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Certificate No. C - 00021

ITSO Certificate of Compliance

To: Ecebs Ltd.

For : RBS AMS HOPS Full AMS functionality and Accounting, Action and hotlisting) with Collect And Forward (v2)

This is to certify that the above product has been tested as required by ITSO for compliance against ITSO TS 1000-0 Specification Version: 2.1

Test Reports Ref: RBS/CER_001/01 to RBS/CER_002/08

Date: 20 June 2005 to 21 September 2006

This product supports the functions : ITSO HOPS - AMS and Collection & Forwarding – Accounting – Action & Hotlisting – POST to HOPS queries and communicates within an ITSO environment as listed in Schedule A of this Certificate.

This product may only be used by ITSO Licenced Members complying with the conditions and constraints listed in Schedule B.

Signed for and on behalf of ITSO : 

Title: COMPLIANCE MANAGER

Dated : 11 OCTOBER 2006

Certificate Valid until : 10 OCTOBER 2013



Schedule A

The HOPS receives Class 1 transactions from the POSTs and distributes them to the appropriate HOPS functions - "on us" stored in database for use by the Accounts function and "not on us" enveloped to external HOPS.

The HOPS also receives transactions in a Class 2 "envelope" message and stores for use by the Accounts functions. It also provides Message Store, Audit, Journal, Error, Management Reporting and archiving services.

A bank of HSAMS is also present.

The HOPS provides full AMS functionality with support for interfaces to ISMS, POSTS and external HOPS.

Full Accounting, POST to HOPS queries, Data Correction Records, Action and Hot lists are also provided.

Shell accounts and their supporting Transaction Records are fully supported; the appropriate accounts are created and updated when the Transaction Records are processed.

All IPE TYPs and their supporting Transaction Records are fully supported; the appropriate accounts are created and updated when the Transaction Records are processed.

Shell and IPE Hot and Action listing is fully supported; list distribution to POSTs, list distribution to external HOPS, match event processing, reception of lists from external HOPS.

Data Correction records are fully supported; correction of Transaction Records received from POSTs, updating of Shell and IPE accounts to reflect data corrections, distribution of data correction records, reception of data correction records.

POST to HOPS queries are fully supported; the HOPS processes the POST query and generates the appropriate response.



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Schedule B

List of the conditions and/or constraints applied by ITSO.

This software / equipment has been tested and certified against the environment available at the date of testing (see Test Reports: RBS_CER_001_01 to RBS_CER_002_07).

The following general remarks apply:

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- In order to detect errors occurring in the message handling, the error log needs to be opened. The HOPS does not produce alerts to explicitly notify the HOPS user of problems. Also the overview of the messages in the message store does not always indicate whether the message had an error while processing (on batch header error).
- The maintenance of Interoperability List record data will be carried out by a third party Ticket Management System (TMS). The TMS is not tested. It is tested that the AMS forwards the messages correctly and puts the values correctly in the appropriate tables.
- NAK with reason: "the hashmac in message xxxx could not be verified for request id xx." Is used in case of a wrong hash, wrong mac or bad connection with the HSAMs. No distinction between these three cases is made.
- An ISMS_IREQ_CHANGE_INVENTORY message is only used when an AMS is relinquishing control or taking control of ISAMs.
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- Shell Account is created when the Shell destination is that of the HOPS. This is checked by comparing the OID in the ISRN with the OID of the shell owner destination.
- IPE account is created when the IPE destination is that of the HOPS. This is checked by comparing the OID in the IPEID with the OID of the IPE owner destination.
- In case of space limitations only the most recent and highest priority hot/action list entries are sent. A hot list received from another HOPS has the lowest priority. Hot lists or action lists aren't appended.

Any Licenced Operator wishing to use this device should pay detailed attention to the functionality tested as defined in the Test Report (Ref: RBS/CER_002/07) which should be available from the Supplier.