

**MSF Project Requirements Document
For
Global MSF Interoperability 2006
(GMI 2006)**

**Update
January 2006**

"Global MSF Interoperability 2006" Project Requirement Document

Table of Contents

Contents

1.Objectives	4
2.Scope	4
3.Documents	4
3.1.Frameworks and Implementation Agreements:	5
3.2.MSF Project Planning Documents	5
3.3.Results and Marketing Documentation	5
4.Network Elements and Test equipment	5
4.1.Network Elements	5
4.2.Test Equipment	6
5.Network Management	7
6.Marketing	7
7.Financials	7
8.Location.....	8
9.Plugfest	8
10.Legal	9
11.Project Planning	10
11.1.Major Milestones	12
11.1.1.Customer Requirements Document (CRD)	12
11.1.2.Project Requirements Document (PRD)	12
11.1.3.Host Requirements Document	12
11.1.4.Marketing Plan	12
11.1.5.Financial Plan.....	12
11.1.6.Location and Venue Selection	12
11.1.7.Finalize Scenario Selection.....	12
11.1.8.Event Design Document	13
11.1.9.Project Plan.....	13
11.1.10.Hire Event Coordinator.....	13
11.1.11.Event Tool Strategy.....	13
11.1.12.Site Specific Logistic Plans	13
11.1.13.Architecture & Implementation Agreements.....	13
11.1.14.Request for Participation.....	13
11.1.15.Event and Non-Disclosure Agreements	14
11.1.16.Hire Event Monitors.....	14
11.1.17.Critical Mass.....	14
11.1.18.Test Plans	14
11.1.19.Addressing Plan Published	14
11.1.20.GMI 2006 Event	14
11.1.21.White Paper	14
12.Results Reporting and Restrictions.....	14
12.1.Results Reporting.....	15
12.2.Restrictions	15
13.Process Management and Risks	15
13.1.Process Management	16
13.2.Risks	16
14.Roles & Responsibilities.....	17
14.1.GMI 2006 Planning Committee	17
14.2.Technical Committee	17
14.3.Marketing, Awareness and Education Committee	17

"Global MSF Interoperability 2006" Project Requirement Document

14.4.MSF Board of Directors.....	18
14.5.AMS	18
15.Revision History	18
Appendix I: GMI 2006 Applicable IAs.....	20

Note: The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in the Technical Committee Operating Procedures of 30 August, 2005.

"Global MSF Interoperability 2006" Project Requirement Document

1. Objectives

The primary objective of "Global MSF Interoperability 2006" is to demonstrate multi-vendor interoperability of carrier class, QoS enabled, end to end voice and multimedia services originating and terminating on both MSF R3 and IMS networks, using MSF Implementation Agreements.

The MSF intends to hold this industry event between October 16-27, 2006. Dates are subject to change due to lab availability.

2. Scope

As a follow-up to the very successful GMI 2004 event, the MSF will host a third round of Interoperability testing to be known as GMI 2006. The network under test will be capable of demonstrating key management functions, with Quality of Service and Security attributes at the same time, as well as providing a rich base of applications that will equal and surpass what is available in existing PSTN networks today. The primary objective of GMI 2006 is to demonstrate multi-vendor interoperability using MSF Implementation Agreements.

The Project Requirements Document (PRD) will outline the steps and processes required to bring all of the technical and program management aspects into alignment in order to meet the primary objectives of the GMI 2006 event.

In order for an event such as this to succeed, a great number of resources need to be harnessed and co-ordinated. Monitors and demo software will need to be run in all of the regional sites to show the reality of the Multi-service Switching Systems that are created. This will require not only the underlying technology to support the scenarios that have been defined, but will also involve management applications that will be supported and illustrate the power of the underlying technology.

Since the GMI 2006 event covers a broad spectrum of capabilities and equipment, it is expected that the participants of this event will include equipment and software providers that will have the capability to support the technology and protocols that are required.

3. Documents

This section will list the documents that will be referenced or will result from the event events as planned. This list may change as the project evolves over time. Any changes WILL need to be treated as changes to the scope of the

"Global MSF Interoperability 2006" Project Requirement Document

event and will need to be documented in a follow-on PRD and approved by the TC.

