



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

# Independent assessment report of the national registry of Switzerland

Reference	Reg_IAR_CH_2007_1		
Security classification:	Registry System Administrator (RSA)		
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Prepared by:	Anthony Mak/UNFCCC	Date:	8/8/07
Reviewed by:	Andrew Howard/UNFCCC	Date:	8/8/07
Approved by:	Vitaly Matsarski	Date:	8/8/07

#### **Circulation list**

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

#### Document change record

Version	Date	Description	Affected sections
v1.0a	7/8/07	First draft	All
v1.0b	8/8/07	Second draft	Addendum 1
v1.0	8/8/07	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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	Registr	y Name	Nationa	l registr	ry of Sv	vitzerland								
_		of report	8/8/07	F	Reporti	ng period	N/A				-			
General information	I.A	AR Type	Standar	d IAR			Initial L	AR		0				
al infor	Com	ponents	Initializa Require		ı	<b>&lt;</b>	Operat Require		rformance			vailability of ion Required		
Genera	Regis	stry URL	https://v	vww.na	itional-r	egistry.ch	ı							
	Cons syst	olidated tem with Parties?	Yes	9	No		Partie involve		Monaco, l	_iechte	nstein			
	Coi	nclusion	Pass	0	Fail									
Overall Registry	Assessment Com	recom-	These of prevent recover limitatio commercequirer	obligation and restry. While ons in the ons regions regions	ons incl solve u le the D ne state ve oper defined arding	ude havir nauthoriz locumenta of registr rations. T in decisio	ng adeq ed man ation Ev y readir he regis	uate trar ipulation raluation ness, the stry is the CMP.1 ar	nsaction pr is; and ade i, as report ese limitation erefore de ind 5/CMP.	ocedurequate equate of the control occurs of the control occurs of the control occurs	es; adeques measures addendum to be rect sufficiently ag that regions.	Data Exchangate security me for data storagation in the formation of the compliant with stries do not home to the compliant with stries do not home the formation prior the stries and the formation prior the string and the string and the string and the string are string as the string as	easure ge and ome m e reginate the re ave	es to I registry inor stry
	Con	clusion	Pass	9	Fail		N/A							
	re	zations during porting period	1			2		3						
Initialization	Initia	lization status	Pass Fail N/A		Pass Fail N/A	0 0	Pass Fail N/A							
_	Sta	rt Date	16/3/0										F	
	En	nd Date	25/7/0	7										
	1	ments / recom- dations												
nal	e Coi	nclusion	Pass		Fail		N/A	<b>•</b>						
Operational	Com mer	nments / recom- ndations												
	Cor	nclusion	Comple	te		Incomple	ete		No data		N/A	⊡		
ability	Ma Ma	ain Web Address							Date la	st acce	ssed			
Public Availability		nments / recom- ndations												

# UNITED NATIONS NATIONS UNIES





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ion	Date of Review	8/8/07		
Consultation	Author	Yvan Keckeis	Position	Senior Policy Officer
RSA Cor	Final Comments	None		

# Independent Assessment Report of the national registry of Switzerland

### Addendum 1

#### **Initialization 1**

Registry Name	National registry of Switzerland			
Date of report	8/8/07	Pass	9	
Reporting Period	N/A Fail N/A 16/3/07			
Start Date				
End Date	25/7/07			
Comments / recommendations	While the Documentation Evaluation, as reported in section 1, identified some minor limitations in the state of registry readiness, these limitations are to be ectified 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 Red N/A
Total Score (max. 100)	74%
Comments / recommendations	The following limitations were identified during the documentation evaluation:  1. The Disaster Recovery Plan is incomplete and a Disaster Recovery Test Plan has not been submitted.  2. The Application Logging document does not allow for easy monitoring of the application.  3. The Test Report indicates that the Test Plan has not yet been completed in full.  4 The Operational Plan does not elaborate plans for reviewing and enhancing registry capacity over time.

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

procedures for the production 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 environment and to re-establish normal business operations as quickly as possible.  1.3 Security Plan Plan defined in order to protect the application and data from unrestricted and unsolicited use.  1.4 Application Logging Documentation Documentation Documentation describing registry	73%
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capability to maintain database logs and activity logs, provided to demonstrate conformance with Section 7 of the Data Exchange	
and activity logs, provided to demonstrate conformance with Section 7 of the Data Exchange	
demonstrate conformance with Section 7 of the Data Exchange	63%
Section 7 of the Data Exchange	
i Digitugita.	
1.5 Time Validation Plan	
Specific procedures for validating	000/
server time on a periodic basis to	83%
allow successful data exchange.	
1.6 Version Change Management	
Procedure providing a clear migration	
path to upgrade from version to 81% 89%	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 90% 78%	87%
outlined in Annex H of the DES, which	- <del>-</del>
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 canable of participating in the	
tests outlined in Annex H of the DES,	33%
which are required of a registry prior	
to being authorized to submit	
production transactions to the ITL.	
1.9 Operational Plan	
Plan ensuring that the Registry has	
appropriately planned and staffed	
	78%
their operational requirements, so that 74% 86%	1 U /0
their operational requirements, so that 74% 86% 7 the initial standards and requirements	ı O /0
	ı U /0

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	0	
Comments / recommendations			

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

Ref.	Test Description	Pass	Fail	N/A
3.	Discrete Transaction Tests	٥		
3.1	Issuance	٥		
3.2	Conversion	٥		
3.3	External Transfer	0		
3.4	Cancellation	٥		0
3.5	Retirement	٥		0
3.6	Replacement	٥		
3.7	Carry-over	٥		
3.8	Expiry Date Change	٥		
4.	Test Cases (National Registry)	0		
4.1	Issuance Transaction Tests	0		
4.2	Conversion Transaction Tests	0		
4.3	External Transfer Transaction Tests	0		
4.4	Cancellation Transaction Tests	٥		0
4.5	Expiry Date Change Transaction Tests	0		
4.6	Retirement Transaction Tests	0		
4.7	Replacement Transaction Tests	٥		D
4.8	Carry-Over Transaction Tests	0		
5.	EU ETS Member Registry Test Cases			0
5.1	Account Management Web Services			O
5.2	Internal Transfer Transaction Tests			O
6.	Test Cases (CDM Registry)			0
6.1	Issuance Transaction Tests			0
6.2	Internal Transfer Transaction Tests			Ö
6.3	External Transfer Transaction Tests			Ø
6.4	Cancellation Transaction Tests			0
6.5	Expiry Date Change Transaction Tests			Ø
6.6	Additional Tests			9

Recommendation	Yes No	D D
	l	

## 5 Initialization Authorisation (by ITL Administrator)

Comments

Initialization Recommendation (by ITL Operator)

Authorization	Yes No	0	
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			