
DLA/CDSIG-Schema-Draft-v0.0.1

DLA/CDSIG

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CONTENTS:

1	Project-level metadata	1
2	Study-level metadata	5
3	Dataset-level metadata	9
4	Event-level metadata (within dataset)	13
5	Participant-level metadata	15
6	Specification of actigraphy device	17
7	Specification of light-sensing device	19

PROJECT-LEVEL METADATA

Project-level metadata is metadata that describes the project. A project could be a wider organisational unit of studies. For example, there may be different substudies within a project.

https://github.com/cdsig/CDSIG-Schema/blob/main/project.json			
type		object	
properties			
• name	Informative or internal name of the project		
	type	string	
• uuid	This is a unique MD5 hash generated from the name field		
	type	string	
• funding_sources	Any funding sources supporting the project. If the funding number is available, it should be given		
	type	array	
	items	type	string
	minItems	1	
• description	Short narrative description of the project. This could include any further information on the project and the context in which it was completed		
	type	string	
• keywords	Key words describing the projects.		
	type	array	
	items	type	string
	minItems	3	
• contributors	#/definitions/person		
• project_status	Status of the project (i.e. if it is still running)		

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Table 1 – continued from previous page

	type	<i>object</i>			
	properties				
	• period	Time period during which the project took place			
		type	<i>object</i>		
		properties			
		• start_date_time	Start date-time for the project		
			type	<i>string</i>	
			format	date-time	
		• ongoing	Indicate if the project is still ongoing (true) or completed (false)		
			type	<i>boolean</i>	
		if	properties		
			• ongoing	const	True
		then	properties		
• stop_date_time	Stop date-time for the project				
	type		<i>string</i>		
format	date-time				
definitions					
• person	type	<i>object</i>			
	properties				
	• name	type	<i>string</i>		
	• role	Role ID according to the Contributor Role Ontology (https://www.ebi.ac.uk/ols/ontologies/cro)			
		type	<i>string</i>		
		pattern	^((CRO_[0-9]{7}))(CREDIT_[0-9]{8}))\$		
	• email	type	<i>string</i>		
		format	idn-email		
	• orcid	ORCID identifier			
		type	<i>string</i>		
		pattern	^[0-9]{4}-[0-9]{4}-[0-9]{4}-[0-9]{4}\$		
	• institution	type	<i>object</i>		
		properties			
		• name	type	<i>string</i>	

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Table 1 – continued from previous page

		• street_address	type	<i>string</i>
		• city	type	<i>string</i>
		• country	type	<i>string</i>

STUDY-LEVEL METADATA

Study-level metadata describes any information on a specific study, e.g. a specific data collection effort with multiple participants

https://github.com/cdsig/CDSIG-Schema/blob/main/study.json		
type	<i>object</i>	
properties		
• name	Informative or internal study name	
	type	<i>string</i>
• uuid	Unique MD5 hash generated from the <i>name</i> field	
	type	<i>string</i>
• prereg_doi	DOI (Digital Object Identifier) of pre-registration document describing data collection	
	type	<i>string</i>
• ethics_information	Name of ethics committee and approval number	
	type	<i>string</i>
• clinical_trial	Is this a registered clinical trial?	
	type	<i>boolean</i>
• description	Short narrative description of the study	
	type	<i>string</i>
• sample	Short description of the study sample.	
	type	<i>string</i>
• sample_groups	Description of the sample group(s) enrolled or examined in the study	
	type	<i>object</i>
	properties	
	• name	Name of group.
		type <i>string</i>
	• description	Description of sample group

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Table 1 – continued from previous page

		type	<i>string</i>
	• label	Label of sample group	
		type	<i>integer</i>
	• group_size	Group size	
		type	<i>integer</i>
		minimum	1
	• inclusion_criteria	Inclusion criteria for sample group, given as an array of strings	
		type	<i>array</i>
		items	type <i>string</i>
		minItems	0
	• exclusion_criteria	Exclusion criteria for sample group, given as an array of strings	
		type	<i>array</i>
		items	type <i>string</i>
		minItems	0
• intervention	Short description of the study intervention, if any		
	type	<i>string</i>	
• keywords	Key words describing the study.		
	type	<i>array</i>	
	items	type	<i>string</i>
	minItems	3	
• contributors	#/definitions/person		
if	properties		
	• clinical_trial	const	True
then	properties		
	• clinical_trial_id	Clinical trial identifier as well as registry	
		type	<i>string</i>
definitions			
• person	type	<i>object</i>	
	properties		
	• name	type	<i>string</i>
	• role	Role ID according to the Contributor Role Ontology (https://www.ebi.ac.uk/ols/ontologies/cro)	

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Table 1 – continued from previous page

		type	string	
		pattern	^((CRO_[0-9]{7}))(CREDIT_[0-9]{8}))\$	
	• email	type	string	
		format	idn-email	
	• orcid	ORCID identifier		
		type	string	
		pattern	^[0-9]{4}-[0-9]{4}-[0-9]{4}-[0-9]{4}\$	
	• institution	type	object	
		properties		
		• name	type	string
		• street_address	type	string
		• city	type	string
• country		type	string	

