate” AFTN/SITA Type B Gateway connection. This means that the routing is performed according the “Routing on Origin” principle to the “nearest” COM Centre related to the AFTN originator address of the embedded AFTN message.

2.4.1.1.4 The following example illustrates the “envelope method”:

Message generated by an SITA customer:

| | |
|--|--|
| QU HDQYFXS .ZRHKKAF 220834 FF LSSSYFYX 220834 LSAZAFRK text = | } SITA Type B header with HDQYFXS as AFTN/SITA Type B Gateway address } Embedded AFTN Message |
|--|--|

Message sent to AFTN:

| | |
|--|----------------|
| FF LSSSYFYX 220834 LSAZAFRK text | } AFTN Message |
|--|----------------|

Example 1: “Conversion” of a message from SITA network to AFTN

Note.– The appropriate Heading and Ending parts of the AFTN message are not shown in the examples.

2.4.1.1.5 In case of Example 1 the “most appropriate” AFTN/SITA Type B Gateway is the gateway in Geneva; the AFTN originator address belongs to LSAZ – Zurich Area, ICAO Nationality Letter: LS, Switzerland.

2.4.1.1.6 The relation between the AFTN originator address of the embedded AFTN message and the origin in the SITA Type B header is not checked (no consistency check). This is under the responsibility of the SITA customer itself.

2.4.1.1.7 However, the gateway checks the syntax of AFTN addresses and compares on SITA Type B site the addresses with specific lists in terms of address and access validity (which should mean that the address is allowed as an originator indicator).

2.4.1.2 Message conversion method

2.4.1.2.1 A SITA customer creates a message which is intended to be sent to an AFS user in AFTN format. In the SITA network this message is routed to an AFTN/SITA Type B Gateway because the SITA Type B address is known as an AFS user outside the SITA Type B network.

2.4.1.2.2 In this case a mapping table (XA Table – mapping SITA to AFTN addresses, see Attachment A, A.2) is used in the AFTN/SITA Type B Gateway to derive the related AFTN Destination addresses. As Originator address, the AFTN address of the respective gateway is used. The AFTN/SITA Type B Gateway creates the AFTN message header and attaches the SITA Type B message as message text.

2.4.1.2.3 A typical message looks like:

Message generated by an SITA customer:

| | | |
|--|---|---|
| QN ATLXTNW .JAOXTXS 123456 FREE TEXT | } | SITA Type B header with ATLXTNW as Destination address routed to the AFTN/SITA Type B Gateway plus message text (FREE TEXT) |
|--|---|---|

Message sent to AFTN:

| | | |
|--|---|--|
| GG KATLNMAZ 123456 WSSSSITX QN ATLXTNW .JAOXTXS 123456 FREE TEXT | } | AFTN Message header attached SITA Message |
|--|---|--|

Example 2: Message conversion from SITA to AFTN

Note.– The appropriate Heading and Ending parts of the AFTN message are not shown in the examples.

2.4.2 Incoming conversion methods (from AFTN to AFTN/SITA Type B Gateway)

2.4.2.1 Envelope method

2.4.2.1.1 A message received from AFTN will be embedded into a SITA Type B envelope by the AFTN/SITA Type B Gateway.

2.4.2.1.2 The SITA address line is deduced from the ICAO priority and the AFTN Destination Address(es) found in the incoming AFTN message.

2.4.2.1.3 The SITA origin line is composed of:

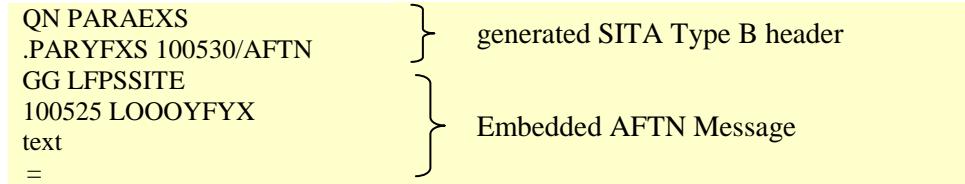
- the SITA Service Address of the AFTN/SITA Type B Gateway connection from where the message has been received,
- the date/time group corresponding to the reception time of the AFTN message, and
- the information “AFTN” to indicate origin of the message.

Message received from AFTN:



Note.– The appropriate Heading and Ending parts of the AFTN message are not shown in the examples.

Message sent to an airline (SITA customer):



Example 3: “Conversion” of a message from AFTN to SITA network

2.4.2.1.4 The AFTN Destination Addresses are converted by means of the IX Table (mapping AFTN to SITA addresses) (see Attachment A, A.1).

2.4.2.1.5 AFTN Destination Addresses which cannot be converted are intercepted as unknown AFTN addresses. The related AFTN COM Centre is informed by an AFTN SVC “ADS UNKNOWN” in order to make corrections or purge.

2.4.2.2 Message conversion method

2.4.2.2.1 In the direction from AFTN to SITA this method is not applied in the AFTN/SITA Type B Gateway.

2.5 Communication scenarios

2.5.1 Introduction

2.5.1.1 The following communication scenarios describe the typical message flows in the current AFTN/SITA Type B environment.

2.5.1.2 The descriptions should help to identify future potential communication requirements.

2.5.1.3 In the scenarios the following communication partners are involved:

- SITA Type B user: The Operations manager of Lufthansa in Frankfurt. His SITA Type B address is FRA2OLH.
- AFTN (AFS) user: The Operator in Tower Heathrow. Its AFTN Address is EGLLZTZ.

2.5.1.4 A fictive message exchange between both communication partners is the base of the following scenarios:

2.5.2 Scenario from SITA to AFTN

2.5.2.1 Message flow

2.5.2.1.1 The SITA Type B user wishes to send a message from his SITA Terminal to the Tower in Heathrow in order to inform them about an event which is not related to IFPS. Figure 2 shows the expected message flow.

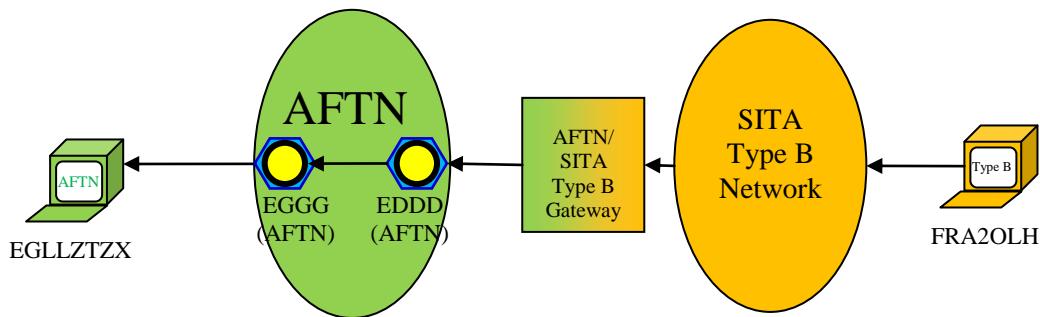


Figure 2: Message flow from a SITA Type B to an AFTN Terminal

2.5.2.2 Generation of the message

2.5.2.2.1 The following message is generated by the Operations manager of Lufthansa in Frankfurt:

| | | |
|--|---|-----------------------|
| QU HDQYFXS .FRA2OLH 220944 | } | SITA Type B header |
| GG EGLLZTZX 220944 EDDFDLHO PLEASE CONFIRM THE FOLLOWING TEXT text = | } | Embedded AFTN Message |

Example 4: Embedded AFTN message

2.5.2.2.2 The message is routed within the SITA Type B network to the AFTN/SITA Type B Gateway.

2.5.2.3 Conversion of the message in the AFTN/SITA Type B Gateway

2.5.2.3.1 The AFTN/SITA Type B Gateway removes the SITA envelope, identifies the appropriate Gateway connection following the principle “Routing by Originator” and finally sends the following AFTN message to the COM Centre Frankfurt:

| | | |
|---|---|--------------|
| GG EGLLZTZX 220944 EDDFDLHO PLEASE CONFIRM THE FOLLOWING TEXT text | } | AFTN Message |
|---|---|--------------|

Example 5: Converted AFTN message

Note.— The appropriate Heading and Ending parts of the AFTN message are not shown in the examples.

2.5.2.4 Switching of the AFTN message by COM Centres EDDD and EGGG

2.5.2.4.1 The COM Centre Frankfurt receives the above message and delivers it via the AFS (COM Centre London) finally to the AFTN Terminal of the Tower of Heathrow EGLLZTZX.

2.5.3 Scenario from AFTN to SITA

2.5.3.1 Message flow

2.5.3.1.1 Due to the content of the AFTN message received, the Operator in the Heathrow Tower will send back to the origin the requested confirmation. Figure 3 shows the expected message flow.

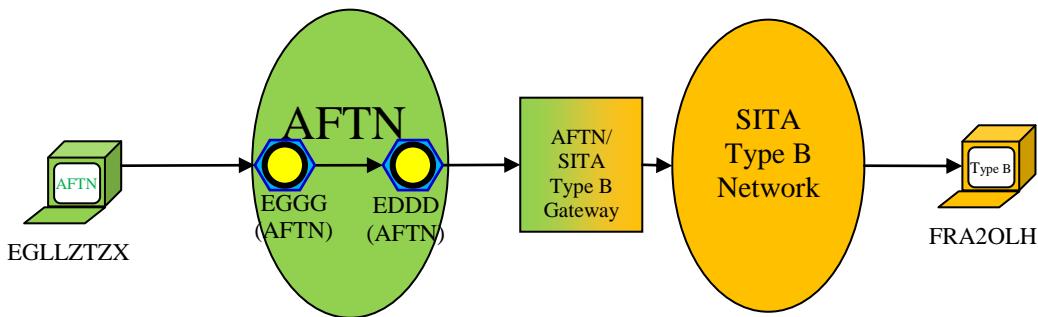


Figure 3: Message flow from an AFTN to a SITA Type B terminal

2.5.3.2 Generation of the message

2.5.3.2.1 The Operator in the Heathrow Tower generates the following AFTN message:

| | |
|---|----------------|
| ZCZC ... GG EDDFDLHO 220954 EGLLZTZX CONFIRM RECEPTION OF YR 220944 EDDFDLHO BRGDS EGLLZTZX NNNN | } AFTN Message |
|---|----------------|

Example 6: Generated reply AFTN message

2.5.3.3 Switching of the AFTN message by the COM Centre EGGG and EDDD

2.5.3.3.1 The COM Centre Frankfurt receives the above message via the AFS (COM Centre London) from the AFTN Terminal of the Tower of Heathrow EGLLZTZX.

2.5.3.3.2 Due to the fact that the COM Centre Frankfurt knows the AFTN address EDDFDLHO as a SITA Type B user, the above message is routed to the AFTN/SITA Type B Gateway interconnected with Frankfurt.

2.5.3.3.3 Within the AFTN Routing Table of COM Centre Frankfurt approximately 15 different AFTN Addresses for SITA Type B users are currently configured and routed to the AFTN/SITA Type B Gateway.

2.5.3.4 Conversion of the message in the AFTN/SITA Type B Gateway

2.5.3.4.1 The AFTN/SITA Type B Gateway derives the necessary attributes for the SITA envelope from the AFTN message and generates the respective SITA Type B message.

2.5.3.4.2 The AFTN address EDDFDLHO is known in the Gateway and the equivalent SITA Type B address FRA2OLH is derived (table oriented address conversion, see IX Table Attachment A, A.1).

2.5.3.4.3 The SITA Type B network will deliver the message to the addressed SITA Type B user.

2.5.3.4.4 The addressed SITA Type B user receives the following SITA Type B message:

| | |
|--|---|
| QN FRA2OLH .FRAYFXS 220956/AFTN FF EDDFDLHO 220954 EGLLZTZX CONFIRM RECEPTION OF YR 220944 EDDFDLHO BRGDS EGLLZTZX = | } SITA Type B header } embedded AFTN Message |
|--|---|

Example 7: Embedded AFTN message (Reply)

2.5.3.5 Address conversion principle in the AFTN/SITA Type B Gateway

2.5.3.5.1 In the AFTN/SITA Type B Gateway the following address conversion principle within message conversion from AFTN to SITA Type B is used:

| AFTN Address (8 letter) | into | SITA Type B address (7 letter) |
|--|------|---|
| Location indicator (4 letter, position 1-4) | → | IATA Location code (3 letter, position 1-3) |
| Three letter designator (3 letter, position 5-7) | → | IATA Airline code (2 letter, position 6-7) |
| Filler letter "X" or letter representing a department or division within the organization addressed (1 letter, position 8) | → | Department code (2 letter, position 4-5) |

Table 2: Address conversion principle AFTN into SITA Type B

2.5.3.5.2 The address conversion tables for both directions of the AFTN/SITA Type B Gateway as of December 2012 are provided in Attachment A.

2.5.4 Remarks regarding the message flow in the communication scenarios

2.5.4.1 For the message flow from AFTN to SITA, the AFTN COM Centres with interconnection to a SITA Type B Gateway have configured in their AFTN Routing Tables only the AFTN addresses of those SITA Type B users which are served locally.

2.5.4.2 AFTN addresses for SITA Type B users served by other COM Centres are not known and therefore not configured. Today, there is no specific indication in an AFTN address identifying a SITA Type B user in the AFTN.

2.5.4.3 For handling of exceptional cases, some COM Centres agreed special procedures bilaterally with adjacent COM Centres to ensure a coordinated routing of AFTN addresses for “other local” SITA Type B users.

2.6 Other European AFTN/SITA connections

Besides the AFTN/SITA Type B Gateways operated by SITA, two other kinds of interconnection between AFTN and SITA exist:

- AFTN connections to dedicated systems on SITA sites; and
- AFTN/SITA Type B Gateways operated by ANSPs or Organisations

2.6.1 AFTN connections to dedicated systems on SITA sites

2.6.1.1 As an example for this kind of AFTN connections, the AFTN low speed connection between the UK message switch of COM Centre London and the SITA MET data servers is mentioned. On this connection circa 40,000 messages are transmitted daily.

2.6.1.2 The AFTN addresses used for sending data to the SITA MET system are UK addresses configured in the COM Centre London to be routed to SITA. These addresses represent SITA users, which have to be taken into account in exceptional situations as well as if this connection is migrated to AMHS.

2.6.1.3 Currently no other connection of this kind exists in Europe. A second one is established to the COM Centre operated by NAV Canada.

2.6.1.4 Even if such connections are separated from the current Type B messaging environment and not used for exchanges between SITA Type B users and AFS users, it is extremely important to be aware of any AFTN links that are in place, regardless of whether they are connected directly to systems or via gateways.

2.6.1.5 Due to the global nature of the interconnections between AFS and SITA these connections have to be known and taken into account in the planning of any future migration.

2.6.2 Non-SITA AFTN/SITA Type B Gateways

2.6.2.1 Additionally to the AFTN/SITA Type B Gateways operated by SITA as mentioned in the previous Sections 2.1 to 2.5, a number of AFTN/SITA Type B Gateways are operated under the responsibility of ANSPs, Organisations and/or State COM Centres.

2.6.2.2 The functions of these gateways are identical to the functions described in Section 2.3.

2.6.2.3 These Gateways are connected directly to the SITA Type B messaging environment using the SITA Type B messaging format.

2.6.2.4 The AFTN routing to the Gateway is a local matter and transparent for the international network. The AFTN addresses used for the message exchange (AFTN addresses representing SITA users and the AFTN addresses of AFS users) are locally known and configured.

2.6.2.5 The number of existing Gateways in Europe and worldwide is not documented at the AFS side. However, due to the global nature of the interconnections between AFS and SITA these gateway connections have to be respected in the planning of any future migration.

2.6.2.6 A special case is the Access Node to the SITA Type B network operated by EUROCONTROL, Network Manager (NM).

2.6.2.7 Currently it is ensured that between the both networks, AFTN and SITA Type B, no interconnection is established. The concerned applications (IFPS¹ and ATFMS²) are operating independently with the separated networks.

2.6.2.8 This separation shall be continued from the AFS point of view when the AFTN/CIDIN communication of the EUROCONTROL, Network Manager (NM) applications is migrating to AMHS.

¹ Integrated Initial Flight Plan Processing System

² Advanced Tactical Flow Management System

3 Description of future architecture

3.1 Evolution of the SITA messaging environment

3.1.1 The evolution of the SITA messaging environment is based on the IATA Type X Messaging Specification [11], which is a messaging standard based on XML and Web service technologies ratified by IATA in September 2009.

3.1.2 IATA Type X standard supports message delivery between SITA Type X users.

3.1.3 The communication between SITA Type X users and users outside of the Type X environment is ensured via dedicated Type X Gateways. In case of AMHS, the dedicated gateway is called for the purpose of this document “AMHS/SITA Type X Gateway”.

3.1.4 All addresses in the Type X Messaging environment (Destination and Originator addresses) are of ***TXM_Address*** type composed of three elements according to [11], 4.5:

- One **TypeX_address**,
- Zero or one **SubAddress**,
- Zero or one **FreeFormName**.

3.1.5 The **TypeX_address** is the logical address of a specific user. The **SubAddress** is specified for nodes that are not addressable directly by a Type X address (the **SubAddress** carries the actual originator or receiver address in its own messaging environment). The **FreeFormName** associates an optional name. ([11], 4.5)

3.1.6 In the context of AMHS only the **TypeX_address** is relevant which consists of:

- one **City** field to identify a city code (or location code),
- one **Department** field to identify a department code,
- one **Airline** field to identify an airline or more generally an organisation code,
- **Auxiliary** field (to identify an organisation using a shared airline code).
This field is not used for AMHS communication.

3.1.7 The relevant fields of the Type X address itself consists of:

- City Code: on 3 or 4 alphabetic characters (IATA or ICAO code)
- Department Code: on 1 to 3 alphanumeric characters
- Airline Code: on 2 or 3 alphanumeric characters (IATA or ICAO code)

3.1.8 Type X City, Department and Airline codes correspond to the current Type B address city, department and airline codes, keeping the possibility to increase each field by 1 character. ([11], 14.1)

3.1.9 A Type X Address (**TypeX_address**) is defined in XML as:

```
<TYPEX_Address>
  <Airline>airlinecode</Airline>
  <City>citycode</City>
  <Department>departmentcode</Department>
</TYPEX_Address>
```

3.1.10 From the above Type X Address (*TypeX_address*) other address elements are derived to ensure an optimal routing of the messages in the Type X environment (e.g. the Type X gateway address used in the transport header for identifying the target Type X node). The full address of the end user is composed of the Type X gateway address completed by the end user address in its own messaging environment. (see [11], 14.1)

3.1.11 The routing of the message is performed according to the Type X gateway address up to the gateway. (see 4.3 and 4.4 of [11])

3.1.12 In the context of communication to and from AMHS, the Type X addresses always represents AFTN Addresses both as Destination and as Originator. Therefore in a message sent to AMHS the originator address consists of the Type X address representing the AFTN address of the SITA user, which could be the same as used today in the SITA Type B environment.

3.1.13 To ensure the correct routing within the SITA Type X network, all Type X addresses with 4 letters in the address attribute “City” (ICAO code) are listed in tables in which for the full qualified AFTN address the corresponding target Type X node (Type X gateway address) is assigned. Such a target Type X node (Type X gateway address) can be either the AMHS/SITA Type X Gateway (if AFS users are addressed) or the Type X node serving the SITA user.

3.1.14 More comprehensive details could be found in [11].

3.2 AMHS/SITA Type X Gateway

3.2.1 The AMHS/SITA Type X Gateway is the “bridge” between AMHS and the SITA Type X messaging environment. The typical interconnection between the existing and future networks is shown in Figure 4.

3.2.2 The AMHS/SITA Type X Gateway can be connected to an AMHS COM Centre which also provides, during the transition, AFTN/AMHS Gateway services for AFTN/CIDIN users. In such a configuration the AMHS/SITA Type X Gateway is not only connected to the AMHS - it is connected to an AFTN/AMHS Gateway as well.

3.2.3 SITA plans to establish two AMHS/SITA Type X Gateways with one connection to Europe and one to Asia (see Figure 4).

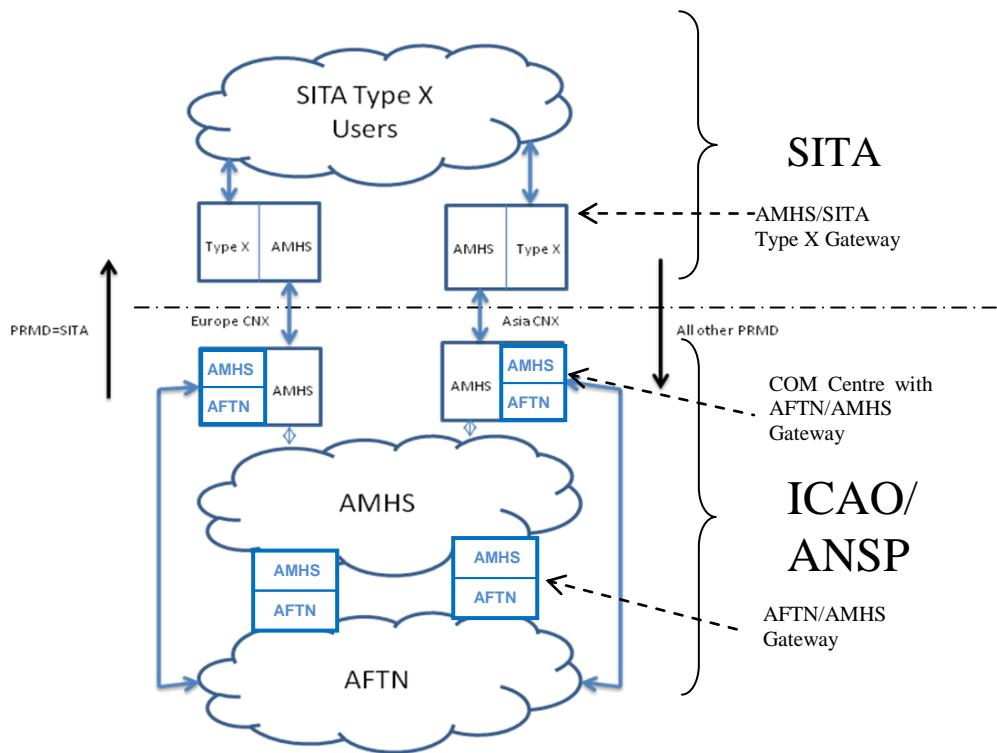


Figure 4: Planned interconnections between AFTN, AMHS and SITA Type X Network

3.3 Message and address conversion in the AMHS/SITA Type X Gateway

3.3.1 The move to the new communication environment at SITA side (Type X) requires interconnection to AMHS in the near future to enable continued support of data exchange between ATS Organizations using AMHS and SITA customers using Type X communication.

