ASAP 4.2 Specifications

The information on the following pages contains the definitions for the specific contents required of uploaded records in the American Society for Automation in Pharmacy (ASAP) format to comply with E-FORCSE requirements.

The following elements are used in each upload file:

- **Segment Identifier** – indicates the beginning of a new segment, for example, *PHA*.
- **Data Delimiter** – character used to separate segments and the data elements within a segment, for example, an asterisk (*).

  Each completed field should be followed by an asterisk, and each blank field should contain a single asterisk.

  If the last field in the segment is blank, it should contain an asterisk and a tilde (~).

  Note: The Transaction Header is the only segment that has a Data Segment Terminator field built in.
- **Segment Terminator** – character used to mark the end of a segment, for example, the tilde (~).
- **Field Usage**
  - R = Required by ASAP
  - RR = Required by E-FORCSE
  - S = Situational (not required; however, supply if available)

  Both “R” and “RR” fields must be reported.

Note: For more information regarding ASAP 4.2 specifications, contact the American Society for Automation in Pharmacy at www.asapnet.org for the full *Implementation Guide for the ASAP Standard for Prescription-Monitoring Programs*. This guide includes field lengths, acceptable attributes, and examples.

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Segment	Field ID	Field Name	Field Usage
TH: Transaction Header Required segment; used to indicate the start of a transaction. It also assigns the data element separator, segment terminator, and control number. This is a required segment.			
	TH01	**Version/Release Number** Code uniquely identifying the transaction. Format = xx.x	R
	TH02	**Transaction Control Number** Sender assigned code uniquely identifying a transaction.	R
	TH03	**Transaction Type** Identifies the purpose of initiating the transaction. • 01 Send/Request Transaction • 02 Acknowledgement (used in Response only) • 03 Error Receiving (used in Response only) • 04 Void (used to void a specific Rx in a real-time transmission or an entire batch that has been transmitted)	R
	TH04	**Response ID** Contains the Transaction Control Number of a transaction that initiated the transaction. Required in response transaction only.	S
	TH05	**Creation Date** Date the transaction was created. Format: CCYYMMDD.	R
	TH06	**Creation Time** Time the transaction was created. Format: HHMMSS or HHMM.	R
	TH07	**File Type** • P = Production • T = Test	R
	TH08	**Routing Number** Reserved for real-time transmissions that go through a network switch to indicate, if necessary, the specific state PMP the transaction should be routed to.	S
	TH09	**Segment Terminator Character** This terminates the TH segment and sets the actual value of the data segment terminator for the entire transaction.	R
IS: Information Source Required segment; used to convey the name and identification numbers of the entity supplying the information.			
	IS01	**Unique Information Source ID** Reference number or identification number. (Example: phone number)	R
	IS02	**Information Source Entity Name** Entity name of the Information Source.	R
	IS03	**Message** Free-form text message.	S

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Segment	Field ID	Field Name	Field Usage
PHA: Pharmacy Header Required segment; used to identify the pharmacy.			
	PHA01	**National Provider Identifier (NPI)** Identifier assigned to the pharmacy by CMS.	S
	PHA02	**NCPDP/NABP Provider ID** Identifier assigned to pharmacy by the National Council for Prescription Drug Programs.	S
	PHA03	**DEA Number** Identifier assigned to the pharmacy by the Drug Enforcement Administration.	RR
	PHA04	**Pharmacy or Dispensing Prescriber Name** Free-form name of the pharmacy or dispensing prescriber's name	S
	PHA05	**Address Information – 1** Free-form text for address information.	S
	PHA06	**Address Information – 2** Free-form text for address information.	S
	PHA07	**City Address** Free-form text for city name.	S
	PHA08	**State Address** U.S. Postal Service state code.	S
	PHA09	**ZIP Code Address** U.S. Postal Service ZIP Code.	S
	PHA10	**Phone Number** Complete phone number including area code.	S
	PHA11	**Contact Name** Free-form name.	S
	PHA12	**Chain Site ID** Store number assigned by the chain to the pharmacy location. Used when PMP needs to identify the specific pharmacy from which information is required.	S
PAT: Patient Information Required segment; used to report the patient's name and basic information as contained in the pharmacy record.			
	PAT01	**ID Qualifier of Patient Identifier** Code identifying the jurisdiction that issues the ID in PAT03.	S

