



(<http://hl7.org/fhir>)**Current Build**



(<http://hl7.org/fhir/search.cfm>)



(<http://www.hl7.org>)

Diagnostics ([diagnostics-module.html](#)) > **Waveform**

Content

Examples ([waveform-examples.html](#))

Detailed Descriptions ([waveform-definitions.html](#))

Mappings ([waveform-mappings.html](#))

Profiles & Extensions ([waveform-profiles.html](#))

10.9 Resource Waveform - Content 🌐 ([waveform.html#10.9](#))

Health Care Devices 🔗 (http://www.hl7.org/Special/committees/healthcaredevices/index.cfm) Work Group	Maturity Level (resource.html#maturity): 0	Compartments (compartmentdefinition.html): Patient (compartmentdefinition-patient.html)
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Representation of a Waveform measurement on a patient, For Example: ECG.

10.9.1 Scope and Usage 🌐 ([waveform.html#bnc](#))

Todo

10.9.2 Resource Content 🌐 ([waveform.html#resource](#))

Structure	UML	XML	JSON	Turtle	R2 Diff	All
Structure						
Name (formats.html#table)	Flags (formats.html#table)	Card. (formats.html#table)	Type (formats.html#table)	Description & Constraints (f		
📁 Waveform (waveform-definitions.html#Waveform)			DomainResource (domainresource.html)	Waveform measurement		
🔗 patient (waveform-definitions.html#Waveform.patient)		1..1	Reference (references.html) (Patient (patient.html))	Who the Waveform is about		
🔑 identifier (waveform-definitions.html#Waveform.identifier)		0..*	Identifier (datatypes.html#Identifier)	Other identifiers for this Wavef		
🔗 basedOn (waveform-definitions.html#Waveform.basedOn)		0..*	Reference (references.html) (ReferralRequest (referralrequest.html) CarePlan (careplan.html) DiagnosticRequest (diagnosticrequest.html) ProcedureRequest (procedurerequest.html))	Request Fulfilled		
📊 status (waveform-definitions.html#Waveform.status)	?!	1..1	code (datatypes.html#code)	in-progress on-hold comple WaveformStatus (valueset-wav (terminologies.html#required),		
🕒 period (waveform-definitions.html#Waveform.period)		0..1	Period (datatypes.html#Period)	Time sample was taken		
📁 data (waveform-definitions.html#Waveform.data)		0..*	BackboneElement (backboneelement.html)	Waveform data		
🔑 indication (waveform-definitions.html#Waveform.data.indication)		0..1	string (datatypes.html#string)	Identifier of this data		
🔑 unit (waveform-definitions.html#Waveform.data.unit)		1..1	Coding (datatypes.html#Coding)	Measurement units MetricUnit 🔗 (https://rtmms.nis (terminologies.html#example),		
🔑 site (waveform-definitions.html#Waveform.data.site)		0..*	Coding (datatypes.html#Coding)	Where taken SNOMED CT Body Structures (\\ (terminologies.html#example),		
🕒 timeSpan (waveform-definitions.html#Waveform.data.timeSpan)		0..1	Period (datatypes.html#Period)	Period for bounded Waveforms		
🔑 techCond (waveform-definitions.html#Waveform.data.techCond)		0..*	Coding (datatypes.html#Coding)	Technical error condition TechnicalErrorConditions 🔗 (https://rtmms.nist.gov/rtmms (Preferred (terminologies.html		
📊 sampleRate (waveform-definitions.html#Waveform.data.sampleRate)		1..1	integer (datatypes.html#integer)	Number of samples per unit tin		
📊 resolution (waveform-definitions.html#Waveform.data.resolution)		0..1	integer (datatypes.html#integer)	Measurement resolution		
📊 encoding (waveform-definitions.html#Waveform.data.encoding)		0..1	string (datatypes.html#string)	Encoding used		
🕒 range (waveform-definitions.html#Waveform.data.range)		0..1	Period (datatypes.html#Period)	Sample range		
📁 filter (waveform-definitions.html#Waveform.data.filter)		0..*	BackboneElement (backboneelement.html)	Filter applied to the data		
🔑 type (waveform-definitions.html#Waveform.data.filter.type)		1..1	Coding (datatypes.html#Coding)	Containment hierarchy FilterTypes 🔗 (https://rtmms.nist.gov/rtmms (terminologies.html#preferred , Filter Sequence type FilterSequence 🔗 (https://rtmms.nist.gov/rtmms (Preferred (terminologies.html		
🔑 sequence (waveform-definitions.html#Waveform.data.filter.sequence)		0..1	Coding (datatypes.html#Coding)	Filter frequency		
🔑 frequency (waveform-definitions.html#Waveform.data.filter.frequency)		0..1	Ratio (datatypes.html#Ratio)			

