

HL7 Lint

Overview

HL7 Web Lint is an online web portal that can be used to validate Australian ORU and REF messages (HL7V2.4) and also against select HL7 International standards to check for common compliance issues. It does checks on parsability of the HL7, the message structure (The order of the segments) and checks for some common errors that we have seen. It is not an exhaustive check by any means but will often identify issues quickly.

Its designed to be used by both developers and technically orientated end users to check problem files. This will produce a xhtml file and load it into your default browser.

This software carries no warranty but we would appreciate any bug reports and suggestions for improvement.

Send us an email at info@medical-objects.com.au.

The checks done are aimed at HL7 V2 local profiles, specifically V2.4 but many checks are appropriate for other versions and profiles.

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Website

<https://hl7lint.medical-objects.com.au/>

Example Output

The screenshot displays a web-based report titled "Medical-Objects HL7 Message Validation Report". The report includes a header section with test details, a statistics and errors section with a list of alerts, warnings, and errors, and a detailed check of message characters and parsing. The statistics section shows 1 alert, 1 warning, and 1 error. The error list includes a major error in the MSH-1 field. The message parsing section shows the message passed all checks.

Medical-Objects HL7 Message Validation Report
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Report Comment
No comment

Test Header

- Info | HL7 Profile: HL7AU_REF_201706:HL7 Version V2.4
- Info | HL7 Version: HL7 Version V2.4
- Info | HL7 Filename: Imperfect Referral Example.ref
- Info | Message Count: 1

Message 1

- Info | Message Sender: Buderim GE Centre Demo "DAESC6C-A510-43B3-A509-C5F729B2D368-CUID"
- Info | Control ID: M0E060B2235987-956

Statistics and Errors

- Alert | Count: 1 | Filter: Displayed | a minor error on an optional field but where it is classed good practice to fill, or where there is unsupported optional condition e.g. including the timezone to a HL7 v2 report message
- Warning | Count: 1 | Filter: Displayed | an optional field contains no data e.g. missing data in the MSH-6 field where the Routing ID is not found in namespace component
- Error | Count: 1 | Filter: Displayed | a major error occurred on a mandatory field, such as missing or incorrect values compared to HL7 v2 manual and tables e.g. no data in MSH-1 field
- Info | Count: 9 | Filter: Displayed | information field in an HL7 v2 report message e.g. HL7 message type ORU
- Passed | Count: 18345 | Filter: Displayed | a field has passed the computable rules for the HL7 version? identified in the header including tables and conformance points
- Not Implemented | Count: 137 | Filter: Displayed | no rule for the check has been implemented
- Skipped | Count: 3562 | Filter: Displayed | the field is unvalued or cannot be logically checked
- Manual Check | Count: 0 | Filter: Displayed | the user should perform manual checks for this item
- Internal Error | Count: 0 | Filter: Displayed | the test could not be performed due to an internal error in the validation tool. The user should check their configuration or seek assistance from support.

Count: 18667 | Total Checks

Check Message Characters

Message Size (characters): 41188

- Passed | Has Illegal Characters:
- Passed | Has Line Feed Characters:

Check Message Parsing

- Passed | Parse Check:

Check All Messages

Message Count: 1

HL7 Message

Message Index: 1

Check Message Semantics

- Info | HL7 Message Type: REF | HL7 Message Type
- Info | HL7 Message Trigger Event: 112 | HL7 Message Trigger Event
- Info | HL7 Message Structure ID: REF_112 | HL7 Message Structure ID

HL7 Message Structure

- Passed | HL7 Message Segment structure checks: REF_112
- Passed | Segment structure test: REF_112

Check Message

Trigger Event Value: true