Enabler Release Definition for DiagMon Management Object

Approved Version 1.2 – 08 Oct 2013

Open Mobile Alliance

OMA-ERELD-DiagMon-V1_2-20131008-A

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1. Scope

The scope of this document is limited to the Enabler Release Definition of DiagMon MO according to OMA Release process and the Enabler Release specification baseline listed in section 5.

2. References

2.1   Normative References

[DiagMon_EventCallDrop_DDF]	"MO DiagMon Trap Call Drop Event", Open Mobile Alliance™, OMA-SUP-MO_DiagMon_Event_CallDrop-V1_0, URL: http://www.openmobilealliance.org/
[DiagMon_EventDataSpeed_DDF]	"MO DiagMon Trap Data Speed Event", Open Mobile Alliance™, OMA-SUP-MO_DiagMon_Event_DataSpeed-V1_0, URL: http://www.openmobilealliance.org/
[DiagMon_EventGeographic_DDF]	"MO DiagMon Trap Geographic Event", Open Mobile Alliance™, OMA-SUP-MO_DiagMon_Event_Geographic-V1_0, URL: http://www.openmobilealliance.org/
[DiagMon_EventHardReboot_DDF]	"MO DiagMon Trap Hard Reboot Event", Open Mobile Alliance™, OMA-SUP-MO_DiagMon_Event_HardReboot-V1_0, URL: http://www.openmobilealliance.org/
[DiagMon_EventLogFull_DDF]	"MO DiagMon Trap Log Full Event", Open Mobile Alliance™, OMA-SUP-MO_DiagMon_Event_LogFull-V1_0, URL: http://www.openmobilealliance.org/
[DiagMon_EventQoS_DDF]	"MO DiagMon Trap QoS Event", Open Mobile Alliance™, OMA-SUP-MO_DiagMon_Event_QoS-V1_0, URL: http://www.openmobilealliance.org/
[DiagMon_EventReceivedPower_DDF]	"MO DiagMon Trap Received Power Event", Open Mobile Alliance™, OMA-SUP-MO_DiagMon_Event_ReceivePower-V1_0, URL: http://www.openmobilealliance.org/
[DiagMon_FuncAppExeInfo_DDF]	"MO DiagMon Function Application Monitoring", Open Mobile Alliance™, OMA-SUP-MO_DiagMon_Function_AppExeInfo-V1_0, URL: http://www.openmobilealliance.org/
[DiagMon_FuncAppMon_DDF]	"MO DiagMon Function Application Monitoring", Open Mobile Alliance™, OMA-SUP-MO_DiagMon_Function_AppMon-V1_0, URL: http://www.openmobilealliance.org/
[DiagMon_FuncAppUsage_DDF]	"MO DiagMon Function Application Data Usage", Open Mobile Alliance™, OMA-SUP-MO_DiagMon_Function_AppDataUsage-V1_0, URL: http://www.openmobilealliance.org/
[DiagMon_FuncBattInf_DDF]	"MO DiagMon Function Battery Info", Open Mobile Alliance™, OMA-SUP-MO_DiagMon_Function_BatteryInfo-V1_0, URL: http://www.openmobilealliance.org/
[DiagMon_FuncBrowserMon_DDF]	"MO DiagMon Function Browsing Monitoring", Open Mobile Alliance™, OMA-SUP-MO_DiagMon_Function_BrowserMon-V1_0, URL: http://www.openmobilealliance.org/
[DiagMon_FuncBuiltInTest_DDF]	"MO DiagMon Function Built In Device Test", Open Mobile Alliance™, OMA-SUP-MO_DiagMon_Function_BuiltInTest-V1_0, URL: http://www.openmobilealliance.org/
[DiagMon_FuncDataCallDataSession_DDF]	"MO DiagMon Function Data Call DataSession", Open Mobile Alliance™, OMA-SUP-MO_DiagMon_Function DataCallDataSession-V1_1, URL: http://www.openmobilealliance.org/
[DiagMon_FuncDeviceLoc_DDF]	"MO DiagMon Function Device Location", Open Mobile Alliance™, OMA-SUP-MO_DiagMon_Function_DeviceLoc-V1_0, URL: http://www.openmobilealliance.org/
[DiagMon_FuncManagementMobilityRejection_DDF]	"MO DiagMon Function Mobility Management Rejection", Open Mobile Alliance™, OMA-SUP-MO_DiagMon_Function_MMR-V1_0, URL: http://www.openmobilealliance.org/
[DiagMon_FuncMemory_DDF]	"MO DiagMon Function Memory", Open Mobile Alliance™, OMA-SUP-MO_DiagMon_Function_Memory-V1_0, URL: http://www.openmobilealliance.org/
[DiagMon_FuncMMSUs	"MO DiagMon Function MMSUsage", Open Mobile Alliance™, OMA-SUP-MO_DiagMon_Function_MMSUsage-V1_0,