isExtraLead (waveform-definitions.html#Waveform.data.isExtraLead)	0..1	boolean (datatypes.html#boolean)	Extra Lead
valueEnd (waveform-definitions.html#Waveform.data.valueEnd)	1..1	integer (datatypes.html#integer)	End index
valueOffset (waveform-definitions.html#Waveform.data.valueOffset)	1..1	integer (datatypes.html#integer)	Begin index
valueCount (waveform-definitions.html#Waveform.data.valueCount)	1..1	integer (datatypes.html#integer)	Number of values
value (waveform-definitions.html#Waveform.data.value)	1..*	decimal (datatypes.html#decimal)	Waveform values
display (waveform-definitions.html#Waveform.display)	0..*	BackboneElement (backboneelement.html)	Display attributes
sweepSpeed (waveform-definitions.html#Waveform.display.sweepSpeed)	0..1	Quantity (datatypes.html#Quantity)	Display sweep speed
grid (waveform-definitions.html#Waveform.display.grid)	0..*	integer (datatypes.html#integer)	Horizontal position
color (waveform-definitions.html#Waveform.display.color)	0..1	string (datatypes.html#string)	Color for line
scale (waveform-definitions.html#Waveform.display.scale)	0..1	Range (datatypes.html#Range)	Display scale range
physicalRange (waveform-definitions.html#Waveform.display.physicalRange)	0..1	Range (datatypes.html#Range)	Physiological range
marker (waveform-definitions.html#Waveform.marker)	0..*	BackboneElement (backboneelement.html)	Additional Markers and Events
indication (waveform-definitions.html#Waveform.marker.indication)	0..1	string (datatypes.html#string)	Marker ID
event (waveform-definitions.html#Waveform.marker.event)	0..*	BackboneElement (backboneelement.html)	Markers and events
indication (waveform-definitions.html#Waveform.marker.event.indication)	1..1	string (datatypes.html#string)	Marker event id
code (waveform-definitions.html#Waveform.marker.event.code)	1..1	Coding (datatypes.html#Coding)	Marker event type MarkersEvents https://rtmms.nist.gov/rtmms (Preferred terminologies.html#)
value (waveform-definitions.html#Waveform.marker.event.value)	1..1	Quantity (datatypes.html#Quantity)	Marker event value

? Documentation for this format (formats.html#table)

Alternate definitions: Master Definition (XML (waveform.profile.xml.html), JSON (waveform.profile.json.html)), XML (xml.html) Schema (waveform.xsd)/Schematron (waveform.sch) (for) + JSON (json.html) Schema (Waveform.schema.json), ShEx (waveform.shex.html) (for Turtle (rdf.html))

10.9.2.1 Terminology Bindings (waveform.html#tx)

Path	Definition	Type	Reference
Waveform.status	A set of codes indicating the current status of the Waveform	Required (terminologies.html#required)	WaveformStatus (valueset-waveform-status.html)
Waveform.data.unit	Describes the unit of metric	Preferred (terminologies.html#preferred)	IEEE 11073-10101 https://rtmms.nist.gov/rtmms/index.htm#!units
Waveform.data.site	Codes describing anatomical locations.	Example (terminologies.html#example)	SNOMED CT Body Structures (valueset-body-site.html)
Waveform.data.techCond	Technical Error Conditions	Preferred (terminologies.html#preferred)	IEEE 11073-10101 https://rtmms.nist.gov/rtmms/index.htm#!technicalErrorConditions
Waveform.data.filter.type	Filter types	Preferred (terminologies.html#preferred)	IEEE 11073-10101 https://rtmms.nist.gov/rtmms/index.htm#!FilterTypes
Waveform.data.filter.sequence	Filter Sequence	Preferred (terminologies.html#preferred)	IEEE 11073-10101 https://rtmms.nist.gov/rtmms/index.htm#!FilterSequence
Waveform.marker.event.code	Markers and Events	Preferred (terminologies.html#preferred)	IEEE 11073-10101 https://rtmms.nist.gov/rtmms/index.htm#!MarkersEvents

10.9.3 Search Parameters (waveform.html#search)

Search parameters for this resource. The common parameters (search.html#all) also apply. See Searching (search.html) for more information about searching in REST, messaging, and services.

Name	Type	Description	Paths
basedon	reference (search.html#reference)	Request Fulfilled	Waveform.basedOn
identifier	token (search.html#token)	Other identifiers for this Waveform	Waveform.identifier
patient	reference (search.html#reference)	Who the Waveform is about	Waveform.patient

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Links: Search [⬡](http://hl7.org/fhir/search.cfm) (http://hl7.org/fhir/search.cfm) | Version History (history.html) | Table of Contents (toc.html) | Compare to DSTU2 [⬡](http://services.w3.org/htmlDiff?doc1=http%3A%2F%2Fhl7.org%2Ffhir%2FDSTU2%2Fwaveform.html&doc2=http%3A%2F%2Fhl7.org%2Ffhir%2FDSTU2%2Fwaveform.html) (http://services.w3.org/htmlDiff?

doc1=http%3A%2F%2Fhl7.org%2Ffhir%2FDSTU2%2Fwaveform.html&doc2=http%3A%2F%2Fhl7.org%2Ffhir%2FDSTU2%2Fwaveform.html) |  (license.html) | Propose a change [⬡](http://gforge.hl7.org/gf/project/fhir/tracker/?action=TrackerItemAdd&tracker_id=677) (http://gforge.hl7.org/gf/project/fhir/tracker/?action=TrackerItemAdd&tracker_id=677)