3.1. Frameworks and Implementation Agreements:

The list of Implementation Agreements is included in Appendix I. This list constitutes the formal requirement for the event for the Technical committee. Once the PRD is approved, any additional required IAs WILL require a change process to this PRD and WILL require a TC vote.

3.2. MSF Project Planning Documents

The following documents WILL be prepared in response to the Customer Requirements Document (CRD) as approved by the MSF BoD:

- Project Plan
- Project Requirements Document (PRD)
- Event Design Documents
- Event Agreements
- Non-Disclosure Agreement (NDA)
- Results Document (s)
- Participant Checklist
- Marketing Plan
- Financial Plan

3.3. Results and Marketing Documentation

The following documents WILL be prepared:

- Presentations
- White Papers
- Reference Documents
- Press Releases

4. Network Elements and Test equipment

4.1. Network Elements

Participants will be invited to contribute to the following list of network elements and equipment which the participants may bring as contributors to the event.

- MPLS Core Router
- Static Call Agent
- Dynamic Call Agent

"Global MSF Interoperability 2006" Project Requirement Document

- Routing Call Agent
- HSS
- SIP Proxy
- SIP (UA) Soft Phone
- Media Gateway
- Access Gateway
- Signaling Gateway
- Bandwidth Manager
- Session Border Gateway – NC
- Session Border Gateway - NE
- Parlay (X) Application Server
- Parlay (X) Gateway
- SIP Application Server
- Service Broker
- Media Server
- SCP
- Service Logic Gateway
- Network Management Systems

IMS elements

- HSS
- S-CSCF
- I-CSCF
- P-CSCF
- SCIM

Each participant MAY choose to support a single element or multiple elements from the following list dependent upon their specialty.

However, each participant MUST comply with the scenario descriptions and requirements as published by the MSF.

4.2. Test Equipment

The event will also require the support of test equipment suppliers in an effort to analyze protocol and network issues which may arise during the event. The following is a list of proposed gear that may be required but is not limited to this list only.

- Network Analyzers

"Global MSF Interoperability 2006" Project Requirement Document

- Protocol Analyzer
- Emulators
- Load generation equipment (SIP / Megaco)
- 3GPP (IMS) protocol conformance equipment
- GE/RAN emulation equipment
- Voice & Video quality measuring equipment

5. Network Management

The network management infrastructure will be significant to the success of the event and provide a means by which to demonstrate the capabilities of the MSF architecture. The event will demonstrate a solution that allows for geographically distributed equipment. It is essential to show simple network provisioning and reporting for those elements that are participating. This overall strategy is to combine participant element managers with a prototype of higher level network management produced in cooperation with the TeleManagement Forum (TMF) and its members.

Solutions outside of the TMF are also welcome. Each participant **MUST** comply with the relevant Implementation Agreements and Architectural Framework documents. The following elements/processes would be considered as:

- Monitoring
- Provisioning
- Configuration

6. Marketing

The MSF GMI 2006 marketing requirements plan **WILL** be defined in a later document to be released as the "GMI 2006 Marketing Plan" but **SHOULD** include all of the following aspects:

- Advertising
- Value statements
- Recruitment
- Press Management
- Participant Release
- Logo creation and usage requirements
- Marketing Budget
- Sponsorship prospectus

7. Financials

The budgetary requirements will be defined in the "MSF GMI 2006 Financial Plan" and will require input from all aspects of the event planning efforts to accurately predict the appropriate amount of required funds and participation costs associated with managing the event. It is expected that for each of

"Global MSF Interoperability 2006" Project Requirement Document

these events, the largest impact to the overall cost is expected to be the following,

- Bandwidth Requirements for Support of Virtual Testing
- Location fees
- Advertising
- Printing and Reproduction
- Travel
- Reporting and Publications
- Press Releases
- Contracting Fees

The complete list of expenses is not limited to the list above and will be a part of the GMI Financial Plan.

