

INTERNATIONAL CIVIL AVIATION ORGANIZATION

A United Nations Specialized Agency

USOAP Continuous Monitoring Approach (CMA) Workshop

Module 5 Overview of SPACE 2 — iSTARS





The objective of this module is to provide an overview of the SPACE 2 – iSTARS to and its functionalities.









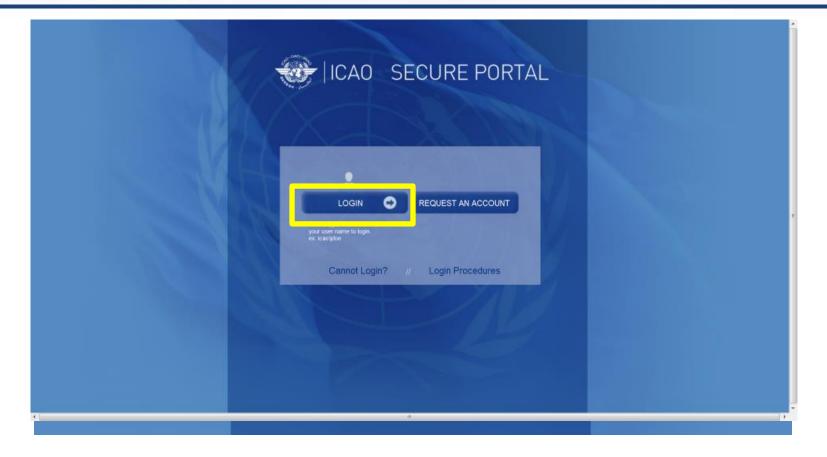
SPACE 2

2 February 2016

Page 4

Access through portal site





Access through portal site



http://portal.icao.int

ICAO Secure Portal	ICAO Public Site	Profile	
	ICAO Secure Portal		
rofile	Welcome	to the ICAO Secure Portal. You ha	ave access to the following groups:
ccess Rules			
AQ	ICAO-NET	ICAO-NET Secure Site	
	ARS	Aircraft Registry System;	
	СМО	Continuous Monitoring and Oversight;	
	SPACE	ISTARS 2.0 SPACE	
			E

SPA	istars 2.0		
	MY APPS	CATALOGUE GROUP MANAGER N	EWS SUPPORT CONTACT US PROFIL
Latest News	Welcome to iSTARS 2.0 SPAC	CE	Most Installed Apps
17 MAP Builder released Read + 20 iSTARS 2.0 SPACE (beta) is ready Read + 20 iPart and y Read + 20 Airport traffic app enhanced Read +	You and 1 other user are currently online Hello, Wajahat! Welcome to our new website.You SPACE is the new version of iSTARS. The Catalo iSTARS apps plus some brand new ones. Apps in granular user access and are much faster as they based Safety Intelligence Engine (SIE). Keep in mind that SPACE is still new, so please of problems. Go to Catalogue	gue contains all previous our new version allow more are connected to our cloud	Total Apps Installed: 4102 (+10 per day) USOAP Charts (295) ICAO DOCs (325) ADREP (237) Go to my Apps >
New App Idea	Latest Applications		Contact Us
Viewing safety information online is very convenient. However, it may be useful also to have that information in a consolidated PDF report, to print, share vis email or attach to a paper. We propose to add a Print2PDF feature to all apps.	MAP Builder Airport Punctuality	View full catalogue > Connections	You have a request to make or a comment regarding our website or one of our application? Please don't hesitate to contact us and share your vision and ideas with us.
I want!		No.	Contact Us!

