Sample Mapping #	Mapping Type	Topics/Substitutions	API	Template-Source	Target-Payload	Expected Result
Mapping #	JSON	publishTopic: evt/outbound/# mappingTopicSample: evt/Outbound/berlin_01 filterMapping: bus event NOTE: for outbound mappings no tt (template topic) is defined. check: Use external id sub: 1.	Е	"type": "c8y_BusEvent", "text": "Bus was stopped", "time": "2022-08-05T00:14:49.389+02:00", "bus_event": "stop_event" }	<pre>"deviceId": "909090", "description": "This is a new test event.", "time": "2022-08-05700:14:49.389+02:00", "eventType": "TestEvent", "toPIc_LEVEL ": ["evt", "outbound", "berlin_01"]</pre>	Publish mqtt msg. with event on topic 'evt/outbound/berlin 01' Use following command to create sample event: c8y events createdevice "YOUR_DEVICE_ID"data 'bus_event="stop_event", text="Bus was stopped today!", type="c8y_BusEvent"'
52	JSON	<pre>publishTopic:</pre>	0	{ "bus_opp": "New engine restart operation!" }	<pre>"c8y_Id": "900900", "decription": "dummy operation", "type": "bus_operation", " TOPIC_LEVEL_": ["opp", "outbound", "berlin_01"] }</pre>	Publish mqtt msg. with operation on topic 'opp/outbound/berlin_01' Use following command to create sample event: c8y operations create device "YOUR_DEVICE_ID" data 'bus_opp="New engine restart operation!"! Note: The option "resolve2ExternalId = false" esures that the C8Y internal device id is used in substitution 3.
53	JSON	<pre>publishTopic:</pre>	E	{ "type": "c8y_BusEvent", "text": "Bus was stopped", "time": "2022-08-05T00:14:49.389+02:00", "bus_event": "stop_event" }	<pre>"c8y_Id": "909090", "description": "This is a new test event.", "time": "2022-08-05700:14:49.389+02:00", "eventType": "TestEvent", "bus event": "stop_event", "TOPIC_LEVEL_": [</pre>	Publish mqtt msg. with event on topic 'evt/outbound/berlin_01' Use following command to create sample event: c8y events createdevice "YOUR_DEVICE_ID"data 'bus event="stop event", text="Bus was stopped today!", type="c8y_BusEvent"'
54	JSON	<pre>publishTopic:</pre>	E	{ "type": "c8y_BusEvent", "text": "Bus was stopped", "time": "2022-08-05T00:14:49.389+02:00", "bus_event": "stop_event" }	<pre>"deviceId": "909090", "description": "This is a new test event.", "time": "2022-08-05T00:14:49.389+02:00", "eventType": "TestEvent", "bus event": "stop_event", "TOPIC_LEVEL_": ["evt", "outbound", "berlin_01"]</pre>	Publish msg. to kafka with event on topic 'ednvcfnr-event' Use following command to create sample event: c8y events createdevice "YOUR DEVICE ID"data 'bus event="stop event", text="Bus was stopped today!", type="c8y_BusEvent": The Cumulocity device id is added as key (message context).
55	JSON OUTBOUND check "Define substitutions as JavaScript"	publishTopic: measurement/measurements mappingTopicSample: measurement/measurements filterMapping: c8y_TemperatureMeasurement.T.value > 10 filterInventory: type = "wika_FGW23" sub are defined in the JavaScript code: //Define temperature fragment mapping temperature -> c8y_Temperature.T.value/unit const temperatureSy = new SubstitutionValue(temperatureFragment, TYPE.OBJECT, RepairStrategy.CREATE_IF_MISSING, false); addSubstitution(result, 'c8y_TemperatureProcessed', temperatureSV); NOTE: the JavaScript code is included in the samples file mappings-OUTBOUND.json	М	{ "c8y_TemperatureMeasurement": { """: { "value": 110, "unit": "C" } }, "time": "2022-08-05T00:14:49.389+02:00", "type": "c8y_TemperatureMeasurement", }	<pre>"Temperature": { "value": 110, "unit": "C" }, "source": { "id": "878275" }, "time": "2022-08-05T00:14:49.389+02:00", "type": "c8y TemperatureProcessed", "CONTEXT DATA ": { "key": "key-sample", "method": "POST", "publishTopic": "measurement/measurements" }, "TOPIC LEVEL ": ["measurement", "measurements"]}</pre>	This outbound mapping listens to c8y TemperatureMeasurement and creates a new measurement of type c8y_TemperatureProcessed

Sample Mapping #	Mapping Type	Topics/Substitutions	API	Template-Source	Target-Payload	Expected Result
56	JSON OUTBOUND check "Define substitutions as JavaScript"	<pre>publishTopic: inventory/managedObjects/# mappingTopicSample: inventory/managedObjects/+ filterMapping: type = "c8y Uplink" filterInventory: type = "wika_PGW23" check: Use message context sub are defined in the JavaScript code: //Define a new Measurement Value for Temperatures by assigning from source const w2a_configuration = { value: 'bsd_' + measurements[0] }; // Substitution: String key, Object value, MappingSubstitution.SubstituteValue.TYPE type, RepairStrategy repairStrategy const w2a_configuration_fragment = new SubstitutionValue(w2a_configuration, TYPE.OBJECT, RepairStrategy.CREATE_IF_MISSING, false); addSubstitution(result, 'w2a_configuration', w2a_configuration_fragment); NOTE: the JavaScript code is included in the samples file mappings-OUTBOUND.json</pre>	Е	<pre>"id": "74292", "time": "2025-04-01T23:06:58.794+02:00", "text": "New uplink event: 2025-04-01T23:06:58.794+02:00", "source": "name": "PDW23 - 102030", "id": "9375325" }, "type": "c8y_Uplink", "bytes": [1, 0, 35, 90, 185, 35, 110], "IDENTITY_": { "c8ySourceId": "909090" } </pre>	<pre>{ "_TOPIC_LEVEL_": ["inventory", "managedObjects", "+"], "CONTEXT_DATA_": { "key": "key-sample", "method": "POST", "publishTopic": "inventory/managedObjects/#" } }</pre>	This outbound mapping listens to events of type "c8y_Uplink" and extracts data for the fragment w2a_configuration. The inventory of this device is updated. Additionally this update is a merge/ patch of the existing fragment w2a_configuration.