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| CHANGE REQUEST |
| Meeting ID:\* | RDM#55 |
| Source:\* | Cyrille Bareau, Orange, cyrille.bareau@orange.comAndreas Kraft, Deutsche Telekom, Andreas.Kraft@t-systems.com |
| Date:\* | 2022-07-11 |
| Reason for Change/s:\* | See the introduction. |
| CR against: Release\* | Release 5 |
| CR against: WI\* | [x]  Active WI-0084[ ]  MNT maintenance / <Work Item number (optional)>Is this a mirror CR? Yes [x]  No [ ] mirror CR number: RDM-2022-0033 (Note to Rapporteur - use latest agreed revision)[ ]  STE Small Technical Enhancements / <Work Item number (optional)>Only ONE of the above shall be ticked |
| CR against: TS/TR\* | TS-0023 5.1.0 |
| Clauses \* | Changed clauses 5.8.10, 6.3.3. |
| Type of change: \* | [ ]  Editorial change[x]  Bug Fix or Correction[ ]  Change to existing feature or functionality[ ]  New feature or functionalityOnly ONE of the above shall be ticked |
| Other TS/TR(s) impacted | N/A |
| Post Freeze checking:\* | This CR contains only essential changes and corrections? YES [x]  NO [ ] This CR may break backwards compatibility with the last approved version of the TS? YES [ ]  NO [x]  |
| Template Version: January 2020 (do not modify) |

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GUIDELINES for Change Requests:

Provide an informative introduction containing the problem(s) being solved, and a summary list of proposals.

Each CR should contain changes related to only one particular issue/problem.

If this is a correction, and the change applies to previous releases, a separate “mirror CR” should be posted at the same time as this CR

Mirror CR: applies only when the text, including clause numbering are exactly the same.

Companion CR: applies when the change means the same but the baselines differ in some way (e.g. clause number).

Follow the principle of completeness, where all changes related to the issue or problem within a deliverable are simultaneously proposed to be made e.g. a change impacting 5 tables should not only include a proposal to change only 3 tables. Include any changes to references, definitions, and abbreviations in the same deliverable.

Follow the drafting rules.

All pictures must be editable.

Check spelling and grammar.

Use change bars for modifications.

The change should include the current and surrounding clauses to clearly show where a change is located and to provide technical context of the proposed change. Additions of complete clauses need not show surrounding clauses as long as the proposed clause number clearly shows where the proposed new clause is located.

Multiple changes in a single CR shall be clearly separated by horizontal lines with embedded text such as, start of change 1, end of change 1, start of new clause, end of new clause.

When subsequent changes are made to the content of a CR, then the accepted version should not show changes over changes. The accepted version of the CR should only show changes relative to the baseline approved text.

## Introduction

Change 1: the name of the property ‘areaNwkType’, of sub-device dmAreaNwkInfo, is not consistent with Rule 4-3, which states that sub-device properties must have a prefix ‘prop’. It is then renamed as ‘propAreaNwkType’.

Change 2:

* A missing table is added for properties of sub-devices.
* The values in the table of properties for module classes are removed, because they correspond to items that have previously migrated from properties to datapoints.

### \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Start of change 1 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

### 5.8.10 dmAreaNwkInfo

A dmAreaNwkInfo is a SDT SubDevice entity, mapped as a <flexContainer> resource that expresses the information about the devices in a M2M Area Network managed by the parent flexNode.

Table 5.8.10-1: Properties of dmAreaNwkInfo model

|  |  |  |  |
| --- | --- | --- | --- |
| Property Name | Property Type | Multiplicity | Description |
| propAreaNwkType | xs :string | 1 | Indicates the type of M2M Area Network |

Table 5.8.10-2: Modules of dmAreaNwkInfo model

|  |  |  |  |
| --- | --- | --- | --- |
| Module Instance Name | Module Class Name | Multiplicity | Description |
| dmAreaNwkDeviceInfo | dmAreaNwkDeviceInfo | 0..N | See clause 5.8.11 |

### \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* End of change 1 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

### \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Start of change 2 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

### 6.3.3 Resource attributes for properties and data points

In protocol bindings resource attributes names for properties of module classes shall be translated into short names of Table 6.3.3‑1.

Table 6.3.3‑1: Resource attribute short names (ModuleClass properties)

|  |  |  |
| --- | --- | --- |
| Attribute Name | Occurs in | Short Name |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

In protocol bindings resource attributes names for data points of module classes shall be translated into short names of Table 6.3.3‑2.

