IDS AirNav
an enav group company

CRONOS OPERATOR

Unit 3 – NOTAM Module

enav group

CRONOS Training

Unit 1

CRONOS Introduction

- General CRONOS introduction
- System overview
- Graphical User interface overview

Unit 2

CRONOS Administration

- Settings
  - Security
  - System Option
  - Location
  - NOTAM Option
  - FPL Option
  - OPMET Option
  - PIB Option
  - Security
  - Distribution
  - Network
  - Printer
  - Database
  - Aircraft
  - Predefined Flight Routes
  - Auditing
  - B2B Subscriptions

Unit 3

CRONOS NOTAM Module

- Introduction
- SDO Feature
- NOTAM
- NOTAM Checklist
- NOTAM Proposal
- SNOWTAM Creation
- SNOWTAM Proposal workflow
- ASHTAM
- Digital NOTAM

Unit 4

CRONOS FPL Module

- FPL creation
- FPL validation
- FPL distribution
- Traffic List
- FPL Proposal workflow
- RPL
- ATS messages
- NOFPL Traffic
- ATS proposal workflow

Unit 5

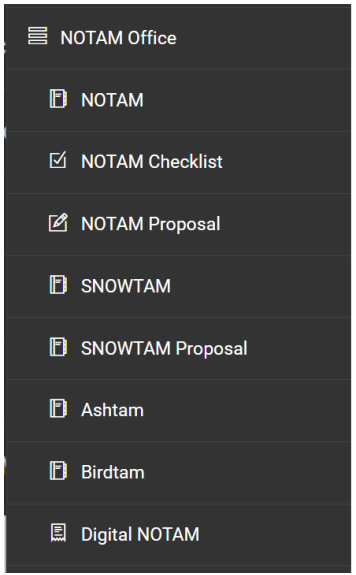
CRONOS ATN, MET and Briefing Module

- ATN Messages
- MET Module
- Briefing Module
- Publications
- Post-flight report workflow
- SDO Browse

NOTAM OFFICE

NOTAM Creation and Query, NOTAM Checklist, NOTAM Proposals, SNOWTAM, SNOWTAM Proposal and ASHTAM

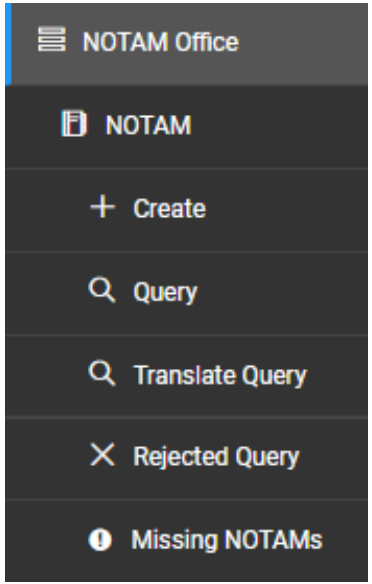
NOTAM OFFICE OVERVIEW



8 functions logically separated

- **NOTAM**: Create, Query, Translate Query, Reject Query, Missing NOTAMs
- **NOTAM Checklist:** Create Standard, Create Custom, Query
- **NOTAM Proposal**: Create, Import from PLX, Query
- **SNOWTAM**: Create, Query
- **SNOWTAM Proposal**: Create, Query
- **ASHTAM**: Create, Query
- **BIRDTAM**: Create, Query
- **Digital NOTAM**: Create, Query

NOTAM OFFICE



- **Create**: used for validation, creation, and submission of NOTAM (N,R,C)
- **Query**: used for NOTAM consultation
- **Translate query**: used to query national NOTAM and creation of related “ENG” NOTAM for International distribution
- **Rejected query**: used to fix all those NOTAM messages that need a manual intervention
- **Missing NOTAMs**: used to verify the completeness of the NOTAM datastore for all NOF, Series, Years, and eventually create RQN messages

NOTAM CREATE

NOTAM Create page provides Users a display window to compose, validate, and submit NOTAM messages without passing through any proposal approval process.

Before the submission, there is possibility to validate the message.

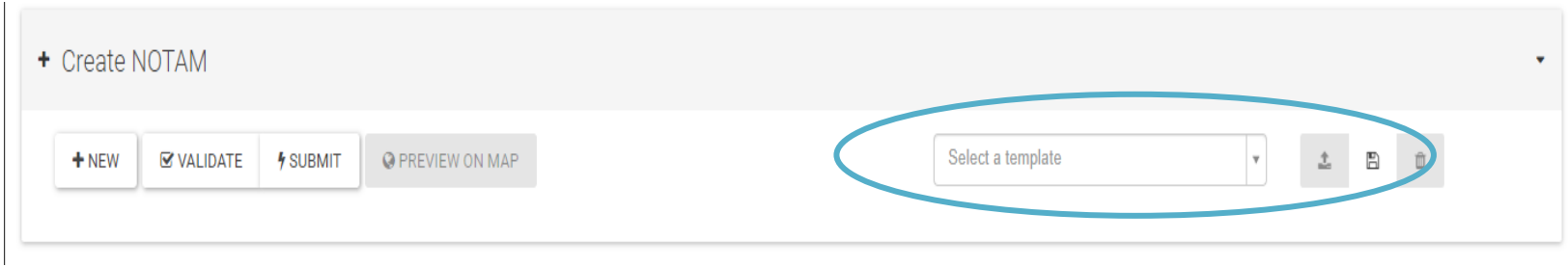
Before submission of the composed message, it is possible to save it as a NOTAM Template, for future re-use.

Creation is assisted with an automated fill-up mechanism (i.e. selection of Item A fills up also coordinates, vertical levels, radius, selection of Q-Code fills up Traffic, Scope, Purpose).

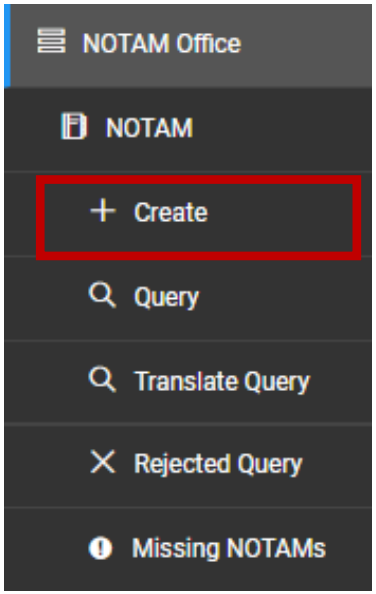
During the creation the «Show on Map» allows preview of the area of influence on map

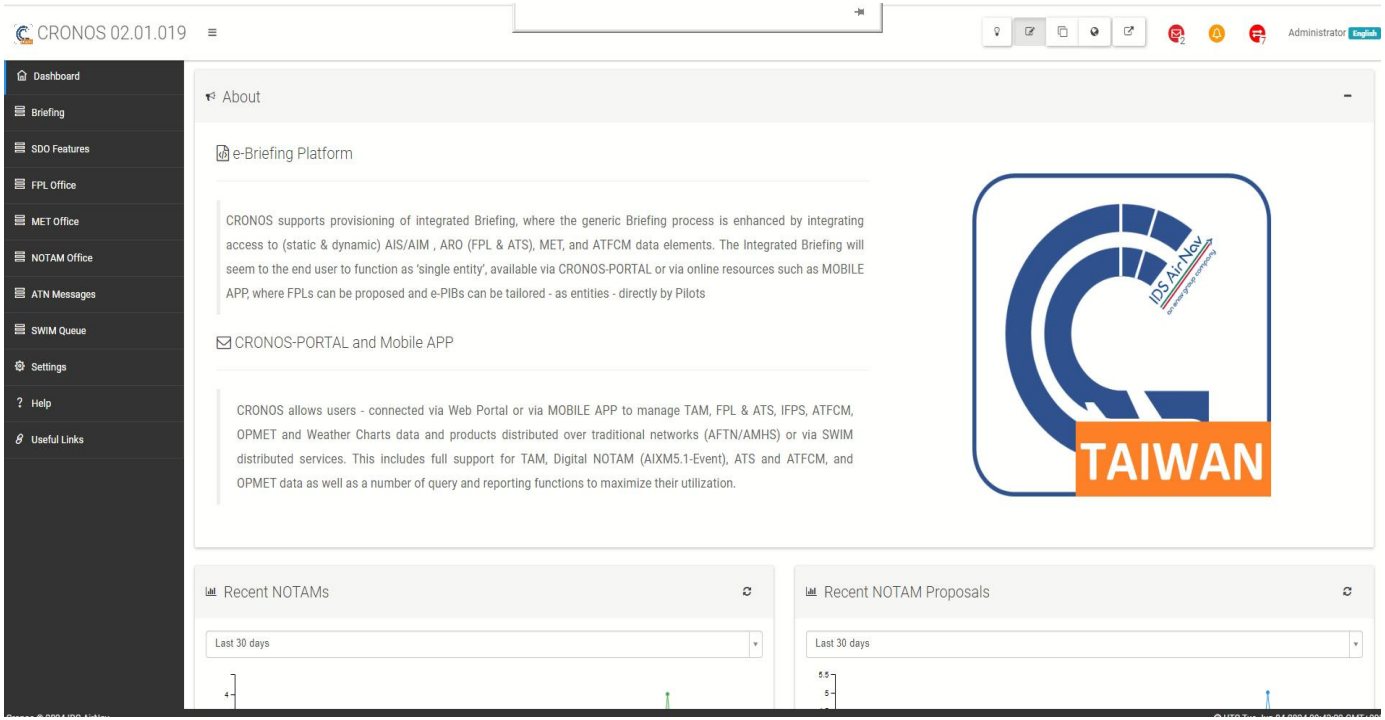
NOTAM TEMPLATE

NOTAM Template field provides Users the possibility to save a NOTAM template or update an exiting one.



NOTAMN


NOTAM Office
NOTAM
Create
Query
Translate Query
Rejected Query
Missing NOTAMs


CRONOS 02.01.019
Administrator
English
Dashboard
Briefing
SDO Features
FPL Office
MET Office
NOTAM Office
ATN Messages
SWIM Queue
Settings
Help
Useful Links
About
e-Briefing Platform
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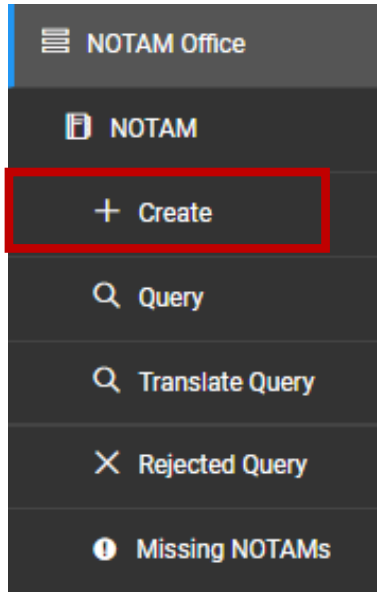
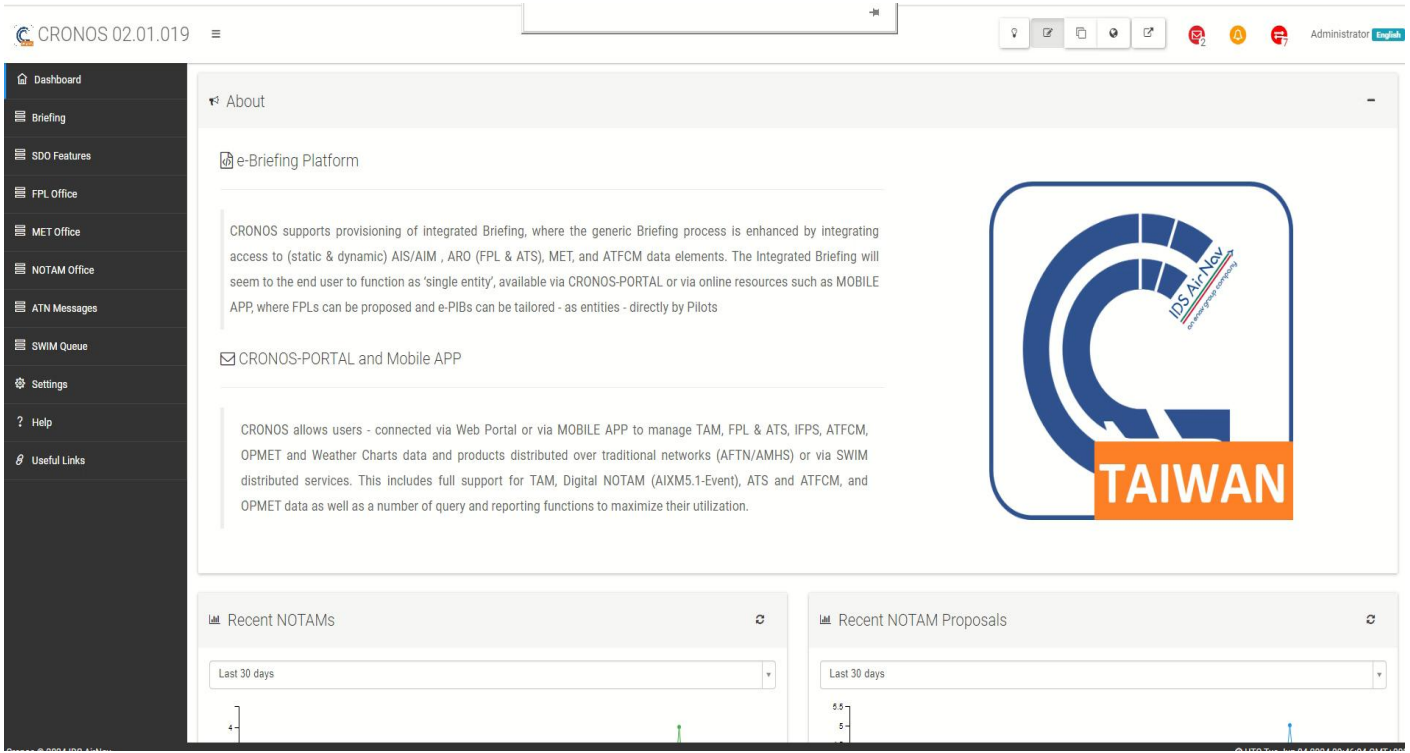
IDS AirNav
TAIWAN
Recent NOTAMs
Last 30 days
Recent NOTAM Proposals
Last 30 days

