







General	Adapter – Configuration	
		DELFT-FEWS
▲ general		reserved keyw
	<b>ProotDir</b> (%REGION_HOME%/Modules/arm	na/addghm
	workDir %ROOT_DIR%	
	• exportDir %ROOT_DIR%/data/xml	
	• exportIdMap ARMA_Export_For	From
	OimportDir %ROOT DIR%/data/xml	
	O importIdMap ARMA_Import_For	global.properties
	O dumpFileDir SGA_DUMPFILEDIRS	
	0 dumpDir 92ROOT_DIR%	
	O diagnostic(%ROOT_DIR%/logs/diag.xml	
▲ activities		
	✓ startUpActivities	General Adapter
	exportActivities	keywords
	Comment Execute activities	,
	executeActivities	
	ĭ importActivities	
		— Deltare
Deltares Configuration Cou	rse 5	



Export Activ	ities – Sca	alar/longitudinal	time Series	
				and the second
Exports time ser	ries from data	abase to a PI-XML fil	е	
Assign File nam	e to export d	lata to		
Assign Time Se	ries Sets to e	export		
Assign Time Oc		лроп		
Written to expor	tDir			
LocationID's & F	ParameterID	s will be translated o	n export (as indic	cated in
IdMapping)				
🐫 Comme	nt Export time s	eries		
▲ exportT	imeSeriesActiv	/ity		
	() description	n Export discharge bounda	ries	
	() exportFile	export_pi.xml		
	▲ timeSeries	sSets		
		🗹 timeSeriesSet		
		I timeSeriesSet ∑		
			— D	eltares
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Expor	rt Activiti	es – Module pa	rameters	
				H
DELFT-I	FEWS admini	sters module paramet	ers	
Exports	to external m	odule as PI-XML file		
Heid in C		Parfiles		
	▲ exportParam	eterActivity		
		() description	Module Parameters	
		🔿 fileName	pi_parameters.xml	
		() moduleInstanceId	ISIS_Eden_Forecas	t
				Deltarer
Deltares Configura	ation Course	9		Delluies

				22 00
Expo	rt Activiti	<u>es – Module da</u>	taset	
DELFT-	FEWS admin	isters module dataset		
• D	ataset: native	e module file		
<b>.</b> H	leld in Confia <sup>v</sup>	ModuleDataSets by DE	LFT-FEWS as a ZIP f	ile
Exports	to external m	odule by extracting data	a in ZIP file	
Exports	to external m	odule by extracting data	a in ZIP file	
Exports Exporte	to external m d to a "root"di	rectory	a in ZIP file	
Exports Exporte	to external m d to a "root"di	odule by extracting data	a in ZIP file	
Exports Exporte	to external m d to a "root"di	etActivity	a in ZIP file	
Exports Exporte	to external m d to a "root"di	etActivity	a in ZIP file	



					e a
Exporting Stat	es				
Defining "how" to exp	ort state				
			From the perce	noctivo	
moduloInstanceld			From the pers	pective	
moduleinstanceid			of the model!!		
stateExportDir			١		
atotoConfigTilo			\		
stateConligFile			\		
stateLocations	🕶 Comment	Export state (warm stat	:e)		
	<ul> <li>exportSta</li> </ul>	nteActivity			
<ul><li>read</li></ul>		O moduleInstanceId	ISIS_Eden_HD_Historica	1	
		O stateExportDir	%ROOT_DIR%/Eten_HL	)_States	
<ul> <li>Write</li> </ul>		stateConfigEne		_States/input.	. XITII
		stateLocations	= type file		
			▲ stateLocation		
			Orea	adLocation	input.zzs
			O wr	iteLocation	output.zz
		■ stateSelection			
				Del	ΓΠΓ

					920 0000
Evn	orting S	tates			
Слр		laics			
ototoC	onfigEilo				
SlaleC	оппугпе				
Eor ov	nort: \//ritto		EEW/S : road by a	dantar	
FULEX	pon. white	IDY DELFI-	reau by at	Japier	
Earim	nort:\//ritton	by adaptor	road by DELET E		
FOLIM	pon.winten	by adapter	, read by DELFT-F	EVV3	
State					
	= xsi:schemaL	o http://www.widelft.r	nl/fews/PI http://fews.widelft.nl/sch	emas/version1.0/pi-schemas/r	pi state.xsd
	= version	1.2	•		
	= xmlns	http://www.widelft.r	nl/fews/Pl		
	= xmlns:xsi	http://www.w3.org/	2001/XMLSchema-instance		
	() stateld	Default			
	() timeZone	0.0			
	🔺 dateTime				
		= date	2005-11-25		
		= time	22:00:00		
	▲ stateLoc				
		= type	file		
		🗘 readLocation	D:\FewsTrain\FewsTrain\Module	s\ISIS\Eden_HD\Eden_HD_St	ates\input.zzs
		() writeLocation	D:\FewsTrain\FewsTrain\Module	s\ISIS\Eden_HD\Eden_HD_St	ates\output.zzs
				r	Deltares

