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LARA B2B Acceptance Tests

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Abstract

This document intends to support the formal Acceptance testing of the LARA NM B2B functionalities for a local implementation, allowing an AMC to receive its NM OPS certificate.

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DOCUMENT APPROVAL

The following table identifies all management authorities who have successively approved the present issue of this document.

AUTHORITY	NAME AND SIGNATURE	DATE
LARA Team DECMA/CMC/ATM	ir. Eric PETRE	- 9 OCT. 2019
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DOCUMENT CHANGE RECORD

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1 SUMMARY

This document covers the tests to be performed with any version of the LARA software using NM B2B PREOPS certificate in order to ensure readiness to start NM B2B OPS operations (i.e. using NM B2B OPS certificate).

It is not the intention to describe here the various options to configure LARA Server for NM B2B operations, nor to investigate all possible scenarios in exchanging AIXM Request/Reply through NM B2B URLs, but to ensure that mandatory parameters are properly configured to establish a successful and operationally meaningful connection with NM servers.

2 CONTEXT

LARA (Local And sub-Regional Airspace Management Support System) has been developed in order to improve Airspace Management processes by providing mutual visibility on civil and military requirements, by increasing mutual understanding and by enabling a more efficient collaborative decision-making process. The aim is to produce a harmonised national and regional ASM support system meeting the operational requirements of stakeholders.

LARA is a EUROCONTROL software package provided without additional charge to ECAC member States to support and enhance the airspace management process according to Advance Flexible Use of Airspace principles enabling collaborative decision-making and live situational awareness provision.

The LARA software is developed by the UK-based company Graffica under supervision of EUROCONTROL's Civil-Military ATM Coordination Division (CMAC). LARA's development and its requirements are based on operational best practices and are driven by its users.

LARA has been designed to support, amongst others, the provision and distribution of the Airspace Use Plan (AUP) and its updates (UUP).

The AUP is generated by LARA on the basis of all reservation data available for the referenced time period. The local airspace manager can specify a set of parameters that are used to calculate correct openings and closures of Conditional Routes. A user interface enables the airspace manager to remain in complete control of the AUP content, allowing adapting and changing data as necessary.

LARA is fully compatible with the latest NM B2B Web Services which allows LARA to create, update, delete, promote, and demote AUP/UUPs directly on the NM systems via this system's interface.

These functionalities are duly tested during Software Acceptance Tests (mainly during the Factory Acceptance Test performed for every major LARA release) for each of the system deliverables from Graffica. Their testing is therefore outside the scope of this document, which is limited to the local testing of a particular LARA configuration.

3 TESTING LARA SERVER

3.1. LARA SERVER Configuration

In its current supported configurations (LARA V3.0 & LARA V3.1) LARA – NM B2B interface is embedded within the LARA Server module. It is therefore configured within the LARA **serverSettings.gsdk** file.

The exhaustive list of "NM_B2B" parameters is provided in annex.

3.1.1 LARA Server logs

A general system parameter allows to specify the location of LARA Server logs directory. All NM B2B AIXM Request/Reply exchanges will be stored within an XmlExchanges sub-directory:

```
GSDK.REPORT.LOGDIRECTORY "%UserHome%/LARA/%LARAVersion%/LARAServer"
```

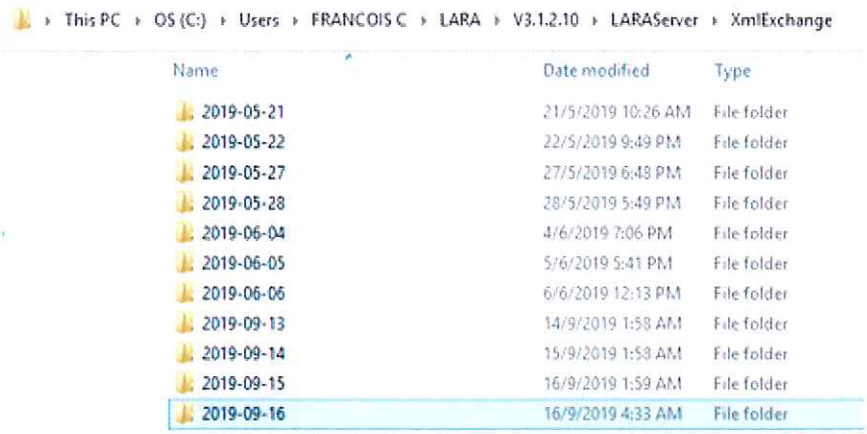

FIG. 1: XMLEXCHANGE DIRECTORY

3.1.2 NM TRUST_STORE

The two first parameters (NM_B2B.TRUST_STORE & TRUST_STORE_PASSWORD) are the SSL TrustStore certificate and its password, as provided by NM, and already embedded into the LARA signed jar file.
In the event of this certificate and/or associated password being updated by NM, you will have the option either to:

- upgrade to a more recent LARA release (which will include necessary updates), or
- update these values to the correct ones by using a local file that will be made available by NM and the LARA Team.

3.1.3 NM CERTIFICATES

Every entry for NM_B2B.CERTIFICATES is made out of 3 values, such as e.g.:

```
("EBBRZAMC", "C:/Program Files/LARA Server/NMB2B/BE_500.p12","change this password").
```

A valid (NM recognised) AMC identifier has to be specified for indicating which AMC(s) is involved in this LARA Server configuration. A complete list is available online at the EDQ Server and at least one should correspond to your AMC.

