

Comment Resolution Matrix for OpenC2 Language Specification Version 1.0 CSRD01

Item #	Source	Email Link	Page	Line	Comment Summary	GH Issue Link	Resolution Summary	GH Change Link	Material?
LS-001	Paul Knight	2018-11-12T13:53:05	8	22	In section 1.5.1, the reference to section 1.4 should refer to either 1.2 or 1.3. (1.2 is probably better).	Issue #127	See Issue	Pull #270	NO
LS-002	Paul Knight	2018-11-12T13:53:05			Include hyperlinked cross-references among sections	Issue #127	See Issue	Pull #270	NO
LS-003	Paul Knight	2018-11-12T13:53:05			Populate "Acknowledgements" section with appropriate names	Issue #129	See Issue	Commit bb8a2f4	NO
LS-004	Paul Knight	2018-11-12T13:53:05			Table 1-1 is corrupted in the markdown version, manually fixed for PR version.	N/A	We will address this issue in converting the Google Doc into Markdown. It is no longer an issue since it was manually fixed. We will be editing the markdown file directly from this point on in our process.	N/A	NO
LS-005	Toby Considine	2018-11-14T19:01:07			Response status text shouldn't be extended with additional meaning.	Issue #131	See Issue	N/A	NO
LS-006	Toby Considine	2018-11-14T19:03:41			Include grammar in language specification, PIM/PSM Consideration	Issue #132	See Issue	N/A	NO
LS-007	Toby Considine	2018-11-14T19:05:54			Define consistent approach to Tuples and Singletons Language-compatible Profiles	Issue #133	See Issue	N/A	NO
LS-008	Michael Stair	2018-11-28T13:46:51			Support IP Address CIDR/Subnets	Issue #134	See Issue	Pull #289	YES
LS-009	Michael Stair	2018-11-28T14:39:59			Clarify JADN and OpenC2 relationship	Issue #135	See Issue	Pull #238	YES
LS-010	Dave Kemp	2018-11-28T15:34:41			Specify text representations for IP addresses.	Issue #139	See Issue	Pull #289	YES
LS-011	Dave Kemp	2018-11-28T17:41:53			Specify hex representation for binary values.	Issue #140	See Issue	Pull #253	YES
LS-012	Dave Kemp	2018-11-28T18:45:50			"args" field, if present, should have at least one value	Issue #141	See Issue	Pull #286	YES
LS-013	Dave Lemire	2018-11-29T12:56:45	17	41-55	Add explanatory language to first property tables.	Issue #142	See Issue	Pull #255	YES
LS-014	Dave Lemire	2018-11-29T14:02:09			Various editorial comments	Issue #143	See Issue	Pull #282	NO
LS-015	Toby Considine	2018-12-03T06:34:05	8	30	40-character long name restriction	Issue #188	See Issue	Pull #273	NO
LS-016	Toby Considine	2018-12-03T06:34:05	9	5	Is Actuator normatively defined?	Issue #189	See Issue	Pull #272	NO
LS-017	Toby Considine	2018-12-03T06:34:05	9	13	Profiles MAY extend the language by adding specifiers	Issue #190	See Issue	N/A	NO
LS-018	Toby Considine	2018-12-03T06:34:05	9	22-28	Consider moving section to above paragraph that starts with 9-9 and using the definitions in the intervening paragraphs	Issue #191	See Issue	Pull #270	NO
LS-019	Toby Considine	2018-12-03T06:34:05	9	34	Is there a normative meaning to the phrase "captured or necessary"?	Issue #192	See Issue	Pull #270	NO
LS-020	Toby Considine	2018-12-03T06:34:05	10	26	Are any authentication protocols intended in rectangle on left?	Issue #193	See Issue	N/A	NO
LS-021	Toby Considine	2018-12-03T06:34:05	11	35	Consider a section between current 1.7 and 1.8 on Rules for Extension.	Issue #194	See Issue	Pull #278	YES
LS-022	Toby Considine	2018-12-03T06:34:05	11	38-44	Are actions extensible?	Issue #194	See Issue	Pull #278	YES
LS-023	Toby Considine	2018-12-03T06:34:05	11	43	Clarify JSON serialization.	Issue #153	See Issue	N/A	NO
LS-024	Toby Considine	2018-12-03T06:34:05	11	51	Clarify header properties with Transfer Specification.	Issue #195	See Issue	N/A	NO

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Item #	Source	Email Link	Page	Line	Comment Summary	GH Issue Link	Resolution Summary	GH Change Link	Material?
