

Static Analysis Results Interchange Format (SARIF) Version 2.1.0 Errata 01

Committee Specification Draft 01

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Additional artifacts:

This document is one component of a Work Product that also includes:

* OASIS Standard with embedded Errata. *Static Analysis Results Interchange Format (SARIF) Version 2.1.0 Plus Errata01*. Edited by Michael C. Fanning and Laurence J. Golding. 09 December 2021. OASIS Standard incorporating Draft 01 of Errata 01. <https://docs.oasis-open.org/sarif/sarif/v2.1.0/errata01/csd01/sarif-v2.1.0-errata01-csd01-complete.html>.
* Change-marked (redlined) OASIS Standard document. *Static Analysis Results Interchange Format (SARIF) Version 2.1.0 Plus Errata01 (redlined)*. Edited by Michael C. Fanning and Laurence J. Golding. 09 December 2021. OASIS Standard incorporating Draft 01 of Errata 01. <https://docs.oasis-open.org/sarif/sarif/v2.1.0/errata01/csd01/sarif-v2.1.0-errata01-csd01-redlined.html>.
* JSON schemas: <https://docs.oasis-open.org/sarif/sarif/v2.1.0/errata01/csd01/schemas/>

Related work:

This document lists Errata for:

* *Static Analysis Results Interchange Format (SARIF) Version 2.1.0*. Edited by Michael C. Fanning and Laurence J. Golding. 27 March 2020. OASIS Standard. <https://docs.oasis-open.org/sarif/sarif/v2.1.0/os/sarif-v2.1.0-os.html>.

Abstract:

This document lists Errata for the OASIS Standard *Static Analysis Results Interchange Format (SARIF) Version 2.1.0*.

Status:

This document was last revised or approved by the OASIS Static Analysis Results Interchange Format (SARIF) TC on the above date. The level of approval is also listed above. Check the "Latest stage" location noted above for possible later revisions of this document. Any other numbered Versions and other technical work produced by the Technical Committee (TC) are listed at <https://www.oasis-open.org/committees/tc_home.php?wg_abbrev=sarif#technical>.

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# Introduction

This document lists the approved changes to Static Analysis Results Interchange Format (SARIF) Version 2.1.0 [[SARIF](#SARIF)].

Additional documents containing the final specification with these changes marked and included are also available and linked in the section "[Additional artifacts](#AdditionalArtifacts)" on the title page.

# Changes to SARIF

Each of the changes to be included in Sarif upon approval of these Errata is listed in the following sections. The title of each section includes a link to the github issue along with explanatory text and material. The github repository with all issues is accessible at <https://github.com/oasis-tcs/sarif-spec/issues/>.

## Issue [#457](https://github.com/oasis-tcs/sarif-spec/issues/457): Bug in sample: "src/" => "bin/"

In the EXAMPLE in §3.4.6, change the uri for BINROOT from ".../src/" to ".../bin/":

"BINROOT": {

"uri": "file:///C:/browser/bin/",

"description": {

"text": "The build output directory."

}

}

## Issue [#458](https://github.com/oasis-tcs/sarif-spec/issues/458): Some originalUriBaseIds uri properties in examples lack trailing slash

Add a trailing slash to ‘originalUriBaseId’ properties.

§3.14.14, EXAMPLE 1, SRCROOT:

"originalUriBaseIds": {

"PROJECTROOT": {

"uri": "file:///C:/Users/Mary/code/TheProject/",

"description": {

"text": "The root directory for all project files."

}

},

"SRCROOT": {

"uri": "src/",

"uriBaseId": "PROJECTROOT",

"description": {

"text": "The root of the source tree."

}

}

}

"originalUriBaseIds": {

"PROJECTROOT": {

"description": {

"text": "The root directory for all project files."

}

},

"SRCROOT": {

"uri": "src/",

"uriBaseId": "PROJECTROOT",

"description": {

"text": "The root of the source tree."

}

}

}

§3.23.8, EXAMPLE, HOME and PACKAGE\_ROOT:

"originalUriBaseIds": {

"HOME": {

"uri": "file:///home/user/"

}

"PACKAGE\_ROOT": {

"uri": "package/",

"uriBaseId": "HOME"

},

},

§3.25.2, EXAMPLE, WEBHOST:

"originalUriBaseIds": { # See §3.14.14.

"WEBHOST": {

"uri": "http://www.example.com/"

},

## Issue [#460](https://github.com/oasis-tcs/sarif-spec/issues/460): Explain why ".." path segments can't be normalized out

In §3.10.2, clarify that “..” segments can’t be normalized in all cases due to the possibility of a reparse point.

NOTE 2: ".." path segments are dangerous because the semantics of the file system on which the SARIF log file was produced might not match the semantics of the file system on which it is consumed. For example, the presence of a symbolic link in the path might redirect the consumer to an unpredictable location.

## Issue [#461](https://github.com/oasis-tcs/sarif-spec/issues/461): Discourage ".." in file scheme URIs

In §3.10.2, add the statement that consumers **SHOULD** reject paths that contain “..” segments.

SARIF consumers SHALL NOT normalize ".." segments out of a path. A consumer SHOULD reject paths that contain ".." segments, otherwise a consumer SHALL treat distinct portions of paths up to and including the rightmost ".." segment as unique directories on the file system, even if [[RFC3986](#RFC3986)] normalization would produce identical paths.

