

Network Manager nominated by the European Commission



EUROCONTROL Call Sign Similarity Project

Call Sign Similarity Tool (CSST) ICAO MID Region 1st Call Sign Confusion Ad-hoc Working Group Abu Dhabi, United Arab Emirates 16- 18 February 2015

> Richard Lawrence Call Sign Similarity Project Manager NMD/NOM/SAF

Operational Concept – Use Cases







CSS Tool Overview









CSS Tool



 CSST is an application hosted in the Network Manager (NM) NOP Portal.







- Constraints on Flight Id (Call Sign) Composition

e.g. no use of alphanumeric, use of Bigrams in France, use of final letters in NATS









- De-selection of individual rules

Provide some flexibility in the de-

- Related conflicts are not considered for de-
- **Preferences in format and data content**

De-confliction modes:

- Full Automatic, Semi-Automatic, Manual
- Flight Selection Criteria determines which call sign to change

NOP Portal Access





NOP Portal Access



NOP Network Operations Portal -	FrontMotion Firefox						JN
NOP <u>Network Operations Portal</u>	+						
https://www.nm.euroco	ntrol.int/PORTALCSST/gateway/spec/index.	html	☆ ▼ (🕽 🛿 🛪 Google	P	ŧ	^
Resources ACC3 You are not authorise Call Sign Similarity To Disconnect Setup Managemen	CUSTOMISATION (HELP Post-Operations ed to see ACC3.	16/04/2014 10:29 s2 urc Tractical PreTactical Opending on the nature of your enquiry you contact with the NM or make a search on the page Network Operations - Real time Network Operations - Real time Network Operations - Post event NM - All contacts EUROCONTROL Contacts	TARGET DATE: 16/04/2014 16/04/2014 SET D (RESOURCES) Strategic a can get direct a Agency Contacts	Usemame: she	SEARCH) LOGOUT)		
	Соругіє	ht mailto:webmaster@nm.eurocont	rol.int Disclaimer Label				
i FirefoxESR automatically sends som	e data to FrontMotion so that we can improv	e your experience.			hoose What	[Share	×



CSS Tool Workflow



	CSST	V	orkflow	
Schedule Management	Build		Prepare	Detect / De-Conflict
Create Views, Query existing Schedules	Build a Schedule inside CSST		Prepare it for efficient de- confliction	Detect and resolve C/S similarities
Create view	Assembling Schedule Eg Upload Schedule File		Assigning Profile an airspace profile for each flight	Detect Potential overlaps, C/S conflicts
	Initialising Schedule Eg CFN> Flight Id			De-conflict manual or semi-manual
	Checking Schedule Eg duplicate flights			



AO Flow



- Schedule Management
 - 1. Create view.
- Build
 - **1.** Upload schedule into the view.
 - 2. Initialise.
 - 3. Quality Check.
- Prepare
 - 1. The tool associates an airspace profile, to each flight in the schedule. Profiles are obtained from profile catalogue.





View Management

https://www	w.nm.eurocontrol.	int/PORT	ALCSST/gatewa	y/spec/POF	RTAL.18.5.1.	.1.66/gwt-c	letached-view.jsp?_portal_context=/	/gateway/s	pec/PORTAL.18.	5.1.1.66:/PORTA	LCSST/gateway,
SSTool											
ew List											
Opera	ation Mode		~			Season	S15 🗸		Current State	•]
V	/iew Name					ANU Id			Creator		
Cre	ation Time				Vi	iew User					
2reate View	Details										
Name	Operation Mode	Season	Reference Date	State	ANU	Locked B	Description	Creator	Creation Time	Last Updated By	Last Update Time
S15 Pre	PRESEASONAL	S15	10/02/2015 00:00	PREPARED	FINAOCC	p19fin	Preliminary Analysis	p19fin	10/02/2015 13:09	p19fin	10/02/2015 13:0
SUN_SUM15	PRESEASONAL	S15		PREPARED	SXDAOCC	p1sxd		p1sxd	10/02/2015 09:02	p1sxd	10/02/2015 10:2
SU15 V3	PRESEASONAL	S15	08/02/2015 00:00	PREPARED	SWRAOCC	p11swr	SU15 WTT2 TRIAL WITH LESS ATC	p11swr	08/02/2015 11:21	p11swr	08/02/2015 11:2
SU15V2.1	PRESEASONAL	S15	07/02/2015 00:00	PREPARED	SWRAOCC	p11swr	SU15,WTT2, NEW TRIAL 1	p11swr	07/02/2015 20:44	p11swr	07/02/2015 20:4
SU15_01	PRESEASONAL	S15	07/02/2015	PREPARED	SWRAOCC	p11swr	SU15 WTT2	p11swr	07/02/2015	p11swr	07/02/2015 13:5





Create a Flight Schedule

6	View List - Mo	ozilla Firefox	-		10			Branch of	1110	6 m - M	1.00 -		x
Г	https://www	v.nm.eurocontrol.	int/PORT	ALCSST/gatewa	y/spec/POI	RTAL.18.5.1	.1.66/gwt-	detached-view.jsp?_portal_contex	t=/gateway/sp	pec/PORTAL.18.	5.1.1.66:/PORTA	LCSST/gateway/	☆
С	SSTool												>
v	'iew List												
Ľ	Opera	tion Mode		-			Season	S15 👻		Current State	•]	
١.	v	iew Name					ANU Id			Creator			
	Crea	ation Time				v	iew User					<u>(</u>	<u>G</u> o
	Create View	<u>D</u> etails											
	Name	Operation Mode	Season	Reference Date	State	ANU	Locked I	by Description	Creator	Creation Time	Last Updated By	Last Update Time	•
*	\$15Ver4	PRESEASUNAL	515	30/01/2015 00:00	PREPARED	SASAUCC	рпечоза	ej charter	p ne4639	30/01/2015 10:22	рпечозэ	30/01/2015 10.22	*
8	\$ S15 ALP	PRESEASONAL	S15		PREPARED	КККАОСС	p1og1		p1og1	28/01/2015 13:09	p1og1	28/01/2015 13:09	
\$	\$ S15 prep	PRESEASONAL	S15	28/01/2015 00:00	INITIAL	LGLAOCC	p7lgl504	preparation with first raw data	p7lgl504	28/01/2015 10:02	p7lgl504	28/01/2015 10:02	Ŧ
ŀ													