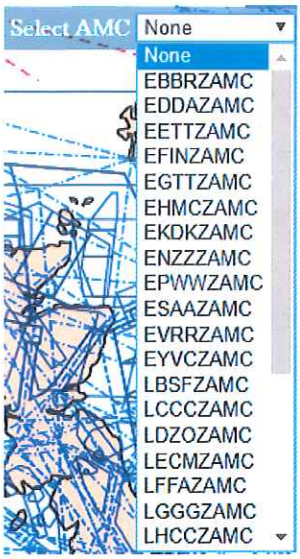

FIG. 2: VALID AMC

A valid file path and filename is mandatory to allow the LARA Server to access the NM-provided PREOPS "p12" certificate file, received as a result of the online request procedure. The associated password is communicated by phone whilst activating the certificate via the NM CSO Service.

3.1.4 NM URLs

You should ensure that a valid URL is defined for each NM B2B connection:

```
PREOPS.NM_B2B.ENDPOINT_URL
"https://www.b2b.preops.nm.eurocontrol.int/B2B_PREOPS/gateway/spec/22.5.0"
```

Both LARA System Administrator (launching the LARA Server) and the Housekeeper Client will only have access to a "***NM Web-Service Connection Type***" attribute (e.g. OPS/PREOPS), that will be mapped to the specified URL. Current LARA released version (V3.0.14.8 and LARA V3.1.1.10) supports up to and including NM22.5. It is expected that any future release will support NM23.0 and consecutives versions.

3.1.5 NM Proxies

NM allows connection to their NM B2B servers via the public internet and NewPENS network. Very often, this will require the LARA Server to pass through internal routers/proxies and associated authentication. If this is the case, the USE_PROXY parameter should be set to "true" and associated parameters should be defined accordingly:

```
//@description Whether to use a proxy to connect to NM B2B services or not.
NM_B2B.USE_PROXY "false"
//@description The IP address of the proxy.
NM_B2B.PROXY_ADDRESS "127.0.0.1"
//@description The port number of the proxy.
NM_B2B.PROXY_PORT 8000
//@description The username for the proxy.
NM_B2B.PROXY_USERNAME "lara"
//@description The password for the proxy.
NM_B2B.PROXY_PASSWORD "lara"
```

3.1.6 AUP automated validation

LARA Server has the capability to perform automated AUP/UUP validation by calling NM AUPValidationRequest. This functionality is enabled via the parameters NM_B2B.VALIDATE_LOCAL_AUPS_WITH_NM and NM_B2B.AUTO_VALIDATE_AUPS. For the tests described hereafter, these should initially be disabled by setting their value to "false".

All the others NM_B2B parameters up to here are not relevant.

3.2. LARA SERVER start-up

3.2.1 Initial LARA SERVER launch

After having started the LARA Discovery Server and tested the availability of a properly configured Postgresql server, the LARA Server should be launched with the NM B2B parameters as described here-above (para §3.1) without the *noLauncher* nor *noGraphics* options. This will allow the operator to access the LARA Server Launcher graphical interface.

