

Missouri Data Exchange (MoDEx)

Automated License Plate Recognition (ALPR)

Hotsheet Interface

Overview

5/20/2022



This exchange was built in a partnership between the Missouri Department of Public Safety, the Missouri State Highway Patrol, and RKV Technologies.

Overview:

The MoDEx ALPR Hotsheet Interface is a REST API that uses the Patrol's Enterprise Service Bus to service incoming requests for License Plate data associated with records stored in the National Crime Information Center (NCIC), the Missouri Uniform Law-Enforcement System (MULES), and the MoAlerts System (AMBER and Blue Alerts). The REST API requires JSON formatting for all input requests. The API returns data in JSON format. The REST API response data conforms to a NIEM compatible JSON schema document. Active records that exist in NCIC, MULES, and MoAlerts for the following record types are included in this exchange:

1. Stolen vehicles;
2. Warrants;
3. Persons of interest;
4. Protection orders;
5. Sex offenders;
6. AMBER alerts;
7. Blue alerts;
8. Missing persons;
9. Stolen license plates;
10. NCIC Violent persons;
11. NCIC records associated with the Canadian Police Information Center (CPIC);
12. NCIC Supervised release records;
13. NCIC Gang records; and
14. NCIC Terrorist records

On average, AMBER and Blue Alert data is updated every 60 seconds, MULES data is updated every 15 minutes, and NCIC data is updated every four hours.

Description of Request and Response Types:

The base URL for the REST API is /modexalpr. The REST API provides the following endpoints:

/modexalpr/lpq_test_all – This endpoint is designed for the HTTP verb GET. This endpoint tests the return of an alerts.json file as a gzip download.

/modexalpr/lpq_all – This endpoint is designed for the HTTP verb POST. This endpoint returns an alerts.json file as a gzip download. This endpoint returns all NCIC, MULES, and Alerts data with Alert posters and not all Alert images.

/modexalpr/lpq – This endpoint is designed for the HTTP verb POST. This endpoint returns data for a single license plate query, LPQ. This endpoint returns data from NCIC, MULES, and Alerts that matches the license plate and state specified.

/modexalpr/lpq_ncic – This endpoint is designed for the HTTP verb POST. This endpoint returns all NCIC data.

/modexalpr/lpq_mules – This endpoint is designed for the HTTP verb POST. This endpoint returns all MULES data.

/modexalpr/lpq_alerts – This endpoint is designed for the HTTP verb POST. This endpoint returns all ALERTS data with a binary image of the PDF poster. This endpoint does not return person and/or vehicle images.

/modexalpr/lpq_alert_id – This endpoint is designed for the HTTP verb POST. This endpoint returns alert information for a specific alert by id and contains all Alert images.

Each input has an associated set of request parameters that should be in either the GET query parameters or POST body depending on the selected endpoint. The API Description section contains more information about the request parameters.

API DESCRIPTION

API – Request Format

All requests addressed to the POST endpoints should be JSON formatted and adhere to the following JSON schema document.

```
{
  "$schema": "http://json-schema.org/draft-07/schema",
  "$id": "http://mshp.dps.mo.gov.com/ModEx-ALPR/1.0/",
  "title": "MoDEx ALPR JSON Request Schema",
  "description": "Describes ALPR System Plate Search Request - Will return
NCIC,MULES,Amber Alert from ALPR API",
  "type": "object",
  "properties": {
    {
      "@context": {
        "$ref": "#/definitions/@context"
      },
      "lpquser": {
        "type": "string"
      },
      "lpqcredential": {
        "type": "string"
      },
      "lpqplate": {
        "type": "string"
      },
      "lpqplatestate": {
        "type": "string"
      },
      "agencyORI": {
        "type": "string"
      }
    },
    "definitions": {
      "@context": {
        "type": "object",
        "properties": {
          "alpr": {
            "type": "string"
          }
        }
      }
    }
  }
}
```

A JSON request must contain the following 5 fields:

lpquser – The MSHP assigned username for an agency authorized to make LPQ requests.

lpqcredential – The password associated with the provided lpquser.

lpqplate – The license plate value to return information for.

lpqplatestate – The issuing state associated with the lpqplate value.

agencyORI – The ORI associated with the authorized lpquser.

