



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

# Independent assessment report of the national registry of Canada

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#### **Circulation list**

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

#### Document change record

Version	Date	Description	Affected sections
v1.0a	11/06/08	First draft	All
v1.0	12/06/08	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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	IAR SUMMARY							
	Registry Name	National registr	y of Canada					
	Date of report	12/06/08 F	Reporting period	N/A				
mation	IAR Type	Standard IAR		Initial IAR	I	0		
General information	Components	Initialization Required		Operational Pe Required	rformance		olic Availability of ormation Required	
Genera	Registry URL	https://rncpk-ck	pnr.ec.gc.ca		_			
	Consolidated system with other Parties?	Yes 🚺	No 💽	Parties involved				
	Conclusion	Pass 💽	Fail []					
Overall Registry Assessment	recom-	These obligatic prevent and re- recovery. Whil limitations in th commencing liv requirements d obligations rega	The registry has fulfilled sufficient obligations regarding conformity with the Data Exchange Standards. These obligations include having adequate transaction procedures; adequate security measures to prevent and resolve unauthorized manipulations; and adequate measures for data storage and registry recovery. While the Documentation Evaluation, as reported in Addendum 1, identified some minor imitations in the state of registry readiness, these limitations are to be rectified prior to the registry commencing live operations. The registry is therefore deemed sufficiently compliant with the registry requirements defined in decisions 13/CMP.1 and 5/CMP.1, noting that registries do not have obligations regarding Operational Performance or Public Availability of Information prior to the perational phase.					
	Conclusion	Pass 💽	Fail	N/A				
	Initializations during reporting period	1	2	3				
Initialization	Initialization status	Pass 🖸 Fail 🚺 N/A 💭	Pass D Fail D N/A	Pass 💭 Fail 💭 N/A 🖸				
-	Start Date	25/01/08						
	End Date Comments / recom- mendations	09/06/08						
ional iance	Conclusion	Pass 🚺	Fail 🚺	N/A 🖸				
Operati Perform	Comments / recom- mendations							
	Conclusion	Complete		ete	No data		N/A	
ilability ation	Main Web Address				Date last	accessed		
Public Availability of Information	Comments / recom- mendations							

## UNITED NATIONS NATIONS UNIES



1	FRAMEWORK CONVENTION ON CLIMATE CHANGE – Secretariat CONVENTION - CADRE SUR LES CHANGEMENTS CLIMATIQUES – Secrétariat							
Ī	on	Date of Review	11/06/08					
	nsultati aft IAR	Author	Judith Hull	Position	Director, Environment Canada Trading Regimes Division			
	RSA Consultation on Draft IAR	Final Comments	none					

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## Addendum 1

## Initialization 1

Registry Name	National Registry of Canada			
Date of report	12/06/08	Pass	Ø	
Reporting Period	N/A	Fail N/A		
Start Date	25/01/08			
End Date	09/06/08			
Comments / recommendations	While the Documentation Evaluation, as reported in Addendum 1, identified some minor limitations in the state of registry readiness, these limitations are to be rectified prior to the registry commencing live operations.			

#### 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
Total Score (max. 100)	77%
Comments / recommendations	<ol> <li>The following limitations were identified during the documentation evaluation:</li> <li>The Disaster Recovery Plan for Canada is still evolving and should be available when the registry moves into full production.</li> <li>Evidence of the Version Change Management procedure being executed is not available.</li> <li>The evidence provided of time management, as part of the Time Validation Plan, is limited and does not show time rectification actually being performed.</li> <li>Within the Change Management section of the Operational Plan, "Ops Plan", the explanation of how operational changes to the registry environment are documented and controlled is limited, particularly in relation to communication of such changes to a third party such as the ITL.</li> </ol>

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%	89%	87%
	procedures for the production	00 /0	0970	07 /0
	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	71%	44%	63%
	environment and to re-establish			
	normal business operations as quickly			
	as possible.			
1.3	Security Plan			
	Plan defined in order to protect the	060/	700/	0.20/
	application and data from unrestricted	86%	78%	83%
	and unsolicited use.			
1.4	Application Logging			
	Documentation			
	Documentation describing registry			
	capability to maintain database logs	000/	0.00/	070/
	and activity logs, provided to	89%	86%	87%
	demonstrate conformance with			
	Section 7 of the Data Exchange			
	Standards.			
1.5	Time Validation Plan			
	Specific procedures for validating	71%	56%	67%
	server time on a periodic basis to	7 1 70	50%	07 %
	allow successful data exchange.			
1.6	Version Change Management			
	Procedure providing a clear migration			
	path to upgrade from version to	86%	44%	73%
	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	86%	67%	80%
	outlined in Annex H of the DES, which	0070	0770	0070
	are required of a registry prior to			
	being authorized to submit production			
	transactions to the ITL.			
1.8	Test Report			
	Report providing evidence that a			
	registry has performed basic testing			
	and is capable of participating in the	67%	86%	80%
	tests outlined in Annex H of the DES,	01 /0	0070	0070
	which are required of a registry prior			
	to being authorized to submit			
L	production transactions to the ITL.		ļ	
1.9	Operational Plan			
	Plan ensuring that the Registry has			
	appropriately planned and staffed			
	their operational requirements, so that	77%	76%	77%
	the initial standards and requirements			
	will be addressed on an ongoing			
	basis.			

<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	O	C	0
2.2	Establish SSL connection	0		
2.3	Establish basic Web service communication	O	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	0
3.5	Retirement	0	0	
3.6	Replacement	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	0		
4.4	Cancellation Transaction Tests	0	0	0
4.5	Expiry Date Change Transaction Tests	0		D
4.6	Retirement Transaction Tests	0	0	0
4.7	Replacement Transaction Tests	0		
4.8	Carry-Over Transaction Tests	0	0	0
5.	EU ETS Member Registry Test Cases			
5.1	Account Management Web Services	0		Ø
5.2	Internal Transfer Transaction Tests			Ø
6.	Test Cases (CDM Registry)	0		O
6.1	Issuance Transaction Tests	0	0	O
6.2	Internal Transfer Transaction Tests		ä	Ø
6.3	External Transfer Transaction Tests			O
6.4	Cancellation Transaction Tests	0	0	0
6.5	Expiry Date Change Transaction Tests		<b>n</b>	Ø

## 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			