LS-025	Toby Considine	2018-12-03T06:34:05	12	18	Should the final "target" be "TARGET"?	Issue #196	See Issue	Pull #251	NO
LS-026	Toby Considine	2018-12-03T06:34:05	12	24	It is unclear what the difference between Target and Actuator is.	Issue #197	See Issue	N/A	NO
LS-027	Toby Considine	2018-12-03T06:34:05	13	7	Purpose of STATUS	Issue #198	See Issue	N/A	NO
LS-028	Toby Considine	2018-12-03T06:34:05	14	51	Consider Duration as defined in ISO 8601 and its derivatives (RFC 3309).	Issue #199	See Issue	N/A	NO
LS-029	Toby Considine	2018-12-03T06:34:05	16	21-38	Are these rules for JSON Serialization, or conformance points for non-JSON serialization	Issue #153	See Issue	N/A	NO
LS-030	Toby Considine	2018-12-03T06:34:05	16	42	Suggest moving to Section 2.	Issue #200	See Issue	N/A	NO
LS-031	Toby Considine	2018-12-03T06:34:05	17	9	Message Types: Consider if there are "report" interactions (and message types).	Issue #201	See Issue	N/A	NO
LS-032	Toby Considine	2018-12-03T06:34:05	17	43	Consider "The OpenC2 command specifies an action to be performed by a Target"	Issue #202	See Issue	Pull #261	NO
LS-033	Toby Considine	2018-12-03T06:34:05	17	41-55	Should this section be moved to 2.1?	Issue #200	See Issue	N/A	NO
LS-034	Toby Considine	2018-12-03T06:34:05	18	45-46	Recommend that Implementers should be cautioned to avoid these terms or risk that future specifications may invalidate (cause to not interoperate) their work.	Issue #203	See Issue	Pull #263	NO
LS-035	Toby Considine	2018-12-03T06:34:05	18	41	Investigate. Previous comment on "Reporting" and "Report Specifiers repeated here.	Issue #204	See Issue	N/A	NO
LS-036	Toby Considine	2018-12-03T06:34:05	18	43	What is the intent of "remediate"?	Issue #205	See Issue	N/A	NO
LS-037	Toby Considine	2018-12-03T06:34:05	19	7-9	Is there a provision for extending the conformant actions list?	Issue #206	See Issue	N/A	NO
LS-038	Toby Considine	2018-12-03T06:34:05	19	46	Is there an extension registry planned?	Issue #207	See Issue	N/A	NO
LS-039	Toby Considine	2018-12-03T06:34:05	19	48	Targets under consideration	Issue #208	See Issue	Pull #265	NO
LS-040	Toby Considine	2018-12-03T06:34:05	20	38	And that is?...	Issue #209	See Issue	Pull #277	YES
LS-041	Toby Considine	2018-12-03T06:34:05	20	45	May be bridging space between information model and serialization requirements.	Issue #153	See Issue	N/A	NO
LS-042	Toby Considine	2018-12-03T06:34:05	21	39	Is any particular action expected on a "Moved Permanently" (301)?	Issue #210	See Issue	Pull #247	YES
LS-043	Toby Considine	2018-12-03T06:34:05	22		This is the first discussion of extensions. Should this be called out in the table in 3.3.1.2?	Issue #211	See Issue	Pull #240	YES
LS-044	Toby Considine	2018-12-03T06:34:05	22	23	Is nsid a normative term? Where is it defined?	Issue #212	See Issue	Pull #240	YES
LS-045	Toby Considine	2018-12-03T06:34:05	22	44	Conforming extensions should be gathered together either within the document, or with a specific conformance extension for specifications that claim to conform to this specification.	Issue #213	See Issue	Pull #278	YES
LS-046	Toby Considine	2018-12-03T06:34:05	23	44	Suggest "Consumers must".	Issue #214	See Issue	Pull #252	YES

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LS-047	Toby Considine	2018-12-03T06:34:05	23	44	MUST reject command is a specific conformance point that should be called out in the Conformance section	Issue #215	See Issue	N/A	NO
LS-048	Toby Considine	2018-12-03T06:34:05	23	44	What if the target is a bridge, or is a CIDR range? What are the requirements then?	Issue #216	See Issue	N/A	NO