Exporting States		A		
			· ·	A CONTRACTOR
Defining "what" to state export	t: stateSelect	ion		
	., stateooroot			
State selection determines ler	igth of modul	e run!!!!!		
		ابرام ممرجه		
Cold State: Always use a cold	state to milia	ate module	e run	I
* coldState				
	O groupId ▲ startDate	Default		
		= unit	hour	
		= divider	48	
Warm State: Use most suitabl	e/recent state	e in searc	h period	
▲ stateSelection ▲ warmState				
	stateSearchPeriod	d		
		= unit nour = start -48		
		= end O		Deltacoc
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General A	Adapter – Import Activities	
		- Alexandre
Importing s	states	
<ul> <li>Simple inst</li> </ul>	truction where to find stateConfigFile	
	indefield where to find stateooning he	
importActiv	vities	
	ImportStateActivity O stateConfigEile %ROOT DIR%/states/state	s xml
	✓ importTimeSeriesActivity	
	_	
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Module Configuration Templates	
Purpose:	
<ul> <li>Allows for multiple instances of the same process for variousing a single General Adapter configuration</li> </ul>	ous modules
- Reduces configuration effort	
- Increases consistency	
For example:	
You want to run a Delft3D Flow simulation for two models	
- Use moduleInstanceID: D3D_flow_1h_hc	
<ul> <li>Use workflow: D3D_flow_model1 &amp; D3D_flow_model2</li> </ul>	
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Add	se	ries to Ex	ternal Model	
The Run	Inte		cise Workflow contains 7 module insta	ances
	1	true	InterpolateExample	
	2	true	LevelToFlow	
	3	true	loM_CatchmentAveragePrecipitation	
	4	true	InterpolateNimrod	
	5	true	Merge_Precipitation	
	6	true	Hydro_Train_Interpolate_Forecast	
	7	true	Hydro_Train_Forecast	
• What – Ur	<mark>car</mark> odai	i we do to use te the Hydro_T	the P.merged series by the model? Train_Interpolate_Forecast: use the P	.merged series
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C: Parameter Updating		
No example available		
By the NWS MODS (manually)		
Parameter uncertainty can affect th	ne forecasts	
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Length Trainir	na perio	d			
	<del>.a p</del>			· · ·	-
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	in hours	period	peak period		
	10	83.5	216.4		
	20	79.4	203.5		
	50	62.8	129.5		
	100	57.8	108.0		
	200	53.1	80.4		
	300	51.5	71.9		
	400	50.4	67.1		
	500	49.6	<u>66.3</u>		
	750	<u>49.3</u>	72.6		
	1000	50.8	85.8		
	2000	50.7	85.6		
	3500	50.5	80.8		
				-	
Deltares Configuration Course		74		L	Jellares















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Fnsemble	s and W	orkflows		
	* * +	able lette configured		
On importing	j, the Ensen	nble la ls conligurea		
a timeSe	ariaoSat	· · · · · · · · · · · · · · · · · · ·		
	() moduleinstanceid	ImportKNMI	-	
	() valueType	scalar		
	() parameterid	P.ens.forecast		
	() locationId	CatchAvg		
	() timeSeriesType	external forecasting		
	🖬 timeStep unit=hour m	ultiplier=6		
	() readWriteMode	add originals		
	() synchLevel	1	_	
	expiryTime unit=day	multiplier=7	_	
	() ensembleid	EPS		
• Forecast Wo		ing the same Ensemb Ing the same Ensemb Methydro_Train_Forecast	le ID	
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Ν	lore	on Ei	nsembles	s (4)		
🔀 Altova XMLSpy -	Ensemble_Statist	ics 1.00 default] 💼 🗠 ලා 🏄	# #	ý @   M = M   <b>D</b> @ ]   ·		X
Ele Edit Pr	oject XML DTD/Sc	thema Sche <u>m</u> a desi	n XSL/XQuery Authentic DB	Convert View Browser Tools V	(Indow Help	- 8×
	added with VMI Cos	uuoooo aat data daa	and official combined CT (Stickting Date	1000)		<u>*</u>
▲ transformationh	Adule	y #2008 sp1 (http://w	ww.aitova.com/ by ici (Stichting Deta	eeo)		
	= version	1.0				
	= xmins:xe/	http://www.w3.	rg/2001/XMLSchema-instance			
	= xmins	http://www.wide	lift ni/fews			
	= xs/:schemaLoo	ea http://www.wide	htt ni/fews http://fews.widelft.ni/sche	mas/version1.0AransformationModule.xs	d	
	C- Comment	input variables				
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	( Comment	transformations				
	- variable	() variableld	Eps			
		T timeSeries	Set			
	<ul> <li>transformation</li> </ul>	n (7)				
		= id	() statisticsEnsemble			
		1 Gmin	<ul> <li>statisticsEnsemble</li> </ul>			
			- m	in inputVariable	Australia ma	
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		2 Gmax	≤ statisticsEnsemble			
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		6 088	✓ statisticsEnsemble			
		1 0/5	statisticsEnsemble			
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Ensemble Stati	istics 1.00 default					d 1
XMLSpy v2009 sp1 R/	egistered to ICT (Stich	ting Deltares) ©199	3-2009 Altova GmbH 🔡 2 Total Co 🔹	2 FewsNL + 🖸 Microsoft Po	🛙 🖫 TextPad - [D 🛛 🌄 Pews Water 🛛 🏀 s	CAP NUM SCR moelenboek 🔯 Altoya XML 🛛 🚺 < = "😻 14:46
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