age_DDF]	URL: http://www.openmobilealliance.org/
[DiagMon_FuncNFC_DDF]	"MO DiagMon Function NFC", Open Mobile Alliance™, OMA-SUP-MO_DiagMon_Function_NFC-V1_1, URL: http://www.openmobilealliance.org/
[DiagMon_FuncPaniclog_DDF]	"MO DiagMon Function Paniclog", Open Mobile Alliance™, OMA-SUP-MO_DiagMon_Function_PanicLog-V1_0, URL: http://www.openmobilealliance.org/
[DiagMon_FuncPhonebook_DDF]	"MO DiagMon Function Phonebook", Open Mobile Alliance™, OMA-SUP-MO_DiagMon_Function_Phonebook-V1_0, URL: http://www.openmobilealliance.org/
[DiagMon_FuncQoS_DDF]	"MO Diagmon Function QoS", Open Mobile Alliance™, OMA-SUP-MO_DiagMon_Function_QoS-V1_0, URL: http://www.openmobilealliance.org/
[DiagMon_FuncRestart_DDF]	"MO Diagmon Function Restart", Open Mobile Alliance™, OMA-SUP-MO_Diagmon_Function_restart-V1_0, URL: http://www.openmobilealliance.org/
[DiagMon_FuncRFParmsGSM_DDF]	"MO DiagMon Function RF Parms GSM", Open Mobile Alliance™, OMA-SUP-MO_DiagMon_Function_GSM-V1_1, URL: http://www.openmobilealliance.org/
[DiagMon_FuncRFParmsLTE_DDF]	"MO DiagMon Function RF Parms LTE", Open Mobile Alliance™, OMA-SUP-MO_DiagMon_Function_LTE-V1_1, URL: http://www.openmobilealliance.org/
[DiagMon_FuncRFParmsUMTS_DDF]	"MO DiagMon Function RF Parms UMTS", Open Mobile Alliance™, OMA-SUP-MO_DiagMon_Function_UMTS-V1_1, URL: http://www.openmobilealliance.org/
[DiagMon_FuncSensorInfo_DDF]	"MO DiagMon Function Sensor Info", Open Mobile Alliance™, OMA-SUP-MO_DiagMon_Function_SensorInfo-V1_0, URL: http://www.openmobilealliance.org/
[DiagMon_FuncSMSOptions_DDF]	"MO DiagMon Function SMS Options", Open Mobile Alliance™, OMA-SUP-MO_DiagMon_Function_SMSOptions-V1_0, URL: http://www.openmobilealliance.org/
[DiagMon_FuncSMSUsage_DDF]	"MO DiagMon Function SMS Usage", Open Mobile Alliance™, OMA-SUP-MO_DiagMon_Function_SMSUsage-V1_0, URL: http://www.openmobilealliance.org/
[DiagMon_FuncTraceLogs_DDF]	"MO DiagMon Function Trace Logs", Open Mobile Alliance™, OMA-SUP-MO_DiagMon_Function_TraceLogs-V1_0, URL: http://www.openmobilealliance.org/
[DiagMon_FuncTrapEventLog_DDF]	"MO DiagMon Function Trap Event Log", Open Mobile Alliance™, OMA-SUP-MO_DiagMon_Function_TrapEventLog-V1_1, URL: http://www.openmobilealliance.org/
[DiagMon_FuncUESetting_DDF]	"MO DiagMon Function UE Setting", Open Mobile Alliance™, OMA-SUP-MO_DiagMon_Function_UESetting-V1_0, URL: http://www.openmobilealliance.org/
[DiagMon_Functions_TS]	"Diagnostics and Monitoring Functions Specification", Open Mobile Alliance™, OMA-TS-DiagMon_Functions-V1_2, URL: http://www.openmobilealliance.org/
[DiagMon_MOFrame_TS]	"Diagnostics and Monitoring Management Object Framework", Open Mobile Alliance™, OMA-TS-DiagMonMOFrame-V1_2, URL: http://www.openmobilealliance.org/
[DiagMon_MO_DDF]	"Diagnostics and Monitoring Framework Management Object", Open Mobile Alliance™, OMA-SUP-MO_DiagMon-V1_0, URL: http://www.openmobilealliance.org/
[DiagMon_NFC_XSD]	"NFC Function Schema", Open Mobile Alliance™, OMA-SUP-XSD_Diag12_NFC-V1_1, URL: http://www.openmobilealliance.org/
[DiagMon_TrapEventLogging_XSD]	"Trap Event Logging Function Schema", Open Mobile Alliance™, OMA-SUP-XSD_Diag12_TrapEventLogging-V1_0, URL: http://www.openmobilealliance.org/

[DiagMon_TrapEvents_TS]	"Diagnostics and Monitoring Trap Events Specifications", Open Mobile Alliance™, OMA-TS-DiagMonTrapEvents-V1_2, URL: http://www.openmobilealliance.org/
[DiagMon_TrapMOFrame_TS]	"Diagnostics and Monitoring Trap Framework Management Object", Open Mobile Alliance™, OMA-TS-DiagMonTrapMOFrame-V1_2, URL: http://www.openmobilealliance.org/
[DiagMon_TrapMO_DDF]	"Diagnostics and Monitoring Trap Framework Management Object", Open Mobile Alliance™, OMA-SUP-MO_DiagMon_Trap-V1_1, URL: http://www.openmobilealliance.org/
[RFC2119]	"Key words for use in RFCs to Indicate Requirement Levels", S. Bradner, March 1997, URL:http://www.ietf.org/rfc/rfc2119.txt
[SCRRULES]	"SCR Rules and Procedures", Open Mobile Alliance™, OMA-ORG-SCR_Rules_and_Procedures, URL:http://www.openmobilealliance.org/