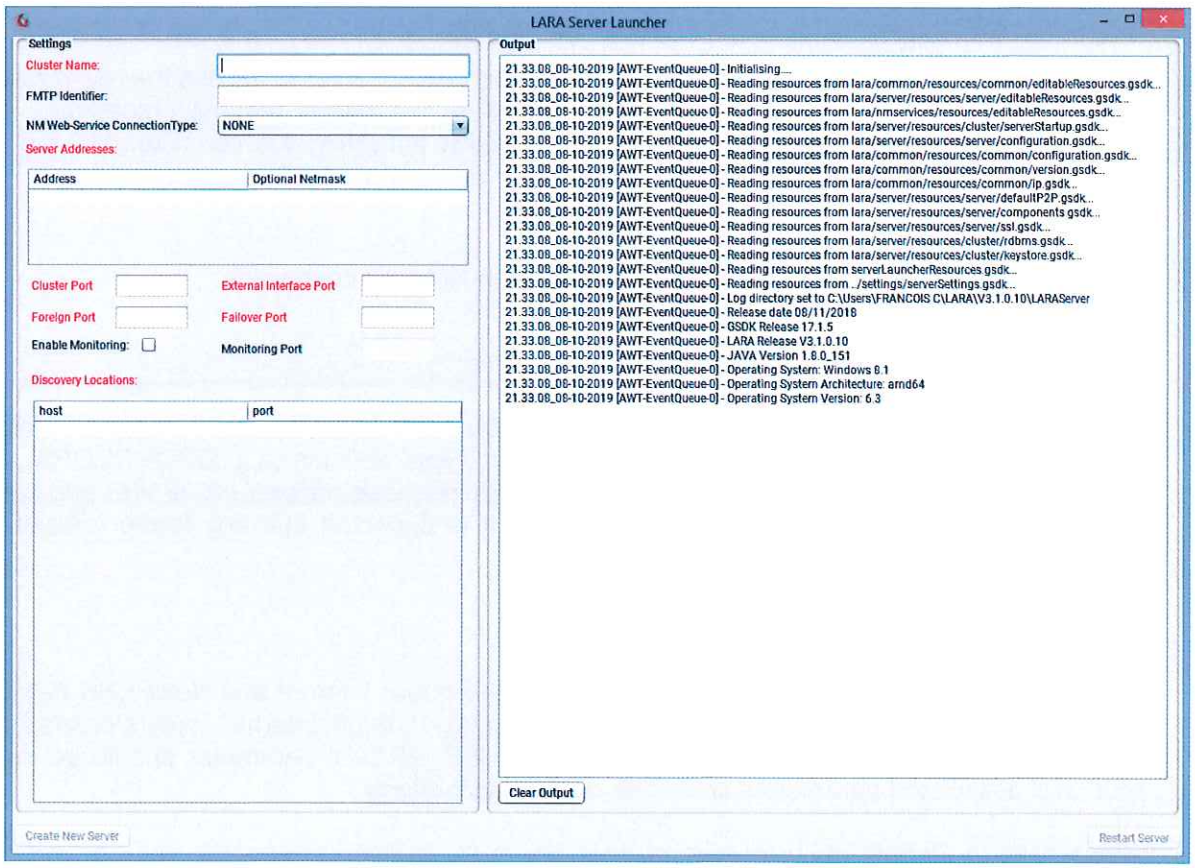

FIG. 3: LARA SERVER LAUNCHER

Mandatory parameters (red fields) should be filled in as described in the LARA Technical Manual. For testing the NM B2B connectivity, it is necessary to select the "***Restart Server***" button, meaning that you should have a pre-filled LARA Cluster Server, already loaded with a suitable EDQ dataset, as described in the LARA Housekeeper Manual (ensure that the necessary Supervisor role is granted with AUP privileges).

3.2.2 TEST 1: Initial LARA SERVER launch

If there has not yet been an attempt to connect the specified Cluster Name to NM B2B services, the default selected NM connection will be of type NONE. PREOPS should therefore be selected.

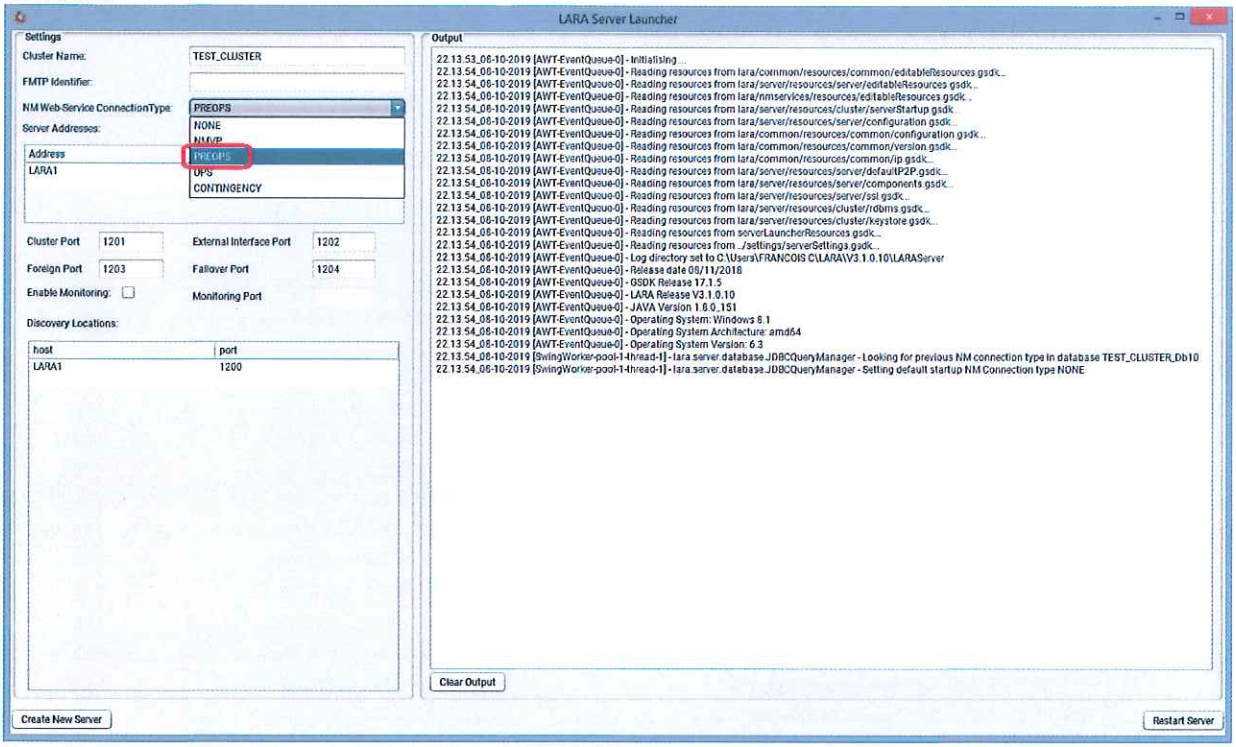

FIG. 4: NM CONNECTION TYPE

"***Restart Server***" will now trigger an initial connection to NM B2B Services using the NM_B2B parameters defined.