NOTAMR


NOTAM Office
NOTAM
Create
Query
Translate Query
Rejected Query
Missing NOTAMs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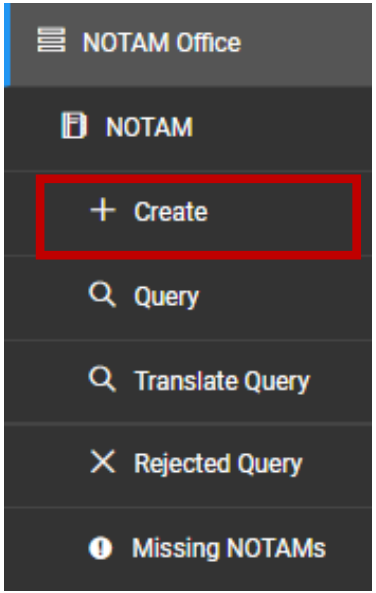
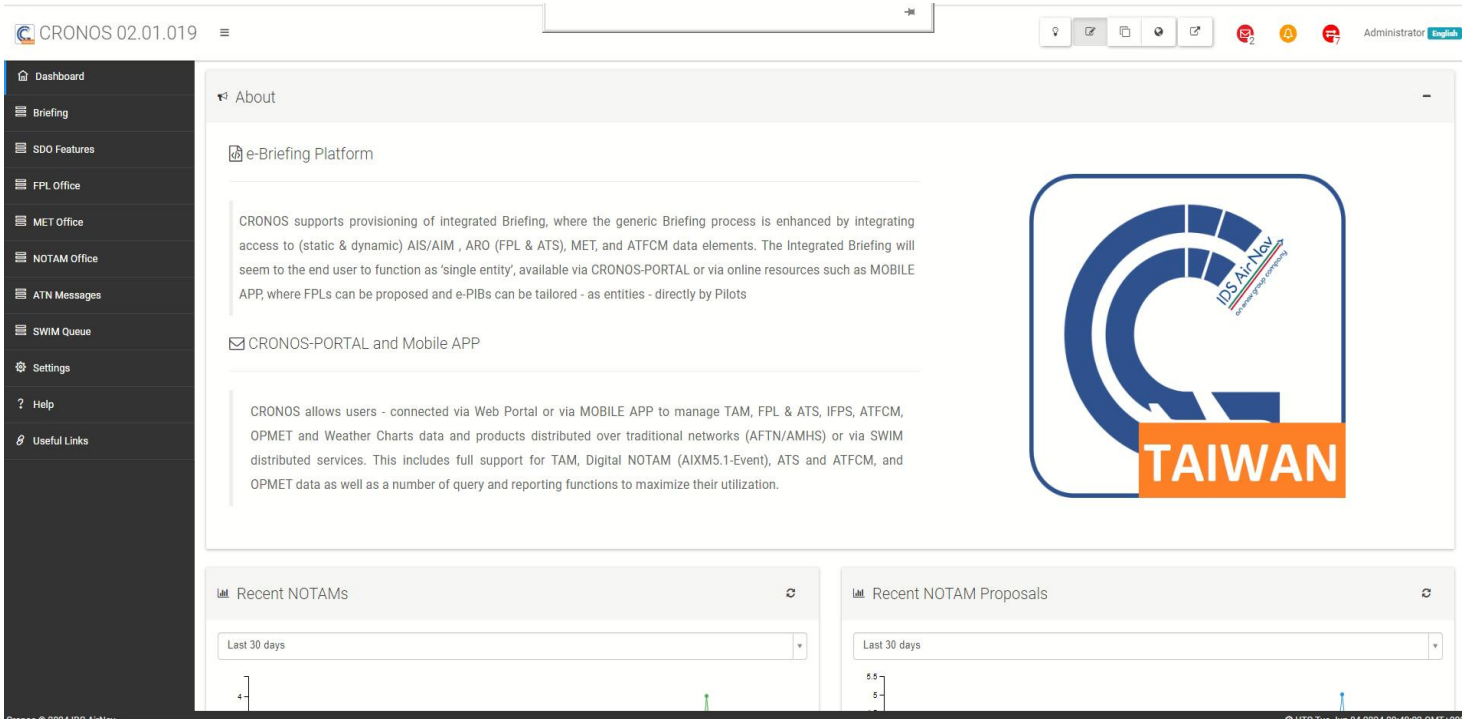
NOTAMC


NOTAM Office
NOTAM
Create
Query
Translate Query
Rejected Query
Missing NOTAMs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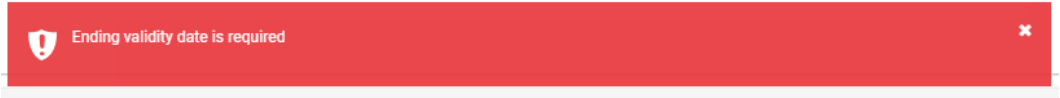
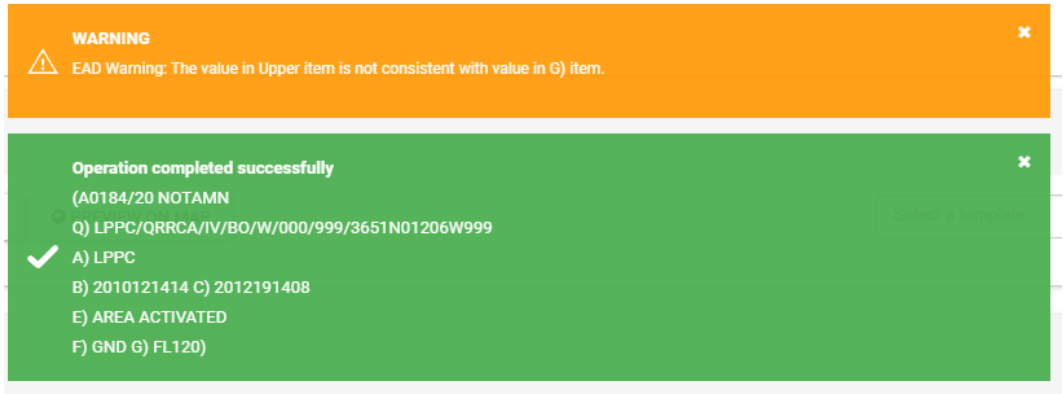
NOTAM VALIDATION

The internal Cronos validation determine the acceptance or automatic rejection of incoming and outgoing message. The validation rules are set by system administrators for each NOF (Settings > NOTAM Options > NOTAM Validation Config).

Rejected outgoing NOTAM messages will not be sent and red popup is displayed in the creation page.

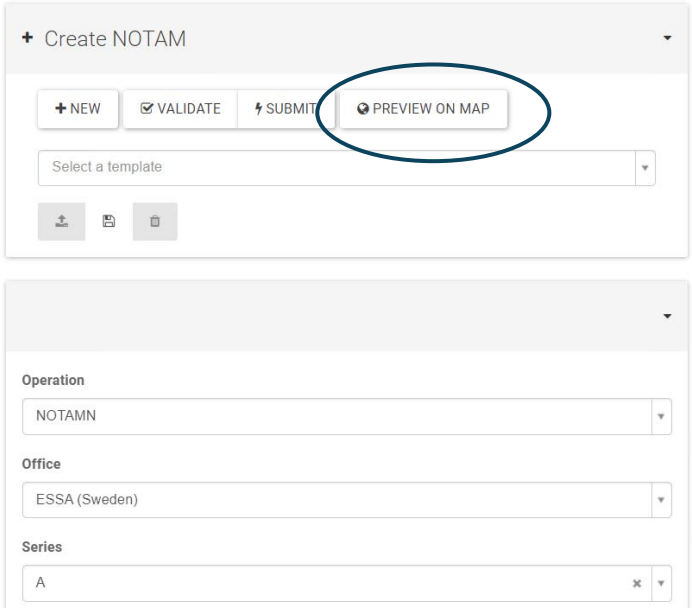


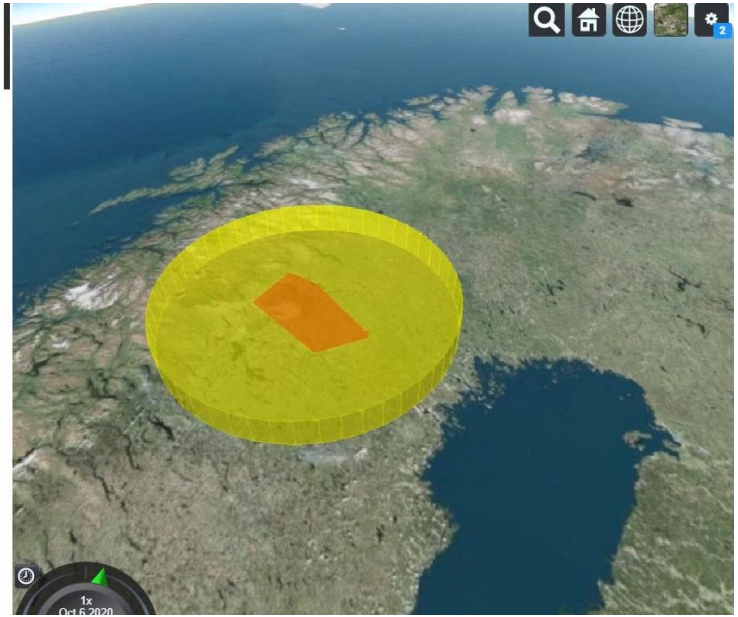
If EAD distribution is active for a NOTAM series, the validation for that series is done by EAD.



PREVIEW ON MAP OF A NOTAM

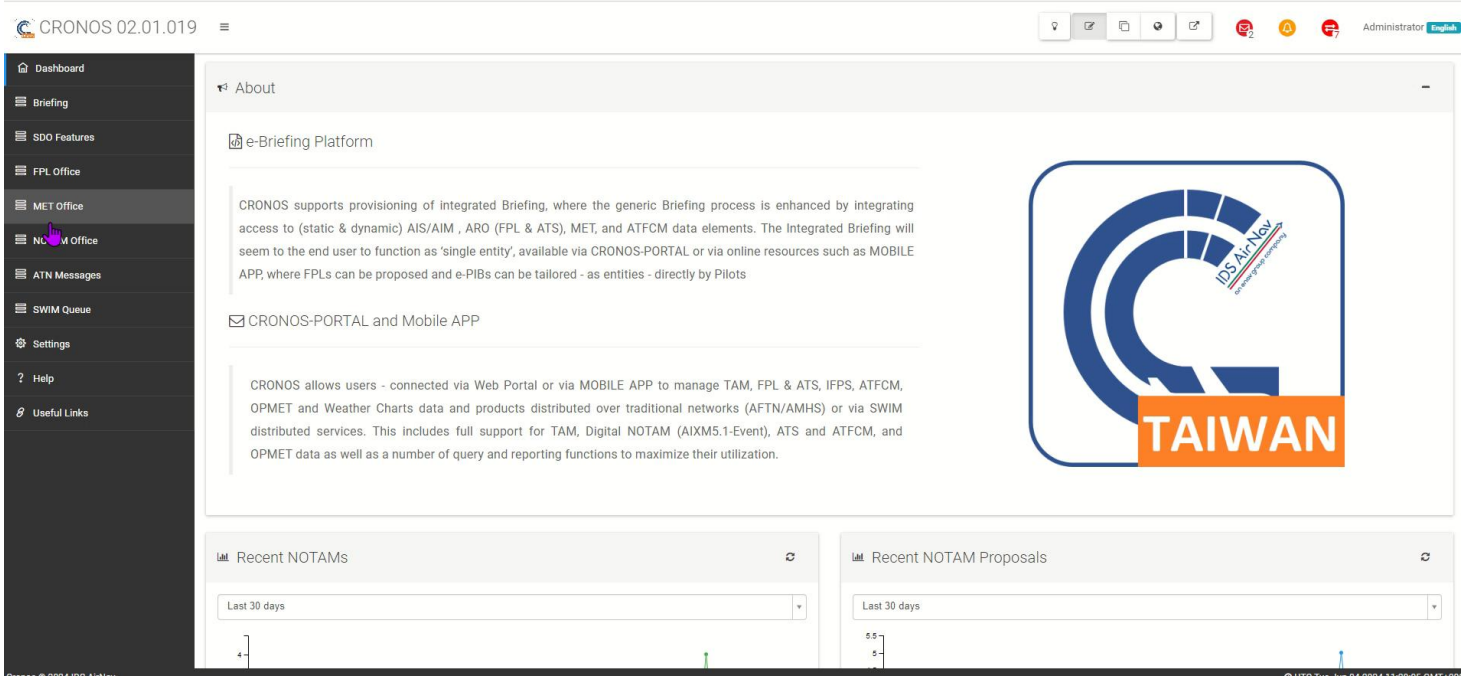
This functionality allow to see the NOTAM on Map prior submission



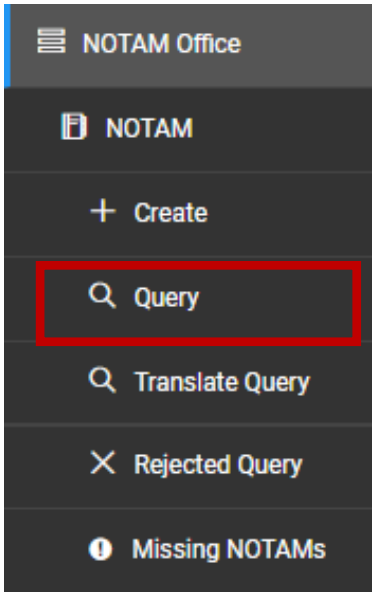


SDO LINKAGE

During NOTAM Creation CRONOS allows to create a link with a Static Data Operations object, that is also used for standad text.



NOTAM QUERY



NOTAM Query page provides Users an interactive way to search, filter, sort NOTAM messages

Default Query filter is set to

- Status = 'Valid'
- NOF = <*NOF office the accounted User belongs to*>

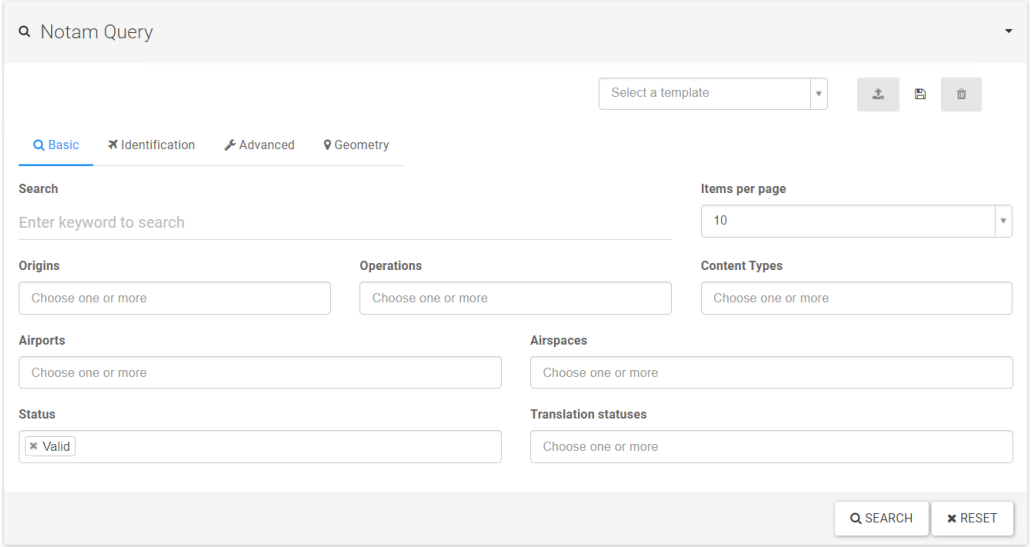
The Query filter conditions are organized in four tabs

- *BASIC*
- *IDENTIFICATION*
- *ADVANCED*
- *GEOMETRY*

NOTAM QUERY

NOTAM Query BASIC tab includes:

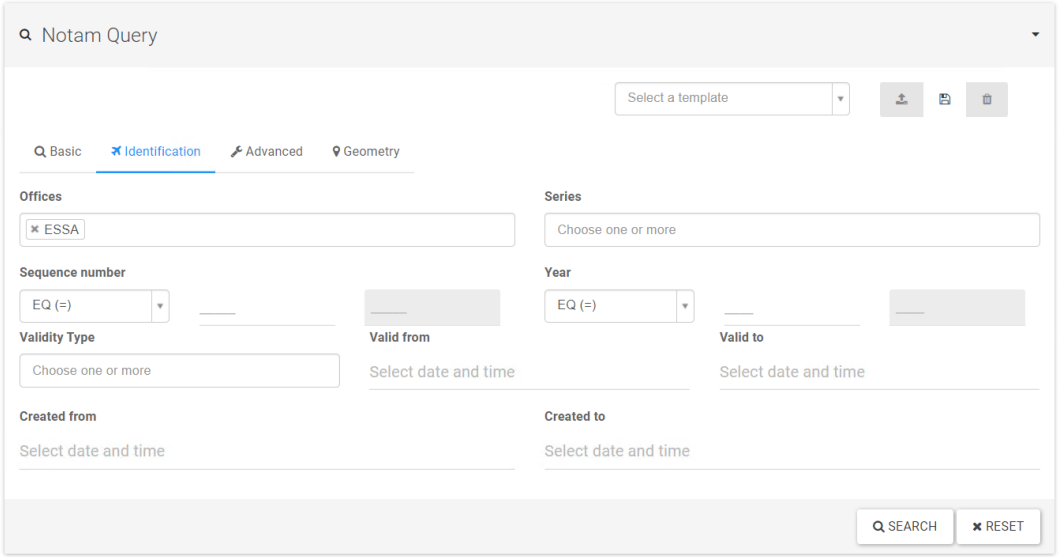
- GENERIC TEXT SEARCH
- ORIGIN: foreign, national, international, military
- OPERATIONS: NOTAM N, NOTAM R, NOTAM C
- CONTENT: Checklist, Other
- AIRPORTS: list of 4-letter ICAO Location Indicators
- AIRSPACE: list of 4-letter ICAO Location Indicators
- STATUS: Active, Replaced, Canceled, Expired
- TRANSLATION STATUS: Not Applicable, Pending, Translated