The following is a valid JSON request for both the /lpq and lpq_all endpoints.

```
{
  "lpquser": "mshp\\Userid",
  "lpqcredential": "UserPwd",
  "lpqplate": "45760T1",
  "lpqplatestate": "CA",
  "agencyORI": "MOKPDXXXX"
}
```

For testing, the REST API GET endpoint, /lpq_test_all, requires lpquser, lpqcredential, and agencyORI as query parameter strings in the URL specification of the GET endpoint. The API GET endpoint doesn't require the plate and plate state value for testing.

The following is an example of the /lpq_test_all GET request:

https://portal.mshp.dps.mo.gov/modexalpr/lpq_test_all?lpquser=mshp%5CD-TESTIR1&lpqcredential=P@trol2022&agencyORI=MOMHP0000

All HTTP special characters should be escaped to ensure that the GET query string parameters are processed correctly by the REST API IIB endpoint. In the example listed above, the \ character between mshp and the username must be escaped for browsers to correctly send the request.

API – Response Format

All responses generated by all API endpoints are JSON formatted and adhere to the following JSON schema document.

```
{
  "$schema": "http://json-schema.org/draft-07/schema",
  "$id": "http://mshp.dps.mo.gov.com/ModEx-ALPR/1.0/",
  "title": "ModEx ALPR JSON Response Schema",
  "description": "Describes NCIC,MULES,Amber Alert Return from ALPR API",
  "type": "object",
```

```

"oneOf": [
  {
    "type": "object",
    "properties": {
      "@context": {
        "$ref": "#/definitions/@context"
      },
      "alpr:Response": {
        "$ref": "#/definitions/alpr:ResponseType"
      }
    },
    "required": ["alpr:Response"]
  },
  {
    "type": "object",
    "properties": {
      "@context": {
        "$ref": "#/definitions/@context"
      },
      "alpr:AlertImages": {
        "type": "object",
        "items": {
          "$ref":
            "#/definitions/alpr:AlertImagesDetailsType"
        }
      }
    },
    "required": ["alpr:AlertImages"]
  }
],
"definitions": {
  "@context": {
    "type": "object",

```

```

        "properties": {
            "alpr": {
                "type": "string"
            },
            "j": {
                "type": "string"
            },
            "nc": {
                "type": "string"
            }
        }
    },
    "alpr:ResponseType": {
        "type": "object",
        "properties": {
            "alpr:Ncic": {
                "type": "array",
                "items": {
                    "$ref":
"#/definitions/alpr:NcicResponseType"
                }
            },
            "alpr:Mules": {
                "type": "array",
                "items": {
                    "$ref":
"#/definitions/alpr:MulesResponseType"
                }
            },
            "alpr:Alerts": {
                "type": "array",
                "items": {
                    "$ref":
"#/definitions/alpr:AlertsResponseType"

```

```

        }
    }
}
},
"alpr:AlertImagesDetailsType": {
    "type": "object",
    "properties": {
        "alpr:AlertPersonImages": {
            "type": "array",
            "items": {
                "$ref":
"#/definitions/alpr:AlertPersonImageType"
            }
        },
        "alpr:AlertVehicleImages": {
            "type": "array",
            "items": {
                "$ref":
"#/definitions/alpr:AlertVehicleImageType"
            }
        }
    }
},
"alpr:AlertsResponseType": {
    "type": "object",
    "properties": {
        "alpr:Alert": {
            "$ref": "#/definitions/alpr:AlertType"
        },
        "alpr:AlertSuspects": {
            "type": "array",
            "items": {
                "type": "object",
                "properties": {