USOAP Charts

SPACE iSTARS 2.0

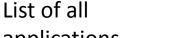


PROFILE





ADREP



applications selected by you

MY APPS

platform



SPACE iSTARS 2.0



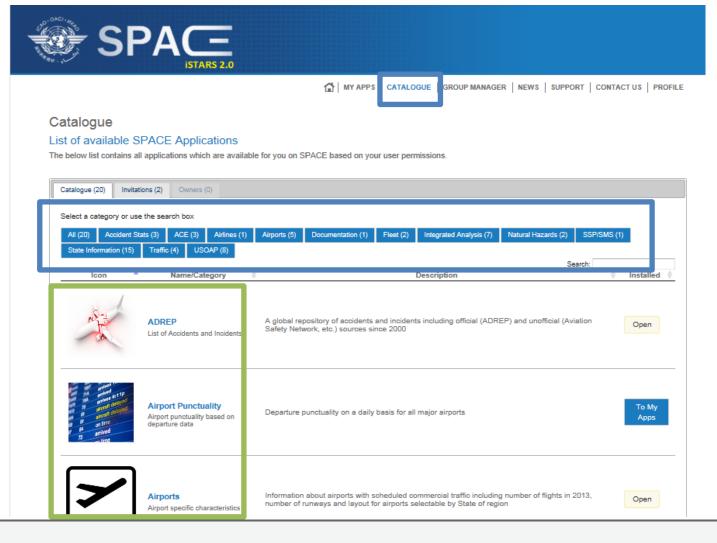


CATALOGUE

Allows you to access all applications available to you by various categories

All categories available to you

All applications available under each category



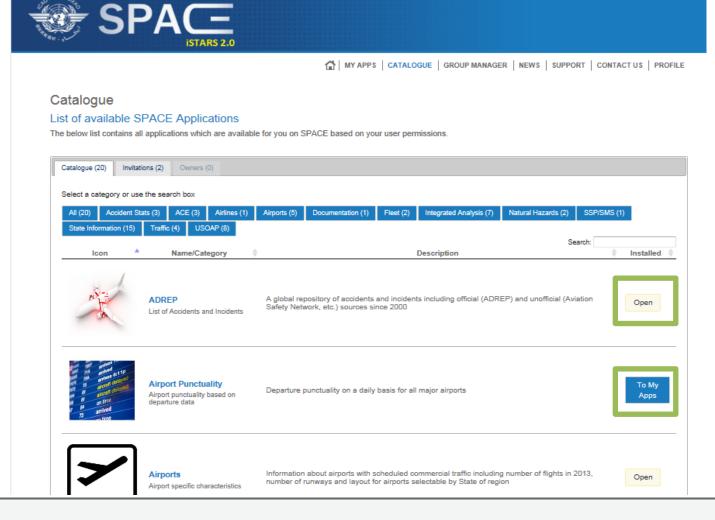


To my Apps

You must select this option if you would like to include the application as part of your personal platform (**MY APPS**)

Open

This appears if the application is already part of your personal platform (**MY APPS**)





Invitations

Allows you to access applications by permission.

To Desktop

This appears if the application is not yet part of your personal platform (**MY APPS**). Click on it to include in you desktop/platform **Open**

This appears if the application is already part of your personal platform (**MY APPS**)



MY APPS CATALOGUE GROUP MANAGER NEWS SUPPORT CONTACT US PROFILE

Catalogue

List of available SPACE Applications

The below list contains all applications which are available for you on SPACE based on your user permissions.





EXAMPLE 1 Here's how the My Applications tab is

used.

LEI by Traffic Let's see this application in depth





LEI by Traffic 😭 | MY APPS | CATALOGUE | GROUP MANAGER | NEWS | SUPPORT | CONTACT US | PROFILE Measured as the LEI by Traffic Safety risk analysis LFI for individual The below chart shows USOAP LEI versus commercial scheduled departures in 2013 per State for a defined group of States States by their You can select a group of States from the drop-down menu. If a specific group of States does not exist, you can create that group through the "Manage my groups" section on the left. you can also view the composition of a selected group. number of schedule The LEI values may differ slightly from those published in the USOAP audit reports that were published from the period 2006 to 2010 due to changes in the LEI calculation algorithm as well as changes in the protocol question grouping structure performed since the State's audit. Choose your predictor(s) departures Choose between one of Show State Names: World the predicting indicators View group composition below. Generate graph Overall LEI 💌 Allows you to see the Overall LEI versus Traffic by State regional/global trend. Build a priority list Above the trend line (highlighted) are usually LEI(%) States of concern for ICAO as they represent States with LEI higher then the trend. This is used as one of the factors for prioritization of 100 10000 USOAP activities in the of commercial scheduled departures in 2013

World - Regression

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regions



Graph generation Can be done for the world or various predetermined regions and sub regions/catagories

State names can also be identified by ticking in the box.

LEI by Traffic

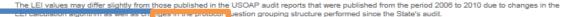
0 10

100

Safety risk analysis

The below chart shows USOAP LEI versus commercial scheduled departures in 2013 per State for a defined group of States.

You can select a group of States from the drop-down menu. If a specific group of States does not exist, you can create that group through the "Manage my groups" section on the left. you can also view the composition of a selected group.





