

Popis webových služeb pro příjem vstupních dat z měřících zařízení

1 OBSAH

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2 Obecně

Tento dokument popisuje standardizované řešení pro příjem vstupních dat z automatických měřících zařízení pro měření rychlosti do systému pro validaci měření městskou policií od společnosti ICZ a.s. (dále také jen ADP).

2.1 Popis WS

Příjem dat z automatizovaných měřících zařízení je realizován pomocí webových služeb (MereniOffence a MereniADP) komunikujících pomocí XML zpráv protokol SOAP). Webové služby jsou implementovány dle specifikace v příložených WSDL souborech.

Komunikace mezi systémy probíhá pomocí protokolu HTTP, případně pak pomocí zabezpečeného protokolu HTTPS. Přístup na proxy servery agendy ADP (přes které je realizováno volání webových služeb) je realizován pomocí VPN. Autentizace není vyžadována.

2.2 Služba pro předávání vstupních dat – přestupků

MereniOffence

adresa:

http:// {IP adresa}/predzpracovani-ws/MereniOffence

popis:

webová služba (MereniOffence.wsdl) pro přenos originálního výstupního (a certifikovaného) záznamu z úsekového měření (dle výrobce)

metody:

WSInfo - test webové služby

ZapisOffence - zápis originálního (zakódovaného) záznamu z měřícího zařízení, vstupní parametry:

- offenceData (typ base64Binary) – datový soubor záznamu z měřícího zařízení
- offenceFileName (typ string) – název souboru
- offenceFileSerialNum (typ int) – pořadové číslo měření
- timeStamp (typ datetime) – datum a čas měření

MereniADP

adresa:

http:// {IP adresa}/predzpracovani-ws/MereniADP

popis:

webová služba (MereniADP.wsdl) pro předávání XML záznamů z měřících zařízení

metody:

WSInfo - test služby

ZapisData_XML - zápis XML záznamu ve formě string dle
Offence_export_scheme_sig.xsd, vstupní parametry:

- kontent (typ string) – XML popis daného měření odpovídající XSD schématu
Offence_export_scheme_sig.xsd