Table 6.3.3‑2: Resource attribute short names (ModuleClass data points)

|  |  |  |
| --- | --- | --- |
| Attribute Name | Occurs in | Short Name |
| absoluteEnergyConsumption | energyConsumption | ***abECn*** |
| absoluteStartTime | timer | ***abSTe*** |
| absoluteStopTime | timer | ***abST0*** |
| acousticStatus | acousticSensor | ***acoSs*** |
| adfStates | autoDocumentFeeder | ***adfSs*** |
| alarm | motionSensor, smokeSensor, temperatureAlarm, waterSensor | ***alarm*** |
| alarmStatus | alarmSpeaker | ***alaSs*** |
| altitude | geoLocation | ***altie*** |
| automode | airFlow | ***autoe*** |
| availableChannels | televisionChannel | ***avaCs*** |
| basalMetabolism | bodyCompositionAnalyser | ***basMm*** |
| bath | hotWaterSupply | ***bath*** |
| batteryThreshold | battery | ***batTd*** |
| blue | colour | ***blue*** |
| bmi | bodyCompositionAnalyser | ***bmi*** |
| bodyLength | bodyCompositionAnalyser | ***bodLh*** |
| bone | bioElectricalImpedanceAnalysis | ***bone*** |
| brightness | brightness | ***brigs*** |
| callerID | phoneCall | ***calID*** |
| callState | phoneCall | ***calSe*** |
| capacity | battery | ***capay*** |
| ch2o | airQualitySensor | ***ch2o*** |
| channelId | televisionChannel | ***chaId*** |
| channelName | televisionChannel | ***chaNe*** |
| charging | battery | ***charg*** |
| chargingCapacity | electricVehicleConnector | ***chaCy*** |
| co | airQualitySensor | ***co*** |
| co2 | airQualitySensor | ***co2*** |
| coarseness | grinder | ***coars*** |
| code | faultDetection, filterInfo | ***code*** |
| coldWash | clothesWasherJobModeOption | ***colWh*** |
| colourSaturation | colourSaturation | ***colSn*** |
| component | dmFirmware | ***compt*** |
| concentration | glucometer | ***concn*** |
| contextCarbohydratesAmount | glucometer | ***coCAt*** |
| contextCarbohydratesSource | glucometer | ***coCSe*** |
| contextExercise | glucometer | ***conEe*** |
| contextHealth | glucometer | ***conHh*** |
| contextLocation | glucometer | ***conLn*** |
| contextMeal | glucometer | ***conMl*** |
| contextMedication | glucometer | ***conMn*** |
| contextTester | glucometer | ***conTr*** |
| country | dmDeviceInfo | ***couny*** |
| cpuUsage | dmAgent | ***cpuUe*** |
| cupsNumber | brewing | ***cupNr*** |
| current | energyConsumption | ***currt*** |
| currentAdfState | autoDocumentFeeder | ***cuASe*** |
| currentDate | clock | ***curDe*** |
| currentJobMode | airConJobMode, airPurifierJobMode, clothesDryerJobMode, clothesWasherDryerJobMode, clothesWasherJobMode, cookerHoodJobMode, dehumidifierJobMode, dishWasherJobMode, robotCleanerJobMode, steamClosetJobMode | ***cuJMe*** |
| currentJobModeName | airConJobMode, airPurifierJobMode, clothesDryerJobMode, clothesWasherDryerJobMode, clothesWasherJobMode, cookerHoodJobMode, dehumidifierJobMode, dishWasherJobMode, robotCleanerJobMode, steamClosetJobMode | ***cJMNe*** |
| currentJobState | runState | ***cuJSe*** |
| currentMachineState | runState | ***cuMSe*** |
| currentPlayerMode | playerControl | ***cuPMe*** |
| currentPlayerModeName | playerControl | ***cPMNe*** |
| currentSecurityMode | securityMode | ***cuSMe*** |
| currentTemperature | temperature | ***curT0*** |
| currentTime | clock | ***curTe*** |
| currentTimeZone | clock | ***cuTZe*** |
| currentValue | smokeSensor | ***crv*** |
| data  | dmEventLog | ***data*** |
| dataModelType | dmDataModelIO | ***daMTe*** |
| dataSourceID | origin | ***daSID*** |
| dataType | origin | ***datTe*** |
| defaultValue | numberValue, textMessage | ***defVe*** |
| defrost | refrigeration | ***defrt*** |
