Solor

Solor is an open-source ecosystem that brings together different terminology standards by using a single model that can encompass any customized content with the goal to help health care organizations avoid errors in the interpretation of clinical data.

Currently, health care entities manually translate and map health data for their own needs, which is costly, inefficient, and error-prone. Solor provides an integrative approach to terminology management so that health care providers can preserve the semantic meaning of health data when it is transferred from one electronic health record (EHR) system to another for safer, faster, and seamless care.

The Solor approach achieves three important functions that are key to semantic interoperability:
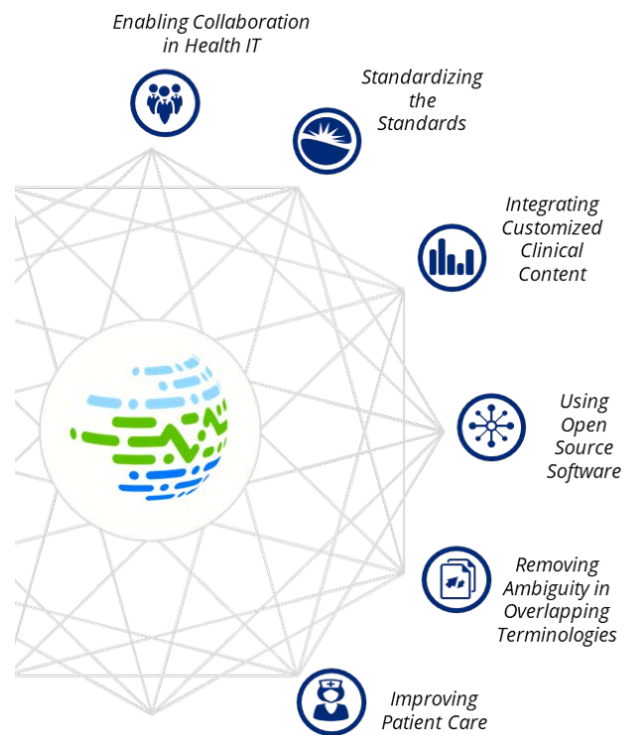
1. Standardizes the terminology model for use in encoding data
2. Enables the sharing of open and proprietary terminology extensions
3. Evolves existing terminology systems (SNOMED, LOINC, RxNorm, etc.) to better meet local needs

Instead of spending time and resources on redundant and unreliable data interpretation, medical professionals can now build Health IT solutions with more reliable and shareable data.

Health care interoperability will not happen overnight. Instead, it is an evolutionary process whereby thousands of health care systems will need to maintain their current systems while evolving to achieve semantic interoperability. Solor can become a new open standard for this evolution by providing a consistent foundation for anyone to easily create and share customized clinical content to achieve true interoperability.

Today, the Solor team is building use cases with organizations such as the FDA to improve the semantic interoperability of health care data. For more information, please visit solor.io.

Enabling Collaboration in Health IT

Standardizing the Standards

Integrating Customized Clinical Content

Using Open Source Software

Removing Ambiguity in Overlapping Terminologies

Improving Patient Care

VA | U.S. Department of Veterans Affairs

CONTRIBUTION TO SEAMLESS CARE

Solor provides a consistent semantic foundation for all electronic health records (EHRs), including Cerner, to seamlessly share information between or within systems. Solor improves semantic interoperability for the safety of patients and quality of health care by preventing the interpretation and loss of clinical data during data transformations that may occur during data exchange.

WHAT IS THE FUTURE

The initial Solor application to view clinical terminology data was completed in 2018 with expected updates and major improvements to edit clinical content to be completed by the end of Spring 2019.

Future plans include partnerships with the FDA to help integrate customized clinical and lab data with standard terminologies such as LOINC.

- In 2019, Solor will be focusing on early adopters, and building its collaborative coalition. These early adopters will begin improving how terminology standards are integrated and start building early clinical decision support artifacts on top of Solor's foundation.

- In 2020, Solor will be focusing on scalability and widespread adoption of Solor. As more organizations implement Solor, it will mature its users' ability to improve content, share health information within and between systems, and build accurate and effective clinical decision support artifacts.

SUPPORTS GOALS

Solor is a VA-initiated effort to tackle issues of semantic interoperability in health care data on a national level. Solor grew out of challenges that were identified when VA attempted to build clinical decision support. Solor's architect, Dr. Keith Campbell, recognized the limitations of terminology mapping – an inconsistent content integration process. VA saw the potential of Solor's comprehensive implications and is supporting Solor's growth beyond its organization to build this open and collaborative environment that is necessary to interoperability.

How You Can Help

Get started with Solor today! Our team is developing a Viewer and Editor application that allows users to access Solor content in a common model.

We are working with several interested parties to develop specific functionalities to meet their business needs. We would love to help you achieve semantic interoperability for your health care organization, find out how by contacting us at solor@informatics.com.

As an open source project, Solor encourages all those interested to contribute and improve its capabilities and functionalities. Soon you will be able to import Solor content into your terminology server directly. To stay up-to-date with the latest Solor news, development, learning, and future training, visit us at solor.io.

Connect with Solor!

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