

HCL INTEGRATION PLATFORM (HIP) HEALTHCARE PACK



BRAIN CHECK-UP

Specific brain lobes and neurotransmitters:

DOPAMINE - frontal lobes
(Energy or Metabolism)

ACETYLCHOLINE - parietal lobes
(Memory)

GABA - temporal lobes (Calm)

SEROTONIN - occipital lobes

AT A GLANCE

The complexity of health care data systems is driving the need for more interaction between various standards. Staying compliant with regulations can be a huge challenge for organizations today. One of the reasons is that figuring out exactly what certain rules actually mean can be a complex proposition. It's a lot like navigating the legal system. Every day, judges and lawyers are faced with cases that have no precedent and a lot of complex, sometimes contradictory laws that apply. It's no wonder so many cases are referred to a higher court to hand down a verdict.

There's a similar dynamic going on for any organization working to remain in compliance with Health Insurance Portability and Accountability Act (HIPAA) mandates. Healthcare providers are required to follow all electronic data interchange (EDI) transaction standards outlined in the current HIPAA implementation guidelines. That seems clear enough, but of course, it gets complicated in a hurry.

The entire healthcare industry is facing increased pressure to implement productivity and quality improvements while

reducing costs. The use of electronic data interchange and industry-specific data exchange standards for healthcare transaction data is a potential source of significant benefits in these areas.

THE SOLUTION





The HCL Integration Platform (HIP) is a modernized tool to help enterprises solve multifaceted data integration problems. HIP Healthcare Pack delivers accelerators for HIPAA, HL7, and NCPDP to address multi-standard exchange formatting requirements of the healthcare industry.

The Pack contains type trees, maps, sample data, and utility modules. These predefined, industry specific objects provide flexibility to implement a wide variety of integration applications and boost the development effort by reusing standard components.





KEY BUSINESS BENEFITS



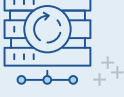

HCL Integration Platform Healthcare Pack extends HIP to address HIPAA requirements, including Workgroup for Electronic Data Interchange/Strategic National Implementation Process (WEDI/SNIP).

HIP supports specific industry packs such as healthcare services, which provide capabilities to perform the following:

			
<p>Transform, validate, and enrich any data</p>	<p>Deliver trustworthy information for critical business initiatives</p>	<p>Meet regulatory compliance requirements</p>	<p>Support universal reuse and development</p>

The packs provide healthcare and insurance payer organizations with an infrastructure that has the capability to:

			
<p>Enable compliance with government and industry mandates.</p>	<p>Control administrative costs.</p>	<p>Streamline business processes.</p>	<p>Facilitate accuracy and timeliness of information</p>

			
<p>Offer a competitive advantage.</p>	<p>Conform to existing systems.</p>	<p>Adapt to new technologies as they emerge.</p>	<p>Integrate multiple systems and standards.</p>

HL7

The HL7 standard is supported as part of the HIP Healthcare Pack. It is the workhorse set of data standards for the provider side of healthcare. This is what the docs and hospitals and clinics use.

Most of HL7 today is HL7 EDI which is in the family of 2.x standards. The HIP Healthcare pack contains all major versions of the 2.x standards fully modelled with healthcare specific business terms. This makes it easy for use in transformations

When having to do HL7 V2.X validation, then the best option is using the HIP Healthcare Pack. Version 2.X is not going away anytime soon. Per the HL7 organization, 95% of US healthcare organizations use HL7 V2.x and it is widely used around the world.

We have also been told that our metadata representations

for 2.X, which use human readable terms, are easier to work with. The latest GA Pack is updated to version 2.8.2 and we're getting ready for 2.9 soon.

HL7 2.x validation utility allows you to report differences between the standard and data that you are processing. This is becoming increasingly important as HL7 is now starting to escape its traditional uses and is being sent between organizations.

The pack also includes a set of examples providing crosswalks between the HL7 EDI and the XML representation tagged in an isomorphic manner.

And that's not all! Due to the inherent strength of the HIP transformation suite we natively support newer HL7 standards families such as FHIR and 3.x including CDA.

NCPDP

More and more, we are seeing that pharmacy prescription tracking is coming under the spotlight for a variety of reasons, such as drug costs, prescription tracking related to abuse, etc.

There are many NCPDP standards and the most relevant are supported in the HIP Healthcare Pack. For nearly 40 years, NCPDP (National Council for Prescription Drug Programs) has led a transformation in the pharmacy services sector by creating and promoting standards for electronic healthcare transactions. The NCPDP transactions are used exclusively in the retail pharmacy sector.

One of several NCPDP standards supported in the Pack is NCPDP D.O, used for pharmacy related claims and mandated under HIPAA.

New into the healthcare landscape are the PACDR - Post Adjudicated Claim Data Reporting standards. A metadata representation is included in the HIP Healthcare pack help to show the results of claims adjudication.

The HIP Healthcare Pack also includes support for the SCRIPT EDI Standards. These are used in ePrescribing - the way to exchange prescription information between prescribers, pharmacies, intermediaries, payers.

