

## BMW CARDATA TELEMATICS DATA CATALOGUE

BMW CarData is based on a series of relevant telematics data that vehicles regularly send to BMW as part of the BMW ConnectedDrive or MINI Connected services and that are stored there. This includes measured values such as the mileage or check control messages from a vehicle.

This BMW CarData telematics data catalogue explains all the vehicle data relevant for the use of BMW CarData that are available in principle, divided into the categories "vehicle status", "usage-based data" and "events-related data" for easy reference.

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The drive mode used (combustion engine, hybrid or electric drive) influence the scope of telematics data that can be transferred.

### Data on the status of a vehicle:

Technical descriptor	CarData Element	Description	Data transfer	ICE*	PHEV*	BEV*	Typical value range
bmwcardata_ airTemperature	Environmental temperature	This value indicates the environmental temperature in degrees centigrade or Fahrenheit at the time of data collection, e.g.16.5°C or 62°F. The value always corresponds to the one also displayed in the vehicle.	Regular <sup>1</sup>	x	x	x	-30 °C to 100 °C or -22 °F to 212 °F
bmwcardata_ altitude	Vehicle altitude	This value indicates the height of the vehicle above sea-level at the time of data collection. The value range reaches from -100m to 6000m or from -328ft to 19685ft.	Regular <sup>2,3,4,5</sup>	x	x	x	-100 m to 6000 m or -328 ft to 19685 ft or -NA-

Technical descriptor	CarData Element	Description	Data transfer	ICE*	PHEV*	BEV*	Typical value range
bmwcardata_ batteryVoltage	Battery voltage	The value indicates the current battery voltage in the vehicle's electrical system. This value is always given in voltage, e.g. 14.4 V.	Regular <sup>1</sup>	x	x	x	5 V to 20 V
bmwcardata_ breakFluidDate	The date when the brake fluid needs to be replaced	This value indicates when the brake fluid should be changed. The value is shown as a date and time respectively, for example 31.12.2017 23:00:00 UTC or 12/31/2017 23:00:00 UTC.	Regular <sup>1</sup>	x	x	x	dd.mm.yyyy hh:mm:ss UTC or mm/dd/yyyy hh:mm:ss UTC
bmwcardata_ cbsCount	Number of CBS reports	The value specifies the maximum number of service notifications transmitted from the vehicle to BMW via telematics. The actual number of service notifications transmitted (see separate CBS key) varies depending on how the vehicle is used and whether relevant thresholds have been reached. Note: Not all Condition Based Service messages which occur in the vehicle are also transferred.	Regular <sup>1</sup>	x	x	x	0 to 60 Messages

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bmwcardata_chargingAcAmpere	AC charging current	This value indicates the maximum charging current for the most recent charging process in ampere (A) (only when charging with alternating current). Values between 0 and 25 are possible. Both the vehicle and charging station could be individually charged with a certain maximum charging current. The value displayed here is the greater of these two figures.	Regular <sup>2</sup>		x	x	0 A to 25 A or -NA-
bmwcardata_chargingAcVoltage	AC charging voltage	This value indicates the charging voltage for the most recent charging process (only when charging with alternating current). This value is usually in the region of 230 V. However, charging voltages may range from 0 to 300.	Regular <sup>2</sup>		x	x	0 V to 300 V or -NA-
bmwcardata_chargingMethod	Charging method and plug type	This value describes whether the vehicle was charged with direct current (DC) or alternating current (AC) and which charging plug was used for this purpose. The indicated technical value AC_TYPE1PLUG, for example, indicates that the high-voltage battery was charged in alternating current mode, making use of a charging plug of Type 1.	Regular <sup>2</sup>		x	x	AC_TYPE1PLUG, AC_TYPE2PLUG, NOCHARGING