LS-049	Toby Considine	2018-12-03T06:34:05	25	35	Does this table support multiples and for which variables?	Issue #217	See Issue	N/A	NO
LS-050	Toby Considine	2018-12-03T06:34:05	26	40	Consider ISO8601 or its IETF derivative RFC 3339.	Issue #218	See Issue	N/A	NO
LS-051	Toby Considine	2018-12-03T06:34:05	26	45	Consider ISO8601 Duration and related Java class DURATION. Must support granularity down to milliseconds.	Issue #218	See Issue	N/A	NO
LS-052	Toby Considine	2018-12-03T06:34:05	28	11	Can a system respond with a status episodically, perhaps on a fixed interval (duration)?	Issue #219	See Issue	N/A	NO
LS-053	Toby Considine	2018-12-03T06:34:05	28	37	What is the relationship between this Target and the Targets in the Command table?	Issue #220	See Issue	Pull #257	YES
LS-054	Toby Considine	2018-12-03T06:34:05	29	31-40	Is this a sufficiency of Bounds?	Issue #221	See Issue	N/A	NO
LS-055	Toby Considine	2018-12-03T06:34:05	31	6	Should there be a generic OpenC2 Identifier type sub-typed to Message ID, Command ID, Message/Routing ID, Report Id, etc.?	Issue #222	See Issue	Pull #248	YES
LS-056	Toby Considine	2018-12-03T06:34:05	Section 3.4		Throughout Section 3.4, terms are defined as used, leading to some duplicate definitions, definition overrides, etc. Suggest overrides, etc.	Issue #223	See Issue	N/A	NO
LS-057	Toby Considine	2018-12-03T06:34:05	Section 4		Reads like an abortive grammar for language. Such a section could be better placed, with other grammar items, in early section 2.	Issue #224	See Issue	Pull #267	YES
LS-058	Toby Considine	2018-12-03T06:34:05	Section 5		Suggest bringing together in coherent sub-section on conforming derivative specifications here.	Issue #225	See Issue	Pull #267	YES
LS-059	Dave Kemp	2018-12-07T19:54:11			Add new "ip_net" target for text representations of IP addresses.	Issue #144	See Issue	Pull #289	YES
LS-060	Sean Welsh	2018-12-10T16:48:18			Need more examples	Issue #166	See Issue	N/A	NO
LS-061	Sean Welsh	2018-12-10T16:48:18			Consider having an OpenAPI specification available.	Issue #167	See Issue	N/A	NO
LS-062	Sean Welsh	2018-12-10T16:48:18			JADN may be a barrier to implementation.	Issue #135	See Issue	Pull #238	YES
LS-063	TAB	2018-12-10T18:59:07			TAB-1616: Use http://docs.oasis-open.org/templates/ietf-rfc-list/ietf-rfc-list.html to compare and correct the normative citations.	Issue #229	See Issue	Pull #298	NO
LS-064	TAB	2018-12-10T18:59:07			TAB-1617: Create a normative vs. non-normative text statement and then mark text accordingly.	Issue #227	See Issue	Pull #281	NO

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LS-065	TAB	2018-12-10T18:59:07			TAB-1618: Label 1.6, 1.7, 1.8 as non-normative.	Issue #227	See Issue	Pull #281	NO
LS-066	TAB	2018-12-10T18:59:07			TAB-1619: Label 2. OpenC2 Language Description as non-normative with minor revisions.	Issue #227	See Issue	Pull #281	NO
LS-067	TAB	2018-12-10T18:59:07			TAB-1620: Terms like "valid," "information model," "constructed," etc., are vastly overrated. Avoid them unless necessary. Try: "The data types used in OpenC2 messages are:" as a model.	Issue #233	See Issue	Pull #230	YES
LS-068	TAB	2018-12-10T18:59:07			TAB-1621: I would drop the notion of "derivation" as a noise word/concept and simply state the authorities for each data type. For your own identifier, simply state the rule, it isn't "derived from string" unless you are writing a grant proposal. :)	Issue #228	See Issue	Pull #255	YES
