IBM Sterling Transformation Extender Pack for Healthcare

Any-to-any data transformation for healthcare

Within the next three years in the United States, new rules and standards required by the federal government will directly impact all participants in the healthcare ecosystem:

– The CMS Interoperability and Patient Access Final Rule (CMS-9115-F) defines interoperability and Quality Payment Program (QPP) measures for eligible Medicare providers and requires allowing patients easy, useful access to their healthcare data.
– The 21st Century Cures Act (Cures Act) implements penalties for healthcare providers who fail to comply with the standard.
– The impending adoption of ASC X12 8020 will require payers to implement a significant change to their claims processing environments.

In addition, there are changing care delivery and administrative workflow standards that will require adjustments and compliance by healthcare companies.

As healthcare companies plan their readiness for these rules and standards, it is critical that they consider the impact to data and digital connections, which are important for achieving business objectives and maintaining compliance. As sources of data continue to grow in volume and complexity, transforming, validating, and creating value from data are increasingly important and challenging tasks. Complying with rapidly changing regulatory standards only compounds the challenges of providing a progressive interoperability roadmap across member, provider and payer connectivity channels.

Highlights

– Universal and flexible
– Supports HIPAA, HL7,
– NCPDP, federal interoperability upgrade standards
– Reduce complexity and costs
– Cloud enabled
– IBM Certified Container support

The healthcare industry today faces an array of requirements in transforming and validating complex data in to and out of standard formats. First, they need flexible data transformation solutions that can handle current and future workloads. Second, they need to produce and validate data in a wide range of industry standards. And finally, they need solutions that offer fast throughput that can be deployed quickly.

Reduce complexity and costs

IBM Sterling Transformation Extender (ITX) Pack for Healthcare deployed on the core ITX runtime, empowers you to transform, validate and support compliance efforts of your healthcare data. ITX also helps to automate, accelerate and scale these processes, enabling your organization to reduce complexity and related costs.

ITX Pack for Healthcare is specifically designed for high-volume, complex transformation and validation of data across a range of different healthcare formats and standards. It includes advanced support for metadata mapping, data validation and compliance capabilities for healthcare.

Healthcare industry standards

ITX Pack for Healthcare provides out-of-the-box capabilities to integrate a range of industrystandard data formats with enterprise infrastructure. It can help accelerate the delivery of transformation solutions by providing pre-defined schemas and maps. In many cases, the ITX Pack for Healthcare also offers validation tools to help reduce risk in projects that require conformity to mandatory and advisory guidelines, including:

– **HIPAA:** Provides ready-to-execute template definitions and compliance validation for the American National Standards Institute (ANSI) X12N Health Insurance Portability and Accountability Act (HIPAA) standard, as well as 4010 and 5010 flat file formats for professional and institutional claims and coordination of benefits. It also provides preview content for the pending update of HIPAA.

– **HL7:** Supports standards for the exchange, management and integration of clinical data intended to promote interoperability between healthcare information systems via the Health Level 7 (HL7) standard sets. Also includes NCPDP-SCRPT/HL7 mapping examples and the schema, JSON and mapping examples for the Fast Healthcare Interoperability Resources (FHIR) standard.

– **NCPDP:** Includes support for the D.0 transaction set, template definitions for the SCRIPT transaction set, all finalized HIPAA National Council for Prescription Drug Programs (NCPDP) telecommunications transaction sets, and the Batch Standard format. It also includes Post Adjudication Claims Data Reporting (PACDR) examples.

Universal and flexible

ITX, combined with the ITX Pack for Healthcare, is a universal, scalable and flexible solution that enables you to design, map, transform and validate data in a variety of ways that suit your specific demands. The solution is designed to enable and automate universal data transformation, whether X12N, FHIR, XML, JSON or any other format. Simply describe your data, and then let the solution help define and transform it.

The solution provides robust, graphical representations of your data and has capabilities and methodologies that are built around the structure of the data. Many-to-many transformations can be performed without requiring an intermediate step to XML every time, making ITX highly performant. The solution can take in single or multiple files, and create multiple different formats within each file.

Mapping and reusable functions

ITX Pack for Healthcare has robust mapping functions to ensure that your data gets transformed quickly and accurately. It also allows you to create reusable components, using methodologies that have been previously applied, to minimize hand-coding and increase productivity.

Data validation

Through ITX's intuitive user interface, you not only see the hierarchical structure of data, but also any rules that are applied to any of the components, and related restrictions and properties. The solution also offers a quick, efficient and configurable pass/fail validation to determine if data is "good" or "bad" – and can then perform separate processing based on the results. Even if compliance with healthcare standards is not a requirement, the solution can easily set up the metadata representations of your data structure to help define the same data in different formats.

Cloud-enabled

ITX and the ITX Pack for Healthcare can engage data residing in the cloud – and in various hybrid-cloud contexts – protecting your current investments and enabling easy access and integration of data and technologies where required. In addition, you can use IBM Supply Chain Business Network to carry the transformed data from ITX to the outside world of customers, trading partners and suppliers.

IBM Certified Container support

ITX plus the ITX Pack for Healthcare also has options for IBM Certified Containers on RedHat OpenShift, which deliver increased security and greater cost-effectiveness in a hybrid-cloud environment. IBM Certified Containers for Sterling Transformation Extender are enterprisegrade, secure-product editions with integrated common software services for consistent deployment lifecycle management, including easy installation and configuration options, management of upgrades, and rollback, scalability, and security.

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Why IBM?

ITX with ITX Pack for Healthcare Payer is a modular and comprehensive solution based on industry standards. You can transform any structured or unstructured data without coding at enterprise scale. You can also improve time to value with a modern user experience (UX) that enables efficient mapping right from your web browser.

Seamless user interaction with your choice of browsers provides easier and faster data mapping. Additionally, you can transform your data residing in the cloud. Using ITX, you can engage with data where it resides, whether on-prem or in the cloud with an array of adapters, including support for AWS, MongoDB, HDFS and Kafka.

For more information

To learn more about how IBM Sterling Transformation Extender (ITX) can help your business automate complex transformation and validation of data between various formats and standards, please contact your IBM representative or IBM Business Partner, or visit:
www.ibm.com/products/transformation-extender

Next steps

| Watch the ITX webinar featuring healthcare experts → |

| Watch ITX in action in this demo → |

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