Checking a Schedule



SCSST	Workflow (/iew: test) - Mo	zilla Firefox			And in case of the local division of	-		
🔒 http	s://www.nr	n.eurocontrol.ir	nt/PORTALCSST/gateway/sp	ec/PORTAL.18.5.1.1.66/	gwt-detached-view.jsp?_porta	l_context=/gateway/spec/PORTAL	.18.5.1.1.66:/	PORTALCSST	ſ/gateway/ ☆
CSSTo	bl							6	NOP
Workfl	ow for Vi	ew: test						~	
	<u>G</u> o to CO	NFLICTS			State:PREPAR	ED Substate:CONFLICTS_DETECTED	<u>S</u> etups	Sc <u>h</u> edule	Download
	BUILD	PREPARE	DETECT/DECONFLICT						
	Assembl	ing Schedule	Initialising Schedule	Checking Schedule					
Quality ch	eck results								
Set	s of fligh	t duplicate	95						
> Set	s of fligh	its with the	e same commercial	flight designator	and overlapping peri	ods of operation			
► Flig	hts with	the same	Call sign (potential	duplicates)					
Inco	mpiete	nights Buing in th							
Flig	ht using	French ex	contion but not allo	how					
i ng	in using	TTERIOR EX	ception but not and	Wed					



Assign Flight Profile to a schedule



CSSTool Workflow for View <u>GotoCOM</u> BUILD	w: test FLICTS PREPARE										-	2 N	OP
Workflow for Viev <u>G</u> o to CONI BUILD	W: test FLICTS PREPARE												
<u>G</u> o to CON BUILD	FLICTS PREPARE												
BUILD	PREPARE								State:PREPARED Substate:C	ONFLICTS_DETECTED	Sc <u>h</u> edu	le <u>D</u> ov	vnload
		DETECT/DEC	ONFLI	СТ									
Assigning	Profile												
Your schedule is missing	g 21 profiles out	t of 1503:											
Part Name	Airline CFN	N Next CFN	AO	Flight id	ADEP-	ADES	From	То	Period of Operation: Start	Period of Operation: End	Days	EOBT	ETA
[VIEW] 2378	TP 152	27	TAP	1527	DGAA	FPST	ACC	TMS	25/12/2014	28/03/2015	246	06:05	07:55
[VIEW] 2378	TP 152	27	TAP	1527	DGAA	FPST	ACC	TMS	30/10/2014	27/11/2014	4	08:05	09:55 =
[VIEW] 2378	TP 152	27	TAP	1527	DGAA	FPST	ACC	TMS	28/10/2014	23/12/2014		06:15	08:05
[VIEW] 2378	TP 773	3	TAP	59M	ESGG	LPPT	GOT	LIS	27/10/2014	28/03/2015		14:20	18:15
[VIEW] 2378	TP 152	28	TAP	1528	FPST	DGAA	TMS	ACC	30/10/2014	27/11/2014	4	10:55	12:45
[VIEW] 2378	TP 152	28	TAP	1528	FPST	DGAA	TMS	ACC	25/12/2014	28/03/2015	246	08:55	10:45
[VIEW] 2378	TP 152	28	TAP	1528	FPST	DGAA	TMS	ACC	28/10/2014	23/12/2014		09:05	10:55 🔻





- NM Profile Catalogue: flown profiles of previous season. Approx 180.000 profiles.
- For a city pair and an aircraft type (turbo or jet) associate an airspace profile.
 - This is the most flown profile.
 - Flying duration in the airspace is an average of all flights using the given profile.
 - The airspace profile consists only of airspaces type AUA (TMA, CTA). But can be customised for example for London AUA.



CSST - Assigning a profile





- Profile most flown for city pair A-B : AUA1, AUA8, AUA4
- Airspace profile is a list of airspaces and its flying time
- Flying time i.e. in AUA8 = [duration (F3) + duration (F4) + duration (F5)]/3



AO Flow



• <u>DETECT</u>

1. The tool computes the potential overlaps.

- Result: Flights that overlap in space (aerodromes and airspaces) and time.
- 2. For the overlapping profiles, it computes Callsign conflicts by applying the Similarity Rules.
 - Results: Lists of 'flight' and 'entity' conflicts.
 - Two kinds of conflicts are detected.
 - Reference conflicts : conflicts with regard to the CSMC reference detection setups.
 - AO conflicts: conflicts with regards to user-relaxed or hardened setups.



CSST - Detect EUROCONTROL AUA 6 AUA 5 F3 AUA 7 F2 AUA 1 A AUA 8 F1 В AUA 2 AUA 4 AUA 3 Overlap in space C/S conflicts Overlap in time F1 and F2 in airspace AUA 8, AF 123 (F1)

F1 and F3 in aerodromes A, B

F2 and F3 in airspace AUA 6 Network Manager nominated by the European Commission F1 06:00 EOBT F2 06:30 EOBT F3 22:00 EOBT Potential conflict F1-F2 C/S conflicts AF 123 (F1) AF 213 (F2) Conflict F1-F2 identified

Customising CSS Tool Set-ups



SST Edit Setup (View: test) - Mozilla Firefox	
https://www.nm.eurocontrol.int/PORTALCSST/gateway/spec/PORTAL18.5.1.1.66/gwt-detached-view.jsp? portal context=/gateway/spec/PO	ORTAL.18.5.1.1.66:/PORTALCSST/gateway/
CSS Setup: S15 for View: test	
SEA SONS BUILD PREPARE DECONFLICT	
▼Global Setups	
▼ Environment Data	last updated: 08/01/2015 13:41:51 by: hoj
Aerodrome Map Active since: 26/10/2014 11:22:25 Till: until superseded by new upload AO Map Active since: 08/01/2015 13:41:51 Till: until superseded by new upload Aircraft type Map Active since: 05/09/2013 08:36:21 Till: until superseded by new upload	E
French Exception Information	last updated: 19/07/2014 10:08:21 by: sh
▼AO Setups	
▼ ATC AO designator	defaul
AO Allow override	
✓ Leading zeroes policy	defaul
Leading zeros policy	
CFN Suffix policy Call Sign Maps	defaul defaul
▼ View Setups	
ATC AO Designator	defaul
Leading zeroes policy	defaul
CFN suffix policy	detau) defaul





More Set-ups

CSST Edit Setup (View: test) - Mozilla Firefox	- 0 X
https://www.nm.eurocontrol.int/PORTALCSST/gateway/spec/PORTAL.18.5.1.1.66/gwt-detached-view.jsp?_portal_context=/gateway/spec/PORTAL.18.5.1.1.66:/PORTALCS	ST/gateway/ 🏠
CSS Setup: S15 for View: test	NOP
SEASONS BUILD PREPARE DECONFLICT	
► Global Setups ▼ AO Setups	
▼ Buffer times (in minutes)	default
Buffer times (in minutes) Location Minimum Default Maximum Aerodrome early departure GLOBAL 0 GLOBAL 10 GLOBAL 30 Aerodrome late departure GLOBAL 0 GLOBAL 40 GLOBAL 90 Airspace early departure GLOBAL 0 GLOBAL 10 GLOBAL 30 Airspace late departure GLOBAL 0 GLOBAL 10 GLOBAL 30 Airspace late departure GLOBAL 0 GLOBAL 40 GLOBAL 90	
► AO Similarity Rules	default
View Setups	