2.3 Zdrojové XSD – varianta 1

Offence_export_scheme_sig.xsd

```
<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:ds="http://www.w3.org/2000/09/xmldsig#"
  elementFormDefault="qualified" attributeFormDefault="unqualified">
  <xs:import namespace="http://www.w3.org/2000/09/xmldsig#" schemaLocation="http://www.w3.org/TR/2002/REC-xmldsig-core-
    20020212/xmldsig-core-schema.xsd"/>
  <xs:element name="offence">
    <xs:complexType>
      <xs:sequence>
        <xs:element name="decoderResult" type="DecodedOffenceData"/>
        <xs:element ref="ds:Signature"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:simpleType name="OffenceSolvedStateE">
    <xs:annotation>
      <xs:documentation>Stav reseni prestupku</xs:documentation>
    </xs:annotation>
    <xs:restriction base="xs:string">
      <xs:enumeration value="OFFENCE_STATUS_NOT_SOLVED"/>
      <xs:enumeration value="OFFENCE_STATUS_SOLVED"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:simpleType name="MeasValueTypeE">
    <xs:annotation>
      <xs:documentation>Merena velicina</xs:documentation>
    </xs:annotation>
    <xs:restriction base="xs:string">
      <xs:enumeration value="NONE"/>
      <xs:enumeration value="SPEED"/>
      <xs:enumeration value="TIME"/>
      <xs:enumeration value="DISTANCE"/>
      <xs:enumeration value="GPS_POSITION"/>
      <xs:enumeration value="ACCELERATION"/>
      <xs:enumeration value="WEIGHT"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:simpleType name="MeasObjectE">
    <xs:annotation>
      <xs:documentation>Mereny objekt</xs:documentation>
    </xs:annotation>
    <xs:restriction base="xs:string">
      <xs:enumeration value="VEHICLE"/>
      <xs:enumeration value="PATH_SEGMENT"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:simpleType name="ImageSubTypeE">
    <xs:annotation>
      <xs:documentation>
        Oznaceni druhu fotografie
      </xs:documentation>
    </xs:annotation>
    <xs:restriction base="xs:string">
      <xs:enumeration value="GENERAL_IMG"/>
      <xs:enumeration value="LP_CUT_OUT"/>
      <xs:enumeration value="MAIN_OFFENCE"/>
      <xs:enumeration value="POST_OFFENCE"/>
      <xs:enumeration value="GREEN_LIGHT_END"/>
      <xs:enumeration value="ORANGE_LIGHT_BEGIN"/>
      <xs:enumeration value="RED_LIGHT_BEGIN"/>
      <xs:enumeration value="ARROW_LIGHT_BEGIN"/>
      <xs:enumeration value="ARROW_LIGHT_END"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:simpleType name="ViewDirE">
    <xs:annotation>
      <xs:documentation>
        Oznaceni ktera strana vozidla je zobrazena
      </xs:documentation>
    </xs:annotation>
    <xs:restriction base="xs:string">
      <xs:enumeration value="VIEW_DIR_UNDEF"/>
      <xs:enumeration value="VIEW_DIR_FRONT"/>
      <xs:enumeration value="VIEW_DIR_REAR"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:simpleType name="PhotoViewE">
    <xs:annotation>
      <xs:documentation>
        Oznaceni ktera strana vozidla je zobrazena
      </xs:documentation>
    </xs:annotation>
    <xs:restriction base="xs:string">
      <xs:enumeration value="PHOTO_VIEW_UNDEF"/>
      <xs:enumeration value="PHOTO_VIEW_OVERVIEW"/>
      <xs:enumeration value="PHOTO_VIEW_DETAIL"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:simpleType name="SiteTypeE">
```

```

<xs:annotation>
  <xs:documentation>Oznaceni vjezd / vyjezd</xs:documentation>
</xs:annotation>
<xs:restriction base="xs:string">
  <xs:enumeration value="Arrival"/>
  <xs:enumeration value="Depatrure"/>
  <xs:enumeration value="Measure"/>
</xs:restriction>
</xs:simpleType>
<xs:simpleType name="UnitE">
  <xs:annotation>
    <xs:documentation>Pouzite jednotky</xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:string">
    <xs:enumeration value="no_unit"/>
    <xs:enumeration value="us"/>
    <xs:enumeration value="ms"/>
    <xs:enumeration value="s"/>
    <xs:enumeration value="mm"/>
    <xs:enumeration value="dm"/>
    <xs:enumeration value="m"/>
    <xs:enumeration value="g"/>
    <xs:enumeration value="kg"/>
    <xs:enumeration value="t"/>
    <xs:enumeration value="km/h"/>
    <xs:enumeration value="m/s"/>
    <xs:enumeration value="m/s2"/>
    <xs:enumeration value="mm/s2"/>
    <xs:enumeration value="km_per_h"/>
    <xs:enumeration value="m_per_s"/>
    <xs:enumeration value="m_per_s2"/>
    <xs:enumeration value="mm_per_s2"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="LimitKindE">
  <xs:annotation>
    <xs:documentation>
      Nastaveni merene veliciny
    </xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:string">
    <xs:enumeration value="LIMIT_FIXED"/>
    <xs:enumeration value="LIMIT_DYNAMIC"/>
    <xs:enumeration value="LIMIT_BY_CLASS"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="DecoderResultCodeE">
  <xs:annotation>
    <xs:documentation/>
  </xs:annotation>
  <xs:restriction base="xs:string">
    <xs:enumeration value="res_ok"/>
    <xs:enumeration value="err_saveResDataFailed"/>
    <xs:enumeration value="err_makeOutputDirFailed"/>
    <xs:enumeration value="warn_badOffenceFileName"/>
    <xs:enumeration value="warn_missingMandatoryParam"/>
    <xs:enumeration value="err_unsupportedOffenceKind"/>
    <xs:enumeration value="err_offenceFileVerifyFailed"/>
    <xs:enumeration value="err_unknownError"/>
    <xs:enumeration value="err_loadOffenceFileFailed"/>
    <xs:enumeration value="err_appendLimitClassesFailed"/>
    <xs:enumeration value="err_imageDecodingFailed"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="ImageDataOutFormE">
  <xs:annotation>
    <xs:documentation>
      Format kodovani dat obrazku - Base64 anebo jmeno samostatneho souboru
    </xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:string">
    <xs:enumeration value="FILE_REFERENCE"/>
    <xs:enumeration value="BASE_64"/>
  </xs:restriction>
</xs:simpleType>
<xs:complexType name="MeasInfo">
  <xs:sequence>
    <xs:element name="timeStamp" type="xs:dateTime" minOccurs="0" maxOccurs="1">
      <xs:annotation>
        <xs:documentation>
          Cas vyhodnoceni zaznamu
        </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="localityId" type="xs:string" minOccurs="1" maxOccurs="1">
      <xs:annotation>
        <xs:documentation>
          Id mereneho useku
        </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="localityDesc" type="xs:string" minOccurs="1" maxOccurs="1">
      <xs:annotation>
        <xs:documentation>
          Popis mereneho useku
        </xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>