3.3.2 The guiding principle should be to provide address transparency to both kind of users (AMHS and SITA Type X).

3.3.3 An AMHS user within the AMHS network should be able to address a SITA Type X user using its AMHS address (SITA Type X users are being seen as AMHS user with PRMD=SITA).

3.3.4 A SITA Type X user within the SITA Type X network should be able to address an AMHS user using the corresponding Type X address (AMHS users are being seen in the SITA Type X environment as SITA Type X users in principle, with an ICAO code in the Type X address element "City". All Type X address elements are derived from the AFTN address within the O/R address – either common-name or organisational-unit-name-1 depending on the addressing scheme).

3.3.5 The AMHS originator address of a SITA Type X user will be created in the AMHS/SITA Type X Gateway. In accordance with the addressing scheme declared by SITA, the generic resulting O/R address representing the SITA Management Domain (PRMD=SITA) will look like:

CAAS: /C=XX/A=ICAO/P= SITA/O= TYPE-X/OU1=<LOC1>/CN=<AFTNADDR>

Where <AFTNADDR> – AFTN address representing the SITA Type X user and
 <LOC1> – first four letters of the <AFTNADDR>

3.3.6 The AMHS/SITA Type X Gateway supports the conversion of message delivery reports which could be mapped to equivalent AMHS delivery reports and vice versa, facilitating end to end delivery assurance and tracking in an interconnected environment.

3.4 Communication scenarios in a mixed AFTN/AMHS environment

3.4.1 Introduction

3.4.1.1 The following communication scenarios describe typical expected message flows between a SITA Type X Gateway and two different AFS environments:

1. a pure AMHS communication environment,
2. a mixed AFTN/AMHS communication environment.

3.4.1.2 Resulting potential requirements for future communication will be summarised in Chapter 5.

3.4.1.3 In the scenarios following communication partners are involved:

- SITA Type X user: The Station manager of Air France in Paris Charles de Gaulle airport. His SITA Type X address in XML format (TypeX_address – Type X Address) is:
<Airline>AFR</Airline>
<City>LFPG</City>
<Department>X</Department>
which is equivalent to the AFTN address LFPGAFRX representing the SITA user in the AFTN environment.
- Direct AMHS User: The Operator of Tower in Madrid
His AMHS O/R address is /C=XX/A=ICAO/P=SPAIN
/O=LECM/OU1=LEMA/CN=LEMAZTZX.
His AFTN Address is LEMAZTZX.
- AFTN (AFS) user: The Operator of Tower in Ibiza. His AFTN Address is LEIBZTZX.
His indirect AMHS user address (O/R address) is:
/C=XX/A=ICAO/P=SPAIN /O=LECM/OU1=LEIB/CN=LEIBZTZX.

3.4.1.4 A fictive message exchange among them is the base of the following scenarios:

3.4.2 Scenario from SITA Type X to AMHS

3.4.2.1 Message flow

3.4.2.1.1 The SITA Type X user wishes to send a message from its SITA Type X Terminal to the Direct AMHS User in order to inform him about a special event which requires an active answer.

3.4.2.1.2 Figure 5 shows the Message flow from a SITA Type X terminal to an AMHS User Agent (UA) via the involved network elements. The switching nodes within the AMHS are the MTAs (Message transfer agents) while at SITA side Type X nodes are used.

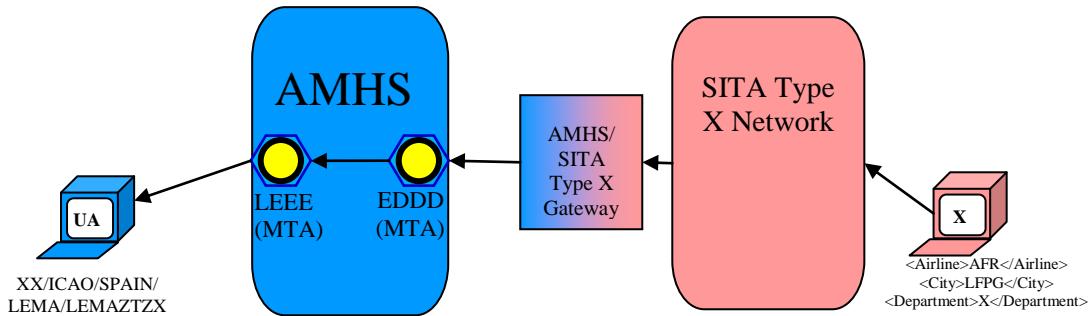


Figure 5: Message flow from a SITA Type X terminal to an AMHS UA

3.4.2.2 Generation of the message

3.4.2.2.1 The following message is generated by the Station manager of Air France in Paris Charles de Gaulle airport (SITA Type X user).

| | | |
|--|---|---------------------------------|
| <pre><Airline>AFR</Airline> <City>LFPG</City> <Department>X</Department></pre> | } | SITA Type X Originator address |
| <pre><Airline>ZTZ</Airline> <City>LEMA</City> <Department>X</Department></pre> | | SITA Type X Destination Address |
| <pre>PLEASE CONFIRM THE FOLLOWING TEXT text =</pre> | } | Message text |

Example 8: Type X message

Note.— In this example only a part of the Type X message schema is shown. For the full Type X message schema see [11].

3.4.2.2.2 The SITA Type X Destination Address (**TypeX_address**) defines the targeted receiver.

3.4.2.2.3 In this example the SITA Type X message is routed within the SITA Type X network to the AMHS/SITA Type X Gateway, due to the ICAO code in the Type X address attribute “City” and the resulting mapping of the full Type X address.

3.4.2.3 Conversion of the message in the AMHS/SITA Type X Gateway

3.4.2.3.1 The AMHS/SITA Type X Gateway converts the Type X message and its attributes into an AMHS (X.400) message.

3.4.2.3.2 The following main AMHS attributes / X.400 message elements form the AMHS Message:

| | |
|--|--|
| /C=XX/A=ICAO/P=SPAIN/O=LECM/OU1=LEMA/CN=LEMAZTZX /C=XX/A=ICAO/P=SITA/O=TYPE-X/OU1=LFPG/CN=LFPGAFRX GG 220944 PLEASE CONFIRM THE FOLLOWING TEXT text | - X.400 Recipient address - X.400 Originator address - Message Priority - Filing time } Message text |
|--|--|

Example 9: Main attributes of an AMHS message

Note.– LFPGAFRX represents the AFTN address of the SITA Type X user.

3.4.2.3.3 The converted message (AMHS) is sent from the AMHS/SITA Type X Gateway MTA to the MTA of the adjacent COM Centre; in this scenario MTA-EDDD-1.

Note.– The AMHS/SITA Type X Gateway needs to include an MTA in order to be able to communicate with AMHS COM Centres.

3.4.2.4 Switching of the AMHS message by the MTA of the involved COM Centres EDDD and LEEE

Note.– In AMHS a COM Centre will be represented technically by its MTA.

3.4.2.4.1 The MTA-EDDD-1 will receive the above message and forward the message to MTA-LEEE-1 (PRMD=SPAIN) which will deliver the message to the User Agent (UA) of the Madrid Tower – /C=XX/A=ICAO/P=SPAIN/O=LECM/OU1=LEMA/CN=LEMAZTZX.

3.4.3 Scenario from SITA to AFTN via AMHS

3.4.3.1 Message flow

3.4.3.1.1 Assume that the above SITA Type X user (Station manager of Air France in Paris Charles de Gaulle airport) has addressed the Tower of Ibiza equipped with an AFTN Terminal (LEIBZTZX) instead of the Direct AMHS User “Madrid Tower”. Figure 6 shows the expected message flow.

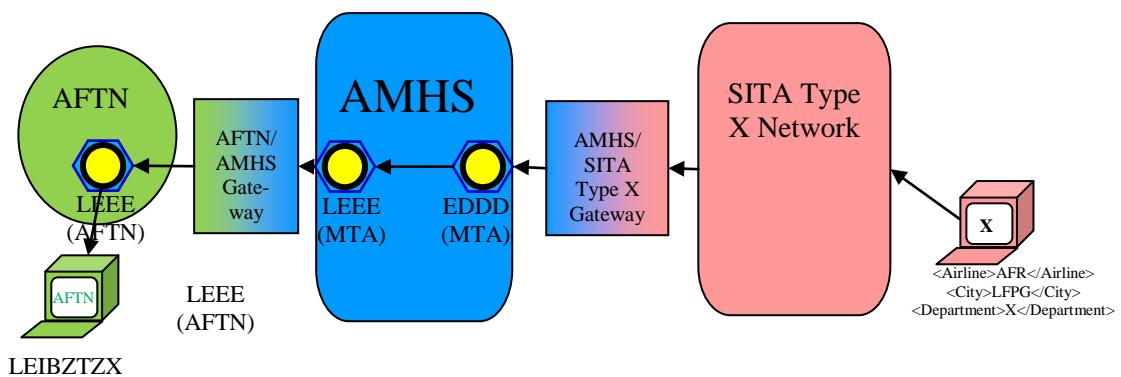


Figure 6: Example for a Message flow from SITA Type X to AFTN via AMHS

3.4.3.1.2 In this case, the message flow is the same till MTA-LEEE-1 as described in the previous flow, but the MTA-LEEE-1 will route the message to the MTCU of the AFTN/AMHS Gateway of COM Centre LEEE.

3.4.3.2 Conversion of the message in the AFTN/AMHS Gateway

3.4.3.2.1 The AFTN/AMHS Gateway of COM Centre LEEE converts the message to an AFTN message using the described AMHS message attributes:

| | |
|---|--|
| /C=XX/A=ICAO/P=SPAIN/O=LECM/OU1=LEIB/CN=LEIBZTZX /C=XX/A=ICAO/P=SITA/O=TYPE-X/OU1=LFPG/CN=LFGAFRX GG 220944 PLEASE CONFIRM THE FOLLOWING TEXT text | - X.400 Recipient address - X.400 Originator address - Message Priority - Filing time } Message text |
|---|--|

Example 10: Main attributes of the AMHS message to “Ibiza Tower”

3.4.3.2.2 The following AFTN message is generated by the AFTN/AMHS Gateway of COM Centre LEEE:

| | |
|--|----------------|
| ZCZC GG LEIBZTZX 220944 LFGAFRX PLEASE CONFIRM THE FOLLOWING TEXT text NNNN | } AFTN Message |
|--|----------------|

Example 11: Converted AFTN message to “Ibiza Tower”

3.4.3.2.3 The AFTN part of the COM Centre LEEE receiving the above message from the AFTN/AMHS Gateway forwards it to the AFTN Terminal of the Tower of Ibiza LEIBZTZX.

3.4.4 Scenario from AMHS to SITA

3.4.4.1 Message flow

3.4.4.1.1 Due to the content of the AMHS message received, the Operator in the Madrid Tower sends back to the originator the requested confirmation. Figure 7 shows the expected message flow.

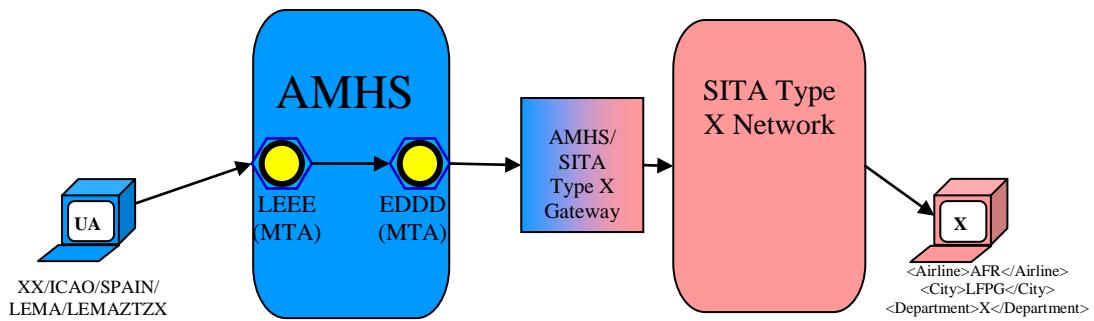


Figure 7: Example for a Message flow from SITA Type X to AMHS

3.4.4.2 Generation of the message from a UA

3.4.4.2.1 The Operator in the Madrid Tower creates an AMHS message with following AMHS/X.400 attributes at his User Agent (UA):

| | |
|--|--|
| /C=XX/A=ICAO/P=SITA/O=TYPE-X/OU1=LFPG/CN=LFPGAFRX /C=XX/A=ICAO/P=SPAIN/O=LECM/OU1=LEMA/CN=LEMAZTZX GG 220954 CONFIRM RECEPTION OF YR 220944 LFPGAFRX BRGDS LEMAZTZX | - X.400 Recipient address - X.400 Originator address - Message Priority - Filing time } Message text |
|--|--|

Example 12: Main attributes of the AMHS message from UA

3.4.4.2.2 The User Agent (UA) submits the AMHS message to MTA-LEEE-1.

3.4.4.3 Switching of the AMHS message by the COM Centre MTAs (LEEE, EDDD)

3.4.4.3.1 The MTA-LEEE-1 routes PRMD=SITA to MTA-EDDD-1 while MTA-EDDD-1 routes PRMD=SITA to the MTA of the AMHS/SITA Type X Gateway.

3.4.4.3.2 In the X.400 Routing Tables of all MTAs a routing entry for PRMD=SITA is provided. This is also valid for each other PRMD name.

3.4.4.4 Conversion of the message in the AMHS/SITA Type X Gateway

3.4.4.4.1 The AMHS/SITA Type X Gateway derives all necessary information for the SITA Type X message from the AMHS message attributes.

3.4.4.4.2 The addressed SITA Type X user receives the following SITA Type X message:

| | |
|--|---|
| <Airline>ZTZ</Airline> <City>LEMA</City> <Department>X</Department> <Airline>AFR</Airline> <City>LFPG</City> <Department>X</Department> CONFIRM RECEPTION OF YR 220944 LFPGAFRX BRGDS LEMAZTZX = | } SITA Type X Originator address } SITA Type X Recipient address } Message text |
|--|---|

Example 13: Converted Type X message

3.4.4.5 Address conversion principle in the AMHS/SITA Type X Gateway

3.4.4.5.1 In the AMHS/SITA Type X Gateway following mapping for the address conversion from AMHS to SITA Type X is used:

| AFTN address | → | SITA Type X address (8 letter) |
|---------------------|---|--------------------------------|
| (example: LEMAZTZX) | | |

| | | |
|--|---|----------------------------|
| Location indicator (4 letters) | → | <City>LEMA</City> |
| Three letter designator (3 letters) | → | <Airline>ZTZ</Airline> |
| Filler letter "X" or letter representing a department or division within the organization addressed (1 letter) | → | <Department>X</Department> |

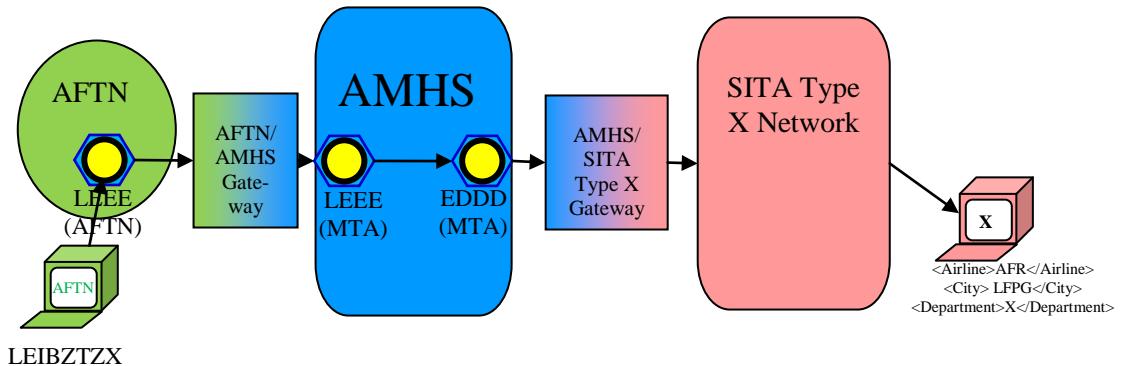
Table 3: Address conversion principle AMHS into SITA Type X

3.4.4.5.2 In the AMHS/SITA Type X Gateway the validity and access rights of the converted addresses are checked using the table based approach.

3.4.5 Scenario from AFTN via AMHS to SITA

3.4.5.1 Message flow

3.4.5.1.1 Different to the above scenario, the Tower of Ibiza (Indirect AMHS User) replies to the message provided in 3.4.3 from its AFTN Terminal (LEIBZTZX). Figure 8 shows the expected message flow.

**Figure 8: Example for a Message flow from AFTN to SITA Type X via AMHS**

3.4.5.2 Generation of the message from an AFTN terminal

3.4.5.2.1 The Tower Operator of Ibiza (Indirect AMHS User) creates from its AFTN Terminal following responding AFTN message:

| | | |
|--|---|--------------|
| ZCZC ... GG LFPGAFRX 220954 LEIBZTZX CONFIRM RECEPTION OF YR 220944 LFPGAFRX BRGDS LEIBZTZX NNNN | } | AFTN Message |
|--|---|--------------|

Example 14: Generated AFTN message from “Ibiza Tower”

3.4.5.3 Switching of the AFTN message by the COM Centre serving LEIBZTZX

3.4.5.3.1 The AFTN part of the COM Centre in Madrid receiving the above message from the AFTN Terminal of the Tower of Ibiza LEIBZTZX forwards the message to the AFTN/AMHS Gateway.

3.4.5.3.2 **Attention:** The above AFTN message with Destination Address LFPGAFRX is only routed to the AFTN/AMHS Gateway in Madrid, if a full qualified entry for LFPGAFRX in the AFTN Routing Table exists pointing to the AFTN/AMHS Gateway. In all other cases the message will be routed in accordance with the routing of the Nationality Letters LF to the COM Centre of France in Bordeaux.

3.4.5.4 Message conversion in the AFTN/AMHS Gateway

3.4.5.4.1 The AFTN/AMHS Gateway converts the AFTN message into an AMHS message with following AMHS message attributes:

| | |
|---|----------------------------|
| /C=XX/A=ICAO/P=SITA/O=TYPE-X/OU1=LOC1/CN=LFPGAFRX | - X.400 Recipient address |
| /C=XX/A=ICAO/P=SPAIN/O=LECM/OU1=LEIB/CN=LEIBZTZX | - X.400 Originator address |
| GG | - Message Priority |
| 220954 | - Filing time |
| CONFIRM RECEPTION OF YR 220944 LFPGAFRX | } Message text |
| BRGDS LEIBZTZX | |

Example 15: Main attributes of the AMHS message from “Ibiza Tower”

3.4.5.4.2 **Attention:** The address conversion of the AFTN Address “LFPGAFRX” into an O/R address of PRMD=SITA is only possible if the AFTN/AMHS Gateway is able to identify this address as an address representing a SITA Type X user. Otherwise this address would be converted into a “national” (French) O/R address and routed accordingly. In that case the message would never reach the AMHS/SITA Type X Gateway and so never reach the intended SITA Type X user.

3.4.5.5 Switching of the AMHS message by the involved COM Centre MTAs

3.4.5.5.1 In the positive case that the AFTN/AMHS Gateway has converted the AFTN message correctly in an AMHS message, the MTA-LEEE-1 routes PRMD=SITA to MTA-EDDD-1 while MTA-EDDD-1 routes PRMD=SITA to the MTA of the AMHS/SITA Type X Gateway.

3.4.5.6 Conversion of the message in the AMHS/SITA Type X Gateway

3.4.5.6.1 The message is converted as described in 3.4.4.4 and finally delivered to the addressed SITA Type X user.

3.5 Transitional aspects from SITA Type B to SITA Type X

3.5.1 With the evolution of the SITA messaging environment by creating the SITA Type X network, a Type B/Type X Gateway is in operation on SITA side in order to ensure the reachability of former Type B users migrated to Type X capabilities.

3.5.2 There are two migration scenarios in the SITA messaging environment:

- migration of the end users from Type B to Type X capabilities; and
- migration from AFTN Type B to AMHS Type X gateways.

3.5.3 The Type B/Type X Gateway will be used during both migration scenarios on SITA side which is seen as a longer process.

3.5.4 From the view point of the AFS (either AFTN or AMHS) the Type B/Type X Gateway ensures that a SITA user remains reachable independent of an AFTN/SITA Type B Gateway or an AMHS/SITA Type X Gateway being used for communication.

3.5.5 This configuration matter is under the responsibility of SITA and will be ensured in line with the progress of the different migration scenarios.