Similarity Rules Set-up



https://www.nm.eurocontrol.int/PORTALCSST/gateway/spec/PORTAL	L.18.5.1.1.66/gwt-detached-view.jsp?_port	tal_context=/gateway/s	pec/PO	RTAL.18.5.1.1.66:/PORTALCSST/ga	tewa
Setup: S15 for View: test				Se No	DF
SEASONS BUILD PREPARE DECONFLICT					
ilobal Setups					
 Similarity rule implementations 			1	last updated: 19/07/2014 10:08:21 b	y:s
Number Id	Description	Level	AO Vi	iew	
2700 TWO_CMM_DIGIT_IN_THREE_AND_LETTER 3000 PARA_TWO_VS_THREE_FIRST_AND_LAST_SYMBOL_IN_CMN 1100 COMBINATIONS_TO_AVOID 500 RUNWAY_VALUES 900 VHF 2800 THREE_VS_THREE_A_DIGIT_IN_CMN_AND_LETTER 2500 UNIOUE_NUMERIC_FLIGHT_ID 1600 ANAGRAMS 300 FLIGHT_LEVEL_VALUES 1200 LAST_DIGIT_0_OR_5 200 CFN_FORMATS 600 QNH_QFE_LOW 800 SQUAWK 100 ATC_FLIGHT_ID_FORMATS 2200 PARTIAL_ANAGRAMS 1900 DENTICAL_DIGIT_ROOTS 400 FLIGHT_HEADING_VALUES 2000 DENTICAL_BIGRAMS 1300 EQUALS_CFN 2100 DENTICAL_FLIGHT_ID 3100 TWO_LETTERS_ANAGRAM 2300 IDENTICAL_FLIGHT_ID 3100 TWO_LETTERS_ANAGRAM 2300 IDENTICAL_FLIGHT_ID 3100 TWO_LETTERS_ANAGRAM 2000 IDENTICAL_FLIGHT_ID 3100 TWO_LETTERS_ANAGRAM 2000 IDENTICAL_FLIGHT_ID 3100 TRIPLE_REPETITION 2900 LENGTH_FOUR_A_DIGITS 2000 ONE_CAN_DIGITS 1000 TRIPLE_REPETITION 2900 LENGTH_FOUR_A_DIGITS 2000 ONE_CAN_DIGIT_N_THREE_AND_LETTER 1800 PARALLEL_CHARACTERS 700 QNH_QFE_HIGH 2400 IDENTICAL_FLIGHT_IDS CSMC Similarity Rules Reference buffer times (in minutes) J Setups J Setups	enter description Length2 v 3 first and last symbol in common Combinations to avoid Runway values nn and L, C, R enter description Length3 v 3 1 digit 1 lettter in common Unique numeric Flight ID Anagrams Flight Level values enter description enter description ATC Flight ID Format Partial anagrams enter description enter description enter description Identical Bigrams enter description Identical Flight ID Two letter Anagram enter description enter description Triple Repetition Length 4 v 4 1 digit 1 letter in common Identical Final digits enter description Parallel Characters QNH-QFE High Identical Flight ID's	LEVEL2_OVERLAPPING LEVEL2_OVERLAPPING LEVEL1 LEVEL1 LEVEL1 LEVEL2_OVERLAPPING LEVEL2_OVERLAPPING LEVEL2_OVERLAPPING LEVEL1 LEVEL1 LEVEL1 LEVEL1 LEVEL1 LEVEL1 LEVEL2_OVERLAPPING	***************************************	last updated: 20/07/2014 11:47:49 by last updated: 19/07/2014 10:08:21 b last updated: 19/07/2014 10:08:21 b	y: n: y: s: y: s:



Schedule Query



🔮 CSST Que	ry Schedule	(View: te	est) - I	Mozilla Firefo	x		-		-	To other same	1000				×
https://v	www.nm.eur	ocontro	l.int/P	ORTALCSST	/gateway/sp	bec/PC	RTAL.1	8.5.1.1.	66/gv	vt-detached-view.jsp?_porta	I_context=/gateway/spec/P	ORTAL.18.	5.1.1.66:/P	ORTALCSST/gateway/	☆
CSSTool														-	
CSST Que	ry Schedu	ile for	Viev	v: test										Ę	-
Schedul Chunk Commercia Ad Designato Period o Operation ICAO ADE IATL AircraftTyp Search	e ALL ▼ s ALL ▼ al or r P P Qreate			IAT Aircr	CFN and Suffix 117 TA ADEP ICAO raftType					Next CFN and Suffix Days of 2 2 3 4 ICAO ADES	ATC AO Designator 5 6 7 between IATA ADES			ATC Flight Id ETA between	
Selec <u>t</u> All	Cle <u>a</u> r All	Delete	e												
	Part Name	Airline	CFN	Next CFN A	0 Flight id	ADEP	ADES	From	То	Period of Operation: Start	Period of Operation: End	Days EOB	T ETA		- 1
UPDATE]	2378	ТР	117	TA	AP 64H	LPPT	SBPA	LIS	POA	27/10/2014	28/03/2015	11:	30 22:50		
UPDATE]	2378	ТР	117	TA	AP 64H	LPPT	SBPA	LIS	POA	27/10/2014	28/03/2015	11:	30 22:50		
UPDATE]	2378	тр	117	TA	AP 64H	LPPT	SBPA	LIS	POA	27/10/2014	28/03/2015	11:	30 22:50		
UPDATE]	2378	ТР	117	TA	AP 64H	LPPT	SBPA	LIS	POA	27/10/2014	28/03/2015	11:	30 22:50		_
•															- F



