



Enabler Validation Plan for vObject

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1. Scope

This document details the Validation plan for the vObject 1.0 Enabler Release. The successful accomplishment of the validation activities will be required for the Enabler to be considered for Approved status.

The validation plan for the vObject Enabler Release specifications is based on testing expectations in the Enabler Test Requirements (ETR). While the specific test activities to be performed are described in the Enabler Test Specification (ETS) the test environment is described in this plan. This test environment details infrastructure, operational and participation requirements identified for the needed testing activities.

1.1 Assumptions

None

1.2 Exclusions

None

2. References

2.1 Normative References

- [IOPPROC] “OMA Interoperability Policy and Process”, Version 1.7, Open Mobile Alliance™, OMA-ORG-IOP_Process-V1_7, URL:<http://www.openmobilealliance.org/>
- [IOPTFG] “OMA TestFest Participation Guidelines”, Version 1.0, Open Mobile Alliance™, OMA-IOP-TestFest-Participation-Guidelines-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>
- [vBook1.0] "IrDA Infrared Mobile Communications v1.1", URL: <http://www.irda.org/>
- [vCal1.0] “vCalendar The Electronic Calendaring and Scheduling Exchange Format Version 1.0”, A versit Consortium Specification, September 18, 1996, URL: <http://www.imc.org/pdi/vcal-10.doc>
- [vCard2.1] “vCard The Electronic Business Card Version 2.1”, A versit Consortium Specification, September 18, 1996, URL: <http://www.imc.org/pdi/vcard-21.doc>
- [vObject10] " vObject Minimum Interoperability Profile ", Open Mobile Alliance™, OMA-TS-vObject-V1_0, <http://www.openmobilealliance.org/>
- [vObject10-ERELED] "Enabler Release Definition for vObject minimum interoperability profile ", Open Mobile Alliance™, OMA-ERELED-vObject-V1_0, <http://www.openmobilealliance.org/>
- [vObject10-ETR] "Enabler Test Requirements for vObject minimum interoperability profile " Open Mobile Alliance™, OMA-ETR-vObject-V1_0, <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/>
- [RFC1521] “MIME(Multipurpose Internet Mail Extensions) Part One:Mechanisms for Specifying and Describing the Format of Internet Message Bodies”, N.Borenstein, Bellcore, N.Freed, Innosoft, September 1993, <http://www.faqs.org/rfcs/rfc1521.html>
- [RFC2045] "Multipurpose Internet Mail Extensions (MIME) Part One: Format of Internet Message Bodies", N. Freed, Innosoft, N. Borenstein, First Virtual, November 1996
- [RFC2821] "Simple Mail Transfer Protocol", J. Klensin, AT&T Laboratories, April 2001, <http://www.faqs.org/rfcs/rfc2821.html>
- [RFC2822] "Internet Message Format", P. Resnick, Editor, QUALCOMM Incorporated, April 2001 <http://www.faqs.org/rfcs/rfc2822.html>
- [SyncML-IOP-Whitepaper] “SyncML Common Object Interoperability White Paper”, Open Mobile Alliance™, OMA-DS-2004-0052-Interoperability-White-Paper on OMA DS web portal, 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”, are normative, unless they are explicitly indicated to be informative.

3.2 Definitions

| | |
|-------------------------|---|
| vObject composer | An application for user to compose vObject data |
| vObject parser | An application to parse and register vObject data |

3.3 Abbreviations

| | |
|-------------|--|
| ETR | Enabler Test Requirements |
| ETS | Enabler Test Specifications |
| IOP | Interoperability Technical Working Group |
| JPEG | Joint Photographic Expert Group |
| OMA | Open Mobile Alliance |
| TS | Technical Specifications |
| UTC | Universal Time Coordinated |

4. Enabler Validation Description

vObject minimum interoperability profile is based on the vCard 2.1, vCalendar 1.0 and vBookmark1.0 specifications. The TS document serves as an implementation guideline to ensure consistent and unambiguous interpretation of the relevant base specifications. The specification is aimed at the mobile communications community to foster interoperability across different terminals, platforms and user agents.

Ambiguities in the vCard2.1, vCalendar1.0 and vBookmark1.0 specifications coupled with the lack of well-known implementation guidelines has led to various commercial implementations that result in interoperability problems. For instance, vCard2.1, vCalendar1.0 and vBookmark1.0 provide several options for content types and file extensions definitions but without defining mandatory support, vCard2.1 allows both ISO 8601basic and extended format to specify date and time, the minimum size of the vObject is not defined and etc.