8. Location

GMI 2006 will be hosted at multiple locations around the world to provide the greatest benefit for MSF and GMI 2006 participants. Due to the complexity of organizing and managing a multi continent interoperability test, the testing WILL be limited to 4-5 locations. The physical locations of the host(s) have yet to be determined but each MUST support the following requirements:

- Accessible for all participants
- Meets all marketing requirements including access for press
- Accessible to hotels, dining and commuting facilities
- Meets budgetary requirements
- Represents a "global" environment
- Conforms to all technical requirements as defined

With the above listed criteria, the MSF will target an event that will span three continents, Europe, Asia and North America, with support for its international membership. The goal is to select a neutral site within each continent to act as a host for which equipment manufactures and suppliers can test and demonstrate their equipment and implementations. A primary target for hosting such an event would include carrier labs or independent lab hosts. The Host Selection committee, defined in the host selection document, SHOULD select host locations that WILL NOT charge the MSF for the use of their facilities.

9. Plugfest

The CRD (MSF2005.254) requested that the GMI 2006 Planning team consider introduction of a plugfest¹ event to showcase the ability of the MSF physical architecture to support services and applications. While requesting the plugfest, the BoD gave three constraints that the team needed to take into account:

¹A plugfest is defined as an event where application and service vendors can test their products within an stable GMI 2006 environment.

"Global MSF Interoperability 2006" Project Requirement Document

As part of evaluating the feasibility of the "plug-test", the following requirements should be considered:

- 1) Inclusion of the "plug-fest" should not cause the GMI event to extend beyond 14 days.
- 2) Inclusion of the "plug-fest" should not jeopardize the quality of the rest of the GMI event.
- 3) The "plug-fest" would require trouble shooting support in order to evaluate where/why services failed.

The planning team acknowledges that the plugfest is an important part of proving the MSF solution in that we need to show how the structure can be used to provide the variety of services that are one of the goals of the MSF solutions. Fitting it into the GMI 2006, however, would cause several problems including:

- The attention of those doing the testing would be diverted away from testing the IAs that are the focal point of the test.
- The GMI event is already long enough that adding extra days to the testing, either during any breaks that may be decided on, or after the regular events end would be too great a burden for both hosts and vendors as it would require supervision and trouble shooting.
- Deciding on the components of the stable system architecture that need to be supplied for the plugfest would be impossible given the mix of vendors and equipment present at the GMI 2006 event.

The GMI planning team, therefore, recommended that any plugfest be designed as a follow on event to the GMI 2006 and that this event be planned with marketing as the primary consideration. The planning team also recommended that it be planned to coincide with conferences of some other event for maximum marketing exposure.

Therefore, there a plugfest WILL Not be included as part of GMI 2006. Any plugfest SHOULD be defined as a separate event by a separate planning team.

10. Legal

In order to participate in the event as defined, it WILL be required that all participants sign two agreements. The Event Agreement WILL outline the rules and procedures that WILL be followed by all participants involved in order to ensure a level playing field. The second is a Non-Disclosure Agreement (NDA) for participants and management staff to agree to in order to aid in coordinating the specific gear and technology that will be used.

"Global MSF Interoperability 2006" Project Requirement Document

Only participants who provide network element(s), facilities, support, results reporting or test equipment or consulting will be permitted to participate in the closed portion of the testing. There WILL be no observers. The only exception is at the discretion of the MSF planning team and Board of Directors. There MAY be scheduled times when the testing facilities will be open to the press and other invited guests.

11. Project Planning

This section will be used to list the high level milestones and their definitions. These will be used as overriding guidelines to monitor the progress at an executive level. This provides a list of major milestones and identifies the deliverables that will be required to manage a complex effort such as the GMI 2006 event.

A full detailed project plan WILL be released once all preliminary planning documents have been completed and agreed upon.

Major Milestone	Owner	Target Date
Customer Requirements Document	Roger Ward	Aug 05
Host Requirements Document	Ken Mills	Oct 05
Project Requirements Document	Avri Doria	Dec 05
Financial Plan	David Francisco	Dec 05
Marketing Plan	MAE	Nov 05
Finalize Scenario Selection	TC	Feb 06
Detailed Project Plan	GMI Planning Team	Jan 06
Hire Event Coordinator	Selection Team	Jan 06
Locations (Host) and Venue Selection	GMI Planning Team	Jan 06
Request for Participation	MAE	Feb 06
Event Tool Strategy	GMI Planning Team	Jan 06
R3 Architecture Final	Architecture	Jan 06
Event Design Document	TC	Feb 06
Logistics Plan	GMI Planning Team	Mar 06
Event & Non-Disclosure Agreements Signed	AMS	Apr 06