Conflict List



) CSS	Decon	flict (Vi	w: test) - I	Mozilla Fir	refox	-		-	-	_	-		-									
A htt	tps://w	ww.nm	eurocontr	ol.int/POF	RTALC	SST/gate	way/spec/P	ORTAL.18.5	1.1.66/gwt-d	etached-view.	jsp?_porta	al_context=	/gate	eway/spec/f	PORTAL.18.5.1	.1.66:/PORT/	ALCSST/ga	nteway/sp	pec/PORTA	L.18.5.1.	1.66:RES:142	361280 🏠
) • Qu	erv (Confli	cts Go																			
+ Co	nflic	ts Ov	erview																			
▼ Lis	st Are	ea										1383/13	83 un	resolved fl	ight reference	s 1383/13	83 unresol	ved fligh	its 1383/	1383 <i>un</i> j	processed fl	ights
		Refere	nce Detec	tion confl	icts	Dete	ction conflic	ts														
		Flights	Conflic	t Pairs																		
Flig	ht List		Clickto																			
S	elect A		ear All	Multiple S	electio	n Mode	Modify ATC	flight id 🛛	Modify ATC f	light id format	Chan	ge actions	N	o Change	Same id set	t Overlap	s Undo	CEN/ATC	flight id c	handes		
	1	3	6		9		12	15	18	21	24	27		30	33	36	39		42	45	48	49
	·			_																		<u> </u>
	A	CF	I Fligh	nt Id Al	DEP	ADES	EOBT	ETA 21:50	CH ARC	From 26/10/14	2	0		#Days	Days 62	SID Nb	C V HCP	Prio	Refprio		DC PR	
	TA	P 837	837	LIR	F	LPPT	05:20	08:30	A320	26/10/14	2	8/03/15			49	2	4 1	4	4		27 🗸	
	TA	P 132	2 1322	LHI	BP	LPPT	14:40	18:35	A320	29/10/14	1	8/03/15			10 3	2	5 1	5	5		44 🗸	
	TA	P 353	8 3538	LPF	ч	LSGG	06:50	09:15	A319	22/12/14	2	2/12/14			1 1	3	5 1	5	5		5 🗸	
	TA	P 190	2 1902	LPF	FR	LPPT	16:50	17:35	A319	26/10/14	2	3/03/15		1	18	5	5 1	5	5		154 🖌	
	TA	P 131	5 1315	LHI	BP	LPPT	18:35	22:30	A320	27/10/14	2	3/03/15			16 1	2	5 1	5	5		44 🗸	
	TA	P 453	453	LFF	20	LPPR	13:35	15:45	BER4	26/10/14	2	3/03/15		1	51	1	51	5	5		324 🗸	
	TA	P 352	4 3524	LPH	R	LSZH	11:10	13:45	A319	03/01/15	0	3/01/15			1 6	1	51	5	5		5	
	ТА	P 148	1 1481	LPF	т	GOOY	21.55	23.55	A315	26/10/14	2	8/03/15		1	50	2	51	5	5		24	
	10	140	1 1401	LIT		0001	20.00	01.00	A321	20/10/14	2	200710			50	2	51	9	J		27	
Cor	Select	for Sele	cted Flight	Conflict		San	ne	Low	No sector	in	No Solu	tion		Change Res	tricted	No Solu	tion	Chang	e Restrict	ed	Conflict	
	All	1	u	Subset		airc	rait	TISK	common		Mariuai			wanuai		Auto		Auto			Details	
	Targe	t Flight	Flight 1	Flight	t 2 🔰	Modify A	TC flight id	Modify A	FC flight id fo	ormat Chan	ige actior	s No Cl	hange	e Same i	id set Fligh	t Overlaps	Undo Cl	N/ATC fli	ight id chai	iges		
	CI	S P	rio Qual	AO C	FN FI	ight IdAD	EP ADES	EOBT	AO CFN	Flight IdADEP	ADES	EOBT	A	Ch	From	То	#Day	s Days	SID ND C	: Prio	RefPrio	DC
	S	U 1	U	TAP 76	61 761	ENG	M LPPT 1	7:40 21:50	TAP 766	766 LPPT	ENGM	2:50 16:5	5	A320	26/10/14	26/03/15	62		1 1	1	1	62
	S S	U 1	0	TAP 76	1 761	ENG ENG	M LPPT 1 M LPPT 1	7:40 21:50	TAP 764	764 LPPT 754 EKCH	I PPT	19:05 23:1 17:20 21:1	0	A320 A321	26/10/14	27/03/15	1		3 4 37 10	4	4	210
	S	U 1	U	TAP 76	1 761	ENG	M LPPT 1	7:40 21:50	TAP 751	751 EKCH	LPPT	17:20 21:1	0	A320	26/10/14	27/03/15	61		3 10	10	10	210





New button 'Go To Conflicts' will fast track to conflicts list.

flow f	for View	demo							אכ
		Go to CON	FLICTS			State:INITIAL Substate:INITIAL_BLANK	ups Sche	dule Dowr	load
BUI	ILD PR	REPARE	DETECT/DECON	IFLICT		-	-		
Ass	sembling S	Schedule	Initialising Sc	hedule	Checking Schedule				
ad Sche	edule File								
									~
								J	2.
CSS	Tool							-	
No.	defilment finn	Minut day						2	N
	KIIOW TOP	view. del	mo					-	
worr			ICTO			State:PREPARED Substate:CONFLICTS_DETECTED	<u>S</u> etups	Schedule	Dowr
WOR	Got	to CONFL							
wor	Go t BUILD	PREPA	RE DETEC	T/DECONFL	ICT				
Re-I	Go t BUILD	PREPA	RE DETEC	TIDECONFL	ICT				





New button 'Go To Conflicts' will fast track to conflicts list.