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Segment	Field ID	Field Name	Field Usage
	PAT02	**ID Qualifier** Code to identify the type of ID in PAT03. If PAT02 is used, PAT03 is required. • 01 Military ID • 02 State Issued ID • 03 Unique System ID • 04 Permanent Resident Card (Green Card) • 05 Passport ID • 06 Driver's License ID • 07 Social Security Number • 08 Tribal ID • 99 Other (agreed upon ID)	S
	PAT03	**ID of Patient** Identification number for the patient as indicated in PAT02. An example would be the driver's license number.	S
	PAT04	**ID Qualifier of Additional Patient Identifier** Code identifying the jurisdiction that issues the ID in PAT06. Used if the PMP requires such identification.	S
	PAT05	**Additional Patient ID Qualifier** Code to identify the type of ID in PAT06 if the PMP requires a second identifier. If PAT05 is used, PAT06 is required. • 01 Military ID • 02 State Issued ID • 03 Unique System ID • 04 Permanent Resident Card (Green Card) • 05 Passport ID • 06 Driver's License ID • 07 Social Security Number • 08 Tribal ID • 99 Other (agreed upon ID)	S
	PAT06	**Additional ID** Identification that might be required by the PMP to further identify the individual. An example might be in that PAT03 driver's license is required and in PAT06 Social Security number is also required.	S
	PAT07	**Last Name** Patient's last name.	RR
	PAT08	**First Name** Patient's first name.	RR
	PAT09	**Middle Name** Patient's middle name or initial if available.	S

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Segment	Field ID	Field Name	Field Usage
	PAT10	**Name Prefix** Patient's name prefix such as Mr. or Dr.	S
	PAT11	**Name Suffix** Patient's name suffix such as Jr. or the III.	S
	PAT12	**Address Information – 1** Free-form text for street address information.	RR
	PAT13	**Address Information – 2** Free-form text for additional address information.	S
	PAT14	**City Address** Free-form text for city name.	RR
	PAT15	**State Address** U.S. Postal Service state code. **Note**: Field has been sized to handle international patients not residing in the U.S.	RR
	PAT16	**ZIP Code Address** U.S. Postal Service ZIP code. Populate with zeros if patient address is outside the U.S.	RR
	PAT17	**Phone Number** Complete phone number including area code.	S
	PAT18	**Date of Birth** Date patient was born. Format: CCYYMMDD.	RR
	PAT19	**Gender Code** Code indicating the sex of the patient. • F Female • M Male • U Unknown	RR
	PAT20	**Species Code** Used if required by the PMP to differentiate a prescription for an individual from one prescribed for an animal. • 01 Human • 02 Veterinary Patient	S

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Segment	Field ID	Field Name	Field Usage
	PAT21	**Patient Location Code** Code indicating where patient is located when receiving pharmacy services. • 01 Home • 02 Intermediary Care • 03 Nursing Home • 04 Long-Term/Extended Care • 05 Rest Home • 06 Boarding Home • 07 Skilled-Care Facility • 08 Sub-Acute Care Facility • 09 Acute Care Facility • 10 Outpatient • 11 Hospice • 98 Unknown • 99 Other	S
	PAT22	**Country of Non-U.S. Resident** Used when the patient's address is a foreign country and PAT12 through PAT16 are left blank.	S
	PAT23	**Name of Animal** Used if required by the PMP for prescriptions written by a veterinarian and the pharmacist has access to this information at the time of dispensing the prescription.	S
DSP: Dispensing Record Required segment; used to identify the basic components of a dispensing of a given prescription order including the date and quantity.			
	DSP01	**Reporting Status** DSP01 requires one of the following codes, and an empty or blank field no longer indicates a new prescription transaction: • 00 New Record (indicates a new prescription dispensing transaction) • 01 Revise (indicates that one or more data element values in a previously submitted transaction are being revised) • 02 Void (message to the PMP to remove the original prescription transaction from its data, or to mark the record as invalid or to be ignored).	R
	DSP02	**Prescription Number** Serial number assigned to the prescription by the pharmacy.	RR
	DSP03	**Date Written** Date the prescription was written (authorized). Format: CCYYMMDD	RR