"Global MSF Interoperability 2006" Project Requirement Document

Critical Mass Decision	MAE	May 06
IAs Final	Protocol & Control	May 06
Hire Site Monitors	Event Coordinator	Jun 06
Addressing Plan Published	TC	Jul 06
Test Plans Complete	Interoperability Group	Jul 06
GMI 2006 Event	MSF Project Team	Oct 06
Final White Paper Release	MAE	Nov 06

"Global MSF Interoperability 2006" Project Requirement Document

11.1. Major Milestones

11.1.1. Customer Requirements Document (CRD)

The CRD (Customer Requirements Document) defines the high level requirements that were agreed to by the MSF Board of Directors in response to the member's interest in a full interoperability event.

11.1.2. Project Requirements Document (PRD)

The PRD (Project Requirements Document) is the response to the CRD that describes the intent and how the requirements listed in CRD will be met. The PRD also provides an outline of the event activities with the high level list of project milestones. This will be followed up with detailed project plans, test profiles and test plans.

11.1.3. Host Requirements Document

The Host Requirements document identifies all items that a host will have to consider when evaluating their response to participate in the event as described in the PRD.

11.1.4. Marketing Plan

The Marketing Plan details the events and steps necessary from pre-event marketing to solicit participants through post-event marketing to disseminate the results to the industry.

11.1.5. Financial Plan

The Financial Plan details the budgetary requirements needed to ensure that the event can be a financial success as well as define the appropriate cost structure for participants. It is expected that the event will be self-funding.

11.1.6. Location and Venue Selection

This milestone will identify the physical locations and events that will be used to host the GMI 2006 demonstration.

11.1.7. Finalize Scenario Selection

This is meant to ensure the scenario definition stage is completed, although the work will continue as the scenarios evolve into completed test plans, test profiles and Implementation Agreements (IAs) as needed in support of each scenario.

"Global MSF Interoperability 2006" Project Requirement Document

11.1.8. Event Design Document

The Event Design Document identifies the required network configuration and capabilities of how and what should be tested based upon the defined requirements.

11.1.9. Project Plan

This is in support of the final project plans for the events. These plans will detail the events and milestones that must be met in support of the events and their respective owners.

11.1.10. Hire Event Coordinator

An Event Coordinator who will manage the logistics of the event will be hired by a selection committee.

11.1.11. Event Tool Strategy

The milestone involves making the decision of what software tools will be used to facilitate the running of the event and recording of event data. Development of the tools will involve either hiring a tool smith or arranging for AMS to augment their in house tools to accommodate the event. If the decision is to hire a tool smith, then this milestone includes not only the documentation for the tools to be created, but hiring the tool smith.

11.1.12. Site Specific Logistic Plans

This document contains the necessary host details per site, for example, but not limited to:

- travel information
- hotel information
- facilities access arrangements
- hours of operation (e.g. start of test, breaks, end of testing)
- planned days off
- shipping instructions and arrangement details
- requirements for customs clearance

11.1.13. Architecture & Implementation Agreements

This milestone tracks the completion of all required TC documents excluding test plans. Completion of this requirement is a prerequisite to meeting the final versions of the test plans.

11.1.14. Request for Participation

This milestone tracks the information package and request that will be released to the membership and possibly the industry to become a participant of the GMI 2006 event. In addition to providing requirements, it includes agreements that must be signed by all participants in order to participate in GMI 2006.

"Global MSF Interoperability 2006" Project Requirement Document

11.1.15. Event and Non-Disclosure Agreements

All participants must sign both the Event and Non-disclosure Agreements if they wish to participate. This milestone is a prerequisite of the Critical Mass milestone.

11.1.16. Hire Event Monitors

For every site at least one MSF Event Monitor will be hired to support the testing and to record the results of all tests unless the Event Monitors are provided by the host company.

11.1.17. Critical Mass

This milestone tracks the number of MSF members that have committed to participate in the Global Interoperability event before it is opened up to the companies not currently registered as MSF members. This is a go, no-go date and should be tracked.

11.1.18. Test Plans

Create the test plans that will meet the objectives of the event as defined. Tracks the completion of the test plans that will be used for the GMI 2006 event.