fliet Lie																			~ .
INICE LIS	st for	View: demo	(GLOBAL	-)															
Query C	onfli	cts Go																	
Conflicts	s Ove	erview																	
Reporting:): Flight	ts with conflicts												Repo	rting: Con	flicts			
Conflict cl	lass				Reference D	etection De	etectio	n (unreso	olved/total)					Con	lict Qualifi	ication	# (conflicts	
FLIGHT_CC	ONFLICT	T_OVERLAPPING	FLIGHTS_C	ROSS_AO	0/0	0.	/0							UNPF	ROCESSED			381	
FLIGHT_CC	ONFLICT	T_OVERLAPPING	FLIGHTS_S	INGLE_AO	0 / 465	0	/ 465							SAM	E_AIRCRAF	т		14	
ENTITY_CC	ONFLICT	Ţ			0/30	0	/ 30							NO_S	SECTOR_IN	_COMMON		0	
														DESE	LECTED			0	
														LOW	RISK			0	
														NO_S	SOLUTION_	MANUAL		Ő	
														CHA	NGE_RESTR	RICTED_MANU	UAL	0	
														NO_S	SOLUTION_	AUTO		0	
														CHA	VGE_REST	RICTED_AUTO	2	U	
ist Area	а										481/481	unresolved	flight refere	nces	481/481 un.	resolved flid	ghts	465/465 #	Inprocessed
Incident contraction						1													
-light Liet	Flights	s Conflict Pai	rs	Detect	ion conflicts														
Flight List ✔ Filter out Select Al	Flights t t Relate	Conflict Pai ed Flights Tear All Mult	rs	Mode M	ion conflicts odify ATC flig	ht id Mo	odify Al	IC flight i	d format	Change action	s No Ch	lange Sai	ne id set	Overlap	s Undo	CFIL/ATC flig	ght id (changes	
Flight List Fliter ou Select Al	Flights t at Relate	conflict Pai ed Flights clear All Mult	rs iple Selection	Detect	odify ATC flig	htid Mo	odify Al	FC flight i 18	d format	Change action	s No Ch	ange Sar 28	ne id set	Overlap 32	s Undo	CFIL/ATC fli	ght id (38	changes 40	42
Flight List Filter ou Select Al	Flights t tt Relate	Conflict Pai ed Flights lear All Mult 4 6 1 1	rs iple Selection 8 1	Detect	odify ATC flig	htid Mo 14 I	odify A1 16 1	IC flight i	d format 20 I	Change action 22 24 1 1	s No Ch 26 I	ange Sar 28 I	ne id set 30 	Overlap 32 I	s Undo 34 I	CFILATC flie 36 1	ght id (38 1	changes 40 I	42
Flight List Filter ou Select A	Flights t tt Relate	Conflict Pai ed Flights lear All Mult 4 6 1 1	iple Selection	Detect	odify ATC flig	ihtid Mo 14 I	16 I CH	18 18 1 ARCT	d format 20 I From	Change action 22 24 I I To	s 11o Ch 26 1	ange Sar 28 1 Days	ne id set 30 I Week Days	Overlap 32 I	s Undo 34 I SID NB	CFILATC flie 36 1 C HCP	ght id (38 1	thanges 40 1	42 DC PR
light List Filter ou Select A	Flights t tRelate All C 2 1 0 C 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Conflict Pai ed Flights Clear All Mult 4 6 1 1 2FN Flight Ic 548 5548	iple Selection	Detect	odify ATC flig	Int id Mo 14 1 ETA 16:45	16 1 CH	IC flight i	d format 20 1 From 03/06/13 02/06/13	Change action 22 24 1 1 28/10/ 28/10/	s Ho Ch 26 1	ange Sar 28 Days 14	ne id set 30 i Week Days 5	Overlap 32 I	s Undo 34 1 SID Nt	CFILATC file 36 1 5 C HCP 9 1	ght id (38 1 9	thanges 40 1 9 9	42 1 DC PR 54 •
light List Filter ou Select A	Flights t t.t.Relate All C 2 1 0 C 6 55 6 19 6 29	Conflict Pai ed Flights (lear All Mult 4 6 1 1 CEN Flight Ic 548 55-18 904 1904 903 2002	iple Selection	Detect	odify ATC flig 12 1 EOBT 13:10 04:05 17:20	Int id Mo 14 1 ETA 16:45 07:25 20:35	16 1 5 A 5 A 5 A	IC flight in 18	d format 20 1 From 03/06/13 06/06/13 07/06/13	Change action 22 24 1 1 To 28/10/ 24/10/ 24/10/	5 No Cl: 26 1 3 3 3	ange Sar 28 1 Days 14 20	ne id set 30 1 Week Days 5 1 2	Overlap 32 I	s Undo 34 1 SID Nt 3 1 2	CFILATC file 36 1 5 C HCP 9 1 8 1 8 1	ght id (38 1 9 8 6	40 1 9 8 8 8	42 1 DC PR 54 ¥ 143 ¥
light List Filter ou Select A	Flights t tt Relate 2 1 0 C 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Conflict Pai ed Flights lear All ☐ Mult 4 6 1 1 2FN Flight Ic 548 5548 904 1994 903 2903	iple Selection	Detect	odify ATC flig 12 1 EOBT 13:10 04:05 17:20 16:55	ht id Ma 14 1 16:45 07:25 20:35 21:20	16 1 5 A 5 A 5 A 5 A	C flight in 18 1 ARCT 8753 8753 8753 8753	20 1 From 03/06/13 06/06/13 07/06/13 07/06/13	Change action 22 24 1 1 To 28/10/ 24/10/ 25/10/ 25/10/	26 I to Ct: 26 I	28 28 1 Days 14 20 14 20 14	ne id set 30 i Week Days 5 1 2 2	Overlap 32 I	s Undo 34 1 3 1 2 1	CFILATC 11/ 36 1 5 C HCP 9 1 8 1 6 1 5 1	ght id (38 1 9 8 6 5	thanges 40 1 9 8 6 5	42 1 54 • 143 • 46 •
Iight List Filter ou Select A	Flights t tt Relate 1 0 C 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Conflict Pai ed Flights lear All Mult 4 6 1 1 2FN Flight Ic 548 5548 904 1994 903 2993 973 2973 893 2693	rs iple Selection B EDDL EDDL EDDF LTAI GCFV LTAI	Detect	odify ATC flig 12 1 EOBT 13:10 04:05 17:20 16:55 17:10	ETA 14 16:45 07:25 20:35 21:20 20:56	16 1 5 A 5 A 5 A 5 A 5 A 0 A	18 18 1 8753 8753 8753 8753 8753 8753	20 1 20 03/06/13 05/06/13 07/06/13 07/06/13 07/06/13	Change action 22 24 I I 28/10/ 28/10/ 25/10/ 25/10/ 25/10/ 25/10/	26 110 Ch 26 1 3 3 3 3 3 3 3 3 3	28 1 0ays 14 20 14 20 14 20 14 20 14	ne id set 30 1 Week Days 5 1 2 2 2	Overlap 32 1	s Undo 34 1 SID NE 3 1 2 1	CFILATC file 36 1 5 C HCP 9 1 8 1 6 1 5 1	ght id 38 1 9 8 6 5 5 5	40 1 9 8 6 5 5 5	42 I DC PP 54 ¥ 143 ¥ 46 ¥ 65 ¥
light List	Flights t.t.Relate 2 1 0 C 5 6 55 6 19 7 6 29 7 6 29 7 7 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7	Conflict Pai ed Flights (lear All Mult 4 6 1 1 CFN Flight Ic 548 5548 904 1904 903 2903 973 2973 593 2693 843 4843	rs iple Selection B i DDF LTAI GCFV LTAI	Detect	odify ATC flig 12 1 EOBT 13:10 04:05 17:20 16:55 17:10 07:10	ht id Mo 14 1 16:45 07:25 20:35 21:20 20:50 11:05	16 1 5 A 5 A 5 A 0 A 0 A 5 A	C flight i 18 1 8 7 8 7 5 8 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 7 7 8 7 7 7 7 7 7 7 7 7 7 7 7 7	d format 20 1 33/06/13 06/06/13 07/06/13 07/06/13 07/06/13 02/06/13	Change action 22 244 1 28700 28700 25700 25700 277100	 Ho Cl: 26 1 3 3 3 3 3 3 3 	28 28 1 0ays 14 20 14 20 19 21	Week Days 5 1 2 2 2 4	Overlap 32 I	s Undo 34 1 510 NB 3 1 2 1 1 1	CFILATC file 36 1 9 1 8 1 6 1 5 1 5 1	ght id 4 38 1 9 8 6 5 5 5 5 5 5	40 1 9 8 6 5 5 5 5 5	42 1 54 ~ 143 ~ 46 ~ 53 ~
