



FRAMEWORK CONVENTION ON CLIMATE CHANGE – Secretariat CONVENTION - CADRE SUR LES CHANGEMENTS CLIMATIQUES – Secrétariat

# Independent assessment report of the national registry of Denmark

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Approved by:	Vitaly Matsarski/UNFCCC	Date:	16/10/07

#### **Circulation list**

Name/Role	Organization	Info/Action
RSA	National registry of Denmark	Info
Expert Review Team for Denmark	UNFCCC	Action

#### Document change record

Version	Date	Description	Affected sections
v1.0a	15/10/07	First draft	All
v1.0	16/10/07	Final	Summary

#### Decision

This Independent Assessment Report (IAR) has been prepared by the International Transaction Log (ITL) Administrator. This IAR includes the following Addenda:

Addendum 1: Initialization 1 Addendum 2: Glossary





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			L	AR SUMMARY		IAR SUMMARY					
	Registry Name	National registr	y of Denmark								
-	Date of report	16/10/07 F	Reporting period	N/A							
General information	IAR Type	Standard IAR		Initial IAR	Ø						
al infor	Components	Initialization Required		Operational Per Required	rformance		ailability of on Required				
Genera	Registry URL	http://dketreu.m	nst.dk/								
	Consolidated system with other Parties?	Yes 🔽	No 💽	Parties involved							
L L	Conclusion	Pass 💽	Fail 🌅								
Overall Registry Assessment	Comments / recom- mendations	These obligation prevent and rest recovery. The decisions 13/C	is fulfilled all of its ons include havin solve unauthorize registry is therefor MP.1 and 5/CMF r Public Availabil	ng adequate tran ed manipulations ore deemed fully P.1, noting that r	isaction proced s; and adequat y compliant with registries do no	lures; adequat te measures for h the registry i t have obligati	te security mea or data storage requirements o ions regarding	asures to e and registry defined in			
	Conclusion	Pass 💽	Fail 🚺	N/A 🎦							
	Initializations during reporting period	1	2	3							
Initialization	Initialization status	Pass 🖸 Fail 💭 N/A 💭	Pass Fail N/A	Pass D Fail D N/A D							
5	Start Date	11/4/07									
	End Date	4/10/07			<u> </u>	L					
	Comments / recom- mendations										
nal Ince	Conclusion	Pass	Fail [	N/A 💽							
Operational Performance	Comments / recom- mendations										
	Conclusion	Complete		te	No data	N/A	Ø				
ability tion	Main Web Address				Date last ac	cessed					
Public Availability of Information	Comments / recom- mendations										



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### Addendum 1

**Initialization 1** 

Registry Name	istry Name National registry of Denmark		
Date of report	of report 16/10/07		0
Reporting Period	N/A	Fail N/A	
Start Date	11/4/07		
End Date	4/10/07		
Comments / recommendations			

#### 1 Documentation Evaluation

This evaluation was carried out by the ITL Operator under the initialization process and aggregated results have been transcribed here in full.

Status	Green Amber Red N/A			
Total Score (max. 100)	84			
Comments / recommendations				

The scoring approach used to evaluate the registry documentation is to assess the confidence level associated with each document, based on quality (completeness / accuracy / consistency of information supplied) and evidence (actual results supporting information supplied, if appropriate). The approach is set out below (see the ITL Initialization Process documentation for further information).

Status	Description	Score
Green	No significant concerns about the state of registry readiness are identified.	> 80
Amber	Minor limitations in the state of registry readiness are identified.	50 - 80
Red	Significant concerns about the state of registry readiness are identified.	< 50

Ref.	Test Description	Quality	Evidence	<b>Confidence</b> <sup>1</sup>
1.1	Database and Application Backup			
	Detailed plan describing backup	86%	78%	83%
	procedures for the production	00 /0	1070	0570
	database and software.			
1.2	Disaster Recovery Plan			
	Plan designed to enable Registry to			
	survive in the event of catastrophic			
	failure or disruption of the host	95%	67%	87%
	environment and to re-establish			
	normal business operations as quickly			
	as possible.			
1.3	Security Plan			
	Plan defined in order to protect the	95%	67%	87%
	application and data from unrestricted	95%	07 70	01 70
	and unsolicited use.			
1.4	Application Logging			
	Documentation			
	Documentation describing registry			
	capability to maintain database logs	100%	90%	93%
	and activity logs, provided to	100 /0	3070	3370
	demonstrate conformance with			
	Section 7 of the Data Exchange			
	Standards.			
1.5	Time Validation Plan			
	Specific procedures for validating	86%	78%	83%
	server time on a periodic basis to	0070	1070	0070
	allow successful data exchange.			
1.6	Version Change Management			
	Procedure providing a clear migration			
	path to upgrade from version to	86%	78%	83%
	version of registry software and			
	database schemas.			
1.7	Test Plan			
	Plan ensuring a registry has			
	performed basic testing and is			
	capable of participating in the tests	76%	67%	73%
	outlined in Annex H of the DES, which			
	are required of a registry prior to			
	being authorized to submit production			
1.8	transactions to the IIL.			
1.0	Test Report Report providing evidence that a			
	registry has performed basic testing			
	and is capable of participating in the			
	tests outlined in Annex H of the DES,	89%	86%	87%
	which are required of a registry prior			
	to being authorized to submit			
	production transactions to the ITL.			
1.9	Operational Plan			
1.5	Plan ensuring that the Registry has			
	appropriately planned and staffed			
	their operational requirements, so that	85%	71%	80%
	the initial standards and requirements	0070		0070
	will be addressed on an ongoing			
	basis.			
-	NU010.		1	1

<sup>&</sup>lt;sup>1</sup> Figures in this column were calculated using weighted averages for quality and evidence.

