



Enabler Release Definition for Device Apps Network Efficiency (DANE)

Candidate Version 1.0 – 13 Jan 2015

Open Mobile Alliance
OMA-ERELD-DANE-V1_0-20150113-C

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1. Scope

The scope of this document is limited to the Enabler Release Definition of Device Apps Network Efficiency (DANE) v1.0 according to OMA Release process and the Enabler Release specification baseline listed in section 5.

2. References

2.1 Normative References

- [DANE_RD_v1_0] “Device Apps Network Efficiency Requirements, Version 1.0”, Open Mobile Alliance™, OMA-RD-DANE-V1_0-D,
[URL:http://www.openmobilealliance.org/](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](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/](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/](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

Enabler Release 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 fulfil a number of related market requirements.

Minimum Functionality Description Description of the guaranteed features and functionality that will be enabled by implementing the minimum mandatory part of the Enabler Release.

3.3 Abbreviations

| | |
|--------------|--------------------------------|
| ERDEF | Enabler Requirement Definition |
| ERELD | Enabler Release Definition |
| OMA | Open Mobile Alliance |
| OMNA | Open Mobile Naming Authority |

4. Release Version Overview

The OMA DANE Enabler supports the following:

- a set of Device APIs to be exposed to Device Apps by a Device Service Optimizer; through those APIs authorized Apps will register to the Optimizer declaring their needs in terms of QoS, tolerance to delay etc;
- mapping rules (applied by the Device Service Optimizer) between Apps requesting a particular QoS, the related IP flows and network interfaces on Device.

4.1 Version 1.0 Functionality

DANE V1.0 covers:

- Apps Registration and Events Notification API (exposed by “Device Service Optimizer”)
- The DSO inner logics, i.e. how the DSO reacts to Registration request of a Device App
- How the DSO requires a dedicated bearer to the network,
- DSO Measurements functionality and the Events Notification API
- Policies to manage requests from Device Apps.

5. Document Listing for DANE V1.0

This section is normative.

| Doc Ref | Permanent Document Reference | Description |
|--------------------------------|------------------------------|---|
| Requirement Document | | |
| [DANE_RD] | OMA-RD-DANE-V1_0-20150113-C | Requirement Document for DANE v1.0 Enabler |
| Architecture Document | | |
| [DANE_AD] | OMA-AD-DANE-V1_0-20150113-C | Architecture Document for DANE v1.0 Enabler |
| Technical Specification | | |
| [DANE_TS] | OMA-TS-DANE-V1_0-20150113-C | Technical Specification for DANE V1.0 Enabler |

Table 1: Listing of Documents in DANE v1.0 Enabler

6. OMNA Considerations

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 DANE v1.0 – Client Requirements

This section is normative.

| Item | Feature / Application | Requirement |
|------------------------------|-----------------------|-------------|
| OMA-ERDEF-DANE-C-001-<<M/O>> | DANE Client | |

Table 2: ERDEF for DANE Client-side Requirements

9. ERDEF for DANE v1.0 – Server Requirements

This section is normative.

| Item | Feature / Application | Requirement |
|------------------------------|-----------------------|-------------|
| OMA-ERDEF-DANE-S-001-<<M/O>> | DANE Server | |

Table 3: ERDEF for DANE 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-DANE-V1_0 | 23 Feb 2013 | All | Initial baseline for RD review. |
| | 18 Apr 2013 | 5 | Updated RD draft version after closure of all Formal Review comments |
| | 25 Apr 2013 | 5 App A | Updated RD draft version before submission for Candidate approval Editorial: release version fixed in A.2 title |
| Candidate Version: OMA-ERELED-DANE-V1_0 | 07 May 2013 | N/A | Status changed to Candidate by TP Ref #OMA-TP-2013-0120- INP_DANE_V1_0_RD_for_Candidate_approval |
| Draft Versions: OMA-ERELED-DANE-V1_0 | 28 Jul 2013 | 5 | Updated the document listing with the Architecture document |
| | 26 Sep 2013 | 5 | Updated the document listing |
| | 20 Feb 2014 | 5 | Updated the permanent document list prior to AD Formal Review closure |
| Candidate Version: OMA-ERELED-DANE-V1_0 | 18 Mar 2014 | All | Status changed to Candidate by TP TP Ref # OMA-TP-2014-0057- INP_DANE_V1_0_AD_for_Candidate_approval |
| Draft Versions: OMA-ERELED-DANE-V1_0 | 06 Aug 2014 | 5 | Updated document list prior to consistency review. |
| | 16 Dec 2014 | 5 | Editorial update of permanent document references in section 5 |
| Candidate Version: OMA-ERELED-DANE-V1_0 | 13 Jan 2015 | All | Status changed to Candidate by TP TP Ref # OMA-TP-2014-0280- INP_DANE_V1_0_ERP_and_ETR_for_Candidate_Approval |