Node Information

Service

NODE_INFO (javadoc/org/arl/unet/Services.html#NODE_INFO) – Node information service

Agents offering the *Node Information* service manage and maintain a node's attributes such as address, location, speed etc. They support a set of parameters that are explained below.

Implementations

- NodeInfo (javadoc/org/arl/unet/nodeinfo/NodeInfo.html) – provides a repository for node information

Requests and Responses

Request	Possible Responses	Description
ParameterReq (javadoc/org/arl/unet/ParameterReq.html)	ParameterRsp (javadoc/org/arl/unet/ParameterRsp.html)	Get/set/list parameters

Parameters

Parameter	r/w	Description
address (javadoc/org/arl/unet/nodeinfo/NodeInfoParam.html#address)	rw	Node address (1 byte)
nodeName (javadoc/org/arl/unet/nodeinfo/NodeInfoParam.html#nodeName)	rw	Node name
location (javadoc/org/arl/unet/nodeinfo/NodeInfoParam.html#location)	rw	Node location ([x, y, z] meters)
speed (javadoc/org/arl/unet/nodeinfo/NodeInfoParam.html#speed)	rw	Node speed (meters/second)
heading (javadoc/org/arl/unet/nodeinfo/NodeInfoParam.html#heading)	rw	Node heading (degrees, 0 is North, clockwise)
turnRate (javadoc/org/arl/unet/nodeinfo/NodeInfoParam.html#turnRate)	rw	Node turn rate (degrees/second, positive clockwise)
diveRate (javadoc/org/arl/unet/nodeinfo/NodeInfoParam.html#diveRate)	rw	Node dive rate (meters/second)
mobility (javadoc/org/arl/unet/nodeinfo/NodeInfoParam.html#mobility)	rw	true if the node is mobile, false if it is static

Notifications ¶

Notification	Topic	Description
ParamChangeNtf (javadoc/org/arl/unet/ParamChangeNtf.html)	default	Notification about the modified address (javadoc/org/arl/unet/nodeinfo/NodeInfoParam.html#address)
ParamChangeNtf (javadoc/org/arl/unet/ParamChangeNtf.html)	PARAMCHANGE (javadoc/org/arl/unet/Topics.html#PARAMCHANGE)	Notification about the modified parameter

> **Todo**
> Network time synchronization related functionality of this service is yet to be fully defined.

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