```

```

        "alpr:PersonID": {
            "$ref": "#/definitions/niem-
xs:string"
        },
        "nc:Person": {
            "$ref":
"#/definitions/nc:PersonType"
        }
    }
},
    "alpr:AlertVictims": {
        "type": "array",
        "items": {
            "type": "object",
            "properties": {
                "alpr:PersonID": {
                    "$ref": "#/definitions/niem-
xs:string"
                },
                "nc:Person": {
                    "$ref":
"#/definitions/nc:PersonType"
                }
            }
        }
    },
    "alpr:AlertVehicles": {
        "type": "array",
        "items": {
            "type": "object",
            "properties": {
                "alpr:VehicleID": {
                    "$ref": "#/definitions/niem-
xs:string"
                }
            }
        }
    }
}

```

```

        },
        "nc:Vehicle": {
            "$ref":
"#/definitions/nc:VehicleType"
        }
    }
},
"alpr:AlertPosterImages": {
    "type": "array",
    "items": {
        "type": "object",
        "properties": {
            "nc:Binary": {
                "$ref":
"#/definitions/nc:BinaryType"
            }
        }
    }
}
},
"alpr:AlertType": {
    "type": "object",
    "properties": {
        "alpr:AlertID": {
            "$ref": "#/definitions/niem-xs:string"
        },
        "alpr:RecordType": {
            "$ref": "#/definitions/alpr:RecordTypeType"
        },
        "alpr:Shp": {
            "$ref": "#/definitions/alpr:RecordTypeType"
        },
    },

```

```
"j:OrganizationORIIdentification": {
    "$ref": "#/definitions/nc:IdentificationType"
},
"nc:Case": {
    "$ref": "#/definitions/nc:CaseType"
},
"nc:Organization": {
    "$ref": "#/definitions/nc:OrganizationType"
},
"nc:DateTime": {
    "$ref": "#/definitions/nc:TextType"
},
"nc:Location": {
    "$ref": "#/definitions/nc:LocationType"
},
"alpr:LastKnownLocation": {
    "$ref": "#/definitions/nc:LocationType"
},
"alpr:DirectionOfTravel": {
    "$ref": "#/definitions/nc:TextType"
},
"alpr:Circumstances": {
    "$ref": "#/definitions/nc:TextType"
},
"alpr:Authority": {
    "$ref": "#/definitions/nc:TextType"
},
"alpr:Signature": {
    "$ref": "#/definitions/nc:TextType"
},
"alpr:AddedBy": {
    "$ref": "#/definitions/nc:TextType"
},
```

```
"alpr:AddedWhen": {
    "$ref": "#/definitions/nc:DateTimeType"
},
"alpr:ModifiedBy": {
    "$ref": "#/definitions/nc:TextType"
},
"alpr:ModifiedWhen": {
    "$ref": "#/definitions/nc:DateTimeType"
},
"alpr:CancelReason": {
    "$ref": "#/definitions/nc:TextType"
},
"alpr:CancelDate": {
    "$ref": "#/definitions/nc:DateTimeType"
},
"alpr:Under72Hours": {
    "type": ["integer", "null"]
},
"alpr:Active": {
    "type": ["boolean", "null"]
},
"alpr:Officer": {
    "$ref": "#/definitions/nc:PersonType"
},
"j:Offense": {
    "$ref": "#/definitions/j:OffenseType"
},
"alpr:AlertNumber": {
    "$ref": "#/definitions/nc:TextType"
},
"alpr:TwitterID": {
    "$ref": "#/definitions/nc:TextType"
},
```

```

        "alpr:TwitterText": {
            "$ref": "#/definitions/nc:TextType"
        }
    },
    "nc:LocationType": {
        "type": "object",
        "properties": {
            "nc:Address": {
                "$ref": "#/definitions/nc:AddressType"
            }
        }
    },
    "nc:AddressType": {
        "type": "object",
        "properties": {
            "nc:AddressCityName": {
                "$ref": "#/definitions/nc:TextType"
            },
            "nc:AddressCountry": {
                "type": "object",
                "properties": {
                    "nc:CountryName": {
                        "$ref": "#/definitions/nc:TextType"
                    }
                }
            },
            "nc:AddressCountyName": {
                "$ref": "#/definitions/nc:TextType"
            },
            "nc:AddressStreet": {
                "$ref": "#/definitions/nc:StreetType"
            },
        },
    },