```

```

<xs:element name="directionId" type="xs:string" minOccurs="1" maxOccurs="1">
  <xs:annotation>
    <xs:documentation>
      Smer mereni
    </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="measId" type="xs:string" minOccurs="0" maxOccurs="1">
  <xs:annotation>
    <xs:documentation>
      Cislo mereni
    </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="tsArrival" type="xs:dateTime" minOccurs="0" maxOccurs="1">
  <xs:annotation>
    <xs:documentation>
      Cas prijedu
    </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="tsDeparture" type="xs:dateTime" minOccurs="0" maxOccurs="1">
  <xs:annotation>
    <xs:documentation>
      Cas odjezdu
    </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="lpValue" minOccurs="0">
  <xs:annotation>
    <xs:documentation>
      SPZ / MPZ
    </xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:simpleContent>
      <xs:extension base="xs:string">
        <xs:attribute name="country" type="xs:string" use="required">
          <xs:annotation>
            <xs:documentation>
              MPZ
            </xs:documentation>
          </xs:annotation>
        </xs:attribute>
      </xs:extension>
    </xs:simpleContent>
  </xs:complexType>
</xs:element>
<xs:element name="measValues" minOccurs="1" maxOccurs="1">
  <xs:annotation>
    <xs:documentation>
      Namerene hodnoty (rychlost)
    </xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element name="value" maxOccurs="unbounded">
        <xs:complexType>
          <xs:simpleContent>
            <xs:extension base="xs:string">
              <xs:attribute name="type" type="MeasValueTypeE" use="required"/>
              <xs:attribute name="object" type="MeasObjectE" use="required"/>
              <xs:attribute name="limit" type="xs:int" use="required"/>
              <xs:attribute name="limitKind" type="LimitKindE" use="required"/>
              <xs:attribute name="unit" type="UnitE" use="required"/>
              <xs:attribute name="limitClassId" type="xs:int" use="optional"/>
              <xs:attribute name="limitScheme" type="xs:string" use="optional"/>
              <xs:attribute name="mpe" type="xs:int" use="optional"/>
              <xs:attribute name="isViolation" type="xs:int" use="optional"/>
            </xs:extension>
          </xs:simpleContent>
        </xs:complexType>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="additionalMeasValues" minOccurs="0" maxOccurs="1">
  <xs:annotation>
    <xs:documentation>
      Dodatecne parametry k mereni (delka useku, doba prujezdu, GPS vyjezd brana)
    </xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element name="value" minOccurs="0" maxOccurs="unbounded">
        <xs:complexType>
          <xs:simpleContent>
            <xs:extension base="xs:string">
              <xs:attribute name="type" type="MeasValueTypeE" use="required"/>
              <xs:attribute name="object" type="MeasObjectE" use="required"/>
              <xs:attribute name="unit" type="UnitE" use="optional"/>
            </xs:extension>
          </xs:simpleContent>
        </xs:complexType>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

```

<xs:element name="limitClasses" minOccurs="0" maxOccurs="1">
  <xs:annotation>
    <xs:documentation>
      mnozina skupin limitu podle klasifikacni tridy
    </xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element name="classGroup" minOccurs="0" maxOccurs="unbounded">
        <xs:complexType>
          <xs:sequence>
            <xs:element name="class" minOccurs="1" maxOccurs="unbounded">
              <xs:complexType>
                <xs:simpleContent>
                  <xs:extension base="xs:string">
                    <xs:attribute name="id" type="xs:int" use="required"/>
                    <xs:attribute name="limit" type="xs:int" use="required"/>
                  </xs:extension>
                </xs:simpleContent>
              </xs:complexType>
            </xs:element>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
<xs:complexType name="DecodedOffenceData">
  <xs:sequence>
    <xs:element name="error">
      <xs:annotation>
        <xs:documentation>Popis chyby</xs:documentation>
      </xs:annotation>
      <xs:complexType>
        <xs:simpleContent>
          <xs:extension base="xs:string">
            <xs:attribute name="code" type="xs:int" use="required"/>
            <xs:attribute name="codeEnum" type="DecoderResultCodeE" use="optional"/>
            <xs:attribute name="detailDescription" type="xs:string" use="optional"/>
          </xs:extension>
        </xs:simpleContent>
      </xs:complexType>
    </xs:element>
    <xs:element name="processStatus" type="OffenceSolvedStateE" minOccurs="0">
      <xs:annotation>
        <xs:documentation>
          Procesni stav prestupku
        </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="offenceKind" type="xs:string" minOccurs="1" maxOccurs="1">
      <xs:annotation>
        <xs:documentation>
          Merici zarizeni
        </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="offenceFileSerialNum" type="xs:int" minOccurs="1" maxOccurs="1">
      <xs:annotation>
        <xs:documentation>
          Poradove cislo mereni
        </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="deviceSerialNum" type="xs:string" minOccurs="1" maxOccurs="1">
      <xs:annotation>
        <xs:documentation>
          Vyrobní číslo meridla
        </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="offenceFileName" type="xs:string" minOccurs="1" maxOccurs="1">
      <xs:annotation>
        <xs:documentation>
          Název vystupního souboru
        </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="measInfo" type="MeasInfo" minOccurs="1" maxOccurs="1"/>
    <xs:element name="site" minOccurs="1" maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation>
          Brana (snímací zařízení)
        </xs:documentation>
      </xs:annotation>
      <xs:complexType>
        <xs:sequence>
          <xs:element name="timeStamp" type="xs:string" minOccurs="0" maxOccurs="1"/>
          <xs:element name="GPS" type="xs:string" minOccurs="0" maxOccurs="1">
            <xs:annotation>
              <xs:documentation>
                GSP souradnice
              </xs:documentation>
            </xs:annotation>
          </xs:element>
          <xs:element name="laneNum" type="xs:int" minOccurs="1" maxOccurs="1">

```



