



Standard Operating Procedure & Guidelines For NOCAS - Local Body Application Integration

January 2021



Table of Content		
S. No.	Items	Page No.
1	Pre-requisites for Integration with NOCAS	3
2	Data types are required from ULB end	3
3	Conditions applicable in NOCAS	4
4	Documents required from ULB end	4
5	Reference screen shots for NOCAS application	5
6	Fetching XML Data from Local Body Server to NOCAS	6
7	NOCAS Status for NOC application to Local Bodies	7
8	Reference screen shots for WSDL file format	9

**Pre-requisites for Integration with NOCAS**

1. Local Bodies are required to develop a single window interface in their existing application to capture the data required for NOCAS and save it in XML format.
2. Local Bodies are required to create a web service to share NOC applications using POST method with token key for authentication.
3. Local Bodies are required to finalize the agency name for Integration process which will be same in each application for that ULB.
4. Local Bodies are required to maintain application data and files at same location for In-Progress applications.
5. Local Bodies can send multiples applications for NOC using same xml file.
6. Local Bodies are required to maintain the unique id (reference id) for each application.

Following fields of data are required for processing of Application in NOCAS System.

Table 1: Data types are required from ULB end for NOC application			
Sr. No.	Fields	Data Length	Data Type
1	Authority Name	50	String
2	Unique Id (Reference ID)	10	String
3	Application Date	10	String
4	Application number	20	String
5	Applicant Name (First Name + Last Name)	50	String
6	Applicant Address	200	String
7	Applicant Contact Number	10	String
8	Applicant Email-Id	100	String
9	Owner Name	100	String
10	Owner Address (Communication Address)	200	String
11	Type of Structure (Building)	50	String
12	Purpose of Structure Options: <ul style="list-style-type: none">• Residential• Commercial• Residential/Commercial• Others	50	String
13	Site Address (Site Description–Site Name & No, Plot No.)	250	String
14	Site Address (City name)	100	String
15	Site Address (State name)	100	String
16	Size of Plot (sq.mtrs) *	9 (max 2 decimal places)	Double
Coordinates Details of Plot (WGS84 datum)			
17	Structure number	2	Integer
18	Latitude (N) (DD MM SS.s)		String
	DD	2	
	MM	2	
	SS.s	5 (max 2 decimal places)	
19	Longitude (E) (DD MM SS.s)		String
	DD	2	
	MM	2	
	SS.s	5 (max 2 decimal places)	
20	Site Elevation (AMSL) (mtr)	7 (max 2 decimal places)	Double



21	Building Height (AGL) (mtr)	6 (max 2 decimal places)	Double
22	Does the site lies within the airport premises/Within the land belonging to Airport Operator (Yes/No) *	3	String
22.1	If Yes, have you obtained permission from Airport Operator (Yes/No) *	3	String

* Conditions applicable in NOCAS for case processing are mentioned below.

Condition for Sr. No 16 mentioned in above table 1:

- if size of plot is >300 sq. mtrs then minimum 4 coordinates and maximum 10 coordinates are required.
- If size of plot is <300 sq. mtrs then minimum 1 coordinate and maximum 10 coordinates are required.

Condition for Sr. No. 22 and 22.1 mentioned in above table 1:

- Does the site lies within the airport premises/Within the land belonging to Airport Operator (Yes /No)?
- If Yes, uploading of document no. 5 (Permission from airport operator) is mandatory, as site lies with in airport premises/Land belonging to Airport Operator.

Table 2: Documents required from ULB end for NOC application		
S. No	Files Required	File Type
1	Site Coordinates Certificate (WGS84 datum)	File size should be less than or equal to 500 Kb in pdf format only.
2	Site Elevation Certificate	
3	Undertaking on Form 1A (In case application is not filed by Owner) Reference: https://nocas2.aai.aero/nocas/AAI_Links/UNDERTAKING1A.pdf	
4	Authorization Letter (In case application is not filed by Owner) https://nocas2.aai.aero/nocas/AAI_Links/UNDERTAKING1A.pdf	
5	Permission from Airport Operator (only if sites within Airport premise/within the land belonging to Airport Operator)	

Note: If site coordinates and site elevation are in single certificate, then only one document to be uploaded.

