



# **Enabler Release Definition for DiagMon Management Object**

Approved Version 1.1 – 20 Dec 2011

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**Open Mobile Alliance**  
OMA-ERELD-DiagMon-V1\_1-20111220-A

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# 1. Scope

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

## 2. References

### 2.1 Normative References

<b>[DiagMon-AD]</b>	“DiagMon Architecture”, Open Mobile Alliance™, OMA-AD-DiagMon-V1_0, URL: <a href="http://www.openmobilealliance.org/">http://www.openmobilealliance.org/</a>
<b>[DiagMonFuncMMSUsage DDF]</b>	“MO DiagMonFunctionMMSUsage”, Open Mobile Alliance™, OMA-SUP-MO_DiagMon_Function_MMSUsage-V1_0, URL: <a href="http://www.openmobilealliance.org/">http://www.openmobilealliance.org/</a>
<b>[DiagMonFuncAppMon DDF]</b>	“MO DiagMonFunctionAppMon”, Open Mobile Alliance™, OMA-SUP-MO_DiagMon_Function_AppMon-V1_0, URL: <a href="http://www.openmobilealliance.org/">http://www.openmobilealliance.org/</a>
<b>[DiagMonFuncBattInf_ DDF]</b>	“MO DiagMonFunctionBatteryInfo”, Open Mobile Alliance™, OMA-SUP-MO_DiagMon_Function_BatteryInfo-V1_0, URL: <a href="http://www.openmobilealliance.org/">http://www.openmobilealliance.org/</a>
<b>[DiagMonFuncBrowsing Usage DDF]</b>	“MO DiagMonFunctionBrowsingUsage”, Open Mobile Alliance™, OMA-SUP-MO_DiagMon_Function_BrowsingUsage-V1_0, URL: <a href="http://www.openmobilealliance.org/">http://www.openmobilealliance.org/</a>
<b>[DiagMonFuncDataCall DataSession DDF]</b>	“MO DiagMonFunctionDataCallDataSession”, Open Mobile Alliance™, OMA-SUP-MO_DiagMon_Function_DataCallDataSession-V1_0, URL: <a href="http://www.openmobilealliance.org/">http://www.openmobilealliance.org/</a>
<b>[DiagMonFuncMemory DDF]</b>	“MO DiagMonFunctionMemory”, Open Mobile Alliance™, OMA-SUP-MO_DiagMon_Function_Memory-V1_0, URL: <a href="http://www.openmobilealliance.org/">http://www.openmobilealliance.org/</a>
<b>[DiagMonFuncMMRDD F]</b>	“MO DiagMon FunctionMobilityManagementRejection”, Open Mobile Alliance™, OMA-SUP-MO_DiagMon_Function_MMR-V1_0, URL: <a href="http://www.openmobilealliance.org/">http://www.openmobilealliance.org/</a>
<b>[DiagMonFuncNFC DDF]</b>	“MO DiagMon Function NFC”, Open Mobile Alliance™, OMA-SUP-MO_DiagMon_Function_NFC-V1_0, URL: <a href="http://www.openmobilealliance.org/">http://www.openmobilealliance.org/</a>
<b>[DiagMonFuncPaniclog DDF]</b>	“MO DiagMonFunctionpaniclog”, Open Mobile Alliance™, OMA-SUP-MO_DiagMon_Function_BatteryInfo-V1_0, URL: <a href="http://www.openmobilealliance.org/">http://www.openmobilealliance.org/</a>
<b>[DiagMonFuncPhonebook DDF]</b>	“MO DiagMonFunctionPhonebook”, Open Mobile Alliance™, OMA-SUP-MO_DiagMon_Function_Phonebook-V1_0, URL: <a href="http://www.openmobilealliance.org/">http://www.openmobilealliance.org/</a>
<b>[DiagMonFuncRestart DDF]</b>	“MO DiagmonFunctionRestart”, Open Mobile Alliance™, OMA-SUP-MO_Diagmon_Function_restart-V1_0, URL: <a href="http://www.openmobilealliance.org/">http://www.openmobilealliance.org/</a>
<b>[DiagMonFuncRFParms GSMDDF]</b>	“MO DiagMonFunctionRFParmsGSM”, Open Mobile Alliance™, OMA-SUP-MO_DiagMon_Function_GSM-V1_0, URL: <a href="http://www.openmobilealliance.org/">http://www.openmobilealliance.org/</a>
<b>[DiagMonFuncRFParms LTEDDF]</b>	“MO DiagMonFunctionRFParmsLTE”, Open Mobile Alliance™, OMA-SUP-MO_DiagMon_Function_LTE-V1_0, URL: <a href="http://www.openmobilealliance.org/">http://www.openmobilealliance.org/</a>
<b>[DiagMonFuncRFParms UMTSDDF]</b>	“MO DiagMonFunctionRFParmsUMTS”, Open Mobile Alliance™, OMA-SUP-MO_DiagMon_Function_UMTS-V1_0, URL: <a href="http://www.openmobilealliance.org/">http://www.openmobilealliance.org/</a>
<b>[DiagMonFuncSMSOptions DDF]</b>	“MO DiagMonFunctionSMSOptions”, Open Mobile Alliance™, OMA-SUP-MO_DiagMon_Function_SMSOptions-V1_0, URL: <a href="http://www.openmobilealliance.org/">http://www.openmobilealliance.org/</a>
<b>[DiagMonFuncSMSUsag</b>	“MO DiagMon FunctionSMSUsage”, Open Mobile Alliance™, OMA-SUP-