LS-069	TAB	2018-12-10T18:59:07			TAB-1622: Offset all "for example and other examples from normative text. Just search for example and offset the following text as an example and mark as non-normative.	Issue #227	See Issue	Pull #281	NO
LS-070	TAB	2018-12-10T18:59:07			TAB-1623: To the editors, no doubt the text is clear and well-organized, to the casual reader, it is not. There should be hyperlinks to further details, when relevant and there should be some type of organization apparent to the reader.	Issue #229	See Issue	Pull #298	NO
LS-071	TAB	2018-12-10T18:59:07			TAB-1624: Make the indicated text into a note.	Issue #232	See Issue	Pull #264	NO
LS-072	TAB	2018-12-10T18:59:07			TAB-1625: Move up and restructure around these two items, assuming that is the scope of this draft.	Issue #231	See Issue	Pull #259	NO
LS-073	TAB	2018-12-10T18:59:07			TAB-1626: Create a namespace for actuator and resolves internal conflicts on what you do or don't say about it.	Issue #226	See Issue	Pull #260	NO
LS-074	TAB	2018-12-10T18:59:07			TAB-1627: Wouldn't it be clearer to say: These are labels for JSON values for the transmission of cybersecurity messages? The values of the labels are not defined but should fall within the semantic field of the label. Ex. Seeking donalddhacker@2600PennDC should be labeled as a query (Action), email_addr (Target), Actuator (sys specific) There's no shame in being a uniform labeling. That is in and of itself a worthwhile task.	Issue #230	See Issue	Pull #255	YES

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LS-075	TAB	2018-12-10T18:59:07			TAB-1628: Make this entire paragraph a note and label as non-normative.	Issue #208	See Issue	Pull #265	NO
LS-076	TAB	2018-12-10T18:59:07			TAB-1629: Label the example as non-normative if not all examples are declared non-normative.	Issue #227	See Issue	Pull #281	NO
LS-077	TAB	2018-12-10T18:59:07			TAB-1630: Make this paragraph a note and label as non-normative.	Issue #203	See Issue	Pull #263	NO
LS-078	TAB	2018-12-10T18:59:07			TAB-1631: Serious consideration of what "conformance" means when requiring the use of labels for the interchange of messages needs to be had. This isn't workable.	Issue #246	See Issue	Pull #263	NO
LS-079	TAB	2018-12-10T18:59:07			TAB-1632: My suggestion is to drop data import altogether since you can't specify it for all cases. How data gets imported is up to users of your specification and then it must meet your requirements. How it got there is anyone's guess.	Issue #211	See Issue	Pull #240	YES
LS-080	TAB	2018-12-10T18:59:07			TAB-1633: Truth is all schemas are subject to extension and you should write this and your conformance language to specify *conforming* extensions.	Issue #194	See Issue	Pull #278	YES
LS-081	TAB	2018-12-10T18:59:07			TAB-1634: Insert cross-refs and/or hyperlinks as appropriate on 3.4 and elsewhere.	Issue #229	See Issue	Pull #298	NO
LS-082	TAB	2018-12-10T18:59:07			TAB-1635: Complete Section 4.	Issue #224	See Issue	Pull #267	YES
LS-083	TAB	2018-12-10T18:59:07			TAB-1636: Before seeking public reviews in the future, do make serious attempts at all sections before posting for public review.	Issue #229	See Issue	Pull #298	NO
LS-084	TAB	2018-12-10T18:59:07			TAB-1637: Label appendices as normative or non-normative	Issue #227	See Issue	Pull #281	NO
LS-085	Jason Romano	2018-12-10T21:32:47			The examples in Annex B and throughout the document need to be aligned with the language specification.	Issue #169	See Issue	N/A	NO
LS-086	Jason Romano	2018-12-10T21:32:47			The property tables in Section 3 need to be aligned with the schema.	Issue #170	See Issue	Pull #299	NO