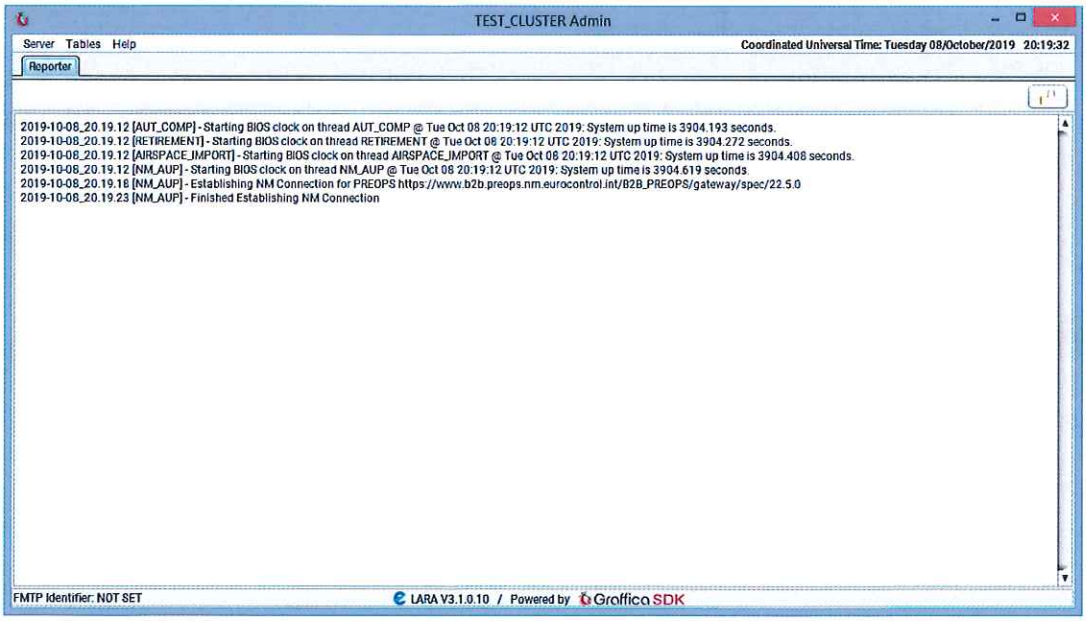

FIG. 5: SUCCESSFULL SERVER CONNECTION

The LARA Server graphical interface should report a successful connection to NM PREOPS (see Fig 5). If this is not the case, an analysis of the server log file should indicate the reason(s) for failure. If needed, support can be requested by providing the corresponding log to lara@eurocontrol.int.

In case of success, a new directory named with the test date should now appear in the XmlExchange LARA Server log directory:

OS (C:) ▸ Users ▸ FRANCOIS C ▸ LARA ▸ V3.1.0.10 ▸ LARAServer ▸ XmlExchange ▸ 2019-10-08

Name	Date modified	Type	Size
2019-10-08_20.19.23AUPServiceConfigurationReply(1).xml	8/10/2019 10:19 PM	XML File	1 KB
2019-10-08_20.19.23AUPServiceConfigurationReply.xml	8/10/2019 10:19 PM	XML File	1 KB
2019-10-08_20.19.23AUPServiceConfigurationRequest(1).xml	8/10/2019 10:19 PM	XML File	1 KB
2019-10-08_20.19.23AUPServiceConfigurationRequest.xml	8/10/2019 10:19 PM	XML File	1 KB
2019-10-08_20.19.24AUPChainRetrievalReply.xml	8/10/2019 10:19 PM	XML File	1 KB
2019-10-08_20.19.24AUPChainRetrievalRequest.xml	8/10/2019 10:19 PM	XML File	1 KB
2019-10-08_20.19.29AUPChainRetrievalReply.xml	8/10/2019 10:19 PM	XML File	1 KB
2019-10-08_20.19.29AUPChainRetrievalRequest.xml	8/10/2019 10:19 PM	XML File	1 KB
2019-10-08_20.19.31AUPChainRetrievalReply.xml	8/10/2019 10:19 PM	XML File	1 KB
2019-10-08_20.19.31AUPChainRetrievalRequest.xml	8/10/2019 10:19 PM	XML File	1 KB
2019-10-08_20.19.34AUPChainRetrievalReply.xml	8/10/2019 10:19 PM	XML File	1 KB
2019-10-08_20.19.34AUPChainRetrievalRequest.xml	8/10/2019 10:19 PM	XML File	1 KB
2019-10-08_20.19.36AUPChainRetrievalReply.xml	8/10/2019 10:19 PM	XML File	1 KB
2019-10-08_20.19.36AUPChainRetrievalRequest.xml	8/10/2019 10:19 PM	XML File	1 KB
2019-10-08_20.19.38AUPChainRetrievalRequest.xml	8/10/2019 10:19 PM	XML File	1 KB
2019-10-08_20.19.39AUPChainRetrievalReply.xml	8/10/2019 10:19 PM	XML File	1 KB
2019-10-08_20.19.41AUPChainRetrievalReply.xml	8/10/2019 10:19 PM	XML File	1 KB
2019-10-08_20.19.41AUPChainRetrievalRequest.xml	8/10/2019 10:19 PM	XML File	1 KB

You will have to fill-in the ***NM B2B Test Results Form*** (see Annex 2) by copying/pasting:

1.1. The content of the first <airspace:AUPServiceConfigurationReply> tag from the first AUPServiceConfigurationReply.xml file should be copied into the corresponding case of the Test Results Form.