NOTAM QUERY

NOTAM Query IDENTIFICATION tab includes:

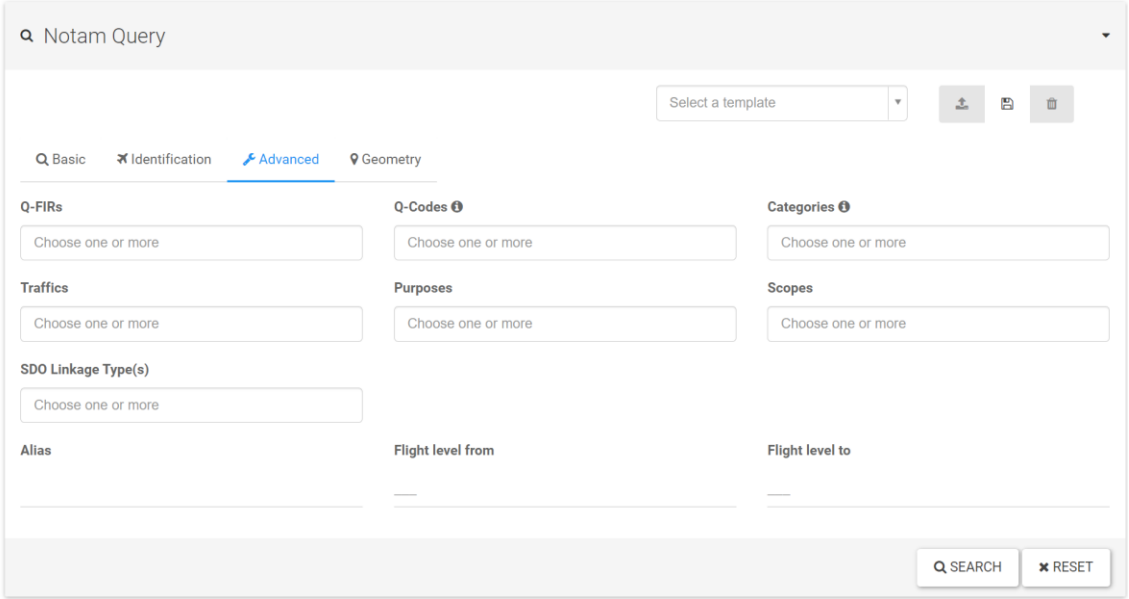
- NOTAM Office (s)
- SERIES
- Sequence NUMBER
- YEAR
- VALIDITY TYPE: PERM, EST
- VALIDITY DATE (From – To)
- CREATED DATE (From – To)



NOTAM QUERY

NOTAM Query ADVANCED tab includes:

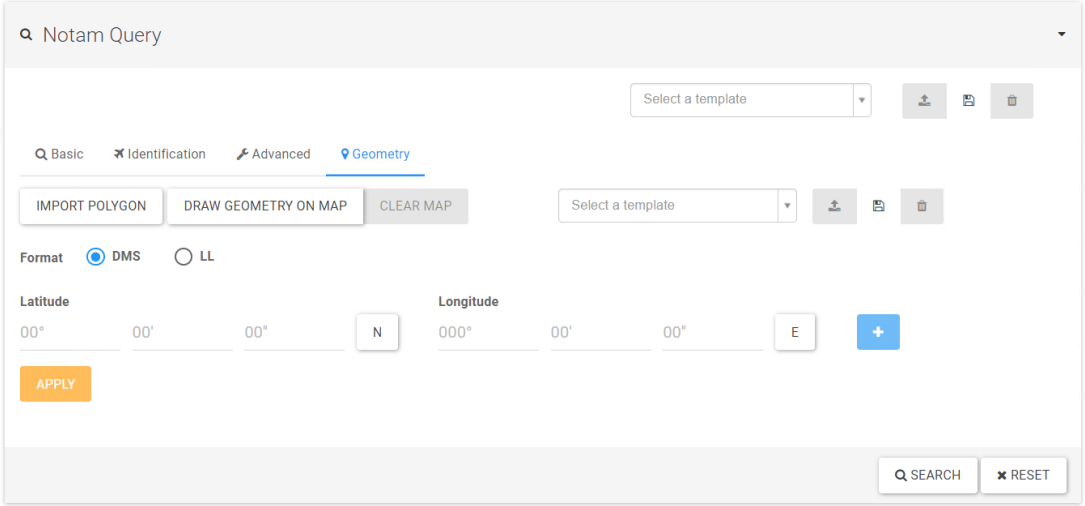
- Q-FIR (s)
- Q-CODES
- Q-CODE CATEGORIES
- TRAFFIC, SCOPE, PURPOSE
- SDO LINKAGE TYPE
- ALIAS
- FLIGHT LEVEL (From – To)



NOTAM QUERY

NOTAM Query GEOMETRY tab includes:

- (List of) POINTS on MAP
- (List of) POINTS on TEXTUAL PANEL



NOTAM QUERY

Search results

Auto refresh

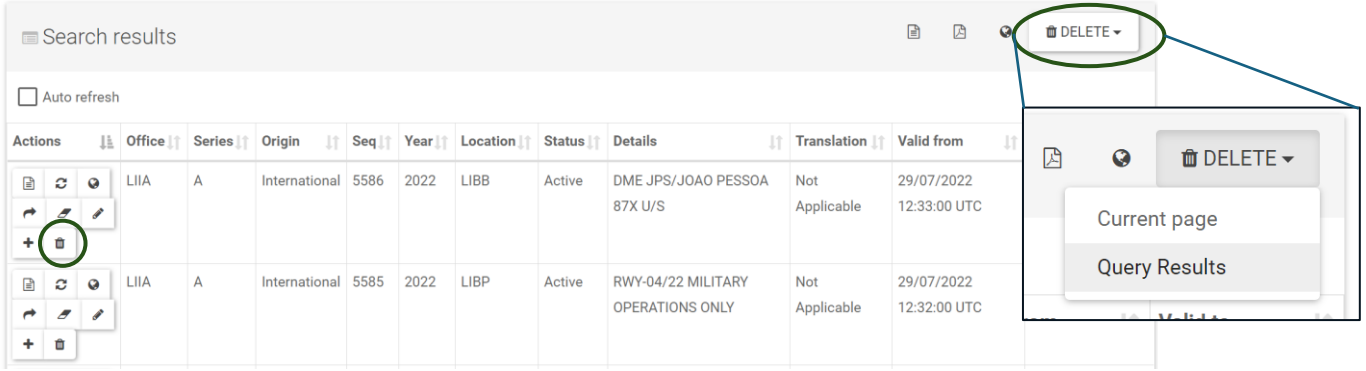
Actions	Office	Series	Origin	Seq	Year	Location	Status	Details	Translation
	ESSA	A	International	0085	2020	ESAA	Active	CHECKLIST YEAR=2019 0001 0003 0006 0007 0008 0009 0011 YEAR=2020 0075 0080 0081 0083 0084 LATEST AIS...	Not Applicable
	ESSA	A	International	0084	2020	ESSA	Active	RESTRICTED AREA ESR16A KUNGSANGEN RESTRICTED AREA ESR16B KUNGSANGEN RESTRICTED AREA ESR16C KUNGSANGE...	Not Applicable

In the actions column, by means of buttons, the following functionalities are available:

- Show NOTAM Details
- Resend NOTAM;
- Show NOTAM ON MAP (Based on Q-Line)/ show NOTAM ON MAP WITH ACCURATE GEOMETRY (based on SDO-Linkage);
- Register publication date;
- Cancel NOTAM, cancel proposal;
- Replace NOTAM, replace proposal;
- Create new NOTAM from this.

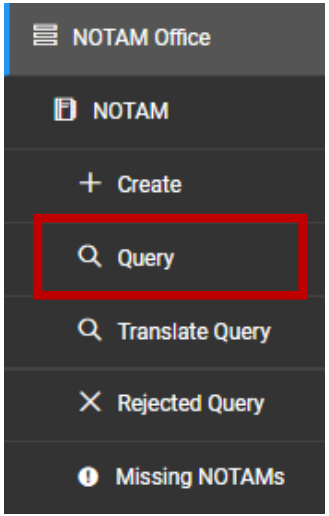
NOTAM DELETION

If the user has specific permission, from NOTAM Query physical deletion of NOTAMs can be performed.



Physical deletion is permanent deletion from CRONOS database.

NOTAM QUERY


NOTAM Office
NOTAM
Create
Query
Translate Query
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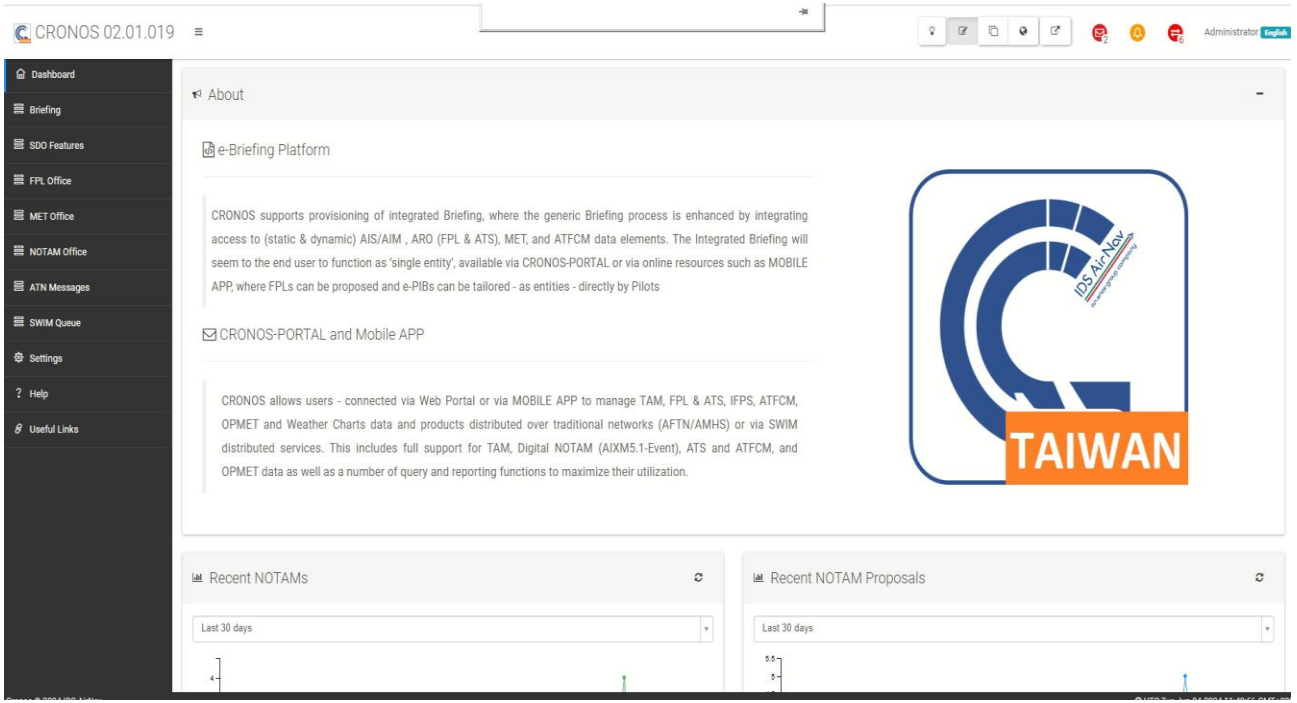
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NOTAM TRANSLATE

NOTAM Translate Query provides Users a display window to query all those NOTAM messages that have been recognized as National NOTAM

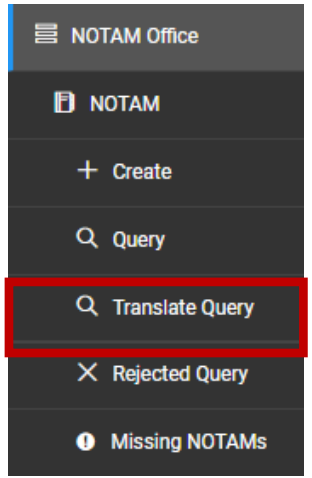
A part of these National NOTAM are eligible for international distribution

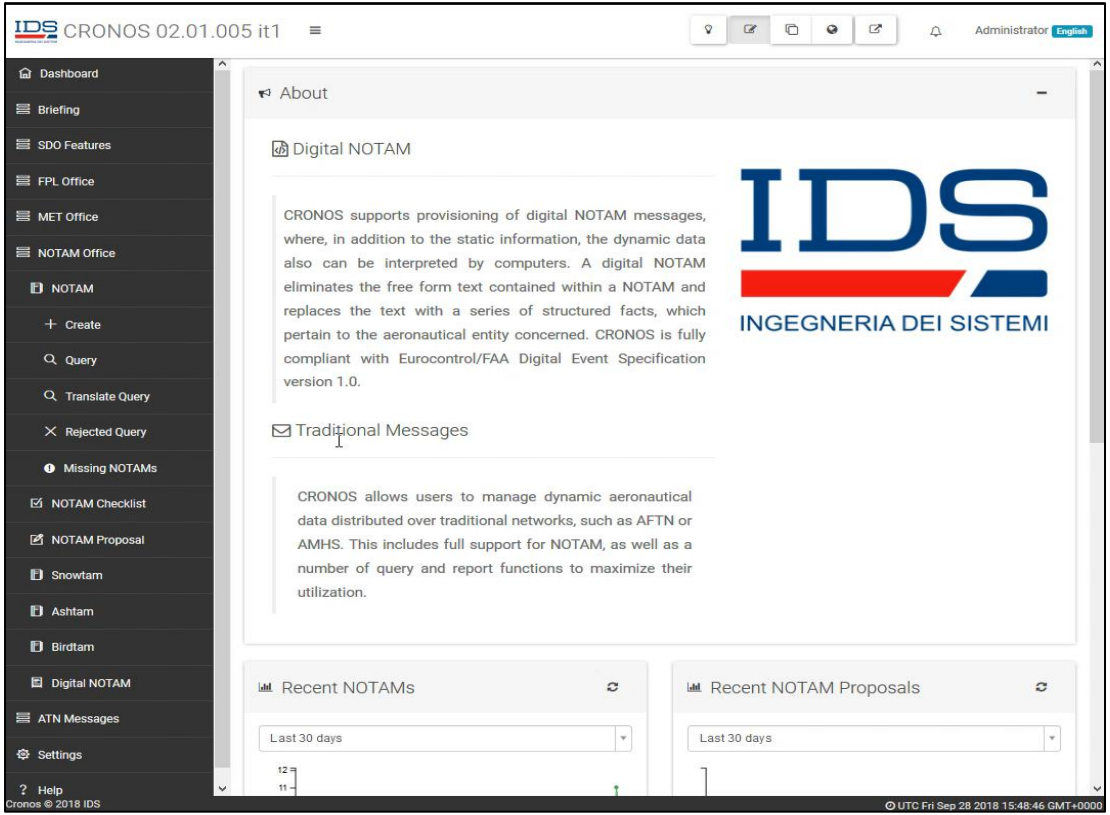
IDS CRONOS provides the Translate Query function to query National NOTAM, select it and translate automatically into International Language with the related international series recognized

Different Filter criteria are available – Refer to NOTAM Query sections for details

A link is generated to grant traceability between NTL & INTL NOTAM, when created from Translate Query

NOTAM TRANSLATE



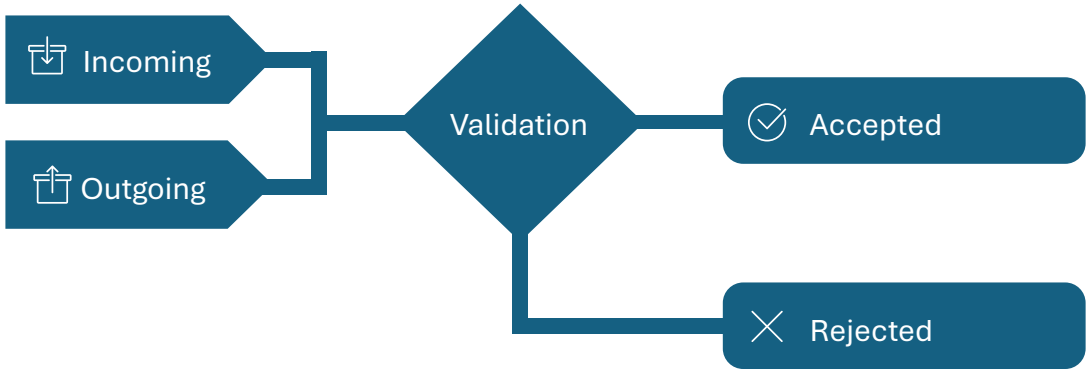


NOTAM REJECTED QUERY

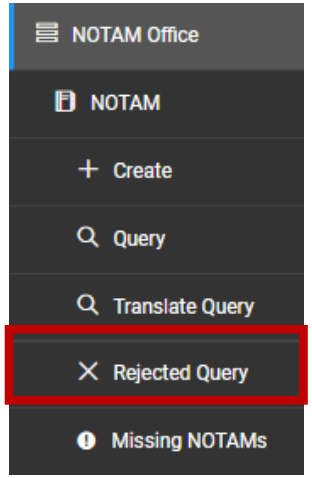
NOTAM Rejected Query provides Users a display window to query all those incoming NOTAM messages that have been automatically rejected by CRONOS because they haven't passed the internal validation process and that needs a manual intervention.