2.2 Informative References

[OMADICT]	"Dictionary for OMA Specifications", Version 2.9, Open Mobile Alliance™, OMA-ORG-Dictionary-V2_9, URL:http://www.openmobilealliance.org/

3. Terminology and Conventions

3.1 Conventions

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 [RFC2119].

All sections and appendixes, except "Scope", "Release Version Overview" and "Conformance Requirements Notation Details", are normative, unless they are explicitly indicated to be informative.

The formal notation convention used in sections 8 and 9 to formally express the structure and internal dependencies between specifications in the Enabler Release specification baseline is detailed in [SCRRULES].

3.2 Definitions

Kindly consult [OMADICT] for all abbreviations used in this document.

3.3 Abbreviations

Kindly consult [OMADICT] for all abbreviations used in this document.

4. Release Version Overview

The Diagnostics and Monitoring Management Object enables remote diagnostics management within Device. This can be used for example to query device for memory and battery status or to collect radio measures.

4.1 Version 1.0 Functionality

The DiagMon MO V1.0 Enabler [DiagMon-TS] supports the following functionality.

1) **Diagnostics Policies Management:** support for specification and enforcement of policies related to the management of diagnostics features and data.

2) **Fault Reporting: e**nable the device to report faults to the network as the trouble is detected at the device.

3) **Performance Monitoring:** enable the device to measure, collect and report key performance indicators (KPIs) data as seen by the device such as on a periodic basis.

4) **Device Interrogation:** enable the network to query the device for additional diagnostics data in response to a fault

5) **Remote Diagnostics Procedure Invocation:** enable management authorities to invoke specific diagnostics procedures embedded in the device to perform routine maintenance and diagnostics.

6) **Remote Device Repairing:** enable management authorities to invoke specific repairing procedures based on the results of diagnosis procedures.

4.2 Version 1.1 Functionality

OMA DiagMon MO V1.1 introduces this initial set of functions that can be used on top of framework provided by DiagMon MO 1.0:

- Application Monitoring

- Battery Info

- Browsing Usage

- Data Call and Data Session

- Memory

- Trap Event

- Panic Logs

- Restart

- RF Metrics

- SMS Options and Usage

- MMS Usage

- NFC

- User Equipment Setting

- Phone Book

4.2.1 Version 1.2 Functionality

OMA DiagMon MO V1.1 introduced an initial set of functions that can be used to collect application usage metrics, obtain device status and performance statistics, and gather information to diagnose and fix problems with a mobile device. DiagMon MO 1.2 contains enhancements to the existing DiagMon MO 1.1 functions and adds new diagnostic functions for common device capabilities that are not currently covered by DiagMon MO 1.1.

- QoS

- Sensor

- Built-in Device Test

- Device Location

- Web Browsing Monitoring

- Application Execution Information

It also extends the DiagMon Framework adding the Trap Events Framework, and defined the following Trap Events:

- Geographic

- Received Power

- Call Drop

- Log Capacity Full

- Data Speed

- Hard Reboot

- QoS

5. Document Listing for DiagMon MO 1.2

This section is normative.