```

```

        "nc:AddressFullText": {
            "$ref": "#/definitions/nc:TextType"
        },
        "nc:AddressPostalCode": {
            "$ref": "#/definitions/nc:TextType"
        },
        "nc:AddressPostalExtensionCode": {
            "$ref": "#/definitions/nc:TextType"
        },
        "nc:AddressState": {
            "type": "object",
            "properties": {
                "nc:StateName": {
                    "$ref": "#/definitions/nc:TextType"
                }
            }
        }
    },
    "nc:StreetType": {
        "type": "object",
        "properties": {
            "nc:StreetFullText": {
                "$ref": "#/definitions/nc:TextType"
            },
            "nc:StreetName": {
                "$ref": "#/definitions/nc:TextType"
            },
            "nc:StreetNumberText": {
                "$ref": "#/definitions/nc:TextType"
            }
        }
    },

```

```

"nc:TelephoneNumberType": {
  "type": "object",
  "properties": {
    "nc:FullTelephoneNumber": {
      "$ref":
"#/definitions/nc:FullTelephoneNumberType"
    }
  }
},
"nc:FullTelephoneNumberType": {
  "type": "object",
  "properties": {
    "nc:TelephoneNumberFullID": {
      "$ref": "#/definitions/nc:TextType"
    },
    "nc:TelephoneNumberSuffixID": {
      "$ref": "#/definitions/nc:TextType"
    }
  }
},
"nc:OrganizationType": {
  "type": "object",
  "properties": {
    "nc:OrganizationIdentification": {
      "$ref": "#/definitions/nc:IdentificationType"
    },
    "nc:OrganizationName": {
      "$ref": "#/definitions/nc:TextType"
    },
    "alpr:AgencyTelephoneNumber": {
      "$ref": "#/definitions/nc:TelephoneNumberType"
    },
    "alpr:MediaPhoneNumber": {

```

```

        "$ref": "#/definitions/nc:TelephoneNumberType"
    },
    "alpr:OfficerCellPhoneNumber": {
        "$ref": "#/definitions/nc:TelephoneNumberType"
    }
},
"alpr:MulesResponseType": {
    "type": "object",
    "properties": {
        "alpr:RecordType": {
            "$ref": "#/definitions/alpr:RecordTypeType"
        },
        "j:OrganizationORIIdentification": {
            "$ref": "#/definitions/nc:IdentificationType"
        },
        "alpr:Shp": {
            "$ref": "#/definitions/alpr:RecordTypeType"
        },
        "j:ItemNCICIdentification": {
            "$ref": "#/definitions/nc:IdentificationType"
        },
        "nc:ActivityDate": {
            "$ref": "#/definitions/nc:DateType"
        },
        "nc:Vehicle": {
            "$ref": "#/definitions/nc:VehicleType"
        },
        "alpr:Charge": {
            "$ref": "#/definitions/alpr:ChargeType"
        },
        "nc:Activity": {
            "$ref": "#/definitions/nc:ActivityType"
        }
    }
}

```

```

        },
        "j:Subject": {
            "$ref": "#/definitions/j:SubjectType"
        }
    }
},
"j:SubjectType": {
    "type": "object",
    "properties": {
        "nc:RoleOfPerson": {
            "$ref": "#/definitions/nc:PersonType"
        }
    }
},
"nc:PersonType": {
    "type": "object",
    "properties": {
        "alpr:PersonAge": {
            "$ref": "#/definitions/nc:TextType"
        },
        "alpr:PersonAgeCalculated": {
            "$ref": "#/definitions/nc:TextType"
        },
        "nc:PersonBirthDate": {
            "$ref": "#/definitions/nc:DateType"
        },
        "nc:PersonRaceText": {
            "$ref": "#/definitions/nc:TextType"
        },
        "nc:PersonEyeColorText": {
            "$ref": "#/definitions/nc:TextType"
        },
        "nc:PersonHairColorText": {