## Issue [#462](https://github.com/oasis-tcs/sarif-spec/issues/462): Clarify that a region requires a "start" property.

In §3.30.1, clarify that a ‘region’ SHALL contain one of ‘startLine’, ‘charOffset’ or ‘byteOffset’. Update SARIF schema with this constraint as well, by adding the following statement:

A region SHALL contain at least one of startLine, charOffset, or byteOffset.

## Issue [#464](https://github.com/oasis-tcs/sarif-spec/issues/464): Clarify meaning of 'resultFile' artifact role.

In §3.24.6, clarify that ‘resultFile’ is only for files which haven’t been explicitly configured as scan targets (in which case the ‘analysisFile’ role should be used).

* "resultFile": A result was detected in this artifact (which the analysis tool was not explicitly instructed to scan).

NOTE 3: For example, a scanner might be configured to analyze a C source file and find a result in a header file that it includes. The header file may be marked with the resultFile role. The C file should be marked with the analysisTarget role, however, as it was explicitly configured as a scan target.

## Issue [#468](https://github.com/oasis-tcs/sarif-spec/issues/468): Recommend the path-noscheme form for relative URIs.

In §3.4.3, clarify that relative reference shall not take the form of a non-scheme absolute path reference (i.e., a single leading slash) except in cases when doing so distinguishes two distinct resources.

A relative reference **SHALL NOT** begin with two slash characters (a ‘network-path’ reference per section 4.2 of [[RFC3986](#RFC3986)]. A relative reference **SHALL NOT** begin with a single slash character (an ‘absolute-path’ reference per section 4.2 of [[RFC3986](#RFC3986)]) unless doing so is required to distinguish between distinct items in archive formats, such as zip and tar.

NOTE 1: For example, "/a.txt" and "a.txt" can both exist as distinct files in the same archive.

## Issue [#476](https://github.com/oasis-tcs/sarif-spec/issues/476): Comprehensive SARIF file example is not a valid JSON.

In section K.4, update comprehensive SARIF file to make it valid content.

## Issue [#477](https://github.com/oasis-tcs/sarif-spec/issues/477): Add appendices for media type and URI scheme registrations.

Add normative reference to 1.3 for MIME registration process:

[RFC2048] N. Freed, J. Klensin, J. Postel, Multipurpose Internet Mail Extensions (MIME) Part Four: Registration Procedures, <http://www.ietf.org/rfc/rfc2048.txt>, IETF, 1996.

Add Appendix M. (Non-Normative) MIME Types and File Name Extensions:

The following is a list of MIME types and file extensions for files that conform to this specification, registered according to [RFC2048].

|  |  |  |
| --- | --- | --- |
| MIME type | Extension | Description |
| application/sarif+json | .sarif,  .sarif.json | SARIF log files ([§3](#_File_format)). |
| application/sarif-external-properties+json | .sarif-external-properties,  .sarif-external-properties.json | SARIF external property files ([§4](#_External_property_file)). |

## Issue [#480](https://github.com/oasis-tcs/sarif-spec/issues/480): Don't allow leading / in relative artifact location URIs.

3.4.3. ‘uri’ property of ‘artifactLocation’. Make it explicit that leading forward slashes are not permitted in artifact location URIs.

## Issue [#481](https://github.com/oasis-tcs/sarif-spec/issues/481): Schema doesn't allow sarifLog.runs to be null.

Schema should allow ‘sarifLog.runs’ to be a null value (indicating a catastrophic error was encountered during log file generation).

"runs": {

"description": "The set of runs contained in this log file.",

"type": [ "array", "null" ],

"minItems": 0,

"uniqueItems": false,

"items": {

"$ref": "#/definitions/run"

}

## Issue [#487](https://github.com/oasis-tcs/sarif-spec/issues/487): Enums in the JSON Schema should include a type.

Provide explicit JSON type (which is universally “string”) for all schema enums.

"version": {

"description": "The SARIF format version of this log file.",

"enum": [ "2.1.0" ],

"type": "string"

}

## Issue [#488](https://github.com/oasis-tcs/sarif-spec/issues/488): The schema of the `run.language` and `toolComponent.language` properties is incorrect.

Correct the regex pattern that validates ‘run.language’ and ‘toolComponent.language’ properties, to the following:

^(?i)[a-z]{2}(-[a-z]{2})?$

## Issue [#494](https://github.com/oasis-tcs/sarif-spec/issues/494): Update known misspellings across schema, spec, etc.

Correct misspellings of ‘identifer’ in SARIF schemas and ‘extermalized’ in the specification.

# Conformance

The Errata listed in this document do not modify the conformance requirements of SARIF.

1. References

This appendix contains the normative and informative references that are used in this document.

While any hyperlinks included in this appendix were valid at the time of publication, OASIS cannot guarantee their long-term validity.

* 1. Normative References

The following documents are referenced in such a way that some or all of their content constitutes requirements of this document.

[SARIF]

*Static Analysis Results Interchange Format (SARIF) Version 2.1.0*. Edited by Michael C. Fanning and Laurence J. Golding. 27 March 2020. OASIS Standard. <https://docs.oasis-open.org/sarif/sarif/v2.1.0/os/sarif-v2.1.0-os.html>.

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