

## MultiService Forum Procedures Document

Title: **Policy Procedures for Recorded Trace Files in GMI 2008**

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### Abstract:

During the GMI 2008 Interoperability Event, all test traces and results shall be recorded, permitting all results from to be correlated and analyzed in an attempt to validate the MSF Implementation Agreements. This document contains the procedures for recording, viewing, retrieving, and analyzing test results in keeping with the interests of the MSF and the confidentiality of its membership and its GMI participants.

### Legal Statement

By submitting this contribution, the representative(s) of the source company (ies) acknowledge reading and agree to the MSF IPR Policy Statement.

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# 1 The MultiService Forum

The MultiService Forum is a global association of service providers, system suppliers and test equipment vendors committed to developing and promoting open-architecture, multi-service Next Generation Networks (NGNs). Founded in 1998, the MSF is an open-membership organization comprised of the world's leading telecommunications companies. The MSF's activities include developing Implementation Agreements, promoting worldwide compatibility and interoperability of network elements, encouraging input to appropriate national and international standards bodies and providing environment in which to test physical deployment scenarios.

GMI 2008 will focus on providing a technical validation of the MSF Release 4 Architecture and supporting Implementation Agreements as the basis for interoperability between vendors within practical network deployments.

The MSF Release 4 Architecture and Implementation Agreements are particularly focused on: IMS as a basis of carrier-grade session control; Service Oriented Architecture (SOA) as a mechanism for rapid service creation with access to IMS session control; IPTV and location-based services as representative emerging services; elaborated QoS control as an essential underpinning for content-intensive services such as IPTV; the ability to monitor services from the user point of view; practical deployment scenarios that focus on realistic network evolution.

GMI 2008 will provide direct marketing value to the MSF membership by demonstrating their commitment to open, interoperable multi-vendor NGNs.

## 2 Scope of This Document

This document provides a set of procedures to govern the collection, recording, and access to any and all trace files or captures from the GMI 2008 test event. During the GMI 2008 Interoperability Event, all test captures, traces and results shall be recorded, permitting all results to be correlated and analyzed in an attempt to validate the MSF Implementation Agreements. This document also governs the recording, viewing, retrieving, and analyzing of test results in keeping with the interests of the MSF and the confidentiality of its membership and GMI participants.

## 3 Captures, Trace Files, and Test Results

During the GMI 2008 Event, testing shall be executed by participating vendors under the guidance of Host Site Managers and Event Monitors. Once testing commences, it is expected that each vendor shall keep traces and captures from each test scenarios in which they participant. Vendors shall only be responsible for the captures relevant to their specific equipment involved in the test scenarios. Vendor traces shall be captured in standard PCAP format. Proprietary captures shall not be accepted.

Once traces have been captured in standard PCAP format, it is the responsibility of the individual vendor to submit their test traces to the Event Monitor to be uploaded in the GMI Test Tool (MERLIN). Vendors DO NOT have the capability to upload trace files in

MERLIN, this is the sole responsibility of the Event Monitor, or the Host Site Manager in the event that an Event Monitor is unavailable.

### **3.1 Vendor Access to the GMI 2008 Test Tool (MERLIN)**

During GMI 2008 testing, it is the responsibility of each participating vendor to keep traces and captures of each of the test scenarios that they participate in. Once captured in standard PCAP format, these traces shall be made available to Event Monitors. Event Monitors shall upload the traces into the GMI 2008 Test Tool (MERLIN). Vendors shall be granted read only access through a vendor login to any trace file or capture relevant to active testing involving their product. At no point shall a vendor have access to captures or traces that do not involve their product. Vendor access to MERLIN is designated as "Access Level 1."

In the event of a test failure, the vendors participating in the failed test shall cross-reference and share any files and captures relevant to the failure with the other vendor so that the test failure may be addressed and, ultimately, corrected. It is hoped that any vendor involved in a failed test case would share the captures and trace files relevant to rectifying the failure. In the event that three or more vendors are implicated in a failed test scenario, it is hoped that all relevant trace files and captures will be shared between vendors so that the test failure can be rectified accordingly. Should any participant involved in a failed multi-vendor test scenario decline to share captures and traces relevant to the failure, the on-site Event Monitor shall be notified. The Event Monitor, or when necessary the Host Site Manager, is responsible for handling these situations on a case-by-case basis.

Vendors wishing to share product captures and trace files with another vendor are welcome to form a bilateral agreement. Bilateral agreements shall not involve the MultiService Forum including, but not limited to, captures and trace files stored on the GMI 2008 Test Tool (MERLIN).

Vendors shall also be given "read-only" access to the scheduling component of the GMI 2008 test tool through their vendor login. Any changes to the GMI 2008 Schedule shall be logged by the relevant event monitor or the scheduling committee as a whole.