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bmwcardata_chargingProfile	Charging profile	The charging profile provides information about the charging mode most recently selected for your vehicle.	Regular <sup>2,6</sup>		x	x	The XML structure is appended at the end of the table (1).
bmwcardata_chargingStatus	Charging status	This value indicates the current charging status of the vehicle at the time of data collection. For example, NOCHARGING means that the vehicle's high-voltage battery is currently not being charged. INITIALIZATION means that the charging process is just being prepared, while CHARGINGACTIVE means that the battery is just being charged. Other possible values are: CHARGINGPAUSED (charging paused), CHARGINGENDED (charging ended) and CHARGINGERROR (charging error).	Regular <sup>2</sup>		x	x	CHARGINGENDED, CHARGINGACTIVE, NOCHARGING
bmwcardata_ChargingWindowSelection	Charging window selection	Indicates a pre-defined time window in which the high-voltage battery of the vehicle should be charged. The value could be either NOTCHOSEN or CHOSEN.	Regular <sup>2</sup>		x	x	CHOSEN, NOTCHOSEN, -NA-

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bmwcardata_ checkControlM essages	Check control messages	Check control monitors functions in the vehicle and notifies the user when there is a fault in the monitored system. A check control message is displayed as a combination of indicator lights or warning lights and text messages on the dashboard, and on the head-up display, if applicable.	Regular <sup>1,2</sup>	x	x	x	The Check Control example is appended at the end of the table (2).
bmwcardata_ codeCBSHUAU	Time threshold for main and exhaust gas inspection	The threshold indicates how many months before the main and exhaust gas inspection is due the service advisor will be notified.	Regular <sup>1</sup>	x	x	x	0 to 10 months
bmwcardata_ conditionBased Services	Condition Based Service	Sensors and special algorithms take into account the operating conditions of the vehicle. CBS uses this to determine the required service. The system hereby adapts the scope of the service to the individual usage profile.	Regular <sup>1,2</sup>	x	x	x	The Condition Based Service example is appended at the end of the table (3).

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bmwcardata_ convertibleRoofState	Status of convertible roof	Indicates the current status of the convertible roof at the time of data collection, i.e. whether it was closed (CLOSED), open (OPEN) or – in an emergency – locked (EMERGENCYLOCKED). The following additional status values are possible: CLOSEDSECURED = convertible roof closed, vehicle secured OPENSECURED = convertible roof open, vehicle secured HARDTOPMOUNTED = hard top mounted and closed (removable hard top) INTERMEDIATEPOSITION = convertible roof in intermediate position LOADINGPOSITION = roof is in a position that allows for easy loading of the boot LOADINGPOSITIONIMMEDIATE = roof is in a position that allows for easy loading of the boot	Regular <sup>2</sup>	x	x	x	CLOSEDSECURED, OPENSECURED
bmwcardata_ coolantTemperature	Coolant temperature	The value indicates the current coolant temperature in degrees centigrade or Fahrenheit at the time of data collection.	Regular <sup>1</sup>	x	x		0 °C to 150 °C or 32 °F to 302 °F

Technical descriptor	CarData Element	Description	Data transfer	ICE*	PHEV*	BEV*	Typical value range
bmwcardata_displayUnit	Display unit of instrument panel in vehicle	This value indicates the units (kilometres or miles) in which distances are indicated on the vehicle instrument panel.	Regular <sup>1</sup>	x	x	x	km, miles
bmwcardata_doorDriverFront	Status of front left door	This value indicates whether the front left door was closed at the time of data collection (CLOSED) or open (OPEN).	Regular <sup>2</sup>	x	x	x	OPEN, CLOSED, INVALID, UNKNOWN
bmwcardata_doorDriverRear	Status of rear left door	This value indicates whether the rear left door was closed at the time of data collection (CLOSED) or open (OPEN).	Regular <sup>2</sup>	x	x	x	OPEN, CLOSED, INVALID, UNKNOWN
bmwcardata_doorLockState	Status of doors	This indicates whether the vehicle's doors were locked (LOCKED) or unlocked (UNLOCKED) at the time of data collection. Other possible values are: SELECTIVELOCKED = vehicle locked with the exception of the left front door (state after a remote service door unlock was first performed) SECURED = vehicle has been secured = all doors locked and alarm system activated	Regular <sup>2</sup>	x	x	x	SECURED, UNLOCKED, SELECTIVE-LOCKED, LOCKED, INVALID, UNKNOWN
bmwcardata_doorPassengerFront	Status of front right door	This value indicates whether the front right door was closed at the time of data collection (CLOSED) or open (OPEN).	Regular <sup>2</sup>	x	x	x	OPEN, CLOSED, INVALID, UNKNOWN