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Segment	Field ID	Field Name	Field Usage
	DSP04	**Refills Authorized** The number of refills authorized by the prescriber.	R
	DSP05	**Date Filled** Date prescription was filled. Format: CCYYMMDD	RR
	DSP06	**Refill Number** Number of the fill of the prescription. 0 indicates New Rx; 01-99 is the refill number.	RR
	DSP07	**Product ID Qualifier** Used to identify the type of product ID contained in DSP08. • 01 NDC • 06 Compound (indicates a compound; if used, the CDI segment becomes a required segment)	R
	DSP08	**Product ID** Full product identification as indicated in DSP07, including leading zeros without punctuation.	RR
	DSP09	**Quantity Dispensed** Number of metric units dispensed in metric decimal format. Example: 2.5 **Note**: For compounds show the first quantity in CDI04.	RR
	DSP10	**Days Supply** Estimated number of days the medication will last.	R
	DSP11	**Drug Dosage Units Code** Identifies the unit of measure for the quantity dispensed in DSP09. • 01 Each • 02 Milliliters (ml) • 03 Grams (gm)	S
	DSP12	**Transmission Form of Rx Origin Code** Code indicating how the pharmacy received the prescription. • 01 Written Prescription • 02 Telephone Prescription • 03 Telephone Emergency Prescription • 04 Fax Prescription • 05 Electronic Prescription • 99 Other	S

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Segment	Field ID	Field Name	Field Usage
	DSP13	**Partial Fill Indicator** Used when the quantity dispensed (DSP09) is less than the quantity prescribed. • 00 Not a Partial Fill • 01 First Partial Fill **Note**: For each additional fill (for a specific prescription), increment by "1"; for example, the second partial fill for a prescription would be reported as "02", up to a maximum of "99".	S
	DSP14	**Pharmacist National Provider Identifier (NPI)** Identifier assigned to the pharmacist by CMS. This number can be used to identify the pharmacist dispensing the medication.	S
	DSP15	**Pharmacist State License Number** This data element can be used to identify the pharmacist dispensing the medication. Assigned to the pharmacist by the State Licensing Board.	S
	DSP16	**Classification Code for Payment Type** Code identifying the type of payment, i.e. how it was paid for. • 01 Private Pay • 02 Medicaid • 03 Medicare • 04 Commercial Insurance • 05 Military Installations and VA • 06 Workers' Compensation • 07 Indian Nations • 99 Other	RR
	DSP17	**Date Sold** Usage of this field depends on the pharmacy having a point-of-sale system that is integrated with the pharmacy management system to allow a bidirectional flow of information.	S
	DSP18	**RxNorm Product Qualifier** • 01 Semantic Clinical Drug (SCD) • 02 Semantic Branded Drug (SBD) • 03 Generic Package (GPCK) • 04 Branded Package (BPCK) **Note**: DSP18 and DSP19 are placeholder fields pending RxNorm becoming an industry standard and should not be required until such time.	S
	DSP19	**RxNorm Code** Used for electronic prescriptions to capture the prescribed drug product identification. **Note**: DSP18 and DSP19 are placeholder fields pending RxNorm becoming an industry standard and should not be required until such time.	S

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Segment	Field ID	Field Name	Field Usage
	DSP20	**Electronic Prescription Reference Number** Used to provide an audit trail for electronic prescriptions. **Note**: DSP20 and DSP21 should be reported as a pair to the prescription drug monitoring program, and each program decides which one, if not both, it decides to capture.	S
	DSP21	**Electronic Prescription Order Number** **Note**: DSP20 and DSP21 should be reported as a pair to the prescription drug monitoring program, and each program decides which one, if not both, it decides to capture.	S
PRE: Prescriber Information Required segment; used to identify the prescriber of the prescription.			
	PRE01	**National Provider Identifier (NPI)** Identifier assigned to the prescriber by CMS.	S
	PRE02	**DEA Number** Identifying number assigned to a prescriber or an institution by the Drug Enforcement Administration (DEA).	RR
	PRE03	**DEA Number Suffix** Identifying number assigned to a prescriber by an institution when the institution's number is used as the DEA number.	S
	PRE04	**Prescriber State License Number** Identification assigned to the Prescriber by the State Licensing Board.	S
	PRE05	**Last Name** Prescriber's last name.	RR
	PRE06	**First Name** Prescriber's first name.	RR
	PRE07	**Middle Name** Prescriber's middle name or initial.	S
	PRE08	**Phone Number**	S
CDI: Compound Drug Ingredient Detail Use of this segment is situation; required when medication dispensed is a compound and one of the ingredients is a PMP reporting drug. If more than one ingredient is for a prescription-monitoring program reporting drug, then this would be incremented by one for each compound ingredient being reported.			
	CDI01	**Compound Drug Ingredient Sequence Number** First reportable ingredient is 1; each additional reportable ingredient is increment by 1.	R