11.1.19. Addressing Plan Published

This milestone documents the addressing scheme that will be used for all equipment to be tested. It will include plans for both private and public IP addresses, both IPv4 and IPv6.

11.1.20. GMI 2006 Event

This is checkpoint is the GMI event itself.

11.1.21. White Paper

Publish the post event White Paper.

12. Results Reporting and Restrictions

The overall reporting structure of the event will be closely monitored by the MSF and the project team to ensure that the test plans were executed successfully and that the actual interoperability aspects of the event were a success. The results WILL be documented on a test case basis and will be non-attributable to specific participants. Individual or combined press releases are permitted within the guidelines established within the NDA. All press releases MUST be approved by the MSF Marketing Project Manager prior to their release.

12.1. Results Reporting

The results will be documented via a tracking mechanism that will allow the MSF to ensure that all of the goals are met throughout the event.

"Global MSF Interoperability 2006" Project Requirement Document

However, the document will not show how any individual participant performed or the detailed results. It will rely on each participant to demonstrate achievement for a specific implementation prior to participating in any interoperability event.

All protocol issues found or discovered will be logged and addressed by the appropriate MSF Working Group. These issues will be analyzed to resolve any potential problems with the IAs as defined within the MSF environment.

12.2. Restrictions

This event WILL require that each participant sign an Event Agreement. This agreement will be in place to protect all participants from being mentioned in a negative way and to prevent others from claiming unwarranted success. Thus, the only group allowed to state a list of participants will be the MSF or other authorized party as designated by the MSF - with no details about who was successful and who was not. This event WILL NOT certify a particular network implementation and it WILL NOT validate a specific implementation of a protocol or interface. Each participant MAY state that they "successfully participated at the event" and that they "successfully participated in a specific test case(s)". However, a single vendor's specific test results MAY be mentioned and a vendor MAY state that they have "passed" the testing within the guidelines specified in the NDA. Also, each participant MAY issue their own press releases, which MAY contain information on who they are partnering with at the event only if they obtain express written approval from their partner(s). Use of logos and labels will be fully outlined in the Event Agreement.

A full list of restrictions can be found in the event agreement and includes but is not limited to:

- Participants cannot claim single success over and above another participant
- Participants will only work on their own company gear.
- Identified lab staff will work as liaisons between different companies to rectify any issues.
- Lab staff will be notified of new software drops to ensure lab stability

13. Process Management and Risks

This section describes the process that will be used to ensure a successful event including a feedback loop and checkpoints. This process will be followed in conjunction with the project plan thus providing a method for the members and external participants of the event to follow the event progress.

"Global MSF Interoperability 2006" Project Requirement Document

13.1. Process Management

Document Approval Process

All documents created by the teams involved in the events WILL follow the rules as described by the MSF Bylaws and Technical Committee Operating procedures.

Document Distribution Process

All documents WILL be published via e-mail for comment and WILL be posted as a contribution to the MSF web site as a part of the Protocol and Control Working Group, Architecture Working Group, Management Advisory group or Interoperability Working Group.

Issue Resolution

It is expected that issues will arise and that concerns will be raised, in order to ensure that all issues are addressed. All issues WILL be addressed by the appropriate working group chair and reported on to the project committee. Any issues that cannot be resolved by the project committee WILL be sent to the MSF Board of Directors for resolution.

Reporting

It is expected that the Project Committee SHOULD report to the Board of Directors on progress via the TC Chair on a bi-weekly basis and the committee in general WILL present a report once per quarter to the general membership at the face-to-face technical committee meetings.

13.2. Risks

As with any event and event, the ability to address concerns and issues as they arise is always a major concern, the MSF will rely on the working group chairs, the TC Chair and the project team to identify the risks as they are exposed and suggest resolutions to each problem.

Current risks are currently listed below and will be addressed over the early stages of the project planning cycle:

- Identifying Participants
- Completing the Necessary Documentation
- Lab logistics and Potential Costs
- Network Management
- Lab and Test Logistics
- Logistical Resource (External Source)
- Lack of Participation (Critical Mass)

14. Roles & Responsibilities

"Global MSF Interoperability 2006" Project Requirement Document

Note: In the discussion below, the roles are determined by this PRD. The person assigned to the role may change during the course of the GMI 2006 planning year.