| description | faultDetection, dmDeviceInfo, localization | ***dc*** |
| desiredHumidity | relativeHumidity | ***desHy*** |
| detectedTime | overcurrentSensor, smokeSensor | ***detTe*** |
| diastolicPressure | sphygmomanometer | ***diaPe*** |
| discharging | battery | ***discg*** |
| dischargingCapacity | electricVehicleConnector | ***disCy*** |
| doorState | doorStatus | ***dooSe*** |
| duration | overcurrentSensor, recorder | ***dur*** |
| electricEnergy | battery | ***eleEy*** |
| enabled | dmEventLog | ***enabd*** |
| energy | pulsemeter | ***enery*** |
| estimatedTimeToEnd | timer | ***eTTEd*** |
| extraRinse | clothesWasherJobModeOption | ***extRe*** |
| fat | bioElectricalImpedanceAnalysis | ***fat*** |
| fatFreeMass | bodyCompositionAnalyser | ***faFMs*** |
| filterLifetime | filterInfo | ***filLe*** |
| foamingStrength | foaming | ***foaSh*** |
| frequency | energyConsumption | ***freqy*** |
| friendlyName | dmDeviceInfo | ***friNe*** |
| friendlyLocation | location, localization | ***friLn*** |
| fwVersion | dmDeviceInfo  | ***fweVn*** |
| generationSource | energyGeneration | ***genSe*** |
| geoJSON | location | geoJN |
| grainsRemaining | grinder | ***graRg*** |
| green | colour | ***green*** |
| hash | binaryObject | ***hash*** |
| hba1c | glucometer | ***hba1c*** |
| heading | geoLocation | ***headg*** |
| headingAccuracy | geoLocation | ***heaAy*** |
| heatingLevel | heatingZone | ***heaLl*** |
| height | height | ***heigt*** |
| horizontalAccuracy | geoLocation | ***horAy*** |
| horizontalDirection | airFlow | ***horDn*** |
| hwVersion | dmDeviceInfo  | ***hweVn*** |
| impactDirectionHorizontal | impactSensor | ***imDHl*** |
| impactDirectionVertical | impactSensor | ***imDVl*** |
| impactLevel | impactSensor | ***impLl*** |
| impactStatus | impactSensor | ***impSs*** |
| impedance | bodyCompositionAnalyser | ***impee*** |
| jobModes | airConJobMode, airPurifierJobMode, clothesWasherDryerJobMode, clothesWasherJobMode, cookerHoodJobMode, dehumidifierJobMode, dishWasherJobMode, robotCleanerJobMode steamClosetJobMode,  | ***jobMs*** |
| jobStates | runState | ***jobSs*** |
| kcal | bioElectricalImpedanceAnalysis | ***kcal*** |
| keyNumber | keypad | ***keyNr*** |
| latitude | geoLocation | ***latie*** |
| level | battery | ***lvl*** |
| light | alarmSpeaker | ***light*** |
| liquidLevel | liquidLevel | ***liqLl*** |
| liquidRemaining | liquidRemaining | ***liqRg*** |
| locale | location | ***locae*** |
| lock | lock | ***lock*** |
| loginName | credentials | ***logNe*** |
| longitude | geoLocation | ***longe*** |
| loudness | acousticSensor | ***louds*** |
| lowBattery | battery | ***lowBy*** |
| lqi | signalStrength | ***lqi*** |
| machineStates | runState | ***macSs*** |
| manufacturer | dmDeviceInfo | ***manur*** |
| manufacturerDetailsLink | dmDeviceInfo | ***maDLk*** |
| manufacturingDate | dmDeviceInfo | ***manDe*** |
| material | battery | ***matel*** |
| maxHeatingLevel | heatingZone | ***maHLl*** |
| maxLength | textMessage | ***maxLh*** |
| maxLevel | openLevel | ***maxLl*** |
| maxSpeed | airFlow | ***maxSd*** |
| maxValue | audioVolume, numberValue, ozoneMeter, temperature | ***maxVe*** |
| meanPressure | sphygmomanometer | ***meaPe*** |
| measuringScope | energyConsumption | ***meaSe*** |
| mediaID | mediaSelect | ***medID*** |
| mediaName | mediaSelect | ***medNe*** |
| mediaType | mediaSelect | ***medTe*** |
| memorySize | 3Dprinter | ***memSe*** |
| messageEncoding | textMessage | ***mesEg*** |
| metadata | features | ***metaa*** |