Doc Ref	Permanent Document Reference	Description
Enabler Release Document		
[DiagMon_ER]	OMA-ER-DiagMon-V1_2-20131008-A	Explains DiagMon 1.2 Requirements and Architecture
Technical Specifications		
[DiagMon_MOFrame_TS]	OMA-TS-DiagMonMOFrame-V1_2-20131008-A	Specification that defines the DiagMon Device Function generic framework and interface to the device functions that perform different DiagMon activities
[DiagMon_Functions_TS]	OMA-TS-DiagMon_Functions-V1_2-20131008-A	Specification that defines a number of standardised instantiations of the DiagMon MO framework for the purposes of obtaining diagnostics and monitoring information in a predictable and industry-wide manner.
[DiagMon_TrapMOFrame_TS]	OMA-TS-DiagMonTrapMOFrame-V1_2-20131008-A	Specification that defines the common structure of the Trap Management Objects on which further definitions for the specific events by vendors and starndard bodies will be based, and the Trap mechanisms for sending and receiving Notifications about the events.
[DiagMon_TrapEvents_TS]	OMA-TS-DiagMonTrapEvents-V1_2-20131008-A	Specification that defines the specific DiagMon Trap Events using the Trap MO framework
Supporting Files		
[DiagMon_MO_DDF]	OMA-SUP-MO_DiagMon-V1_1-20131008-A	DDF Document for DiagMon Framework Management Object Working file in DM_Managed Object directory: file: mo_diagmon-v1_1.ddf path:http://www.openmobilealliance.org/tech/omna/
[DiagMon_FuncBattInf_DDF	OMA-SUP-MO_DiagMon_Function_BatteryInfo-V1_0-20111220-A	DDF Document for DiagMon Function BatteryInfo Working file in DM_Managed Object directory: file: mo_diagmon_function_batteryinfo-v1_0.ddf path:http://www.openmobilealliance.org/tech/omna/
[DiagMon_FuncMemory_DDF]	OMA-SUP-MO_DiagMon_Function_Memory-V1_0-20111220-A	DDF Document for DiagMon Function Memory Working file in DM_Managed Object directory: file: mo_diagmon_function_memory-v1_1.ddf path:http://www.openmobilealliance.org/tech/omna/
[DiagMon_FuncTrapEventLog_DDF]	OMA-SUP-MO_DiagMon_Function_TrapEventLog-V1_1-20131008-A	DDF Document for DiagMon Function TrapEventLog Working file in DM_Managed Object directory: file: mo_diagmon_function_trapeventlog-v1_1.ddf path:http://www.openmobilealliance.org/tech/omna/
[DiagMon_FuncBuiltInTest_DDF]	OMA-SUP-MO_DiagMon_Function_BuiltInTest-V1_0-20131008-A	DDF Document for DiagMon Function Built In Device Test Working file in DM_Managed Object directory: file: mo_diagmon_function_builtintest-v1_0.ddf path:http://www.openmobilealliance.org/tech/omna/
[DiagMon_FuncTraceLogs_DDF]	OMA-SUP-MO_DiagMon_Function_TraceLogs-V1_0-20131008-A	DDF Document for DiagMon Function Trace Logs Working file in DM_Managed Object directory: file: mo_diagmon_function_tracelogs-v1_0.ddf path:http://www.openmobilealliance.org/tech/omna/
[DiagMon_FuncPanic	OMA-SUP-MO_DiagMon_Function_PanicLog	DDF Document for DiagMon Function Paniclog

log_DDF]	-V1_1-20131008-A	Working file in DM_Managed Object directory:
		file: mo_diagmon_function_paniclog-v1_1.ddf
		path:http://www.openmobilealliance.org/tech/omna/
[DiagMon_FuncNFC_DDF]	OMA-SUP-MO_DiagMon_Function_NFC-V1_1-20131008-A	DDF Document for DiagMon Function_NFC
		Working file in DM_Managed Object directory:
		file: mo_diagmon_function_nfc-v1_1.ddf
		path:http://www.openmobilealliance.org/tech/omna/
[DiagMon_FuncRestart_DDF]	OMA-SUP-MO_Diagmon_Function_Restart-V1_0- 20111220-A	DDF Document for DiagMon Function_restart
		Working file in DM_Managed Object directory:
		file: mo_diagmon_function_restart-v1_0.ddf
		path:http://www.openmobilealliance.org/tech/omna/
[DiagMon_FuncRFParms_GSM_DDF]	OMA-SUP-MO_DiagMon_Function_GSM-V1_1-20131008-A	DDF Document for DiagMon Function GSM
		Working file in DM_Managed Object directory:
		file: mo_diagmon_function_gsm-v1_1.ddf
		path:http://www.openmobilealliance.org/tech/omna/
[DiagMon_FuncRFParms_UMTS_DDF]	OMA-SUP-MO_DiagMon_Function_UMTS-V1_1-20131008-A	DDF Document for DiagMon Function UMTS
		Working file in DM_Managed Object directory:
		file: mo_diagmon_function_umts-v1_1.ddf
		path:http://www.openmobilealliance.org/tech/omna/
[DiagMon_FuncRFParms_LTE_DDF]	OMA-SUP-MO_DiagMon_Function_LTE-V1_1-20131008-A	DDF Document for DiagMon Function LTE
		Working file in DM_Managed Object directory:
		file: mo_diagmon_function_lte-v1_1.ddf
		path:http://www.openmobilealliance.org/tech/omna/
[DiagMon_FuncManagementMobilityRejection_DDF]	OMA-SUP-MO_DiagMon_Function_MMR-V1_0-20111220-A	DDF Document for DiagMon Function MMR
		Working file in DM_Managed Object directory:
		file: mo_diagmon_function_mmr-v1_0.ddf
		path:http://www.openmobilealliance.org/tech/omna/
[DiagMon_FuncDataCallDataSession_DDF]	OMA-SUP-MO_DiagMon_Function_DataCallDataSession-V1_1-20131008-A	DDF Document for DiagMon Function DataCallDataSession
		Working file in DM_Managed Object directory:
		file: mo_diagmon_function_datacalldatasession-v1_1.ddf
		path:http://www.openmobilealliance.org/tech/omna/
[DiagMon_FuncSMSOptions_DDF]	OMA-SUP-MO_DiagMon_Function_SMSOptions-V1_0-20111220-A	DDF Document for DiagMon Function SMSOptions
		Working file in DM_Managed Object directory:
		file: mo_diagmon_function_smsoptions-v1_0.ddf
		path:http://www.openmobilealliance.org/tech/omna/
[DiagMon_FuncSMSUsage_DDF]	OMA-SUP-MO_DiagMon_Function_SMSUsage-V1_0-20111220-A	DDF Document for DiagMon Function SMSUsage
		Working file in DM_Managed Object directory:
		file: mo_diagmon_function_smsusage-v1_0.ddf
		path:http://www.openmobilealliance.org/tech/omna/
[DiagMon_FuncMMSUsage_DDF]	OMA-SUP-MO_DiagMon_Function_MMSUsage-V1_0-20111220-A	DDF Document for DiagMon Function MMSUsage
		Working file in DM_Managed Object directory:
		file: mo_diagmon_function_TrapEventLog-v1_0.ddf
		path:http://www.openmobilealliance.org/tech/omna/