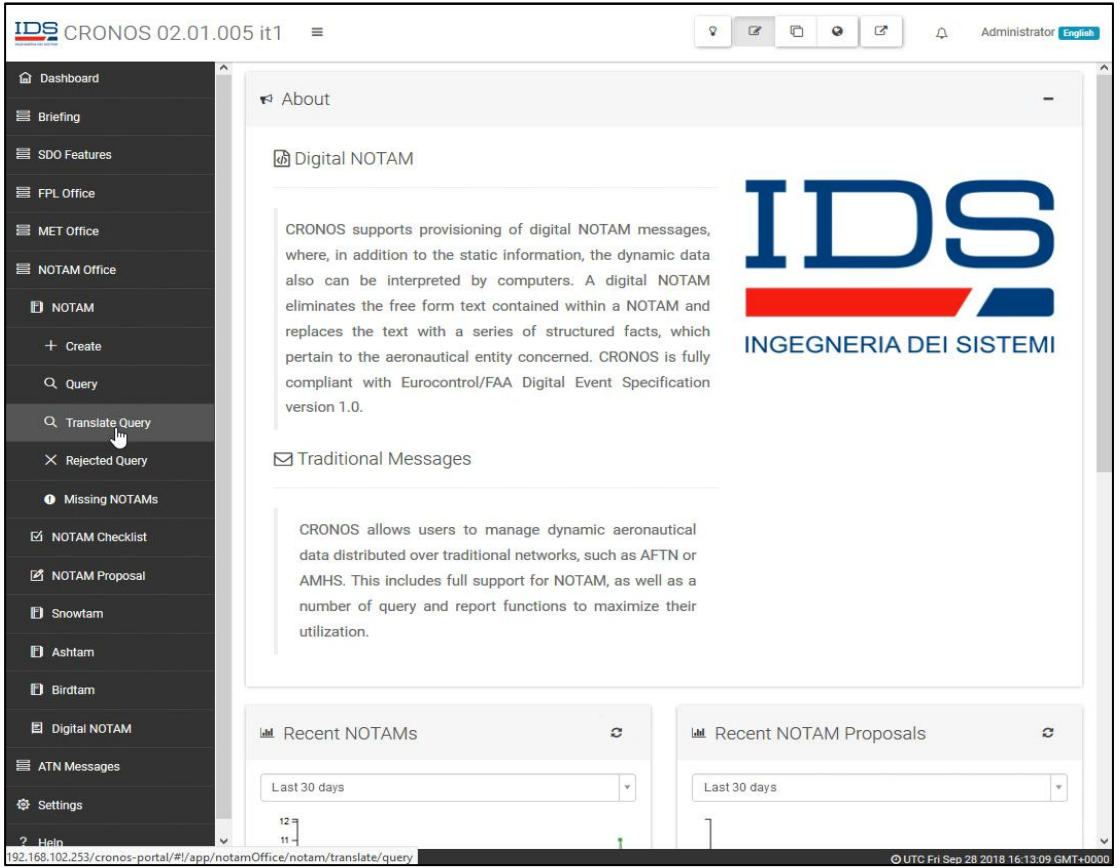
Rejected incoming NOTAM message are available in NOTAM > Rejected query

Several filter conditions are available. For instance, date/time of reception, or date/time of correction of the received message parameters.

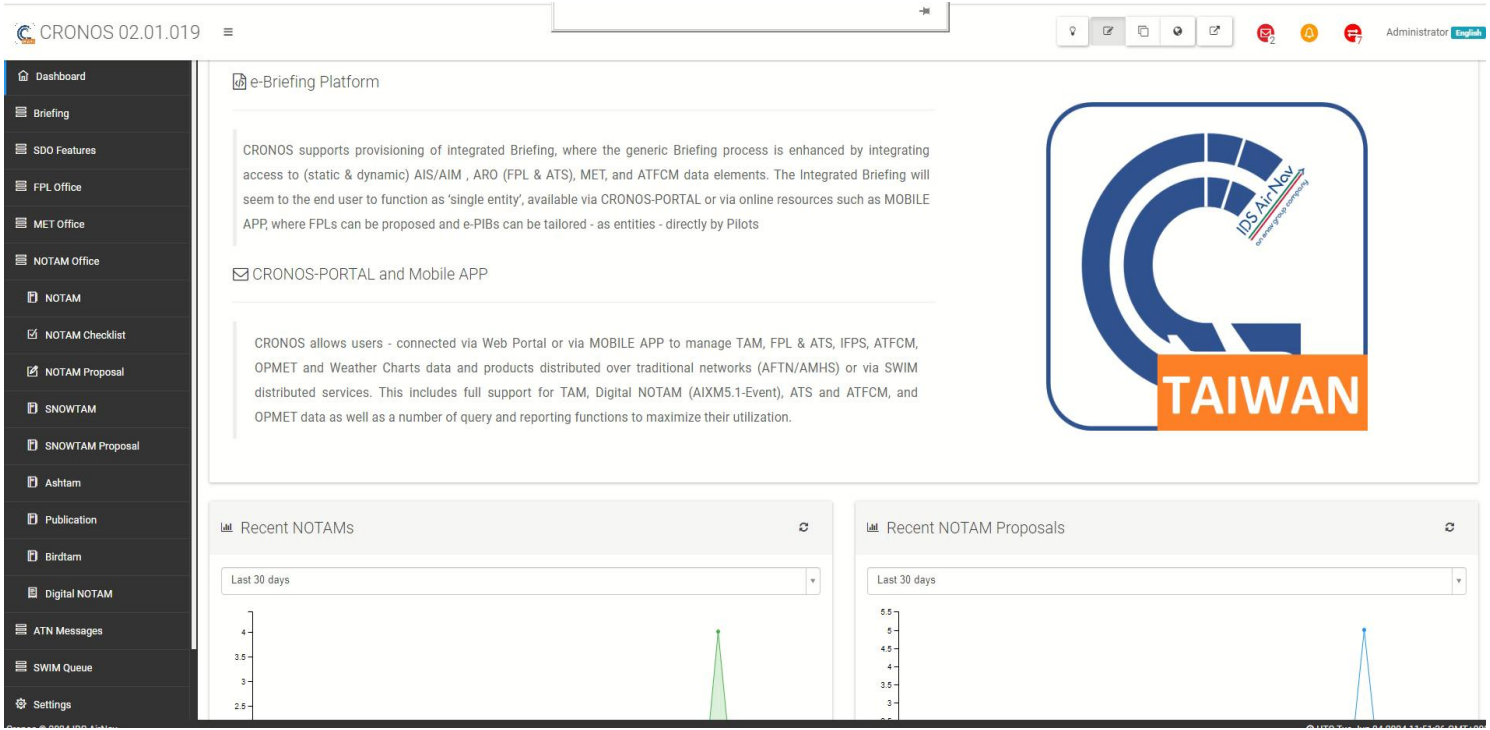


NOTAM REJECTED





MOVE NOTAM TO REJECT



MISSING NOTAM

The maintenance of dynamic data is essential for the efficient operation of a NOTAM Processing Unit, a Publishing NOF of for an aeronautical database administrator.

The application of query messages is required to ensure the database completeness and coherence.

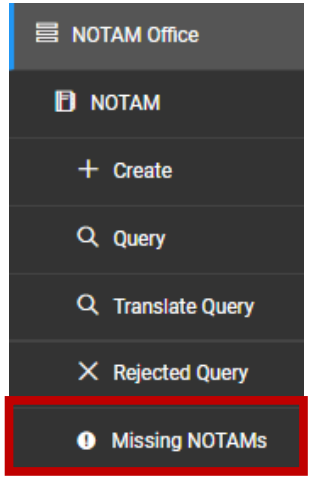
In order to facilitate automatic processing, CRONOS is provided with a silent processing that automatically creates these RQ... requests at anytime a gap exists.

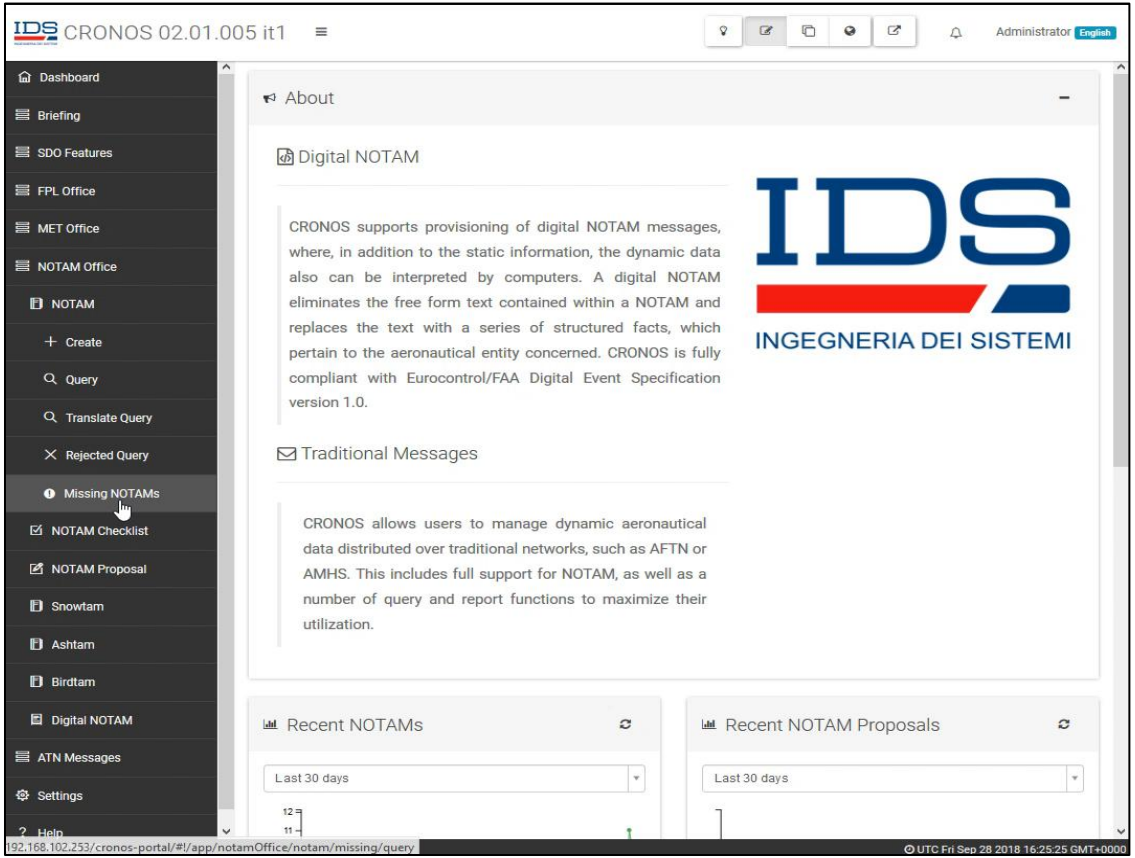
When a manual intervention is needed, Missing NOTAMs function is where a database administrator shall work with.

A Red Color marks all NOF that are inconsistent in terms of completeness

When RQ... process is completed, and no gap is identified, NOF are marked in green color

MISSING NOTAM

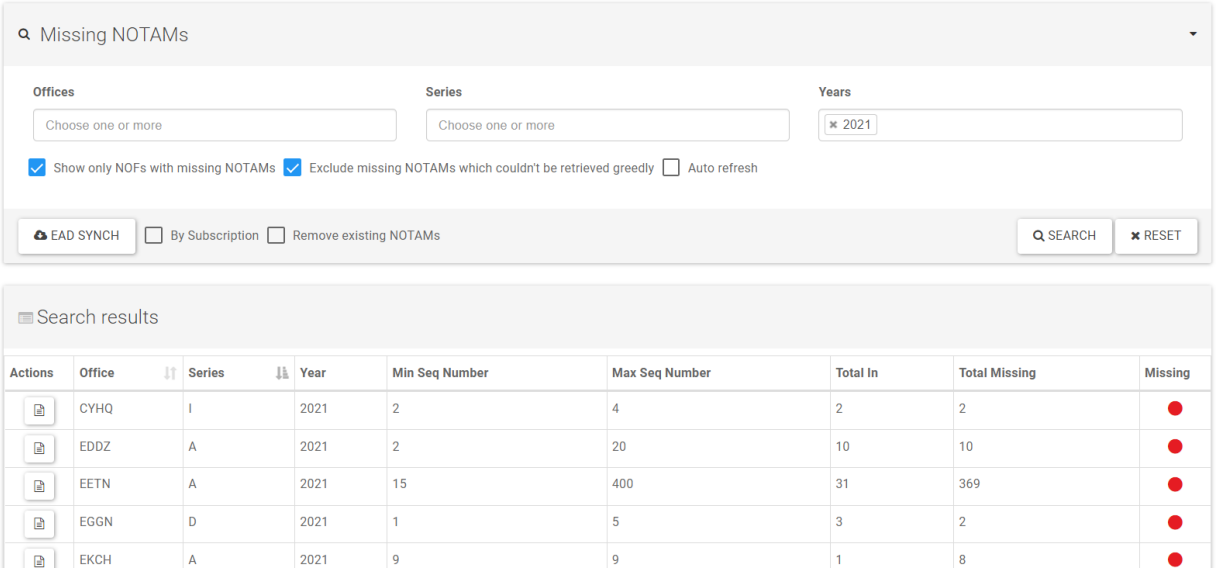




EAD SYNCH

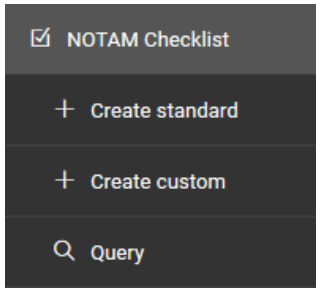
If EAD connection is configured, in the missing NOTAMs page there is possibility to synchronized the AIMDB with EAD via AIMSL. Synch ca be filtered with NOF, series, year or using subscriptions.

‘Remove existing NOTAMs’ delete permanently from DB all related NOTAMs before synchronization.