| minLength | textMessage | ***minLh*** |
| minLevel | openLevel | ***minLl*** |
| minSpeed | airFlow | ***minSd*** |
| minValue | numberValue, temperature | ***minVe*** |
| modality | pulsemeter | ***moday*** |
| model | dmDeviceInfo | ***model*** |
| monitoringEnabled | airQualitySensor | ***monEd*** |
| multiFirmware | dmFirmware | ***mulFe*** |
| multiplyingFactors | energyConsumption, energyGeneration | ***mulFs*** |
| muscle | bioElectricalImpedanceAnalysis | ***musce*** |
| muscleMass | bodyCompositionAnalyser | ***musMs*** |
| muteEnabled | audioVolume | ***mutEd*** |
| name | dmPackage, dmSoftware | ***name*** |
| network | 3Dprinter | ***netwk*** |
| numberValue | numberValue | ***numVe*** |
| object | binaryObject | ***objet*** |
| objectType | binaryObject | ***objTe*** |
| openAlarm | doorStatus | ***opeAm*** |
| openDuration | doorStatus | ***opeDn*** |
| openLevel | openLevel | ***opeLl*** |
| originID | origin | ***oriID*** |
| osVersion | dmDeviceInfo | ***oseVn*** |
| overcurrentStatus | overcurrentSensor | ***oveSs*** |
| oxygenSaturation | oximeter | ***oxySn*** |
| ozoneStatus | ozoneMeter | ***ozoSs*** |
| ozoneValueMG | ozoneMeter | ***ozVMG*** |
| ozoneValuePPM | ozoneMeter | ***oVPPM*** |
| password | credentials | ***pwd*** |
| postalAddress | location | ***posAs*** |
| power | energyConsumption | ***power*** |
| powerGenerationData | energyGeneration | ***poGDa*** |
| powerSaveEnabled | powerSave | ***poSEd*** |
| powerState | binarySwitch | ***powSe*** |
| powerStatus | dmAgent | ***powSs*** |
| precision | features | ***precn*** |
| presentationURL | dmDeviceInfo | ***prURL*** |
| previousChannel | televisionChannel | ***preCl*** |
| preWash | clothesWasherJobModeOption | ***preWh*** |
| primaryName | dmFirmware | ***priNe*** |
| primaryState | dmFirmware | ***priSe*** |
| primaryUrl | dmFirmware | ***priUl*** |
| primaryVersion | dmFirmware | ***priVn*** |
| printingState | printQueue | ***priS0*** |
| printSizeX | 3Dprinter | ***priSX*** |
| printSizeY | 3Dprinter | ***priSY*** |
| printSizeZ | 3Dprinter | ***priSZ*** |
| printType | 3Dprinter | ***priTe*** |
| progressPercentage | runState | ***proPe*** |
| pulseRate | pulsemeter | ***pulRe*** |
| pushed | pushButton | ***pushd*** |
| ramAvailable | dmAgent | ***ramAe*** |
| ramTotal | dmAgent | ***ramTl*** |
| rapidCool | refrigeration | ***rapCl*** |
| rapidFreeze | refrigeration | ***rapFe*** |
| recipientID | phoneCall | ***recID*** |
| red | colour | ***red*** |
| referenceTimer | timer | ***refTr*** |
| relativeHumidity | relativeHumidity | ***relHy*** |
| reliability | features | ***reliy*** |
| remoteControlEnabled | remoteControlEnable | ***reCEd*** |
| resistance | bioElectricalImpedanceAnalysis | ***resie*** |
| room | location | ***room*** |
| roundingEnergyConsumption | energyConsumption | ***roECn*** |
| roundingEnergyGeneration | energyGeneration | ***roEGn*** |
| rr | pulsemeter | ***r0*** |
| rssi | signalStrength | ***rssi*** |
| runningTime | timer | ***runTe*** |
| sdp | sessionDescription | ***sdp*** |
| secondaryName | dmFirmware | ***secNe*** |
| secondaryState | dmFirmware | ***secSe*** |
| secondaryUrl | dmFirmware | ***secUl*** |
| secondaryVersion | dmFirmware | ***secVn*** |
| securityModes | securityMode | ***secMs*** |
| sensitivity | motionSensor | ***sensy*** |
| sensorHumidity | airQualitySensor | ***senHy*** |
| sensorOdor | airQualitySensor | ***senOr*** |
| sensorPM1 | airQualitySensor | ***sePM1*** |
| sensorPM10 | airQualitySensor | ***sePM0*** |
| serialNumber | dmDeviceInfo | ***serNr*** |