4 Representation of SITA Type X users by their AFTN addresses

4.1 Introduction

4.1.1 In a mixed AFTN/AMHS environment it is essential – as described in 3.4.5.3.2 (AFTN Routing) and 3.4.5.4.2 (Address Conversion) – that all AFTN addresses representing SITA Type X users can be identified as such.

4.1.2 In the following Section the options will be discussed how an AFTN Address could be identified to represent a SITA Type X user. Two principle options are seen:

- Table based identification of SITA Type X users
- Use of a unique first letter in the AFTN address for SITA Type X users

4.2 Discussion of the options

4.2.1 Option 1: Table based identification of SITA Type X users in AFTN

4.2.1.1 Principle

4.2.1.1.1 All SITA Type X users are listed with their AFTN addresses and O/R addresses (PRMD=SITA) in a special table.

4.2.1.1.2 This table will be used in:

- AFTN COM Centres to configure the exceptional AFTN Routing for all AFTN addresses representing SITA Type X users, and
- AFTN/AMHS gateways to configure the respective User address look-up table.

4.2.1.2 Exceptional routing of AFTN addresses representing SITA Type X users

4.2.1.2.1 In the AFS all messages with AFTN addresses representing SITA Type X users have to be routed towards the nearest AMHS island with a AMHS/SITA Type X connection (either in Europe or in Asia).

4.2.1.2.2 In order to fulfil this AFTN Routing requirement, certain AFTN COM Centres need additional entries in their AFTN Routing table for SITA Type X users. These entries are required in the AFTN COM Centre to ensure that the messages addressed to SITA are forwarded to an AFTN/AMHS Gateway.

4.2.1.2.3 The exceptional AFTN Routing must be configured in the following categories of AFTN COM Centres:

- a) AFTN COM Centres of States with AFTN addresses of SITA users;
- b) COM Centres with AFTN/AMHS Gateways;
- c) AFTN COM Centres which are in the routing path between an AFTN COM Centre corresponding to case a) above, and the nearest COM Centre corresponding to case b) above.

4.2.1.2.4 In an environment with few AFTN/AMHS Gateways, it could be needed to configure the exceptional routing in all AFTN Centres. Conversely, category c) is not required, if all COM Centres of category a) above either include an AFTN/AMHS Gateway or are adjacent to a COM Centre with an AFTN/AMHS Gateway.

4.2.1.3 Address conversion of AFTN addresses representing SITA Type X users

4.2.1.3.1 In the table based option the table mentioned in 4.2.1 provides the mapping of AFTN addresses of SITA Type X users to the O/R address with PRMD=SITA.

4.2.1.3.2 In the AFTN/AMHS Gateways the table based address conversion is done by means of the User address look-up table.

4.2.1.3.3 The mapping of AFTN addresses of SITA Type X users to the PRMD=SITA can only ensure that those messages are routed correctly to the AMHS/SITA Type X Gateway within the AMHS network.

4.2.1.3.4 As an example, if not contained in the User address look-up table, the AFTN address LFPSSITN would be converted in the AFTN/AMHS gateway according to standard conversion rule for French AFTN addresses to :
/C=XX/A=ICAO/P=FRANCE/O=LFFF/OU1=LFPS/CN=LFPSSITN.

4.2.1.3.5 However LFPSSITN is actually an AFTN address associated with a SITA Type X user so that it shall be routed to the AMHS/SITA Type X Gateway. Therefore, considering the above SITA – AMHS addressing scheme, LFPSSITN must be converted to /C=XX/A=ICAO/P=SITA/O=TYPE-X/OU1=LFPS/CN=LFPSSITN by use of the respective User address look-up table entry.

4.2.1.3.6 The same User address look-up table entries must be configured in all AFTN/AMHS gateways worldwide.

4.2.1.4 Pros

- No change of AFTN addresses representing SITA Type X users is required; all current SITA users can maintain their AFTN addresses.
- The principle of the address conversion option is described in the AMHS documentation (Doc 9880) and implemented in the AFTN/AMHS Gateways.
- This option is aligned with a fully transitioned AMHS solution.
- No update of any ICAO documentation (i.e. Doc 9880, Doc 7910) is required.
- This option is a solution which could be introduced quickly and without any risk.
- In a later stage, the big amount of information used in the User address look-up tables could be provided automatically via the European Directory Service (EDS), if available.

4.2.1.5 Cons

- The option will require the maintenance of a large User address look-up table in each AMHS COM Centre operating an AFTN/AMHS Gateway.

- Those AMHS COM Centres have to configure in their AFTN Routing tables the exceptional routing for all AFTN addresses present in the User address look-up table in direction to their MTCU.
- Other AFTN COM Centres may also have to configure an exceptional routing but in direction to a COM Centre nearby or related to an AFTN/AMHS Gateway to ensure that SITA Type X user related AFTN addresses are finally routed to a Gateway correctly.
- The EDS is not yet available.

4.2.2 Option 2: Use of a unique first letter in the AFTN address for SITA Type X users

4.2.2.1 Principle

4.2.2.1.1 The AFTN Address representing a SITA Type X will start with a unique first letter, e.g. "X" which means de facto the allocation of an AFS Routing Area "X".

4.2.2.1.2 The AFTN addresses with a unique first letter have the following structure:

| AFTN Address (8 letter) | derived from | SITA Type X address (7 letter) |
|--|--------------|--------------------------------|
| "X" first letter of Location indicator | | |
| 2 nd -4 th letter of Location indicator | ← | IATA Airport code (3 letter) |
| Three letter designator (3 letter) | ← | ICAO Airline code (3 letter) |
| Filler letter "X" or letter representing a department or division within the organization addressed (1 letter) | ← | Department code (1 letter) |

Table 4: AFTN address structure of a SITA Type X user in option 2

4.2.2.1.3 The AFTN Address representing a SITA Type X could be assigned easily in the AMHS/SITA Type X Gateway as follows:

| SITA Type X user | SITA Type X address | Assigned AFTN address |
|--|--|-----------------------|
| Operations manager of Lufthansa in Frankfurt | <Airline>DLH</Airline> <City>FRA</City> <Department>O</Department> | XFRADLHO |
| Station manager of Air France in Paris Charles de Gaulle airport | <Airline>AFR</Airline> <City>CDG</City> <Department>T</Department> | XCDGAFRT |

Table 5: SITA Type X and AFTN addresses of SITA Type X users in option 2

4.2.2.2 Routing of AFTN addresses representing SITA Type X users

4.2.2.2.1 All AFTN addresses representing SITA Type X users can be routed towards the nearest AMHS island with an AMHS/SITA Type X connection by the routing indicator “X”.

4.2.2.2.2 In order to fulfil this AFTN routing requirement in all AFTN COM Centres only one additional entry (X for routing to the next AFTN/AMHS Gateway) is required.

4.2.2.3 Address conversion of AFTN addresses representing SITA Type X users

4.2.2.3.1 In the AFTN/AMHS Gateway the address conversion would be done as for other AFTN addresses.

4.2.2.3.2 Only one additional entry needs to be inserted into the MD Look-up table and in the CAAS table. No entries are required in the **User address look-up table**.

4.2.2.3.3 All SITA Type X users communicating with the AFTN are identified by the AFTN address starting with “X”. The address conversion is done with one general rule in the AFTN/AMHS Gateway. All AFTN addresses belonging to the AFS Routing Area “X” are converted to /C=XX/A=ICAO/P=SITA/O=TYPE-X/OU1= .../CN=... with the Location indicator in OU1 and the AFTN address in CN.

| AFTN address | O/R address |
|--------------|---|
| XFRADLHO | /C=XX/A=ICAO/P=SITA/O=TYPE-X/OU1=XFRA/CN=XFRADLHO |

Example 16: Conversion of XFRADLHO into O/R address

4.2.2.4 Pros

- The AFTN/AMHS address conversion could be employed for either XF or CAAS addressing as it is done for all other AFTN addresses.
- Each user from outside the AFTN and reachable via a dedicated Gateway is uniquely (one-to-one) identified within the AFTN.
- The routing tables in all AFTN COM Centres worldwide require only one additional entry (to route ‘X’...).

- Traditional AFTN routing could be employed, no exceptional routing entries required.

4.2.2.5 Cons

- A general change of all AFTN addresses for SITA users (currently used and locally known AFTN addresses become invalid).
- This option needs to be discussed in ICAO level. It has to be taken into account that this option has already been rejected by ICAO once.
- An update of Doc 7910 is required to introduce the new AFS Routing Area (the SITA “locations” are listed yet – IATA code) and to introduce the resulting new AFTN address structure.
- The institutional changes could take too much time with unknown result and might not meet the time constraints for the replacement of X.25, low speed lines and other equipment.

4.3 Proposed solution

4.3.1 First conclusions

4.3.1.1 The option to use of a unique first letter in the AFTN address for SITA Type X users (allocation of a Routing area) seems to be too complicated to meet the time constraints mentioned above.

4.3.1.2 Especially the administrative problems in ICAO level are not calculable.

4.3.1.3 Therefore the Group discussed another approach based in principle on option 1 in order to limit the drawbacks to all COM Centres worldwide.

4.3.2 Principle of the proposed solution

4.3.2.1 The table based approach (use of User address look-up table) is the preferred option but with a number of slight modifications to the plan initially presented by SITA.

4.3.2.2 **First**, the current topology of the interconnections between AFTN and SITA should remain in the first phase of the migration to AMHS. That means that the migration from the AFTN/SITA Type B Gateways to the AMHS/SITA Type X Gateways should be done step by step, starting with the most needed replacement of an existing AFTN/SITA Type B Gateway connection by an AMHS/SITA Type X one.

4.3.2.3 The advantage of such an approach is that in this stage only one COM Centre is involved and an urgent need could be satisfied. Only minor drawbacks to others could occur.

4.3.2.4 Due to the fact that most of the EUR COM Centres today serving a SITA Type B Gateway have proven AMHS capabilities, such a replacement could be continued.

4.3.2.5 One precondition is that the AFTN/SITA Type B Gateways and the AMHS/SITA Type X Gateways can operate in parallel for a longer time during which the possible target topology could be defined.

4.3.2.6 **Second**, the former planned two AMHS/SITA Type X connections have to be expanded to a larger number so that all ICAO Regions are served sufficiently and independently. It has to be clarified how many Regional interconnections AMHS/SITA Type X will be required.

4.3.2.7 Multiple inter-Regional connections would allow limiting the exceptional routing to Regional level. In consequence, not all SITA Type X user AFTN addresses have to be configured everywhere (not in all AFTN COM Centres worldwide).

4.3.2.8 The target topology should be discussed on Regional level. So the potential AFTN routing issues remain under Regional responsibility. On Regional level it could be decided how many connections would be sufficient.

4.3.2.9 In parallel to the stepwise replacement of the AFTN/SITA Type B Gateways, the target architecture could be discussed between the Regions not affecting the deployment of the AMHS/SITA Type X rollout. This global coordination should be seen as an optimisation process.

4.3.2.10 **Third**, SITA had chosen to use a CAAS addressing scheme. In this sense the request for allocation of a PRMD named SITA under the ADMD of ICAO was made at ICAO HQ level. However, if the table based approach is used for identifying of SITA Type X users in AFTN, the selection of the addressing scheme CAAS or XF has no relevance.

4.3.2.11 It doesn't really matter in the User address look-up table, if the corresponding O/R address for a SITA Type X user is in accordance with XF or CAAS. Within the AMHS the routing will be performed by the PRMD=SITA only. No other attribute has routing relevance.

4.3.2.12 In the User address look-up table more attributes have to be maintained correctly if the CAAS addressing scheme is used in the future. The XF addressing scheme needs the minimum required attributes only:

XF: /C=XX/A=ICAO/P=SITA/O=AFTN/OU1=<AFTNADDR>

Where <AFTNADDR> – AFTN address representing the SITA Type X user

4.3.2.13 **Therefore**, it is recommended that the XF schema shall be used for the O/R addresses of the SITA Type X users. The User address look-up table entries can be created easier compared to CAAS.

4.3.2.14 Once address mapping information became available through Directory services such as the European Directory Service (EDS), a Directory-based solution would ease distribution of address mapping information.

5 Communication requirements for the AMHS/SITA Type X Gateway

5.1 Technical requirements

5.1.1 Requirement 1: The AMHS/SITA Type X Gateway shall be interconnected to AMHS COM Centres by use of the X.400 Message Transfer Protocol (P1) over IPv4 or IPv6.

5.1.2 Requirement 2: Based on the requirements for long-term logging at the AFTN/AMHS Gateway, the AMHS/SITA Type X Gateway shall perform traffic logging as per ICAO Doc 9880, Part II, section 4.3.1.

5.1.3 Requirement 3: Before the AMHS/SITA Type X Gateway will be interconnected to an AMHS COM Centre in the EUR Region, the gateway system shall pass an AMHS Conformance Tests based on the EUR AMHS Manual, Appendix D provisions.

5.1.4 Requirement 4: Any further operational testing shall be based on the AMHS Interoperability and AMHS Pre-operational Tests laid down in the EUR AMHS Manual, Appendices E and F.

5.2 Operational requirements

5.2.1 Requirement 5: At minimum two AMHS/SITA Type X Gateway operators (main and backup) shall participate in AMC (ATS Messaging Managements Centre) Operations. They will be registered in AMC as External COM Operators.

5.2.2 Requirement 6: SITA has to ensure that qualified Operators are nominated as External COM Operator participating and acting actively in order to ensure an up-to-date data base in the AMC and resulting in the AMHS/SITA Type X Gateways.

5.2.3 Requirement 7: The address conversion in the AMHS/SITA Type X Gateway shall be based on the actual AMHS Address Managements Tables provided by the AMC on regular basis (AIRAC cycle). Later on, the Address Management data should be downloaded from EDS (European Directory Service) when operational.

5.3 Specific operational requirements

5.3.1 Requirement 8: The AMHS/SITA Type X Gateways shall ensure that only those SITA Type X users communicate with the AMHS which are registered, trained and published as indirect AMHS users.

5.3.2 Requirement 9: The AMHS/SITA Type X Gateways shall ensure that each generated AMHS messages contains as originator address only those SITA Type X users addresses listed in the User address look-up table. All messages with SITA Type X users addresses not listed in the User address look-up table shall be suppressed and never reach the AMHS.

5.3.3 Requirement 10: The responsible AMHS/SITA Type X Gateway operator shall maintain the User address look-up table in the AMC with all SITA Type X users allowed to communicate with AMHS containing their SITA Type X address as AFTN address and the corresponding O/R address with PRMD=SITA.

5.3.4 Requirement 11: The responsible AMHS/SITA Type X Gateway operator shall maintain the User Capabilities of the SITA Type X users communicating with AMHS via the AMHS/SITA Type X Gateways in the AMC (AMHS User Capabilities Table).

5.3.5 Requirement 12: The responsible AMHS/SITA Type X Gateway operator shall ensure that the tables in the AMHS/SITA Type X Gateways are consistent with the tables maintained in AMC at any time of operations.

5.3.6 Requirement 13: For this purpose, the AMHS/SITA Type X Gateways shall support the “versioning” of the operational tables as provided by AMC and later on by EDS.

6 Requirements concerning Underlying IP Infrastructure

6.1 Requirement 14: The IPv4 connection between an AMHS/SITA Type X Gateway and an AMHS COM Centre shall be redundant. That means that such an IP connection will not be interrupted by single hardware faults. Any SPOFs (single point of failure) have to be avoided.

6.2 Requirement 15: The final acceptance tests of the IP infrastructure between an AMHS/SITA Type X Gateway and an AMHS COM Centre have to be performed in line with the principles laid down in provisional EUR Doc 027 – IP Infrastructure Test Guidelines for EUR AMHS.

6.3 Requirement 16: Especially the recovery time after single outages of one component of a redundant connection (router, firewall or others) shall be measured and should be in a range of 10 seconds.

6.4 Requirement 17: The dimensioning of the connection (bandwidth) has to be done based on the real traffic figures. Potential growing of the traffic as well as additional bandwidth for recover scenarios has to be taken into account.

7 Migration scenario

7.1 Precondition for the start of the migration is completion of the AMHS/SITA Type X Gateway specification and the successful implementation documented by the Acceptance Tests and the AMHS Conformance Tests.

7.2 The migration should be started by defined pilot connections in close cooperation with the foreseen first COM Centre(s) in the EUR Region.

7.3 It is recommended to agree on a schedule of the required steps as there are:

- Completion and test of the IP infrastructure;
- Planning of the AMHS Interoperability Tests;
- Coordination of the Operational procedures between the AMHS COM Centres and the SITA Type X Gateways;
- Planning of the Pre-operational Tests;
- Date of operation.

7.4 In parallel the SITA Type X Gateway operators shall setup the required tables in the AMC as there are:

- User address look-up table, and
- AMHS user Capabilities Table.

7.5 From the very beginning the complete tables shall be maintained by the SITA Type X Gateway operators (not tailored or shortened tables) in order to ensure the setup of the required AFTN/AMHS Gateway tables and the X.400 and AFTN routing tables in the COM Centres worldwide.

7.6 If the pilot implementation is finished successfully the next connections should be replaced.

7.7 In line with the discussions with the other ICAO Regions and their results the replacement of AFTN/SITA Type B Gateway connections by AMHS/SITA Type X Gateway connections should be performed.

7.8 The AMC Operator will assist and monitor the progress in cooperation with the assigned SITA Type X Gateway Operator.

7.9 The AFSG Operations Group will monitor the migration and offer support.

8 Road map

8.1 The replacement of the current AFTN/SITA Type B connections by AMHS/SITA Type X ones has become very urgent in the last months due to the announced decommissioning of low speed links by the telecom providers in several European States by end of 2014.

8.2 A further driving factor is the need to be prepared for XML based information exchange such as digital NOTAMs (AIXM), Flight plans (FIXM) and meteorological messages (WXXM).

8.3 The following road map coordinated with SITA should be envisaged in order to meet the above mentioned communication requirements:

| | |
|--|------------|
| Adoption of the AMHS/SITA Type X concept by AFSG/17 | 2013 April |
| Completion of AMHS/SITA Type X Gateway Specification | 2013 |
| Definition of the pilot replacements of AFTN/SITA Type B by AMHS/SITA Type X connections in EUR | 2013 |
| Definition of the target topology | 2013 |
| Discussion of the AMHS/SITA Type X concept with other ICAO Regions | 2013 |
| Factory Acceptance testing including AMHS Conformance Tests | 2013 |
| First AMHS Interoperability Test in the EUR Region | 2014 |
| Completion of the Operational procedures (Cooperation of the AMHS COM Centres and SITA Type X Gateways) | 2014 |
| Initial data entry in AMC (User address look-up table) | 2014 |
| Definition of the replacements of AFTN/SITA Type B by AMHS/SITA Type X connections in other ICAO Regions | 2014 |

| | |
|---|-----------|
| First Pre-operational Tests in the EUR Region | 2014 |
| Date of operation in the EUR Region | 2014/2015 |
| Continued replacement of AFTN/SITA Type B by AMHS/SITA Type X connections in EUR and other ICAO Regions | 2015 |

