

Customer Partnership Group New ADS Demo April 2020

Important Change: Participation details have been updated Dial: 877-369-5230; Access code: 0963633## Join web conference: <u>https://ems8.intellor.com/login/825045</u>

Akm Ferdous Business Solution Manager IT Product Management

Agenda

- New ADS Technology and Functional changes.
- Present the new ADS look & feel.
- Upcoming Enhancements, Events and Timelines.



Technology changes

- Following Technology changes as per the posted external BRS will be soon ready in Mapstage:
 - Transition to web-based user interface to eliminate the need to install thick client.
 - The browsers we intend to support are Chrome and Edge with Chromium.
 - Transition ADS provisioning to the Access and Identity Management (AIM) application including resource level access control via self provisioning.



Functional Changes

- Following functional changes will be soon ready in Mapstage :
 - Allow Participants to view for Operator Messages.
 - Eliminate duplicate ED entries in the 'Instructions' tab.
- Not in scope for today's demo: All other functional changes as part of the posted external will be delivered in a later code drop:
 - Display FMM Energy Schedule.
 - Unannounced A/S tests and Unit Comment during RTCD.
 - Display 5 & 15 Minute Flex Ramp Awards (FRU/FRD).
 - Changes to instruction display to include the following:
 - Previous Supp: similar to RT Prev DOT, will show last binding Supp.
 - RT Sup Delta: similar to RT DOT Delta, will show difference between RT Supp. Energy and Previous Supp.



Landing page: Look & feel subject to change

	OT Hourty DOT	Exception	al Comm	nitment	RTAS	Hourly AS	Systen	n Messag	ges Query	Tool Configura	tions								
Current Interval 09:30-0		Active		-09:45	09:30-09:45	09:00-10:00	04/06/202	20 09:31:0	13	Received new 5 Minu	te DOT batch DISP-E	E70FDF0-5A51-403	8-8A00-AC18024	D23D4					
Dispatch Interval 09:35-0		08:45:00		-10:15	10:00-10:15	10:00-11:00	04/06/202	20 09:29:0)3	Received new Real 1	ime AS batch DISP-A	6B6B7C0-5A51-4038	3-8A00-AC18024	023D4					
Received/Status 09:31	03 08:56:31	08:41:03	09:2	9:01	09:29:03	08:56:35	04/06/202	20 09:29:0	03	Hourly DOT batch Di	SP-185E8E40-5A4D-	4038-8A00-AC18024	D23D4 updated,	new status = OPI	R RESP				
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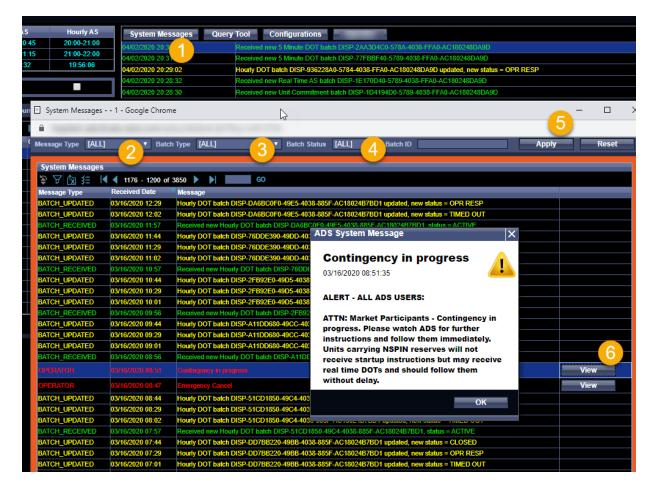