14.1. GMI 2006 Planning Committee

The GMI 2006 planning committee is responsible for coordinating the project planning necessary to achieve the objectives as defined by the Customer Requirements Document (CRD). This committee WILL report to the Board on the progress of the event planning cycle and WILL monitor all related activities.

GMI 2006 Planning Committee

Technical Committee Chair, Project Lead	Avri Doria
Marketing Committee Representative	Satyanarayana Parimi
MSF Board Representative	David Francisco
Interoperability Chair	Andy Huckridge
Host Representative	Ken Mills
Participant Representative	Peter Chang
Project Coordinator AMS	Julianne Fitzpatrick
GMI 2006 Technical Coordinator	Kari Revier

14.2. Technical Committee

The Technical Committee is responsible for ensuring that technical aspects of the event will be met i.e. from creating the required documentation, to supporting the set-up and executing on of any event related activity.

MSF Technical Committee

Technical Committee Chair	Avri Doria
Technical Committee Vice Chair	Mitch Laman
Architecture Chair	Paul Drew
Architecture Vice Chair	Stuart Walker
Protocol & Control Chair	Chris Gallon
Protocol & Control Vice Chair	Wayne Cutler
Interoperability Chair	Andy Huckridge
Interoperability Vice Chair	Chanh Phung
Management Advisory	Yuzo Fujita

14.3. Marketing, Awareness and Education Committee

The MAE Committee is responsible for all marketing efforts associated with the event as defined in the GMI 2006 Marketing Plan. The committee is also tasked with identifying and recruiting participants for the GMI 2006 event.

"Global MSF Interoperability 2006" Project Requirement Document

MSF Marketing, Awareness & Education Committee

MA&E Chair	Neil Anderson
MA&E Vice Chair	Andy Jones

14.4. MSF Board of Directors

The MSF Board of Directors will be responsible for ensuring that all business and financial objectives have been maintained and that the value add for the membership at large is met.

MSF Board of Directors

President	Roger Ward
Vice President	Chris Daniel
Treasurer	David Francisco
Secretary (ex officio)	Naseem Khan
Member	Byung-Sun Lee
Member	James McEachern
Member	Eun-Ho Choi
Member	Mark Carroll
Member	Tatsuro Murakami

14.5. AMS

The AMS is responsible for assisting the overall event on coordinating all activities.

AMS

Director	Sara Hart
Project Coordinator	Julianne Fitzpatrick
Coordinator	Cindy Morgan

15. Revision History

Name	Date	Reason for Change	Revision Number
Avri Doria	07/25/05	Original Draft	0.1
Julianne Fitzpatrick	08/15/05	Per request review	0.2
Avri Doria	10/04/05	Add Plug-fest comments	0.3

"Global MSF Interoperability 2006" Project Requirement Document

Avri Doria	10/05/05	Add Dates to Milestone chart and made changes decided on in GMI planning Team Mtg.	0.4
Avri Doria		Post Nagoya Review Preparation for ballot	0.5
Avri Doria	11/09/06	Post GMI Team Review	0.6
Avri Doria	11/18/06	<ul style="list-style-type: none"> ● Updated for addition of Mc interface to the scope of work. ● Updated definition of Logistic Plan. ● Updated milestone dates based on GMI2006 Plan Approved by representative vote 19 Jan, 2006 	2.0