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bmwcardata_ doorPassenger Rear	Status of rear right door	This value indicates whether the rear right door was closed at the time of data collection (CLOSED) or open (OPEN).	Regular <sup>2</sup>	x	x	x	OPEN, CLOSED, INVALID, UNKNOWN
bmwcardata_ gpsLat	Vehicle position – degree of latitude	This value indicates the degree of latitude at which the vehicle was at the time of data collection. The degree of latitude could range from 0 (at the equator) to a maximum of +90 in the northern hemisphere or respectively -90 in the southern hemisphere. The GPS position is transferred independently of whether the GPS positioning has been activated or deactivated in your vehicle via the settings menu.	Regular <sup>2,3,4,5</sup>	x	x	x	-90,0000 to + 90,0000
bmwcardata_ gpsLng	Vehicle position – degree of longitude	This value indicates the degree of longitude at which the vehicle was at the time of data collection. The degree of longitude could range from 0 (at the Greenwich meridian / Great Britain) to a maximum of +180 east or respectively -180 west of the meridian. The GPS position is transferred independently of whether the GPS positioning has been activated or deactivated in your vehicle via the settings menu.	Regular <sup>2,3,4,5</sup>	x	x	x	-180,0000 to + 180,0000

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Technical descriptor	CarData Element	Description	Data transfer	ICE*	PHEV*	BEV*	Typical value range
bmwcardata_heading	Orientation of the vehicle	This value indicates the orientation of the vehicle in degrees at the time of data collection. If the value is 180, the vehicle is pointing directly south. If the value is 0, the vehicle is pointing directly north. The values thus range from 0 to 359. The determined orientation of the vehicle may differ from its actual orientation due to inaccuracies in the GPS positioning.	Regular <sup>2,3,4,5</sup>	x	x	x	0 ° to 359 °
bmwcardata_hoodState	Status of hood	This value indicates whether the vehicle's hood was closed at the time of data collection (CLOSED) or open (OPEN).	Regular <sup>2</sup>	x	x	x	CLOSED, OPEN, INVALID
bmwcardata_isPlugConnected	Status of charging plug	This value indicates whether the vehicle was connected to a charging plug at the time of data collection (CONNECTED) or not (DISCONNECTED).	Regular <sup>2</sup>		x	x	CONNECTED, DISCONNECTED, INVALID, -NA-
bmwcardata_kombiCurrentRemainingRangeFuel	Tank content range	The value indicates the current fuel level at the time of data collection as the range in kilometres or miles. If, for example, the display shows 533km or 331mi, the vehicle can cover approximately 533 kilometres or 331 miles with the fuel still available.	Regularly <sup>2</sup>	x	x		0 km to 1000 km or 0 mi to 621 mi

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bmwcardata_ legalInspection Date	Date of next inspection	This value indicates when the next inspection is due. A date will be shown respectively, for example 30.09.2018 23:00 UTC or 09/30/2018 23:00 UTC.	Regular <sup>1</sup>	x	x	x	dd.mm.yyyy hh:mm UTC or mm/dd/yyyy hh:mm UTC
bmwcardata_ memoryStatus FreePoiDataSets	Number of free POI spaces in navigation system	This value indicates how many POIs (points of interest) are still open in the navigation system.	Usage-dependent <sup>3</sup>	x	x	x	25
bmwcardata_ memoryStatus MaxPoiDataSets	Maximum number of POIs stored in the navigation system	This value indicates how many POIs (points of interest) can be stored in the navigation system.	Usage-dependent <sup>3</sup>	x	x	x	25
bmwcardata_ mileage	Mileage	The value indicates the current mileage at the time of data collection.	Regular <sup>1,2,4,5</sup>	x	x	x	0 km to 500000 km or 0 mi to 310686 mi
bmwcardata_ navilInformation ArrivalTime	Time to the navigation destination	This value indicates the arrival time at the navigation destination and is given in hours and minutes.	Usage-dependent <sup>3,5</sup>	x	x	x	hh:mm
bmwcardata_ navilInformation Destination	Navigation destination	This value indicates the coordinates of the active navigation destination at the time of data collection in milliarseconds.	Usage-dependent <sup>3,5</sup>	x	x	x	Lat : X, Lon : X