Pop-up for new Batches New feature: Time Display

Commit	tment	RTAS	Ηοι	irly AS	System	Messages Qu	uery Tool Co	nfigurations	_		
20:30-2	0:45	20:30-20:4	5 20:0	0-21:00	04/02/2020			5 Minute DOT batch D	ISP-77FBBE	40-5789-403	8.FFA0.AC1
21:00-2	1:15	21:00-21:1	5 21:0	0-22:00	04/02/2020			tch DISP-936228A0-5			
20:28	30	20:28:32	19:	56:06	04/02/2020			Real Time AS batch D			
					04/02/2020			Unit Commitment batc			
					04/02/2020			5 Minute DOT batch D			
					04/02/2020	20.20.02	Received new	5 Milliole COT Datch D	ISP-030ETT	A0-3700-403	0-117A0-A01
RT Com	nmitment	Unannound	ced A/S Test	ETSR	FMM	FRU/FRD - RTD	FRU/FRD - FMM	5 Min DOT Delt	ta ⇔ 0	Hourty DO	i Delta ⇔0
∢ ∢	1 - 15	of 1450		GO							
AGC	Base Sch	edule C	commitment To	Config	Config II	D	Current Spin	Dispatch AS Total	DOT St	tart Time	ED Fixed
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N	0							1	0 20:37		
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New Feature: View System messages





1. Advance Filter (Replaces Field Chooser). User can use the Inline filter as well.

Interval	RT DOT	Hourty DOT	Exceptional	Commitment	RT /	\S	Hourty AS	Syster	n Messi	ages	Query 1	ool Confi	igurations					
Current Interval	20:20-20:25	20:00-21:00	Active	20:15-20:30	20:15-2	0:30	20:00-21:00	04/02/20	20042-012-02-02-02-02-02-02-02-02-02-02-02-02-02	CONTRACTOR OF T		Densigned	new 5 Minute DOT	NAME DISD 112	CD2000 6	700 400	C EEAO A	019034
Dispatch Interval	20:25-20:30	21:00-22:00	08:45:00	20:45-21:00	20:45-2	1:00	21.00 22.00	04/02/202				ADS Syste		Datch DISP-12	0000-3	00-403	0-ITA0-A	0100240
Received/Status	20:21:04	19:56:01	08:41:03	20:15:01	20:15	:02	10.56.06	04/02/20					new 5 Minute DOT		004050	707 404		040004
								04/02/20					new Deal Time AS					
ter Resources					🛛 Advan	ced Filter I	Google Chrome	1251127240	20 20 15	112			new Real time AS	103104010051255651	2013/2155	NTE:UKS		
al Time Hourly	Pre-Dispatch	By SCID - 5 min E	xceptional Dispatch	RT Commitment														
Accept	Decline	Partial 🍣	V V V D #		🖌 Show a	dvanced filter	criteria in the grid foot	ter										
id Resource ID	-	Res Type Accept	and the second		Active	(Name	Not?		Operator			Value)	Condit	ion D	uplicate	Up D
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		OFN					ant MSS I E Down										apmonto	- PP



2. Controlling which Column to Display (Replaces Field Chooser)

Real Time Hour	ty Pre-Dispatch				
Accept	Decline	Partial	<u>।</u> सि सि सि यि	🚝 🖣 🖣 1 - 15 of 181 🕨 🕨 🔳	GO
Valid AGC Res Type	Resource ID		Config ID	Valid	Hourly DOT Star Time
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					3.00 ^{22:00}
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N ITIE	(1.00 <mark>22:00</mark>
N ITIE ETIE).00 <mark>22:00</mark>).00 <mark>22:00</mark>



3. Group By Function (Replaces Field Chooser)

	ourly Pre-Dispatch	- 15 of 1273 🕨	Up	pon right click on any column this pop up will show up
Valid AGC Res Type	Resource ID	Config ID	DOT Type	SC ID RT Prev RT RT DO DOT Start DO DOT DOT Group by this Column Ti
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N GEN			DOT	0.00 0 Max
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N TG		t	DOT	29.00 29.00 0.00 20:57
N GEN			DOT	0.00 0.00 0.00 20:57
N GEN		A	DOT	0.00 0.00 0.00 20:57