Therefore the objectives of this specification are three fold.

- to define a set of vObject conformance
- to constrain the implementation choices from original vCard2.1, vCalendar1.0 and vBookmark1.0 specifications
- to clarify the ambiguities of the syntax contained in those specifications.

Interoperability of vObjects covers a range of issues. It is the intention of this specification to address the issues of physical data formatting for these objects as well as specifying a standard presentation for commonly used data properties. These issues have been identified as a subset of the larger set of interoperability; it does not attempt to address all the interoperability issues known to exist with the specifications.

As a conclusion it can be said that the TS for vObject it is already the solution for the interoperability issues found by the authors on the original vCard2.1, vCalendar1.0 and vBookmark1.0 specifications. The solutions pointed were already verified by the authors and do not require further validation.

Also the recommendations made are pure conformance guidelines that if implemented will assure the usage of this enabler by more complex enablers. The interoperability of this “upper layer” enablers is out of the scope of vObjects and should be addressed by their validation plan and not vObject validation plan

It is then recommended to consider the specifications well validated and not to spend time on revalidate them.

5. TestFest Activities

5.1 Enabler Test Guidelines

The vObjects ETR is composed of 21 mandatory test requirements for the vCard 2.1 from which three are interoperability requirement, to test the generic handling of a .vcf file via local interface, web / wap browsing and email attachments. The remaining test requirements request to verify the correct generation and decoding of the different properties as specified on the vCard 2.1 section of vObject.

It has also 18 mandatory test requirements for vCalendar 1.0 from which four are interoperability, to test the generic handling of .vcs of type vEvent and vToDo and of the mime file type transferred via web / wap browsing and email attachments.

The mandatory test requirements finish with 8 test requirements for vBookMark from which 4 are interoperability test requirements to verify the generic handling of .url and .vbm files via the local interface and the support of the corresponding mime types support when downloading them via web / wap browsing and as email attachment.

All the optional test requirements refer to testing the correct composition and parsing of different properties.

As the objective of IOP is to validate the interoperability of the specifications and not conformance of the implementations it is not required to exercise generic scenarios that would only assure the minimum support of the enabler and already validated by the authors of the TS.

5.1.1 Minimal Test Configuration

Not applicable

5.1.2 Minimal Participation Guidelines

Not applicable

5.1.3 Optimal TestFest Achievement Guidelines

Not applicable

5.2 Enabler Test Requirements

5.2.1 Test Infrastructure Requirements

Not applicable

5.2.2 Enabler Execution Flow

Not applicable

5.2.3 Test Content Requirements

Not applicable

5.2.4 Test Limitations

5.2.4.1 Physical

Not applicable

5.2.4.2 Resources

Not applicable

5.2.5 Test Restrictions

Not applicable

5.2.6 Test Tools

For this version of this document it is not predict to supply a conformance test tool to assist implementing the enabler

5.2.6.1 Existing Tools to be Used

Not applicable

5.2.6.2 Test Tool Requirements

Not applicable

5.2.7 Resources Required

Not applicable

5.3 Tests to be Performed

5.3.1 Entry Criteria for TestFest

Not applicable

| Test Case Id | Special Conditions |
|--------------|--------------------|
| | |
| | |
| | |
| | |

Table 1: Listing of Tests for Entry Criteria for TestFest

5.3.2 Testing to be Performed at TestFest

Not applicable

| Test Case Id | Special Conditions |
|--------------|--------------------|
| | |
| | |
| | |
| | |

Table 2: Listing of Tests to be Performed at TestFest

5.4 Enabler Test Reporting

5.4.1 Problem Reporting Requirements

Problem reporting will be handled as per IOP Process via the PR Tool.

5.4.2 Enabler Test Requirements

Already covered in section 5.1.

6. Alternative Validation Activities

Not applicable

7. Approval Criteria

This enabler is only a restriction of the data formatting. This can be interpreted as a data only enabler. This idea was socialised with BT MAE which agreed with the IOP view. All testing activities for the enabler are validation of the conformance. Interoperability aspects are encountered when another enabler implements the usage of vObject 1.0. As such, no further interoperability testing is required within OMA.

Appendix A. Change History

(Informative)

A.1 Approved Version History

| Reference | Date | Description |
|----------------------|-------------|-------------------------|
| OMA-EVP-vObject-V1_0 | 13 Feb 2009 | TP Approved TP#24 Macau |