	Cyclon	eDX 1.3			Cyclone	DX 1.4			SPDX 2	2.2		
Class / Type	Property	Property Type	Cardinality	Class / Type	Property	Property Type	Cardinality	Class / Type	Property	Property Type	Cardinality	Notes
Top Level]	bomFormat	String - "CycloneDX"	11	[Top Level]	bomFormat	String - "CycloneDX"	11					Fixed string - not applicable
[Top Level]	specVersion	String	11	[Top Level]	specVersion	String	11	[Top Level]	spdxVersion	String	11	
[Top Level]	serialNumber	String	01	[Top Level]	serialNumber	String	01	[Top Level]	documentNamespace	String - URI	11	Converted to a URI if present, otherwise a new namespace is created with a random UUID
[Top Level]	version	integer	11	[Top Level]	version	integer	11	[Top Level]	documentNamespace	String - URI	11	Version is appended to the SPDX document namespace
[Top Level]	metadata	Metadata Object	01	[Top Level]	metadata	Metadata Object	01	[Top Level]	creationInfo	CreationInfo	11	
[Top Level]	components	Component Object	0*	[Top Level]	components	Component Object	0*	[Top Level]	packages, files	Package Object	0*	All components are added. If there is no metadata correlated to the SPDX document describes all of these components are added as the document describes elements
[Top Level]	services	Service Object	0*	[Top Level]	services	Service Object	0*	[Top Level]	annotations	Annotation Object	0*	No SPDX equiv.
						L						Not applicable for the SPDX document level - only at the component level. One possibility is to
[Top Level]	externalReferences	ExteranlReference Object		[Top Level]	externalReferences	ExteranlReference Object		[Top Level]	annotations	Annotation Object	0*	create an SPDX package for the SBOM which would contain this information
[Top Level]	dependencies	Dependency Object	0*	[Top Level]	dependencies		0*	[Top Level]	relationships	Relationship	0*	Relationship type dependency of
[Top Level]	compositions	Composition Object	0*	[Top Level]	compositions	Composition Object	0*	[Top Level]	relationships	Relationship	0*	Completeness information is added as comments to the Relationship.
				[Top Level]	vulnerabilities	Vulnerability Object	0*					No SPDX equiv plan to generate separate VEX document
				[Top Level]	signature	Signature Object	01					No SPDX equiv plan to generate separate VEX document
								ITop Level1	SPDXID	String	11	Constant - always the same value
								[Top Level]	reviewed	Review Object	0*	Deprecated as of 2.0
								[lob cever]	leviewed	Neview Object	0	Currently not used - this could be used to capture license text from the license object in the
								[Top Level]	hasExtractedLiceningInfos	ExtractedLicense Object	0 *	future
								[Top Level]	name	String	11	Generated from the documentDescribes
								[Top Level]	comment	String	01	Not used
								[Top Level]	snippets	Snippet Object	0*	No equivalent in CDX
MetaData	timestamp	String	01	MetaData	timestamp	String	01	CreationInfo	created	Timestamp	11	
MetaData	tools	Tool	0*	MetaData	tools	Tool	0*	CreationInfo	creators	String	1*	Checksums are captured in Annotations
MetaData	author	OrganizationalContact	0*	MetaData	author	OrganizationalContact	0*	CreationInfo	creators	String	1*	Contact phone numbers and multiple emails care captured in Annotations
MetaData	component	Component	01	MetaData	component	Component	01	[Top Level]	documentDescribes	String - SPDX ID	1*	If this is not present, all top level compenents are added
												Annotations are used to capture any fields which can not be manned to SPDX. The Annotation
												Annotations are used to capture any fields which can not be mapped to SPDX. The Annotation type is OTHER and the comment is of the format MISSING_CDX_PROPERTY:
MetaData	manufacture	OrganizationalEntity	01	MetaData	manufacture	OrganizationalEntity	01	[Top Level]	annotations	Annotation Object	0*	<pre><pre>cpropertyname>#<pre>propertyJSONvalue></pre></pre></pre>
MetaData	supplier	OrganizationalEntity	01	MetaData	supplier	OrganizationalEntity	01	CreationInfo	creators	String	1*	Contact phone numbers and multiple emails care captured in Annotations
MetaData	licenses	LicenseChoice	0*	MetaData	licenses	LicenseChoice	0*	[Top Level]	dataLicense	String "CC0"	11	Defaults to CC0 if no metadata license is provided
								· · · · · ·		_		Annotations are used to capture any fields which can not be mapped to SPDX. The Annotation
												type is OTHER and the comment is of the format MISSING CDX PROPERTY:
MetaData	properties	Property	0*	MetaData	properties	Property	0*	[Top Level]	annotations	Annotation Object	0*	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>
								CreationInfo	comment	String	01	Not used
												Annotations are used to capture any fields which can not be mapped to SPDX. The Annotation type is OTHER and the comment is of the format MISSING_CDX_PROPERTY: <pre><pre><pre><pre><pre></pre></pre></pre></pre></pre>
												type is OTHER and the comment is of the format MISSING_CDX_PROPERTY:
Component	type	enum	11	Component	type	enum	11	Package or File	annotations	Annotation Object	0*	
Component	mime-type	String	01	Component	mime-type	String	01	File	fileTypes	enum	0*	If a mime type does not map to the enum, it is added as an Annotation to the file
Component	bom-ref	String	01	Component	bom-ref	String	01	Package or File	ld	String	11	Converted to a format complying with the SPDX ID syntax
Component	supplier	OrganizationalEntity	01	Component	supplier	OrganizationalEntity	01	Package	supplier	String	01	Contact phone numbers and multiple emails care captured in Annotations
Component	author	String	01	Component	author	String	01	Package	originator	String	01	
Gumpunum	dation	oung	01	Component	douted	Curry	01	r donage	originator	Ouring	01	Annotations are used to centure any fields which can not be manned to SPDY. The Annotation
												Annotations are used to capture any fields which can not be mapped to SPDX. The Annotation type is OTHER and the comment is of the format MISSING_CDX_PROPERTY:
Component	publisher	String	01	Component	publisher	String	01	Package	annotations	Annotation Object	0*	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>
												Annotations are used to capture any fields which can not be mapped to SPDX. The Annotation
												Annotations are used to capture any fields which can not be mapped to SPDX. The Annotation type is OTHER and the comment is of the format MISSING_CDX_PROPERTY: <pre>cyropertyname>=</pre> cyropertyJSONvalue>
Component	group	String	01	Component	group	String	01	Package	annotations	Annotation Object	0*	<pre><pre><pre><pre>propertyname>=<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre>
Component	name	String	11	Component	name	String	11	Package or File	name	String	11	
Component	version	String	11	Component	version	String	01	Package	versionInfo	String	11	
Component	description	String	01	Component	description	String	01	Package	description	String	11	
												The scope declared on a component is used if the component is included in some type of
												The scope declared on a component is used if the component is included in some type of relationship. Otherwise it is ignored since scope must be taken into account in how the
Component	scope	enum	01	Component	scope	enum	01	Relationship	relationshipType	enum	11	component is used and is not intrinsic to the component itself.