Attachment A

A.1 Conversion Table AFTN to SITA Type B addresses (IX Table) (Dec 2012)

| | AFTN Address | SITA Customer | Remark |
|----|--------------|---------------|--------|
| 1 | AYPYANGM | POMOPPX | |
| 2 | AYPYANGO | POMOOPX | |
| 3 | AYPYANGW | POMOWPX | |
| 4 | CSINXMXS | SINXTXS | |
| 5 | CYYCCOIX | YYCCCXH | |
| 6 | DAAGDAHO | ALGOOAH | |
| 7 | DIAPYKYN | ABJOWXH | |
| 8 | DIAVSITX | SINXTXS | |
| 9 | DIAVYKYX | ABJOWXH | |
| 10 | DTTAYAYX | TUNXYYA | |
| 11 | DTTAYFYX | TUNBPFY | |
| 12 | DTTAZPZX | TUNBPFY | |
| 13 | DTTJYDYX | DJEXYYF | |
| 14 | DTTJYFYX | DJEXYYF | |
| 15 | DTTJYOYX | DJEXYYF | |
| 16 | DTTJZTZX | DJEXYYF | |
| 17 | DTTOONYX | TUNXYYF | |
| 18 | DTTZQZX | TUNXYYF | |
| 19 | DTTVSITX | SINXTXS | |
| 20 | DTTVYAYX | TUNXYYA | |
| 21 | DTTXSYAO | SFADTFS | |
| 22 | EBBDCEUW | BRUEC7X | |
| 23 | EBBDYFCO | BRUEA7X | |
| 24 | EBBDYFYX | BRUXTYF | |
| 25 | EBBDZMFP | BRUEP7X | |
| 26 | EBBDZMTA | BRUEA7X | |
| 27 | EBBISITL | QIFWNXS | |
| 28 | EBBRDHIA | BRUAAER | |
| 29 | EBBRSAWA | BRUXZSN | |
| 30 | EBBRSAWB | BRUICSN | |
| 31 | EBBRSAWC | BRUICSN | |
| 32 | EBBRSAWD | BRUXZSN | |
| 33 | EBBRSAWE | BRUXZSN | |
| 34 | EBBRSAWF | BRUXZSN | |
| 35 | EBBRSAWG | BRUXZSN | |
| 36 | EBBRSAWH | BRUXZSN | |
| 37 | EBBRSAWI | BRUOWSN | |
| 38 | EBBRSABJ | BRUXZSN | |
| 39 | EBBRSABK | BRUXZSN | |
| 40 | EBBRSABL | BRUXZSN | |
| 41 | EBBRSABM | BRUXZSN | |

| | AFTN Address | SITA Customer | Remark |
|----|--------------|---------------|--------|
| 42 | EBBRSAVN | BRUXZSN | |
| 43 | EBBRSAVO | BRUXZSN | |
| 44 | EBBRSAVP | BRUOWSN | |
| 45 | EBBRSAVQ | BRUXZSN | |
| 46 | EBBRSAVR | BRUXZSN | |
| 47 | EBBRSAVS | BRUXZSN | |
| 48 | EBBRSAVT | BRUXZSN | |
| 49 | EBBRSAVU | BRUOWSN | |
| 50 | EBBRSAVV | BRUXZSN | |
| 51 | EBBRSAVW | BRUXZSN | |
| 52 | EBBRSAVX | BRUOWSN | |
| 53 | EBBRSAVY | BRUXZSN | |
| 54 | EBBRSAVZ | BRUXZSN | |
| 55 | EDDFCFG0 | FRAOODE | |
| 56 | EDDFCFGX | FRAXYDE | |
| 57 | EDDFDLHB | FRANOLH | |
| 58 | EDDFDLHC | FRAYKLH | |
| 59 | EDDFDLHD | FRA2DLH | |
| 60 | EDDFDLHF | FRAFFLH | |
| 61 | EDDFDLHH | FRA2HLH | |
| 62 | EDDFDLHL | FRAQLLH | |
| 63 | EDDFDLHN | FRANNLH | |
| 64 | EDDFDLHO | FRA2OLH | |
| 65 | EDDFDLHQ | FRAQKLH | |
| 66 | EDDFDLHT | FRATTLH | |
| 67 | EDDFDLHW | FRA2WLH | |
| 68 | EDDFDLHX | FRA2XLH | |
| 69 | EDDFDLHZ | FRAXCLH | |
| 70 | EDDFKALO | FRAOOKE | |
| 71 | EDDFSITX | SINXTXS | |
| 72 | EDDFSITY | FRAXMKS | |
| 73 | EDDGEAFX | DTMATXH | |
| 74 | EDDHAYA | HAMOOHK | |
| 75 | EDDKCLHX | CGNOXCL | |
| 76 | EDDMBOBX | MUCAOXH | |
| 77 | EDDMKSTX | MUCAOXH | |
| 78 | EDDNIFAX | NUEFAXH | |
| 79 | EDDRRUSA | SCNGWXH | |
| 80 | EDDSDCSA | STRDAXH | |
| 81 | EDSDCSC | STRDCXH | |
| 82 | EDSDCSO | STRXYF | |

| | AFTN Address | SITA Customer | Remark |
|-----|---------------------|----------------------|---------------|
| 83 | EDDSDCSX | STRXYYF | |
| 84 | EDDTBERA | TXLFSAB | |
| 85 | EDDTBERX | TXLFPAB | |
| 86 | EDDTGBQW | TXLOWST | |
| 87 | EDDTGMIW | TXLOWST | |
| 88 | EDDTGMQW | TXLOWST | |
| 89 | EDHIAIBX | XFWOO7X | |
| 90 | EGCCMONO | MANOOZB | |
| 91 | EGGWBALO | LTNOOBY | |
| 92 | EGGWMONO | LTNOOZB | |
| 93 | EGKKFCAY | MANS PDP | |
| 94 | EGKKJPNX | LGWJD7X | |
| 95 | EGKKPGFO | LGWPG7X | |
| 96 | EGKKPGFX | LGWPG7X | |
| 97 | EGKKVIRG | LGWORVS | |
| 98 | EGKKVIRS | LGWKSVS | |
| 99 | EGKKVIRW | LGWODVS | |
| 100 | EGKKYEYF | LGWCF7X | |
| 101 | EGLISITM | QIFMMXS | |
| 102 | EGLLAFFRO | LHROOAF | |
| 103 | EGLLBAWB | LHRBBBA | |
| 104 | EGLLBAWD | LHRDBBA | |
| 105 | EGLLBAWL | LHRLLBAA | |
| 106 | EGLLBAWO | LHROOBA | |
| 107 | EGLLBBCX | LHRXYBG | |
| 108 | EGLLIJOB | LHRIJCR | |
| 109 | EGLLIRAX | LHRXYIR | |
| 110 | EGLLKACX | LHRXYKU | |
| 111 | EGLLOXBA | LHROXBA | |
| 112 | EGLLSITX | SINXTXS | |
| 113 | EGLLWCBA | LHRWCBA | |
| 114 | EGNMEXSO | LBA01XS | |
| 115 | EGNXBMAO | EMAOOBD | |
| 116 | EGNXBMAX | EMAXYBD | |
| 117 | EGSSAWCX | STNTACR | |
| 118 | EGSSUVAO | STNOOUV | |
| 119 | EHAASITX | SINXTXS | |
| 120 | EHAMCKSX | AMSFSK4 | |
| 121 | EHAMHLRX | AMSHAXH | |
| 122 | EHAMJALO | AMSOOJL | |
| 123 | EHAMJXAS | DXBJX7X | |
| 124 | EHAMKLCR | QHZZVKL | |
| 125 | EHAMKLMA | SPLOBKL | |
| 126 | EHAMKLMB | SPLKFKL | |
| 127 | EHAMKLMC | QHZZGKL | |
| 128 | EHAMKLMD | OCCFDKL | |
| 129 | EHAMKLMF | SPLKFKL | |
| 130 | EHAMKLMH | SPLWHKL | |

| | AFTN Address | SITA Customer | Remark |
|-----|---------------------|----------------------|---------------|
| 131 | EHAMKLM1 | AMSI IKL | |
| 132 | EHAMKLMJ | SPLOOKKL | |
| 133 | EHAMKLMK | SPLOVKL | |
| 134 | EHAMKLMO | AMSI IKL | |
| 135 | EHAMKLMR | QHZZZKL | |
| 136 | EHAMKLMU | SPLXUKL | |
| 137 | EHAMKLMW | OCCOWKL | |
| 138 | EHAMMPHO | SPLOWMP | |
| 139 | EHAMMPHP | SPLONMP | |
| 140 | EHAMMPHX | SPLLPMP | |
| 141 | EHAMPIAW | SPLOWPK | |
| 142 | EHAMSITE | SPLNGXS | |
| 143 | EHAMTFLC | SPLCCOR | |
| 144 | EHAMTFLO | SPLOPOR | |
| 145 | EHAMTRAC | SPLCCHV | |
| 146 | EHAMTRAK | SPLOCHV | |
| 147 | EHAMYAYL | HAGRLXH | |
| 148 | EHAMYIAG | HDQAGXH | |
| 149 | EHAMYIJN | SPLJN8X | |
| 150 | EHAMYIOA | AMSOOXH | |
| 151 | EHAMYIWF | AMSOCCR | |
| 152 | EHAMYIWU | SPLWUXH | |
| 153 | EHBKXHAO | MSTAPXH | |
| 154 | EHEHYXYH | EINLCXH | |
| 155 | EHGVYAYW | HAGRLXH | |
| 156 | EHGVYAYX | HAGRLXH | |
| 157 | EHRDSHEX | RTMSHUV | |
| 158 | EHXXYIAO | ULNA1XH | |
| 159 | EHXXYIAV | OSTAVCR | |
| 160 | EHXXYIMA | DXBMA7X | |
| 161 | EKCHAFRK | CPHKKAF | |
| 162 | EKCHAFRX | CPHXYAF | |
| 163 | EKCHSASX | CPHYSK | |
| 164 | EKCHSITX | SINXTXS | |
| 165 | EKCHSRRO | CPHONS6 | |
| 166 | EKCHSRRX | CPHONS6 | |
| 167 | EKCHVKGI | CPHIIDK | |
| 168 | EKCHVKGO | CPHOPDK | |
| 169 | EKCHVKGW | CPHOWDK | |
| 170 | ELLXCLXO | LUXOOCV | |
| 171 | ELLXYDPP | LUXXYYF | |
| 172 | ELLXYMYP | LUXXYYF | |
| 173 | ELLXZPZX | LUXXYYF | |
| 174 | ELLXZTZX | LUXXYYF | |
| 175 | EPWALOTO | WA WOOL O | |
| 176 | ETNLYDYX | RLGKOXH | |
| 177 | EVRRBJCX | LONBJXH | |
| 178 | EVRRZDZX | OTP OWRO | |

| | AFTN Address | SITA Customer | Remark |
|-----|---------------------|----------------------|---------------|
| 179 | EVRRZQZX | OTPOWRO | |
| 180 | FACTBAWK | CPTKZBA | |
| 181 | FACTBAWX | CPTXYBA | |
| 182 | FADNYFYR | JNBRMYF | |
| 183 | FAHQSAAX | JNBXYSA | |
| 184 | FAITYFYR | JNBRMYF | |
| 185 | FAJBSITN | JNBXEXS | |
| 186 | FAJBSITR | JNBXEXS | |
| 187 | FAJFSAAO | JNBOOSA | |
| 188 | FAJSAFRK | JNBKLAF | |
| 189 | FAJSFRL | JNBLLAF | |
| 190 | FAJSAMLK | JNBKDKQ | |
| 191 | FAJSBAWJ | JNBJJBA | |
| 192 | FAJSBAWK | JNBKLBA | |
| 193 | FAJSBAWX | JNBXYBA | |
| 194 | FAJSCPAK | JNBKOXH | |
| 195 | FAJSDLHF | JNBFFLH | |
| 196 | FAJSDLHJ | JNBJJLH | |
| 197 | FAJSDLHK | JNBYKLH | |
| 198 | FAJSDTAK | JNBKKDT | |
| 199 | FAJSEXYO | JNBERSA | |
| 200 | FAJSIBEK | JNBKPIB | |
| 201 | FAJSKLMK | JNBKKKL | |
| 202 | FAJSKML | JNBLLKL | |
| 203 | FAJSKLMO | JNBOOKL | |
| 204 | FAJSKPVS | JNBKPVS | |
| 205 | FAJSKQAK | JNBKKKQ | |
| 206 | FAJSMASK | JNBKKMH | |
| 207 | FAJSODVS | JNBODVS | |
| 208 | FAJSQFAK | JNBKDQF | |
| 209 | FAJSQFAO | JNBOOQF | |
| 210 | FAJSQTRK | JNBKOXH | |
| 211 | FAJSSAAM | JNBCMSA | |
| 212 | FAJSSAAN | JNBONSA | |
| 213 | FAJSSAAO | JNBCKSA | |
| 214 | FAJSSAAP | JNBPPSA | |
| 215 | FAJSSAAR | JNBCASA | |
| 216 | FAJSSAAW | JNBOWSA | |
| 217 | FAJSSAAX | JNBXYSA | |
| 218 | FAJSSAAZ | JNBWMSA | |
| 219 | FAJSSWPO | JNBOSXH | |
| 220 | FAJSUAEK | JNBKKEK | |
| 221 | FAJSVIRK | JNBKKVS | |
| 222 | FAJSXBYF | JNBXBYF | |
| 223 | FAJSXCYF | JNBXYCF | |
| 224 | FAJSXTYF | JNBXYTF | |
| 225 | FAJSYFYF | JNBFFYF | |
| 226 | FAJSYFYL | JNBLLYF | |

| | AFTN Address | SITA Customer | Remark |
|-----|---------------------|----------------------|---------------|
| 227 | FAJSYFYM | JNBMMYF | |
| 228 | FAJSYTYX | JNBXTYF | |
| 229 | FAJSZTXX | UNKXMXS | |
| 230 | FAKSSAAO | JNBOOSA | |
| 231 | FAPRYMYX | PRYXMYF | |
| 232 | FARSSAAO | JNBOOSA | |
| 233 | FBBRZXIM | JNBPA7X | |
| 234 | FBCVYKYX | JNBWDXH | |
| 235 | FBSKBOTK | GBEOSBP | |
| 236 | FCBBYKYX | BZVOWXH | |
| 237 | FCBVYKYC | BZVOWXH | |
| 238 | FCBVYKYX | BZVOWXH | |
| 239 | FCFVYKYX | BZVOWXH | |
| 240 | FDDVYKYX | JNBWDXH | |
| 241 | FDLFDLHP | JNBKPLH | |
| 242 | FIMPSAAO | MRUOOSA | |
| 243 | FKKDAFRK | DLAKKAF | |
| 244 | FKKDYKYX | DLAOWXH | |
| 245 | FMMMDMDGA | TNRJDMD | |
| 246 | FMMMDMDGB | TNRBNMD | |
| 247 | FMMMDMDGC | TNRTOMD | |
| 248 | FMMMDMDGG | TNRDDMD | |
| 249 | FMMMDMDGJ | TNRJDMD | |
| 250 | FMMMDMDGP | TNRGDM | |
| 251 | FMMMDMDGR | TNRTOMD | |
| 252 | FMMIMDG | TNRIDMD | |
| 253 | FMMIMDGH | TNRIHMD | |
| 254 | FMMIMDG | TNROUMD | |
| 255 | FMMIMDG | TNRMFMD | |
| 256 | FMMIMDG | TNRODM | |
| 257 | FMMIMDG | TNRTDM | |
| 258 | FMMIMDG | TNROUMD | |
| 259 | FMMIMDG | TNRYCMD | |
| 260 | FNLUAFRK | LADKKAF | |
| 261 | FNLUAFRX | LADXYAF | |
| 262 | FNLUDTAX | LADXYDT | |
| 263 | FQMALAMW | MPMOWTM | |
| 264 | FSIASEYX | SEZXYHM | |
| 265 | FVHAAZWO | HREOOUM | |
| 266 | FVHAAZWT | HRETTUM | |
| 267 | FVHABAWX | HREXYBA | |
| 268 | FYWHNMBO | WDHOOSW | |
| 269 | FZAASABX | FIHXYSN | |
| 270 | GABSAFRK | BKOKKAF | |
| 271 | GCLPIBED | LPAOXIB | |
| 272 | GDDFGECO | FRAQOLH | |
| 273 | GMMCSITX | SINXTXS | |
| 274 | GMMERAMK | RBAKKAT | |

| | AFTN Address | SITA Customer | Remark |
|-----|---------------------|----------------------|---------------|
| 275 | GMMNAFRO | CMNOOAF | |
| 276 | GMMNRAMH | CMNHAT | |
| 277 | GMMNRAMO | CMNOOAT | |
| 278 | GMMNRAMW | CMNOWAT | |
| 279 | GMMNSVAO | CMNOOSV | |
| 280 | GOOEAFRX | DKRXYAF | |
| 281 | GOOHAFRX | DKRXYAF | |
| 282 | GOOSAFRX | DKRXYAF | |
| 283 | GOOVIATX | DKREDXB | |
| 284 | GOOVSITX | SINXTXS | |
| 285 | GOOYAFRB | DKRHKA | |
| 286 | GOOYAFRC | DKRPOAF | |
| 287 | GOOYAFRK | DKRKKA | |
| 288 | GOOYAFRM | DKRXYAF | |
| 289 | GOOYAFRO | DKROOAF | |
| 290 | GOOYAFRX | DKRXYAF | |
| 291 | GOOYAFRY | DKRXYAF | |
| 292 | GOOYAZAX | DKRXYAZ | |
| 293 | GOOYDLHX | DKR2XLH | |
| 294 | GOOYSABX | DKRXYSN | |
| 295 | GOOYSNEX | DKROPDN | |
| 296 | HAABDLHX | ADD2XLH | |
| 297 | HAABETHO | ADDODET | |
| 298 | HAABETKK | ADDXYFY | |
| 299 | HAABIYEX | ADDXYIY | |
| 300 | HAABKKS | ADDXYFY | |
| 301 | HAABKQAX | ADDXYKQ | |
| 302 | HAABMSRX | ADDXYMS | |
| 303 | HAABSITX | ADDXTXS | |
| 304 | HAABSVAX | ADDXYSV | |
| 305 | HAACOSITX | ADDXTXS | |
| 306 | HAZBDLHX | ADD2XLH | |
| 307 | HCMMYFYX | NBOTCYA | |
| 308 | HCMMYMYX | NBOTCYA | |
| 309 | HCMMYNYX | NBOTCYA | |
| 310 | HCMMZIZX | NBOTCYA | |
| 311 | HCMMZQZX | NBOTCYA | |
| 312 | HDAMZPZX | JIBAAXH | |
| 313 | HECAAFRK | CAIKKA | |
| 314 | HECAMHSX | CAIAOCR | |
| 315 | HECAMSRK | CAIKKMS | |
| 316 | HECAMSRO | CAIOOMS | |
| 317 | HKJKAZAX | NBOXYAZ | |
| 318 | HKJKKQAO | NBOOOKQ | |
| 319 | HKJKKQAW | NBOOWKQ | |
| 320 | HKJKKQAX | NBOXYKQ | |
| 321 | HKJKYMYX | UNKXMXS | |
| 322 | HKJKYNYX | UNKXMXS | |

| | AFTN Address | SITA Customer | Remark |
|-----|---------------------|----------------------|---------------|
| 323 | HKJKZPZX | UNKXMXS | |
| 324 | HKJKZQZX | UNKXMXS | |
| 325 | HKJKZTZX | UNKXMXS | |
| 326 | HKNAAZAX | NBOXYAZ | |
| 327 | HKNAKQAW | NBOOKQ | |
| 328 | HKNASITA | SINAAXS | |
| 329 | HKNAYFYF | NBOFFYF | |
| 330 | HKNAYFYS | NBOSSYF | |
| 331 | HLLTAB8U | TIPAB8U | |
| 332 | KATLDALW | ATLOWDL | |
| 333 | KATLYTAA | MKCOOYF | |
| 334 | KBDLTCFD | HDQDDRP | |
| 335 | KCMHSOOD | CMHDD9S | |
| 336 | KDENXLDU | TSTJD7X | |
| 337 | KDHQQHYK | ISTTO8Q | |
| 338 | KHDQJBUD | HDQOOB6 | |
| 339 | KHDQJBUO | HDQOOB6 | |
| 340 | KHLSSITC | HLSCCXS | |
| 341 | KHOUCCXH | HOUCCXH | |
| 342 | KHOUPTXX | TEXOPXH | |
| 343 | KHOUUVAR | HOURMUV | |
| 344 | KHOUUVAX | HOUXYUV | |
| 345 | KINDRPAY | HDQDDRP | |
| 346 | KINDUSAY | HDQDDRP | |
| 347 | KJFKAICO | JFKOOAI | |
| 348 | KJFKAZAW | JFKOOAZ | |
| 349 | KJFKGDIV | JFKGAXH | |
| 350 | KJFKIBED | JFKOXIB | |
| 351 | KJFKJBUD | HDQOOB6 | |
| 352 | KJFKPIAW | JFKOWPK | |
| 353 | KKJKAICW | NYCOWAI | |
| 354 | KLGAINJX | ATHDDCR | |
| 355 | KLGBDACP | LGBBOCR | |
| 356 | KLITATND | LITDD8C | |
| 357 | KMGESITX | MGEZZXS | |
| 358 | KMGESITY | MGEYYXS | |
| 359 | KMGESITZ | MGEZZXS | |
| 360 | KMIAGTIW | MIADG5Y | |
| 361 | KMIAIBED | MIAOXIB | |
| 362 | KMKCSITY | MKCYFXS | |
| 363 | KNYCAIEX | YULOP3H | |
| 364 | KORDIBED | ORDOXIB | |
| 365 | KORDXORD | ORDSSCR | |
| 366 | KORQSOOD | CMHDD9S | |
| 367 | KTGASITB | TGABBXS | |
| 368 | KTGASITY | NYCXMXS | |
| 369 | KTGASTIA | TGAAAXS | |
| 370 | LEBLIBED | BCNOXIB | |

| | AFTN Address | SITA Customer | Remark |
|-----|---------------------|----------------------|---------------|
| 371 | LELLKLMK | MADKKKL | |
| 372 | LEMDAEAO | MADOOUX | |
| 373 | LEMDAFRK | MADKKAF | |
| 374 | LEMDAVAO | MADOOAV | |
| 375 | LEMDAZAW | MADOWAZ | |
| 376 | LEMDBAWK | MADKKBA | |
| 377 | LEMDCSAK | MADKKOK | |
| 378 | LEMDCUBW | MADOWCU | |
| 379 | LEMDDAHK | MADKKAH | |
| 380 | LEMDDAHX | MADXYAH | |
| 381 | LEMDDLHD | MAD2DLH | |
| 382 | LEMDEOXH | MADEOXH | |
| 383 | LEMDIBED | MADOXIB | |
| 384 | LEMDIBEK | MADKKIB | |
| 385 | LEMDIBEO | MADOOIB | |
| 386 | LEMDIBET | MADCRIB | |
| 387 | LEMDIBEW | MADWOIB | |
| 388 | LEMDIBEX | MADXTIB | |
| 389 | LEMDRAMK | MADKKAT | |
| 390 | LEMDRAMO | MADOOAT | |
| 391 | LEMDSABK | MADKKSН | |
| 392 | LEMDYFYA | MADAPYF | |
| 393 | LEMLBAWO | MADOABA | |
| 394 | LEPAAEAO | PMIOOUX | |
| 395 | LEPATQYX | PMIXYYF | |
| 396 | LEPAYDPP | PMIXYYF | |
| 397 | LEPAYFYA | PMIAAYF | |
| 398 | LEPAYFYX | PMIXYYF | |
| 399 | LEPAYQYX | PMIXYYF | |
| 400 | LFBBYWYX | CQFYYCR | |
| 401 | LFBCYXYH | CQFYYCR | |
| 402 | LFBCYXYS | CQFYYCR | |
| 403 | LFBCYXXX | CQFYYCR | |
| 404 | LFBCYXYZ | CQFYYCR | |
| 405 | LFBCZPZX | CQFYYCR | |
| 406 | LFBCZTZX | CQFYYCR | |
| 407 | LFBDAFRK | BODKKAF | |
| 408 | LFBDBAWL | BODLLBA | |
| 409 | LFBDBAWO | BODOOBA | |
| 410 | LFBDCDMA | ZAOYYCR | |
| 411 | LFBDDABO | BODDACR | |
| 412 | LFBDXHAF | BODFOCR | |
| 413 | LFBDYXYE | CQFYYCR | |
| 414 | LFBDYXYH | CQFYYCR | |
| 415 | LFBDYXYX | CQFYYCR | |
| 416 | LFBFYXYH | CQFYYCR | |
| 417 | LFBFYXYS | CQFYYCR | |
| 418 | LFBFYXYX | CQFYYCR | |