Actions	Office	Series	Year	Min Seq Number	Max Seq Number	Total In	Total Missing	Missing
	CYHQ	I	2021	2	4	2	2	
	EDDZ	A	2021	2	20	10	10	
	EETN	A	2021	15	400	31	369	
	EGGN	D	2021	1	5	3	2	
	EKCH	A	2021	9	9	1	8	

NOTAM CHECKLIST



3 functions for NOTAM Checklist menu item

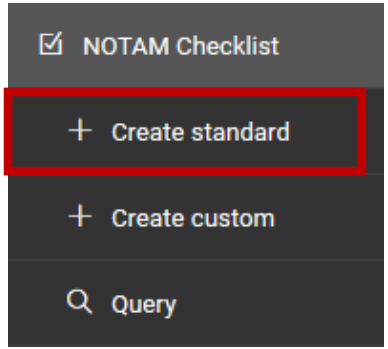
- CREATE STANDARD: used for validation, creation, and promulgation of Standard NOTAM Checklist
- CREATE CUSTOM: used for import of Custom NOTAM Checklist
- QUERY: used for NOTAM Checklist consultation, filtering, and processing

NOTAM CHECKLIST

From Eurocontrol OPADD (Operating Procedures for Aeronautical Dynamic Data) Guidelines:

- Checklist messages are issued as NOTAM messages in the series they refer to
- A Separate Checklist shall be issued for each NOTAM series of each NOF
- The 1st NOTAM checklist in a new NOTAM series shall be issued as NOTAM N, all the others as NOTAM R
- Item A) shall contain list of FIR(s) or the location indicator covered by a Checklist. It may contain ICAO Country Code + “XX” as 3rd and 4th letter
- Item C) shall contain “EST” end of validity, normally for a duration not over a month
- Checklists’ text shall contain numbers of NOTAM not yet incorporated in a normal AIP AMDT or SUP until the time that these NOTAMs are specifically cancelled by the publication of a NOTAMC
- Q-line items: Q) LIXX/KKKK/K/K/K/000/999/…
- Item E) shall be divided in 2 sections: List of Valid NOTAM and List of LATEST PUBLICATIONS

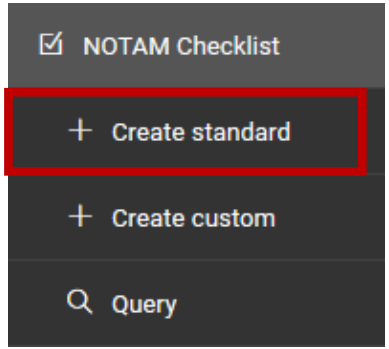
NOTAM CHECKLIST – CREATE STANDARD

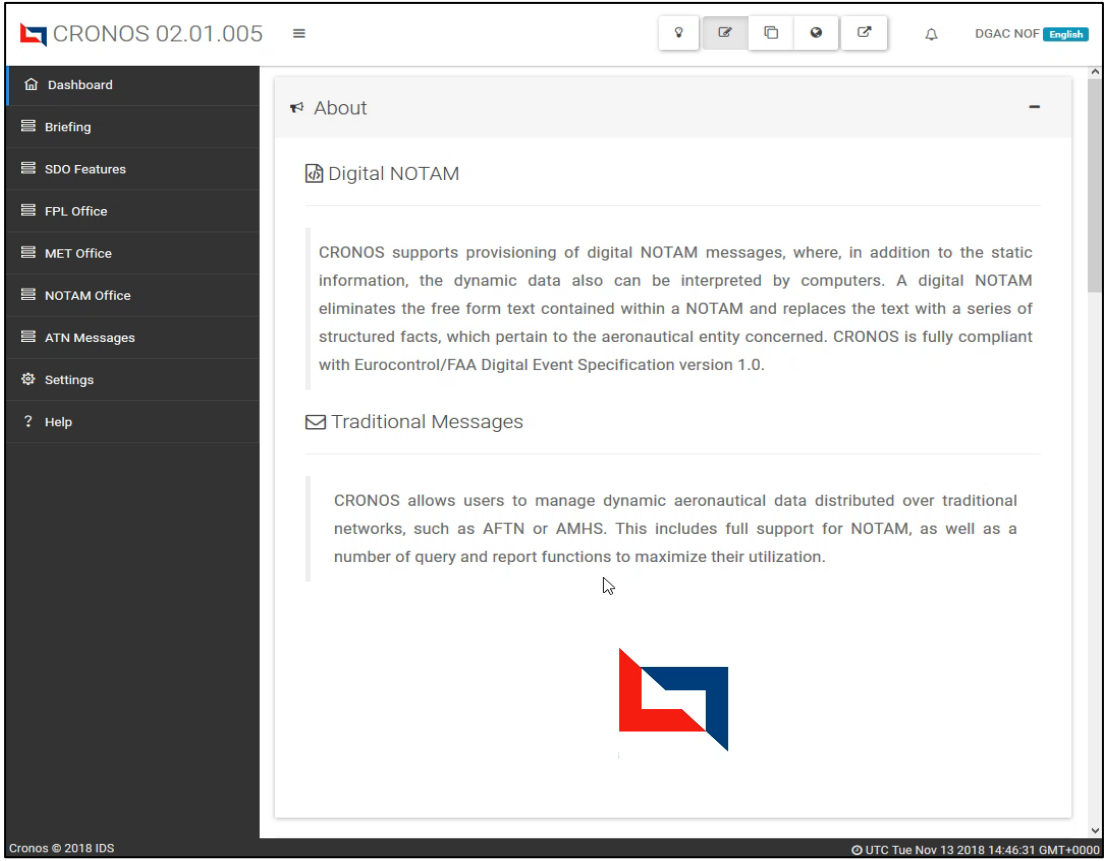


The Web-Form for creation of a NOTAM Checklist is identical to the NOTAM Register form, with the following pre-compiled fields:

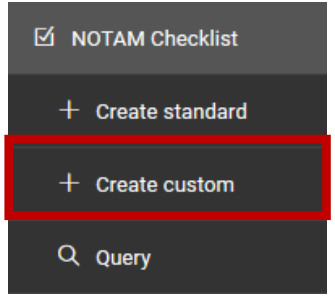
- Q-Code: “KKKK”
- Traffic/Scope/Purpose: K/K/K
- Item A) – Airport field is disabled
- Into Item E) a button called ADD CHECKLIST TEXT is available to automatically fill content
- LIST OF VALID NOTAMs comes from CRONOS Database
- LIST OF LATEST PUBLICATIONS comes from:
- CRONOS Database or
- IDS AIM Suite Services (WePUB) or
- EAD PAMS Service, where available

NOTAM CHECKLIST CREATE STANDARD

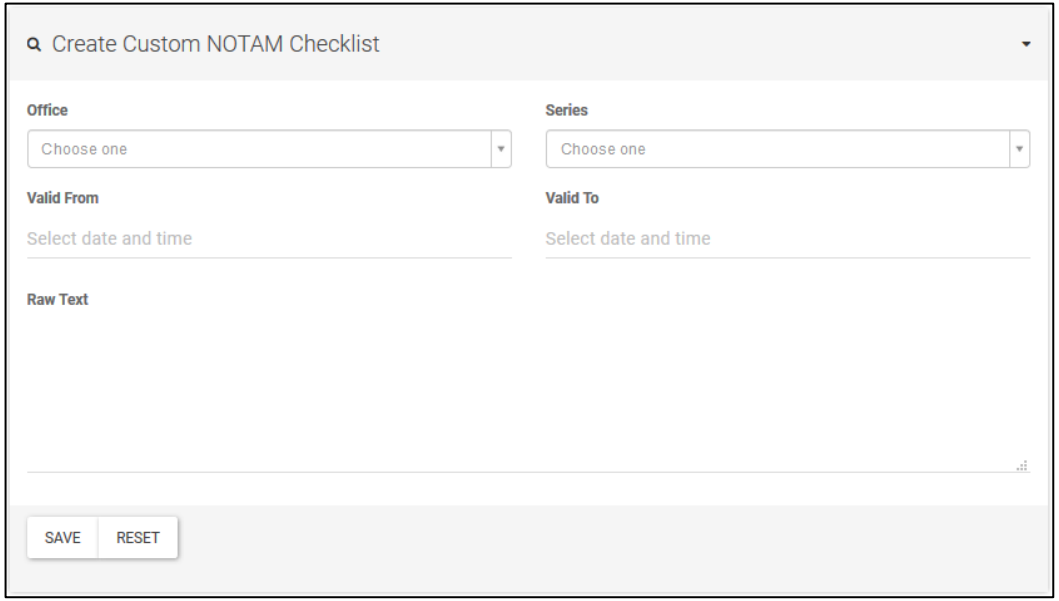




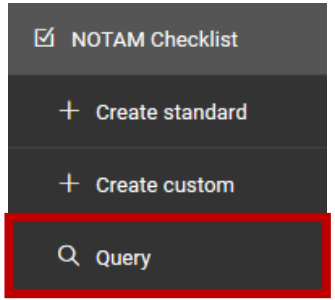
NOTAM CHECKLIST – CREATE CUSTOM



CRONOS provides the Users with a functionality to import also a custom raw text checklist



NOTAM CHECKLIST – QUERY



NOTAM Checklist Query page provides Users an interactive way to search, filter, sort NOTAM Checklist messages and process them.

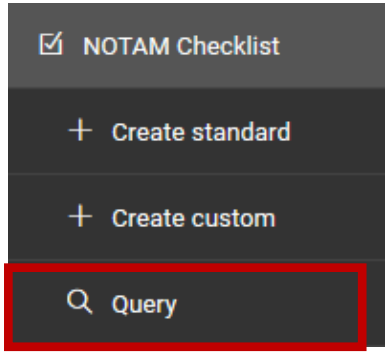
Default Query filter is set to:

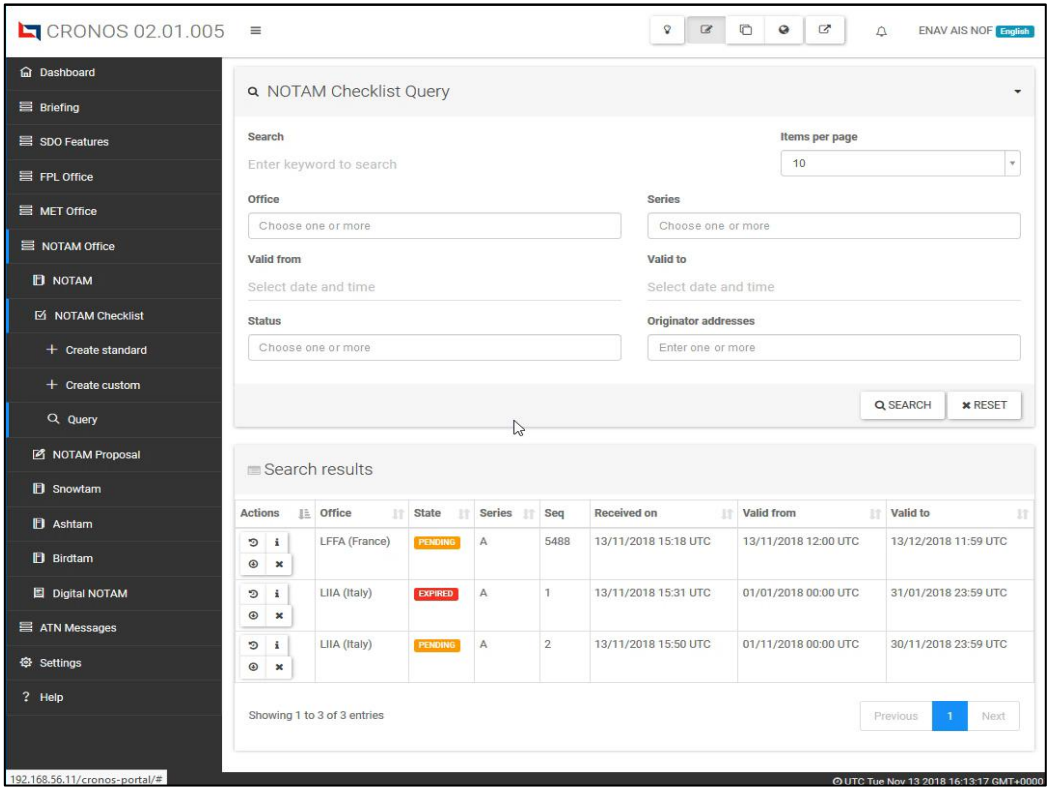
- Items per page = ‘10’
- Status = <Pending>

NOTAM Checklist Query filter includes:

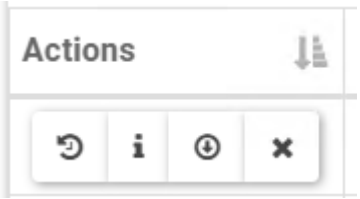
- GENERIC TEXT SEARCH
- OFFICE: (list of) <ICAO NOTAM Office>
- SERIES: (list of) <ICAO NOTAM Series>
- VALIDITY DATE (From – To)
- STATUS: Pending, Processed, Expired, Removed

NOTAM CHECKLIST QUERY





NOTAM CHECKLIST – QUERY



History: opens pop-up window displaying raw message content and history information

Process:

opens the Checklist Information page, displaying the raw message content, with the option to process the checklist, to find out all the:

- NOTAMs present in DB but not in checklist in black color (obsolete)
- NOTAMs missing in DB but present in checklist in red color (missing)
- NOTAMs present in DB and checklist in blue color

Create RQN correspondently

Send RQN to the Originator of the Checklist

Mark as Processed: to mark a checklist as processed already

Mark as Removed: to logically remove a checklist from the pending checklist queue

AUTO PROCESS OF NOTAM CHECKLIST/GAP

If enabled by settings, CRONOS is able to identify automatically eventually gaps in incoming NOTAM numbers and to process automatically inbound checklists.

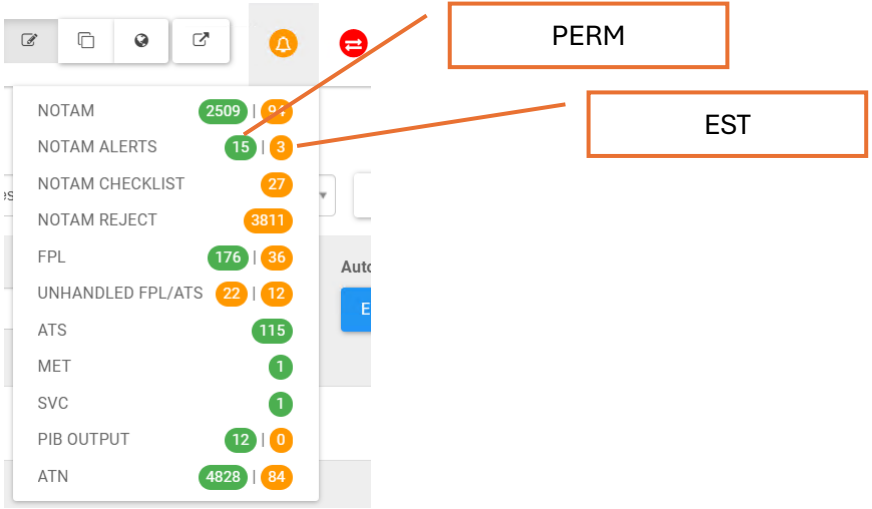
If NOTAMs are needed and EAD connection is enabled, NOTAMs requests area sent automatically to EAD via GET request, and if it fails via AMHS. Without EAD connection RQNs are sent directly to responsible NOF via AFTN/AMHS network (according Office Query Address).

Sending of RQN only via AIMSL can be set in System Options, variable *aim.notam.rqn.automaticGenerationOnGap.ifAimSlFailsDoNotSendMessagesOut*.

REMINDER FOR EST/PERM NOTAM

In the bell of Messages Monitoring, CRONOS shows NOTAM Alert in term of PERM NOTAM in the system and EST NOTAM next to expiration.

Email notification will be sent to NOF operator with EST NOTAM next to expiration. The amount of time between notification end expiration ca be set by administrators.



EXERCISE

Access with your account and send:

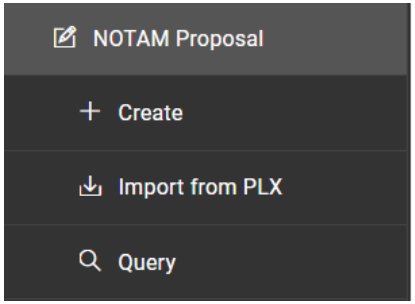
- ***Airport NOTAMN***
- ***NOTAMR on previous NOTAMN***
- ***NOTAMC on previous NOTAMR***
- ***Airspace NOTAMN with SDO linkage***

Check the NOTAM status via NOTAM query and show on map NOTAMs created.

