



OntoReason, LLC is a privately held software and informatics company with offices in Midvale Utah, Sacramento California, and Phoenix Arizona. OntoReason was created to enable a paradigm shift in health solutions by merging the state of the art medical informatics, knowledge-oriented computing, and service oriented application architecture development into an evolutionary approach to building information systems.

OntoReason Solutions

- Provide SPL Highlight Coding and Structure
- Provisioning of Standardized Vocabulary Authoring and Management Solutions
- Development of Intelligent Processing Services for Standardized Health Services

OntoReason's Core Capabilities

- Standardized vocabularies represented in a complete health ontology
- Standardized communication protocols
- Machine processable knowledge representation
- Deep Medical Domain Knowledge

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SPL Structured Highlights Coding and Terminology Services

OntoReason provides automated SPL coding and expert domain analysis services to the Pharmaceutical Industry and SPL Vendors to assist our clients in coding and structuring highlights to meet the FDA requirements. OntoReason's services include providing strategic support for pharmaceutical companies in identifying issues and resolving limitations of the SPL code list in order to continually inform the FDA quality improvement process.

OntoReason provides a low cost, flat rate per label charge for coding and structuring the highlight section:

- SPL Code Concepts in XML structure
- Coding documentation for key issues and SPL limitations
- One Hour of Phone Support

Our Process

OntoReason provides automated processing of the Highlights section by parsing the text and providing identification of the label concepts for coding. This processing uses our standards based health ontology to identify the concepts and automatically code where feasible. The results are forwarded to our domain experts to code remaining concepts and validate completed highlights coding. Documentation of the coding process is generated, noting key issues and SPL limitations for the customer. One hour of phone support is included with the basic cost to ensure our clients understand the key issues. The OntoReason process steps:

1. Process Highlights Document provided by customer
2. Map all of the Highlights concepts to SNOMED codes provided in the FDA code list
3. Map all document sections to LOINC
4. Map all drug codes and drug quantity to NDC
5. Map drug dose forms, route of administration and drug schedule to the NCI Thesaurus
6. Identify Highlights that cannot be coded with the SPL defined SNOMED codes but where a SNOMED clinical finding code does exist and map to non-SPL SNOMED code
7. Identify Highlights that cannot be coded with existing SNOMED codes
8. Submit the Highlights that have no SNOMED code to SNOMED International for inclusion in the next SNOMED release
9. Map all additional codes that are in the SPL requirements
10. Generate XML segments for the Highlights Section
11. Document findings and provide customer support



Additional SPL Coding Support Services

OntoReason domain and subject matter experts are direct contributors to the national standards bodies. OntoReason principle, Dr Cecil Lynch, Co-chairs the HL7 Vocabulary Technical Committee. OntoReason has extensive experience helping to solve terminology issues across the Federal Health Architecture including the Food and Drug Administration, the National Cancer Institute and the Centers for Disease Control.

The creation of a structured and coded Highlight section is not the assignment of codes to medical concepts described in the highlights section text. It combines the clinical, semantic, and syntactic relationships of the concepts with their standardized vocabulary definition. This process requires extensive clinical domain experience combined with a deep understanding of the standardized code systems and detailed conceptual analysis to accurately capture its content and structure.

Further complicating the process are the current limitations of the FDA required SPL terminology set that must be used to representing these complex relationships.

OntoReason experts can provide additional terminology support and strategic guidance to our pharmaceutical industry customers in support the continuing improvement in company coding processes; in working with the FDA vocabulary definition process; and to highlight key issues and risks associated with the FDA SPL coding requirements.

Our services in support of mission critical terminology operations include:

- Clinical analysis and standards based concept coding
- Interaction with the FDA SPL coding standards group
- Submission and support of creating new SNOMED entries
- Strategic analysis and standards body representation
- Training and technical services



Why OntoReason?

Low Cost

OntoReason provides a low cost service based upon our ability to automatically process a majority of the free text, reducing manpower and improving turn around time.

World Class Domain Expertise

OntoReason's staff has extensive clinical domain expertise; provides leadership and direct contribution to the standards bodies; and have extensive experience helping to solve terminology issues across the federal health architecture including the Food and Drug Administration, the National Cancer Institute, and the Centers for Disease Control.

Customer Satisfaction

OntoReason focuses on customer satisfaction, servicing our customers needs with the highest quality expertise and customer service available. Our goal is to provide outstanding value to our customers, making a difference in their business.

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