| | AFTN Address | SITA Customer | Remark |
|-----|---------------------|----------------------|---------------|
| 419 | LFBFYXYY | CQFYYCR | |
| 420 | LFBFZPZX | CQFYYCR | |
| 421 | LFBFZTZX | CQFYYCR | |
| 422 | LFBGYXYH | CQFYYCR | |
| 423 | LFBGYXYS | CQFYYCR | |
| 424 | LFBGZPZX | CQFYYCR | |
| 425 | LFBGZTZX | CQFYYCR | |
| 426 | LFBMYXYE | CQFYYCR | |
| 427 | LFBMYXYF | CQFYYCR | |
| 428 | LFBMYXYH | CQFYYCR | |
| 429 | LFBMYXYI | CQFYYCR | |
| 430 | LFBMYXYS | CQFYYCR | |
| 431 | LFBMYXYY | CQFYYCR | |
| 432 | LFBMZPZX | CQFYYCR | |
| 433 | LFBMZTZX | CQFYYCR | |
| 434 | LFBOAFRA | TLSKAAF | |
| 435 | LFBOAFRK | TLSKCAF | |
| 436 | LFBOAIBK | TLSOW7X | |
| 437 | LFBOAIBN | TLSON7X | |
| 438 | LFBOAIBO | TLSBN7X | |
| 439 | LFBOAIBY | TLSBH7X | |
| 440 | LFBTBIEO | PUFAMCR | |
| 441 | LFBWYCYX | MTMYYCR | |
| 442 | LFBWYWYS | CQFYYCR | |
| 443 | LFBWYWYX | CQFYYCR | |
| 444 | LFCCCTMY | ZAOYYCR | |
| 445 | LFDNZPZX | CQFYYCR | |
| 446 | LFEEYWYX | CQFYYCR | |
| 447 | LFFAYAYC | CQFYYCR | |
| 448 | LFFAZXVN | CQFYYCR | |
| 449 | LFFFYLYM | CQFYYCR | |
| 450 | LFFFYWYX | CQFYYCR | |
| 451 | LFGAXHAX | HDQEOXH | |
| 452 | LFIOAIBO | XYTBH7X | |
| 453 | LFKBAFRK | BIAKKAF | |
| 454 | LFKBXHAA | BIAAAKH | |
| 455 | LFKCXHAK | CLYKKXH | |
| 456 | LFKJAFRK | AJAKKAF | |
| 457 | LFKJAFRO | AJAOOAF | |
| 458 | LFKJCCMK | AJAKKXX | |
| 459 | LFKJCCMX | AJAXYXK | |
| 460 | LFKJXHAK | AJAKKXH | |
| 461 | LFKSYYXE | CQFYYCR | |
| 462 | LFKSYYXYH | CQFYYCR | |
| 463 | LFKSZPZX | CQFYYCR | |
| 464 | LFKSZTZX | CQFYYCR | |
| 465 | LFLCAFRK | CFEKKAF | |
| 466 | LFLCXHAM | CFEMI8X | |

| | AFTN Address | SITA Customer | Remark |
|-----|---------------------|----------------------|---------------|
| 467 | LFLDCTMY | BOUYYCR | |
| 468 | LFLGYXYV | CQFYYCR | |
| 469 | LFLLAFRA | LYSKAAF | |
| 470 | LFLLAFRK | LYSKHAF | |
| 471 | LFLLAFRO | LYSOOAF | |
| 472 | LFLLBAWO | LYSOOBA | |
| 473 | LFLLBZHK | LYSKKDB | |
| 474 | LFLLPRBO | LYSKKYS | |
| 475 | LFLLXHAA | LYSAAXH | |
| 476 | LFLXCTMY | CHRYYCR | |
| 477 | LFLXXHAX | CHRXTXH | |
| 478 | LFLYCTMY | LYNYYCR | |
| 479 | LFMATJTX | MRSOPT7 | |
| 480 | LFMICTMA | QIEYYCR | |
| 481 | LFMICTMB | CEQYYCR | |
| 482 | LFMICTMC | MRSYYCR | |
| 483 | LFMICTMD | AVNYYCR | |
| 484 | LFMICTMY | QIEYYCR | |
| 485 | LFMIYXYE | CQFYYCR | |
| 486 | LFMIYXYH | CQFYYCR | |
| 487 | LFMIYXYR | CQFYYCR | |
| 488 | LFMIYXXX | CQFYYCR | |
| 489 | LFMIZPZX | CQFYYCR | |
| 490 | LFMIZTZX | CQFYYCR | |
| 491 | LFMJYWYX | CQFYYCR | |
| 492 | LFMLAFRH | MRSHHAF | |
| 493 | LFMLAFRO | MRSOOAF | |
| 494 | LFMLAZAK | MRSKKAZ | |
| 495 | LFMLCCMO | MRSOOXK | |
| 496 | LFMLCTMY | MRSYYCR | |
| 497 | LFMLDAHK | MRSKKAH | |
| 498 | LFMLELYK | MRSKKLY | |
| 499 | LFMLXHAP | MRSKPXH | |
| 500 | LFMMYWYX | CQFYYCR | |
| 501 | LFMNAFRA | NCEKAAC | |
| 502 | LFMNAFR | NCEPOAF | |
| 503 | LFMNAFRK | NCEKKAF | |
| 504 | LFMNAFR | NCEOCAF | |
| 505 | LFMNBAWK | NCEKKBA | |
| 506 | LFMNBAWO | NCEOABA | |
| 507 | LFMNCCMK | NCEKKXX | |
| 508 | LFMNLITO | NCEOOFU | |
| 509 | LFMOYXYH | CQFYYCR | |
| 510 | LFMOZPZX | CQFYYCR | |
| 511 | LFMOZTZX | CQFYYCR | |
| 512 | LFMTAFRK | MPLKKAF | |
| 513 | LFMTYAYO | MPLOOYA | |
| 514 | LFMVCTMY | AVNYYCR | |

| | AFTN Address | SITA Customer | Remark |
|-----|---------------------|----------------------|---------------|
| 515 | LFMYYYXYH | CQFYYCR | |
| 516 | LFMYYYXP | CQFYYCR | |
| 517 | LFMYYYYS | CQFYYCR | |
| 518 | LFMYYYXY | CQFYYCR | |
| 519 | LFMZPZX | CQFYYCR | |
| 520 | LFMZTZX | CQFYYCR | |
| 521 | LFOACTMA | BOUYYCR | |
| 522 | LFOACTMB | CHRYYCR | |
| 523 | LFOAYWYA | CQFYYCR | |
| 524 | LFOAYXYH | CQFYYCR | |
| 525 | LFOAYXYS | CQFYYCR | |
| 526 | LFOAZPZX | CQFYYCR | |
| 527 | LFOAZTZX | CQFYYCR | |
| 528 | LFOBAFRK | BVAKKAF | |
| 529 | LFOBXHAK | BVAKKXH | |
| 530 | LFOCYXYE | CQFYYCR | |
| 531 | LFOCYXYH | CQFYYCR | |
| 532 | LFOECTMH | LEHYYCR | |
| 533 | LFOEYXYE | CQFYYCR | |
| 534 | LFOEYXYF | CQFYYCR | |
| 535 | LFOEYXYG | CQFYYCR | |
| 536 | LFOEYXYH | CQFYYCR | |
| 537 | LFOEYXYS | CQFYYCR | |
| 538 | LFOEZPZX | CQFYYCR | |
| 539 | LFOEZTZX | CQFYYCR | |
| 540 | LFOJCIEL | CQFYYCR | |
| 541 | LFOJYXYE | CQFYYCR | |
| 542 | LFOJYXYF | CQFYYCR | |
| 543 | LFOJYXYG | CQFYYCR | |
| 544 | LFOJYXYH | CQFYYCR | |
| 545 | LFOJYXYX | CQFYYCR | |
| 546 | LFOJZPZX | CQFYYCR | |
| 547 | LFOJZTZX | CQFYYCR | |
| 548 | LFOKXHAO | XCRAPXH | |
| 549 | LFOPXHAX | UROAPXH | |
| 550 | LFOTYXYF | CQFYYCR | |
| 551 | LFOTYXYH | CQFYYCR | |
| 552 | LFOTYXYS | CQFYYCR | |
| 553 | LFOTZPZX | CQFYYCR | |
| 554 | LFOTZTZX | CQFYYCR | |
| 555 | LFPBBBLO | LBGKOCR | |
| 556 | LFPBBYGY | LBGBGCR | |
| 557 | LFPBCTMY | LBGYYCR | |
| 558 | LFPBDSOO | LBGDFXH | |
| 559 | LFPBIXRO | PARIXXH | |
| 560 | LFPBLEAK | LBGFECR | |
| 561 | LFPBLEAO | LBGFECR | |
| 562 | LFPBLXRO | LBGLXCR | |

| | AFTN Address | SITA Customer | Remark |
|-----|---------------------|----------------------|---------------|
| 563 | LFPBTSAX | LBGAPXH | |
| 564 | LFPCCIEL | CQFYYCR | |
| 565 | LFPCCMB | CSFYYCR | |
| 566 | LFPCCMY | CSFYYCR | |
| 567 | LFPCYXYE | CQFYYCR | |
| 568 | LFPCYXYF | CQFYYCR | |
| 569 | LFPCYXYH | CQFYYCR | |
| 570 | LFPCZPZX | CQFYYCR | |
| 571 | LFPCZTZX | CQFYYCR | |
| 572 | LFPGACAW | CDGOWAC | |
| 573 | LFPGACAX | CDGXYAC | |
| 574 | LFPGAFLK | CDGKKSU | |
| 575 | LFPGAFRI | CDGIIAF | |
| 576 | LFPGAFRJ | CDGJJAF | |
| 577 | LFPGAFRK | CDGKKAF | |
| 578 | LFPGAFRM | CDGXYAF | |
| 579 | LFPGAFRN | CDGNNAF | |
| 580 | LFPGAFRO | CDGOOAF | |
| 581 | LFPGAFRW | PAR03XS | |
| 582 | LFPGAFRX | CDGXYAF | |
| 583 | LFPGAICO | CDGOOAI | |
| 584 | LFPGARGO | CDGOOAR | |
| 585 | LFPGAZAK | CDGKKAZ | |
| 586 | LFPGBAWE | CDGEEBA | |
| 587 | LFPGBAWH | CDGHHBA | |
| 588 | LFPGBAWO | CDGOABA | |
| 589 | LFPGBAWX | CDGXYBA | |
| 590 | LFPGBLEO | CDGBLXH | |
| 591 | LFPGCOAO | CDGOOCO | |
| 592 | LFPGCPAO | CDGOWCX | |
| 593 | LFPGDAHO | CDGOOAH | |
| 594 | LFPGDLHE | CDGEELH | |
| 595 | LFPGFDXO | CDGOOFX | |
| 596 | LFPGFPOG | RSYPGCR | |
| 597 | LFPGFPOO | RSYOOCR | |
| 598 | LFPGJALO | CDGOOJL | |
| 599 | LFPGKALO | CDGOOKE | |
| 600 | LFPGKLMK | CDGKKKL | |
| 601 | LFPGMASK | CDGKKMH | |
| 602 | LFPGPIAK | CDGKKPK | |
| 603 | LFPGPIAW | CDGOWPK | |
| 604 | LFPGSASO | CDGOOSK | |
| 605 | LFPGSVAO | CDGOOSV | |
| 606 | LFPGTHAK | CDGKKTG | |
| 607 | LFPGUALD | CDGDDUA | |
| 608 | LFPGUALK | CDGKKUA | |
| 609 | LFPGXHAK | CDGKKXH | |
| 610 | LFPGXHAL | CDGLLXH | |

| | AFTN Address | SITA Customer | Remark |
|-----|---------------------|----------------------|---------------|
| 611 | LFPGXHAO | CDGOWXH | |
| 612 | LFPGXHAU | CDGSPXH | |
| 613 | LFPGXHCO | CDGCF7X | |
| 614 | LFPGXLFO | PAROOSE | |
| 615 | LFPGYXYX | CQFYYCR | |
| 616 | LFPGZPZX | CDGSJXH | |
| 617 | LFPJYWZS | CQFYYCR | |
| 618 | LFPJZXVS | CQFYYCR | |
| 619 | LFPJZXYD | CQFYYCR | |
| 620 | LFPNXHAD | TNFJDCR | |
| 621 | LFPOAFRA | ORYKAFF | |
| 622 | LFPOAFRB | ORYHKAF | |
| 623 | LFPOAFRC | ORYPOAF | |
| 624 | LFPOAFRE | ORYLIAF | |
| 625 | LFPOAFRI | ORYIIAF | |
| 626 | LFPOAFRL | ORYLLAF | |
| 627 | LFPOAFRM | ORYXYAF | |
| 628 | LFPOAFRO | ORYOOAF | |
| 629 | LFPOAFRS | ORYOAAF | |
| 630 | LFPOAFRT | ORYXYAF | |
| 631 | LFPOAFRV | ORYVVAF | |
| 632 | LFPOAFRX | ORYXYAF | |
| 633 | LFPOCAJX | ORYAFTX | |
| 634 | LFPOCRLO | ORYOSS | |
| 635 | LFPOCRLS | ORYSSSS | |
| 636 | LFPOCTMY | ORYYYCR | |
| 637 | LFPODAHO | ORYTTAH | |
| 638 | LFPOELYK | ORYKKLY | |
| 639 | LFPOIBEK | ORYKKIB | |
| 640 | LFPOIRAO | ORYOOIR | |
| 641 | LFPORAMK | ORYKKAT | |
| 642 | LFPOTAPO | ORYOOTP | |
| 643 | LFPOTARK | ORYKKTU | |
| 644 | LFPOTVFO | ORYOOTO | |
| 645 | LFPOXHAK | ORYKKXH | |
| 646 | LFPSAFRK | PAR04XS | |
| 647 | LFPSAFRO | PAROOAF | |
| 648 | LFPSAFRW | PAR01XS | |
| 649 | LFPSAFRX | PARXYAF | |
| 650 | LFPSAMCW | PAROWKM | |
| 651 | LFPSBAWO | PAROOBA | |
| 652 | LFPSGAMY | PARGACR | |
| 653 | LFPSKACX | PARXYKU | |
| 654 | LFPSMEAX | PARXYME | |
| 655 | LFPSSEUO | PAROOSE | |
| 656 | LFPS SITE | PARAEKS | |
| 657 | LFPS SITE | PARFFXS | |
| 658 | LFPS SITE | SINXTXS | |

| | AFTN Address | SITA Customer | Remark |
|-----|---------------------|----------------------|---------------|
| 659 | LFPSSYRX | PARXYRB | |
| 660 | LFPSTAPX | PARXYTP | |
| 661 | LFPSTHYT | PARTTTK | |
| 662 | LFPSUVAO | PAROOUV | |
| 663 | LFPTCTMY | POXYYCR | |
| 664 | LFPVCTMI | TNFYYCR | |
| 665 | LFPVCTMJ | POXYYCR | |
| 666 | LFPVCTMK | ORYYYCR | |
| 667 | LFPVCTMN | DIJYYCR | |
| 668 | LFPVCTMP | LMEYYCR | |
| 669 | LFPVCTMQ | LBGYYCR | |
| 670 | LFPVYXYC | CQFYYCR | |
| 671 | LFPVYXYE | CQFYYCR | |
| 672 | LFPVYXYH | CQFYYCR | |
| 673 | LFPVZPZX | CQFYYCR | |
| 674 | LFPVZTZX | CQFYYCR | |
| 675 | LFPYAFRK | PARKKAF | |
| 676 | LFPYYFCO | PAREP7X | |
| 677 | LFPYYLYX | CQFYYCR | |
| 678 | LFPYZMFP | PAREP7X | |
| 679 | LFQIYXYH | CQFYYCR | |
| 680 | LFQIZPZX | CQFYYCR | |
| 681 | LFQIZTZX | CQFYYCR | |
| 682 | LFQQAFRK | LILKKAF | |
| 683 | LFQQAFRV | LILVVAF | |
| 684 | LFQQXHAA | LILCHXH | |
| 685 | LFRKCLGO | CFRKKCR | |
| 686 | LFRMCTMY | LMEYYCR | |
| 687 | LFRRYWYX | CQFYYCR | |
| 688 | LFRSAFRK | NTEKKAF | |
| 689 | LFRSITFK | PAR02XS | |
| 690 | LFRSRGIO | NTEONYS | |
| 691 | LFRTYOYX | SBKAPXH | |
| 692 | LFRTZPZX | SBKAPXH | |
| 693 | LFRTZTZX | SBKAPXH | |
| 694 | LFRUBZHO | MXNOODB | |
| 695 | LFRUBZHX | MXNXYDB | |
| 696 | LFSBAFRK | MLHKKAF | |
| 697 | LFSCCYXYH | CQFYYCR | |
| 698 | LFSCZPZX | CQFYYCR | |
| 699 | LFSCZTZX | CQFYYCR | |
| 700 | LFSDCTMY | DIJYYCR | |
| 701 | LFSDYXYH | CQFYYCR | |
| 702 | LFSDZPZX | CQFYYCR | |
| 703 | LFSDZTZX | CQFYYCR | |
| 704 | LFSFCTMA | LYNYYCR | |
| 705 | LFSFYIYA | CQFYYCR | |
| 706 | LFSFYWYA | CQFYYCR | |

| | AFTN Address | SITA Customer | Remark |
|-----|---------------------|----------------------|---------------|
| 707 | LFSFYXYE | CQFYYCR | |
| 708 | LFSFYXYF | CQFYYCR | |
| 709 | LFSFYXYS | CQFYYCR | |
| 710 | LFSFYXYX | CQFYYCR | |
| 711 | LFSFZPZX | CQFYYCR | |
| 712 | LFSFZTZX | CQFYYCR | |
| 713 | LFSGXHAK | EPLKKXH | |
| 714 | LFSIYXYH | CQFYYCR | |
| 715 | LFSIZPZX | CQFYYCR | |
| 716 | LFSIZTZX | CQFYYCR | |
| 717 | LFSOYXYH | CQFYYCR | |
| 718 | LFSOYXXYS | CQFYYCR | |
| 719 | LFSOZPZX | CQFYYCR | |
| 720 | LFSOZTZX | CQFYYCR | |
| 721 | LFSRYXYH | CQFYYCR | |
| 722 | LFSRYXYX | CQFYYCR | |
| 723 | LFSRZPZX | CQFYYCR | |
| 724 | LFSRZTZX | CQFYYCR | |
| 725 | LFSTAFRK | SXBKKAF | |
| 726 | LFSXYXYE | CQFYYCR | |
| 727 | LFSXYXYF | CQFYYCR | |
| 728 | LFSXYXYH | CQFYYCR | |
| 729 | LFSXYXXYS | CQFYYCR | |
| 730 | LFSXPZPX | CQFYYCR | |
| 731 | LFSXTTZX | CQFYYCR | |
| 732 | LFTHXHAX | TLNAPXH | |
| 733 | LFTWDEFO | FNIAVXH | |
| 734 | LFTZXHAX | LTTAPXH | |
| 735 | LFWBYWYX | CQFYYCR | |
| 736 | LFXAYXYH | CQFYYCR | |
| 737 | LFXCYXYX | CQFYYCR | |
| 738 | LFXKYXYX | CQFYYCR | |
| 739 | LFXOYCYX | CQMYYCR | |
| 740 | LFXOYWYX | CQFYYCR | |
| 741 | LFXOYZQ | CQFYYCR | |
| 742 | LFXRYXYX | CQFYYCR | |
| 743 | LFXVYCYX | LYNYYCR | |
| 744 | LFXVYWYX | CQFYYCR | |
| 745 | LFXVYZQ | CQFYYCR | |
| 746 | LFXVYXYM | CQFYYCR | |
| 747 | LFXVZXVS | CQFYYCR | |
| 748 | LFYAYCYX | DRAYYCR | |
| 749 | LFYAYWYX | CQFYYCR | |
| 750 | LFYRYXYV | CQFYYCR | |
| 751 | LFYUYXYX | CQFYYCR | |
| 752 | LFYXCIEL | CQFYYCR | |
| 753 | LFYXYXYD | CQFYYCR | |
| 754 | LGATAEEX | ATHOWA3 | |