Appendix I: GMI 2006 Applicable IAs

MultiServiceForum - GMI 2006 IA Status - Last Updated 18 January 2006					
MSF IA Name	FG, NGN or 3GPP 1/f	MSF interface id	Description	Current Document	IA Reference
Media IA		MED-1	Media transport for GMI 2006	MSF-IA-SDP.001-FINAL (GMI 2004 starting point)	MSF-IA-SDP.002-FINAL?
IA for Diameter interface to Bandwidth Manager	Gq'/Gq	TC-0 TC-4	Interface between call/session control entity and the bandwidth manager (S-SBG-NE, P-CSC (MSF), S-SBG-NC, R2 CA, AS <->BWM)	Waiting first draft based on ETSI spec (due December)	MSF-IA-DIAMETER.001-FINAL?
S-SBG to D-SBG Interface Implementation Agreement	Go' ETSI IA	TC-1 MGC-3 ?	Interface between CA/S-SBG and the D-SBG (may also be between the BWM and the D-SBG ?)	msf2005.159.00	Could be based on H.248 in which case it will be another H.248 IA. Proposal submitted to be based on ETSI IA
Bandwidth Manager to core/Edge router IA	Rc	TC-2	Interface between the bandwidth manager and a core/edge router for the purposes of tracking and or requesting network resources. May be null for GMI 2006		TBD
Bandwidth Manager to GGSN IA	Gx	TC-5	Interface between the bandwidth manager and the GGSN	TBD	TBD
IA between a call server and a MGCP based UA (RG/IAD)		MGC-0	Interface between a residential gateway or MGCP user agent and a call server.	MSF-IA-MGCP.001-FINAL MSF-IA-MGCP.002-FINAL	Re-use existing GMI 2004 IAs.
IA between a call server and an access gateway		MGC-1	Interface between an access gateway and a call server.	MSF-IA-MEGACO.005-FINAL msf2004.175.02	Needs ETSI IA and an update to the North American variant

IA between a call server and a trunking gateway		MGC-2	Interface between a call server and a trunking gateway.	MSF-IA-MECAGO.003-FINAL msf2004.073	Re-use GMI 2004 document, currently post straw ballot.
User agent to call agent		SESS-0	Interface between a SIP user agent and a SIP call agent	MSF-IA-SIP.003-FINAL Plus update to core SIP IA msf2005.040.02	Re-use existing GMI 2004 IAs.
SIP profile for an MSF R3 SIP Server	Gm Mw Mm	SESS-1, SESS-2, SESS-3, SESS-4, SESS-5	SIP IA covering the protocol requirements for R3 and then describing how these are applied to each of the interfaces. Note SESS-1 could re-use GMI 2004 IAs as an alternative		MSF-IA-SIP.013-FINAL
APP-0			Interface between a R2 Call agent and a Service Broker	MSF-IA-SIP.005-FINAL	Re-use existing GMI 2004 IA
IA for interfaces between the Service Broker and the S-CSC and application servers	ISC	APP-1	Interfaces between S-CSC (MSF) and SB, SB to AS, Service Logic Gateway, PARLAY/PARLAY X Gateway	No draft available.	
IA for the interface between a Service Broker and a Media Resource Broker		APP-2	Interface between the Service Broker and the MRB	No draft available, see msf2005.128	
SIP R3 Media		APP-3	Interface between		

				Based on MSF-IA-SIP.009-FINAL With update for video msf2005.132.00 and alternative options covered in msf2004.120.03	
IA for the Interface between a Parlay Gateway and a Parlay Application		APP-4	Interface between PARLAY Gateway and PARLAY Application	Based on MSF-IA-PARLAY.001-FINAL	MSF-IA-PARLAY.003
Implementation Agreement of Parlay X API for GMI 2006		APP-5	Interface between a Parlay X gateway and the application.	Current draft msf2005.135.01	MSF-IA-PARLAY.004
Implementation Agreement for the d2 and d3 interfaces for GMI 2006	Cx interfaces d2,d3	DB-0	Interface between the I-CSC (MSF) or S-CSC (MSF) and the HSS	Current Draft msf2005.130.00	MSF-IA-DIAMETER.002-FINAL
Implementation Agreement for the d4, d5, d6 and Sh-based d7 interfaces for GMI 2006	Sh interfaces d4, d5, d6, d7	DB-1	Interface between the AS or PARLAY / PARLAY X Gateway and the HSS	Current draft msf2005.131.00	MSF-IA-DIAMETER.003-FINAL
TBD	Si	DB-2	Service Logic Gateway to HSS	TBD may be NA	NOTE: IA NOT REQUIRED
NMS Interface for NGN Management				msf2005.188.01	
Implementation Agreement for the 3GPP Mc Interface	Mc			MSF-IA-MC.001-FINAL	MSF-IA-MC.001-FINAL
Physical Scenarios for GMI 2006 (IMS)				msf2005.092.00	MSF-TR-SCN06-001-FINAL
MSF Release 3 Architecture				msf2005.179.00	MSF-ARCH-003.00-FINAL