

Accredited Standards Committee X12

Delivering Global Business Process Interoperability and Innovation

- » Organize information relevant to your business needs
- » Expand markets through standardized exchanges
- » Advance convergence and interoperability across vertical and horizontal markets

CICA – Context Inspired Component Architecture

Multi-layered architecture to transform data into meaningful business information

ASC X12 is pleased to offer a revolutionary approach to producing standards. CICA, X12's Context Inspired Component Architecture, is a message design methodology created to help resolve the costly proliferation of differing and incompatible XML messages used for business-to-business data exchange. CICA gives developers easy access to reusable components that can be used to construct interface standards and satisfy common business requirements and industry-specific needs.

Context Inspired

X12 has defined a flexible set of semantic components that can be reused to accommodate any number of business processes.

CICA is the result of years of collaborative development by business process and technical experts from multiple vertical industries. The result of their efforts is a flexible architecture populated with an ever-growing collection of reusable components designed to fulfill intra- and cross-industry data interchange needs. CICA is a syntax-neutral architecture, which supports business content and implementation information. CICA messages ("documents") can currently be expressed as XML and will, in the future, support additional formats such as X12's EDI syntax. CICA message definitions will also be expressed in RDF (Resource Description Framework) and OWL, a Web Ontology Language.

CICA enhances message reusability and interoperability and supports future markup languages and other interchange standards not yet developed or used in today's business operations.

Easy to Use, Accessible Data

The CICA infrastructure

- » Allows you to manage documents and collect past artifacts
- » Aggregates data from multiple sources
- » Interacts with commercially-available tools

CICA's reusable, syntax-neutral message components are maintained in a central data store that supports a variety of functions including: data entry and maintenance, data retrieval (from full message structure to individual components), flexible reporting capabilities for development support, and end-user documents including XML schemas and user-friendly reference guides.

Complementing the CICA data store is the X12 CICA Metadata Interchange Format (CICA-MIF). The CICA-MIF is a structured guideline for bi-directional data exchange between X12 development tools, the central data store, and other

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technology providers' software that supports the interchange format. This XML schema will enable X12 developers to use world-class, commercial, off-the-shelf tools to develop message standards for submission into the CICA database.

X12 CICA Messages Available as XML Schemas

Visit www.X12.org to obtain the latest X12 XML schemas, based on CICA, available as a downloadable file and for runtime validation for such documents as:

X12F Finance

- » ACH CCD
- » Line Item Detail Generic Invoice
- » PCard American Express Payment
- » PCard MasterCard Payment
- » PCard VISA Payment
- » STP Payment With Remittance

X12G Government

- » DoD Application Response
- » DoD Dual Inventory Adjustment
- » DoD Item Receipt
- » DoD Material Issue
- » DoD Physical Inventory Adjustment
- » Material Receipt Acknowledgement
- » Requisition

X12I Transportation

- » Barge Invoice
- » Barge Service Order
- » Barge Service Order Response
- » Barge Status
- » Boat Status
- » Tow Status
- » Transportation Empty Car Release - Rail Request
- » Transportation Empty Car Release - Rail Response
- » Transportation Equipment Available List - Rail Request

Benefits of CICA

- » Supports the addition of new capabilities through CICA's multi-layered architecture and implementation content that can be tailored to each specific business transaction
- » Increases profits and eliminates expensive, time-consuming processes of creating new XML messages from scratch every time you implement a new message or start trading with a new partner
- » Provides maximum flexibility that enables you to perform business across industry boundaries

X12 enhances and simplifies data exchange processes from anywhere in an organization to anywhere in the world.

X12I Transportation (con't)

- » Transportation Equipment Available List - Rail Response
- » Transportation Equipment Release Out - Rail Request
- » Transportation Equipment Release Out - Rail Response
- » Transportation Freight Invoice
- » Transportation Order In - Rail Request
- » Transportation Order In - Rail Response
- » Transportation Price Distribution - Rail
- » Transportation Status - General Use
- » Transportation Status - General Use Request
- » Transportation Status - Small Package Use

X12N Insurance

- » Auto Insurance Notification
- » Coverage Request
- » Coverage Response

About ASC X12

The Accredited Standards Committee (ASC) X12, chartered by the American National Standards Institute (ANSI) in 1979, develops electronic data interchange (EDI) standards and related documents for national and global markets. With more than 315 X12 EDI standards and a growing collection of X12 XML schemas, ASC X12 enhances business processes, reduces costs and expands organizational reach. ASC X12's diverse member base includes 3,000+ standards experts representing over 300 companies from multiple business domains. To learn more about ASC X12 and how to participate in its vital standards-setting role for finance, government, health care, insurance, transportation, and many other industries, visit www.X12.org, contact info@disa.org or call (703) 970-4480.