

OCF “Fargo” – C.4.x Muscle Oxygen Monitor– Core Technology WG CR 3029

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***** Annex A *****

Table 1 Per Category list of Device Types

Device Category Name	UDC Device Name	Device Name	Device (Normative)	Type	Reference
Fitness		Muscle Oxygen Monitor	oic.d.muscleoxygenmonitor		C.4

***** Annex C *****

C.4 Standardized Device Types
Table 20: Alphabetical list of healthcare Device Types

Section	Device Name	Device Type (rt)
C.4.x	Muscle Oxygen Monitor	oic.d.muscleoxygenmonitor

C.4.x Muscle Oxygen Monitor

A muscle oxygen monitor provides an indication of the muscle oxygen saturation (SmO₂) and is used by athletes to monitor the intensity of their training, and by coaches and physiotherapists to identify which and when muscles are being used.

The SmO₂ is a measure of the percentage of hemoglobin that is saturated with oxygen in the capillaries of a muscle. The SmO₂ decreases as a muscle does work, for example, when a person is exercising. The SmO₂ increases when blood circulation brings new oxygen to the muscle. The SmO₂ varies from muscle to muscle depending on which muscle is used to perform a particular action.

Table xx: Healthcare Device Type of muscle oxygen monitor

Device Type (rt)	Resource Type Name	Resource Type Value	Requirement level
oic.d.muscleoxygenmonitor	Muscle Oxygen Saturation	oic.r.muscleoxygensaturation	M

C.4.x.1 Required Resource Types

A muscle oxygen monitor shall expose "oic.r.muscleoxygensaturation" to report the muscle oxygen saturation (SmO₂).

C.4.x.2 OCF-defined Optional Resource Types

See Table C.2 for additional commonly used Resource Types that could be used here.

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