LS-087	Jason Romano	2018-12-10T21:32:47			Annex C, Acronyms, needs to be completed.	Issue #171	See Issue	Pull #241	NO
LS-088	Jason Romano	2018-12-10T21:32:47			The Table of Contents is missing in the markdown version of the specification.	Issue #172	See Issue	Pull #266	NO
LS-089	Duncan Sparrell	2018-12-10T21:35:19	6	25-30	DKS01: Add "Deny" to Action definition.	Issue #146	See Issue	Pull #270	NO
LS-090	Duncan Sparrell	2018-12-10T21:36:33	6	25-30	DKS02: Add "Stateless Packet Filter" to Actuator definition.	Issue #147	See Issue	Pull #270	NO
LS-091	Duncan Sparrell	2018-12-10T21:37:26	6	25-30	DKS03: Add "IP address" to Target definition.	Issue #148	See Issue	Pull #270	NO

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LS-092	Duncan Sparrell	2018-12-10T21:38:18	6	25-30	DKS04: Add "OpenC2" as modifier to "message" in Command and Response.	Issue #149	See Issue	N/A	NO
LS-093	Duncan Sparrell	2018-12-10T21:39:16	6	25-30	DKS05: Define message and content.	Issue #150	See Issue	Pull #269	NO
LS-094	Duncan Sparrell	2018-12-10T21:44:59	12	16-29	DKS06: Add "Command_ID" back in.	Issue #151	See Issue	Pull #248	YES
LS-095	Duncan Sparrell	2018-12-10T21:46:37	12	42	DKS07: "Mandatory to Implement" replace with REQUIRED.	Issue #152	See Issue	Pull #250	NO
LS-096	Duncan Sparrell	2018-12-10T21:48:12	15	38	DKS08: Be more specific when specifying serialization	Issue #153	See Issue	N/A	NO
LS-097	Duncan Sparrell	2018-12-10T21:49:25	21	6-8	DKS09: What is the purpose of the "jdn:" prefix?	Issue #154	See Issue	Pull #238	YES
LS-098	Duncan Sparrell	2018-12-10T21:51:06	21	6	DKS10: Number of Profiles	Issue #155	See Issue	N/A	NO
LS-099	Duncan Sparrell	2018-12-10T21:52:47	22	46	DKS11: (Section 3.3.4) Rules for extending the language	Issue #156	See Issue	Pull #285	YES
LS-100	Duncan Sparrell	2018-12-10T21:54:33	25	15	DKS12: (Section 3.4.1.6) Number of Features	Issue #157	See Issue	Pull #234	YES
LS-101	Duncan Sparrell	2018-12-10T21:55:22	30	4	DKS13: (Section 3.4.3.4) Unknown JADN nomenclature	Issue #158	See Issue	Pull #238	YES
LS-102	Duncan Sparrell	2018-12-10T21:56:03	32	3	DKS14: Change "Mandatory" to "REQUIRED"	Issue #152	See Issue	Pull #250	NO
LS-103	Duncan Sparrell	2018-12-10T21:57:02	32	11-12	DKS15: (Section 4) Response to Mandatory Commands	Issue #160	See Issue	Pull #267	YES
LS-104	Duncan Sparrell	2018-12-10T21:58:00	33	8-15	DKS16: (Section 5.1) Target Conformance	Issue #161	See Issue	Pull #278	YES
LS-105	Duncan Sparrell	2018-12-10T21:58:44	33	8-15	DKS17: (Section 5.1) Arg Conformance	Issue #162	See Issue	Pull #278	YES
LS-106	Duncan Sparrell	2018-12-10T21:59:30	33	8-15	DKS18: (Section 5.1) Actuator Conformance	Issue #163	See Issue	Pull #278	YES
LS-107	Duncan Sparrell	2018-12-10T22:00:41	33	9-29	DKS19: (Section 5) Conformance statement numbering	Issue #164	See Issue	Pull #278	YES
LS-108	Duncan Sparrell	2018-12-10T22:01:27	38	36	DKS20: Unmatched bracket cardinality notation in JADN.	Issue #165	See Issue	N/A	NO
LS-109	Dave Kemp	2019-01-04T14:33:59	19	42-46	Inconsistent use of "extension"	Issue #242	See Issue	Pull #249	NO
LS-110	Brian Berliner	2019-01-14T20:53:20	21	9-10	Format of OpenC2 Response "pairs" field	Issue #235	See Issue	Pull #262	YES
LS-111	Brian Berliner	2019-01-14T23:16:33	20	53-54	OpenC2 Response "kvps" field Data Type too restrictive	Issue #236	See Issue	Pull #280	YES
LS-112	Dave Kemp	2019-01-22T17:36:31			Change Cardinality to Multiplicity	Issue #244	See Issue	Pull #245	NO
LS-113	Dave Kemp	2019-01-31T21:02:56			Importing Extension Profiles	Issue #256	See Issue	Pull #240	YES