Reference: The surveyed Site Coordinates Certificate and Site Elevation Certificate in prescribed format (as available on NOCAS website) may be obtained from Government departments like CPWD/State PWD or Govt. approved Department/Agencies authorized for the purpose/ Railways/MES. Aerodrome Operators for their respective cities {e.g. Delhi International Airport Limited (DIAL), Mumbai International Airport Limited (MIAL), Bengaluru International Airport Limited, and Hyderabad International Airport Limited}, Urban Local Body authorized/licensed Surveyors/Architects/Engineers licensed/authorized by ULB or AAI Empaneled Surveyors may also issue certificate.

https://nocas2.aai.aero/nocas/AAI_Links/Format_of_Site_Elevation_and_Coordinates_Certificate.pdf



Reference screen shots for NOKAS application

NOC Applicant Details

Name of Applicant*

Address of Applicant*

Mobile No*

Email Id*

Name of Owner/Owners *

Address of Communication *

Structure Type

Type of Structure *

Uses/Purpose of Structure *

Building

Select Construction Type

Select Construction Type

Residential

Commercial

Residential\Commercial

Others

Site Details

Site Description-Site Name & No, Plot No. (Max 500 Characters) *

Size Of Plot(sq.mtrs) *

State*

City*

Area name – Taluk / Village / Town Name *

Select State

Select City



Enter NOC Structure Details (Coordinates must be in WGS84 datum)

LATITUDE (N)	LONGITUDE (E)	SITE ELEVATION (AMSL)(MTR)	BUILDING HEIGHT (AGL)(MTR)	
<input type="text" value="DD"/> <input type="text" value="MM"/> <input type="text" value="SS.s"/>	<input type="text" value="DD"/> <input type="text" value="MM"/> <input type="text" value="SS.s"/>	<input type="text"/>	<input type="text"/>	
Max Site Elevation (AMSL)(mtr)				
<input type="text" value="DD"/> <input type="text" value="MM"/> <input type="text" value="SS.s"/>	<input type="text" value="DD"/> <input type="text" value="MM"/> <input type="text" value="SS.s"/>	<input type="text"/>	<input type="text"/>	<input type="button" value="Delete"/>
<input type="text" value="DD"/> <input type="text" value="MM"/> <input type="text" value="SS.s"/>	<input type="text" value="DD"/> <input type="text" value="MM"/> <input type="text" value="SS.s"/>	<input type="text"/>	<input type="text"/>	<input type="button" value="Delete"/>
				<input type="button" value="Add More"/> <input type="button" value="View on Map"/>

Do the above Coordinates plotted on the map correlate to your site/plot ?

☐ Yes ☒ No

Does the site lies within the airport premises/Within the land belonging to Airport Operator

☒ Yes ☐ No

Have you obtained permission from Airport Operator

☒ Yes ☐ No

File size should be less than or equal to 500 KB in pdf only

Site Coordinates Certificate (WGS84 datum)/Site Elevation Certificate*	<input type="button" value="Choose File"/> No file chosen	<input type="button" value="Upload"/>
Undertaking on Form 1A/Authorization Letter (In case application is not file by Owner/Lessee)*	<input type="button" value="Choose File"/> No file chosen	<input type="button" value="Upload"/>
Permission from Airport Operator (only for sites within Airport premises) *	<input type="button" value="Choose File"/> No file chosen	<input type="button" value="Upload"/>

