



# PMIX 3.0: Comprehensive Request Schema Proposal

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## 2 Background

The Prescription Monitoring Information eXchange (PMIX) is a standards organization sponsored by the Bureau of Justice Assistance. Its purpose is to support the sharing of Prescription Drug Monitoring Program data among PDMP organizations and their stakeholders by establishing and maintaining the PMIX National Architecture and related guidelines, policies and standards to minimize the cost and complexity of sharing PDMP data across organizational, vendor, geographic and operational boundaries; enable secure, trusted exchanges of PDMP data and promote consistency among PDMPs.

### 2.1 PMIX National Architecture

The PMIX National Architecture is a nationwide framework designed to enable standards-based sharing of information between Prescription Drug Monitoring Program (PDMP) organizations and their stakeholders.

### 2.2 Guiding Principles

The Guiding Principles of the PMIX National Architecture foster prescription drug information sharing across all Federal, State, Tribal and approved third party entities in accordance with the PMIX National Architecture are:

- Protect state's full rights and control of Data Ownership.
- Promote the adoption of security standards that protects the confidentiality, integrity, and availability of the data, in transit and at rest.
- Promote uniformity in the selection of a limited set of approved common data standards.
- Promote a standard to which IT solution providers are held that ensures the best value products and/or services to PDMP participating states, while maintaining the public's trust and fulfilling public policy objectives.

## 3 Standards Implementation

### 3.1 Audience

This document applies to all entities involved in the exchange of prescription data between Prescription Drug Monitoring programs and their stakeholder organizations as well as data sharing hubs, and other exchange partners or intermediaries when utilizing the PMIX Architecture to exchange or map the exchange to another data sharing standard.

### 3.2 Foundation of the PMIX National Architecture

The PMIX Architecture is based on the National Information Exchange Model (NIEM). The National Information Exchange Model (NIEM) is a common vocabulary that enables efficient information exchange across diverse public and private organizations. NIEM connects communities of people who share a common need to exchange information in

order to advance their mission. In addition to NIEM, PMIX also synchronizes its information exchange infrastructure with the American Society for Automation in Pharmacy (ASAP) whose reporting standard is widely used by Prescription Drug Monitoring programs. For more information on these programs, please see their websites: <https://www.niem.gov/> and <https://www.asapnet.org/>.

## 4 Standards Proposal

### 4.1 Background

As a part of its 2018 – 2019 organizational goals, the Executive Committee of the PMIX Standards Organization directed its Operations and Technical Architecture subcommittees to review and propose changes to the PMP Prescription Request Schema including but not limited to the following areas:

- Updating the elements to the latest version of NIEM
- Synchronizing where applicable with the latest version of ASAP

The sample below illustrates the proposed new schema. The actual xsd file is available upon request for review. Outlined below is a summary of the changes made to the schema. The latest approved versions of the schema are available on the PMIX website for comparison (<https://www.pdmpassist.org/PMIX/Standards>).

### 4.2 Proposed Schema Sample

```
<?xml version="1.0" encoding="UTF-8"?>
<!--Sample XML file generated by XMLSpy v2011 (x64) (http://www.altova.com)-->
<pmix:PMPRequest xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://pmixpmp.org/niem/4.0/
  ../../schema/information/exchange/PMIX_NIEM_4.0_Request_Schema.xsd"
  xmlns:pmix="http://pmixpmp.org/niem/4.0/"
  xmlns:s="http://release.niem.gov/niem/structures/4.0/"
  xmlns:nc="http://release.niem.gov/niem/niem-core/4.0/"
  xmlns:j="http://release.niem.gov/niem/domains/jxdm/6.2/"
  xmlns:pmp="http://pmixpmp.org/niem/4.0/extension">
  <pmp:RequestPrescriptionDateRange>
    <pmp:RequestPrescriptionDateRangeBegin>1967-08-13</pmp:RequestPrescriptionDateRangeBegin>
    <pmp:RequestPrescriptionDateRangeEnd>1967-08-13</pmp:RequestPrescriptionDateRangeEnd>
  </pmp:RequestPrescriptionDateRange>
  <pmp:RequestPatient>
    <nc:PersonBirthDate>
      <nc:Date>1967-08-13</nc:Date>
    </nc:PersonBirthDate>
    <nc:PersonName>
      <nc:PersonGivenName>String</nc:PersonGivenName>
      <nc:PersonMiddleName>String</nc:PersonMiddleName>
      <nc:PersonSurName>String</nc:PersonSurName>
      <nc:PersonNameSuffixText>String</nc:PersonNameSuffixText>
    </nc:PersonName>
    <j:PersonSexCode>U</j:PersonSexCode>
    <nc:PersonSSNIidentification>
      <nc:IdentificationID>String</nc:IdentificationID>
      <nc:IdentificationJurisdiction>
```

```

        <nc:JurisdictionText>String</nc:JurisdictionText>
    </nc:IdentificationJurisdiction>
</nc:PersonSSNIdentification>
<pmp:PersonPrimaryContactInformation>
    <nc:ContactTelephoneNumber>
        <nc:FullTelephoneNumber>
            <nc:TelephoneNumberFullID>String</nc:TelephoneNumberFullID>
        </nc:FullTelephoneNumber>
    </nc:ContactTelephoneNumber>
    <nc:ContactMailingAddress>
        <nc:LocationStreet>
            <nc:StreetFullText>String</nc:StreetFullText>
        </nc:LocationStreet>
        <nc:LocationCityName>String</nc:LocationCityName>
        <nc:LocationState>
            <nc:LocationStateUSPostalServiceCode>NV</nc:LocationStateUSPostalServiceCode>
        </nc:LocationState>
        <nc:LocationPostalCode>String</nc:LocationPostalCode>
        <nc:LocationPostalExtensionCode>String</nc:LocationPostalExtensionCode>
    </nc:ContactMailingAddress>
</pmp:PersonPrimaryContactInformation>
<pmp:PersonStateIssuedIdentifier>
    <nc:IdentificationID>String</nc:IdentificationID>
    <nc:IdentificationJurisdiction>
        <nc:JurisdictionText>String</nc:JurisdictionText>
    </nc:IdentificationJurisdiction>
</pmp:PersonStateIssuedIdentifier>
<pmp:SpeciesCode>01</pmp:SpeciesCode>
<pmp:PatientLocationCode>01</pmp:PatientLocationCode>
<pmp:PatientNameOfAnimalText>String</pmp:PatientNameOfAnimalText>
</pmp:RequestPatient>
</pmix:PMPRequest>

```

## 4.3 Summary of Changes

### 4.3.1 Migrate to NIEM 4.0

The definition of any field prefaced by nc: comes from the field definition now supported in NIEM 4.0. In addition, the following fields were removed from the schemas:

- **nc:PersonNamePrefixText**
- **nc:PersonFullName**

## 5 Implementation

This standard will replace the existing Comprehensive Request schema. The proposed implementation timeline is:

- Available for use: 9/1/2021
- Adoption by all states: 3/1/2022