



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

Independent assessment report of the national registry of Ukraine

| Reference | Reg_IAR_UA_2007_1 | | | | | |
|--------------------------|-------------------------|--------|----------|--|--|--|
| Security classification: | Public | | | | | |
| Version number: | v1.0 | State: | Final | | | |
| Prepared by: | Anthony Mak/UNFCCC | Date: | 10/12/07 | | | |
| Reviewed by: | Andrew Howard/UNFCCC | Date: | 10/12/07 | | | |
| Approved by: | Vitaly Matsarski/UNFCCC | Date: | 10/12/07 | | | |

Circulation list

| Name/Role | Organization | Info/Action |
|------------------------------------|------------------------------|-------------|
| RSA | National registry of Ukraine | Info |
| Expert Review Team for the Ukraine | UNFCCC | Action |

Document change record

| Version | Date | Description | Affected sections |
|---------|----------|-------------|-------------------|
| v1.0a | 5/12/07 | First draft | All |
| v1.0 | 10/12/07 | 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



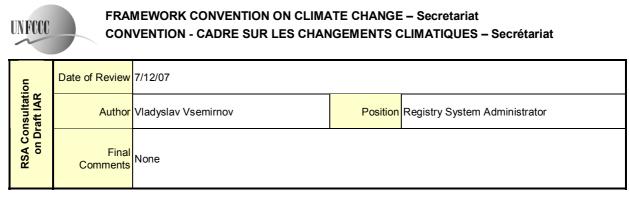


FRAMEWORK CONVENTION ON CLIMATE CHANGE – Secretariat CONVENTION - CADRE SUR LES CHANGEMENTS CLIMATIQUES – Secrétariat

| | IAR SUMMARY | | | | | | |
|---------------------------------------|--|---|---|-----------------------------|-----------------|--|---|
| | Registry Name | National registr | National registry of Ukraine | | | | |
| _ | Date of report | 10/12/07 F | Reporting period | N/A | | | |
| matior | IAR Type | Standard IAR | | Initial IAR | | | |
| General information | Components | Initialization Required | V | Operational Per Required | | Public Availability Information Require | |
| Gener | | http://www.cart | oonunitsregistry. | gov.ua | | | |
| | Consolidated system with other Parties? | Yes 门 | No 🖸 | Parties involved | | | |
| t | Conclusion | Pass 💽 | Fail 🚺 | | | | |
| Overall Registry Assessment | Comments / recom- mendations | These obligation prevent and rest recovery. The decisions 13/C | The registry has fulfilled all of its 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. The registry is therefore deemed fully 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 operational phase. | | | | |
| | Conclusion | Pass 💽 | Fail | N/A 💟 | | | |
| | Initializations during reporting period | 1 | 2 | 3 | | | |
| Initialization | Initialization status | Pass 🖸 Fail 🚺 N/A 💭 | Pass Fail N/A | Pass 🚺 Fail 🚺 N/A 💽 | | | |
| - | Start Date | 15/8/07 26/11/07 | | | | | |
| | End Date Comments / | 20/11/07 | | | | | |
| | recom- mendations | | | | | | |
| onal ance | Conclusion | Pass | Fail 📋 | N/A 💽 | | | |
| Operational Performance | Comments / recom- mendations | | | | | | |
| | Conclusion | Complete | | te 🖸 | No data | N/A | 1 |
| ability tion | Main Web Address | | | | Date last acces | sed | |
| Public Availability of Information | Comments / recom- mendations | | | | | | |

