DATEXII

DATEX II JSON

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JSON AND DATEX II

- Since version 3.0 there is a JSON mapping available
- Based on same methodology, just an additional PSM mapping
- The mapping is included in
 - CEN TS 17466, Intelligent transport systems Urban ITS Communication interfaces and profiles for traffic management
- Used in D2Light
- Available in tool





Some remarks

- It's not in DATEX II CEN EN16157 series
- JSON schema validation is more relaxed / forgiven
- Based on JSON schema draft 4





JSON Schema example

```
"$schema": "http://json-schema.org/draft-04/schema#",
"definitions": {
  "_AbnormalTrafficTypeEnum": {
    "type": "object",
    "additionalProperties": false,
    "properties": {
      "value": {
        "$ref": "DATEXII_3_Situation.json#/definitions/AbnormalTrafficTypeEnum"
       extendedValue": {
       "type": "string"
    "required": [
      "value"
```

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JSON instance

```
" modelBaseVersion": "3",
"situationPublication": {
   "lang": "se",
    "publicationTime": "2018-10-11T15:00:00+02:00",
   "feedType": "SITUATIONS",
    "publicationCreator": {
        "country": "se",
        "nationalIdentifier": "STA"
    "situation": [
            " id": "12345",
            "headerInformation": {
                "informationStatus": {
                    "value": "real"
            "situationRecord": [
                    "accident": {
                        " id": "2322",
                        " version": "1",
                        "situationRecordCreationTime": "2018-10-11T14:32:00+02:00",
                        "situationRecordVersionTime": "2018-10-11T14:32:00+02:00",
                        "probabilityOfOccurrence": {
                            "value": "certain"
                        "accidentType": [
                                 "value": "accidentInvolvingHeavyLorries"
```



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Thank you

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