```

        <xs:annotation>
          <xs:documentation>
            Cislo jizdniho pruhu
          </xs:documentation>
        </xs:annotation>
      </xs:element>
    </xs:sequence>
    <xs:element name="road" type="xs:string" minOccurs="0" maxOccurs="1">
      <xs:annotation>
        <xs:documentation>
          Oznaceni komunikace
        </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="roadStationing" minOccurs="0" maxOccurs="1">
      <xs:annotation>
        <xs:documentation>
          Staniceni komunikace
        </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:complexType>
      <xs:simpleContent>
        <xs:extension base="xs:float">
          <xs:attribute name="unit" type="UnitE" use="required"/>
        </xs:extension>
      </xs:simpleContent>
    </xs:complexType>
  </xs:element>
  <xs:element name="id" type="xs:string" minOccurs="1" maxOccurs="1">
    <xs:annotation>
      <xs:documentation>
        Vnitri ID snimacih zarizeni
      </xs:documentation>
    </xs:annotation>
  </xs:element>
</xs:sequence>
<xs:attribute name="type" type="SiteTypeE">
  <xs:annotation>
    <xs:documentation>
      Oznaceni (vjezd / vyjezd)
    </xs:documentation>
  </xs:annotation>
</xs:attribute>
</xs:complexType>
</xs:element>
<xs:element name="image" maxOccurs="unbounded">
  <xs:annotation>
    <xs:documentation>
      Fotodokumentace
    </xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element name="imgData" minOccurs="1" maxOccurs="1">
        <xs:annotation>
          <xs:documentation>
            Base64 data snimku
          </xs:documentation>
        </xs:annotation>
        <xs:complexType>
          <xs:simpleContent>
            <xs:extension base="xs:string">
              <xs:attribute name="format" type="xs:string" use="required"/>
              <xs:attribute name="coding" type="ImageDataOutFormE" use="required"/>
            </xs:extension>
          </xs:simpleContent>
        </xs:complexType>
      </xs:element>
      <xs:element name="timestamp" type="xs:dateTime" minOccurs="1" maxOccurs="1">
        <xs:annotation>
          <xs:documentation>
            Cas vjezdu / vyjezdu
          </xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="imgView" type="PhotoViewE" minOccurs="0" maxOccurs="1"/>
      <xs:element name="arrivalDeparture" type="xs:string" minOccurs="1" maxOccurs="1">
        <xs:annotation>
          <xs:documentation>
            Oznaceni vjezdu / vyjezdu
          </xs:documentation>
        </xs:annotation>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="imageSubType" type="ImageSubTypeE" minOccurs="1" maxOccurs="1"/>
  <xs:element name="viewDirection" type="ViewDirE" minOccurs="0" maxOccurs="1"/>
  <xs:element name="graphics">
    <xs:complexType>
      <xs:sequence minOccurs="0" maxOccurs="1">
        <xs:element name="vLine" minOccurs="0" maxOccurs="unbounded">
          <xs:complexType>
            <xs:attribute name="x1" type="xs:int" use="required"/>
            <xs:attribute name="y1" type="xs:int" use="required"/>
            <xs:attribute name="x2" type="xs:int" use="required"/>
            <xs:attribute name="y2" type="xs:int" use="required"/>
          </xs:complexType>
        </xs:element>
        <xs:element name="vArea" minOccurs="0" maxOccurs="unbounded">
          <xs:complexType>
            <xs:attribute name="x1" type="xs:int" use="required"/>

```

```

        <xs:attribute name="y1" type="xs:int" use="required"/>
        <xs:attribute name="x2" type="xs:int" use="required"/>
        <xs:attribute name="y2" type="xs:int" use="required"/>
    </xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:sequence>
<xs:attribute name="outputDataStructureVersion" type="xs:string" use="required"/>
<xs:attribute name="decodingStartTime" type="xs:dateTime" use="required"/>
<xs:attribute name="hostApplicationInfo" type="xs:string" use="required"/>
<xs:attribute name="decoderInfo" type="xs:string" use="required"/>
</xs:complexType>
</xs:schema>

```

2.4 Zdrojové XSD – varianta 2