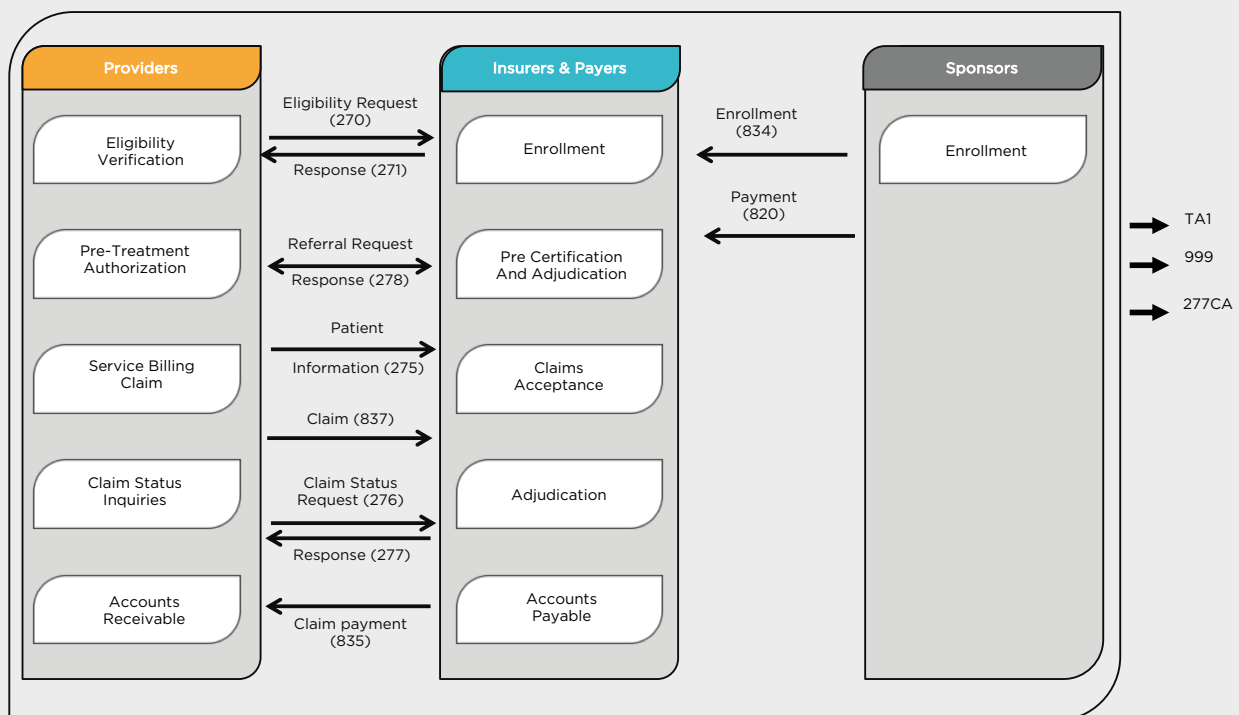
HIPAA

The main value of the HIP Healthcare Pack are the pre-built HIP Type Trees. These trees are the HIP representation of the HIPAA X12 standards. To create the standards manually would be a tremendous time constraint, so having them prebuilt for you is a significant benefit. The trees support all the different HIPAA transactions (see image below), and have the validation and HIPAA codes already incorporated. These codes are not hard-coded so

there is flexibility on what would be required to use because various parties interpret the standards differently.

The following diagram shows the flow of information between healthcare providers and insurance and payers and healthcare plan sponsors and the associated HIPAA-mandated transaction numbers. These numbers refer to specific HIPAA X12 transaction sets that are supported in the HIP Healthcare Pack.

HIPAA X12 Transaction Sets Supported By HIP



Also supported are the PACDR Post Adjudicated Claim data reporting versions for the 837P (Professional), 837I (Institutional), and 837D (Dental). The Health Insurance

Exchange (HIX) messages (HIX) are also supported along with clinical attachments that are EDI messages which embed HL7 CDA XML content.

HIP COMPONENTS

Design Tools

Map Designer	Adapters	Command Server
Used to specify data transformation logic in the form of map rules	Used to integrate with specific types of data sources and targets	Used to test and execute maps in a development environment
Integration Flow Designer	Meta-data type importers	Type Designer
Provides a graphical facility to combine collections of maps and run them as a single unit	Converts existing metadata, such as COBOL Copybooks, Java Class, XML Schema, WSDL, SAP structures, etc, into a type tree	The design component used to specify, define, and manage type definitions in the form of a data dictionary that defines how types are classified
Database Interface Designer		
A graphical user interface in which to create and maintain database definitions that include information such as database name, connection information, queries, and stored procedures		

Runtime Engines:

Launcher	Command Server	Application Programming
Event or time bases scheduling of maps, plus automates the execution of systems of maps and can control multiple systems.	Used to execute commands in production environments from a command line or script	APIs that are available for C/C++, Java, CSharp
Integration Server		
Ability to call maps from other applications such as IBM Business Process Manager Advanced, IBM Integration Bus and IBM Sterling B2B Integrator		

Other HIP Industry Packs

- HCL Integration Platform Supply Chain EDI Pack
- HCL Integration Platform Financial Payments Pack

For more information, please contact us at products-info@hcl.com