



Intelligent API's Product Overview

HL7, XML, ASCII, CSV, NVP, ASTM, SQL, GDT, DICOM, User-defined
A Bi-directional HL7 ADT, Order, Result and Billing Interfaces

Interface with

- ✦ Diagnostic Medical System Interface
- ✦ Transcription System Interface
- ✦ ECG Management System Interface
- ✦ Laboratory System Interface
- ✦ Radiology System Interface
- ✦ Pharmacy System Interface
- ✦ Medical Billing System Interface

Overview

IntelligentTools IDK is an HL7 interface toolkit that allows vendors to integrate their systems to talk to their client's systems and link as many dissimilar applications as they need regardless of hardware or software platform. In simple term IntelligentTools IDK enables your system to talk to unknown systems by mapping data from "Client's format to Vendor's format".

The IntelligentTools IDK provides near universal interface capability, It is a non-invasive interface tools for application to application or enterprise wide interfacing. IntelligentTools IDK supports all standard messaging formats such as: HL7, XML, CSV, NVP, ASCII, DICOM, ASTM and User-defined.

IntelligentTools IDK Features

Proactive, Centralized Management

A simple to use, web-based application provides consolidated monitoring and centralized troubleshooting, reducing support costs and eliminating the need to travel to the remote sites.

| Approach | Value |
|---|---|
| Comprehensive view of message flow and statistics | Ability to track message activity and resolve issues in real-time |
| Single easy-to-use, web-based application | Preventative maintenance and rapid issue resolution from a central location |
| Logging of message activity at both the central server and the remote sites | Broad troubleshooting for all connections regardless of physical location |
| One-click exporting of error files | Eliminates cumbersome research of errors and aides in timely resolution of issues |
| Customized monitoring via user profiles | Shares maintenance responsibilities and decreases the burden on IT staff |
| Individualized mailbox approach | Facilitates easy tracking of messages for each client site |

Secure Service

Rock-solid security is provided for valuable patient data, without requiring firewall modifications and without requiring a VPN.

| Approach | Value |
|--|--|
| Secure connectivity via a web service | Innovative solution eliminates the need for cumbersome VPNs |
| 128- to 256-bit SSL encryption | Layered security ensures protection of confidential patient data |
| Connectivity to remote sites and EMR systems without requiring modifications to the firewall | No adjustments to existing security configurations are needed |

Scalable Solution

Built on an industry-proven integration platform, Intelligent Community Exchange expands your relationships in the healthcare community without sacrificing performance or increasing operational costs.

| Approach | Value |
|--|---|
| Leverages your Intelligent Integration Engine investment | Reduces the cost of deployment and enables robust interfacing through a trusted integration platform |
| Uses a "locking" mechanism as a security check when connectivity is scaled | Maintains First In First Out (FIFO) order in each message stream |
| Flexible to work with all data types | Works with both HL7 and XML messages, and populates a CCR or CCD as required |
| Builds on existing connectivity | Utilizes existing configurations to quickly expand the number of connections with minimal modifications at the central server |
| High volume | Can connect to hundreds of remote sites or EMR systems without sacrificing performance |

Web-enabled Interface Engine

Processes healthcare informations and allows user a secured access to those informations through IntelligentTools WebSelect application.

Messaging and Mapping Application

Uses to map data from healthcare standard, proprietary and user-defined formats to "What you want" format or creates HL7 or other message types from your format to your client's format.

Plug & Play TCP/IP Communication Drivers

The TCP/IP communication drivers are used for socket communications between your system and your client's systems. The Receiver automatically creates and sends HL7 acknowledgment upon receiving HL7 message. The Transmitter automatically connects and sends your HL7 messages and waits for client 's message acknowledgments. IntelligentTools communication drivers can be configured to send and receive non-HL7 messages. Both IntelligentTools Receiver and Transmitter run as services.

Interface Automation applications

This application is used to automate your interface; you assigned your interface task using a command line call to IntelligentTools interface engine and path to your interface templates from a user friendly application dialog box.

Interface Necessity Utilities

IntelligentTool.s IDK toolkit includes many useful utilities and applications, such as copying, deleting, batching or un-batching files and interface transaction log and backup, to help you build, test and manage your interface quickly and efficiently.

Cost effectiveness

IntelligentTools IDK vendors paid reasonable price for their interfaces and retained a competitive edge over their competitors by pricing their products lower, while offering their customers world-class interfaces.

Reliability is the main factor in considering IntelligentTools IDK as your middleware, for example the first and second generation of IntelligentTools IDK still interfacing Dictaphone Dictation Systems to HIS/RIS in many Emergency Rooms across the US, others still interfacing the old Hewlett Packard (HP) TraceMaster ECG Management System (EMS) to Hospital Information and EMR Systems.

IntelligentTools IDK Specifications

- ✦ Windows based software for easy installation and support
- ✦ Compatible with HL7 version 2.1, 2.2, 2.3, 2.3.1, 2.4, 2.4.1 and 2.5 (HL7 version 3 ready when available)
- ✦ Supports XML, ASTM, ASCII, CSV, SQL, GDT, User-defined and Proprietary message formats
- ✦ Supports Unicode, Single byte (non-English) and Multiple bytes characters
- ✦ Sending HL7 Query, Result or Billing message automatically via TCP/IP socket connection

Built-in Interfaces designed using IntelligentTools

Drug Image Interface – Drug Information Bridge

Drug Image Database provides content on thousands of prescription and OTC medications, including tablets, capsules and liquids. These databases make it easy for pharmacists to verify a drug being dispensed against images and descriptions of the prescribed medication.

- ✦ High-resolution images of tablets, capsules, transdermal patches and other dosage forms
- ✦ in multiple formats (e.g., .jpg, .gif and .bmp)
- ✦ Data unique to a National Drug Code (NDC) and to specific manufacturers
- ✦ Images for more than 52,000 NDCs
- ✦ Imprints for tablets, capsules, transdermal patches and other dosage forms
- ✦ Multiple descriptors for a drug, including color, dose form, coating, shape, flavor, imprint among others

FEATURES

- ✦ **Provides** seamless integration of Drug Facts and Comparisons monographs into the existing workflow
- ✦ **Enables** users to access brand- and package- specific content
- ✦ **Customizes** the display of information based on specific needs
- ✦ **Retrieves** route-specific drug information
- ✦ **Saves** time by providing direct access to drug reference information within the workflow
- ✦ **Simplifies** access to drug information by eliminating the need to login/logout
- ✦ **Reduces** risk of dispensing errors by placing reference information within the workflow
- ✦ **Allows** practitioners more time to see patients

Healthcare Common Procedure Coding System Codes (HCPCS)

This API provides quick and easy access to the most current Healthcare Common Procedure Coding System Codes (HCPCS) information as published on the Centers for Medicare and Medicaid Services (CMS) website.

- ✦ A complete listing of all Level II (HCPCS) values, with a subset of fields provided by the CMS website
- ✦ A map to an applicable National Drug Code (NDC), Universal Product Code (UPC) or Health Related Item (HRI) Number (for Level II HCPCS that relate to drug products or supplies)
- ✦ A mapping indicator to help determine the quantity to submit for the NDC-UPC-HRI on a claim form

Referral Integration

Connects Providers to share Patient demographic information

Lab Integration

Connects Labs to Healthcare EMR systems

Patient Connect

Connects Healthcare providers/Patients/Health Insurance providers.