Technical descriptor	CarData Element	Description	Data transfer	ICE*	PHEV*	BEV*	Typical value range
bmwcardata_ naviInformation DistanceToDes tination	Distance to navigation destination	This value indicates the distance to the active navigation destination in kilometres or miles at the time of data collection. The values range from 0km to 100000km or from 0mi to 62137mi.	Usage- dependent <sup>3,5</sup>	x	x	x	0 km to 100000 km or 0 mi to 62137 mi
bmwcardata_ naviInformation RemainingRan ge	Remaining range	This value indicates the remaining range of fuel in kilometres or miles at the time of data collection.	Usage- dependent <sup>3,5</sup>	x	x		0 km to 100000 km or 0 mi to 62137 mi
bmwcardata_ nextServiceDat e	Date of next service	This value specifies when the next service is due.	Regular <sup>1</sup>	x	x	x	dd.mm.yyyy hh:mm UTC or mm/dd/yyyy hh:mm UTC
bmwcardata_ nextServiceDist ance	Distance to the next service	This value indicates how many kilometres or miles remain before the next service at the time of recording the data.	Regular <sup>1</sup>	x	x	x	0 km to 100,000 km or 0 mi to 62,137 mi
bmwcardata_ RCPChargingM ode	Charging profile (remote)	This value provides information about the charging profile of the vehicle that was configured via the app (remote).	Usage- dependent <sup>4</sup>		x	x	INVALID, DIRECT_ CHG_ONCE_ NOT_ACTIVE

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bmwcardata_ remainingFuel	Tank content	The value indicates the current fuel tank level in litres or gallons at the time of data collection. Depending on the position of the tank float, the specified value may differ by up to 6 litres or 1.6 gallons.	Regular <sup>1,2</sup>	x	x		0 L to 100 L or 0 gal to 26.5 gal
bmwcardata_ rsExecutionAck ExecutionResult	Remote service result	This value informs the customer whether the most recently selected remote service at the time of data collection had the desired effect or not. Thus the value "true" confirms that a command from the My Remote App has arrived in the system and for example that the air-conditioning has been set to cool the interior of the vehicle before departure. The value "false", on the other hand, indicates that the command was not executed.	Usage-dependent <sup>4</sup>	x	x	x	true, false

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<p><b>Company</b> Bayerische Motoren Werke Aktiengesellschaft</p> <p><b>Postal address</b> BMW AG D-80788 Munich, Germany</p> <p><b>Office address</b> Petuelring 130</p> <p><b>Office address</b> Forschungs- und Innovationszentrum (FIZ) Knorrstraße 147</p> <p><b>Telephone</b> Exchange +49 89 382-0</p> <p><b>Fax</b> +49 89 382-25858</p> <p><b>Internet</b> www.bmw.com</p> <p><b>Bank account</b> BMW Bank IBAN DE02 7022 0300 5100 9409 40 BIC BMWBDEM3333</p> <p><b>Chairman of the Supervisory Board</b> Norbert Reithofer</p> <p><b>Board</b> Harald Krüger, Chairman Milagros Caiña Carreiro-Andree Klaus Fröhlich Pieter Nota Nicolas Peter Peter Schwarzenbauer Andreas Wendt Oliver Zipse</p> <p><b>Registered Office and Court of Registry</b> Munich Com. Reg. No. 42243</p>	<p>bmwcardata_ rsExecutionAck ServiceExecute d</p> <p>Remote service type</p>	<p>This value indicates the most recent remote service type selected at the time of data collection. For example, the following services are possible: UNLOCK_DOOR, LOCK_DOOR = opening/closing doors CLIMATE_NOW, CLIMATE_TIMER = temperature control of air-conditioning system POSITION_ON = allows the current vehicle position to be displayed on a smartphone REMOTE_CHARGING_PROFILE = provides information about the respective current charging status of the vehicle battery to the smartphone REMOTE360 = the user can use Remote View 3D to view his vehicle remotely. Apart from that, the location of the vehicle can be shown using the horn (BLOW_HORN) or by flashing the lights (FLASH_LIGHT).</p>	<p>Usage-dependent<sup>4</sup></p>	<p>x</p>	<p>x</p>	<p>x</p>	<p>CLIMATE_NOW, POSITION_ON, LOCK_DOOR, BLOW_HORN, UNLOCK_DOOR, FLASH_LIGHT, CLIMATE_TIMER, REMOTE_CHARGING_PROFILE, REMOTE360</p>
<p>bmwcardata_ socHvHeader</p>	<p>Charging status of high-voltage battery</p>	<p>This value indicates the current charging status of the vehicle at the time of data collection.</p>	<p>Regular<sup>2</sup></p>		<p>x</p>	<p>x</p>	<p>0 % to 100 %</p>