NOTAM PROPOSAL

Proposal workflow

NOTAM PROPOSAL



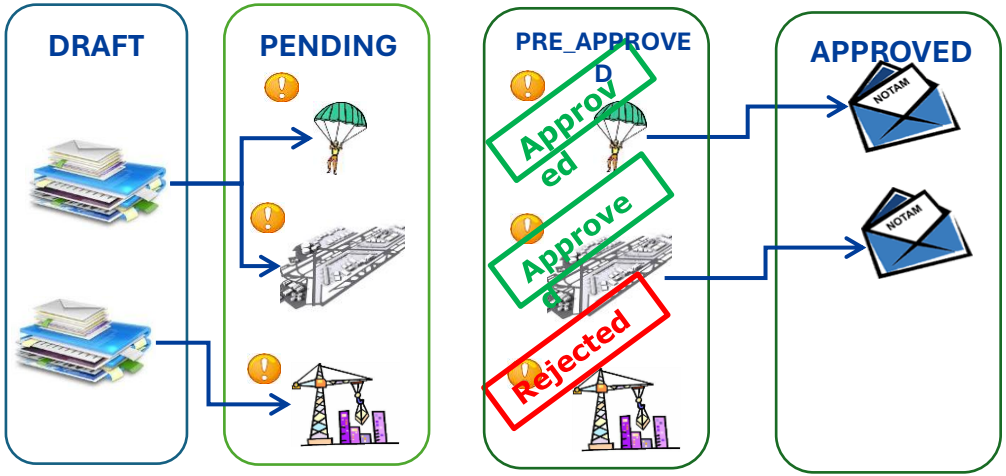
- **Create**: used for validation, creation, and submission of NOTAM Proposal (N, R, C)
- **Import from PLX**: to import NOTAM Proposals created from external application and submitted via a PLX flow (i.e from AIM Portal)
- **Query**: used for NOTAM Proposals consultation

NOTAM PROPOSALS

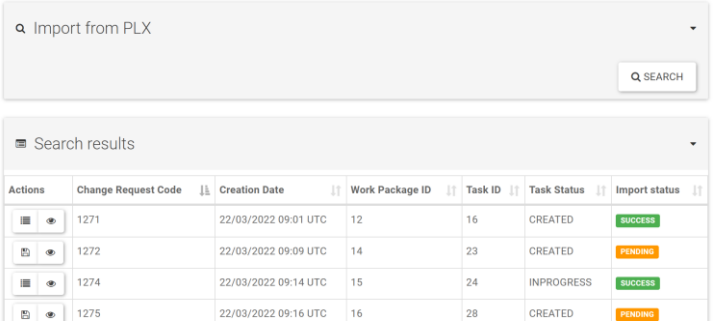
NOTAM Proposals are NOTAM messages at some draft stage or almost NOTAM messages that need validation/approval from deputated users.

CRONOS is capable to manage 2 different types of Proposals

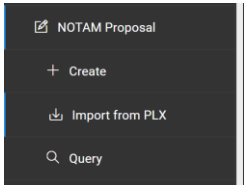
- Internal Proposals : Proposal messages originated and managed completely into the frame of a stand-alone approval workflow
- External Proposals: Proposal messages originated from AIM Portal, Airspace Coordination (via PLX) or ingested from incoming ATN message. The approval workflow is anyway manged in the same way or internal ones inside CRONOS.



EXTERNAL PROPOSALS



From AIM Portal or Airspace Coordination tools, NOTAM proposals have to be imported from PLX from 'Import from PLX' page.



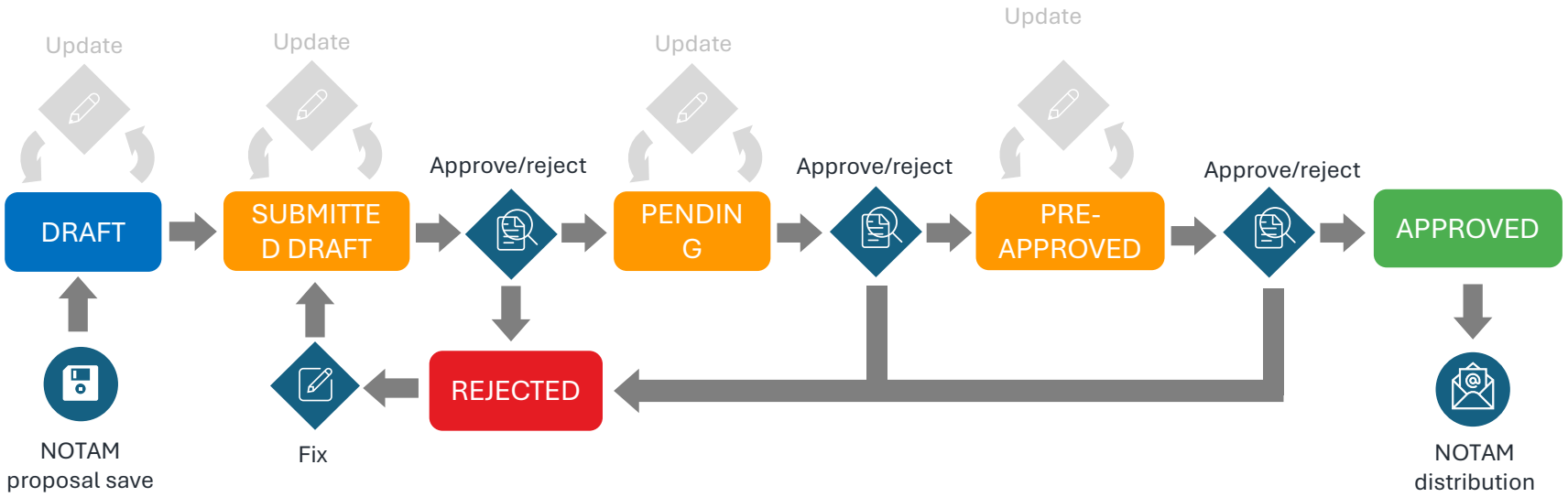

```
(NOTAMN PROPOSAL LIIA W
Q) LIXX/QXXXX/I/NBO/W/000/260/6557N01726W005
A) LIBB LIRR LIPP
B) WIE C) 2201301500EST
D) 0600-1500 E) AREA R125 ACTIVATED
DUE MIL ACT
F) GND
G) FL260
R) REQUESTED BY ACU)
```

From ATN, if incoming AFTN/AMHS messages are correctly formatted, they generate NOTAM proposals

NOTAM PROPOSAL WORKFLOW

Before promulgation, any NOTAM can be affected by different validation and approval steps.

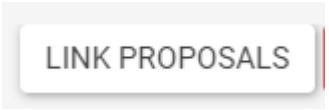
Each status' change can be mapped with a list of possible actions available for a group of accounted users with specific permissions. Different initial status can be set to shorten the workflow.



NOTAM PROPOSAL OPTIONS

The NOTAM proposal creation page is like NOTAM creation page with some more options.

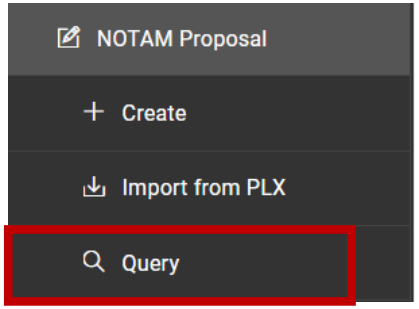
Unlocked & Locked button(s) is used to avoid conflicts on concurrent management of NOTAM Proposal items. By locking the selected NOTAM Proposal, the access on it is exclusively for the User that locked it. (other users can have access to the selected NOTAM Proposal in read-only mode, only)



Link Proposal button is used to open the Link Proposal to Select popup window and select one or more than one NOTAM Proposal that are related to the selected NOTAM Proposal item

Use For Emergency button to mark a NOTAM Proposal item for emergency cases and speed-up the operations along the workflow process of a NOTAM Proposal item. A created NOTAM Proposal in submitted draft with Emergency status will direct pass to pre-approved status for promulgation

NOTAM PROPOSAL QUERY



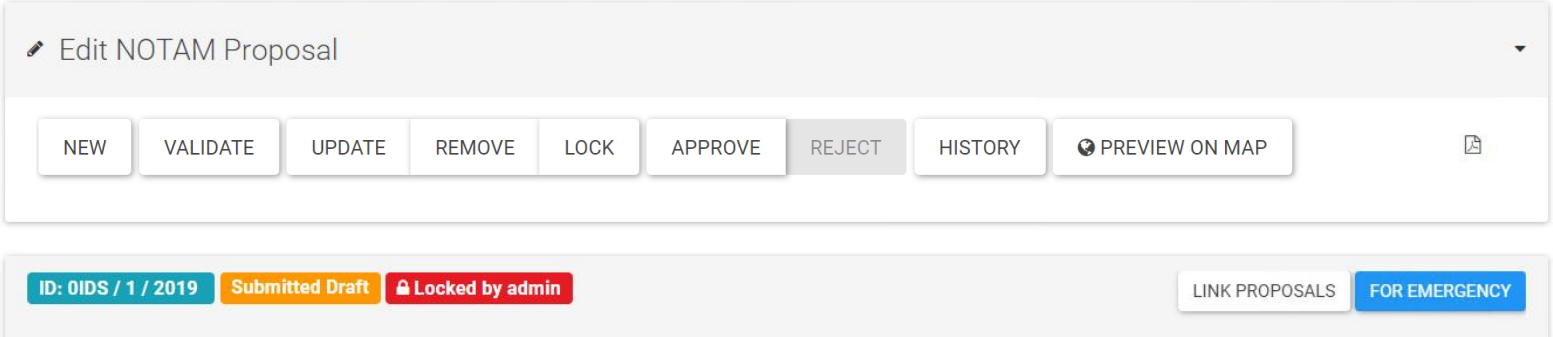
Query Results are presented after execution of SEARCH
Possible Actions per each NOTAM Proposal are:

- To open the selected NOTAM Proposal and Edit
- To open the selected NOTAM Proposal in history log
- To create new NOTAM Proposal

		ESSA	C	LFV_FAT	1	2019	ESCF	Pending	WIE	Other	admin
		ESSA	A	0IDS	1	2019	ESSP	Submitted Draft		Other	admin
		SBBR	F	TEST003	1	2018	SBWR	Approved	-	Other	admin3
		ESSA	C	TEST_08	2	2020	ESGK	Pre approved	WIE AE	Other	admin

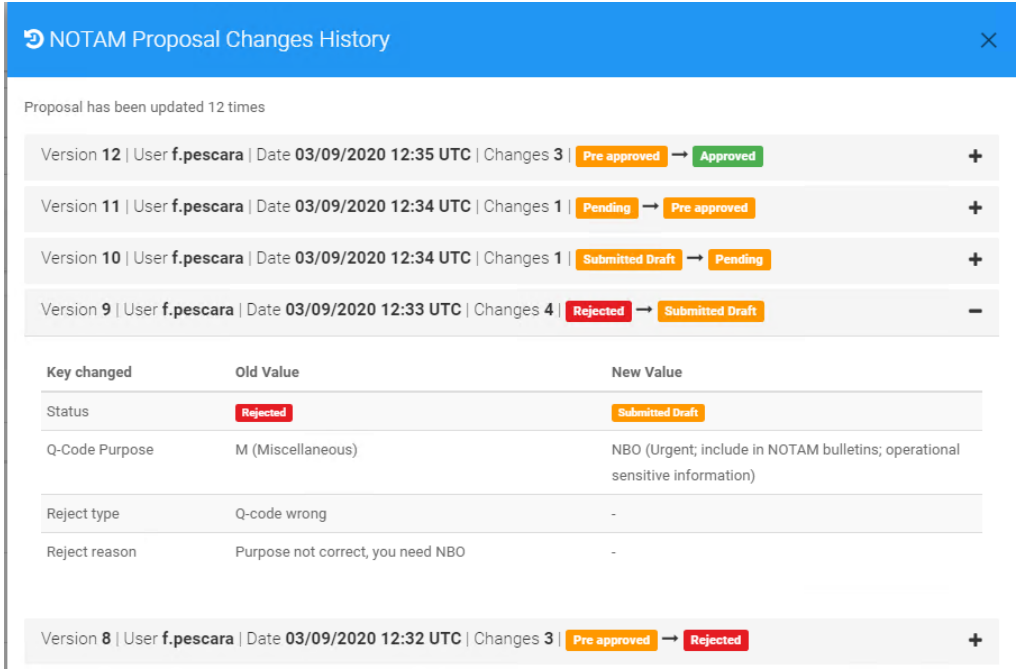
NOTAM PROPOSAL EDIT

In the edit page all functionalities to edit, remove, lock/unlock, approve and reject the proposal are available.
'Reject' button will be available after validation.