```

```

        "$ref": "#/definitions/nc:TextType"
    },
    "nc:PersonHeightMeasure": {
        "$ref": "#/definitions/nc:LengthMeasureType"
    },
    "nc:PersonName": {
        "type": "object",
        "properties": {
            "nc:PersonFullName": {
                "$ref": "#/definitions/nc:TextType"
            },
            "nc:PersonGivenName": {
                "$ref": "#/definitions/nc:TextType"
            },
            "nc:PersonMaidenName": {
                "$ref": "#/definitions/nc:TextType"
            },
            "nc:PersonMiddleName": {
                "$ref": "#/definitions/nc:TextType"
            },
            "nc:PersonSurName": {
                "$ref": "#/definitions/nc:TextType"
            },
            "nc:PersonNameSuffixText": {
                "$ref": "#/definitions/nc:TextType"
            }
        }
    },
    "nc:PersonOtherIdentification": {
        "$ref": "#/definitions/nc:IdentificationType"
    },
    "nc:PersonSexCode": {
        "$ref": "#/definitions/niem-xs:string"
    }

```

```

    },
    "nc:PersonSSNIdentification": {
        "$ref": "#/definitions/nc:IdentificationType"
    },
    "nc:PersonWeightMeasure": {
        "$ref": "#/definitions/nc:WeightMeasureType"
    },
    "alpr:SubjectNotes": {
        "$ref": "#/definitions/nc:TextType"
    },
    "alpr:Clothing": {
        "$ref": "#/definitions/j:ClothingType"
    },
    "alpr:ArmedWith": {
        "$ref": "#/definitions/nc:TextType"
    },
    "alpr:IdentifyingFeatures": {
        "$ref": "#/definitions/nc:TextType"
    },
    "alpr:Cmc": {
        "$ref": "#/definitions/nc:TextType"
    },
    "alpr:Smt": {
        "$ref": "#/definitions/nc:TextType"
    },
    "j:Offense": {
        "$ref": "#/definitions/j:OffenseType"
    },
    "alpr:AddedBy": {
        "$ref": "#/definitions/nc:TextType"
    },
    "alpr:AddedWhen": {
        "$ref": "#/definitions/nc:DateTimeType"
    }

```

```

    },
    "alpr:ModifiedBy": {
        "$ref": "#/definitions/nc:TextType"
    },
    "alpr:ModifiedWhen": {
        "$ref": "#/definitions/nc:DateTimeType"
    }
}

},
"j:ClothingType": {
    "type": "object",
    "properties": {
        "j:ClothingCategoryText": {
            "$ref": "#/definitions/nc:TextType"
        },
        "j:ClothingColorText": {
            "$ref": "#/definitions/nc:TextType"
        },
        "j:ClothingDescriptionText": {
            "$ref": "#/definitions/nc:TextType"
        },
        "j:ClothingStyleText": {
            "$ref": "#/definitions/nc:TextType"
        }
    }
}

},
"nc:WeightMeasureType": {
    "type": "object",
    "properties": {
        "nc:MeasurePointValue": {
            "type": ["integer", "null"]
        },
        "nc:WeightUnitCode": {

```

```

        "$ref": "#/definitions/niem-xs:string"
    }
},
"required": ["nc:MeasurePointValue", "nc:WeightUnitCode"]
},
"nc:LengthMeasureType": {
    "type": "object",
    "properties": {
        "nc:MeasurePointValue": {
            "type": ["integer", "null"]
        },
        "nc:LengthUnitCode": {
            "$ref": "#/definitions/niem-xs:string"
        }
    },
    "required": ["nc:MeasurePointValue", "nc:LengthUnitCode"]
},
"nc:ActivityType": {
    "type": "object",
    "properties": {
        "nc:ActivityIdentification": {
            "$ref": "#/definitions/nc:IdentificationType"
        },
        "nc:ActivityCategoryText": {
            "$ref": "#/definitions/nc:TextType"
        }
    }
},
"nc:CaseType": {
    "type": "object",
    "properties": {
        "nc:CaseTrackingID": {
            "$ref": "#/definitions/niem-xs:string"