Technical descriptor	CarData Element	Description	Data transfer	ICE*	PHEV*	BEV*	Typical value range
bmwcardata_statisticsMileage	Mileage data statistics	The value indicates the current mileage at the time of data collection. This value is redundant and is only determined when the regular mileage is not available on the speedometer. The values range from 0km to 100000km or from 0mi to 62137mi. Note: It is recommended to use only the regular mileage instead of this value.	Usage-dependent <sup>5</sup>	x	x	x	0 km to 100000 km or 0 mi to 62137 mi
bmwcardata_statusTeleservice	Availability of teleservices	This value indicates whether teleservices are available for this vehicle.	Regular <sup>1</sup>	x	x	x	PENDING, IDLE, SUCCESSFUL, ERROR
bmwcardata_sunroofPosition	Position of sunroof	The value indicates the current position of the sunroof (if the vehicle has one) in centimetres or inches at the time of data collection. The values range from 0cm (closed) to 200cm (open) or from 0in (closed) to 79in (open).	Regular <sup>2</sup>	x	x	x	0 cm to 200 cm or 0 in to 79 in
bmwcardata_sunroofState	Status of sunroof	This value indicates whether the sunroof (if the vehicle has one) was open (OPEN), half-open (INTERMEDIATE) or closed (CLOSED) at the time of data collection.	Regular <sup>2</sup>	x	x	x	CLOSED, INTERMEDIATE, OPEN, INVALID

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bmwcardata_sunroofTiltState	Tilting status of sunroof	This value indicates whether the sunroof (if the vehicle has one) was tilted (OPEN), half-tilted (INTERMEDIATE) or closed (CLOSED) at the time of data collection.	Regular <sup>2</sup>	x	x	x	CLOSED, INTERMEDIATE, OPEN, INVALID
bmwcardata_trunkState	Status of boot lid	This value indicates whether the boot lid was open (OPEN), half-open (INTERMEDIATE) or closed (CLOSED) at the time of data collection.	Regular <sup>2</sup>	x	x	x	CLOSED, OPEN, INVALID

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Technical descriptor	CarData Element	Description	Data transfer	ICE*	PHEV*	BEV*	Typical value range	
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	bmwcardata_ vehicleStatusEngineOnStatus	Status of engine (on/off)	This value indicates whether the engine was on or off at the time of data collection or whether the status is unknown.	Usage-dependent <sup>4,5</sup>	x	x	x	ASN_isFalse, ASN_isTrue, ASN_isUnknown