| | AFTN Address | SITA Customer | Remark |
|-----|---------------------|----------------------|---------------|
| 755 | LGATAFRK | ATHKKAF | |
| 756 | LGATCPAX | ATH15XS | |
| 757 | LGATCRLO | ATHXXXS | |
| 758 | LGATNOAX | ATH90XS | |
| 759 | LGATOALT | ATHXTOA | |
| 760 | LGATOALX | ATHXYOA | |
| 761 | LGATQMYX | ATHXXXS | |
| 762 | LGATSITA | ATH01XS | |
| 763 | LGATSITB | ATH01XS | |
| 764 | LGATSITD | ATH01XS | |
| 765 | LGATSITF | ATH02XS | |
| 766 | LGATSITN | ATH03XS | |
| 767 | LGATSITT | ATH04XS | |
| 768 | LGATSITX | ATH86XS | |
| 769 | LGATTMHM | ATHXXXS | |
| 770 | LGATXMYX | ATHXXXS | |
| 771 | LGATYNYX | ATHXXXS | |
| 772 | LGATZRZX | ATHXXXS | |
| 773 | LGATZXAV | ATHXXXS | |
| 774 | LGATZXZV | ATHXXXS | |
| 775 | LGAVAEEX | ATHOWA3 | |
| 776 | LGAVAFLX | ATH46XS | |
| 777 | LGAVAVWF | ATHARXH | |
| 778 | LGAVBERF | ATHAPAB | |
| 779 | LGAVCPAX | ATH15XS | |
| 780 | LGAVINJX | ATHDDCR | |
| 781 | LGAVMONF | ATHAPZB | |
| 782 | LGAVNOAX | ATH90XS | |
| 783 | LGAVOALT | ATHXTOA | |
| 784 | LGAVSITA | ATH01XS | |
| 785 | LGAVSITB | ATH01XS | |
| 786 | LGAVSITD | ATH01XS | |
| 787 | LGAVSITF | ATH02XS | |
| 788 | LGAVSITN | ATH03XS | |
| 789 | LGAVSITT | ATH04XS | |
| 790 | LGAVSITX | ATH86XS | |
| 791 | LGAVTRAF | ATHAPHV | |
| 792 | LGAVWEOA | ATHXXXS | |
| 793 | LIIDEEZW | MXPGW8X | |
| 794 | LIRFAZAW | FCOOWAZ | |
| 795 | LLAEROHL | TLVAHXH | |
| 796 | LLBGGHIA | TLVFZKH | |
| 797 | LMMLAMCW | MLAOKM | |
| 798 | LOOOAUAO | VIEOOOS | |
| 799 | LOOOLDAX | VIEXYNG | |
| 800 | LOOOEYEX | VIEEXBYA | |
| 801 | LOWWAUAO | VIEOOOS | |
| 802 | LOWWLDA | VIEXYNG | |

| | AFTN Address | SITA Customer | Remark |
|-----|---------------------|----------------------|---------------|
| 803 | LOWWYEYX | VIEEXBYA | |
| 804 | LPAZSATA | SMAKLSP | |
| 805 | LPCRSATW | CVUSAXH | |
| 806 | LPFGUALD | LISDDUA | |
| 807 | LPFSSEUO | PARODSE | |
| 808 | LPGRSATW | GRWSAXH | |
| 809 | LPPISATW | PIXSAXH | |
| 810 | LPPTAFRK | LISKKAF | |
| 811 | LPPTBAWK | LISKKBA | |
| 812 | LPPTDLHK | LISYKLH | |
| 813 | LPPTHEOW | LISKOXH | |
| 814 | LPPTHFYO | LISOZ5K | |
| 815 | LPPTKLMK | LISKKKL | |
| 816 | LPPTLAMK | LISKKTM | |
| 817 | LPPTMMZW | LISOWYU | |
| 818 | LPPTNJEW | LISOWII | |
| 819 | LPPTPEFO | GVAPA7X | |
| 820 | LPPTPGAO | LISOWNI | |
| 821 | LPPTSATW | LISOWSP | |
| 822 | LPPTTAPA | FAOOETP | |
| 823 | LPPTTAPB | GIGOWTP | |
| 824 | LPPTTAPC | LISCHTP | |
| 825 | LPPTTAPD | GRUOWTP | |
| 826 | LPPTTAPE | RECKKTP | |
| 827 | LPPTTAPF | FNCKOTP | |
| 828 | LPPTTAPG | FORKPTP | |
| 829 | LPPTTAPH | SSAKPTP | |
| 830 | LPPTTAPI | EWRKKTP | |
| 831 | LPPTTAPJ | OXBKKT | |
| 832 | LPPTTAPK | LADKKTP | |
| 833 | LPPTTAPL | CCSKKTP | |
| 834 | LPPTTAPM | LISKUTP | |
| 835 | LPPTTAPN | MPMKKTP | |
| 836 | LPPTTAPQ | LISYOTP | |
| 837 | LPPTTAPP | OPOOETP | |
| 838 | LPPTTAPQ | ORYKLTP | |
| 839 | LPPTTAPR | HREKKTP | |
| 840 | LPPTTAPT | LADOWTP | |
| 841 | LPPTTAPU | SIDKKTP | |
| 842 | LPPTTAPV | HORKKTP | |
| 843 | LPPTTAPW | TERKZTP | |
| 844 | LPPTTAPX | LISXVTP | |
| 845 | LPPTTAPY | LISKUTP | |
| 846 | LPPTTAPZ | DKRKKTP | |
| 847 | LPPTYAYC | LISCAYA | |
| 848 | LPPTYDYA | LISOWXH | |
| 849 | LPPTYKYF | LISOWXH | |
| 850 | LPPTYKYX | LISOWXH | |

| | AFTN Address | SITA Customer | Remark |
|-----|---------------------|----------------------|---------------|
| 851 | LPSJSATW | SJZSAXH | |
| 852 | LROPROTO | OTPOORO | |
| 853 | LSGGDGXX | GVADAXH | |
| 854 | LSGGEAVX | LJUEAXH | |
| 855 | LSGGGJCX | GVAGJCR | |
| 856 | LSGGIATA | GVALDXB | |
| 857 | LSGGIATX | GVAXYXB | |
| 858 | LSGGPJSX | GVAPJPP | |
| 859 | LSGSAJSX | SIRAJXH | |
| 860 | LSGSYDYX | SIRAPXH | |
| 861 | LSZBNUMX | BRNNNMXH | |
| 862 | LSZHCLCX | ZRHOAXH | |
| 863 | LSZHCLXA | ZRHCL8X | |
| 864 | LSZHEDWX | ZRHEOWK | |
| 865 | LSZHEXHX | ZRHEXXH | |
| 866 | LSZHJLKX | ZRHJKXH | |
| 867 | LSZHNFXX | ZRHNFCR | |
| 868 | LSZHOAWX | ZRHOC2L | |
| 869 | LSZHPJSP | ZRHPPP | |
| 870 | LSZHPJSX | ZRHPHPP | |
| 871 | LSZHPJZX | ZRHPJXH | |
| 872 | LSZHVCNX | ZRHAV8X | |
| 873 | LSHZPZA | ZRHAAYF | |
| 874 | LSZMCRXK | GVAKKLX | |
| 875 | LSZMCRXR | BSLFXLX | |
| 876 | LSZMFHEX | BSLOOXH | |
| 877 | LSZMYYYX | ZRHAA8X | |
| 878 | LTBAGASX | ISTGSXH | |
| 879 | LTBAIRAK | ISTKKIR | |
| 880 | LTBAIRAX | ISTKKIR | |
| 881 | LTBATHYW | ISTOWTK | |
| 882 | LTBAYYYX | ISTUSXH | |
| 883 | LTBSSBAX | DLMSBXH | |
| 884 | MDSDIBED | SDQOXIB | |
| 885 | MMMXLAFX | MEXALXH | |
| 886 | MUFHYCYX | HAVYVCU | |
| 887 | MUHAYFYA | HAVXTCU | |
| 888 | MUHAYSYA | HAVXGCU | |
| 889 | MULHYAYX | HAVYACU | |
| 890 | MULHYFYX | HAVXVCU | |
| 891 | NTAAAFRO | PPTXYYF | |
| 892 | NTAATHTE | PPTOWTN | |
| 893 | NTAATHTO | PPTOOTN | |
| 894 | NTAAVTAO | PPTOWVT | |
| 895 | NWWNACIX | NOUXYSB | |
| 896 | NWWNAFRK | NOUKKAF | |
| 897 | NWWNANZX | NOUXYNZ | |
| 898 | NWWNQFAX | NOUXYQF | |

| | AFTN Address | SITA Customer | Remark |
|-----|---------------------|----------------------|---------------|
| 899 | NWWNSITX | SINXTXS | |
| 900 | NWWNTPCX | NOUTYSB | |
| 901 | NWWNXHKL | NOUKLXH | |
| 902 | NWWWACIX | NOUXYSB | |
| 903 | NWWWAFRK | NOUKKAF | |
| 904 | NWWWFAX | NOUXYQF | |
| 905 | NZAAJALO | AKLOOJL | |
| 906 | NZAAJALX | AKLXYJL | |
| 907 | NZAKARGG | AKLXGAR | |
| 908 | NZAKSITX | SINXTXS | |
| 909 | NZCHYFYX | CHCXYYF | |
| 910 | NZCHYNYX | CHCXYYF | |
| 911 | NZCHZPZX | CHCXYYF | |
| 912 | NZPMREGX | PMRKKQF | |
| 913 | NZWBREGX | BHEKKQF | |
| 914 | NZWNREGX | WLGYQF | |
| 915 | NZWNZQRX | WLGYQF | |
| 916 | OBBIYFYX | BAHXYYF | |
| 917 | OBBIYMYX | BAHXYYF | |
| 918 | OBBIZPZX | BAHXYYF | |
| 919 | OEJDSVAY | JEDYFSV | |
| 920 | OEJNSVAN | JEDNNSV | |
| 921 | OIIIAFRK | THRKKAF | |
| 922 | OIIIAFRX | THRXYAF | |
| 923 | OIIIAUAK | THRKKOS | |
| 924 | OIIIAZAK | THRKKAZ | |
| 925 | OIIIAZAX | THRXYAZ | |
| 926 | OIIIDLHS | THRSSLH | |
| 927 | OIIIDLHX | THR2XLH | |
| 928 | OIIIGFAX | THRXYGF | |
| 929 | OIIIRAA | THRAAIR | |
| 930 | OIIIRAC | THRCCIR | |
| 931 | OIIIRAD | THRDDIR | |
| 932 | OIIIRAG | THRXYGIR | |
| 933 | OIIIRAI | THRIIIR | |
| 934 | OIIIRAN | THRNMIR | |
| 935 | OIIIACT | THRTTKU | |
| 936 | OIIIKLMK | THRKKKL | |
| 937 | OIIIKLMX | THRXYKL | |
| 938 | OIIPIAU | THRUUPK | |
| 939 | OIIISITY | THRYFXS | |
| 940 | OIIISVAX | THRXXSV | |
| 941 | OIIISYRT | THRTTRB | |
| 942 | OIIISYRX | THRXYRB | |
| 943 | OIIITHYT | THRTTTK | |
| 944 | OIIITHYX | THRXYTK | |
| 945 | OIIUAEK | THRKEK | |
| 946 | OIIYFYX | THRXYTF | |

| | AFTN Address | SITA Customer | Remark |
|-----|---------------------|----------------------|---------------|
| 947 | OIIITYE | THRXTYF | |
| 948 | OIITSITN | THRNMXS | |
| 949 | OIITSYRT | THRTTRB | |
| 950 | OJAILRSO | AMMOPRZ | |
| 951 | OLBAAFRK | BEYKKAF | |
| 952 | OLBAAFRX | BEYXYAF | |
| 953 | OLBAAI CX | BEYXYAI | |
| 954 | OLBAALKX | BEYXYUL | |
| 955 | OLBAAZAX | BEYXYZ | |
| 956 | OLBADLHX | BEY2XLH | |
| 957 | OLBAESMX | BEYEAXH | |
| 958 | OLBAGFAP | BEYPPGF | |
| 959 | OLBAGFAX | BEYXYGF | |
| 960 | OLBAKACX | BEYXYKU | |
| 961 | OLBAKKAZ | BEYKKAZ | |
| 962 | OLBAKKRJ | BEYKKRJ | |
| 963 | OLBAKZRJ | BEYKZRJ | |
| 964 | OLBAMEAE | BEYEEME | |
| 965 | OLBAMEAO | BEYOOME | |
| 966 | OLBAMEAW | BEYOWME | |
| 967 | OLBAMEAX | BEYXYME | |
| 968 | OLBASITX | SINXTXS | |
| 969 | OLBASVAK | BEYKKS V | |
| 970 | OLBASVAS | BEYSSV | |
| 971 | OLBASVAX | BEYXYSV | |
| 972 | OLBATHYX | BEYXYTK | |
| 973 | OLBAUPAZ | BEYUPAZ | |
| 974 | OLBAUVAZ | BEYUVAZ | |
| 975 | OLBAXHAP | BEYKPXH | |
| 976 | OMAE NYX | DXBXYYF | |
| 977 | OMAEZQZX | DXBXYYF | |
| 978 | OMDBKQAX | DXBXYKQ | |
| 979 | OMDBMASD | DXBDDMH | |
| 980 | OMDEUAEK | DXBKKEK | |
| 981 | OMDBYAYX | DXBAPYF | |
| 982 | OMDBYMYX | DXBXYYF | |
| 983 | OMDBZPZX | DXBXYYF | |
| 984 | OMDBZTZX | DXBXYYF | |
| 985 | OMDMZTZX | DXBXYYF | |
| 986 | OMFJZTZX | DXBXYYF | |
| 987 | OMRKRJET | RKTRJXH | |
| 988 | OMSJ DVNX | DXBXYYF | |
| 989 | OMSJ JT LX | DXBXYYF | |
| 990 | OMSJ LFRX | DXBXYYF | |
| 991 | OMSJ UASX | SHJWZ7X | |
| 992 | OMSJ YOYX | DXBXYYF | |
| 993 | OMSJ ZPZX | DXBXYYF | |
| 994 | OMSJ ZQZX | DXBXYYF | |

| | AFTN Address | SITA Customer | Remark |
|------|---------------------|----------------------|---------------|
| 995 | OMSJ ZTZX | DXBXYYF | |
| 996 | OMZZNGXX | DXBXYYF | |
| 997 | OPKCAAAX | KHIAVXH | |
| 998 | OPKCPIAV | KHIVTPK | |
| 999 | OPLAPIAW | LHEOVPK | |
| 1000 | OPRNPIAW | ISBOVPK | |
| 1001 | OSDIAFRK | DAMKKAF | |
| 1002 | OSDIAFRX | DAMXYAF | |
| 1003 | OSDIAZAK | DAMKKAZ | |
| 1004 | OSDICPAX | DAMXXCX | |
| 1005 | OSDIDAHU | DAMUUAH | |
| 1006 | OSDIFASD | DXBPAXH | |
| 1007 | OSDIFASX | DAMFAXH | |
| 1008 | OSDIFPGX | DAMXYFP | |
| 1009 | OSDIGFAO | DAMOOGF | |
| 1010 | OSDIGFAS | DAMSSGF | |
| 1011 | OSDI HISX | DAMID7X | |
| 1012 | OSDI IAWX | DAMTOIA | |
| 1013 | OSDI IIRAK | DAMKKIR | |
| 1014 | OSDI IIRAL | DAMLLIR | |
| 1015 | OSDI IIEO | DAMOOIY | |
| 1016 | OSDI IIEZ | DAMXCIY | |
| 1017 | OSDI JXSX | DXBJX7X | |
| 1018 | OSDI KACA | KWIOSKU | |
| 1019 | OSDI KACB | KWIOSKU | |
| 1020 | OSDI KACC | KWIOSKU | |
| 1021 | OSDI KACD | KWIOSKU | |
| 1022 | OSDI KACE | KWIOSKU | |
| 1023 | OSDI KACF | KWIOSKU | |
| 1024 | OSDI KACG | KWIOSKU | |
| 1025 | OSDI KACH | KWIOSKU | |
| 1026 | OSDI KACI | KWIOSKU | |
| 1027 | OSDI KACJ | KWIOSKU | |
| 1028 | OSDI KACK | DAMKKU | |
| 1029 | OSDI KACL | KWIOSKU | |
| 1030 | OSDI KACM | KWIOSKU | |
| 1031 | OSDI KACN | KWIOSKU | |
| 1032 | OSDI KACO | KWIOSKU | |
| 1033 | OSDI KACP | KWIOSKU | |
| 1034 | OSDI KACQ | KWIOSKU | |
| 1035 | OSDI KACR | DAMRMKU | |
| 1036 | OSDI KACS | KWIOSKU | |
| 1037 | OSDI KACT | KWIOSKU | |
| 1038 | OSDI KACU | KWIOSKU | |
| 1039 | OSDI KACV | KWIOSKU | |
| 1040 | OSDI KACW | KWIOSKU | |
| 1041 | OSDI KACX | KWIOSKU | |
| 1042 | OSDI KACY | KWIOSKU | |

| | AFTN Address | SITA Customer | Remark |
|------|---------------------|----------------------|---------------|
| 1043 | OSDIKACZ | KWIOSKU | |
| 1044 | OSDIMSRD | DAMDDMS | |
| 1045 | OSDIMMSRO | DAMOOAMS | |
| 1046 | OSDIPJSX | DAMXYPP | |
| 1047 | OSDISITX | SINXTXS | |
| 1048 | OSDISSXH | DAMSSXH | |
| 1049 | OSDISVAO | DAMSDSV | |
| 1050 | OSDISVAS | DAMSSSV | |
| 1051 | OSDISVAX | DAMXYSV | |
| 1052 | OSDISYRC | DAMCTRIB | |
| 1053 | OSDISYRO | DAMOORB | |
| 1054 | OSDISYRT | DAMTTRB | |
| 1055 | OSDITARC | DAMCCTU | |
| 1056 | OSDITHYX | DAMXYTK | |
| 1057 | OSDIUAEK | DAMKKEK | |
| 1058 | OSDIUASX | DAMWZ7X | |
| 1059 | OTBDYAAF | DOHXYYF | |
| 1060 | OYSNMYX | SAHOPIY | |
| 1061 | OYSNOOIY | SAHXTIY | |
| 1062 | PAENYFYA | ENAAAYF | |
| 1063 | PANCNACX | ANCNAXH | |
| 1064 | PANCOCBR | ANCOCBR | |
| 1065 | PGUMCOAX | GUMXYCO | |
| 1066 | RCTPCALC | TPECCCI | |
| 1067 | RCTPCALN | TPENNCI | |
| 1068 | RCTPCALO | TPEOOCI | |
| 1069 | RCTPCALY | TPEYYCI | |
| 1070 | RCTPEVAO | TPEOOBR | |
| 1071 | RCTPSITC | PARADXS | |
| 1072 | RCTPSITT | PARAEXS | |
| 1073 | RCTPSITX | SINXTXS | |
| 1074 | RCTPYAYX | TPEXYYA | |
| 1075 | RCTPYFYX | TPEXYF | |
| 1076 | RCTPZRZX | TPEXYF | |
| 1077 | RFPOARFO | ORYALXH | |
| 1078 | RPLBFDXX | MNLXYFX | |
| 1079 | RPLLJALO | MNLOOJL | |
| 1080 | RPLLSITA | MNLAAAYF | |
| 1081 | RPLLSITS | MNLSHXS | |
| 1082 | RPLLSITX | MNLXTXS | |
| 1083 | RPLLTHAO | MNLLOOTG | |
| 1084 | RPLLYAYX | MNLXYAA | |
| 1085 | SAEZIBED | EZEOXIB | |
| 1086 | SBGLIBED | GIGOXIB | |
| 1087 | SCALLANW | SCLOWLA | |
| 1088 | SCEDLANO | SCLOOLA | |
| 1089 | SCEDLANW | SCLOWLA | |
| 1090 | SCELIBED | SCLOXIB | |

| | AFTN Address | SITA Customer | Remark |
|------|---------------------|----------------------|---------------|
| 1091 | SCELLANG | SCLXGLA | |
| 1092 | SCELLANO | SCLXFLA | |
| 1093 | SCELLANW | SCLOWLA | |
| 1094 | SCELLCOO | SCLOALA | |
| 1095 | SCELSITX | SINXTXS | |
| 1096 | SCELXHAA | SCLACXH | |
| 1097 | SITASITA | SINMSXS | |
| 1098 | SITXYFYX | SINXTXS | |
| 1099 | TPPPBWAO | POSOOBW | |
| 1100 | UAAABMKX | ALAXYYF | |
| 1101 | UAAACCAR | ALARMCA | |
| 1102 | UAAAOCUX | ALAXYYF | |
| 1103 | UGEABPXX | MOWXYYF | |
| 1104 | UGEUZXZX | MOWXYYF | |
| 1105 | UGGGZTZX | TBSXYYF | |
| 1106 | UHMLYMYX | MOWXYYF | |
| 1107 | UKBBUIRX | KBPIN7X | |
| 1108 | UKBBYDPP | KBPXYYF | |
| 1109 | UKBBYDYU | KBPXYYF | |
| 1110 | UKBBYDYX | KBPXYYF | |
| 1111 | UKBBYFYX | KBPXYYF | |
| 1112 | UKBBYWJJ | KBPXYYF | |
| 1113 | UKKACGXX | IEVCGPS | |
| 1114 | UKKSITX | SINXTXS | |
| 1115 | UKKKYFYX | IEVXYYF | |
| 1116 | UKKKYNYX | IEVXYYF | |
| 1117 | UMMMSITX | SINXTXS | |
| 1118 | UMMTTXCX | MOWXYAL | |
| 1119 | UNKLZXZX | MOWXYYF | |
| 1120 | UNNTBFDU | OVBBFXH | |
| 1121 | UTDDSMRX | DYUTO4J | |
| 1122 | UTTAUZBL | MOWLLHY | |
| 1123 | UUEEYMYX | SVOXYYF | |
| 1124 | UUEEZTZX | SVOXYYF | |
| 1125 | UUEUZXZX | MOWXYYF | |
| 1126 | UUUUSITX | SINXTXS | |
| 1127 | UUUUTSOD | MOWDDUN | |
| 1128 | UUUUTSOJ | MOWJJUN | |
| 1129 | UUUUYEYX | MOWXYYF | |
| 1130 | UUUUYFYX | MOWXYYF | |
| 1131 | UUUUYFYZ | MOWXCYF | |
| 1132 | UUUUYMYX | MOWXYYF | |
| 1133 | UUUUYNYX | MOWXYYF | |
| 1134 | UUWVZQZX | MOWXYYF | |
| 1135 | UZZZYFYX | MOWXYYF | |
| 1136 | UZZZYNYX | MOWXYYF | |
| 1137 | UWLWIEBF | MOWXYYF | |
| 1138 | VABAICO | BOMOOAI | |