e DDF]	MO_DiagMon_Function_SMSUsage-V1_0, URL: <a href="http://www.openmobilealliance.org/">http://www.openmobilealliance.org/</a>
[DiagMonFunctions-TS]	“DiagMon Functions Supplemental Specification”, Open Mobile Alliance™, OMA-TS-DiagMon-V1_0, URL: <a href="http://www.openmobilealliance.org/">http://www.openmobilealliance.org/</a>
[DiagMonFuncTrapEventLog DDF]	“MO DiagMonFunctionTrapEventLog”, Open Mobile Alliance™, OMA-SUP-MO_DiagMon_Function_TrapEventLog-V1_0, URL: <a href="http://www.openmobilealliance.org/">http://www.openmobilealliance.org/</a>
[DiagMonFuncUESetting DDF]	“MO DiagMonFuncUESetting”, Open Mobile Alliance™, OMA-SUP-MO_DiagMon_Function_UESetting-V1_0, URL: <a href="http://www.openmobilealliance.org/">http://www.openmobilealliance.org/</a>
[DiagMon-RD]	“DiagMon Requirements”, Open Mobile Alliance™, OMA-RD-DiagMon-V1_0, URL: <a href="http://www.openmobilealliance.org/">http://www.openmobilealliance.org/</a>
[RFC2119]	“Key words for use in RFCs to Indicate Requirement Levels”, S. Bradner, March 1997, URL: <a href="http://www.ietf.org/rfc/rfc2119.txt">http://www.ietf.org/rfc/rfc2119.txt</a>
[SCRRULES]	“SCR Rules and Procedures”, Open Mobile Alliance™, OMA-ORG-SCR_Rules_and_Procedures, URL: <a href="http://www.openmobilealliance.org/">http://www.openmobilealliance.org/</a>

## 2.2 Informative References

[OMADICT]	“Dictionary for OMA Specifications”, Version 2.7, Open Mobile Alliance™, OMA-ORG-Dictionary-V2_7, URL: <a href="http://www.openmobilealliance.org/">http://www.openmobilealliance.org/</a>
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## 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

<b>Enabler Release</b>	Collection of specifications that combined together form an enabler for a service area, e.g. a download enabler, a browsing enabler, a messaging enabler, a location enabler, etc. The specifications that are forming an enabler should combined fulfill a number of related market requirements.
<b>Minimum Functionality Description</b>	Description of the guaranteed features and functionality that will be enabled by implementing the minimum mandatory part of the Enabler Release.
<b>Software Component</b>	A Diagnostics resource utilized by the mobile Device software platform

### 3.3 Abbreviations

<b>DiagMon</b>	Diagnostics Management Object
<b>ERDEF</b>	Enabler Requirement Definition
<b>ERELD</b>	Enabler Release Definition
<b>OMA</b>	Open Mobile Alliance

## 4. Release Version Overview

The Diagnostics Management Object enables remote Diagnostics management within Device. This can be used for example to update antivirus software or browser plug-in etc.

Management operations defined for the purpose of Software Component management on the Device support delivery, download, installation, update, removal, activation & de-activation. In addition, retrieval of inventory of Software Components on the Device is also supported.

### 4.1 Version 1.0 Functionality

The Diagnostics Management Object (DiagMon) 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:** Enable 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



## 5. Document Listing for DiagMon

This section is normative.

