**Cabinet for Health and Family Services (CHFS) Standards:**

**Category: 4000 Data Domain**

[**4350**](#a010007) **- Enterprise Messaging Standards**

**Definition:**

As per COT #4350:

Supports the interchange of information between multiple systems and applications; includes verification that transmitted data was received unaltered.

**Approved Standard(s) for New Applications:**

As per COT #4350:

Electronic data interchange (EDI) is the secure electronic communication of business transactions, such as purchase orders, confirmations, invoices, and other data between organizations. EDI may be used to submit data to a state agency in a standard, prescribed format, with translation software required to complete the communication. Value added networks (VANs) act as third parties to provide EDI services that enable organizations with different equipment to connect. The EDI format chosen must provide proper security controls to protect the Confidentiality and integrity of the data during transmission.

The two approved standards are:

ANSI ASC X12

UN/EDIFACT

The ANSI ASC X12 EDI standard defines the data structure and content for business transactions transmitted between computer applications. The United Nations Rules for Electronic Data Interchange For Administration, Commerce and Transport (UN/EDIFACT) is a set of internationally agreed upon standards, directories and guidelines for the electronic interchange of structured data that relate, in particular, to trade in goods and services.

**Approved Product(s) for New Applications:**

Microsoft BizTalk

Azure Integration Services

**Justification/Comments:**

The cabinet has decided to use Microsoft BizTalk as the standard for complex electronic data exchange between systems. This technology was chosen for its robustness, its ability to track information, and its ability to transform one system’s data to match the format for another system’s data. Most of the existing development resources within the cabinet are Microsoft resources. Choosing Microsoft BizTalk allows effective use of these resources as BizTalk also has been designed to allow for rapid development inside of the Visual Studio IDE. For these reasons, the cabinet has chosen Microsoft BizTalk as the cabinet standard.Cabinet is also considering other tools for EDI transactions.

The approved messaging standards are:

* ANSI ASC X12: The ANSI ASC X12 EDI standard defines the data structure and content for business transactions transmitted between computer applications.
* UN/EDIFACT: The United Nations Rules for Electronic Data Interchange For Administration, Commerce and Transport (UN/EDIFACT) is a set of internationally agreed upon standards, directories and guidelines for the electronic interchange of structured data that relate, in particular, to trade in goods and services.
* NCPDP: The National Council for Prescription Drug Programs (NCPDP) produces standards that ensure consistent implementation throughout the industry to be used between pharmacies and processors.
* HL7: Health Level Seven International (HL7) is an ANSI-accredited standards developing organization dedicated to providing a comprehensive framework and related standards for the exchange, integration, sharing, and retrieval of electronic health information that supports clinical practice and the management, delivery and evaluation of health services. The following standards may be utilized from HL7:
	+ Version 2.x Messaging Standard – an interoperability specification for health and medical transactions
	+ Version 3 Messaging Standard – an interoperability specification for health and medical transactions
	+ Clinical Document Architecture (CDA) – an exchange model for clinical documents, based on HL7 Version 3
	+ Structured Product Labeling (SPL) – the published information that accompanies a medicine, based on HL7 Version 3.
	+ Clinical Context Object Workgroup (CCOW) – an interoperability specification for the visual integration of user applications.
	+ Fast Healthcare Interoperability Resources (FHIR) – a standard for the exchange of resources. An implementation guide needs to be developed for FHIR profiles to be utilized within CHFS.

The Prescription Drug Monitoring Program (PDMP) utilizes the following messaging standards:

* PMIX 2.0: The Prescription Monitoring Information eXchange (PMIX) standard supports the sharing of PDMP data among PDMP organizations.
* ASAP 4.2B – American Society for Automation in Pharmacy (ASAP) publishes standards for a variety of pharmacy information needs including data utilized to report drugs dispensed to PDMPs.

**Exceptions:**

Any exceptions to this standard must follow the procedures established in CHFS IT Policy #070.203.

**Review Cycle:**

Annually

**Timeline:**

Last reviewed: 9/11/23

Next review: 4/1/24

**Cross Reference:**

CHFS Standard #8000 – Applications Development Domain

COT Standard #4350 – Electronic Commerce-Electronic Data Interchange (EDI)

**Link to all COT Software Domain Standards:**

[KITS\_Report.pdf (ky.gov)](https://cgp.ky.gov/sites/COTPUBDOCS/Standards/KITS_Report.pdf)

**Link to all CHFS IT Standards:**

[CHFS IT Standards - Cabinet for Health and Family Services (ky.gov)](https://chfs.ky.gov/agencies/os/oats/Pages/itstandards.aspx)

**Link to all CHFS IT Policies:**

[CHFS IT Policies - Cabinet for Health and Family Services (ky.gov)](https://chfs.ky.gov/agencies/os/oats/Pages/ITpolicies.aspx)