10000

Number of commercial scheduled departures in 2013

World - Regression

1000

100000

100000



EXAMPLE 2 Here's how the My Applications tab is used.

USOAP Data tables This is another application very useful for States to measure their performances versus other States



· Export Data

CSV

Export the data (csv format).



USOAP Data Tables

Allows States to measure their effective implementation (EI) or lack of effective implementation (LEI) by audit areas or by Critical Elements



😭 | MY APPS | CATALOGUE | GROUP MANAGER | NEWS | SUPPORT | CONTACT US | PROFILE

USOAP DataTables

Implementation Indicators

View or download the Lack of Effective Implementation (LEI) data in table format for each State evaluated by USOAP and LEI by area and critical element

Select an Indicator: Effective Implementation (EI)

Select an Indicator: Effective Implementation (EI)									
By Area By CE									
							Search:		
Name	Overall	LEG 🕴	ORG 🕴	PEL 🕴	OPS 🕴	AIR ≬	AIG ≬	ANS 🔶	AGA
Albania	53.92	46.43	45.45	47.06	51.16	50.96	28.57	74.51	52.78
Algeria	58.19	42.86	50	62.5	66.13	68.38	38.14	55.61	60.54
Andorra	26.33	71.43	54.55	66.67	35.71	51.28	12.36	15.38	13.25
Angola	34.8	76.19	72.73	36.71	60	85.32	6.32	9.09	17.78
Antigua and Barbuda	53.92	71.43	75	86.49	92.62	74.17	68.75	16.32	22.92
Argentina	86.25	90.48	92.31	91.78	90.63	92.66	96.84	72.82	81.88
Armenia	96.22	100	83.33	93.51	91.34	99.15	90.72	99.49	99.32
Australia	82.67	77.27	100	82.72	71.31	76.8	96.97	81.31	91.03
Austria	72.99	68.18	64.29	98.78	85.48	95.71	59.38	67.51	44.22
Azerbaljan	58.25	31.82	41.67	68.42	61.9	86.96	44.79	47.72	55.77
Bahamas	45.76	47.37	27.27	73.02	76.42	77.88	65.63	23.23	2.14
Bahrain	66.62	52.38	54.55	75.95	50	86.92	72.16	56.41	73.79
Bangladesh	50.45	33.33	53.85	65.82	81.15	72.97	3.09	34.67	54.68
Barbados	54.3	71.43	72.73	65.71	45.16	52.38	46.39	55.79	57.66
Belarus	53.39	66.67	41.67	57.5	63.41	54.05	59.79	43.81	49.65
Belglum	67.03	72.73	50	82.05	78.4	82.52	37.23	48.48	78.21
Belize	63.99	60.87	78.57	75	56	69.03	32.99	73.85	68.03
Benin	42.26	57.14	57.14	53.16	56.67	72.38	1.03	28.26	44.37
Bhutan	38.26	40.91	36.36	58.73	51.22	53.98	1.03	11.23	68.99
Bolivia (Plurinational State of)	72.08	80.95	50	93.75	79.84	83.93	74.74	46.88	76.67
Bosnia and Herzegovina	67.57	66.67	61.54	88	69.05	76.42	48.96	61.03	71.22
Botswana	53.37	71.43	41.67	55	41.73	63.89	70.53	51.56	43.8
Brazli	85.75	80.95	93.33	91.46	80.95	83.8	95.83	95.41	69.59
Brunel Danissalam	64.84	76 19	100	83.61	49.58	85.96	37.11	55.15	79.73

SPACE istars 2.0



EXAMPLE 3 Here's how the My Applications tab is used.

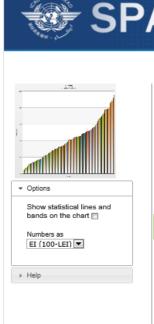
USOAP Charts **Finally another** application very useful for States to measure their performances versus other States and regions and to help States conduct a detailed analysis all the way down to individual PQs can be done using this application



SPACE istars 2.0



USOAP Charts By selecting the regional or global average, States can measure their effective over all implementation against the selection



MY APPS | CATALOGUE | GROUP MANAGER | NEWS | SUPPORT | CONTACT US | PROFILE

USOAP Charts

State USOAP data

These two column charts display the lack of effective implementation for the selected group of States. Clicking on a column on the upper graph will generate the view for that area on the lower graph.