DATASET-LEVEL METADATA

Dataset-level metadata is metadata concerning one specific, per-participant dataset

https://github.com/cdsig/CDSIG-Schema/blob/main/dataset.json		
type	<i>object</i>	
properties		
• name	Dataset name.	
	type	<i>string</i>
• uuid	MD5 hash generated from the <i>name</i> field	
	type	<i>string</i>
• description	Short description of the dataset.	
	type	<i>string</i>
• instructions	Description of the instructions that were given to the study participants prior to or during collection of this data set	
	type	<i>object</i>
	properties	
	• verbatim_instruction	Verbatim instructions given to participant
		type <i>string</i>
	• wear_time	Number of days the participants were instructed to wear the actigraph. Fractional values are allowed
		type <i>number</i>
		minimum 0
• contributors	#/definitions/person	
• data_set	Information about the data collection effort.	
	type	<i>object</i>
	properties	

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Table 1 – continued from previous page

	• period	Time period during which the data collection was performed			
		type		<i>object</i>	
		properties			
		• start_date_time	Start date-time for the data collection		
			type		<i>string</i>
			format		date-time
		• ongoing	Indicate if the data collection is still ongoing		
			type		<i>boolean</i>
		if	properties		
			• ongoing	const	True
		then	properties		
			• stop_date_time	Stop date-time for the data collection	
type				<i>string</i>	
		format		date-time	
definitions					
• person	type		<i>object</i>		
	properties				
	• name	type		<i>string</i>	
	• role	Role ID according to the Contributor Role Ontology (https://www.ebi.ac.uk/ols/ontologies/cro)			
		type		<i>string</i>	
		pattern		^((CRO_[0-9]{7}) (CREDIT_[0-9]{8}))\$	
	• email	type		<i>string</i>	
		format		idn-email	
	• orcid	ORCID identifier			
		type		<i>string</i>	
		pattern		^[0-9]{4}-[0-9]{4}-[0-9]{4}-[0-9]{4}\$	
	• institution	type		<i>object</i>	
		properties			
		• name	type	<i>string</i>	

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Table 1 – continued from previous page

		• street_address	type	<i>string</i>
		• city	type	<i>string</i>
		• country	type	<i>string</i>

EVENT-LEVEL METADATA (WITHIN DATASET)

Event definition in the context of actigraphy or light data set

https://github.com/cdsig/CDSIG-Schema/blob/main/event.json		
type	<i>object</i>	
properties		
• event_id	The unique identifier for an event	
	type	<i>number</i>
	multipleOf	1
	minimum	0
• event_name	Name of the event	
	type	<i>string</i>
• start_date_time	Start date-time for an event	
	type	<i>string</i>
	format	date-time
• stop_date_time	Stop date-time for an event	
	type	<i>string</i>
	format	date-time
• comment	Comment about an event	
	type	<i>string</i>

PARTICIPANT-LEVEL METADATA

Information about the participant

https://github.com/cdsig/CDSIG-Schema/blob/main/participant.json		
type	<i>object</i>	
properties		
• age	Age of the participant	
	type	<i>string</i>
• uuid	MD5 hash generated from the <i>name</i> field.	
	type	<i>string</i>
• internalid	Internal ID	
	type	<i>string</i>
• sex	Sex	
	type	<i>string</i>
definitions		
• phenotype	type	<i>object</i>
	properties	
	• name	Phenotype
		type <i>string</i>
	• value	Value
		type <i>string</i>
	• required	['name', 'value']

SPECIFICATION OF ACTIGRAPHY DEVICE

Information about the actigraphy device

https://github.com/cdsig/CDSIG-Schema/blob/main/actigraphydevice.json		
type	<i>object</i>	
properties		
• manufacturer	Manufacturer of the device	
	type	<i>string</i>
• uuid	MD5 hash generated from the <i>name</i> field.	
	type	<i>string</i>
• model	Model of the device	
	type	<i>string</i>
• serial_number	Serial number of the device	
	type	<i>string</i>
• sensor_type	Measurement device type	
	type	<i>string</i>

SPECIFICATION OF LIGHT-SENSING DEVICE

Information about the light sensor used

https://github.com/cdsig/CDSIG-Schema/blob/main/lightsensor.json				
type		object		
properties				
• manufacturer	Manufacturer of the device			
	type	string		
• uuid	MD5 hash generated from the <i>name</i> field.			
	type	string		
• model	Model of the device			
	type	string		
• serial_number	Serial number of the device			
	type	string		
• sensor_type	Measurement device type			
	type	string		
definitions				
• channel	type	object		
	properties			
	• name	Name of the channel		
		type	string	
	• description	Description of the channel		
		type	string	
	• spectralsensitivity	type	object	
		properties		
		• spec-tral_sensitivity_calibration_status	type	boolean
		• spec-tral_sensitivity_calibration_type	type	string
		• spec-tral_sensitivity_calibration_details	type	string
		• required	['spectral_sensitivity_calibration_status']	