```

<?xml version="1.0" encoding="utf-8"?>
<!-- Created with Liquid Technologies Online Tools 1.0 (https://www.liquid-technologies.com) -->
<xs:schema attributeFormDefault="unqualified" elementFormDefault="qualified" xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:element name="ViewerOffenceInfo">
        <xs:complexType>
            <xs:sequence>
                <xs:element name="Type" type="xs:string" />
                <xs:element name="DeviceID" type="xs:string" />
                <xs:element name="DeviceName" type="xs:string" />
                <xs:element name="Location">
                    <xs:complexType>
                        <xs:sequence>
                            <xs:element name="City" type="xs:string" />
                            <xs:element name="Street" type="xs:string" />
                            <xs:element name="StreetDirection" type="xs:string" />
                            <xs:element name="LocDescription" />
                            <xs:element name="GPS" type="xs:string" />
                            <xs:element name="GPSEntry" type="xs:string" />
                            <xs:element name="GPSLeave" type="xs:string" />
                            <xs:element name="LaneDetailID" type="xs:unsignedByte" />
                        </xs:sequence>
                    </xs:complexType>
                </xs:element>
                <xs:element name="Time" type="xs:string" />
                <xs:element name="LicencePlateText" type="xs:string" />
                <xs:element name="LicencePlateRightness" type="xs:string" />
                <xs:element name="LicencePlateRightnessSum" type="xs:unsignedByte" />
                <xs:element name="IsDemo" type="xs:boolean" />
                <xs:element name="VehicleSpeeding">
                    <xs:complexType>
                        <xs:sequence>
                            <xs:element name="SpeedLimit" type="xs:unsignedByte" />
                            <xs:element name="SpeedTolerance" type="xs:unsignedByte" />
                            <xs:element name="SpeedMeasured" type="xs:unsignedByte" />
                            <xs:element name="SpeedMeasuredPrecise" type="xs:decimal" />
                            <xs:element name="MeasureDistance" type="xs:decimal" />
                            <xs:element name="OffenceMode" type="xs:string" />
                            <xs:element name="IsMetrologicalVerified" type="xs:boolean" />
                            <xs:element name="MetrologicalVerifiedTimeTo" type="xs:string" />
                            <xs:element name="OffenceOrderID" type="xs:unsignedByte" />
                        </xs:sequence>
                    </xs:complexType>
                </xs:element>
            </xs:sequence>
        </xs:complexType>
    </xs:element>
    <xs:element name="MeanSpeed">
        <xs:complexType>
            <xs:sequence>
                <xs:element name="SpeedLimit" type="xs:unsignedByte" />
                <xs:element name="SpeedTolerance" type="xs:unsignedByte" />
                <xs:element name="SpeedLimitNormal" type="xs:unsignedByte" />
                <xs:element name="SpeedLimitHeavy" type="xs:unsignedByte" />
                <xs:element name="SpeedToleranceNormal" type="xs:unsignedByte" />
                <xs:element name="SpeedToleranceHeavy" type="xs:unsignedByte" />
                <xs:element name="VehicleType10" type="xs:string" />
                <xs:element name="IsVehicleSpeedHeavy" type="xs:boolean" />
                <xs:element name="VehicleCategory" type="xs:string" />
                <xs:element name="SpeedMeasured" type="xs:unsignedByte" />
                <xs:element name="SpeedMeasuredPrecise" type="xs:decimal" />
                <xs:element name="SectorLength" type="xs:decimal" />
                <xs:element name="EntryTime" type="xs:string" />
                <xs:element name="LeaveTime" type="xs:string" />
                <xs:element name="OffenceMode" type="xs:string" />
            </xs:sequence>
        </xs:complexType>
    </xs:element>

```