New feature: 13 additional tab Step 1: Creating Custom profile (renaming a tab)

Interval	RT DOT	Hourly DOT	Exceptional	Commitment	RT	AS	Hourly AS	Sys	tem Me	ssages Que	ry Tool Configura	ations	
Current Interval	20:45-20:50	20:00-21:00	Active	20:45-21:00	20:45-	21:00	20:00-21:00	04/02/	2020 20	46:04	Received new 5 Mi	nute DOT batch DISP-	-911/
Dispatch Interval	20:50-20:55	21:00-22 To	rename a t	ab	21:15-	21:30	21:00-22:00		2020 20			Time AS batch DISP-	
Received/Status	20:46:04	40-50-0	ase right cli	,	20:4	2:33	19:56:06		2020 20			Commitment batch DI	
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ilter Resources		an	y Tab						2020 20			DISP-936228A0-5784-	
	g ≸⊒ ¶ ◀ <mark> </mark> 1	- 5 of 127	Rename		×	DOT Start	DOT End	ED	ED	ED Unit	Commitment Start	Commitment End	
K V K 🗓	दु ३ ⊟ 🖣 🖣 📘 1	- 5 of 1279	Rename	e tab	×					3			
lid AGC <mark>Res</mark> Type	Resource ID 1	Config ID	r Name	AGC		DOT Start Time	DOI End Time	ED Fixed	ED Max	ED Unit Min Commitmer		Time	
N GEN	7		Renar	ne Cano	rol	.00 20:52							
N GEN	A		I		-CI	.00 20:52							
N GEN	A					.00 20:52							
N GEN	A		DOT C	13.00 13	.00	.00 20:52							
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N GEN			DOT S	0.00	.00 0	.00 20:52							
N GEN	A		001 3	0.00 0	.00								
	A A	२	DOT A			.00 20:52							



Step 1: Creating Custom profile (Saving a profile)

Hourty AS 10:00-11:00 11:00-12:00 09:56:35	System Messag 04/06/2020 10:36:07 04/06/2020 10:31:03 04/06/2020 10:29:02 04/06/2020 10:29:02	F F F	Received new 5 Minute D Received new 5 Minute D Received new Real Time A Rourly DOT batch DISP-7D	DISP-548D6 1 DISP-505B30 S batch DISP-80CF4, 3C2390-5A55-4038-4	A0-5A5A-4038-8A0 BA00-AC18024D23	00-AC18024D23D 0-AC18024D23D4 D4 updated, new s	atus = OPR RESP		
	04/06/2020 10:29:00		Received new Unit Commit	ment batch DISP-720	F4E0-5A5A-4038-	8A00-AC18024D23	D4		
<u> </u>									
m Save Current	Display Settings As	s a Template	Reset User	Display Settings		Charad D	splay Profiles		
			GO					1 of 1	
	Description		ble Created Date		_	Owner	Profile Name		Created Date
	Verify if the filters share		02/28/2020 16:16	Load	Delete		A Suresh Profile	Suresh Profile	
TEST Operator			play Continuration			SKOOREL	A Sulesh Ploine	Sulesii Pluile	03/31/2020 1
-	- Cur	e ourrent bis	hay contribution	^^		_			
-		Profile Name	Generic Profile						
	3	D							
Audio Alarm C	Configurations 💙	Description	ADS Demo						
		Sharable	Yes						
Batch Type	Audio File				/ Popup Alert				
5 Minute DOT	Sound_5								
Contingency Dis	patch Sound_C								
Exceptional Disp	atch Sound_O		1 Submit	Cancel	V				
Hourty AS	Sound_H		4 Submit	Gunton					
- Hourly DOT	Sound_Hourse	9 I.II.W							
D Real Time AS	Sound_AS.wav								
Unit Commitmen	t Sound_UnitCom	mitment.wav	✓						