Iight List	Flights t.t.Relate 2 1 0 C 5 6 55 6 19 7 6 29 7 6 29 7 7 6 29 7 7 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7	Conflict Pai ed Flights clear All ☐ Mult 4 6 1 1 CFN Flight Ic 548 5548 904 1904 903 2903 973 2973 893 2693 843 4843 396 5096	rs s iple Selection B EDDL EDDL EDDL ITAI GCFV LTAI EDDM	Detect	odify ATC flig 12 1 EOBT 13:10 04:05 17:20 16:55 17:10 07:10 04:00	ETA ETA ETA 16:45 07:25 20:55 21:20 20:50 11:05 06:20	16 1 5 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	C flight i 18 1 8 1 8 7 5 3 8 7 5 7 5 8 7 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 7 7 7 8 7 7 7 8 7 7 7 8 7 7 7 8 7 7 7 7 7 7 7 7 7 7 7 7 7	d format 20 1 20 20 20 20 20 20 20 20 20 20	Change action 22 24 1 1 28/10/ 24/10/ 25/10/ 25/10/ 25/10/ 25/10/ 25/10/ 26/	3 110 Ch 266 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	28 28 1 0ays 14 20 14 20 19 21 16	Week Days 5 1 2 2 2 2 4 5	Overlap 32 I	s Undo 34 1 510 NB 3 1 2 1 1 1 1 2	CFILATC file 36 1 5 C HCP 9 1 8 1 6 1 5 1 5 1 5 1 5 1	ght id (38 1 9 8 6 5 5 5 5 5 5 5 5	thanges 40 9 8 6 5 5 5 5 5 5	42 1 54 - PR 54 - 4 143 - 4 65 - 5 53 - 4 0 - 3 31 - 3
ight List ✓ Filter our Select A 1 CFC CFC CFC CFC CFC CFC CFC	Control Control 2 1 2 1 3 3 3 5 3 6 3 5 3 6 3 5 3 6 3 5 3 6 3 6 3 6 3 6 3 6 3 6 3 6 3 6 3 6 3 6 3 6 3 6 3 6 3 6 3 7 3 7	Conflict Pai ed Flights itear All ☐ Mult 4 6 1 1 2FN Flight Ic 548 5548 904 1904 903 2903 973 2973 893 2693 843 4843 096 5996 706 5706	rs s iple Selection EDDL EDDL LTAI GCFV LTAI LTAI EDDH	Detect	odify ATC flig 12 1 EOBT 13:10 04:05 17:20 16:55 17:10 07:10 04:00 04:15	Init id Mod 14 1 16:45 07:25 20:35 21:20 20:50 11:05 06:52 06:55	16 1 5 A 5 A 5 A 0 A 0 A 5 A 0 A 5 A 0 A 5 A	C flight i 18 1 8753 8753 8753 8753 8753 8753 8753 8753 8753 8753	d format 20 1 5706/13 05/06/13 07/06/13 07/06/13 02/06/13 03/06/13 03/06/13 03/06/13	Change action 22 24 1 1 28/10/ 25/10/ 25/10/ 25/10/ 25/10/ 25/10/ 28/10/ 28/10/	 No Cl: 26 3 4 5 7 <li7< li=""> 7<td>28 28 1 Days 14 20 14 20 14 20 19 21 16 14</td><td>ne id set 30 1 Week Days 5 1 2 2 2 2 4 5 5 5</td><td>Overlap 32 I</td><td>s Undo 34 1 3 1 2 1 1 1 2 3</td><td>CFILATC flip 36 1 9 1 8 1 8 1 8 1 5 1 5 1 5 1 5 1 5 1</td><td>ght id (38 1 9 8 6 5 5 5 5 5 5 5 5 5 5 5 5 5</td><td>thanges 40 1 9 8 6 5 5 5 5 5 5 5 5 5 5</td><td>42 1 54 • 143 • 46 • 53 • 40 • 31 •</td></li7<>	28 28 1 Days 14 20 14 20 14 20 19 21 16 14	ne id set 30 1 Week Days 5 1 2 2 2 2 4 5 5 5	Overlap 32 I	s Undo 34 1 3 1 2 1 1 1 2 3	CFILATC flip 36 1 9 1 8 1 8 1 8 1 5 1 5 1 5 1 5 1 5 1	ght id (38 1 9 8 6 5 5 5 5 5 5 5 5 5 5 5 5 5	thanges 40 1 9 8 6 5 5 5 5 5 5 5 5 5 5	42 1 54 • 143 • 46 • 53 • 40 • 31 •
Tight List Filter our Select A 1 CFC CFC CFC CFC CFC CFC CFC	Control Control 2 1 2 1 3 6 3 6 3 7 3 7 3 7 3 7 3 7 4 7 5 7 5 7 5 7 5 7 5 7 5 7 6 5 7 7 7 7	Conflict Pai ed Flights tear All	rs iple Selection B DDL EDDL EDDF LTAI LTAI EDDH EDDH EDDF LTAI EDDH EDDH EDDF LTAI	Detect	odify ATC flig 12 1 13:10 04:05 17:20 16:55 17:10 04:05 17:10 04:00 04:00 04:05 13:30	Id Mo 14 16:45 16:45 07:25 20:35 21:20 20:50 11:05 06:55 23:30	16 1 5 A 5 A 5 A 0 A 5 A 0 A 5 A 0 A 5 A 0 A 5 A 0 A	ARCT 8753 8753 8753 8753 8753 8753 8753 8753	d format 20 1 From 03/06/13 05/06/13 07/06/13 07/06/13 07/06/13 02/06/13 02/06/13 03/06/13 03/06/13 03/06/13 03/06/13	Change action 22 24 1 1 28/10/ 24/10/ 25/10/ 25/10/ 25/10/ 25/10/ 28/10/	 Ho Ch 26 1 3 4 4<!--</td--><td>28 28 1 Days 14 20 14 20 14 20 19 21 16 14 21</td><td>ne id set 30 1 Week Days 5 1 2 2 2 2 2 2 4 5 5 5 5</td><td>Overlap 32 1</td><td>s Undo 34 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</td><td>CFIL/ATC 11/ 36 1 5 C HCP 9 1 8 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1</td><td>ght id 4 38 1 9 8 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5</td><td>40 1 9 8 6 5 5 5 5 5 5 5 5 5 5 5</td><td>42 1 54 46 53 40 53 40 31 22 42</td>	28 28 1 Days 14 20 14 20 14 20 19 21 16 14 21	ne id set 30 1 Week Days 5 1 2 2 2 2 2 2 4 5 5 5 5	Overlap 32 1	s Undo 34 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CFIL/ATC 11/ 36 1 5 C HCP 9 1 8 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1	ght id 4 38 1 9 8 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	40 1 9 8 6 5 5 5 5 5 5 5 5 5 5 5	42 1 54 46 53 40 53 40 31 22 42
ight List	Flights t. t. Relate UI C C C C C C C C C C C C C C C C C C C	Conflict Pai ed Flights lear All Mult 4 6 1 1 2FN Flight Ic 2548 5548 904 1904 903 2903 973 2973 893 2693 843 4843 096 5096 706 5706 248 5248 907 1907	rs iple Selection B EDDL EDDF LTAI GCFV LTAI EDDM EDDM EDDF LTAI	Detect	odify ATC flig 12 1 EOBT 13:10 04:05 17:20 16:55 17:10 07:10 04:05 13:30 07:30	It id Mo 14 1 ETA 16:45 07:25 20:35 21:20 20:50 20:50 10:05 06:52 23:30 21:11:10 23:30	Odify A1 16 1 5 6 5 6 7 6 7 8 10 10 10 10 10 10 10 10 10 10 10 10	ARCT 8753 8754 A320	20 1 20 20 23/06/13 05/06/13 07/06/13 07/06/13 03/06/13 03/06/13 03/06/13 03/06/13	Change action 22 24 I I 28/10/ 24/10/ 25/10/ 25/10/ 25/10/ 25/10/ 25/10/ 25/10/ 28/10/ 28/10/ 28/10/ 28/10/ 28/10/ 28/10/	26 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	28 1 28 14 20 14 20 14 20 14 21 16 14 21 16 14 21 20	ne id set 30 1 Week Days 5 1 2 2 2 4 5 5 1 1	Overlap 32 1	s Undo 34 1 3 1 2 1 1 1 2 3 1 1 1 1 2 3 1 1	CFILATC 11/ 36 1 5 C HCP 9 1 8 1 6 1 5	ght id a 38 1 1 8 8 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	40 1 9 8 6 5 5 5 5 5 5 5 5 5 5 5 5 5	42 DC PF 54 • 143 • 46 • 53 • 53 • 53 • 40 • 31 • 31 • 31 • 22 • 90 •