Fetching XML Data from Local Body Server to NOCAS

XML format will be shared by Local Body to AAI with the following data. Sample given for MCGM-NOCAS integration:

```
<?xml version="1.0" encoding="utf-8" standalone="yes" ?>
<MCGMDETAILS>
<TOAAI>
<ApplicationData>
<AUTHORITY>MCGM</AUTHORITY>
<UNIQUEID></UNIQUEID>
<APPLICATIONDATE> MM/DD/YYYY </APPLICATIONDATE>
<APPLICANTNAME> </APPLICANTNAME>
<APPLICANTADDRESS></APPLICANTADDRESS>
<APPLICANTNO>9999999999</APPLICANTNO>
<APPLICANTEMAIL></APPLICANTEMAIL>
```



```
<APPLICATIONNO></APPLICATIONNO>
<OWNERNAME></OWNERNAME>
<OWNERADDRESS></OWNERADDRESS>
<STRUCTURETYPE>Building</STRUCTURETYPE>
<STRUCTUREPURPOSE> </STRUCTUREPURPOSE>
<SITEADDRESS></SITEADDRESS>
<SITECITY></SITECITY>
<SITESTATE></SITESTATE>
<PLOTSIZE></PLOTSIZE>
<ISINAIROTPREMISES></ISINAIROTPREMISES>
<PERMISSIONTAKEN></PERMISSIONTAKEN>
</ApplicationData>
<SiteDetails>
<Coordinates>
<LATITUDE>23 45 12.2</LATITUDE>
<LONGITUDE>77 23 26.5</LONGITUDE>
<SITEELEVATION>4</SITEELEVATION>
<BUILDINGHEIGHT>14.5</BUILDINGHEIGHT>
<STRUCTURENO>1</STRUCTURENO>
</Coordinates>
<Coordinates>
<LATITUDE>23 45 13.2</LATITUDE>
<LONGITUDE>77 23 26.5</LONGITUDE>
<SITEELEVATION>4</SITEELEVATION>
<BUILDINGHEIGHT>14.5</BUILDINGHEIGHT>
<STRUCTURENO>2</STRUCTURENO>
</Coordinates>
</SiteDetails>
<FILES>
<UNDERTAKING1A>ULB_596_UNDERTAKING1A.pdf</UNDERTAKING1A>
<SITEELEVATION>ULB_596_SiteElevationCertificate.pdf</SITEELEVATION>
<SITECOORDINATES>ULB_596_SiteCoordinatesCertificate.pdf</SITECOORDINATES>
<AUTHORIZATION>ULB_596_AuthorizationLetter.pdf</AUTHORIZATION>
<PERMISSION>ULB_596_PermissionLetter.pdf</PERMISSION>
</FILES>
</TOAAI>
</MCGMDETAILS>
```

- Local Bodies are required to replace **<MCGMDETAILS>** node as per their authority name.
- Local Bodies are required to repeat **<TOAAI>** node for submitting more than one application.
- Local Bodies are required to repeat **<Coordinates>** node for submitting more than one coordinate.
- Local Bodies are required to create all above nodes in xml file.

NOCAS Status for NOC application to Local Bodies:

Status which AAI will be sending is as follows:

1. **AUTO SETTLED:** Every case is checked for Auto Settled criteria and if it satisfies the criteria then a letter will be generated.
2. **INPROCESS:** The cases which are not Auto Settled then the cases will be available to AAI users for processing.
3. **ISSUED:** After processing the case in NOCAS the case will be ISSUED and a letter will be generated.



4. **VERIFICATIONREJECTED:** The case is verification rejected at the time of document verification.
5. **REJECTED:** The case is rejected after processing of application.

Local bodies will also receive file/letter in case of following STATUS.

- Auto-Settled Status: auto-settled NOC letter (.pdf) with PTE.
- Issued Status: ISSUED NOC letter(.pdf) with PTE.
- Rejected Status: Rejected letter(.pdf) with remark.

Following XML will be used to Update NOC application status with Local Bodies.

```
<AAI>
<FROMAAI>
<UNIQUEID>596</UNIQUEID>
<NOCASID>SNCR/WEST/B/010216/12345</NOCASID>
<STATUS>INPROCESS</STATUS>
<PTE></PTE>
<ISSUEDATE>MM/DD/YYYY</ISSUEDATE>
<AirportName>NaviMumbai</AirportName>
<REMARK />
<FileName/>
</FROMAAI>
</AAI>
```

- Local Bodies are required to consume AAI provided SOAP web service with POST method to get applications status.
- Local Bodies will get xml and pdf files in byte array with the use of proper authority name and token key.
 - **Method:** GetFilesFromRemoteMachine
 - **Return type:** FileTransferRequest[] (FileName: String, Content: Byte Array)
- Local Bodies are required to maintain application data and files at same location for In-Progress applications to received application status.
- NOCAS will generate status file (AAI.xml) based on request id (UNIQUEID) provided by local bodies in .xml file.