```

        <xs:element name="IsMetrologicalVerified" type="xs:boolean" />
        <xs:element name="MetrologicalVerifiedTimeTo" type="xs:string" />
        <xs:element name="OffenceOrderID" type="xs:unsignedShort" />
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="Semaphore">
    <xs:complexType>
        <xs:sequence>
            <xs:element name="Direction" type="xs:string" />
            <xs:element name="Position">
                <xs:complexType>
                    <xs:sequence>
                        <xs:element name="left" type="xs:unsignedByte" />
                        <xs:element name="top" type="xs:unsignedByte" />
                        <xs:element name="height" type="xs:unsignedByte" />
                        <xs:element name="width" type="xs:unsignedByte" />
                    </xs:sequence>
                </xs:complexType>
            </xs:element>
            <xs:element name="BeforeOffence">
                <xs:complexType>
                    <xs:sequence>
                        <xs:element name="Signal" type="xs:string" />
                        <xs:element name="StartTime" type="xs:string" />
                        <xs:element name="EndTime" type="xs:string" />
                    </xs:sequence>
                </xs:complexType>
            </xs:element>
            <xs:element name="DuringOffence">
                <xs:complexType>
                    <xs:sequence>
                        <xs:element name="Signal" type="xs:string" />
                        <xs:element name="StartTime" type="xs:string" />
                        <xs:element name="EndTime" type="xs:string" />
                        <xs:element name="OffenceOrderID" type="xs:unsignedByte" />
                    </xs:sequence>
                </xs:complexType>
            </xs:element>
            <xs:element name="TimePastSignalStop" type="xs:decimal" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="Images">
    <xs:complexType>
        <xs:sequence>
            <xs:element maxOccurs="unbounded" name="Image">
                <xs:complexType>
                    <xs:sequence>
                        <xs:element name="FileName" type="xs:string" />
                        <xs:element name="Type" type="xs:string" />
                        <xs:element name="ImageType" type="xs:string" />
                        <xs:element name="Time" type="xs:string" />
                        <xs:element minOccurs="0" name="LicencePlate">
                            <xs:complexType>
                                <xs:sequence>
                                    <xs:element name="Position">
                                        <xs:complexType>
                                            <xs:sequence>
                                                <xs:element name="left" type="xs:unsignedShort" />
                                                <xs:element name="top" type="xs:unsignedShort" />
                                                <xs:element name="height" type="xs:unsignedByte" />
                                                <xs:element name="width" type="xs:unsignedByte" />
                                            </xs:sequence>
                                        </xs:complexType>
                                    </xs:element>
                                    <xs:element name="Rotation" type="xs:decimal" />
                                    <xs:element name="Text" type="xs:string" />
                                </xs:sequence>
                            </xs:complexType>
                        </xs:element>
                    </xs:sequence>
                </xs:complexType>
            </xs:element>
            <xs:element minOccurs="0" name="DetectionLoop">
                <xs:complexType>
                    <xs:sequence>
                        <xs:element name="left" type="xs:unsignedByte" />
                        <xs:element name="top" type="xs:unsignedByte" />
                        <xs:element name="height" type="xs:unsignedByte" />
                        <xs:element name="width" type="xs:unsignedByte" />
                    </xs:sequence>
                </xs:complexType>
            </xs:element>
            <xs:element minOccurs="0" name="DetectionLine">
                <xs:complexType>
                    <xs:sequence>
                        <xs:element name="left" type="xs:unsignedByte" />
                        <xs:element name="top" type="xs:unsignedByte" />
                        <xs:element name="height" type="xs:unsignedByte" />
                        <xs:element name="width" type="xs:unsignedByte" />
                    </xs:sequence>
                </xs:complexType>
            </xs:element>
        </xs:sequence>
    </xs:complexType>
</xs:element>

```

```

        </xs:complexType>
        </xs:element>
        <xs:element minOccurs="0" name="SpeedByRadar" type="xs:unsignedByte" />
    </xs:sequence>
</xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:schema>

```

2.5 WSDL služeb

2.5.1 MereniOffence.wSDL

```

<?xml version="1.0" encoding="utf-8"?>
<wsdl:definitions xmlns:s="http://www.w3.org/2001/XMLSchema" xmlns:soap12="http://schemas.xmlsoap.org/wsdl/soap12/"
    xmlns:http="http://schemas.xmlsoap.org/wsdl/http/"
    xmlns:tns="http://tempuri.org/" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
    xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/" targetNamespace="http://tempuri.org/">
    <wsdl:types>
        <s:schema>
            <s:include schemaLocation="Offence_export_scheme_sig.xsd"/>
        </s:schema>
        <s:schema elementFormDefault="qualified" targetNamespace="http://tempuri.org/">
            <s:complexType name="ResultZapisData">
                <s:sequence>
                    <s:element minOccurs="1" maxOccurs="1" name="PID" type="s:int"/>
                    <s:element minOccurs="0" maxOccurs="1" name="Status" type="tns:ResultStatus"/>
                </s:sequence>
            </s:complexType>
            <s:complexType name="ResultStatus">
                <s:sequence>
                    <s:element minOccurs="0" maxOccurs="1" name="Status_kod" type="s:string"/>
                    <s:element minOccurs="0" maxOccurs="1" name="Status_text" type="s:string"/>
                </s:sequence>
            </s:complexType>
            <s:element name="ZapisData_XML">
                <s:complexType>
                    <s:sequence>
                        <s:element minOccurs="0" maxOccurs="1" name="content" type="s:string"/>
                    </s:sequence>
                </s:complexType>
            </s:element>
            <s:element name="ZapisData_XMLResponse">
                <s:complexType>
                    <s:sequence>
                        <s:element minOccurs="1" maxOccurs="1" name="ZapisData_XMLResult" type="tns:ResultZapisData"/>
                    </s:sequence>
                </s:complexType>
            </s:element>
            <s:element name="WSInfo">
                <s:complexType/>
            </s:element>
            <s:element name="WSInfoResponse">
                <s:complexType>
                    <s:sequence>
                        <s:element minOccurs="1" maxOccurs="1" name="WSInfoResult" type="tns:ResultWSInfo"/>
                    </s:sequence>
                </s:complexType>
            </s:element>
            <s:complexType name="ResultWSInfo">
                <s:sequence>
                    <s:element minOccurs="0" maxOccurs="1" name="Info" type="tns:WSInfo"/>
                    <s:element minOccurs="0" maxOccurs="1" name="Status" type="tns:ResultStatus"/>
                </s:sequence>
            </s:complexType>
            <s:complexType name="WSInfo">
                <s:sequence>
                    <s:element minOccurs="0" maxOccurs="1" name="WS_verze" type="s:string"/>
                    <s:element minOccurs="0" maxOccurs="1" name="IP_adresa" type="s:string"/>
                    <s:element minOccurs="0" maxOccurs="1" name="DB_data" type="s:string"/>
                </s:sequence>
            </s:complexType>
        </s:schema>
    </wsdl:types>
    <wsdl:message name="ZapisData_XMLSoapIn">

```