Step 2: Loading a shared profile

🍣 California ISO	Automa	ited Dispatch Sy	ystem 🗢	⇒ x ☎ 8 0) A]				
Interval	RT DOT	Hourly DOT	Exceptional	Co 3 nt	RT AS	Hourty AS	System Messages	Query Tool	Configurations
Current Interval	10:45-10:50	10:00-11:00	Active	10:45-11:00	10:45-11:00	10:00-11:00	04/06/2020 10:46:03		I new 5 Minute D
Dispatch Interval	10:50-10:55	11:00-12:00	08:45:00	11:15-11:30	11:15-11:30	11:00-12:00	04/06/2020 10:42:04		new Real Time
Received/Status	10:46:03	09:56:31	08:41:03	10:42:01	10:42:04	09:56:35	04/06/2020 10:42:01		new Unit Commitme
							04/06/2020 10:41:02	Received	new 5 Minute DOT b
Filter Resources							04/06/2020 10:39:48	Hourly D	OT batch DISP-7D3C
Alid Resource ID	-	I - 15 of 2872 Res Type Accept GEN GEN GEN			Display Settings As a	a Template	لری Reset User Display	Settings	
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		GEN		● ▲ 征 ▲	🖣 1 - 2 of	2 🕨 🕨	GO		ŝ
		GEN		Profile Name — D	escription	Sharabl	e Created Date		Own
		GEN		Generic Profile A	DS Demo	Yes	04/06/2020 10:37 Load	Delete	SKC
		GEN		TEST Operator V	erify if the filters shared	correctly Yes	02/28/2020 16:16 Load	Delete	
		GEN							
		GEN							
		GEN							



New User Interface Demo An Example of Custom profile

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Interval	RT DOT	Hourly DO			Commit		RTAS		Hourly AS		iystem	Messag	ges Qu	iery Tool	Config	urations							
Current Interval	11:25-11:30	11:00-12:00			11:15-11		11:15-11		11:00-12:00	04/0	06/2020	11:26:03		R	eceived new !	5 Minute DOT batch DISP	-FF037160-5A61-4038	8A00-AC180	24D23D4				
Dispatch Interval	11:30-11:35	12:00-13:00			11:45-12		11:45-12		2:00-13:00	04/0	06/2020	11:21:02		R	eceived new	5 Minute DOT batch DISP	-4BE1E620-5A61-4038	-8A00-AC180	24D23D4				
Received/Status	11:26:03	10:56:01	08:41:0	03	11:15:	30	11:15:3	2	11:07:45	04/0	06/2020	11:16:02		R	eceived new	5 Minute DOT batch DISP	-992A1930-5A60-4038	8A00-AC180	24D23D4				
	_	_	_		_		_		_	04/0	06/2020	11:15:32		R	eceived new l	Real Time AS batch DISP-	-86FDB190-5A60-4038	-8A00-AC180	24D23D4				
Filter Resources										04/0	06/2020	11:15:30		R	eceived new	Unit Commitment batch Di	ISP-8608F150-5A60-40	38-8A00-AC	8024D23D4				
Real Time Hourly	Pre-Dispatch	By SCID - 5 min	Exceptional Dis	patch	RT Com	nitment	Unannou	inced A/S Tes	t ETSR	FN	ИM	FRU/FI	RD - RTD	FRU/FRI	D - FMM	5 Min DOT Delta ↔ 0	Hourty DOT Delta	•<>0 P	artially Accepted o	r Decliend	Commitment on	MSG Config	On AGC
🗧 🖬 🗑 📆 🕵	<u>}= 4 4</u>	1 - 15 of 2042		G)																		
/alid AGC Res R	Resource ID	Config ID	DOT Type	SC ID	RT Prev DOT	RT DOT	RT DOT Delta	DOT Start Time	DOT End Time	ED Fixed	ED Max	ED Min	Unit Commitme		mitment Star	t Commitment End Time	Commitment To Config	Current AS Total	Dispatch AS Total	Dispatch Spin	Dispatch Non Spin	Dispatch Reg Up	gl Dispatch Down
N GEN 1			DOT		62.88	53.36	-9.52	11:32											0.00 0	00 0.0	0.0	0 0	
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New User Interface Demo Audio/visual Alarm settings