Reference screen shots for WSDL file format

```
<?xml version='1.0' encoding='utf-8' ?>
<wsdl:definitions xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/" xmlns:wsx="http://schemas.xmlsoap.org/ws/2004/09/mex" xmlns:i0="https://...../" xmlns:
open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd" xmlns:wsa10="http://www.w3.org/2005/08/addressing" xmlns:wsp="http://schemas.xmlsoap.org/ws/20
xmlns:wsap="http://schemas.xmlsoap.org/ws/2004/08/addressing/policy" xmlns:msc="http://schemas.microsoft.com/ws/2005/12/wsdl/contract"
xmlns:soap12="http://schemas.xmlsoap.org/wsdl/soap12/" xmlns:wsa="http://schemas.xmlsoap.org/ws/2004/08/addressing" xmlns:wsam="http://www.w3.org/2007/05/addresses
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:tns="http://tempuri.org/" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" xmlns:wsaw="http://www.w3.org/20
xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/" name="TransferService" targetNamespace="http://tempuri.org/">
  <wsp:Policy wsu:Id="BasicHttpBinding_ITransferService_policy">
    <wsp:ExactlyOne>
      <wsp:All>
        <sp:TransportBinding xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
          <wsp:Policy>
            <sp:TransportToken>
              <wsp:Policy>
                <sp:HttpsToken RequireClientCertificate="false"/>
              </wsp:Policy>
            </sp:TransportToken>
            <sp:AlgorithmSuite>
              <wsp:Policy>
                <sp:Basic256/>
              </wsp:Policy>
            </sp:AlgorithmSuite>
            <sp:Layout>
              <wsp:Policy>
                <sp:Strict/>
              </wsp:Policy>
            </sp:Layout>
          </sp:TransportBinding>
        </wsp:All>
      </wsp:ExactlyOne>
    </wsp:Policy>
  </>

  <wsdl:import namespace="https://...../" location="https://...../TransferService.svc?wsdl=wsdl0"/>
  <wsdl:types/>
  <wsdl:binding name="BasicHttpBinding_ITransferService" type="i0:ITransferService">
    <wsp:PolicyReference URI="#BasicHttpBinding_ITransferService_policy"/>
    <soap:binding transport="http://schemas.xmlsoap.org/soap/http"/>
    <wsdl:operation name="DownloadFile">
      <soap:operation soapAction="https://...../ITransferService/DownloadFile" style="document"/>
      <wsdl:input name="DownloadRequest">
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output name="RemoteFileInfo">
        <soap:header message="i0:RemoteFileInfo_Headers" part="FileName" use="literal"/>
        <soap:header message="i0:RemoteFileInfo_Headers" part="Length" use="literal"/>
        <soap:body use="literal"/>
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="UploadFile">
      <soap:operation soapAction="https://...../ITransferService/UploadFile" style="document"/>
      <wsdl:input name="RemoteFileInfo">
        <soap:header message="i0:RemoteFileInfo_Headers" part="FileName" use="literal"/>
        <soap:header message="i0:RemoteFileInfo_Headers" part="Length" use="literal"/>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="Put">
      <soap:operation soapAction="https://...../ITransferService/Put" style="document"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
    </wsdl:operation>
  </>
</wsdl:definitions>
```



```
▼<wsdl:operation name="GetAllFiles">
  <soap:operation soapAction="https://...../ITransferService/GetAllFiles" style="document"/>
  ▼<wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  ▼<wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
</wsdl:operation>
▼<wsdl:operation name="GetFilesFromRemoteMachine">
  <soap:operation soapAction="https://...../ITransferService/GetFilesFromRemoteMachine" style="document"/>
  ▼<wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  ▼<wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
</wsdl:operation>
</wsdl:binding>
▼<wsdl:service name="TransferService">
  ▼<wsdl:port name="BasicHttpBinding_ITransferService" binding="tns:BasicHttpBinding_ITransferService">
    <soap:address location="https://...../TransferService.svc"/>
  </wsdl:port>
</wsdl:service>
</wsdl:definitions>
```