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| CHANGE REQUEST |
| Meeting ID:\* |  RDM #46 |
| Source:\* | Cyrille Bareau, Orange, cyrille.bareau@orange.comMarianne Mohali, Orange, marianne.mohali@orange.com Przemysław Ratuszek, Orange, przemyslaw.ratuszek@orange.com  |
| Date:\* | 2020-07-16 |
| Reason for Change/s:\* | See the introduction below |
| CR against: Release\* | Release 4 |
| CR against: WI\* | [x]  Active WI-0099[ ]  MNT maintenance / < Work Item number(optional)>Is this a mirror CR? Yes [ ]  No [ ] mirror CR number: (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 v. 4.4.1 |
| Clauses \* | Modified clauses: 5.8.2, 5.8.3, 5.8.4, 6.3.3 |
| Type of change: \* | [ ]  Editorial change[ ]  Bug Fix or Correction[x]  Change to existing feature or functionality[ ]  New feature or functionalityOnly ONE of the above shall be ticked |
| Impacted other TS/TR(s) |  |
| 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 2017 (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.

In case of a correction, and the change apply to previous releases, a separate “mirror CR” should be posted at the same time of 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. Includes any changes to references, definitions, and acronyms in the same deliverable.

Follow the drafting rules.

All pictures must be editable.

Check spelling and grammar to the extent practicable.

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 new clause is proposed to be 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 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

We propose to change the relative weight of the dmAgent and dmDeviceInfo modules: device information should be mandatory for each device, whereas there are devices that may not support reboot/factory reset operation remotely (currently this operation is mandatory in dmAgent).

We also move *description* and *friendlyName* datapoints from dmAgent to dmDeviceInfo, now the better location both from a logical and practical points of view.

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

### 5.8.2 flexNode

This flexContainer specialization is the root for SDT-based Device Management modules.

It is targeted by the *flexNodeLink* attribute of *<flexContainer>* SDT devices (see in 6.2.2 the rules 1-6, 1-7 and 1-8).

Table 5.8.2‑1: Modules of flexNode model

|  |  |  |  |
| --- | --- | --- | --- |
| Module Instance Name | Module Class Name | Multiplicity | Description |
| dmAgent | dmAgent | 0..1 | See clause 5.8.3 |
| dmDeviceInfo | dmDeviceInfo | 1 | See clause 5.8.4 |
| dmDataModelIO | dmDataModelIO | 0..N | See clause 5.8.5 |
| dmFirmware | dmFirmware | 1..N | See clause 5.8.6. |
| dmSoftware | dmSoftware | 0..N | See clause 5.8.7 |
| dmEventLog | dmEventLog | 0..N | See clause 5.8.8 |
| battery | battery | 0..N | See clause 5.3.1.10 |

NOTE: The current list of modules for Device Management is not fixed and can evolve with new optional features.

Table 5.8.2-2: Resource Specific Attributes of [*flexNode*] resource

| Attributes of *[flexNode]* | Multiplicity | RW/RO/WO | Description | *[flexNodeAnnc]* attributes |
| --- | --- | --- | --- | --- |
| *nodeLink* | 0..1 | RW | The resource identifier of a <node> resource, if any, that stores the node specific information of the NoDN on which the interworked service represented by this [flexNode]> resource resides.  |  |
| *hostedAELinks* | 0..1(L) | RO | This attribute allows to find the AEs that are represented by this [*flexNode*] resource, if any. The attribute shall contain a list of resource identifiers of *<AE>* resources representing the ADN-Aes that are represented by the current [*flexNode*] resource. | OA |
| *hostedServiceLinks* | 0..1(L) | RO | This attribute allows to find SDT device <*flexContainer>* resources that havebeen created to represent services hosted on a device (ADN or NoDN proxied by an IPE), the device being represented by this [*flexNode*] resource. If the device hosts a set of services represented by SDT device <*flexContainer>s,* then the attribute shall contain the list of resource identifiers of these <*flexContainer>* resources. | OA |

If the <flexContainer>(s) that are listed in the *hostedServiceLinks* attribute have a *nodeLink* attribute that points to a <node>, then :

- if there are more than one such <flexContainer>, they shall all have the same *nodeLink* attribute value, and

- this [flexNode] resource shall have a *nodeLink* attribute with the same value.

### \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* End of Change 1 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

### \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Start of Change 2 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

### 5.8.3 dmAgent

This ModuleClass is the entry point module of [*flexNode*]; it provides capabilities to control and monitor the Device Management of the device.

Table 5.8.3-1 Actions of dmAgent ModuleClass

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Return Type | Name | Arguments | Optional | Description |
| none  | reboot | rebootType: hd:enumRebootType | false | Execute a reboot or a factory reset |

The DataPoints of dmAgent Module Class are as follows:

‘state’ represents the state of the agent for DM purposes (ready, sleeping, etc.).

some optional device properties which can be used for Device Management purpose. The dmAgent can be seen as a ‘dashboard’ that gathers common information such as battery level, memory or CPU usage…

Table 5.8.3-2 DataPoints of dmAgent ModuleClass

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Type | R/W | Optional | Unit | Description |
| state | hd:enumDmAgentState | R | false |  | The current state of the agent (ready, error, etc.) |
| storageAvailable | xs:integer | R | true | KB | The size of available storage memory. |
| storageTotal | xs:integer | R | true | KB | The size of total storage memory. |
| ramAvailable | xs:integer | R | true | KB | The size of available RAM memory. |
| ramTotal | xs:integer | R | true | KB | Total size of the RAM memory. |
| powerStatus | hd:enumPowerState | R | true |  | The status of the electrical power. |
| cpuUsage | xs:integer | R | true | % | Current CPU usage in percent. |
| systemTime | m2m:timestamp | RW | true |  | Reference time for the device.  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

### \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* End of Change 2 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

### \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Start of Change 3 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

### 5.8.4 dmDeviceInfo

This ModuleClass is used to share static information regarding the device.