#### 2 Connectivity Evaluation

This evaluation was carried out by the ITL Operator under the initialization process and the results have been transcribed here in full.

Status	Pass Fail N/A	
Comments / recommendations		

Ref.	Test Description	Pass	Fail	N/A
2.1	Establish VPN connectivity between registry and ITL	Ø	0	0
2.2	Establish SSL connection	Q		
2.3	Establish basic Web service communication	0	0	C

#### 3 Interoperability Evaluation

This evaluation was carried out by the ITL Operator under the initialization process and aggregated results have been transcribed here in full. In the below table, Reference 5 applies only to EU ETS member registries, and Reference 6 applies only to the CDM registry.

Status	Pass Fail N/A	
Comments / recommendations		

Ref.	Test Description	Pass	Fail	N/A
3.	Discrete Transaction Tests	٥		
3.1	Issuance	0		
3.2	Conversion	0	0	0
3.3	External Transfer	0		
3.4	Cancellation	0		0
3.5	Retirement	0		0
3.6	Replacement	0		0
3.7	Carry-over	0		
3.8	Expiry Date Change	0		
4.	Test Cases (National Registry)	0		
4.1	Issuance Transaction Tests	O		
4.2	Conversion Transaction Tests	0		
4.3	External Transfer Transaction Tests	٥		0
4.4	Cancellation Transaction Tests	0		0
4.5	Expiry Date Change Transaction Tests	0		0
4.6	Retirement Transaction Tests	0		0
4.7	Replacement Transaction Tests	0		0
4.8	Carry-Over Transaction Tests	0		0
5.	EU ETS Member Registry Test Cases	٥		
5.1	Account Management Web Services	0		
5.2	Internal Transfer Transaction Tests	0		
6.	Test Cases (CDM Registry)			O
6.1	Issuance Transaction Tests	0		0
6.2	Internal Transfer Transaction Tests			Q
6.3	External Transfer Transaction Tests			Ø
6.4	Cancellation Transaction Tests	0		0
6.5	Expiry Date Change Transaction Tests			0
6.6	Additional Tests	0		0

#### 4 Initialization Recommendation (by ITL Operator)

Recommendation	Yes No	
Comments		

#### 5 Initialization Authorisation (by ITL Administrator)

Authorization	Yes No	
Comments		

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## Addendum 2

## Glossary

GLOSSARY				
TERM	DEFINITION			
Annex H of the DES	The annex of the DES defining the initialization tests that a registry must pass as part of the initialization process			
CDM Registry	The registry established by the Executive Board of the Clean Development Mechanism and implemented by the UNFCCC secretariat			
CITL	Community Independent Transaction Log. The STL operated by the European Commission for the European Union Emissions Trading Scheme			
Connectivity Evaluation	Part of the initialization process that tests whether a registry can connect successfully with the ITL			
Consolidated Systems	Registry systems which share system infrastructure			
DES	Data Exchange Standards			
Document Evaluation	Part of the initialization process that assesses the documentation submitted to the ITL Administrator			
ERT	Expert Review Team under Article 8 of the Kyoto Protocol			
Final Comments	The final comments made by a RSA on the draft IAR after having received responses from the ITL Administrator on earlier comments			
IAR	Independent Assessment Report			
Initial IAR	The first IAR carried out for a registry when it initialises for the first time. Subsequent initializations are reported in Standard IARs.			
Initialization	The process by which a registry is formally tested by the ITL Administrator for conformity with the DES			
International Transaction Log (ITL)	The system established under the Kyoto Protocol to monitor the validity of transactions between Parties. It is implemented by the UNFCCC secretariat			
ITL Administrator	The Administrator of the ITL. It is a role assigned to the UNFCCC secretariat			
ITL Operator	The service provider that operates the ITL on behalf of the ITL Administrator			
N/A	Not Applicable			
National Registry	A registry established by an Annex I Party			
Operational Performance	The performance of a registry during its operation			
Reporting Period	The period of time covered by an IAR			
RSA	Registry System Administrator			
SEF	Standard Electronic Format, defined for the reporting by Annex B Parties to the Kyoto Protocol of their assigned amount holdings and transactions			
SSL	Secure Socket Layer. A standard used to establish encrypted communications			
Standard IAR	All IARs subsequent to a successful Initial IAR			
Supplementary Transaction Log (STL)	An electronic database established for a Supplementary Trading Programme to monitor the validity of transactions between registries under that programme			