

HCL **INTEGRATION PLATFORM** (HIP)

Supply Chain Electronic Data Interchange Pack



AT A GLANCE

Electronic Data Interchange (EDI) is the electronic exchange of routine business information by using an agreed-upon file structure.

The HCL Integration Platform (HIP) Supply Chain EDI Pack is an industry accelerator that provides business-to-business enabling functionality to users of HCL.

The HIP Supply Chain EDI Pack provides the following functionality:

- Ability to perform B2B enablement functionality for X12, EDIFACT, and TRADACOMS data
- Enable data transformation by use of definitions in HIP type tree format.
- Compliance validation, reporting, and data valid/invalid splitting

Example files for both EDIFACT and X12 are included when you install the HIP Supply Chain EDI Pack. The packs

provides pre-built structures that deliver the various versions of the standards in type trees. The time and effort to build some of these structures manually would take months due to the nature of the complexity of the standards.

By using these packs, the structure of the input or output is provided for you. If you have an interface that uses these structures, and then you have the other side of the interface that can take advantage of an importer, the design time of that interface is reduced drastically.

The HIP Supply Chain EDI Pack also offers a quick and efficient pass/fail validation feature. This feature determines if the data is good or bad, and can then perform separate processing based on the results. Even if standards compliance is not a requirement, HIP has the ability to set up the metadata representations and type trees, which are representations of the data structure, to help define the same data in different ways.

HIP SUPPLY CHAIN EDI PACK

The HIP Supply Chain EDI Pack extends HIP to address EDI-centric requirements, including ANSI X12 documents, EDIFACT documents and TRADACOM transactions.

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

- Transform, validate, and enrich any data
- Deliver trustworthy information for critical business initiatives
- Meet regulatory compliance requirements
- Support universal reuse and development
- Offer a competitive advantage.
- Conform to existing systems.
- Adapts to new technologies as they emerge.
- Integrates multiple systems and standards.

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

KEY ADVANTAGES



High Performance

Event-driven, transactional environments to ensure completion and validation of transactions in real time or batch



Standards Support

Out-of-the-box solutions for industry standards and regulatory compliance for operational and transactional data integration



Lower costs

Accelerate projects and reduce implementation costs enabling you to retire old or manual processes or interfaces that are inflexible and expensive to maintain



Reduce maintenance effort

Save time on the maintenance of implementations by taking advantage of accessing meta-data or using pre-built standards



Flexibility

Prepare for changing business, compliance, and application environments with the most adaptable data transformation and integration platform

EDI TRANSACTION SUPPORT

All the ANSI X12 trees are provided from version 2003 through the latest version released (currently 7030). All versions of both EDIFACT and TRADACOM are supported too.

The trees include all of the various codes and values that are provided by the standards bodies. These codes and values can be validated at the time of processing to ensure that your trading partner is compliant with the standards. But anyone who has ever implemented EDI recognizes that the standards aren't "standard". Each company can interpret the standards differently. The trees are not hard coded. Changes can be made to them to support the interpretation of the standards for your trading partners.

There is also a notion of restart within the standards trees. If a large customer sends you an order with hundreds of line items, and one line has the wrong UPC code or price, you don't necessarily want to reject the whole order. Maybe put that one line item aside and continue to process the order. Or alternatively, if you receive an invoice with an incorrect price, you might want to reject the whole invoice and have them resubmit it. There is flexibility built in to decide what is the best business practice to follow.

When new versions become available, they would be provided as part of the paid support process. So, when using HIP, if you have to move from one version of the standards to another, you can save valuable time on the maintenance of that interface. Just download the latest pack of that standard and get the version of the tree you require, and you have the new tree. Now, point the map to the new tree, and let HIP interpret the changes. For new items that the map hasn't seen before, it will leave those rules blank and allow you to fill them in or enter "NONE" if it is not required. For fields and records that are the same as before, the rules will get re-populated and nothing needs to be done. For items that have been removed or renamed, the map will come up with an "unresolved rules" list that you can drag and drop back into place with the new fields. This will help identify quickly and efficiently what has changed in the tree and save you time maintaining that map.

Taking advantage of pre-built structures from packs can be a tremendous value when using HIP. If you have these available to you, take full advantage of them.

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 Healthcare Pack (HIPAA, PACDR, HL7, NCPDP)
- HCL Integration Platform Financial Payments Pack (SWIFT, SEPA, ISO20022, NACHA)

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