Table 5.8.4-1 DataPoints of dmDeviceInfo ModuleClass

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Type | R/W | Optional | Unit | Description |
| serialNumber | xs:string | R |  true |  | Unique device label assigned by the manufacturer. The value of the datapoint typically exposes the device’s serial number that is specific to a manufacturer.  |
| manufacturer | xs:string | R | true |  | The name/identifier of the device manufacturer.  |
| manufacturerDetailsLink | xs:string | RW | true |  | URL to manufacturer’s website.  |
| manufacturingDate | m2m:timestamp | R | true |  | Manufacturing date of device.  |
| model | xs:string | R | true |  | The name/identifier of the device model assigned by the manufacturer.  |
| subModel | xs:string | R | true |  | Device sub-model name.  |
| hwVersion | xs:string | R | true |  | The hardware version / revision of the device.  |
| osVersion  | xs:string | R | true |  | Version of the operating system (defined by manufacturer).  |
| country | m2m:countryCode | R | true |  | Country code of the device. It could be manufacturing country, deployment country or procurement country.  |
| supportURL | xs:anyURI | RW | true |  | URL that points to product support information of the device.  |
| presentationURL | xs:anyURI | RW | true |  | To quote UpnP: “the control point can retrieve a page from this URL, load the page into a web browser, and depending on the capabilities of the page, allow a user to control the device and/or view device status. The degree to which each of these can be accomplished depends on the specific capabilities of the presentation page and device”.  |
| friendlyName | xs:string | RW | true |  | The device friendly name.  |
| description | xs:string | RW | true |  | A human readable description of the device (e.g. Alice’s cell phone, kitchen’s fridge…) |

NOTE: although all datapoints are optional, depending on the underlying DM technology, some datapoints should be filled, for instance serialNumber, manufacturer and model when this information is available.

### \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* End of Change 3 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

### \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Start of Change 4 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

### 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 |
| chargingCapacity | electricVehicleConnector | ***chaCy*** |
| dischargingCapacity | electricVehicleConnector | ***disCy*** |
| electricEnergy | battery | ***eleEy*** |
| material | battery | ***matel*** |
| voltage | battery | ***volte*** |

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*** |
| defaultValue | numberValue, textMessage | ***defVe*** |
| defrost | refrigeration | ***defrt*** |
| description | faultDetection, dmDeviceInfo | ***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*** |
| fwVersion | dmDeviceInfo  | ***fweVn*** |
| generationSource | energyGeneration | ***genSe*** |
| 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*** |
| 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*** |
| 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 | dmSoftware | ***name*** |
| network | 3Dprinter | ***netwk*** |
| numberValue | numberValue | ***numVe*** |
| object | binaryObject | ***objet*** |
| objectType | binaryObject | ***objTe*** |
| openAlarm | doorStatus | ***opeAm*** |
| openDuration | doorStatus | ***opeDn*** |
| openLevel | openLevel | ***opeLl*** |
| osVersion | dmDeviceInfo | ***oseVn*** |
| overcurrentStatus | overcurrentSensor | ***oveSs*** |
| oxygenSaturation | oximeter | ***oxySn*** |
| ozoneStatus | ozoneMeter | ***ozoSs*** |
| ozoneValueMG | ozoneMeter | ***ozVMG*** |
| ozoneValuePPM | ozoneMeter | ***oVPPM*** |
| password | credentials | ***pwd*** |
| power | energyConsumption | ***power*** |
| powerGenerationData | energyGeneration | ***poGDa*** |
| powerSaveEnabled | powerSave | ***poSEd*** |
| powerState | binarySwitch | ***powSe*** |
| powerStatus | dmAgent | ***powSs*** |
| presentationURL | dmDeviceInfo | ***prURL*** |
| previousChannel | televisionChannel | ***preCl*** |
| preWash | clothesWasherJobModeOption | ***preWh*** |
| primaryName | dmFirmware | ***priNe*** |
| primaryState | dmFirmware | ***priS0*** |
| primaryUrl | dmFirmware | ***priUl*** |
| primaryVersion | dmFirmware | ***priVn*** |
| printingState | printQueue | ***priSe*** |
| 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*** |
| remoteControlEnabled | remoteControlEnable | ***reCEd*** |
| resistance | bioElectricalImpedanceAnalysis | ***resie*** |
| 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 | ***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, 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, dmSoftware | ***ur1*** |
| useGrinder | grinder | ***useGr*** |
| uvStatus | uvSensor | ***uvtSs*** |
| uvValue | uvSensor | ***uvaVe*** |
| version | 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*** |

### \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* End of Change 4 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*