# HCL INTEGRATION PLATFORM (HIP) FINANCIAL PAYMENTS PACK

PRODUCTS & PLATFORMS
by HCL Technologies

## AT A GLANCE

The world moves billions of dollars around electronically daily. Need to transfer money overseas? Today, it is easy to walk into a bank and transfer money anywhere around the globe. But how does this happen? Behind most international money and security transfers is the SWIFT system, a vast messaging network used by banks and other financial institutions to quickly, accurately, and securely send and receive information such as money transfer instructions.

Within the US, the banks use NACHA (the National Automated Clearing House Association) to manage the development, administration, and governance of the ACH Network, the backbone for the electronic movement of money and data in the United States. SEPA (the Single Euro Payments Area) is a payment-integration initiative of the European Union for simplification of bank transfers denominated in euro. Trying to support and maintain all of these various financial standards can be expensive and time consuming.

## THE SOLUTION

The HCL Integration Platform Financial Payments Pack extends HIP to address financial-Centric requirements, including SWIFT, NACHA documents and SEPA transactions.

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.

When you install the HIP Financial Payments Pack, SWIFT, NACHA and SEPA example files are automatically installed in the pack directories Financial Payments. The Pack provides pre-built structures that deliver the various versions of the standards in type trees. The time and effort to build these structures manually on your own can take months due to the nature of the complexity of the standards.

Utilizing the HIP Financial Payments Pack the structure of the input or output is made for you. Utilizing the import feature of the HIP Financial Payments Pack, you can greatly reduce the design time while allowing for mcuh more flexibility and scalability

The HIP Financial Payments 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.

## KEY BUSINESS BENEFITS

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

Transform, validate, and enrich any data

Deliver trustworthy information for critical business initiatives

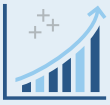
Meet regulatory compliance requirements

Support universal reuse and development

The packs provide financial organizations the capability to:

Enable compliance with government and industry mandates.

Control administrative costs.

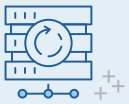


Streamline business processes.

Facilitate accuracy and timeliness of information.

Offer a competitive advantage.

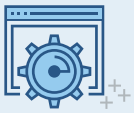
Integrate with existing systems



Adapt to new technologies as they emerge.

Integrates Support for multiple systems and standards.

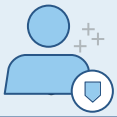
## KEY ADVANTAGES



**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.

## SWIFT

The SWIFT standard is supported in the HIP Financial Payments Pack. It provides a powerful and flexible set of components that support the SWIFT MT and SWIFT MX Funds and Payments message standards. It allows for easy integration of SWIFT messages into existing systems.

The major benefits of the HIP Financial Payments Pack using for SWIFT are the following:

- Allows SWIFT standards to be easily maintained.
- Ensures regular and timely pack updates that are aligned with SWIFT Standards.
- Provides type trees for easy integration.
- Provides support for MT-MX coexistence.
- Ensures comprehensive validation and error reporting.

The HIP Financial Payments Pack validates against the SWIFT User Handbook guidelines. The SWIFT industry mandates updating to the most current SWIFT format every year, and by using the Pack, you will get the latest version and minimize the update effort.

- SWIFT Type trees
- LMF Maps and Trees
- Java Validation Component (JVC)
- MX Validation Framework

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

## NACHA

NACHA is a national, not-for-profit organization that develops operating rules and business practices for electronic payments. Members of this organization define the rules covering the Automated Clearing House (ACH) network in the United States.

The ACH Network is a nationwide electronic funds transfer system. It is a batch oriented store and forward system, where transactions received by financial institutions are stored and processed later in the day in a batch mode, rather than receiving and processing each payment individually.

The HIP Financial Payments Pack is a HIP-based technology that provides support for the exchange of ACH payments. The Pack includes a HCL Integration Platform (HIP) type tree that complies with the ACH file, record and field level specifications and example maps to help you use the type tree.

This version of the NACHA component includes these new and updated HIP-based artifacts:

- Updates to ACH type trees to support the amendments to the 2017 NACHA Operating Rules
- New ACH validation example maps
- New example to convert ACH messages to ISO 20022 XML messages
- Updates to the legacy examples to use the latest version of the 2017 ACH type tree

## CONCLUSION

As standards evolve and are updated, the HIP Financial Payments Pack provides timely updates to contents protecting existing investments year after year.

With the help of HIP Financial Payments Pack, both IT Integrators and financial analysts can give boost to their Integration development timeline and comply with government regulations and mandates on time.

## 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, C # |

| 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 Healthcare Pack

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

WX-TC2803-AT69107