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Technical descriptor	CarData Element	Description	Data transfer	ICE*	PHEV*	BEV*	Typical value range
bmwcardata_vehicleStatusIgnitionStatus	State of ignition	This value indicates whether the ignition was on or off at the time of data collection or whether the status is unknown.	Usage-dependent <sup>4,5</sup>	x	x	x	ASN_isFalse, ASN_isTrue, ASN_isUnknown
bmwcardata_vehicleStatusLightstatus	Status of lights	This value indicates whether the vehicle light was on or off at the time of data collection or whether the status is unknown.	Usage-dependent <sup>4,5</sup>	x	x	x	ASN_isFalse, ASN_isTrue, ASN_isUnknown
bmwcardata_vehicleStatusLowVoltageBattery	Low-voltage battery	This value indicates the current charging status of the low-voltage battery in percentage at the time of data collection.	Usage-dependent <sup>4,5</sup>	x	x	x	chargingCondition: 0 % to 100 %  plausibility: ASN_plausible, ASN_notPlausible
bmwcardata_vehicleStatusMobilephoneconnected	Mobile phone connection	This value indicates whether a mobile phone was linked to the vehicle at the time of data collection or whether the connection status is unknown.	Usage-dependent <sup>4,5</sup>	x	x	x	ASN_isFalse, ASN_isTrue, ASN_isUnknown
bmwcardata_vehicleStatusMovingFlag	Motion status of the vehicle	This value indicates whether the vehicle was in motion at the time of data collection.	Usage-dependent <sup>4,5</sup>	x	x	x	ASN_isFalse, ASN_isTrue, ASN_isUnknown
bmwcardata_vehicleStatusVehicleDateTime	Date and time in vehicle	These values indicate the time shown in the vehicle at the time of recording the data.	Usage-dependent <sup>4,5</sup>	x	x	x	00:00 to 23:59 or 12:00 am to 11:59 pm

Technical descriptor	CarData Element	Description	Data transfer	ICE*	PHEV*	BEV*	Typical value range
bmwcardata_ windowDriverFront	Status of front left window	This value indicates whether the front left window was open (OPEN), half-open (INTERMEDIATE) or closed (CLOSED) at the time of data collection.	Regular <sup>2</sup>	x	x	x	CLOSED, INTERMEDIATE, OPEN, INVALID
bmwcardata_ windowDriverRear	Status of rear left window	This value indicates whether the rear left window was open (OPEN), half-open (INTERMEDIATE) or closed (CLOSED) at the time of data collection.	Regular <sup>2</sup>	x	x	x	CLOSED, INTERMEDIATE, OPEN, INVALID
bmwcardata_ windowPassengerFront	Status of front right window	This value indicates whether the front right window was open (OPEN), half-open (INTERMEDIATE) or closed (CLOSED) at the time of data collection.	Regular <sup>2</sup>	x	x	x	CLOSED, INTERMEDIATE, OPEN, INVALID
bmwcardata_ windowPassengerRear	Status of rear right window	This value indicates whether the rear right window was open (OPEN), half-open (INTERMEDIATE) or closed (CLOSED) at the time of data collection.	Regular <sup>2</sup>	x	x	x	CLOSED, INTERMEDIATE, OPEN, INVALID
bmwcardata_ yellowServiceDistance	Distance threshold for service information	The static value indicated is stored in the vehicle and indicates the first time that the customer receives a mileage-related message to inform him that the vehicle will soon be due for a service. It is given in kilometres or miles (for example 2000km or 1243mi).	Regular <sup>1</sup>	x	x	x	2000 km or 1243 mi

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Technical descriptor	CarData Element	Description	Data transfer	ICE*	PHEV*	BEV*	Typical value range
bmwcardata_ yellowServiceTime	Time threshold for service information	The static value indicated is stored in the vehicle and indicates the first time that the customer receives a message to inform them that the vehicle will soon be due for a service. This is given in weeks (for example 4).	Regular <sup>1</sup>	x	x	x	4 weeks

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**Usage-based vehicle data**

Technical descriptor	CarData Element	Description	Data transfer	ICE*	PHEV*	BEV*	Typical value range
bmwcardata_ averageDistance	Average distance per week	This indicates the average volume of the distance travelled in kilometres or miles per week.	Regular <sup>1</sup>	x	x	x	1 km to 3000 km or 1 mi to 1864 mi
bmwcardata_ averageDistanceLongterm	Average distance per week (long-life)	This value indicates the weekly average travelled in kilometres or miles over a period of 2 months.	Regular <sup>1</sup>	x	x	x	1 km to 3000 km or 1 mi to 1864 mi
bmwcardata_ SegmentLastTripAccelerationStars	Driving style evaluation - 'acceleration behaviour'	This value indicates the number of stars which the driving style analysis has given to the acceleration behaviour of the driver at the time of data collection. The system allocates 0 to 5 stars.	Regular <sup>2</sup>		x	x	0 to 5 stars