Doc Ref	Permanent Document Reference	Description
<b>Requirement Document</b>		
[DiagMon_RD]	OMA-RD-DiagMon-V1_0-20111220-A	Requirement Document for DiagMon Enabler
<b>Architecture Document</b>		
[DiagMon_AD]	OMA-AD-DiagMon-V1_0-20111220-A	Architecture Document for DiagMon Enabler
<b>Technical Specifications</b>		
[DiagMonFunctions_TS]	OMA-TS-DiagMon_Functions-V1_0-20111220-A	Technical Specification for DiagMon Enabler
<b>Supporting Files</b>		
[DiagMonFuncBattInf_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.ddf path: <a href="http://www.openmobilealliance.org/tech/omna/">http://www.openmobilealliance.org/tech/omna/</a>
[DiagMonFuncSMSUsage 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: <a href="http://www.openmobilealliance.org/tech/omna/">http://www.openmobilealliance.org/tech/omna/</a>
[DiagMonFuncAppMon 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: <a href="http://www.openmobilealliance.org/tech/omna/">http://www.openmobilealliance.org/tech/omna/</a>
[DiagMonFuncSMSOptions 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: <a href="http://www.openmobilealliance.org/tech/omna/">http://www.openmobilealliance.org/tech/omna/</a>
[DiagMonFuncUESetting DDF]	OMA-SUP-MO_DiagMon_Function_UESetting-V1_0-20111220-A	DDF Document for DiagMon Function_UESetting Working file in DM_Managed Object directory: file: DiagMon_UESetting_Function-v1.0.ddf path: <a href="http://www.openmobilealliance.org/tech/omna/">http://www.openmobilealliance.org/tech/omna/</a>
[DiagMonFuncRestart 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: <a href="http://www.openmobilealliance.org/tech/omna/">http://www.openmobilealliance.org/tech/omna/</a>
[DiagMonFuncNFC DDF]	OMA-SUP-MO_DiagMon_Function_NFC-V1_0-20111220-A	DDF Document for DiagMon Function_NFC Working file in DM_Managed Object directory: file: mo_diagmon_function_nfc-v1_0.ddf

		path: <a href="http://www.openmobilealliance.org/tech/omna/">http://www.openmobilealliance.org/tech/omna/</a>
[DiagMonFuncPaniclog DDF]	OMA-SUP-MO_DiagMon_Function_paniclog-V1_0-20111220-A	DDF Document for DiagMon Function_paniclog Working file in DM_Managed Object directory: file: mo_diagmon_function_paniclog-v1_0.ddf path: <a href="http://www.openmobilealliance.org/tech/omna/">http://www.openmobilealliance.org/tech/omna/</a>
[DiagMonFuncTrapEventLog DDF]	OMA-SUP-MO_DiagMon_Function_TrapEventLog-V1_0-20111220-A	DDF Document for DiagMon Function_TrapEventLog Working file in DM_Managed Object directory: file: mo_diagmon_function_TrapEventLog-v1_0.ddf path: <a href="http://www.openmobilealliance.org/tech/omna/">http://www.openmobilealliance.org/tech/omna/</a>
[DiagMonFunc MMSUsage 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: <a href="http://www.openmobilealliance.org/tech/omna/">http://www.openmobilealliance.org/tech/omna/</a>
[DiagMonFuncBrowsingUsage DDF]	OMA-SUP-MO_DiagMon_Function_BrowsingUsage-V1_0-20111220-A	DDF Document for DiagMon Function_BrowsingUsage Working file in DM_Managed Object directory: file: mo_diagmon_function_BrowsingUsage-v1_0.ddf path: <a href="http://www.openmobilealliance.org/tech/omna/">http://www.openmobilealliance.org/tech/omna/</a>
[DiagMonFuncDataCallDataSession DDF]	OMA-SUP-MO_DiagMon_Function_DataCallDataSession-V1_0-20111220-A	DDF Document for DiagMon Function_DataCallDataSession Working file in DM_Managed Object directory: file: mo_diagmon_function_DataCallDataSession-v1_0.ddf path: <a href="http://www.openmobilealliance.org/tech/omna/">http://www.openmobilealliance.org/tech/omna/</a>
[DiagMonFuncPhonebook DDF]	OMA-SUP-MO_DiagMon_Function_Phonebook-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: <a href="http://www.openmobilealliance.org/tech/omna/">http://www.openmobilealliance.org/tech/omna/</a>
[DiagMonFuncMemory 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_0.ddf path: <a href="http://www.openmobilealliance.org/tech/omna/">http://www.openmobilealliance.org/tech/omna/</a>
[DiagMonFuncRFPParams_GSM_DDF]	OMA-SUP-MO_DiagMon_Function_GSM-V1_0-20111220-A	DDF Document for DiagMon Function_GSM Working file in DM_Managed Object directory: file: mo_diagmon_function_gsm-v1_0.ddf path: <a href="http://www.openmobilealliance.org/tech/omna/">http://www.openmobilealliance.org/tech/omna/</a>