[DiagMon_FuncApp Mon_DDF]	OMA-SUP-MO_DiagMon_Function_AppMon-V1_0-20111220-A	DDF Document for DiagMon Function AppMon Working file in DM_Managed Object directory: file: mo_diagmon_function_appmon-v1_0.ddf path:http://www.openmobilealliance.org/tech/omna/
[DiagMon_FuncApp Usage_DDF]	OMA-SUP-MO_DiagMon_Function_AppData Usage-V1_0-20131008-A	DDF Document for DiagMon Function AppDataUsage Working file in DM_Managed Object directory: file: mo_diagmon_function_appdatausage-v1_0.ddf path:http://www.openmobilealliance.org/tech/omna/
[DiagMon_FuncAppE xeInfo_DDF]	OMA-SUP-MO_DiagMon_Function_AppExeI nfo-V1_0-20131008-A	DDF Document for DiagMon Function AppExeInfo Working file in DM_Managed Object directory: file: mo_diagmon_function_appexeinfo-v1_0.ddf path:http://www.openmobilealliance.org/tech/omna/
[DiagMon_FuncUESe tting_DDF]	OMA-SUP-MO_DiagMon_Function_UESettin g-V1_0-20111220-A	DDF Document for DiagMon Function UESetting Working file in DM_Managed Object directory: file: DiagMon_UESetting_Function-v1.1.ddf path:http://www.openmobilealliance.org/tech/omna/
[DiagMon_FuncPhon ebook_DDF]	OMA-SUP-MO_DiagMon_Function_Phreboo k-V1_0-20111220-A	DDF Document for DiagMon Function Phonebook Working file in DM_Managed Object directory: file: mo_diagmon_function_phonebook_v1_0.ddf path:http://www.openmobilealliance.org/tech/omna/
[DiagMon_FuncDevi ceLoc_DDF]	OMA-SUP-MO_DiagMon_Function_DeviceLo c-V1_0-20131008-A	DDF Document for DiagMon Function Device Location Working file in DM_Managed Object directory: file: mo_diagmon_function_deviceloc-v1_0.ddf path:http://www.openmobilealliance.org/tech/omna/
[DiagMon_FuncSens orInfo_DDF]	OMA-SUP-MO_DiagMon_Function_SensorInf o-V1_0-20131008-A	DDF Document for DiagMon Function Sensor Info Working file in DM_Managed Object directory: file: mo_diagmon_function_sensorinfo-v1_0.ddf path:http://www.openmobilealliance.org/tech/omna/
[DiagMon_FuncQoS_ DDF]	OMA-SUP-MO_DiagMon_Function_QoS-V1_0-20131008-A	DDF Document for DiagMon Function Sensor QoS Working file in DM_Managed Object directory: file: mo_diagmon_function_qos-v1_0.ddf path:http://www.openmobilealliance.org/tech/omna/
[DiagMon_FuncBrow serMon_DDF]	OMA-SUP-MO_DiagMon_Function_Browser Mon-V1_0-20131008-A	DDF Document for DiagMon Function Browsing Monitoring Working file in DM_Managed Object directory: file: mo_diagmon_function_browsermon-v1_0.ddf path:http://www.openmobilealliance.org/tech/omna/
[DiagMon_TrapMO_ DDF]	OMA-SUP-MO_DiagMon_Trap-V1_1-20131008-A	DDF Document for DiagMon Trap Framework Management Object Working file in DM_Managed Object directory: file: mo_diagmontrapmo-v1_1.ddf path:http://www.openmobilealliance.org/tech/omna/
[DiagMon_EventGeo graphic_DDF]	OMA-SUP-MO_DiagMon_Event_Geographic-V1_0-20131008-A	DDF Document for DiagMon Trap Geographic Event Working file in DM_Managed Object directory:

		file: mo_diagmon_event_geographic-v1_0.ddf
		path:http://www.openmobilealliance.org/tech/omna/
[DiagMon_EventCall Drop_DDF]	OMA-SUP-MO_DiagMon_Event_CallDrop-V1_0-20131008-A	DDF Document for DiagMon Trap Call Drop Event
		Working file in DM_Managed Object directory:
		file: mo_diagmon_event_calldrop-v1_0.ddf
		path:http://www.openmobilealliance.org/tech/omna/
[DiagMon_EventRece ivedPower_DDF]	OMA-SUP-MO_DiagMon_Event_ReceivedPower-V1_0-20131008-A	DDF Document for DiagMon Trap Received Powert Event
		Working file in DM_Managed Object directory:
		file: mo_diagmon_event_receivedpower-v1_0.ddf
		path:http://www.openmobilealliance.org/tech/omna/
[DiagMon_EventLog Full_DDF]	OMA-SUP-MO_DiagMon_Event_LogFull-V1_0-20131008-A	DDF Document for DiagMon Trap Log Full Event
		Working file in DM_Managed Object directory:
		file: mo_diagmon_event_logfull-v1_0.ddf
		path:http://www.openmobilealliance.org/tech/omna/
[DiagMon_EventData Speed_DDF]	OMA-SUP-MO_DiagMon_Event_DataSpeed-V1_0-20131008-A	DDF Document for DiagMon Trap Data Speed Event
		Working file in DM_Managed Object directory:
		file: mo_diagmon_event_dataspeed-v1_0.ddf
		path:http://www.openmobilealliance.org/tech/omna/
[DiagMon_EventHard Reboot_DDF]	OMA-SUP-MO_DiagMon_Event_HardReboot-V1_0-20131008-A	DDF Document for DiagMon Trap Hard Reboot Event
		Working file in DM_Managed Object directory:
		file: mo_diagmon_event_hardreboot-v1_0.ddf
		path:http://www.openmobilealliance.org/tech/omna/
[DiagMon_EventQoS _DDF]	OMA-SUP-MO_DiagMon_Event_QoS-V1_0-20131008-A	DDF Document for DiagMon Trap QoS Event
		Working file in DM_Managed Object directory:
		file: mo_diagmon_event_qos-v1_0.ddf
		path:http://www.openmobilealliance.org/tech/omna/
[DiagMon_NFC_XS D]	OMA-SUP-XSD_Diag12_NFC-V1_1-20131008-A	XSD Schema Document for DiagMon Function NFC
		Working file in AC directory:
		file: dm_diag12_nfc-v1_1.xsd
		path:http://www.openmobilealliance.org/tech/omna/
[DiagMon_TrapEvent Logging_XSD]	OMA-SUP-XSD_Diag12_TrapEventLogging-V1_0-20131008-A	XSD Schema Document for DiagMon Function Trap Event Logging
		Working file in AC directory:
		file: dm_diag12_trapeventlogging-v1_0.xsd
		path:http://www.openmobilealliance.org/tech/omna/

Table 1: Listing of Documents in DiagMon MO Enabler

6. OMNA Considerations

The OMNA portal needs to add and maintain the following MO into its registry:

MO Identifier	Description	Owner	Version	MO DDF	MO Spec
urn:oma:mo:oma-diagmon:1.1	DDF Document for DiagMon Framework Management Object	OMA	V1.1	mo_diagmon-v1_1.ddf	OMA-TS-DiagMonMOFrame-V1_2
urn:oma:mo:oma-diag:batteryinfo:1.0	DDF Document for DiagMon Function BatteryInfo	OMA	V1.0	mo_diagmon_function_batteryinfo-v1_0.ddf	OMA-TS-DiagMon_Functions-1_2
urn:oma:mo:oma-diag:memory:1.1	DDF Document for DiagMon Function Memory	OMA	V1.1	mo_diagmon_function_memory-v1_1.ddf	OMA-TS-DiagMon_Functions-1_2
urn:oma:mo:oma-diag:trapeventlogging:1.1	DDF Document for DiagMon Function TrapEventLog	OMA	V1.1	mo_diagmon_function_trapeventlog-v1_1.ddf	OMA-TS-DiagMon_Functions-1_2
urn:oma:mo:oma-diag:builtintest:1.0	DDF Document for DiagMon Function Built In Test Device	OMA	V1.0	mo_diagmon_function_builtintest-v1_0.ddf	OMA-TS-DiagMon_Functions-1_2
urn:oma:mo:oma-diag:tracelog:1.0	DDF Document for DiagMon Function Trace Logs	OMA	V1.0	mo_diagmon_function_tracelogs-v1_0.ddf	OMA-TS-DiagMon_Functions-1_2
urn:oma:mo:oma-diag:paniclog:1.1	DDF Document for DiagMon Function Paniclog	OMA	V1.1	mo_diagmon_function_paniclog-v1_1.ddf	OMA-TS-DiagMon_Functions-1_2
urn:oma:mo:oma-diag:NFC:1.1	DDF Document for DiagMon Function NFC	OMA	V1.1	mo_diagmon_function_nfc-v1_1.ddf	OMA-TS-DiagMon_Functions-1_2
urn:oma:mo:oma-diag:restart:1.0	DDF Document for DiagMon Function Restart	OMA	V1.0	mo_diagmon_function_restart-v1_0.ddf	OMA-TS-DiagMon_Functions-1_2
urn:oma:mo:oma-diag:RFParms_3GPP_GSM:1.1	DDF Document for DiagMon Function RF Parameters 3GPP	OMA	V1.1	mo_diagmon_function_3GPP_GSM-v1_1.ddf	OMA-TS-DiagMon_Functions-1_2
urn:oma:mo:oma-diag:RFParms_3GPP_LTE:1.1	DDF Document for DiagMon Function RF Parameters LTE	OMA	V1.1	mo_diagmon_function_RFParms_3GPP_LTE-v1_1.ddf	OMA-TS-DiagMon_Functions-1_2
urn:oma:mo:oma-diag:RFParms_3GPP_UMTS:1.1	DDF Document for DiagMon Function RF Parameters UMTS	OMA	V1.1	mo_diagmon_function_UMTS-v1_1.ddf	OMA-TS-DiagMon_Functions-1_2
urn:oma:mo:oma-diag:mobility_management_rejection:1.0	DDF Document for DiagMon Function Mobility Management Rejection	OMA	V1.0	mo_diagmon_function_RFParms_MMR-v1_0.ddf	OMA-TS-DiagMon_Functions-1_2