UNITED NATIONS NATIONS UNIES





Independent Assessment Report of the national registry of Ukraine

Addendum 1

Initialization 1

| Registry Name | National registry of Ukraine | | | |
|-------------------------------|------------------------------|--------|---|--|
| Date of report | 10/12/07 | Pass | Ø | |
| Reporting Period | N/A | Fail D | | |
| Start Date | 15/8/07 | | | |
| End Date | 26/11/07 | | | |
| 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) | 88% | |
| 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 | Confidence ¹ | |
|----------|--|---------|----------|--------------------------------|--|
| 1.1 | Database and Application Backup | | | | |
| | Detailed plan describing backup | 100% | 100% | 100% | |
| | procedures for the production | 100 /0 | 10070 | 100 /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 | 86% | 89% | 87% | |
| | environment and to re-establish | | | | |
| | normal business operations as quickly | | | | |
| | as possible. | | | | |
| 1.3 | Security Plan | | | | |
| | Plan defined in order to protect the | 90% | 89% | 90% | |
| | application and data from unrestricted | 0070 | 0070 | 0070 | |
| <u> </u> | and unsolicited use. | | | | |
| 1.4 | Application Logging | | | | |
| | Documentation | | | | |
| | Documentation describing registry | | | | |
| | capability to maintain database logs | 100% | 90% | 93% | |
| | and activity logs, provided to demonstrate conformance with | | | | |
| | | | | | |
| | Section 7 of the Data Exchange Standards. | | | | |
| 1.5 | Time Validation Plan | | | | |
| 1.5 | Specific procedures for validating | | | | |
| | server time on a periodic basis to | 90% | 56% | 80% | |
| | allow successful data exchange. | | | | |
| 1.6 | Version Change Management | | | | |
| 1.0 | Procedure providing a clear migration | | | | |
| | path to upgrade from version to | 90% | 67% | 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 | 95% | 1000/ | 97% | |
| | outlined in Annex H of the DES, which | 95% | 100% | 97% | |
| | 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 | 89% | 95% | 93% | |
| | tests outlined in Annex H of the DES, | | | | |
| | which are required of a registry prior | | | | |
| | to being authorized to submit | | | | |
| 4.0 | production transactions to the ITL. | | | | |
| 1.9 | Operational Plan | | | | |
| | Plan ensuring that the Registry has | | | | |
| | appropriately planned and staffed | 74% | 86% | 78% | |
| | their operational requirements, so that | 1470 | 00% | 10% | |
| | the initial standards and requirements | | | | |
| | will be addressed on an ongoing basis. | | | | |
| | ນລວເວ. | | l | l | |

¹ 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 | Q | | 0 |
| 2.3 | Establish basic Web service communication | 0 | C | 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 | 0 | | |
| 3.1 | Issuance | 0 | | |
| 3.2 | Conversion | 0 | 0 | 0 |
| 3.3 | External Transfer | 0 | 0 | |
| 3.4 | Cancellation | 0 | 0 | |
| 3.5 | Retirement | 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 | 0 | | |
| 4.2 | Conversion Transaction Tests | 0 | | |
| 4.3 | External Transfer Transaction Tests | 0 | | |
| 4.4 | Cancellation Transaction Tests | 0 | 0 | |
| 4.5 | Expiry Date Change Transaction Tests | 0 | | |
| 4.6 | Retirement Transaction Tests | 0 | 0 | |
| 4.7 | Replacement Transaction Tests | 0 | | |
| 4.8 | Carry-Over Transaction Tests | 0 | 0 | 0 |
| 5. | EU ETS Member Registry Test Cases | | | Ø |
| 5.1 | Account Management Web Services | | | Ø |
| 5.2 | Internal Transfer Transaction Tests | | | Ø |
| 6. | Test Cases (CDM Registry) | | | \odot |
| 6.1 | Issuance Transaction Tests | 0 | 0 | Ø |
| 6.2 | Internal Transfer Transaction Tests | | Ö | Ø |
| 6.3 | External Transfer Transaction Tests | | D | Ø |
| 6.4 | Cancellation Transaction Tests | | | O |
| 6.5 | Expiry Date Change | | | O |
| | Transaction Tests | | | |

4 Initialization Recommendation (by ITL Operator)

| Recommendation | Yes No | |
|----------------|-----------|--|
| Comments | | |

5 Initialization Authorisation (by ITL Administrator)

| Authorization | Yes No | 0 | |
|---------------|-----------|---|--|
| Comments | | | |

Independent Assessment Report of the national registry of Ukraine

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 | | | |