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Technical descriptor	CarData Element	Description	Data transfer	ICE*	PHEV*	BEV*	Typical value range
bmwcardata_ SegmentLastTr ipBrakingStars	Driving style evaluation - 'pro-active driving'	This value indicates the number of stars which the driving style analysis has given to the 'pro-active driving' behaviour of the driver at the time of data collection. The system allocates 0 to 5 stars.	Regular <sup>2</sup>		x	x	0 to 5 stars
bmwcardata_ SegmentLastTr ipECOPlusTimeOfActivation	Activation period for ECO PLUS mode during most recent drive	Indicates the length of time for which ECO PLUS mode was activated during the most recent drive when data were recorded. The values range from 0 to 100.	Regular <sup>2</sup>		x	x	0 % to 100 %
bmwcardata_ SegmentLastTr ipECOTimeOfActivation	Activation period for ECO mode during most recent drive	Indicates the length of time for which ECO mode was activated during the most recent drive when data were recorded. The values range from 0 to 100.	Regular <sup>2</sup>		x	x	0 % to 100 %
bmwcardata_ SegmentLastTr ipElectricEnergyConsumption Comfort	Electrical energy consumption in COMFORT mode during the most recent drive	This indicates the electrical energy consumption (kWh) in COMFORT mode, measured at the time of data collection.	Regular <sup>2</sup>		x	x	0 kWh to 10 kWh
bmwcardata_ SegmentLastTr ipElectricEnergyConsumption Overall	Electrical energy consumption during last drive	The value indicates the total energy consumption in kilowatt hours (kWh) at the time of data collection.	Regular <sup>2</sup>		x	x	0 kWh to 10 kWh

Technical descriptor	CarData Element	Description	Data transfer	ICE*	PHEV*	BEV*	Typical value range
bmwcardata_SegmentLastTripFuelConsumption	Fuel consumption during most recent drive	This value indicates the fuel consumption in litres or gallons during the last drive logged.	Regular <sup>2</sup>		x		0 L to 100 L or 0 gal to 26.5 gal
bmwcardata_SegmentLastTripMileageSegmentEnd	Mileage after last drive	This value indicates the total mileage after the last drive logged.	Regular <sup>2</sup>		x	x	0 km to 999999 km or 0 mi to 621371 mi
bmwcardata_SegmentLastTripRatioElectricDrivenDistance	Electrically driven distance during the most recent drive	This value indicates the distance covered with electrical energy during the most recent drive in percentage.	Regular <sup>2</sup>		x	x	0 % to 100 %
bmwcardata_SegmentLastTripRecuperationOverall	Energy recuperated during the last drive	This value indicates the average electrical energy in kilowatt hours (kWh/100km or kWh/62mi) recuperated during the last logged drive per 100 kilometres or 62 miles. The values range from 0 to 254.	Regular <sup>2</sup>		x	x	0 kWh / 100 km to 170 kWh / 100 km or 0 kWh / 62 mi to 170 kWh / 62 mi
bmwcardata_SegmentLastTripSOCSegmentEnd	Charging status of battery	This value indicates the charging status of the high-voltage battery at the end of the most recently logged drive (in percentage).	Regular <sup>2</sup>		x	x	0 % to 100 %

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Technical descriptor	CarData Element	Description	Data transfer	ICE*	PHEV*	BEV*	Typical value range
bmwcardata_ SegmentLastTri pTimeSegment End	Time of most recent drive	The time stamp contains the date and local time of the most recently logged and transmitted drive, for example 15/05/2017 15:51:00 or 05/15/2017 15:51:00.	Regular <sup>2</sup>		x	x	dd.mm.yyyy hh:mm:ss UTC or mm/dd/yyyy hh:mm:ss UTC