urn:oma:mo:oma-diag:DataCallAndDataSession:1.1	DDF Document for DiagMon Function DataCallDataSession	OMA	V1.1	mo_diagmon_function_DataCall DataSession-v1_1.ddf	OMA-TS-DiagMon_Functions-1_2
urn:oma:mo:oma-diag:SMSOptions:1.0	DDF Document for DiagMon Function SMSOptions	OMA	V1.0	mo_diagmon_function_smsopti ons-v1_0.ddf	OMA-TS-DiagMon_Functions-1_2
urn:oma:mo:oma-diag:SMSUsage:1.0	DDF Document for DiagMon Function SMSUsage	OMA	V1.0	mo_diagmon_function_smsusag e-v1_0.ddf	OMA-TS-DiagMon_Functions-1_2
urn:oma:mo:oma-diag:MMSUsage:1.0	DDF Document for DiagMon Function MMSUsage	OMA	V1.0	mo_diagmon_function_TrapEve ntLog-v1_0.ddf	OMA-TS-DiagMon_Functions-1_2
urn:oma:mo:oma-diag:appmonlog:1.0	DDF Document for DiagMon Function AppMon	OMA	V1.0	mo_diagmon_function_appmon-v1_0.ddf	OMA-TS-DiagMon_Functions-1_2
urn:oma:mo:oma-diag:appdatausage:1.0	DDF Document for DiagMon Function AppDataUsage	OMA	V1.0	mo_diagmon_function_appdata usage-v1_0.ddf	OMA-TS-DiagMon_Functions-1_2
urn:oma:mo:oma-diag:appexeinfo:1.0	DDF Document for DiagMon Function AppExeInfo	OMA	V1.0	mo_diagmon_function_appexei nfo-v1_0.ddf	OMA-TS-DiagMon_Functions-1_2
urn:oma:mo:oma-diag:UESetting:1.0	DDF Document for DiagMon Function UESetting	OMA	V1.0	DiagMon_UESetting_Function-v1.0.ddf	OMA-TS-DiagMon_Functions-1_2
urn:oma:mo:oma-diag:phonebook:1.0	DDF Document for DiagMon Function Phonebook	OMA	V1.0	mo_diagmon_function_phonebo ok_v1_0.ddf	OMA-TS-DiagMon_Functions-1_2
urn:oma:mo:oma-diag:devicelocation:1.0	DDF Document for DiagMon Function Device Location	OMA	V1.0	mo_diagmon_function_devicelo c-v1_0.ddf	OMA-TS-DiagMon_Functions-1_2
urn:oma:mo:oma-diag:sensorinfo:1.0	DDF Document for DiagMon Function Sensor Info	OMA	V1.0	mo_diagmon_function_sensorin fo-v1_0.ddf	OMA-TS-DiagMon_Functions-1_2
urn:oma:mo:oma-diag:qos:1.0	DDF Document for DiagMon Function QoS	OMA	V1.0	mo_diagmon_function_qos-v1_0.ddf	OMA-TS-DiagMon_Functions-1_2
urn:oma:mo:oma-diag:webbrowmon:1.0	DDF Document for DiagMon Function Web Browsing Monitoring	OMA	V1.0	mo_diagmon_function_browser mon-v1_0.ddf	OMA-TS-DiagMon_Functions-1_2
urn:oma:mo:oma-diag:trap-geo:1.0	DDF Document for DiagMon Event Trap Geographic	OMA	V1.0	mo_diagmon_event_geographic -v1_0.ddf	OMA-TS-DiagMonTrapEvents -1_2