1.2. The content of the first <ns12:AUPChainRetrievalRequest> tag from the first AUPChainRetrievalRequest.xml file should be copied into the corresponding case of the Test Results Form.

1.3. The content of the corresponding <airspace:AUPChainRetrievalReply> tag from the first AUPChainRetrievalReply.xml file should be copied into the corresponding case of the Test Results Form.

You will then need to shutdown the LARA Server.

3.2.3 TEST 2: LARA SERVER Validation

You must define in the LARA serverSettings.gsdk file that you now want to enable data validation by setting the parameter AUTO_VALIDATE_AUPS to "true":

```
//@description Whether data should be automatically validated for being up-to-date by
using NM's AUP validation services.
NM_B2B.AUTO_VALIDATE_AUPS TRUE
```

Set the AUTO_VALIDATE_AUPS_TIME parameter to a time in the near future in UTC time (3 to 4 minutes, in order to allow completion of the LARA Server restart):

```
//@description The time of day at which to perform automatic NM AUP validation.
NM_B2B.AUTO_VALIDATE_AUPS_TIME "08:10"
```

At the time specified, an automated AUPValidationRequest/Reply should be exchanged via NM B2B.

You will then need to fill-in the NM B2B Test Results Form by copying/pasting:

2.1. The content of the corresponding <airspace:AUPValidationReply> tag from the first AUPChainRetrievalReply.xml file should be copied into the corresponding case of the Test Results Form.

It may well be that some entries are incorrect, such as e.g.:

```
<airspace:AUPValidationReply>
  <requestReceptionTime>2019-10-09 08:10:16</requestReceptionTime>
  <requestId>B2B_CUR:7178924</requestId>
  <sendTime>2019-10-09 08:10:19</sendTime>
  <status>INVALID_INPUT</status>
  <inputValidationErrors>
    <attributes>
      <item>ID0065</item>
    </attributes>
    <group>AIRSPACE</group>
    <category>FUA</category>
    <type>AUP_RSA_ALLOCATION_AMC_NOT_RESPONSIBLE</type>
    <parameters/>
      <message>RSA allocation EBTRANH: The originator AMC must be the
      responsible for the Rsa of the RsaAllocations</message>
  </inputValidationErrors>
  …
  </airspace:AUPValidationReply>
```

This remains a valid test reply and should be copied into the NM B2B Test Result Forms. We advise that the LARA Housekeeper should be informed on the result of this test so that he/she can take corrective actions for the INVALID_INPUT warnings returned by NM.

3.3. LARA Client startup

3.3.1 Initiating the LARA Client session

You will need to start a LARA Client session, by using the credentials from a LARA "***Local User***", whose corresponding "***Local Role***" has been granted with AUP privileges:

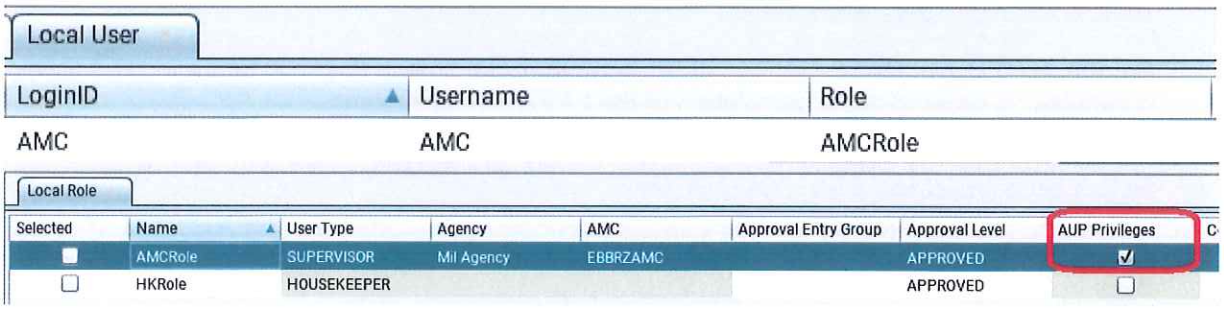

FIG. 6: HK DEFINED AUP PRIVILEGES

From any LARA Working Position (LWP) window tab (Airspace Planning Display, Airspace Status Display, etc), you can check the status of your NM B2B connection at the bottom of your screen:

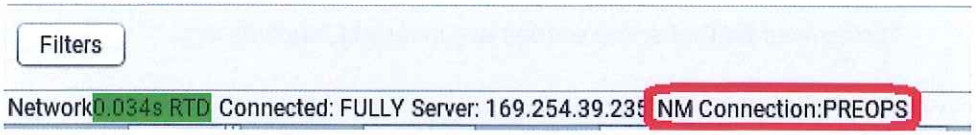

FIG. 7: NM CONNECTION STATUS

From the "Tools" menu, select the "***Generate AUP/UUP***" item:

FIG. 8: GENERATE AUP

Select a validity period for a reasonable date in the future (1 to 7 days), and check the "***NIL Use Plan***" option:

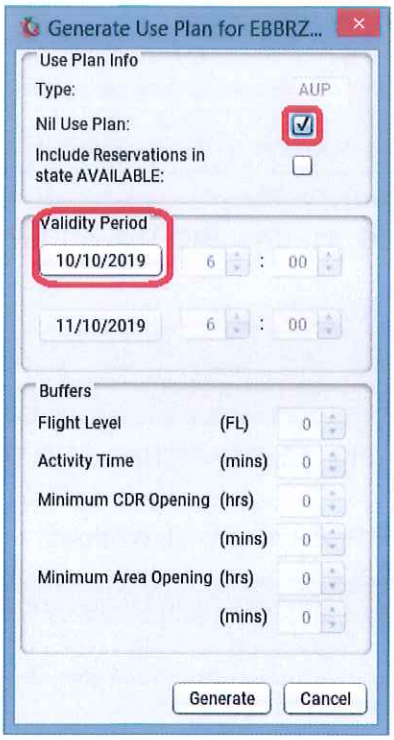

FIG. 9: DEFINE NIL AUP

Such an action should result in the creation of an AUP in the ***AUPs/UUPs*** tab of the ***Airspace Planning Display***:

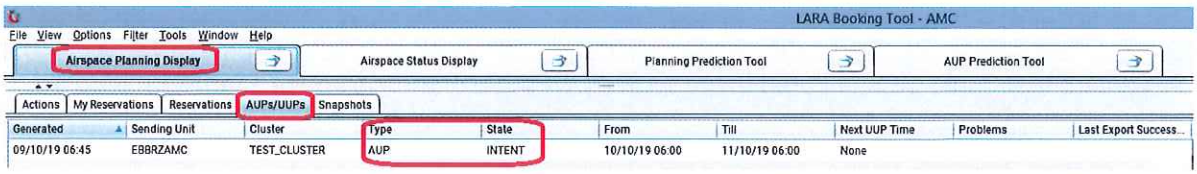

FIG. 10: AUP INTENT

3.3.2 TEST 3: Sending of the AUP to NM

Double-clicking on this entry will call the AUP Editor Window, where you should select the "***Edit***" button, followed by an "***Export To NM***" button:

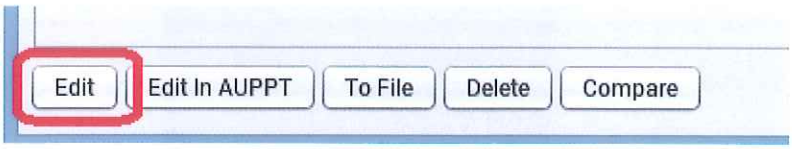

FIG. 11: CALLING THE AUP WINDOW

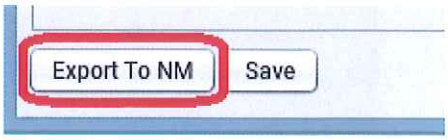

FIG. 12: EXPORTING AUP TO NM

Simply acknowledge the "AUP Problem" pop-up windows:

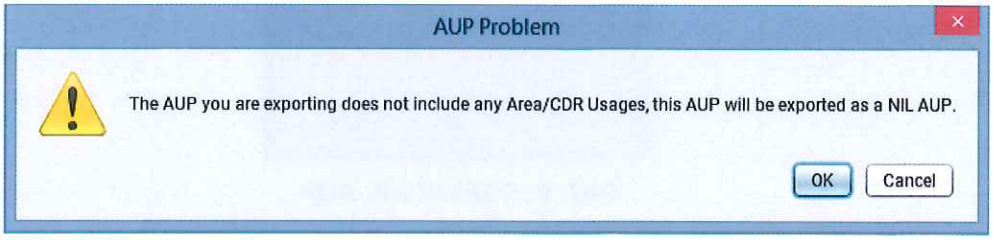

FIG. 13: AUP WARNING

Such an action should result in the exchange of an AUPCreationRequest/Reply with NM servers that could be monitored in the ***AUPs/UUPs*** tab of the ***Airspace Planning Display***:

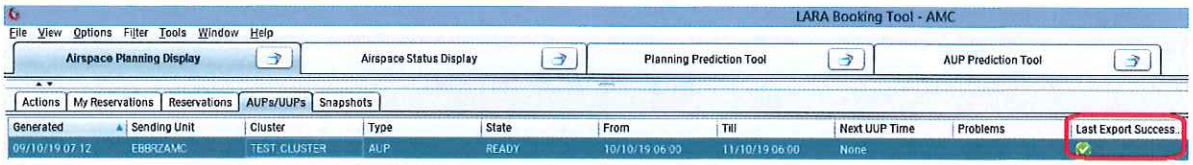

FIG. 14: SUCCESSFULL TRANSMISSION OF AN AUP

Actual exchanges are retrieved from the corresponding XmlExchange log sub-directory:

This PC ▸ OS (C:) ▸ Users ▸ FRANCOIS C ▸ LARA ▸ V3.1.0.10 ▸ LARAServer ▸ XmlExchange ▸ 2019-10-09