| sensorPM2 | airQualitySensor | ***sePM2*** |
| significantDigits | energyConsumption, energyGeneration | ***sigDs*** |
| silentTime | motionSensor | ***silTe*** |
| size | binaryObject, features | ***size*** |
| smokeThreshhold | smokeSensor | ***smoTd*** |
| softLeanMass | bodyCompositionAnalyser | ***soLMs*** |
| soilLevel | clothesWasherJobModeOption | ***soiLl*** |
| speed | airFlow | ***speed*** |
| speedFactor | playerControl | ***speFr*** |
| speedWash | clothesWasherJobModeOption | ***speWh*** |
| spinLevelStrength | spinLevel | ***spLSh*** |
| spinSpeed | clothesWasherJobModeOption | ***spiSd*** |
| startPause | operationMode | ***staPe*** |
| state | dmAgent, dmPackage, dmSoftware | ***state*** |
| status | boiler, dmEventLog, electricVehicleConnector, faultDetection, filterInf, mediaSelect | ***sus*** |
| steamTreat | clothesWasherJobModeOption | ***steTt*** |
| step | numberValue | ***step*** |
| stepValue | audioVolume, openLevel, temperature | ***steVe*** |
| storageAvailable | dmAgent | ***stoAe*** |
| storageTotal | dmAgent | ***stoTl*** |
| strength | brewing | ***streh*** |
| subModel | dmDeviceInfo | ***subMl*** |
| supportedHorizontalDirection | airFlow | ***suHDn*** |
| supportedMediaSources | mediaSelect | ***suMSs*** |
| supportedMessageValues | textMessage | ***suMVs*** |
| supportedPlayerModes | playerControl | ***suPMs*** |
| supportedVerticalDirection | airFlow | ***suVDn*** |
| supportURL | dmDeviceInfo | ***suURL*** |
| swVersion | dmDeviceInfo | ***sweVn*** |
| systemTime | dmAgent | ***sysTe*** |
| systolicPressure | sphygmomanometer | ***sysPe*** |
| targetAltitude | geoLocation | ***tarAe*** |
| targetDuration | timer | ***tarDn*** |
| targetLatitude | geoLocation | ***tarLe*** |
| targetLongitude | geoLocation | ***tarL0*** |
| targetTemperature | temperature | ***tarTe*** |
| targetTimeToStart | timer | ***tTTSt*** |
| targetTimeToStop | timer | ***tTTSp*** |
| temperature | temperatureAlarm | ***tempe*** |
| temperatureThreshhold | temperatureAlarm | ***temTd*** |
| textMessage | textMessage | ***texMe*** |
| time | keepWarm | ***time*** |
| token | credentials | ***tk*** |
| tone | alarmSpeaker | ***tone*** |
| turboEnabled | turbo | ***turEd*** |
| type | dmEventLog | ***type*** |
| unit | temperature | ***unit*** |
| uri | printQueue | ***ur0*** |
| url | sessionDescription, dmPackage, dmSoftware | ***ur1*** |
| useGrinder | grinder | ***useGr*** |
| uvStatus | uvSensor | ***uvtSs*** |
| uvValue | uvSensor | ***uvaVe*** |
| version | dmPackage, dmSoftware | ***versn*** |
| verticalAccuracy | geoLocation | ***verAy*** |
| verticalDirection | airFlow | ***verDn*** |
| visceraFat | bioElectricalImpedanceAnalysis | ***visFt*** |
| voc | airQualitySensor | ***voc*** |
| voltage | battery | ***volte*** |
| voltage | energyConsumption | ***volte*** |
| volumePercentage | audioVolume | ***volPe*** |
| washTemp | clothesWasherJobModeOption | ***wasTp*** |
| water | bioElectricalImpedanceAnalysis | ***water*** |
| waterFlowStrength | waterFlow | ***waFSh*** |
| weight | weight | ***weigt*** |

In protocol bindings resource attributes names for properties of sub-devices shall be translated into short names of Table 6.3.3-3.

Table 6.3.3-3: Resource attribute short names (SubDevice properties)

|  |  |  |
| --- | --- | --- |
|  Attribute Name | Occurs in | Short Name |
| propAreaNwkType | dmAreaNwkInfo | ***pANTe*** |

### \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* End of change 2 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*