



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

## **Candidate Version 1.0 – 20 Apr 2010**

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**Open Mobile Alliance**  
OMA-ERELD-DiagMon-V1\_0-20100420-C

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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

- [DiagMon-AD] “DiagMon Architecture”, Open Mobile Alliance™, OMA-AD-DiagMon-V1\_0, URL: <http://www.openmobilealliance.org/>
- [DiagMon-DDF] “DiagMon DDF”, Open Mobile Alliance™, OMA-SUP-MO\_DiagMon-V1\_0, URL: <http://www.openmobilealliance.org/>
- [DiagMon-RD] “DiagMon Requirements”, Open Mobile Alliance™, OMA-RD-DiagMon-V1\_0, URL: <http://www.openmobilealliance.org/>
- [DiagMon-TS] “DiagMon Technical Specification”, Open Mobile Alliance™, OMA-TS-DiagMon-V1\_0, URL: <http://www.openmobilealliance.org/>
- [DiagMonTrapMO-TS] “DiagMonTrap MO Technical Specification”, Open Mobile Alliance™, OMA-TS-DiagMonTrapMO-V1\_0, URL: <http://www.openmobilealliance.org/>
- [DiagMonTrapMO-DDF] “DiagMonTrapMO DDF”, Open Mobile Alliance™, OMA-SUP-MO\_DiagMonTrapMO-V1\_0, 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 2.7, Open Mobile Alliance™, OMA-ORG-Dictionary-V2\_7, 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

<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.

## 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_0-20070306-C	Requirement Document for DiagMon Enabler
<b>Architecture Document</b>		
[DiagMon_AD]	OMA-AD-DiagMon-V1_0-20090414-C	Architecture Document for DiagMon Enabler
<b>Technical Specifications</b>		
[DiagMon_TS]	OMA-TS-DiagMonMO-V1_0-20100420-C	Technical Specification for DiagMon Enabler
[DiagMonTrapMO TS]	OMA-TS-DiagMonTrapMO-V1_0-20090414-C	Technical Specification for the DiagMon Trap MO Enabler
<b>Supporting Files</b>		
[DiagMon_DDF]	OMA-SUP-MO_DiagMon-V1_0-20090414-C	DDF Document for DiagMon Framework Working file in DM_Managed Object directory: file: oma-sup-mo_diagmon-v1.0.ddf path: <a href="http://www.openmobilealliance.org/tech/omna/">http://www.openmobilealliance.org/tech/omna/</a>
[DiagMonTrapMO DDF]	OMA-SUP-MO_DiagMonTrapMO-V1_0-20090414-C	DDF Document for DiagMon Trap MO Working file in DM_Managed Object directory: file: oma-sup-mo_diagmontrapmo-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-diagmon:1.0	Diagnostics and Monitoring MO	DM WG	1.0	OMA-SUP-MO_DiagMon-V1_0-20080422-D	OMA-TS-DiagMon-V1_0-20090303-D

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 operation	DM WG	1.0	OMA-TS-DiagMon-V1_0-20090303-D	urn:oma:mo:oma-diagmon:1.0
	TrapNotification	Used to claim that the alert message conveys the trap notification	DM WG	1.0	OMA-TS-DiagMonTrapMO-V1_0-20090303-D	urn:oma:mo:oma-diagmontrap: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
n/a	n/a	No prior version

### A.2 Draft/Candidate Version 1.0 History

Document Identifier	Date	Sections	Description
Draft Versions OMA-ERELED-DiagMon-V1_0	21 Oct 2008	All	Initial baseline draft
	06 Jan 2009	All	Final cleanup prior to Consistency Review Incorporated agreed CR: OMA-DM-Diag-2008-0072R01
	01 Feb 2009	6	Editorial changes
	04 Mar 2009	6,  All	Incorporated agreed CRs: OMA-DM-Diag-2009-0017R01 Editorial changes: <ol style="list-style-type: none"> <li>1. Changed header &amp; footer – document name</li> <li>2. Updated document identifiers in this table (A.2)</li> <li>3. Set document language to English</li> <li>4. Fixed spelling errors</li> <li>5. Set all fonts to Times New Roman</li> </ol>
	18 Mar 2009	5	Document List updated
Candidate Version OMA-ERELED-DiagMon-V1_0	14 Apr 2009	n/a	Status changed by TP OMA-TP-2009-0138- INP_DiagMon_V1_0_ERP_for_Candidate_Approval
Draft Version OMA-ERELED-DiagMon-V1_0	03 Jun 2009	5	Document Listing Updated
Candidate Version OMA-ERELED-DiagMon-V1_0	10 Jun 2009	5	Status Changed by TP OMA-TP-2009-0268R02-INP_DiagMon_V1_0_ERP_for_Notification Document Listing Updated
Draft Version OMA-ERELED-DiagMon-V1_0	26 Mar 2010	5	Document Listing Updated Rectified RD Candidate date
Candidate Version OMA-ERELED-DiagMon-V1_0	20 Apr 2010	n/a	Status changed by OMA TP OMA-TP-2010-0177- INP_DiagMon_V1.0_ERP_for_Candidate_re_approval