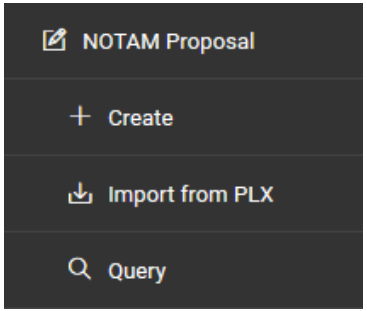


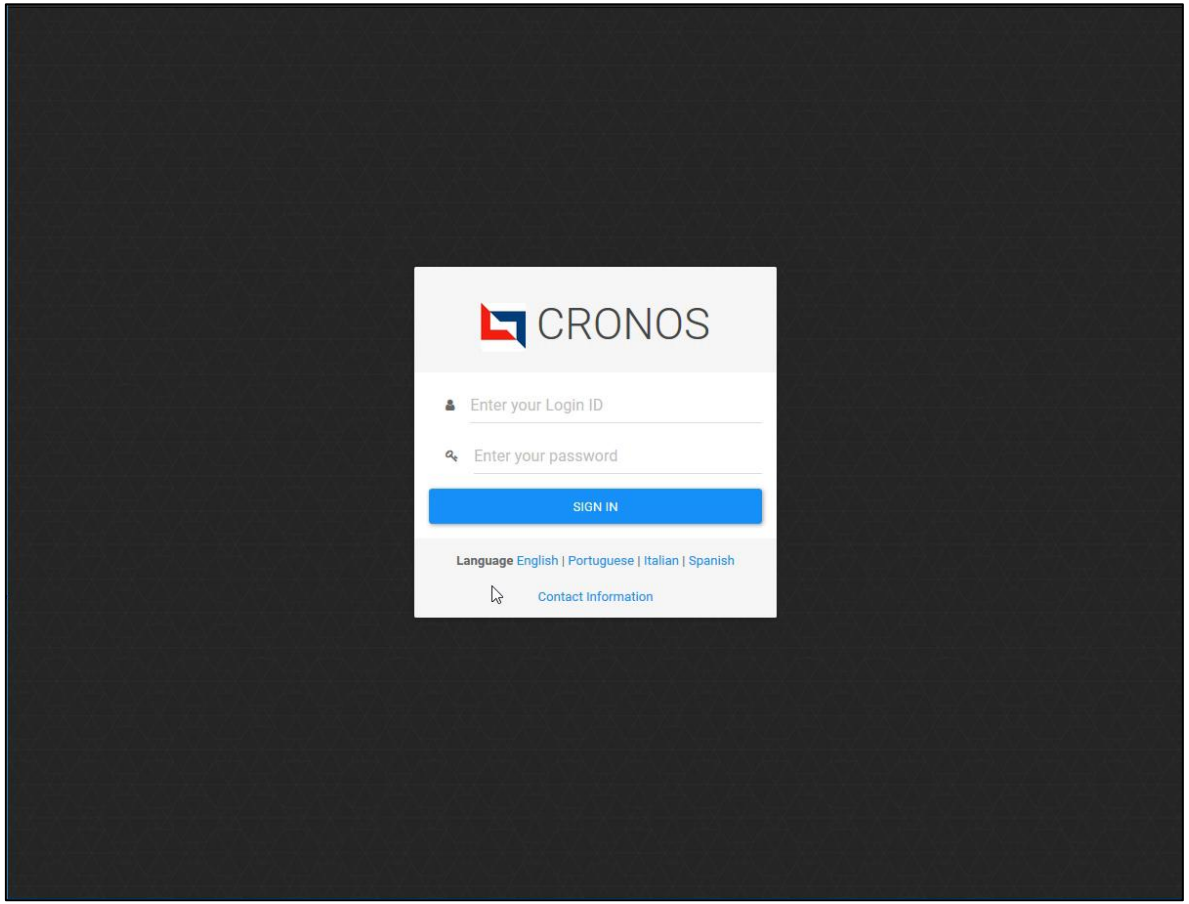
NOTAM PROPOSAL HISTORY

In the history any changes and steps are tracked and displayed



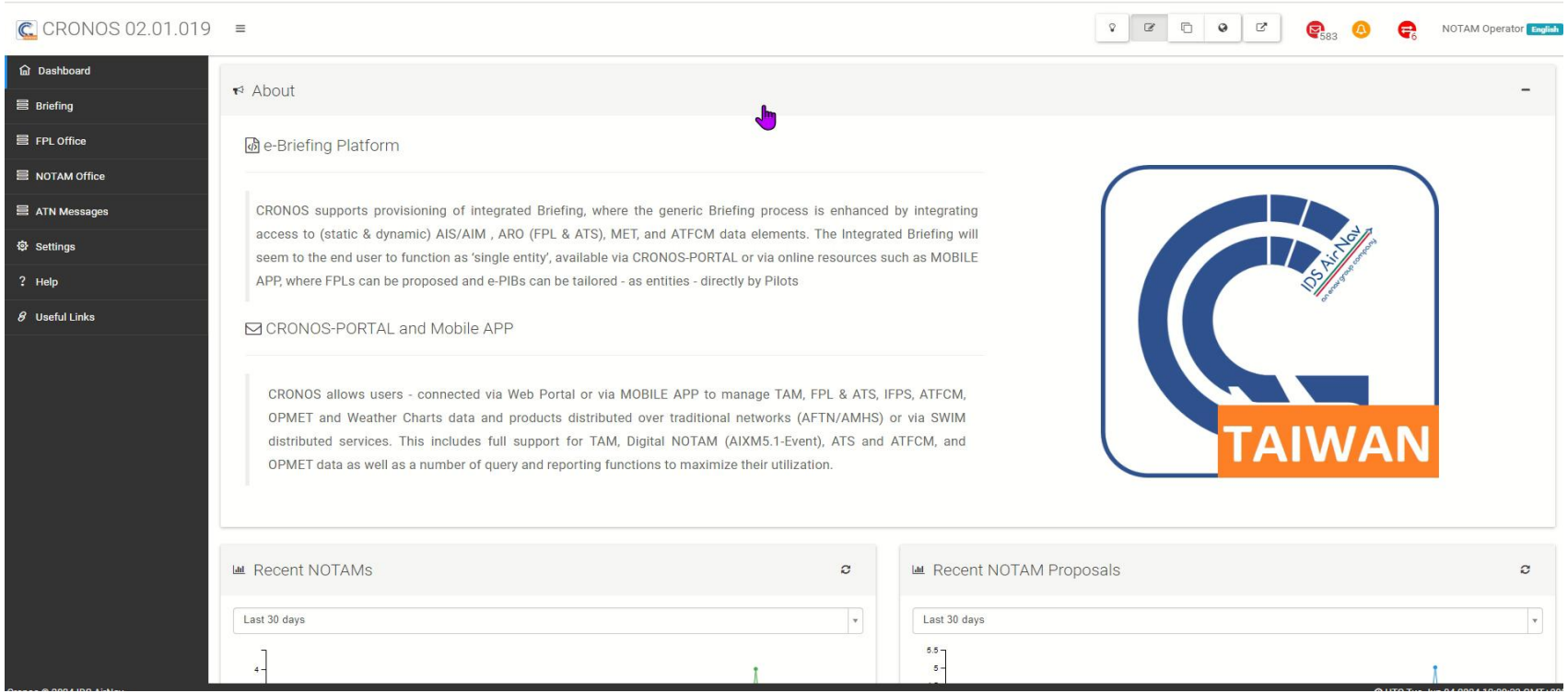
NOTAM PROPOSAL





INCOMING NOTAM NOTIFICATION

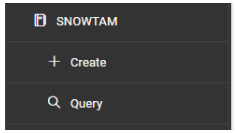
Sound notification until ACK. Configurable via system options



ASH&SNOW-TAM

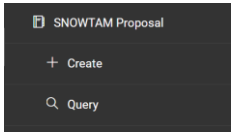
SNOWTAM, SNOWTAM Proposal and ASHTAM

ASH&SNOW-TAM



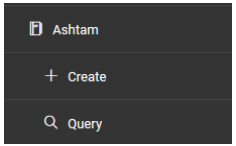
2 functions for SNOWTAM management

- CREATE: used for validation, creation, and promulgation of SNOWTAM
- QUERY: used for SNOWTAM consultation, filtering



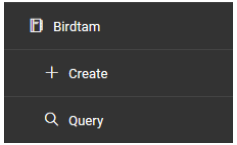
2 functions for SNOWTAM Proposal management

- CREATE: used for validation and creation of proposal
- QUERY: used for SNOWTAM proposal consultation and approval workflow



2 functions for ASHTAM management

- CREATE: used for validation, creation, and promulgation
- QUERY: used for consultation, filtering



2 functions for BIRDTAM management

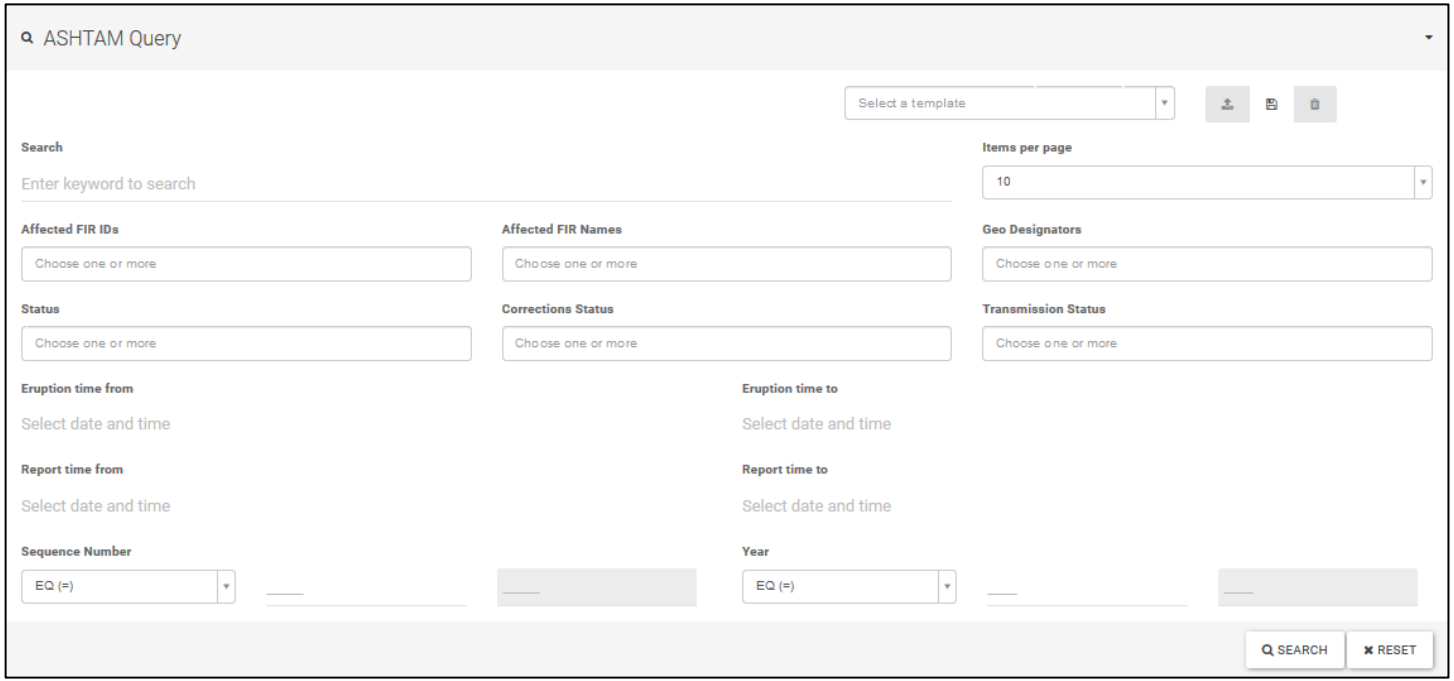
- CREATE: used for validation, creation, and promulgation
- QUERY: used for consultation, filtering

ASHTAM CREATE

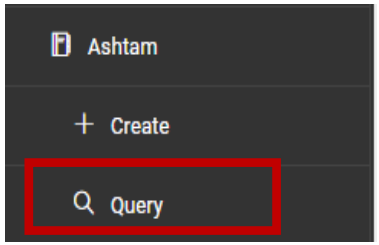
ASHTAM > Create

- ASHTAM Create page provides Users with an assisted window to validate and submit ASHTAM messages
- Once ASHTAM is successfully validated, it is possible to save it as a template for future re-use
- Final validation and consistency is always performed prior to the submission of any message
- Incorporation of ASHTAM messages into PIB is highly recommended, as it improves pre-flight briefing and provides airline operators with more comprehensive information

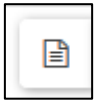
ASHTAM CREATE



ASHTAM QUERY



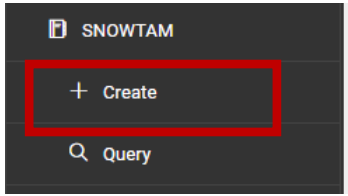
For each ASHTAM in the Results' List:



To open View ASHTAM Detail pop-up window

To create new ASHTAM from an existing one

SNOWTAM

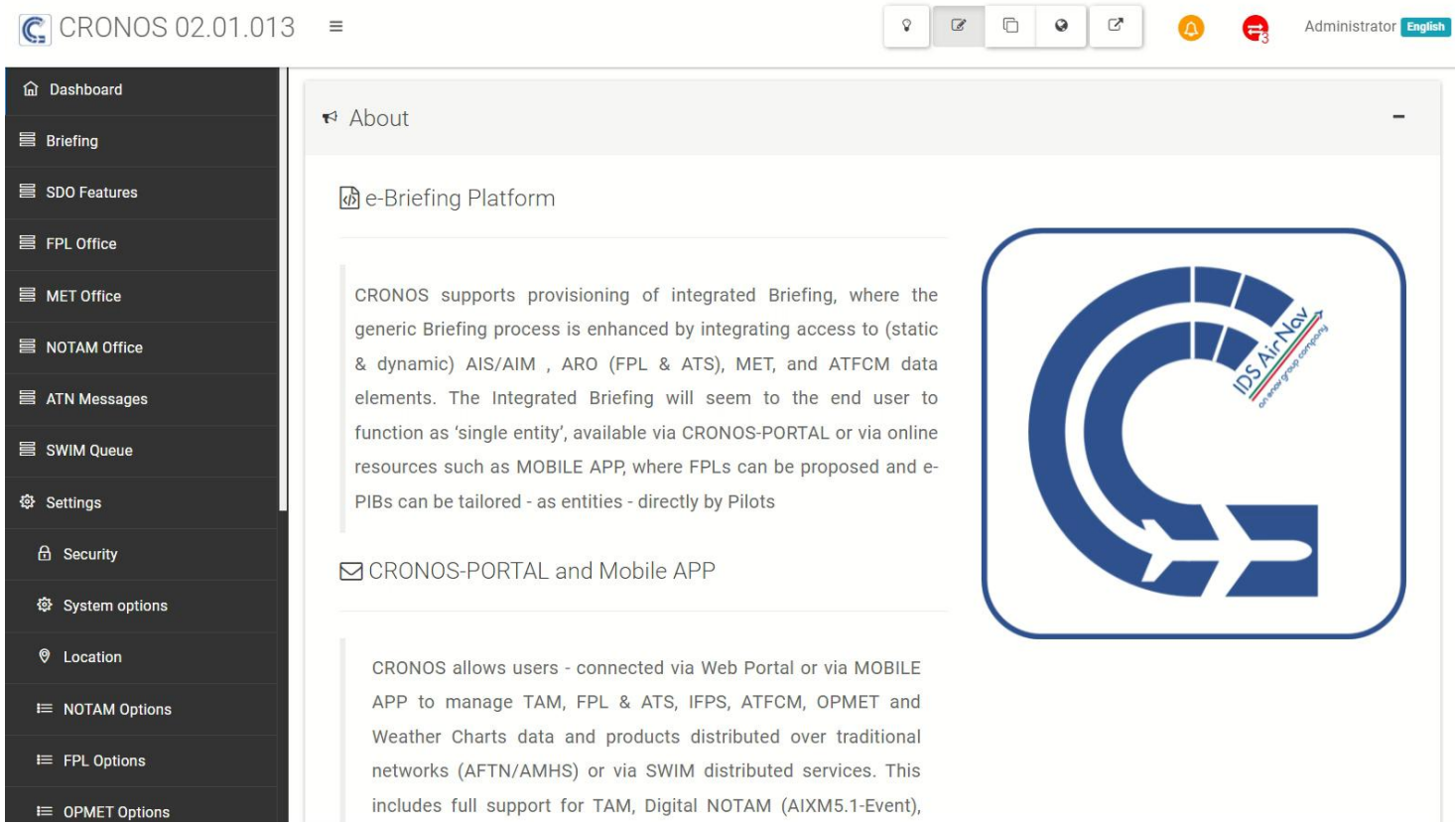


SNOWTAM Create

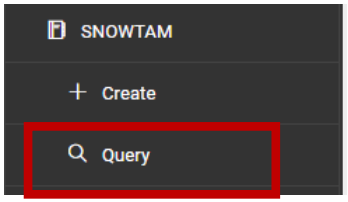
- SNOWTAM Create page provides Users with an assisted window to validate and submit SNOWTAM messages
- Once SNOWTAM is successfully validated, it is possible to save it as a template for future re-use
- SNOWTAM Create page is assisted in a way that fields are related each others, helping Users to avoid any mistake
- Final validation and consistency is always performed prior to the submission of any SNOWTAM message
- Maximum validity of SNOWTAM is 24 hrs or 8 hrs according SNOWTAM format, unless replaced earlier by a new SNOWTAM or a COR message
- Incorporation of SNOWTAM messages into PIB is highly recommended, as it improves pre-flight briefing and provides airline operators with more comprehensive information

ⓘ SNOWTAM pre-2020 or GRF ICAO format can be setup by administrators in System Options, variable *aim.snowtam.distribution.format*

SNOWTAM GRF


CRONOS 02.01.013
Administrator
English
Dashboard
Briefing
SDO Features
FPL Office
MET Office
NOTAM Office
ATN Messages
SWIM Queue
Settings
Security
System options
Location
NOTAM Options
FPL Options
OPMET Options
About
e-Briefing Platform
CRONOS supports provisioning of integrated Briefing, where the generic Briefing process is enhanced by integrating access to (static & dynamic) AIS/AIM , ARO (FPL & ATS), MET, and ATFCM data elements. The Integrated Briefing will seem to the end user to function as 'single entity', available via CRONOS-PORTAL or via online resources such as MOBILE APP, where FPLs can be proposed and e-PIBs can be tailored - as entities - directly by Pilots
CRONOS-PORTAL and Mobile APP
CRONOS allows users - connected via Web Portal or via MOBILE APP to manage TAM, FPL & ATS, IFPS, ATFCM, OPMET and Weather Charts data and products distributed over traditional networks (AFTN/AMHS) or via SWIM distributed services. This includes full support for TAM, Digital NOTAM (AIXM5.1-Event),
IDS AirNav

SNOWTAM QUERY



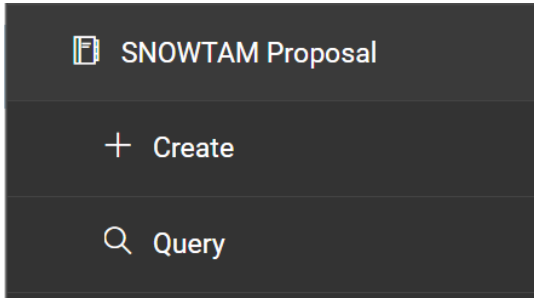
For each SNOWTAM in the Results' List:

To open View SNOWTAM Detail pop-up window

To create a new SNOWTAM message starting from the selected message

To Print out the Results List in electronic PDF Reports

SNOWTAM PROPOSAL MENU



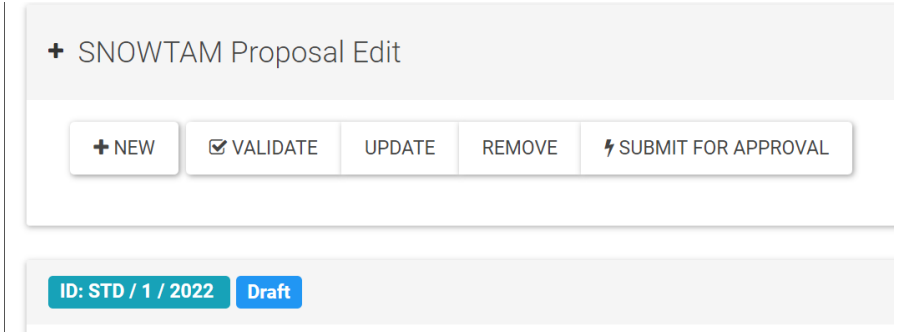
Similar to NOTAM proposal workflow, SNOWTAM proposal section is used to create SNOWTAM proposal that will be sent to the NOF officer for approval/rejection and promulgation.