```

    <wsdl:part name="parameters" element="tns:ZapisData_XML"/>
  </wsdl:message>
  <wsdl:message name="ZapisData_XMLSoapOut">
    <wsdl:part name="parameters" element="tns:ZapisData_XMLResponse"/>
  </wsdl:message>
  <wsdl:message name="WSInfoSoapIn">
    <wsdl:part name="parameters" element="tns:WSInfo"/>
  </wsdl:message>
  <wsdl:message name="WSInfoSoapOut">
    <wsdl:part name="parameters" element="tns:WSInfoResponse"/>
  </wsdl:message>
  <wsdl:portType name="MereniADPSoap">
    <wsdl:operation name="ZapisData_XML">
      <wsdl:input message="tns:ZapisData_XMLSoapIn"/>
      <wsdl:output message="tns:ZapisData_XMLSoapOut"/>
    </wsdl:operation>
    <wsdl:operation name="WSInfo">
      <wsdl:input message="tns:WSInfoSoapIn"/>
      <wsdl:output message="tns:WSInfoSoapOut"/>
    </wsdl:operation>
  </wsdl:portType>
  <wsdl:binding name="MereniADPSoap" type="tns:MereniADPSoap">
    <soap:binding transport="http://schemas.xmlsoap.org/soap/http"/>
    <wsdl:operation name="ZapisData_XML">
      <soap:operation soapAction="http://tempuri.org/ZapisData_XML" style="document"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="WSInfo">
      <soap:operation soapAction="http://tempuri.org/WSInfo" style="document"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
    </wsdl:operation>
  </wsdl:binding>
  <wsdl:binding name="MereniADPSoap12" type="tns:MereniADPSoap">
    <soap12:binding transport="http://schemas.xmlsoap.org/soap/http"/>
    <wsdl:operation name="ZapisData">
      <soap12:operation soapAction="http://tempuri.org/ZapisData" style="document"/>
      <wsdl:input>
        <soap12:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal"/>
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="ZapisData_XML">
      <soap12:operation soapAction="http://tempuri.org/ZapisData_XML" style="document"/>
      <wsdl:input>
        <soap12:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal"/>
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="WSInfo">
      <soap12:operation soapAction="http://tempuri.org/WSInfo" style="document"/>
      <wsdl:input>
        <soap12:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal"/>
      </wsdl:output>
    </wsdl:operation>
  </wsdl:binding>
  <wsdl:service name="MereniADP">
    <wsdl:port name="MereniADPSoap" binding="tns:MereniADPSoap">
      <soap:address location="http://localhost:8080/predzpracovani-ws/MereniADP"/>
    </wsdl:port>
    <wsdl:port name="MereniADPSoap12" binding="tns:MereniADPSoap12">
      <soap12:address location="http://localhost:8080/predzpracovani-ws/MereniADP"/>
    </wsdl:port>
  </wsdl:service>
</wsdl:definitions>

```

2.5.2 MereniADP.wsd