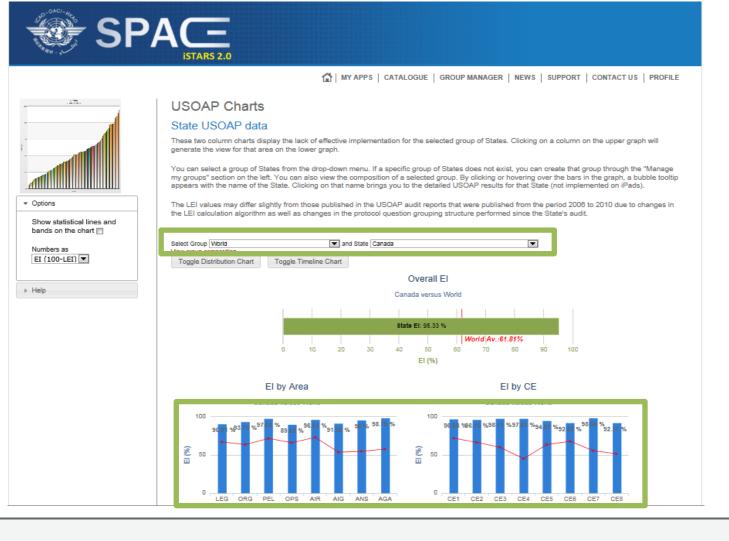
You can select a group of States from the drop-down menu. If a specific group of States does not exist, you can create that group through the "Manage my groups" section on the left. You can also view the composition of a selected group. By clicking or hovering over the bars in the graph, a bubble tooltip appears with the name of the State. Clicking on that name brings you to the detailed USOAP results for that State (not implemented on iPads).

The LEI values may differ slightly from those published in the USOAP audit reports that were published from the period 2006 to 2010 due to changes in the LEI calculation algorithm as well as changes in the protocol question grouping structure performed since the State's audit.





This analysis can be done in further details by audit Areas and by CEs



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This analysis can be done even further by separating each audit area by CE (each combination represented by a circle)

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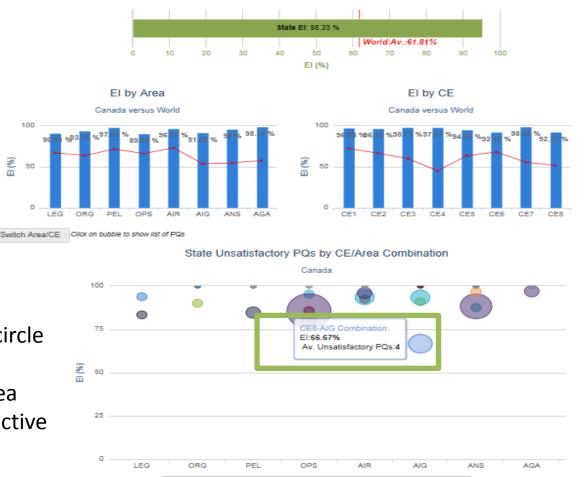




By scrolling over any one of the circles (each representing a CE) users can further determine what are the EI and LEI implementations broken down by CE under each Audit area.

For example: Going over the BLUE circle we find out that there are 4 not satisfactory PQs in the AIG audit area representing CE 8 and the total Effective Implementation of this AIG-CE8 combination is 66.67%

EI (%)

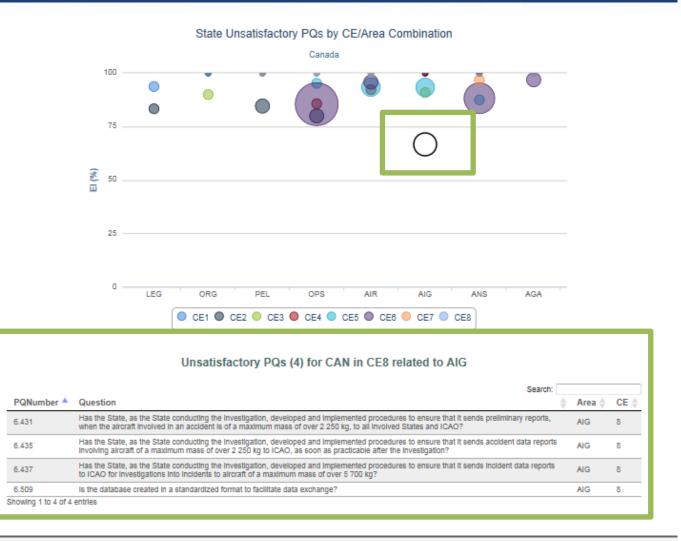


CE1 CE2 CE3 CE4 CE5 CE6 CE7 CE8

Canada versus World



By clicking on the circle, one can determine which are the PQs that were identified as not satisfactory in the circle for the combination selected in the previous slide (AIG – CE8).