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**Data on defined events**

Technical descriptor	CarData Element	Description	Data transfer	ICE*	PHEV*	BEV*	Typical value range
bmwcardata_ telematic_even t_ automatic_serv ice_call	Automatic Teleservice Call	The date shown indicates whether the vehicle has triggered an automatic service call (ASC) and time of event.	Usage- dependent <sup>1</sup>	x	x	x	dd.mm.yyyy hh:mm UTC or mm/dd/yyyy hh:mm UTC
bmwcardata_ telematic_even t_ battery_guard_ call	Teleservice Battery Guard	The date shown indicates whether the vehicle triggered a battery guard call and time of event.	Usage- dependent <sup>1</sup>	x	x	x	dd.mm.yyyy hh:mm UTC or mm/dd/yyyy hh:mm UTC

Technical descriptor	CarData Element	Description	Data transfer	ICE*	PHEV*	BEV*	Typical value range
bmwcardata_telematic_event_position_update	Position Update	The date shown indicates whether the vehicle has sent new position data and time of event.	Usage-dependent <sup>1,2</sup>	x	x	x	dd.mm.yyyy hh:mm UTC or mm/dd/yyyy hh:mm UTC

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### Data transfer:

The data mentioned above can be transferred from the vehicle to BMW Group by the BMW ConnectedDrive or MINI Connected services listed in the following:

- 1 Teleservices, breakdown assistance, Remote Software Upgrade
- 2 Vehicle networked with portals and apps
- 3 Concierge Call
- 4 Remote Services
- 5 Intelligent emergency call
- 6 BMW online

### (1) bmwcardata\_chargingProfile example:

```
<wt> <departureTimes> <departureTime1Active> <deactivate/> </departureTime1Active> <departureTime1> <hours>15</hours> <minutes>30</minutes> </departureTime1> <departureTime2Active> <deactivate/> </departureTime2Active> <departureTime2> <hours>8</hours> <minutes>0</minutes> </departureTime2> <departureTime3Active> <deactivate/> </departureTime3Active> <departureTime3> <hours>8</hours> <minutes>0</minutes> </departureTime3> <departureTime4Active> <deactivate/> </departureTime4Active> </departureTimes> <climatisationOn> <isTrue/> </climatisationOn> <reductionOfChargeCurrent> <start> <hours>0</hours> <minutes>0</minutes> </start> <end> <hours>0</hours> <minutes>0</minutes> </end> </reductionOfChargeCurrent> <immediateCharging> <isTrue/> </immediateCharging></wt>
```

## (2) bmwcardata\_checkControl-Messages example:

```
{ "name": "bmwcardata_checkControlMessages", "timestamp": "Thu Aug 31 14:21:53 CEST 2017", "unit": "-
", "value": "[{"id": 143, "messageType": "CCM", "status": "ZERO", "text": "Tyre pressure loss. Caution stop", "unitOfLengthRemaining": "105592"}]"},
```

Note: Not all Check Control messages which occur in the vehicle are also transferred.

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**Board**  
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## (3) bmwcardata\_conditionBased-Services example:

```
\date:\2017-09\description:\Next change at specified date at the latest.\id:3\messageType:\CBS\status:\OK\text:\Brake fluid\date:\2017-09\description:\Next  
visual inspection after specified distance travelled or on given date.\id:17\messageType:\CBS\status:\OK\text:\Vehicle check\date:\2018-10\description:\Next  
mandatory vehicle inspection on specified date.\id:32\messageType:\CBS\status:\OK\text:\§ Vehicle inspection\
```

Note: Not all Condition Based service messages which occur in the vehicle are also transferred.

Possible status values:

OK means "Service not due".

PENDING means "Service imminently due".

OVERDUE means "Service overdue".

**Value range: UNKNOWN, INVALID, NA:**

UNKNOWN, INVALID, -NA- state that the value could not be determined in the vehicle or the transmission was faulty.

**\* ICE, PHEV, BEV:**

ICE means combustion engine

PHEV means hybrid drive

BEV means electric drive



## Coding format ASN:

The data transmitted correspond to the technical format of the vehicle. Some telematics data transmitted also include the "ASN\_" coding format as well as the value. ASN is the coding and plays no part in interpreting the value.

ASN\_isFalse means "false"

ASN\_isTrue means "true"

ASN\_isUnknown means "Value could not be determined in the vehicle"

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