Name	Date modified	Type	Size
2019-10-09_07.10.52AUPServiceConfigurationReply.xml	9/10/2019 9:10 AM	XML File	1 KB
2019-10-09_07.10.52AUPServiceConfigurationRequest.xml	9/10/2019 9:10 AM	XML File	1 KB
2019-10-09_07.12.06AUPChainRetrievalRequest.xml	9/10/2019 9:12 AM	XML File	1 KB
2019-10-09_07.12.07AUPChainRetrievalReply.xml	9/10/2019 9:12 AM	XML File	1 KB
2019-10-09_07.12.19AUPCreationRequest.xml	9/10/2019 9:12 AM	XML File	2 KB
2019-10-09_07.12.26AUPCreationReply.xml	9/10/2019 9:12 AM	XML File	2 KB
2019-10-09_07.13.33AUPChainRetrievalReply.xml	9/10/2019 9:13 AM	XML File	1 KB
2019-10-09_07.13.33AUPChainRetrievalRequest.xml	9/10/2019 9:13 AM	XML File	1 KB

FIG. 15: AUPCREATIONREQUEST/REPLY

You will have to fill-in the NM B2B Test Results Form (see Annex 2) by copying/pasting:

3.1. The content of the <ns12:AUPCreationRequest> tag from the listed AUPCreationRequest.xml file should be copied into the corresponding case of the Test Results Form.

3.2. The content of the first <airspace:AUPCreationReply> tag from the listed AUPCreationReply.xml file should be copied into the corresponding case of the Test Results Form.

3.4. Communication of the Tests Result.

The completed ***ANNEX 2: NM B2B PREOPS TEST RESULTS FORM*** should be transmitted as soon as possible, ideally as an attachment to a mail send to lara@eurocontrol.int, in order to allow us to confirm successful creation of an AUP for your AMC on the NM PREOPS platform.

When acknowledged, we will further coordinate with the NM Service Requests unit for the delivery of your OPS certificate.

4 ANNEX 1: LARA NM B2B PARAMETERS

```
//@description the location of the trust store that is used to verify that the NM connection can be trusted.
NM_B2B.TRUST_STORE "lara/nmservices/resources/wsdl/TrustStore.jks"

//@description the trust store password
NM_B2B.TRUST_STORE_PASSWORD "2wsyv8;/afWMc"

//---settings for the connection to NM web-services, used to download AIRAC cycle airspace data and to send/receive AUPs, only of
interest if
//-- it is turned on in the launcher---
//@description Edit this resource to specify the location of your organisation's certificates and passwords to access the NM B2B
services for each AMC
NM_B2B.CERTIFICATES (
                        ( "EBBRZAMC", "C:/Program Files/LARA Server/NMB2B/BE_500.p12", "change this password" ),
                        ( "EGTTZAMC", "C:/Program Files/LARA Server/NMB2B/UK_500.p12", "change this password" )
                    )
//@description how often in minutes the LARA cluster server polls the NM B2B services to check for AUP updates. Max frequency
defined by NM is once a minute.
NM_B2B.AUP_POLL_RATE_IN_MINS 10
//@description How many days ahead of today the LARA cluster polls NM B2B for AUPs. It will also check for today's AUPs, so value
of 1 indicates only load AUPs for today and tomorrow. 6 indicates a week etc.
NM_B2B.AUP.FUTURE_POLL_DAYS 6

//@description where the temporary AIXM airspace files are placed on the server machine when the housekeeper requests an import be
done. The zip file is transfered from the housekeeper and unpacked into this directory on the server.
NM_B2B.AIRSPACE.DOWNLOAD_DIR "%UserHome%/LARA/AirspaceDownload"

//@description the time in minutes the LARA cluster server polls the NM B2B services to get the next UUP time.  The lowest time
period defined by NM is 10 minutes.
NM_B2B.NEXT_UUP_TIME_POLL_INTERVAL_IN_MINS 10

//@description the NM defined overload rate of AUP chain requests.  The first number provided is the maximum number of requests.
The second is the number of seconds over which the rate applies. This resource should define a frequency lower than that defined in
NM documentation, and should only be changed following updates to the rate by NM.
NM_B2B.AUP_CHAIN_OVERLOAD_RATE ( 25 , 60 )
```

```
//@description the NM defined overload rate of AUP requests.  The first number provided is the maximum number of requests. The
second is the number of seconds over which the rate applies. This resource should define a frequency lower than that defined in NM
documentation, and should only be changed following updates to the rate by NM.
NM_B2B.AUP_OVERLOAD_RATE ( 25 , 60 )

//@description URL for NM web services.  The section after the final '/' should be kept up-to-date with an operational version of
NM's services.
NMVP.NM_B2B.ENDPOINT_URL "https://www.b2b.nmvp.nm.eurocontrol.int/B2B_OPS/gateway/spec/22.0.0"
//@description URL for NM web services.  The section after the final '/' should be kept up-to-date with an operational version of
NM's services.
PREOPS.NM_B2B.ENDPOINT_URL "https://www.b2b.preops.nm.eurocontrol.int/B2B_PREOPS/gateway/spec/22.0.0"
//@description URL for NM web services.  The section after the final '/' should be kept up-to-date with an operational version of
NM's services.
OPS.NM_B2B.ENDPOINT_URL "https://www.b2b.nm.eurocontrol.int/B2B_OPS/gateway/spec/22.0.0"
//@description URL for NM web services.  The section after the final '/' should be kept up-to-date with an operational version of
NM's services.
CONTINGENCY.NM_B2B.ENDPOINT_URL "https://www.contingency.nm.eurocontrol.int:16443/B2B_OPS/gateway/spec/22.0.0"

//@description Whether to use a proxy to connect to NM B2B services or not.
NM_B2B.USE_PROXY "false"
//@description The IP address of the proxy.
NM_B2B.PROXY_ADDRESS "127.0.0.1"
//@description The port number of the proxy.
NM_B2B.PROXY_PORT 8000
//@description The username for the proxy.
NM_B2B.PROXY_USERNAME "lara"
//@description The password for the proxy.
NM_B2B.PROXY_PASSWORD "lara"

//@description true if a mismatch between the AUP in LARA and the AUP imported from NM B2B services should be alerted to AMC user
for them to deal with.
//false, if the mismatched AUP should be brought in from NM without alerting the user.
NM_B2B.SHOW_AUP_MISMATCH_WARNINGS TRUE

//@description Whether local AUPs should be automatically validated using NM's AUP validation services.
NM_B2B.VALIDATE_LOCAL_AUPS_WITH_NM FALSE

//@description Whether data should be automatically validated for being up-to-date by using NM's AUP validation services.
NM_B2B.AUTO_VALIDATE_AUPS FALSE

//@description The time of day at which to perform automatic NM AUP validation.
NM_B2B.AUTO_VALIDATE_AUPS_TIME "06:00"
```

```
//@description The number of days in the future to perform automatic NM AUP validation for.
NM_B2B.AUTO_VALIDATE_FUTURE_DAYS 1

//@description The email account to send to for NM AUP auto-validation emails.
NM_B2B.MAIL.SEND.TO "validation.results@example.com"
```