AO Flow



DE-CONFLICT

- 1. The Flight lds are modified to resolve/improve the conflict.
 - Manually or
 - Semi-manually: The Tool proposes some ATC Flight Ids and lets the user select.
 - Automatic: The tool automatically de-conflicts the schedule.



De-conflict Solution Area



😂 CSS Deconflict (View: test) - Mozilla Firefox
https://www.nm.eurocontrol.int/PORTALCSST/gateway/spec/PORTAL.18.5.1.1.66/gwt-detached-view.jsp?_portal_context=/gateway/spec/PORTAL.18.5.1.1.66:/PORT
CSSTool
Conflict List for View: test (TENTATIVE_MANUAL)
▼ Solution Area
C Manual Solution: Solution Go
Semi-Manual solution: CFN 761 ATC Flight Id 761 Go
Semi-Manual and automatic deconfliction: solution settings
Add
Priority ATC Format Range Start Range End Retain from CFN or ATC flight Id (use "=" in range) Apply to CFN/ATC flight id with length
Image: Ward of the second s
Transformation Rule Remove first character -
Vo leading zeroes
► List Area



No solutions found



- Possible actions when no solution is found
 - Try to change the other flight
 - If possible, and not done yet
 - Extend search space for C/S
 - Try other C/S ranges
 - Allow more C/S format
 - (Remove link with CFN) if any
 - Reduce "conflicts" with other flights
 - Dropping / De-selecting some "minor" similarity rules
 - Reducing buffer time parameters
 - (Note: A priori De-confliction uses the same rules/parameters as for Conflict Detection)
 - Accept the situation
 - Disregard the conflict



De-confliction – which flight



- Processing a <u>Level A</u> conflict: which flight to change
 - Not the one with No_change indicator set
 - Not the one subject to ANSP constraint « C/S = CFN »
 - Not the one with over flight permission (preferably)
 - Not the one with airport restrictions (preferably)
- Heuristics
 - The one with the most conflicts (as will eliminate more conflicts)
 - The one with the least frequency in the schedule (operating days)
 - → Least impact on the schedule
 - The most recent one (the newest city pair in schedule)
 - The second one in FIR (First come First served)
 - Medium-Haul, then Long-Haul, then Domestic
 - Some indicates L-H as last to be changed
 - What when both same type? E.g. M-H, M-H?