In the creation page the originator can create and submit for approval the SNOWTAM proposal.

In the Query page SNOWTAM proposal can be analyzed for proposal workflow.

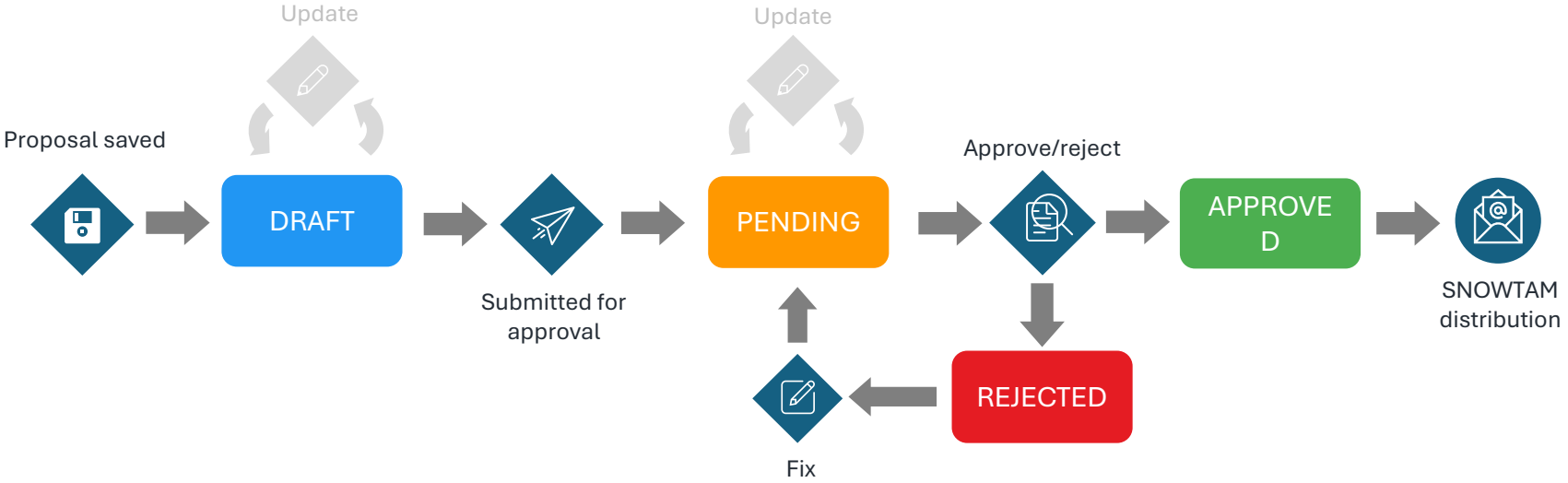
SNOWTAM PROPOSAL FORMS

The creation page of proposal is the same of SNOWTAM creation. The differences are: on top toolbar the initial status is displayed (according SNOWTAM proposal config) and button to manage workflow are available (update and submit for approval for originator and approve/reject for officer)



SNOWTAM PROPOSAL WORKFLOW

Once SNOWTAM proposal is saved as draft, the proposal can be submitted for approval and then, if approved, it will become a distributed SNOWTAM.

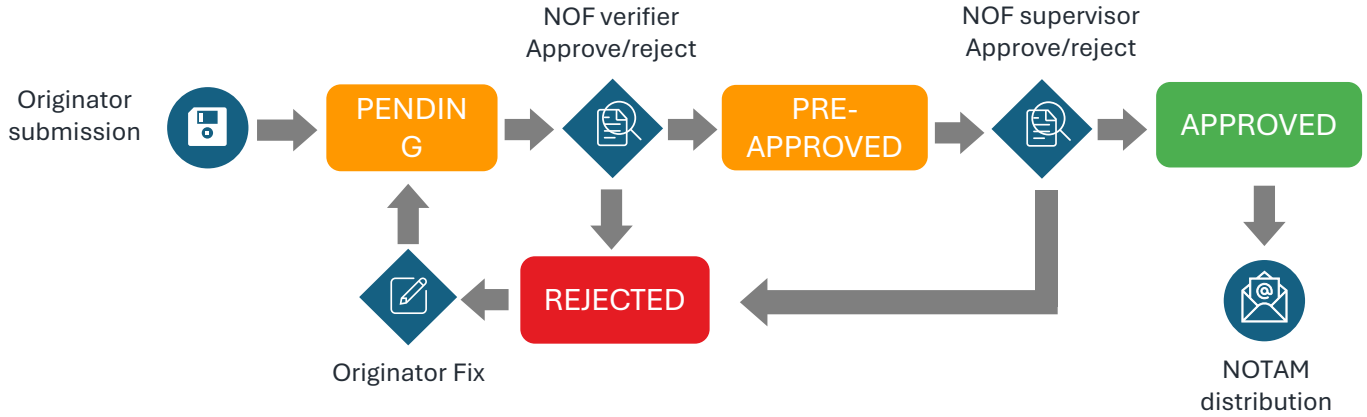


EXERCISE NOTAM PROPOSAL

Access with following users and simulate a notam workflow with approvals and rejections

Originators: notam.originator
NOF verifier: nof.verifier
NOF supervisor: nof.supervisor

The workflow has been shortened with initial state pending. Remember the ID to recognize your proposal.



EXERCISE SNOWTAM

Create SNOWTAM with GRF ICAO formats.

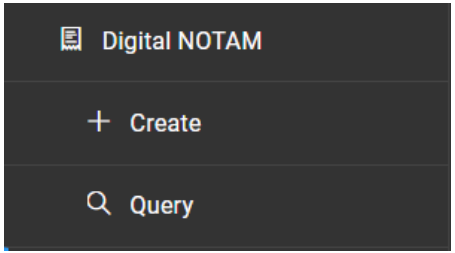
Verify the validity and create a replaced one.

Changing from pre-2020 to 2020 ICAO format must be done from administrator user

DIGITAL NOTAMs

DIGITAL NOTAM Office. DN Creation and query

DIGITAL NOTAM



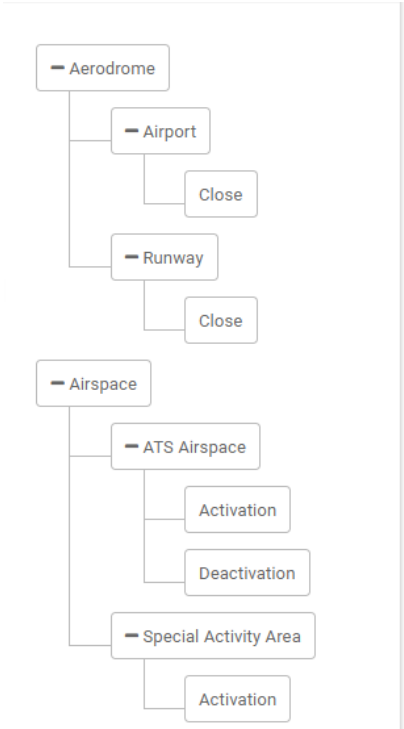
Digital NOTAM menu:

- **Creation**: used to create, validate and distribute a new digital NOTAM
- **Query**: used to query Digital NOTAM

It is based on:

- AIXM 5.1 specification and
- EUROCONTROL Event Schema specification

DIGITAL NOTAM SCENARIOS



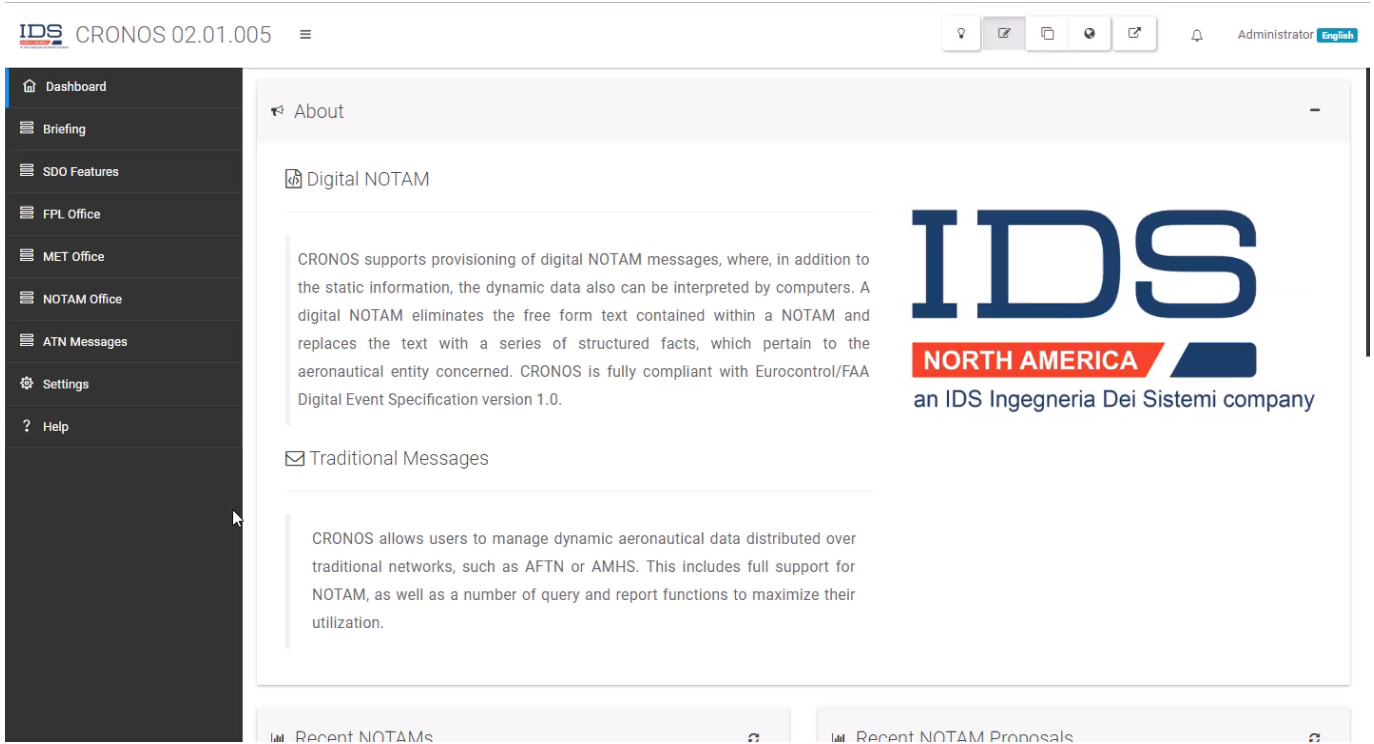
DIGITAL NOTAM - CREATE

Digital NOTAM Create page provides to Users a wizard window to compose, validate, and submit Digital NOTAM messages in normal and XML format.

Once the composed message is validated successfully, then it is possible to submit it.

The page automatically shows several scenarios to choose between. After the selection, the system auto-fills the NOTAM fields in relation with the NOTAM type. (i.e. Q-code, Details)

DIGITAL NOTAM - CREATE



DIGITAL NOTAM - QUERY

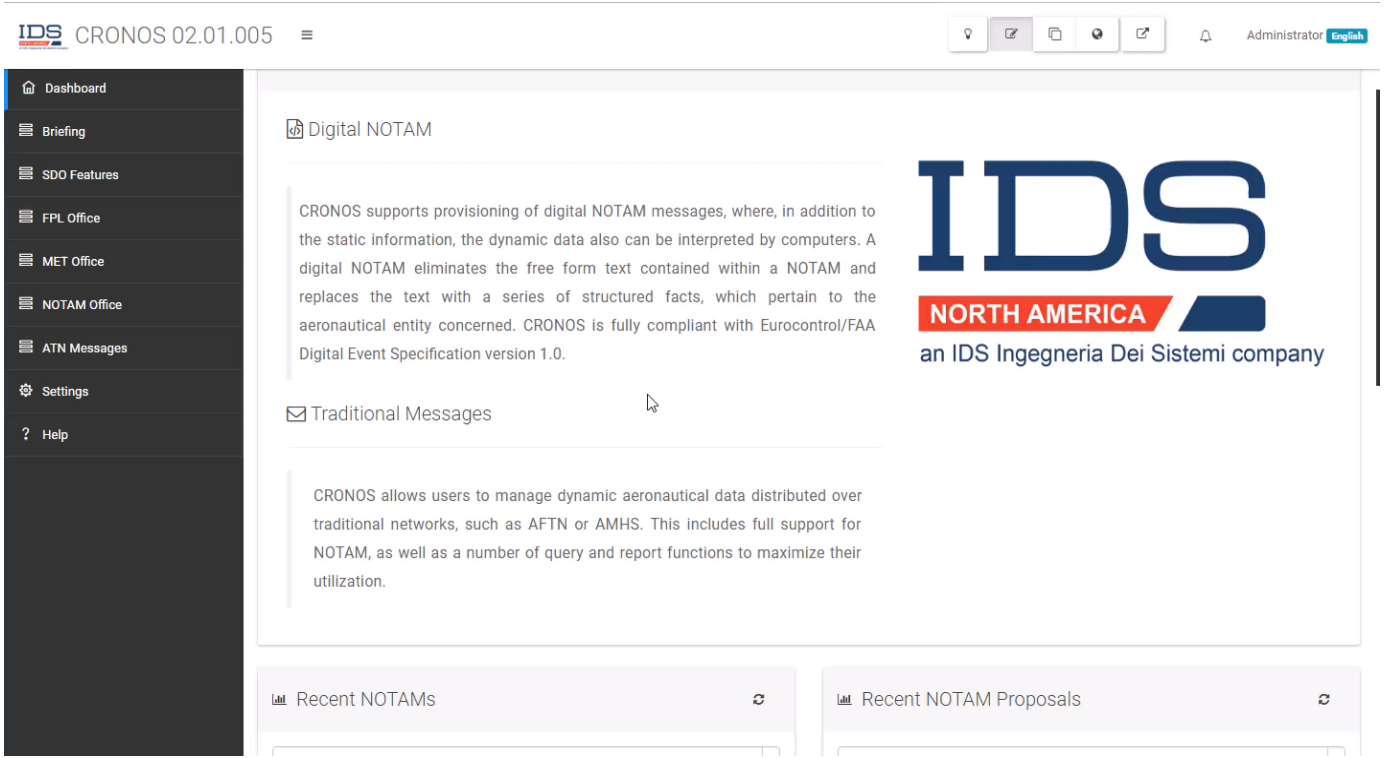
Digital NOTAM Query page provides Users an interactive way to search, filter, sort Digital NOTAMs.

The Query filter conditions are organized in one single tab.

The Query allows to filter by selecting the specific features of the required Digital NOTAM (i.e. a keyword; Validity time, scenario workflow status, status).

There is the possibility to view the Digital NOTAM query results' details and show them on map.

DIGITAL NOTAM - QUERY



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THANK YOU