5 ANNEX 2: NM B2B PREOPS TEST RESULTS FORM

Test	Subject	Outcome	Status
1.1	AUPServiceConfiguration	<airspace:AUPServiceConfigurationReply> <requestReceptionTime>2019-10-08 20:19:22</requestReceptionTime> <requestId>B2B_CUR:7012334</requestId> <sendTime>2019-10-08 20:19:22</sendTime> <status>OK</status> <data/> </airspace:AUPServiceConfigurationReply>	OK
1.2	AUPChainRetrievalRequest	<ns12:AUPChainRetrievalRequest> <endUserId>LARA_TEST_CLUSTER</endUserId> <sendTime>2019-10-08 20:19:23</sendTime> <amcIds>EBBRZAMC</amcIds> <chainDate>2019-10-08</chainDate> </ns12:AUPChainRetrievalRequest>	OK
1.3	AUPChainRetrievalReply	<airspace:AUPChainRetrievalReply> <requestReceptionTime>2019-10-08 20:19:23</requestReceptionTime> <requestId>B2B_CUR:7012337</requestId> <sendTime>2019-10-08 20:19:23</sendTime> <status>OK</status> <data/> </airspace:AUPChainRetrievalReply>	OK
2.1	AUPValidationReply	<airspace:AUPValidationReply> <requestReceptionTime>2019-10-09 08:10:20</requestReceptionTime> <requestId>B2B_CUR:7178966</requestId> <sendTime>2019-10-09 08:10:26</sendTime> <status>OK</status> <data/> </airspace:AUPValidationReply>	OK

3.1	AUPCreationRequest	`<ns12:AUPCreationRequest>`
		`<endUserId>LARA_TEST_CLUSTER</endUserId>`
		`<sendTime>2019-10-09 07:12:18</sendTime>`
		`<aup>`
		`<summary>`
		`<chainDate>2019-10-10</chainDate>`
		`<aupType>BASELINE</aup>`
		`<validityPeriod>`
		`<wef>2019-10-10 06:00</wef>`
		`<unt>2019-10-11 06:00</unt>`
		`</validityPeriod>`
		`<aupState>READY</aupState>`
		`<nilAUP>true</nilAUP>`
		`<remark>NIL AUP SENT BY LARA V3 1 0 10</remark>`
		`<note/>`
		`<expandedAUP>false</expandedAUP>`
		`</summary>`
		`</aup>`
		`</ns12:AUPCreationRequest>`
			OK

3.2	AUPCreationReply	`<airspace:AUPCreationReply>`
		`<requestReceptionTime>2019-10-09 07:12:19</requestReceptionTime>`
		`<requestId>B2B_CUR:7275908</requestId>`
		`<sendTime>2019-10-09 07:12:26</sendTime>`
		`<status>OK</status>`
		`<data>`
		`<aup>`
		`<summary>`
		`<id>D3829D5D001600002C2483E3</id>`
		`<chainDate>2019-10-10</chainDate>`
		`<amcId>EBBRZAMC</amcId>`
		`<aupType>BASELINE</aup>`
		`<validityPeriod>`
		`<wef>2019-10-10 06:00</wef>`
		`<unt>2019-10-11 06:00</unt>`
		`</validityPeriod>`
		`<aupState>READY</aupState>`
		`<nilAUP>true</nilAUP>`
		`<remark>NIL AUP SENT BY LARA V3 1 0 10</remark>`
			OK

```
            <note/>
            <expandedAUP>false</expandedAUP>
            <lastUpdate>
              <timestamp>2019-10-09 07:12:25</timestamp>
              <userId>unknown</userId>
              <airNavigationUnitId>EBBRZAMC</airNavigationUnitId>
            </lastUpdate>
          </summary>
          <aupManualEntries/>
          <aupComputedEntries/>
        </aup>
      </data>
    </airspace:AUPCreationReply>
```