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Accessing Query Tool: Changed – xml export not available & data limited to 30 days

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Responding to HASP Instructions

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Interval	RT DOT	Hourly DOT	Exceptional	Commitment	RTAS	Hourty AS
Current Interval		21:00-22:00	Active	21:00-21:15	21:00-21:15	21:00-22:00
Dispatch Interval		22:00-23:00	08:45:00	21:30-21:45	21:30-21:45	22:00-23:00
Received/Status		00:09	08:41:03	20:56:02	20:56:03	20:56:32
Filter Resources	-	-	-	-		-
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Navigate to view more records

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		05:28:31	05:28:32	04:56:06	04/03/2020 05:36:32	ADS System Ready						
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Interval RT DOT current Interval 05:40-05:45 spatch Interval 05:45-05:50 eceived/Status 05:41:02	Hourly DOT 05:00-06:00 06:00-07:00 04:56:01	Exceptional Active 08:45:00 08:41:03	Commitment 05:30-05:45 06:00-06:15 05:28:31	RT AS 05:30-05:45 06:00-06:15 05:28:32	Hourly AS 05:00-06:00 06:00-07:00 04:56:06	04/03/2020 0 04/03/2020 0 04/03/2020 0	5:41:02 Receiv 5:39:46 Hourly 5:36:32 ADS 5	Configurations red new 5 Minute DOT batch DOT batch DISP-364ABA0-5 system Ready red new 5 Minute DOT batch	7D0-4038-FFA0-	-57D6-4038-FFA0-AC1 AC180248DA9D updat	ed, new status = CLOSED				
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# New ADS: DST Transitioning ability

- Time shift after DST Transition will be addressed in Query tool.
- EIM entities will have access to ADS dispatches for HE20 via API on day before the Short Day DST Transition.



### Fall 2020 – ADS Replacement

Project Info	Details/Date								
Application Software Char	<ul> <li>Transition ADS provisioning to the Access and loging including Resource Level Access Controls (RAC</li> <li>The query tool will provide 30 days of historical of the access and loging resource Level Access Controls (RAC)</li> </ul>	<ul> <li>including Resource Level Access Controls (RACL) access</li> <li>The query tool will provide 30 days of historical data</li> <li>Various user interface enhancements adding content per Operation's request</li> </ul>							
BPM Changes	<ul><li>Market Instruments</li><li>Market Operations</li></ul>								
Tariff Changes	• N/A								
Milestone Type	Milestone Name	Dates	Status						
Board Approval	Obtain Board of Governors Approval	N/A							
External BRS	Post External BRS	Aug 06, 2018	$\checkmark$						
ADS Update	ADS Update Meeting	Aug 15, 2018	$\checkmark$						
ADS Demonstration	ADS WebEx Demonstration	Apr 16, 2020							
Config Guides	Design review - BPM and Tariff SMEs	N/A							
Tech Spec	Publish Technical Specifications	May 29, 2020							
Preview	ADS Replacement Application Preview	Jun 22, 2020							
Tariff	Tariff Activities	N/A							
BPMs	Post Draft BPM changes	Jul 20, 2020							
External Training	Provisioning ADS ACL Training	Jun 01, 2020							
	External Training Part 1 (Application Preview preparation)	Jun 11, 2020							
	Deliver External Training Part 2	Jul 16, 2020							
Market Sim	Market Sim Window	Jul 27, 2020 - Sep 04, 2020							
Production Activation	ADS Replacement	Oct 01, 2020							
Production	ADS Parallel Operations	TBD							
Decommission	Old ADS Decommission	TBD							
California ISO			Dage 22						



# Questions

For follow-up questions or to suggest future topics please contact your client representative or submit a CIDI ticket.