```

```

        },
        "alpr:CaseORI": {
            "$ref": "#/definitions/nc:IdentificationType"
        }
    }
},
"alpr:ChargeType": {
    "type": "object",
    "properties": {
        "j:Charge": {
            "$ref": "#/definitions/j:ChargeType"
        },
        "j:OriginalCharge": {
            "$ref": "#/definitions/j:ChargeType"
        },
        "alpr:ChargeExtradition": {
            "$ref": "#/definitions/alpr:ChargeExtradition"
        }
    }
},
"alpr:ChargeExtradition": {
    "type": "object",
    "properties": {
        "alpr:WarrantExtraditionLimitationCode": {
            "$ref": "#/definitions/nc:TextType"
        },
        "j:WarrantExtraditionLimitationText": {
            "$ref": "#/definitions/nc:TextType"
        }
    }
},
"j:ChargeType": {
    "type": "object",

```

```

    "properties": {
      "j:IdentificationJurisdiction": {
        "$ref": "#/definitions/nc:JurisdictionType"
      },
      "j:ChargeDescriptionText": {
        "$ref": "#/definitions/nc:TextType"
      }
    }
  },
  "alpr:NcicResponseType": {
    "type": "object",
    "properties": {
      "alpr:RecordType": {
        "$ref": "#/definitions/alpr:RecordTypeType"
      },
      "j:ItemNCICIdentification": {
        "$ref": "#/definitions/nc:IdentificationType"
      },
      "j:OrganizationORIIdentification": {
        "$ref": "#/definitions/nc:IdentificationType"
      },
      "nc:ActivityDate": {
        "$ref": "#/definitions/nc:DateType"
      },
      "nc:Vehicle": {
        "$ref": "#/definitions/nc:VehicleType"
      }
    }
  },
  "alpr:RecordTypeType": {
    "type": ["string", "null"]
  },
  "niem-xs:string": {

```

```

        "type": ["string", "null"]
    },
    "nc:TextType": {
        "type": ["string", "null"]
    },
    "nc:DateType": {
        "type": "object",
        "properties": {
            "nc:Date": {
                "$ref": "#/definitions/niem-xs:string"
            }
        }
    },
    "nc:DateTimeType": {
        "type": "object",
        "properties": {
            "nc:DateTime": {
                "$ref": "#/definitions/nc:TextType"
            }
        }
    },
    "nc:IdentificationType": {
        "type": "object",
        "properties": {
            "nc:IdentificationID": {
                "$ref": "#/definitions/niem-xs:string"
            },
            "nc:IdentificationCategoryText": {
                "$ref": "#/definitions/nc:TextType"
            }
        },
        "required": [ "nc:IdentificationID" ]
    },

```

```

    "j:ConveyanceRegistrationType": {
      "type": "object",
      "properties": {
        "j:ConveyanceRegistrationPlateIdentification": {
          "$ref":
"#/definitions/j:ConveyanceRegistrationPlateIdentificationType"
        }
      }
    },
    "j:ConveyanceRegistrationPlateIdentificationType": {
      "type": "object",
      "properties": {
        "nc:IdentificationCategoryDescriptionText": {
          "$ref": "#/definitions/nc:TextType"
        },
        "nc:IdentificationID": {
          "$ref": "#/definitions/niem-xs:string"
        },
        "nc:IdentificationJurisdiction": {
          "$ref": "#/definitions/nc:JurisdictionType"
        }
      }
    },
    "nc:JurisdictionType": {
      "type": "object",
      "properties": {
        "nc:JurisdictionDescriptionText": {
          "$ref": "#/definitions/nc:TextType"
        },
        "nc:JurisdictionIdentification": {
          "$ref":
"#/definitions/nc:JurisdictionIdentificationType"
        }
      }
    }
  }

```

```

},
"nc:JurisdictionIdentificationType": {
  "type": "object",
  "properties": {
    "nc:IdentificationID": {
      "$ref": "#/definitions/niem-xs:string"
    }
  }
},
"nc:VehicleType": {
  "type": "object",
  "properties": {
    "nc:ConveyanceColorPrimaryText": {
      "$ref": "#/definitions/nc:TextType"
    },
    "nc:ItemModelName": {
      "$ref": "#/definitions/nc:TextType"
    },
    "nc:ItemModelYearDate": {
      "$ref": "#/definitions/niem-xs:string"
    },
    "nc:ItemName": {
      "$ref": "#/definitions/nc:TextType"
    },
    "nc:ItemStyleText": {
      "$ref": "#/definitions/nc:TextType"
    },
    "nc:ItemVisibleID": {
      "$ref": "#/definitions/niem-xs:string"
    },
    "alpr:PartialPlate": {
      "type": ["boolean", "null"]
    }
  }
},