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Segment	Field ID	Field Name	Field Usage
	CDI02	**Product ID Qualifier** Code to identify the type of product ID contained in CDI03. • 01 NDC • 02 UPC • 03 HRI • 04 UPN • 05 DIN • 06 Compound (this code is not used in this segment)	R
	CDI03	**Product ID** Full product identification as indicated in CDI02, including leading zeros without punctuation.	R
	CDI04	**Compound Ingredient Quantity** Metric decimal quantity of the ingredient identified in CDI03. Example: 2.5	R
	CDI05	**Compound Drug Dosage Units Code** Identifies the unit of measure for the quantity dispensed in CDI04. • 01 Each (used to report as package) • 02 Milliliters (ml) (for liters; adjust to the decimal milliliter equivalent) • 03 Grams (gm) (for milligrams; adjust to the decimal gram equivalent)	S
AIR: Additional Information Reporting Use of this segment is situation; used when state-issued serialized Rx pads are used, the state requires information on the person dropping off or picking up the prescription, or for data elements not included in other detail segments. **Note**: If this segment is used, at least one of the data elements (fields) will be required.			
	AIR01	**State Issuing Rx Serial Number** U.S.P.S. state code of state that issued serialized prescription blank. This is required if AIR02 is used.	S
	AIR02	**State Issued Rx Serial Number** Number assigned to state issued serialized prescription blank.	S
	AIR03	**ID Issuing Jurisdiction** Code identifying the jurisdiction that issues the ID in AIR05.	S

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Segment	Field ID	Field Name	Field Usage
	AIR04	**ID Qualifier of Person Dropping Off or Picking Up Rx** Used to identify the type of ID contained in AIR05 for person dropping off or picking up the prescription. • 01 Military ID • 02 State Issued ID • 03 Unique System ID • 04 Permanent Resident Card (Green Card) • 05 Passport ID • 06 Driver's License ID • 07 Social Security Number • 08 Tribal ID • 99 Other (agreed upon ID)	S
	AIR05	**ID of Person Dropping Off or Picking Up Rx** ID number of patient or person picking up or dropping off the prescription.	S
	AIR06	**Relationship of Person Dropping Off or Picking Up Rx** Code indicating the relationship of the person. • 01 Patient • 02 Parent/Legal Guardian • 03 Spouse • 04 Caregiver • 99 Other	S
	AIR07	**Last Name of Person Dropping Off or Picking Up Rx** Last name of person picking up the prescription.	S
	AIR08	**First Name of Person Dropping Off or Picking Up Rx** First name of person picking up the prescription.	S
	AIR09	**Last Name or Initials of Pharmacist** Last name or initials of pharmacist dispensing the medication.	S
	AIR10	**First Name of Pharmacist** First name of pharmacist dispensing the medication.	S
	AIR11	**Dropping Off/Picking Up Identifier Qualifier** Additional qualifier for the ID contained in AIR05 • 01 Person Dropping Off • 02 Person Picking Up • 98 Unknown/Not Applicable **Note**: Both 01 and 02 cannot be required by a prescription drug monitoring program.	S

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Segment	Field ID	Field Name	Field Usage
TP: Pharmacy Trailer Required segment; used to identify the end of data for a given pharmacy and provide the count of the total number of detail segments reported for the pharmacy, including the PHA and TP segment.			
	TP01	**Detail Segment Count** Number of detail segments included for the pharmacy including the pharmacy header (PHA) including the pharmacy trailer (TP) segments.	R
TT: Transaction Trailer Required segment; used to indicate the end of the transaction and provide the count of the total number of segments included in the transaction.			
	TT01	**Transaction Control Number** Identifying control number that must be unique. Assigned by the originator of the transaction. Must match the number in TH02.	R
	TT02	**Segment Count** Total number of segments included in the transaction including the header and trailer segments.	R

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