### **3.2 Event Monitor Access to the GMI 2008 Test Tool (MERLIN)**

Event Monitors shall be responsible for generating test record instances using the test tool for all intra-site tests and uploading all relevant PCAP files. Event Monitors shall also be responsible for generating record instances for any inter-site tests where the originating side of the session resides in the local site and for uploading all captures and trace files relevant for those test record instances submitted to them by participating vendors. As such, Event Monitors shall be granted full access to enter information and PCAP files relevant to their host site in MERLIN.

Event Monitors shall also be given read access to any files uploaded at their site so that the MSF Implementation Agreement under test can be validated in the event of an interoperability failure between three or more vendors. At no point will Event Monitors be granted access to files uploaded at other host sites. Event Monitor access to MERLIN is designated as "Access Level 2."

In the instance of an interoperability failure during testing, Event Monitors shall notify the GMI Technical Coordinator and the MSF Technical Chair. It shall be the responsibility of the GMI Technical Coordinator and the MSF Technical Chair to investigate the failure.

### **3.3 Host Site Manager Access to the GMI 2008 Test Tool**

Host Site Managers shall be responsible for overseeing all testing activities at their respective host site and may be called on to generate a test instance or upload PCAP files using MERLIN. Accordingly, Host Site Managers shall be granted the ability to generate test instances and full read and write access to all captures relevant to the intra and inter-site testing occurring at their respective facility, on the same level with the Event Monitors. Host Site Manager access to MERLIN is designated as “Access Level 2.”

### **3.4 GMI Coordinator Access to the GMI 2008 Test Tool (MERLIN)**

In the event of a test failure, the GMI Technical Coordinator in collaboration with the MSF Technical Chair shall be responsible for investigating the test failure. Accordingly, the GMI Technical Coordinator shall be granted full access to all trace files and captures relevant to all Host Sites, vendors, and test scenarios. GMI Technical Coordinator access to MERLIN is designated as “Access Level 3.”

### **3.5 MSF Interoperability Working Group Chair Access to the GMI 2008 Test Tool (MERLIN)**

In the event of a test failure, the MSF Interoperability Working Group Chair in collaboration with the GMI Technical Coordinator shall be responsible for investigating the test failure. Accordingly the MSF Interoperability Working Group Chair shall be granted full access to all trace files and captures relevant to all Host Sites, vendors, and test scenarios. MSF Interoperability Working Group Chair access to MERLIN is designated as “Access Level 3,” the same access level as the GMI Technical Coordinator.

### **3.6 GMI Scheduling Committee Access to the GMI 2008 Test Tool (MERLIN)**

Members of the GMI Scheduling Committee shall have full read and write access to the scheduling component of the test tool. This access shall allow them to upload schedules prior to the event and change them during the test event based on feedback from event monitors and participants. Scheduling Committee access to MERLIN is designated as “Access Level 4.”

Members of the Scheduling Committee are expected to notify the entire Scheduling Committee when changes are made to the test schedule to ensure effective and accurate inter-site testing.

Note that the GMI Coordinator, as a member of the GMI Scheduling Committee, also has “Access Level 4.”

### **3.7 Levels of Access to the GMI 2008 Test Tool (MERLIN)**

The four different levels of access defined in sections 3.1-3.6 of this document are summarized below:

**Access Level 1:** Access to vendor specific trace files shall be granted to on a read-only basis. A vendor shall only have access to the specific files and traces captured by their

product during testing. Vendor shall also be granted read only privileges to the GMI 2008 Scheduling component of MERLIN. This access will be granted through vendor logins, which can be distributed to any vendor representative.

**Access Level 2:** Ability to generate test record instances and upload capture files to those test record instances. Subsequent access to all such uploaded traces files at their own specific Host Site shall also be granted to the Event Monitors and Host Site Managers. Event Monitors and Host Site Managers shall not have access to the traces files for any other Host Sites. This level also permits read only privileges to the GMI 2008 Scheduling component of MERLIN.

**Access Level 3:** Access to all trace files for all Host Sites, vendors, and test scenarios shall be granted to the GMI Technical Coordinator and the MSF Interoperability Working Group Chair. Access level 4 also assumes full read access to the scheduling component of MERLIN.

**Access Level 4:** Full read and write access to the scheduling component of MERLIN so that schedules can be entered and changed by any member of the scheduling committee with proper jurisdiction from the Scheduling Committee as a whole.

Note that a given individual may fill more than one role and may thus be granted more multiple access levels to MERLIN (e.g. the GMI Coordinator is also a member of the Scheduling Committee and thus is simultaneously granted access levels 3 & 4 respectively).

## **Appendix A: Event Monitor Access to the Scheduling Interface of MERLIN 2008**

In addendum to sections 3.2, 3.6, and 3.7 of this document, it should be stated explicitly that GMI 2008 Event Monitors are officially considered part of the GMI 2008 Scheduling Committee. As such, Event Monitors shall be accorded "Access Level 4" and shall have full read and write access to the Scheduling Component of MERLIN 2008, in accordance with section 3.7 of this document.

**Access Level 4:** Full read and write access to the scheduling component of MERLIN so that schedules can be entered and changed by any member of the scheduling committee with proper jurisdiction from the Scheduling Committee as a whole.