```

```

        "j:ConveyanceRegistration": {
            "$ref":
"#/definitions/j:ConveyanceRegistrationType"
        },
        "nc:VehicleIdentification": {
            "$ref": "#/definitions/nc:IdentificationType"
        },
        "alpr:DirectionOfTravel": {
            "$ref": "#/definitions/nc:TextType"
        },
        "alpr:AddedBy": {
            "$ref": "#/definitions/nc:TextType"
        },
        "alpr:AddedWhen": {
            "$ref": "#/definitions/nc:DateTimeType"
        },
        "alpr:ModifiedBy": {
            "$ref": "#/definitions/nc:TextType"
        },
        "alpr:ModifiedWhen": {
            "$ref": "#/definitions/nc:DateTimeType"
        }
    }
},
"nc:BinaryType": {
    "type": "object",
    "properties": {
        "nc:BinaryID": {
            "$ref": "#/definitions/niem-xs:string"
        },
        "nc:BinaryLocationText": {
            "$ref": "#/definitions/nc:TextType"
        }
    },

```

```

        "nc:BinaryCategoryText": {
            "$ref": "#/definitions/nc:TextType"
        },
        "nc:BinaryBase64Object": {
            "$ref": "#/definitions/niem-xs:string"
        },
        "nc:BinaryCaptureDate": {
            "$ref": "#/definitions/nc:DateTimeType"
        },
        "nc:BinaryDescriptionText": {
            "$ref": "#/definitions/nc:TextType"
        },
        "nc:BinaryFormatText": {
            "$ref": "#/definitions/nc:TextType"
        },
        "alpr:AddedBy": {
            "$ref": "#/definitions/nc:TextType"
        },
        "alpr:AddedWhen": {
            "$ref": "#/definitions/nc:DateTimeType"
        },
        "alpr:ModifiedBy": {
            "$ref": "#/definitions/nc:TextType"
        },
        "alpr:ModifiedWhen": {
            "$ref": "#/definitions/nc:DateTimeType"
        }
    },
    "alpr:AlertPersonImageType": {
        "type": "object",
        "properties": {
            "alpr:PersonID": {

```

```

        "$ref": "#/definitions/niem-xs:string"
      },
      "nc:Binary": {
        "$ref": "#/definitions/nc:BinaryType"
      }
    }
  },
  "alpr:AlertVehicleImageType": {
    "type": "object",
    "properties": {
      "alpr:VehicleID": {
        "$ref": "#/definitions/niem-xs:string"
      },
      "nc:Binary": {
        "$ref": "#/definitions/nc:BinaryType"
      }
    }
  },
  "j:OffenseType": {
    "type": "object",
    "properties": {
      "j:OffenseCategoryText": {
        "$ref": "#/definitions/nc:TextType"
      },
      "j:OffenseName": {
        "$ref": "#/definitions/nc:TextType"
      }
    }
  }
}

```

Each response contains either an array of Alerts objects, NCIC objects, and MULES objects, or arrays of AlertPerson and AlertVehicle images. During service fulfillment, if the API DB processing nodes don't find

a match on the supplied plate value in any one of the tables associated with Alerts, NCIC, or MULES, its corresponding output array will be empty.

For the /lpq_all,/lpq_test_all, /lpq_ncic, /lpq_mules, and /lpq_alerts endpoints, the JSON response data is a gzip file named alerts.json. For the /lpq and the /lpq_alert_id endpoint, the API returns JSON response data in the message body.

Questions:

Further questions about the exchange and how to participate should be directed to:

The Missouri State Highway Patrol
Criminal Justice Information Services Division
Enterprise System Administration Unit
mshphelpdesk@mshp.dps.mo.gov