Many other interesting applications can be used by users to measure their States performances vs. their region or the global averages.



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You can create your own group for analysis by clicking on

Create a new group

and by filling in the required fields

and finally by selecting States of your interest and clicking on "Create"

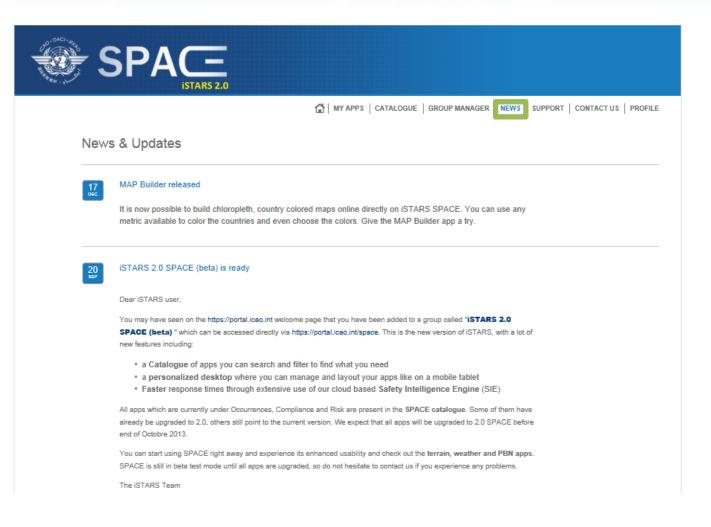
		MY APPS CATALOGUE GROUP MANAGER NEWS SUPPORT CONTACT US	PROFILE
	Group Manager		
<u>\$2</u>	Manage Groups of S	States and Territories	
	This app allows the building of each group. The groups can th The create a new group, click groups name and then the del		s(+) next to
		All * fields are required.	
			click on th
		Custom group name *	
▼ Add New			
	Show My Groups 😿 Reset	Description *	
Create a new group.	Name		
700	Showing 0 to 0 of 0 entries		
		Is iSTARS Group	
		Uncheck this bax if you do NOT want this group to be used by other SFACE users. By default, groups you create can be seen and used by every	
		SPACE user.	
		States *	
		no selected option * 253 available options P *	
		▼ Asia (52) 🌐	
		Afghanistan Armenia	
		Azerbaijan	
		Bahrain	
	1	Bangladesh	
		Bhutan Brunei Darussalam ganiz	ation (ICAC
		Cambodia	
		China	
		China, Macao Special Administrative Region	
		Cyprus	





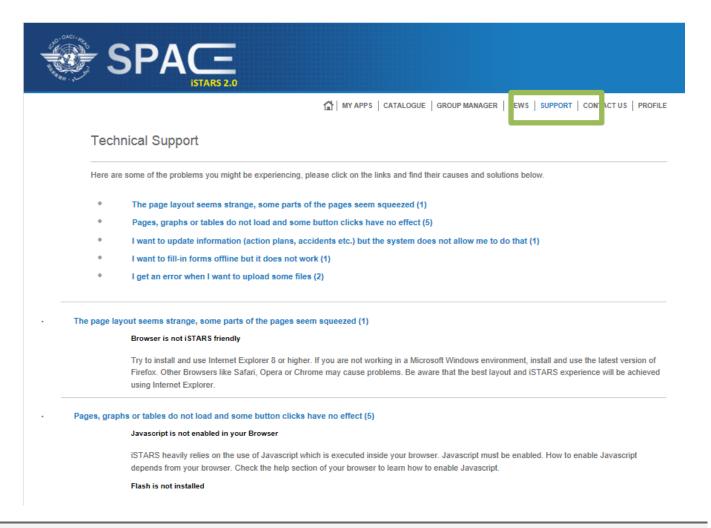


Any modifications or introduction of new applications will be identified through the "NEWS" tab





Questions and answers (Q&A) service can be attained through the "SUPPORT" tab



SPACE 2 – iSTARS administrator can be contacted by using the "CONTACT US" tab for continuous assistance.









SPACE 2

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