[DiagMonFuncRFParms_UMTS_DDF]	OMA-SUP-MO_DiagMon_Function_UMTS-V1_0-20111220-A	DDF Document for DiagMon Function_UMTS Working file in DM_Managed Object directory: file: mo_diagmon_function_ums-v1_0.ddf path: <a href="http://www.openmobilealliance.org/tech/omna/">http://www.openmobilealliance.org/tech/omna/</a>
[DiagMonFuncRFParms_LTE_DDF]	OMA-SUP-MO_DiagMon_Function_LTE-V1_0-20111220-A	DDF Document for DiagMon Function_LTE Working file in DM_Managed Object directory: file: mo_diagmon_function_lte-v1_0.ddf path: <a href="http://www.openmobilealliance.org/tech/omna/">http://www.openmobilealliance.org/tech/omna/</a>
[DiagMonFuncManagementMobilityRejection_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: <a href="http://www.openmobilealliance.org/tech/omna/">http://www.openmobilealliance.org/tech/omna/</a>

**Table 1: Listing of Documents in DiagMon 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-diag:batteryinfo:1.0	DDF Document for DiagMon Function_BatteryInfo	OMA	V1.0	mo_diagmon_function_batteryinfo-v1.ddf	OMA-TS-DiagMon_Functions-1_0
urn:oma:mo:oma-diag:SMSUsage:1.0	DDF Document for DiagMon Function_SMSUsage	OMA	V1.0	mo_diagmon_function_smsusage-v1_0.ddf	OMA-TS-DiagMon_Functions-1_0
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_0
urn:oma:mo:oma-diag:SMSOptions:1.0	DDF Document for DiagMon Function_SMSOptions	OMA	V1.0	mo_diagmon_function_smsoptions-v1_0.ddf	OMA-TS-DiagMon_Functions-1_0
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_0
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_0
urn:oma:mo:oma-diag:NFC:1.0	DDF Document for DiagMon Function_NFC	OMA	V1.0	mo_diagmon_function_nfc-v1_0.ddf	OMA-TS-DiagMon_Functions-1_0
urn:oma:mo:oma-diag:paniclog:1.0	DDF Document for DiagMon Function_paniclog	OMA	V1.0	mo_diagmon_function_paniclog-v1_0.ddf	OMA-TS-DiagMon_Functions-1_0
urn:oma:mo:oma-diag:trapeventlogging:1.0	DDF Document for DiagMon Function_TrapEventLog	OMA	V1.0	mo_diagmon_function_TrapEventLog-v1_0.ddf	OMA-TS-DiagMon_Functions-1_0
urn:oma:mo:oma-diag:MMSUsage:1.0	DDF Document for DiagMon Function_MMSUsage	OMA	V1.0	mo_diagmon_function_TrapEventLog-v1_0.ddf	OMA-TS-DiagMon_Functions-1_0
urn:oma:mo:oma-diag:BrowsingUsage:1.0	DDF Document for DiagMon Function_BrowsingUsage	OMA	V1.0	mo_diagmon_function_BrowsingUsage-v1_0.ddf	OMA-TS-DiagMon_Functions-1_0

	e				-1_0
urn:oma:mo:oma-diag:DataCallAndDataSession:1.0	DDF Document for DiagMon Function_DataCallDataSession	OMA	V1.0	mo_diagmon_function_DataCallDataSession-v1_0.ddf	OMA-TS-DiagMon_Functions-1_0
urn:oma:mo:oma-diag:phonebook:1.0	DDF Document for DiagMon Function_Phonebook	OMA	V1.0	mo_diagmon_function_phonebook_v1_0.ddf	OMA-TS-DiagMon_Functions-1_0
urn:oma:mo:oma-diag:memory:1.0	DDF Document for DiagMon Function_Memory	OMA	V1.0	mo_diagmon_function_memory-v1_0.ddf	OMA-TS-DiagMon_Functions-1_0
urn:oma:mo:oma-diag:RFParms_3GPP_GSM:1.0	DDF Document for DiagMon Function_RFParameters_3GPP	OMA	V1.0	mo_diagmon_function_RFParms_3GPP_GSM-v1_0.ddf	OMA-TS-DiagMon_Functions-1_0
urn:oma:mo:oma-diag:RFParms_3GPP_UMTS:1.0	DDF Document for DiagMon Function_RFParameters_UMTS	OMA	V1.0	mo_diagmon_function_RFParms_3GPP_UMTS-v1_0.ddf	OMA-TS-DiagMon_Functions-1_0
urn:oma:mo:oma-diag:RFParms_3GPP_LTE:1.0	DDF Document for DiagMon Function_RFParameters_LTE	OMA	V1.0	mo_diagmon_function_RFParms_3GPP_LTE-v1_0.ddf	OMA-TS-DiagMon_Functions-1_0
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_0

## 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/O>>	DiagMon Client	

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/O>>	DiagMon Server	

Table 3: ERDEF for DiagMon Server-side Requirements



## Appendix A. Change History (Informative)

### A.1 Approved Version History

Reference	Date	Description
OMA-ERELED-DiagMon-V1_1	20 Dec 2011	Status changed to Approved by TP: OMA-TP-2011-0443-INP_DiagMon_V1_1_ERP_for_Final_Approval