| | AFTN Address | SITA Customer | Remark |
|------|---------------------|----------------------|---------------|
| 1139 | VABBAICX | BOMXYAI | |
| 1140 | VABBKFRX | TULAF1S | |
| 1141 | VABBSITX | BOMXNXS | |
| 1142 | VABBSVAO | BOMOCVS | |
| 1143 | VCBIZQZX | CMBXYYF | |
| 1144 | VCCCCPYX | CMBXYYF | |
| 1145 | VCCCCZQZX | CMBXYYF | |
| 1146 | VDPPYAYC | PNHCAYA | |
| 1147 | VGHQYFYX | DACXYYF | |
| 1148 | VHHHCPAC | HKGXXCX | |
| 1149 | VHHHCPAD | HKGXXCX | |
| 1150 | VHHHCPAH | HKGHHCX | |
| 1151 | VHHHCPAI | HKGXXCX | |
| 1152 | VHHHCPAO | HKGOWCX | |
| 1153 | VHHHCPAP | HKGKCCX | |
| 1154 | VHHHCPAQ | HDQOMCX | |
| 1155 | VHHHCPAV | HKGVOCX | |
| 1156 | VHHHCPAW | HKGOWCX | |
| 1157 | VHHHCPAX | HKGXXCX | |
| 1158 | VHHHCPAY | HKGYYCX | |
| 1159 | VHHHNMCP | HDQOOCX | |
| 1160 | VHHHPJSX | HKGPJPP | |
| 1161 | VHHHSITX | SINXTXS | |
| 1162 | VHHHYMYX | HKGXYUA | |
| 1163 | VHHHYNYR | HDQOOCX | |
| 1164 | VHHHYQYX | HKGXQUA | |
| 1165 | VHHHYUYX | HKGXUUA | |
| 1166 | VHZZCPAY | HKGOWCX | |
| 1167 | VHZZNMX | HDQOOCX | |
| 1168 | VIDPAICO | DELOOAI | |
| 1169 | VQPRDRKX | QJCDDKB | |
| 1170 | VTBBAARK | BKKKKOZ | |
| 1171 | VTBBAARX | BKKXYOZ | |
| 1172 | VTBBAFLX | BKKXYSU | |
| 1173 | VTBBAFRR | BKKRMAF | |
| 1174 | VTBBAFRX | BKKXYAF | |
| 1175 | VTBBAICK | BKKKKAI | |
| 1176 | VTBBAICO | BKKOOAI | |
| 1177 | VTBBAICR | BKKRMAI | |
| 1178 | VTBBAICX | BKKXYAI | |
| 1179 | VTBBAIOW | BKKXYYF | |
| 1180 | VTBBAPDU | BKKXYYF | |
| 1181 | VTBAZAX | BKKXYAZ | |
| 1182 | VTBBBBCX | BKKXYBG | |
| 1183 | VTBCALX | BKKXYCI | |
| 1184 | VTBBCLXX | BKKXYCV | |
| 1185 | VTBCPAX | BKKXXCX | |
| 1186 | VTBDLHD | BKK2DLH | |

| | AFTN Address | SITA Customer | Remark |
|------|---------------------|----------------------|---------------|
| 1187 | VTBBDLHX | BKK2XLH | |
| 1188 | VTBBFDXX | BKKXYFX | |
| 1189 | VTBBFINK | BKKKKAY | |
| 1190 | VTBBFINX | BKKXYAY | |
| 1191 | VTBBGIA | BKKXYGA | |
| 1192 | VTBBJALO | BKKOOJL | |
| 1193 | VTBBKACS | BKKSSKU | |
| 1194 | VTBBKALX | BKKXYKE | |
| 1195 | VTBBKLMK | BKKKKKL | |
| 1196 | VTBBMASX | BKKXYMH | |
| 1197 | VTBBMSRX | BKKXYMS | |
| 1198 | VTBBRBAS | BKKSSBI | |
| 1199 | VTBBSASX | BKKXYSK | |
| 1200 | VTBBSIAX | BKKXYSQ | |
| 1201 | VTBBSITB | BKKBBXS | |
| 1202 | VTBBSITX | BKKXTXS | |
| 1203 | VTBDADMA | BKKAAXH | |
| 1204 | VTBDAZAW | BKKOWAZ | |
| 1205 | VTBDAZAX | BKKXYAZ | |
| 1206 | VTBDGFAO | BKKOOGF | |
| 1207 | VTBDHANX | BKKHAXH | |
| 1208 | VTBDKACO | BKKOOKU | |
| 1209 | VTBDTHAW | BKKOWTG | |
| 1210 | VTBDYMYX | SINYJXS | |
| 1211 | VTBOSTHAW | HDQOWTG | |
| 1212 | VTSPTHAU | BKKUUTG | |
| 1213 | VVVVYAAN | HANXXYA | |
| 1214 | VVVVZGZX | HANXYF | |
| 1215 | VYYYYAYX | RGNXYYA | |
| 1216 | VYYYYNYX | RGNXYF | |
| 1217 | WIIIDP | CGKXYF | |
| 1218 | WIIINYX | CGKXYF | |
| 1219 | WIIIZQZX | CGKXYF | |
| 1220 | WIIIZRZX | CGKXYF | |
| 1221 | WMKKCALO | KULOOCI | |
| 1222 | WMKKCALX | KULXYCI | |
| 1223 | WMKKCPAX | KULXXCX | |
| 1224 | WMKKFOFX | SINFFXH | |
| 1225 | WMKKJALO | KULOOJL | |
| 1226 | WMKKMASD | DPCNMMH | |
| 1227 | WMKKMASF | DPCCFMH | |
| 1228 | WMKKMASU | KULUUMH | |
| 1229 | WMKKSI | SINOCSQ | |
| 1230 | WMKKSI | SINNMKS | |
| 1231 | WMKKTHAO | KULOOTG | |
| 1232 | WMLMASD | KULDDMH | |
| 1233 | WMSATHTX | KULXTTH | |
| 1234 | WSSLCMPL | SINOPXH | |

| | AFTN Address | SITA Customer | Remark |
|------|---------------------|----------------------|---------------|
| 1235 | WSSLIPJSX | XSPPJPP | |
| 1236 | WSSLUVAO | XSPOOUV | |
| 1237 | WSSSACAX | SINOJSQ | |
| 1238 | WSSSANZX | SINOJSQ | |
| 1239 | WSSSCCAX | SINOJSQ | |
| 1240 | WSSSCLXX | SINOJSQ | |
| 1241 | WSSSEVAX | SINOJSQ | |
| 1242 | WSSSFFOX | SINFFXH | |
| 1243 | WSSSIATA | SINESXB | |
| 1244 | WSSSJALJ | SINJJL | |
| 1245 | WSSSJALO | SINOJL | |
| 1246 | WSSSJALQ | SINQQJL | |
| 1247 | WSSSPALX | SINOJSQ | |
| 1248 | WSSSPFAX | SINPFCR | |
| 1249 | WSSSRJAX | SINOJSQ | |
| 1250 | WSSSRNAX | SINOJSQ | |
| 1251 | WSSSSIAA | SINOOSQ | |
| 1252 | WSSSSIAB | SINOOSQ | |
| 1253 | WSSSSIAC | SINOOSQ | |
| 1254 | WSSSSIAD | SINOOSQ | |
| 1255 | WSSSSIAE | SINOOSQ | |
| 1256 | WSSSSIAF | SINOBSQ | |
| 1257 | WSSSSIAG | SINOOSQ | |
| 1258 | WSSSSIAH | SINOOSQ | |
| 1259 | WSSSSIAI | SINWISQ | |
| 1260 | WSSSSIAJ | SINOJSQ | |
| 1261 | WSSSSIAK | SINOOSQ | |
| 1262 | WSSSSIAL | SINOOSQ | |
| 1263 | WSSSSIAM | SINOOSQ | |
| 1264 | WSSSSIAN | SINOOSQ | |
| 1265 | WSSSSIAO | SINOOSQ | |
| 1266 | WSSSSIAP | SINOOSQ | |
| 1267 | WSSSSIAQ | SINOOSQ | |
| 1268 | WSSSSIAR | SINOOSQ | |
| 1269 | WSSSSIAS | SINOOSQ | |
| 1270 | WSSSSIAT | SINOOSQ | |
| 1271 | WSSSSIAU | SINOOSQ | |
| 1272 | WSSSSIAV | SINOOSQ | |
| 1273 | WSSSSIAW | SINOOSQ | |
| 1274 | WSSSSIAX | SINOBSQ | |
| 1275 | WSSSSIAY | SINOOSQ | |
| 1276 | WSSSSIAZ | SINOOSQ | |
| 1277 | WSSSSITB | QXT05XS | |
| 1278 | WSSSSITW | SINXWXS | |
| 1279 | WSSSSITX | SINXTXS | |
| 1280 | WSSSSITY | SINXMXS | |
| 1281 | WSSSSITZ | SINXTXS | |
| 1282 | WSSSSLKO | SINOOMI | |

| | AFTN Address | SITA Customer | Remark |
|------|---------------------|----------------------|---------------|
| 1283 | WSSSSVAX | SINOJSQ | |
| 1284 | WSSSXBOA | SINO03Y | |
| 1285 | YBBBYFYS | BNEXSYF | |
| 1286 | YMMCYMYX | MELXYYF | |
| 1287 | YMMLYDPP | MELXYYF | |
| 1288 | YMMLYFYX | MELXYYF | |
| 1289 | YMMMZozX | MELXYYF | |
| 1290 | YMMMZQZA | MELXYYF | |
| 1291 | YMMMZQZX | MELXYYF | |
| 1292 | YPPHYDPP | PERXYYF | |
| 1293 | YPPHZRZA | PERXYYF | |
| 1294 | YPPHZTZX | PERXYYF | |
| 1295 | YPRFYMYX | PERXYYF | |
| 1296 | YSSSZDZX | SYDAPYF | |
| 1297 | YSSYAZAX | SYDXYZ | |
| 1298 | YSSYCPAK | SYDKKCX | |
| 1299 | YSSYCPAX | SYDXXCX | |
| 1300 | YSSYKLMK | SYDKKKL | |
| 1301 | YSSYQFAA | SYDXJQF | |
| 1302 | YSSYQFAB | SYDXJQF | |
| 1303 | YSSYQFAC | SYDXJQF | |
| 1304 | YSSYQFAD | SYDXJQF | |
| 1305 | YSSYQFAE | SYDXJQF | |
| 1306 | YSSYQFAF | SYDXJQF | |
| 1307 | YSSYQFAG | SYDXJQF | |
| 1308 | YSSYQFAH | SYDXJQF | |
| 1309 | YSSYQFAI | SYDXJQF | |
| 1310 | YSSYQFAJ | SYDXJQF | |
| 1311 | YSSYQFAK | SYDXJQF | |
| 1312 | YSSYQFAL | SYDXJQF | |
| 1313 | YSSYQFAM | SYDXJQF | |
| 1314 | YSSYQFAN | SYDXJQF | |
| 1315 | YSSYQFAO | SYDXJQF | |
| 1316 | YSSYQFAP | SYDXJQF | |
| 1317 | YSSYQFAQ | SYDXJQF | |
| 1318 | YSSYQFAR | SYDXJQF | |
| 1319 | YSSYQFAS | SYDXJQF | |
| 1320 | YSSYQFAT | SYDXJQF | |
| 1321 | YSSYQFAU | SYDXJQF | |
| 1322 | YSSYQFAV | SYDXJQF | |
| 1323 | YSSYQFAW | SYDXJQF | |
| 1324 | YSSYQFAX | SYDXJQF | |
| 1325 | YSSYQFAY | SYDXJQF | |
| 1326 | YSSYQFAZ | SYDXJQF | |
| 1327 | YSSYSITB | SINXTXS | |
| 1328 | YSSYTHAW | SYDOWTG | |

A.2 Conversion table SITA to AFTN addresses (XA Table) (Dec 2012)

| | SITA Address | AFTN Address | Remark |
|----|---------------------|---------------------|---------------|
| 1 | BREXYYF | EDDWYFYX | |
| 2 | CGNXYYF | EDDKYFYX | |
| 3 | DRSXYYF | EDDCYFYX | |
| 4 | DUSXYYF | EDDLYFYX | |
| 5 | ERFXYYF | EDDEYFYX | |
| 6 | FMOXYYF | EDDGYFYX | |
| 7 | FRAJJYF | EDDDYFYJ | |
| 8 | FRAXYYF | EDDFYFYX | |
| 9 | FRAYGYF | EDDAYGCD | |
| 10 | HAJXYYF | EDDVZPZX | |
| 11 | HAMXYYF | EDDHYPYX | |
| 12 | HAMZYYF | EDDHZPZX | |
| 13 | LEJXYYF | EDDPYFYX | |
| 14 | MUCXYYF | EDDMZPZX | |
| 15 | NUEXYYF | EDDNYFYX | |
| 16 | SCNXYYF | EDDRYFYX | |
| 17 | STRXYYF | EDDSYFYX | |
| 18 | SXFXXYYF | EDDBYFYX | |
| 19 | TXLXYYF | EDDTYFYX | |
| 20 | ENAAAYF | PAENYFYA | |
| 21 | MKCOOYF | KATLYTAA | |
| 22 | AKLXYYF | NZCHYFYX | |
| 23 | BNEXSYF | YBBBYFYS | |
| 24 | BNEXYYF | YBBBYFYX | |
| 25 | MELXYYF | YMMLYFYX | |
| 26 | PERXYYF | YPPHYFYX | |
| 27 | SYDAPYF | YSSSYFYA | |
| 28 | SYDXJYF | YSSYSITB | |
| 29 | SYDXSYF | YSSSYFYX | |
| 30 | SYDXYYF | YSSSYFYX | |
| 31 | AMSXTYF | EHAMYFYX | |
| 32 | AMSXYYF | EHAMYFYX | |
| 33 | THRXXYYF | OIIIIYFYX | |
| 34 | EBBXYYF | HUENXYYF | |
| 35 | NBOXYYF | HKNAYFYX | |
| 36 | MOWTOV8 | UUUVAVST | |
| 37 | MOWXCYF | UUUUYFYZ | |
| 38 | MOWXTYF | UUUUYFYX | |
| 39 | DAMXYYF | OSDIYFYX | |
| 40 | DAMYAYF | OSDIYAYF | |
| 41 | IEVCAPS | UKKACAXX | |
| 42 | IEVCBPS | UKKACBXX | |
| 43 | IEVCGPS | UKKACGXX | |
| 44 | IEVXTYF | UKKKYFYX | |
| 45 | IEVYAPS | UKKAYAYF | |
| 46 | KBPIN7X | UKBBUIRX | |

| | SITA Address | AFTN Address | Remark |
|----|---------------------|---------------------|---------------|
| 47 | KBPTR7X | UKBBYFAX | |
| 48 | KBPXTYF | UKBBYFYX | |
| 49 | LWOARPS | UKLLBFXX | |
| 50 | BRUXTYF | EBBRYFYX | |
| 51 | BRUXYYF | EBBRYFYX | |
| 52 | MNLXSYF | RPHIYFYX | |
| 53 | MNLXYYA | RPHIYAYX | |
| 54 | MNLXYYF | RPHIYFYX | |
| 55 | TPEXYYA | RCTPYAYX | |
| 56 | TPEXYYF | RCTPYFYX | |
| 57 | KULXYYF | WMKKYFYX | |
| 58 | JNBXYYF | FAJSYNYX | |
| 59 | PRYXMYF | FAPRYMYX | |
| 60 | TUNXYYF | DTTCYFYX | |
| 61 | CPHXTYF | EKCHYFYX | |
| 62 | BEYXYYF | OLBAYFYX | |
| 63 | ALAXTYF | UAAAYFYX | |
| 64 | ANCAFYA | PAAZAQZX | |
| 65 | BOMFFYF | VABBYFYF | |
| 66 | BOMXSYF | VABBYFYX | |
| 67 | BOMXYYF | VABBYFYX | |
| 68 | CMBAFYA | VCCCZRZQ | |
| 69 | CMBXYYF | VCBIYFYX | |
| 70 | HANXYYA | VVVVYAYX | |
| 71 | HANXYYF | VVVVYFYX | |
| 72 | MADAPYF | LEMDYFYA | |
| 73 | MADXYYF | LEMDYFYX | |
| 74 | NYCAFYA | KZNYZQZX | |
| 75 | OAKAFYA | KZOAZQZX | |
| 76 | PMIAPYF | LEPAYFYA | |
| 77 | SINAAYA | WSSSYAYA | |
| 78 | SINXYYF | WSSSYFYX | |
| 79 | TYOAFYA | RJTGZQZX | |
| 80 | GVAAAYF | LSSSYFYA | |
| 81 | GVABBYF | LSSSYFYB | |
| 82 | GVAXTYF | LSSSYFYX | |
| 83 | GVAXYYF | LSZZYNYX | |
| 84 | ZRHAAAYF | LSZHGPZA | |
| 85 | ZRHBBYF | LSZHGPZB | |
| 86 | ZRHCCYF | LSAZAMUX | |
| 87 | ORYXYYF | LFPOYFYX | |
| 88 | VIEXBYA | LOWWYEYX | |
| 89 | LISBAYA | LPPTYAYB | |
| 90 | LISTTYA | LPPTYAYT | |
| 91 | LISXYYF | LPPTYFYX | |

| | SITA Address | AFTN Address | Remark |
|----|---------------------|---------------------|----------------------------------|
| 92 | OXBDLAH | GGOVDAHD | not used (stat from Jan 2011) |
| 93 | OXBKFDT | GGOVDTAK | not used (stat from Jan 2011) |
| 94 | SMAAPAC | LPAZACAA | not used (stat from Jan 2011) |
| 95 | SMAAPLT | LPAZLTUA | 14. Mai 12 |
| 96 | SMAAPPP | LPAZPJSA | not used (stat from Jan 2011) |

| | SITA Address | AFTN Address | Remark |
|-----|---------------------|---------------------|----------------------------------|
| 97 | SMAAPXH | LPAZXHAA | 05. Aug 12 |
| 98 | SMAOWAA | LPAZAALW | not used (stat from Jan 2011) |
| 99 | SMAXYYF | LPAZZZZA | |
| 100 | ADDXTYF | HAABYFYX | |
| 101 | ADDXYYF | HAABYFYX | |
| 102 | NOUAAYA | NWWNYAYA | |
| 103 | NOUDDYA | NWWNYAYD | |
| 104 | NOUNNYA | NWWNYAYN | |
| 105 | NOUXYYF | NWWNYFYX | |