urn:oma:mo:oma-diag:trap-rxpwr:1.0	DDF Document for DiagMon Event Trap Received Power	OMA	V1.0	mo_diagmon_event_receivedpower-v1_0.ddf	OMA-TS-DiagMonTrapEvents -1_2
urn:oma:mo:oma-diag:trap-calldrop:1.0	DDF Document for DiagMon Event Trap Call Drop	OMA	V1.0	mo_diagmon_event_calldrop-v1_0.ddf	OMA-TS-DiagMonTrapEvents -1_2
urn:oma:mo:oma-diag:trap-logcapacityfull:1.0	DDF Document for DiagMon Event Trap Log Full	OMA	V1.0	mo_diagmon_event_logfull-v1_0.ddf	OMA-TS-DiagMonTrapEvents -1_2
urn:oma:mo:oma-diagmontrap:dataspeed:1.0	DDF Document for DiagMon Event Trap Data Speed	OMA	V1.0	mo_diagmon_event_dataspeed-v1_0.ddf	OMA-TS-DiagMonTrapEvents -1_2
urn:oma:mo:oma-diagmontrap:hard-reboot:1.0	DDF Document for DiagMon Event Trap Hard Reboot	OMA	V1.0	mo_diagmon_event_hardreboot-v1_0.ddf	OMA-TS-DiagMonTrapEvents -1_2
urn:oma:mo:oma-diagmontrap:qos:1.0	DDF Document for DiagMon Event Trap QoS	OMA	V1.0	mo_diagmon_event_qos-v1_0.ddf	OMA-TS-DiagMonTrapEvents -1_2

The OMNA portal needs to add and maintain the following alert type into Alert Type registry:

Alert Root	Alert Code	Alert Type Description	Owner	Version	Spec	MO Identifier (Optional)
urn:oma:at:diagmon:1.0	OperationComplete	Used to claim that the alert message conveys the result of DiagMon functions operation	DM WG	1.0	OMA-TS-DiagMonMOFrame-V1_2-20120305-D	urn:oma:mo:oma-diagmon:1.1
urn:oma:at:diagmon:1.0	CollectedSimpleDataReport	Used to claim that the data conveyed are in node value format	DM WG	1.0	OMA-TS-DiagMonMOFrame-V1_2-20120305-D	urn:oma:mo:oma-diagmon:1.1
urn:oma:at:diagmon:1.0	TrapNotification	Used to claim that the DiagMon Trap transitions to Active state	DM WG	1.0	OMA-TS-DiagMonTrapMOFrame-V1_2-20120322-D	urn:oma:mo:oma-diagmontrap:1.1
urn:oma:at:diagmon:1.0	TrapInactiveNotification	Used to claim that the DiagMon Trap transitions to Inactive state	DM WG	1.0	OMA-TS-DiagMonTrapMOFrame-V1_2-20120322-D	urn:oma:mo:oma-diagmontrap:1.1
urn:oma:at:diagmon:1.0	TrapDeregistered	Used to notify the deregistration of an inward trap	DM WG	1.0	OMA-TS-DiagMonTrapMOFrame-V1_2-20120322-D	urn:oma:mo:oma-diagmontrap:1.1

The OMNA portal needs to maintain the following schema namespace into Schema Namespace Registry

Registered URN	Description	File
urn:oma:xml:dm-diag12:NFC:1.1	XSD Schema for NFC Function	dm_diag12_nfc-v1_1.xsd
urn:oma:xml:dm-diag12:trapeventlogging:1.0	XSD Schema for Trap Event Logging Function	dm_diag12_trapeventlogging-v1_0.xsd

7. Conformance Requirements Notation Details

This section is informative

The tables in following chapters use the following notation:

Item: Entry in this column MUST be a valid ScrItem according to [SCRRULES].

Feature/Application: Entry in this column SHOULD be a short descriptive label to the **Item** in question.

Requirement: Expression in the column MUST be a valid TerminalExpression according to [SCRRULES] and it
                                   MUST accurately reflect the architectural requirement of the **Item** in question.

8. ERDEF for DiagMon – Client Requirements

This section is normative.

Item	Feature / Application	Requirement
OMA-ERDEF-DiagMon-C-001-M	DiagMon MO Framework	[DiagMon_MOFrame_TS]
OMA-ERDEF-DiagMon-C-002-M	DiagMon Trap MO Framework	[DiagMon_TrapMOFrame_TS]
OMA-ERDEF-DiagMon-C-003-M	DiagMon Functions	[DiagMon_Functions_TS]
OMA-ERDEF-DiagMon-C-004-M	DiagMon Trap Events	[DiagMon_TrapEvents_TS]

Table 2: ERDEF for DiagMon Client-side Requirements

9. ERDEF for DiagMon – Server Requirements

This section is normative.

Item	Feature / Application	Requirement
OMA-ERDEF-DiagMon-S-001-M	DiagMon MO Framework	[DiagMon_MOFrame_TS]
OMA-ERDEF-DiagMon-S-002-M	DiagMon Trap MO Framework	[DiagMon_TrapMOFrame_TS]
OMA-ERDEF-DiagMon-S-003-M	DiagMon Functions	[DiagMon_Functions_TS]
OMA-ERDEF-DiagMon-S-004-M	DiagMon Trap Events	[DiagMon_TrapEvents_TS]

Table 3: ERDEF for DiagMon Server-side Requirements

Appendix A.   Change History   (Informative)

A.1   Approved Version History

Reference	Date	Description
OMA-ERELD-DiagMon-V1_2-20131008-A	08 Oct 2013	Status changed to Approved by TP TP Ref # OMA-TP-2013-0311-INP_DiagMon_V1_2_ERP_for_Final_Approval