```
<?xml version="1.0" encoding="utf-8"?>
<wsdl:definitions xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" xmlns:tns="http://tempuri.org/"
  xmlns:s="http://www.w3.org/2001/XMLSchema" xmlns:soap12="http://schemas.xmlsoap.org/wsdl/soap12/"
  xmlns:http="http://schemas.xmlsoap.org/wsdl/http/" xmlns:wsd="http://schemas.xmlsoap.org/wsdl/"
  targetNamespace="http://tempuri.org/">
  <wsdl:types>
    <s:schema elementFormDefault="qualified" targetNamespace="http://tempuri.org/">
      <s:element name="WSInfo">
        <s:complexType/>
      </s:element>
      <s:element name="WSInfoResponse">
        <s:complexType>
          <s:sequence>
            <s:element minOccurs="1" maxOccurs="1" name="WSInfoResult" type="tns:ResultWSInfo"/>
          </s:sequence>
        </s:complexType>
      </s:element>
      <s:complexType name="ResultWSInfo">
        <s:sequence>
          <s:element minOccurs="0" maxOccurs="1" name="Info" type="tns:WSInfo"/>
          <s:element minOccurs="0" maxOccurs="1" name="Status" type="tns:ResultStatus"/>
        </s:sequence>
      </s:complexType>
      <s:complexType name="WSInfo">
        <s:sequence>
          <s:element minOccurs="0" maxOccurs="1" name="WS_verze" type="s:string"/>
          <s:element minOccurs="0" maxOccurs="1" name="IP_adresa" type="s:string"/>
        </s:sequence>
      </s:complexType>
      <s:complexType name="ResultStatus">
        <s:sequence>
          <s:element minOccurs="0" maxOccurs="1" name="Status_kod" type="s:string"/>
          <s:element minOccurs="0" maxOccurs="1" name="Status_text" type="s:string"/>
        </s:sequence>
      </s:complexType>
      <s:element name="ZapisOffence">
        <s:complexType>
          <s:sequence>
            <s:element minOccurs="0" maxOccurs="1" name="offenceData" type="s:base64Binary"/>
            <s:element minOccurs="0" maxOccurs="1" name="offenceFileName" type="s:string"/>
            <s:element minOccurs="1" maxOccurs="1" name="offenceFileSerialNum" type="s:int"/>
            <s:element minOccurs="1" maxOccurs="1" name="timeStamp" nillable="true" type="s:dateTime"/>
          </s:sequence>
        </s:complexType>
      </s:element>
      <s:element name="ZapisOffenceResponse">
        <s:complexType>
          <s:sequence>
            <s:element minOccurs="1" maxOccurs="1" name="ZapisOffenceResult" type="tns:ResultZapisOffence"/>
          </s:sequence>
        </s:complexType>
      </s:element>
      <s:complexType name="ResultZapisOffence">
        <s:sequence>
          <s:element minOccurs="0" maxOccurs="1" name="Status" type="tns:ResultStatus"/>
        </s:sequence>
      </s:complexType>
    </s:schema>
  </wsdl:types>
  <wsdl:message name="WSInfoSoapIn">
    <wsdl:part name="parameters" element="tns:WSInfo"/>
  </wsdl:message>
  <wsdl:message name="WSInfoSoapOut">
    <wsdl:part name="parameters" element="tns:WSInfoResponse"/>
  </wsdl:message>
  <wsdl:message name="ZapisOffenceSoapIn">
    <wsdl:part name="parameters" element="tns:ZapisOffence"/>
  </wsdl:message>
  <wsdl:message name="ZapisOffenceSoapOut">
    <wsdl:part name="parameters" element="tns:ZapisOffenceResponse"/>
  </wsdl:message>
  <wsdl:portType name="MereniOffenceSoap">
    <wsdl:operation name="WSInfo">
      <wsdl:input message="tns:WSInfoSoapIn"/>
      <wsdl:output message="tns:WSInfoSoapOut"/>
    </wsdl:operation>
    <wsdl:operation name="ZapisOffence">
      <wsdl:input message="tns:ZapisOffenceSoapIn"/>
      <wsdl:output message="tns:ZapisOffenceSoapOut"/>
    </wsdl:operation>
  </wsdl:portType>
  <wsdl:binding name="MereniOffenceSoap" type="tns:MereniOffenceSoap">
    <soap:binding transport="http://schemas.xmlsoap.org/soap/http"/>
    <wsdl:operation name="WSInfo">
      <soap:operation soapAction="http://tempuri.org/WSInfo" style="document"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
    </wsdl:operation>
  </wsdl:binding>

```

```
<wsdl:operation name="ZapisOffence">
  <soap:operation soapAction="http://tempuri.org/ZapisOffence" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
</wsdl:operation>
</wsdl:binding>
<wsdl:binding name="MereniOffenceSoap12" type="tns:MereniOffenceSoap">
  <soap12:binding transport="http://schemas.xmlsoap.org/soap/http"/>
  <wsdl:operation name="WSInfo">
    <soap12:operation soapAction="http://tempuri.org/WSInfo" style="document"/>
    <wsdl:input>
      <soap12:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap12:body use="literal"/>
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="ZapisOffence">
    <soap12:operation soapAction="http://tempuri.org/ZapisOffence" style="document"/>
    <wsdl:input>
      <soap12:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap12:body use="literal"/>
    </wsdl:output>
  </wsdl:operation>
</wsdl:binding>
<wsdl:service name="MereniOffence">
  <wsdl:port name="MereniOffenceSoap" binding="tns:MereniOffenceSoap">
    <soap:address location="http://localhost:8080/predzpracovani-ws/MereniOffence"/>
  </wsdl:port>
  <wsdl:port name="MereniOffenceSoap12" binding="tns:MereniOffenceSoap12">
    <soap12:address location="http://localhost:8080/predzpracovani-ws/MereniOffence"/>
  </wsdl:port>
</wsdl:service>
</wsdl:definitions>
```