Component	hashes	Hash	0*	Component	hashes	Hash	0*	Package or File	checksums	Checksum	1*	If a checksum algorithm is not supported by SPDX, it is added as an annotation
												Currently, license text information is added as annotations - this can be changed to using ExtractedLicenseInfos in the future
Component	licenses	LicenseChoice	01	Component	licenses	LicenseChoice	01	Package or File	declaredLicense or licensels	AnyLicenseInfo	11	ExtractedLicenseInfos in the future
Component	copyright	String	01	Component	copyright	String	01	Package	copyright	String	11	
Component	сре	String	01	Component	сре	String	01	Package	externalRef	ExternalRef	0*	
Component	purl	String	01	Component	purl		01	Package	externalRef	ExternalRef	0*	
Component	pun	oung	01	Component	pun	Curry	01	r donage	externance	LAGIIIGIIAGI	0	Although there is an external Ref which can be used, the Swid object contains the content, so
Component	swid	Swid	01	Component	swid	Swid	01	Package	annotations	Annotation Object	0*	the Annotation approach was chosen
Component	modified	boolean	01	Component	modified - deprecated			Package	sourceInfo	String	0*	Converted to String format
Component	pedigree	Pedigree	01	Component	pedigree	Pedigree	01	Package	relationships	Relationship	0*	Converted to Curry tornat
Component		ExternalReference	0*	Component	externalReferences	ExternalReference	0*	Package	externalRef	ExternalRef	0*	
Component	components	Component	0*	Component	components	Component	0*	Package	relationships	Relationship	0*	CONTAINS relationship is used for any sub-components
Component	evidence	Evidence		Component	evidence	Evidence	01	Package	attributionTexts	0.1	0*	Content is not copied into the attribution texts - this could be done, but it would require more
Component	evidence	Evidence	01	Component	evidence	Evidence	01	Раскаде	attribution i exts	String	0*	work to understand all supported enodings used by CycloneDX
												Annotations are used to capture any fields which can not be mapped to SPDX. The Annotation type is OTHER and the comment is of the format MISSING_CDX_PROPERTY:
Component	properties	Property	0*	Component	properties	Property	0*	Package or File	annotations	Annotation Object	0*	Type is OTHER and the comment is of the format MISSING_CDX_PROPERTY. propertyname>=
				Component	releaseNotes	ReleaseNote	01					New 1.4 fields have not vet been added or analyzed
				Component	signature	JSON Signature	01					New 1.4 fields have not yet been added or analyzed
				ponon	a.g. anure	roignature		Package		String	0 *	Not used
								Package	homePage	URL	01	Not used
								Package		VerificationCode	01	Not used
								Package	downloadLocation	URL	11	NOASSERTION value used
								Package	filesAnalyzed	boolean	01	Set to false
								Package	licenseComments	String	01	Not used
								Package	hasFiles	String	0*	Not used - Note - if the subcomponents are files, we could add logic to treat those as hasFiles
								Package	comment	String	01	Not used
								Package	summary	String	01	Not used
								Package	packageFileName	String	01	If the component type is a file, then the component name is also added to the packageFileName
								Package	licenselnfosFromFile	AnyLicenseInfo	0*	Not used
								Package	concludedLicense	AnyLicenseInfo	11	Use NOASSERTION
								File	noticeText	String	01	Not used
								File	artifactOfs	DoapPorject	0*	Deprecated - not used
								File	licenseComments	String	01	Not used
								File	comment	String	01	Not used
								File	fileContributors	String	0*	Not used
								File	licenseConcluded	AnyLicenseInfo	01	NOASSERTION value used
								File	fileDependencies	String	0*	Deprecated - not used
ExternalReference	url	String	11	ExternalReference	url	String	11	File ExternalRef	fileDependencies referenceLocator	String String	11	Deprecated - not used
			11	ExternalReference ExternalReference			11			String	11	Deprecated - not used
ExternalReference ExternalReference	comment	String String	01	ExternalReference	comment	String String		ExternalRef ExternalRef	referenceLocator	String String	11	most types are mapped to an existing SPDX pre-defined reference type, otherwise a custom
ExternalReference	comment				comment			ExternalRef	referenceLocator	String	11	Deprecated - not used most types are mapped to an existing SPDX pre-defined reference type, otherwise a custom reference type is defined with a prefix http://cyclonedx.org/referenctype/
	comment	String	01	ExternalReference	comment	String	01	ExternalRef ExternalRef	referenceLocator comment	String String	11	most types are mapped to an existing SPDX pre-defined reference type, otherwise a custom