De-confliction Results



CSS Deconflict (View: test) - Mozilla Firefox																								
https://www.nm.eurocontrol.int/PORTALCSST/gateway/spec/PORTAL18.5.1.1.66/gwt-detached-view.jsp?_portal_context=/gateway/spec/PORTAL.18.5.1.1.66:/PORTALCSST/gateway/spec/PORTAL.18.5.1.1.66:RES:142361280																								
Reference Detection connicts																								
		F	lights	Conflict Pa	airs																			
Flight List																								
~	Filte	er out H	Related Flig	ghts																				
-	Select All Clear All Multiple Selection Mode Modify ATC flight id Modify ATC flight id format Change actions No Change Same id set Overlaps Undo CFN/ATC flight id changes																							
	1		3	6	9	1	12	15	1	8	21		24	27		30	33	36	39	42	>	45	4	8 49
	1		1	- I	1		1	1						1		1			1	1	-	1	1	i i
									_			_			_									
		AO	CFN	Flight Id	ADEP	ADES	EOBT	ETA	СН	ARCT	From		То		#Day	/S	Days	SID Nb	С 🗕 НСР	Prio	Refprio		DC PR	
1		TAP	761	18K	ENGM	LPPT	17:40	21:50		A320	26/10/14	ł	26/03/15			62		1	0 0	0	0		0 🗸	
		TAP	766	766	LPPT	ENGM	12:50	16:55		A320	26/10/14	ļ	26/03/15			62		1	0 0	0	0		0 🗸	
		TAP	9318	9318	ELLX	LPPT	20:25	23:10		B100	03/01/15	5	03/01/15			1	6	1	1 1	1	1		1 🗸	
		TAP	2357	2357	LPPT	LPMA	22:30	00:15		A319	03/01/15	i i	03/01/15			1	6	2	1 1	1	1		1 🗸	
		TAP	2506	2506	SBRF	LPPT	01:40	09:15		A310	26/10/14	Ļ	26/10/14			1	7	1	1 1	1	1		1 🗸	
		TAP	1265	1265	EPWA	LPPT	18:45	23:05		A319	04/11/14		04/11/14			1	2	1	1 1	1	1		1 🗸	
		TAP	2926	2926	ESSA	LPPT	15:20	19:50		A320	25/12/14	ł	01/01/15			2	4	1	1 1	1	1		2 🗸	
		TAP	773	773	ESGG	LPPT	14:20	18:15		A320	27/10/14	ł.	28/03/15			86		1	1 1	1	1		86	
		TAP	289	289	LPPT	FNLU	23:25	07:05		A343	26/10/14	ł.	28/03/15			154	1234567	1	1 1	1	1		44 🗸	
		TAP	2951	2951	LIRF	LPPT	20:55	00:05		A319	08/11/14		08/11/14			1	6	1	1 1	1	1		1 🗸	
			0.1	d Flinks																				
Co	ntil	CTS TO	r Selecte	a Flight																				_
	Se All	elect I	Clea All	r Co Su	onflict Ibset	Sa	ime rcraft	Low risk	No	o sector	rin		No Solution Manual		Cha Man	nge Res ual	stricted	No Solut Auto	ion	Change I Auto	Restricte	d	Conflic Details	t
	Та	irget F	light 🍥	Flight 1) Flight 2	Modify	ATC flight id	Modify	ATC fli	ght id f	ormat	Chang	ge actions	No Cha	inge	Same	id set Flig	ht Overlaps	Undo CF	N/ATC fligh	nt id chan	ges		
		CI S	Pri <u>o</u>	Qual	AO CFN	Flight IdA	DEP ADES	EOBT ET	ΓΑ Α	O CFN	Flight Id4	ADEP	ADES EOE	T ETA	Ch	ARCT	From	То	#Days	s Days S	SID Nb <u>C</u>	Prio	RefPric	D <u>C</u>
	S	R R	0	R T	AP 761 1	8K FN	GM LPPT	17:40 21	50 TA	P 751	35H FK	КСН	LPPT 17:20	21:10		A321	08/02/15	08/02/15	1	37	0	0	0	0
	S	R	0	R T	AP 761 1	ISK EN	GM LPPT	17:40 21:	50 TA	P 751	35H EM	(CH	LPPT 17:20	21:10		A320	26/10/14	27/03/15	61	3	0	0	0	0
	s	S R	0	RT	AP 761 1	8K EN	GM LPPT	17:40 21:	50 TA	P 766	766 LF	PPT	ENGM 12:50	16:55		A320	26/10/14	26/03/15	62	1	0	0	0	0
	S	R	0	R T	AP 761 1	8K EN	GM LPPT	17:40 21:	50 TA	P 764	76N LF	PPT	ENGM 19:05	23:10		A320	26/10/14	27/03/15	62	3	0	0	0	0
	2																			Ū	-			



CSS Tool - Wrap-Up



- Easily accessible via NOP Portal.
- Rich 'city pair' profile catalogue full ECAC coverage.
- Worldwide aerodrome detection.
- Full automatic ; semi-manual or manual .
- Highly configurable.





- Centralised service, managed and maintained by CSMC (EUROCONTROL).
- Uses CSS UG agreed set of call sign similarity rules.
- Cross AO 'Sanity Check' performed by CSMC
- Economies of scale.
- Implements the safety objective anticipated 75% reduction in similarities.







- Access using NM token id enabled for CSST (free for existing tokens)
- NM Service Request Form at:

http://www.eurocontrol.int/network-operations/access-service-requestform

 Stand alone url at: <u>https://www.nm.eurocontrol.int/PORTALCSST/gateway/spec/index.h</u> <u>tml</u>



Table of Contents	🕻 🚍 📅 🎲 🥥 😓 🏫 Go To: 🛷 🔧 📅 🏋	
 Disclaimer Changes and Updates Network Manager The Portal Header Portlets and Detached Views Portlets from A to Z 	NOP Portal - Help CSST See Also Send Feedback Portlets from A to Z > CSST Typical Scope: RES	On Line Help
 Access Request ACC Info AIM Airport Info 	CSST is all about de-conflicting flight schedules. A flight schedule describes the flig Access to the CSST Portlet is restricted by security profile. This section may t	ghts that an aircraft operator intends to implement in a seaso herefore not concern you.
 Airspace Data Airspace Structure ANM ATFCM Daily Plan ATFCM Events ATFCM Network Situation ATFCM Situation Data ATFCM Scenarios Calendar Contingency CSST DMEAN Best Practices EAD EAD E - conference E - Helpdesk Events and Meetings F A Q Flights Flight Planning Main Reports Measures Network Headline News 	Accessing the CSST The URL to the CSST is https://www.cfmu.eurocontrol.int/PORTALCSST/gateway/spec/index.html Enter your UserName and Passcode, then select the csmc_role in the SATI dom Go next to the Resource Tab. This is how the CCST Porlet looks like: CSST Call Sign Similarity Tool Connect Lastly, click on the Connect button to access the CSST. You may be prompted to Reconnect or Cancel - in cas there a session was When successfully (re)connected, this is what the Porlet looks like, allowing you th Disconnect Setup Management View Management Setup Management View Management >	<section-header><section-header><section-header><section-header><text><text><text></text></text></text></section-header></section-header></section-header></section-header>
 ? Network Operations Strategic ? Network Operations Weather 	□ See Also	User Guide

CSST User Manual /Web based help

 User Manual updated and online at the public website:

http://www.eurocontrol.int/lists/publication s/network-operationslibrary?type=3320&keyword

Web based help at:

https://www.public.nm.eurocontrol.int/PU BPORTAL/gateway/spec/index.html (Workflow description Portlets and animated case studies)