A.3 List of AFTN addresses for AFTN origin validation (Dec 2012)

| | AFTN Address | Remark |
|----|---------------------|---------------|
| 1 | CYHQYNYX | |
| 2 | CZQXZQZX | |
| 3 | CZVRTMUW | |
| 4 | DAALAHTU | |
| 5 | DTMBLBTO | |
| 6 | DTMBTARO | |
| 7 | DTNHLBTO | |
| 8 | DTNHTARO | |
| 9 | DTNZTARO | |
| 10 | DTTAEDFK | |
| 11 | DTTAKARS | |
| 12 | DTTAKZRJ | |
| 13 | DTTALNXH | |
| 14 | DTTAPHAK | |
| 15 | DTTASITX | |
| 16 | DTTASTXH | |
| 17 | DTTASVAK | |
| 18 | DTTATAJK | |
| 19 | DTTATARO | |
| 20 | DTTGZTZX | |
| 21 | DTTJKARS | |
| 22 | DTTJLBTO | |
| 23 | DTTJTARO | |
| 24 | DTTVYAYF | |
| 25 | DTTVYAYX | |
| 26 | DTTVYYAX | |

| | AFTN Address | Remark |
|----|---------------------|---------------|
| 27 | DTTXSYAO | |
| 28 | EDDFDLHD | |
| 29 | EDDFDLHI | |
| 30 | EDDFDLHU | |
| 31 | EDDFGECO | |
| 32 | EDDFSXSX | |
| 33 | EDDFTAIX | |
| 34 | EDDFXHAX | |
| 35 | EDDFXLFX | |
| 36 | EDDMKSTX | |
| 37 | EDDMZPZX | |
| 38 | EDDNZPZX | |
| 39 | EDDTBERA | |
| 40 | EDDV TUIO | |
| 41 | EDHIAIBX | |
| 42 | EFSSVDAX | |
| 43 | EGGWMONO | |
| 44 | EGGXZOZX | |
| 45 | EGKKAFSX | |
| 46 | EGKKPGFX | |
| 47 | EGKKVIRW | |
| 48 | EGLISITX | |
| 49 | EGLLAALO | |
| 50 | EGLLBAWC | |
| 51 | EGLLBAWH | |
| 52 | EGLLSITA | |

| | AFTN Address | Remark |
|----|---------------------|---------------|
| 53 | EGLLSITX | |
| 54 | EGLLZPZX | |
| 55 | EGSSGSSX | |
| 56 | EGSSVDAX | |
| 57 | EHAMCKSX | |
| 58 | EHAMKLMF | |
| 59 | EHAMMPHO | |
| 60 | EHAMMPHP | |
| 61 | EHAMMPHX | |
| 62 | EHAMTRAC | |
| 63 | EHAMTRAK | |
| 64 | EHAMYIAG | |
| 65 | EIDWRYRX | |
| 66 | EKCHYFAA | |
| 67 | ELLXCLXO | |
| 68 | EPWALOTO | |
| 69 | EPWALOTU | |
| 70 | ETARYXYX | |
| 71 | EUCBZMFP | |
| 72 | EUCHCEUW | |
| 73 | EUCHZMFP | |
| 74 | EUECYIYN | |
| 75 | EVRABTIO | |
| 76 | FACTZPZX | |
| 77 | FAJSSAAO | |
| 78 | FAJSYFYX | |
| 79 | FAJSZPZX | |
| 80 | FCBBZPZX | |
| 81 | FEFFZPZX | |
| 82 | FKKDZPZX | |
| 83 | FLLSZPZX | |
| 84 | FMEEREUO | |
| 85 | FMMMYNYX | |
| 86 | FNLUDTAX | |
| 87 | FNLUYFUX | |
| 88 | FNLUYFYX | |
| 89 | FNLUZPZX | |
| 90 | FNLUZTZX | |
| 91 | FPSTZPZX | |
| 92 | FVHAZPZX | |
| 93 | FYWHZPZX | |
| 94 | GGOVZPZX | |
| 95 | GGOYZPZX | |

| | AFTN Address | Remark |
|-----|---------------------|---------------|
| 96 | GMADMAIO | |
| 97 | GMADRAMO | |
| 98 | GMGULMIM | |
| 99 | GMMLRAMO | |
| 100 | GMMNRAMK | |
| 101 | GMMNRAMO | |
| 102 | GMMNRAMW | |
| 103 | GMMNSVAO | |
| 104 | GMTARAMO | |
| 105 | GMTTRAMO | |
| 106 | GOOYZPZX | |
| 107 | GVACSAAO | |
| 108 | GVACTCVK | |
| 109 | GVACZPZX | |
| 110 | GVBAZPZX | |
| 111 | GVNPCTVO | |
| 112 | GVNPZPZX | |
| 113 | GVSVTCVK | |
| 114 | GVSVZPZX | |
| 115 | HAABZPZX | |
| 116 | HCMMYFYX | |
| 117 | HECASITX | |
| 118 | HECASVAO | |
| 119 | HEGNZIZX | |
| 120 | HEGNZPZX | |
| 121 | HELXZIZX | |
| 122 | HKJKAWKQ | |
| 123 | HKJKKQAW | |
| 124 | HKJKZPZX | |
| 125 | HLLTZPZX | |
| 126 | HSSSZPZX | |
| 127 | KATLYTAA | |
| 128 | KATYXAAX | |
| 129 | KCMHSOOD | |
| 130 | KDXBJXSX | |
| 131 | KDXBUASX | |
| 132 | KDZZNAXX | |
| 133 | KEWRFOID | |
| 134 | KHDQHISX | |
| 135 | KHDQREIA | |
| 136 | KHOUPTXX | |
| 137 | KISTKZUX | |
| 138 | KJFKGDIA | |

| | AFTN Address | Remark |
|-----|---------------------|---------------|
| 139 | KJFKIBEO | |
| 140 | KJFKSAAO | |
| 141 | KJFKSWRW | |
| 142 | KKOOCAXX | |
| 143 | KLGBPACO | |
| 144 | KLXRANXH | |
| 145 | KMEMFDXR | |
| 146 | KMIAAGTIW | |
| 147 | KMIAIBEO | |
| 148 | KMSJCJSX | |
| 149 | KORDXORD | |
| 150 | KSDFUPSB | |
| 151 | KSDFUPSI | |
| 152 | KSDFUPSQ | |
| 153 | KSDFUPSY | |
| 154 | KSFOVRDX | |
| 155 | KSNAXAAX | |
| 156 | KTRIRUNI | |
| 157 | KZBWZQZX | |
| 158 | KZCNZQZX | |
| 159 | KZMAZQZX | |
| 160 | KZNYZRZC | |
| 161 | LCLKCYOC | |
| 162 | LEMDDLHD | |
| 163 | LEMDIBED | |
| 164 | LEMDIBEW | |
| 165 | LEMDRAMK | |
| 166 | LEMDWEIB | |
| 167 | LEVCAANSO | |
| 168 | LFBCZPZX | |
| 169 | LFBDXHAF | |
| 170 | LFBDZPZX | |
| 171 | LFBGZPZX | |
| 172 | LFBMZPZX | |
| 173 | LFBOAFMI | |
| 174 | LFBOAIBK | |
| 175 | LFBOAIBN | |
| 176 | LFBOAIBY | |
| 177 | LFBTBIEO | |
| 178 | LFBWYWYX | |
| 179 | LFFAYNYX | |
| 180 | LFFAZXVN | |
| 181 | LFKSZPZX | |

| | AFTN Address | Remark |
|-----|---------------------|---------------|
| 182 | LFLCXHAM | |
| 183 | LFMATJTX | |
| 184 | LFMICTMA | |
| 185 | LFMICTMC | |
| 186 | LFMIZPZX | |
| 187 | LFMMZRZX | |
| 188 | LFMOZPZX | |
| 189 | LFMUYWYX | |
| 190 | LFMYZPZX | |
| 191 | LFOACTMA | |
| 192 | LFOAZPZX | |
| 193 | LFOEZPZX | |
| 194 | LFOJZPZX | |
| 195 | LFOTZPZX | |
| 196 | LFPBDSOO | |
| 197 | LFPBIXRO | |
| 198 | LFPBLEAO | |
| 199 | LFPBTSAX | |
| 200 | LFPCZPZX | |
| 201 | LFPGAFNI | |
| 202 | LFPGAFRO | |
| 203 | LFPGAFRP | |
| 204 | LFPGAFRW | |
| 205 | LFPGCPAO | |
| 206 | LFPGYEYX | |
| 207 | LFPOCAJX | |
| 208 | LFPOCRLO | |
| 209 | LFPSAFRW | |
| 210 | LFPSSEUO | |
| 211 | LFPSITX | |
| 212 | LFPVCTMK | |
| 213 | LFPVZPZX | |
| 214 | LFRKCLGO | |
| 215 | LFRSRGIO | |
| 216 | LFRTZPZX | |
| 217 | LFSDZPZX | |
| 218 | LFSGXHAK | |
| 219 | LFSIZPZX | |
| 220 | LFSOZPZX | |
| 221 | LFSXYWYX | |
| 222 | LFSXZPZX | |
| 223 | LFVXYWYX | |
| 224 | LFVOYWYX | |

| | AFTN Address | Remark |
|-----|---------------------|---------------|
| 225 | LFXVYWYX | |
| 226 | LFXVYXYX | |
| 227 | LFYAYWYX | |
| 228 | LGATBERX | |
| 229 | LGGGNYX | |
| 230 | LGGGDZX | |
| 231 | LGIRZPZX | |
| 232 | LGITZPZX | |
| 233 | LGKRZPZX | |
| 234 | LGRPZPZX | |
| 235 | LIIDEEZW | |
| 236 | LIRFAZAW | |
| 237 | LJLJADRX | |
| 238 | LKPRYNYX | |
| 239 | LLBGELYW | |
| 240 | LLBGYDYF | |
| 241 | LLBGYDYX | |
| 242 | LMMLZPZX | |
| 243 | LOWITYWX | |
| 244 | LOWWAUAO | |
| 245 | LPAMYMYX | |
| 246 | LPAZYM | |
| 247 | LPAZZZZX | |
| 248 | LPFLYMYM | |
| 249 | LPFRYMYM | |
| 250 | LPHRYMYM | |
| 251 | LPLAZPZX | |
| 252 | LPMAYMYM | |
| 253 | LPMGYMYN | |
| 254 | LPPGAFRW | |
| 255 | LPPOZOZX | |
| 256 | LPPOZQZX | |
| 257 | LPPRYMYM | |
| 258 | LPPTHFYO | |
| 259 | LPPTMMZW | |
| 260 | LPPTNJEW | |
| 261 | LPPTPEFO | |
| 262 | LPPTPGAO | |
| 263 | LPPTSITX | |
| 264 | LPPTTAPO | |
| 265 | LPPTYFYX | |
| 266 | LPPTYMYM | |
| 267 | LROPROTO | |

| | AFTN Address | Remark |
|-----|---------------------|---------------|
| 268 | LSGGGJCX | |
| 269 | LSGGPTIX | |
| 270 | LSZBNUMX | |
| 271 | LSZHCAZX | |
| 272 | LSZHCLXA | |
| 273 | LSZHEXHX | |
| 274 | LSZHJLKX | |
| 275 | LSZHJPJSX | |
| 276 | LSZHJPJXH | |
| 277 | LSZHJPZX | |
| 278 | LSZHVCNX | |
| 279 | LSZMYYYX | |
| 280 | LTAISKYO | |
| 281 | LTBAFHGX | |
| 282 | LTBAGASX | |
| 283 | LTBATHYF | |
| 284 | LTBATHYR | |
| 285 | LTBATHYT | |
| 286 | LTBATHYW | |
| 287 | LUKKNBBLX | |
| 288 | LUKKTDMX | |
| 289 | MKJKZPZX | |
| 290 | MKJKZQZX | |
| 291 | MKJPAJMW | |
| 292 | MPTOYFYX | |
| 293 | MROCSPSX | |
| 294 | MROCYFYX | |
| 295 | MUFHZQZX | |
| 296 | MUHACUBW | |
| 297 | MUHAYNYX | |
| 298 | MUHAZPZX | |
| 299 | MYNNZQZX | |
| 300 | NTAATHTO | |
| 301 | NTAAAYMYX | |
| 302 | NTAAZPZX | |
| 303 | NWWNACIX | |
| 304 | NWWWZPZX | |
| 305 | NZAAZTZX | |
| 306 | NZCHYNYX | |
| 307 | OAKBYNYX | |
| 308 | OBBIZKZX | |
| 309 | OEDFYFYX | |
| 310 | OEDFZPZA | |

| | AFTN Address | Remark |
|-----|---------------------|---------------|
| 311 | OEJDYNYX | |
| 312 | OEJNSVAO | |
| 313 | OEJNSVAX | |
| 314 | OEJNZPZA | |
| 315 | OEJNZPZR | |
| 316 | OEJNZPZX | |
| 317 | OEJNZQZX | |
| 318 | OEJNZTZX | |
| 319 | OEMASVAO | |
| 320 | OERKACSV | |
| 321 | OERKNHXH | |
| 322 | OERKSVAC | |
| 323 | OERKYFYX | |
| 324 | OERKPZA | |
| 325 | OERKPZE | |
| 326 | OERKPZX | |
| 327 | OERKZQZX | |
| 328 | OIIEIRAO | |
| 329 | OIIIHANX | |
| 330 | OIIIRAO | |
| 331 | OIIIRAX | |
| 332 | OIIIRAZ | |
| 333 | OIIIRBX | |
| 334 | OIIIRMX | |
| 335 | OIIISVAX | |
| 336 | OIIIXTYF | |
| 337 | OIIYFYC | |
| 338 | OIIYNYX | |
| 339 | OIIIZQZX | |
| 340 | OIIIZRZX | |
| 341 | OIIIZTYF | |
| 342 | OIIIXQZX | |
| 343 | OIMSZTZX | |
| 344 | OJACQZX | |
| 345 | OJAIRJDP | |
| 346 | OJAIZPZX | |
| 347 | OKBKYFYX | |
| 348 | OLBAMEAW | |
| 349 | OLBASVKK | |
| 350 | OLBAZRZX | |
| 351 | OLDDYAYX | |
| 352 | OMAAETDX | |
| 353 | OMAAZAZX | |

| | AFTN Address | Remark |
|-----|---------------------|---------------|
| 354 | OMAAZPZX | |
| 355 | OMAEZPZX | |
| 356 | OMAEZRZX | |
| 357 | OMDBALKW | |
| 358 | OMDBBCCO | |
| 359 | OMDBFDBO | |
| 360 | OMDBUAEK | |
| 361 | OMDBUAEX | |
| 362 | OMDBYKYX | |
| 363 | OMDBZGZX | |
| 364 | OMDBZJZX | |
| 365 | OMDBZPZX | |
| 366 | OMDWZPZX | |
| 367 | OMSJYFYX | |
| 368 | OOMSOASO | |
| 369 | OOMSZPZX | |
| 370 | OPKCABQX | |
| 371 | OPKGDNX | |
| 372 | OPKCIPIAV | |
| 373 | OPKCSVAO | |
| 374 | ORBIZQZX | |
| 375 | ORERYNYX | |
| 376 | ORNIYNYX | |
| 377 | OSAPZPZX | |
| 378 | OSDIFASX | |
| 379 | OSDIHISX | |
| 380 | OSDIRAP | |
| 381 | OSDIJXSX | |
| 382 | OSDIMIXH | |
| 383 | OSDIMSRD | |
| 384 | OSDISRYO | |
| 385 | OSDISYRF | |
| 386 | OSDISYRO | |
| 387 | OSDIUASX | |
| 388 | OSDIYAYF | |
| 389 | OSDIYDYX | |
| 390 | OSDIZPZX | |
| 391 | OTBDYAAF | |
| 392 | OTBDZPZX | |
| 393 | PANCCALO | |
| 394 | PHNLHALO | |
| 395 | RCAAZRZX | |
| 396 | RCSSMDAX | |

| | AFTN Address | Remark |
|-----|---------------------|---------------|
| 397 | RCSSUIAO | |
| 398 | RCTPCAL0 | |
| 399 | RCTPCALC | |
| 400 | RCTPCALO | |
| 401 | RCTPCALY | |
| 402 | RCTPEVAO | |
| 403 | RCTPFDXX | |
| 404 | RCTPYFYX | |
| 405 | RCTPYNYX | |
| 406 | RCTPZPZX | |
| 407 | RJAAZPZX | |
| 408 | RJAZZZX | |
| 409 | RJCCZPZX | |
| 410 | RJJJZOZD | |
| 411 | RJJJZQZX | |
| 412 | RJTTJALQ | |
| 413 | RKRRYNYX | |
| 414 | RKSIZPZX | |
| 415 | RKSSABLO | |
| 416 | RKSSJJAO | |
| 417 | RKTNZTZX | |
| 418 | RPLLDNWI | |
| 419 | RPLLMSZX | |
| 420 | RPLLPALD | |
| 421 | RPLLPALI | |
| 422 | RPLLSOXH | |
| 423 | RPLSVAO | |
| 424 | SBCWZQZX | |
| 425 | SBFZZTZX | |
| 426 | SBGRYOYX | |
| 427 | SBRJYNYX | |
| 428 | SBSPGLOX | |
| 429 | SBSPTAMO | |
| 430 | SCELLANW | |
| 431 | SKEDZQZX | |
| 432 | SPSPTAMO | |
| 433 | TBPBATOM | |
| 434 | TBPBZQZX | |
| 435 | TGPYZPZX | |
| 436 | TPPPBWA0 | |
| 437 | TPPPZTZX | |
| 438 | UAAAZTZX | |
| 439 | UAAKZDZK | |

| | AFTN Address | Remark |
|-----|---------------------|---------------|
| 440 | UAFMBFXX | |
| 441 | UAFMYFYX | |
| 442 | UBBAZRZX | |
| 443 | UBBBAHYX | |
| 444 | UBBBYMW0 | |
| 445 | UBBBZPZX | |
| 446 | UBBGYMYX | |
| 447 | UBBGZPZX | |
| 448 | UBBLZPZX | |
| 449 | UBBNYMYX | |
| 450 | UBBQZPZX | |
| 451 | UHWWBFXX | |
| 452 | UHWWWTZX | |
| 453 | UKBBAEWN | |
| 454 | UKBBAEWX | |
| 455 | UKDDUMKX | |
| 456 | UKKKCBSX | |
| 457 | UKKKURAX | |
| 458 | UKKMADBX | |
| 459 | UKOOCAXX | |
| 460 | UKOOEIXX | |
| 461 | ULLITSOX | |
| 462 | ULLLTSOX | |
| 463 | UMMSZTZX | |
| 464 | UNKLZTZX | |
| 465 | UNNTSBIN | |
| 466 | UNNTZTZX | |
| 467 | UNTTZTZX | |
| 468 | URKKZTZX | |
| 469 | USCCZTZX | |
| 470 | USNNZTZX | |
| 471 | USSSSVRZ | |
| 472 | USSSZTZX | |
| 473 | UTAAZDZX | |
| 474 | UTAAZTZX | |
| 475 | UTDDZTZX | |
| 476 | UTTAUZBL | |
| 477 | UTTAUZBU | |
| 478 | UTTAUZKR | |
| 479 | UTTTUMSX | |
| 480 | UTTTZTZX | |
| 481 | UTTUYAYX | |
| 482 | UUDDTSON | |

| | AFTN Address | Remark |
|-----|---------------------|---------------|
| 483 | UUDDTSOO | |
| 484 | UUDDZTZX | |
| 485 | UUEEZTZX | |
| 486 | UUEUYRYA | |
| 487 | UUEUXZXZ | |
| 488 | UUMOGZPM | |
| 489 | UUMOPNXX | |
| 490 | UUMOYOYX | |
| 491 | UUUUCABH | |
| 492 | UUUUYFYX | |
| 493 | UUUUYNYX | |
| 494 | UUWZDZX | |
| 495 | UWIPNXX | |
| 496 | UWGGZTZX | |
| 497 | UWKDZTZX | |
| 498 | UWLWIEBF | |
| 499 | UWWWPOTX | |
| 500 | VABBAICO | |
| 501 | VABBJETX | |
| 502 | VABBSVAO | |
| 503 | VABBSVAX | |
| 504 | VABBYFYF | |
| 505 | VABBZPZX | |
| 506 | VABBZTZX | |
| 507 | VABIALKW | |
| 508 | VCBIALKW | |
| 509 | VCBILAKW | |
| 510 | VCBIMLRX | |
| 511 | VCBIYFYX | |
| 512 | VCBIYOYX | |
| 513 | VGEGZTZX | |
| 514 | VGHSSARLX | |
| 515 | VGHSSVAO | |
| 516 | VGZRSVAO | |
| 517 | VHHHCPAO | |
| 518 | VIDPAICO | |
| 519 | VIDPZPZX | |
| 520 | VOMFZRZX | |
| 521 | VOMMYNYX | |
| 522 | VOMMZIZX | |
| 523 | VOTVZRZX | |
| 524 | VTBBFDPMC | |
| 525 | VTBBHHCX | |

| | AFTN Address | Remark |
|-----|---------------------|---------------|
| 526 | VTBBTHAU | |
| 527 | VTBBYFYX | |
| 528 | VTBDADMA | |
| 529 | VTBDTHAK | |
| 530 | VTBDTHAW | |
| 531 | VTBDYNYX | |
| 532 | VTBSBFSX | |
| 533 | VTBSCALX | |
| 534 | VTBSCPAO | |
| 535 | VTBSCPAZ | |
| 536 | VTBSDLHX | |
| 537 | VTBSJALO | |
| 538 | VTBSSMASX | |
| 539 | VTBSSASX | |
| 540 | VTBSTHAO | |
| 541 | VTBSTHAT | |
| 542 | VTBSTHAW | |
| 543 | VTBSXXXX | |
| 544 | VTBUTHAO | |
| 545 | VTCCHTHAW | |
| 546 | VTSPBKPY | |
| 547 | VTSPTHAW | |
| 548 | VVNBZPZX | |
| 549 | VVTSZPZX | |
| 550 | WBKKYMYM | |
| 551 | WBKLYWYX | |
| 552 | WBSBRBAO | |
| 553 | WMATHTXW | |
| 554 | WMFPYFYX | |
| 555 | WMKKMASD | |
| 556 | WMKKMASU | |
| 557 | WMKKOOXH | |
| 558 | WMKKSSIAO | |
| 559 | WMKKTHAO | |
| 560 | WMKKYMYX | |
| 561 | WMKKYNYX | |
| 562 | WMKKYOYX | |
| 563 | WMSATHTX | |
| 564 | WMSAYFYX | |
| 565 | WRERRNYX | |
| 566 | WSSSFFOX | |
| 567 | WSSSSIAF | |
| 568 | WSSSSIAI | |

| | AFTN Address | Remark |
|-----|---------------------|---------------|
| 569 | WSSSSIAJ | |
| 570 | WSSSSIAX | |
| 571 | WSSSSIMX | |
| 572 | WSSSSIOX | |
| 573 | WSSSSITX | |
| 574 | WSSSYFYX | |
| 575 | WSSSZQZX | |
| 576 | YBBBZEZX | |
| 577 | YMMMZQZD | |
| 578 | YSSYQFAL | |
| 579 | YSSYQFAO | |
| 580 | YSSYQFAW | |
| 581 | ZBBBYNYX | |

| | AFTN Address | Remark |
|-----|---------------------|---------------|
| 582 | ZBBBGZXX | |
| 583 | ZGGGUOXX | |
| 584 | ZGGGYDZX | |
| 585 | ZGGGZPZX | |
| 586 | ZGSZZPZX | |
| 587 | ZMUBMGLX | |
| 588 | ZMUBMMLX | |
| 589 | ZMUBBGZXX | |
| 590 | ZMUBBPZX | |
| 591 | ZSCNZRZX | |
| 592 | ZSHCOMXX | |
| 593 | ZSNBZXZX | |
| 594 | ZYJMZPZX | |

Attachment B

B.1 List of current configured SITA Customer AFTN Addresses (Dec 2012)

List not available

| | AFTN Address | SITA Customer | Remark |
|---|--------------|---------------|--------|
| 1 | | | |
| 2 | | | |
| 3 | | | |

| | AFTN Address | SITA Customer | Remark |
|---|--------------|---------------|--------|
| 4 | | | |
| 5 | | | |

End of document