



UDI: STAYING AHEAD OF THE CURVE

By Merit Solutions
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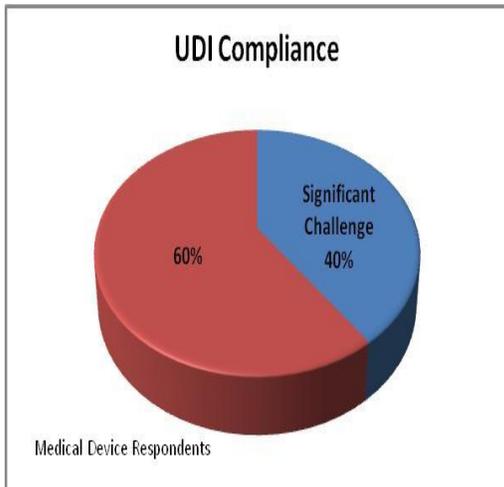
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EXECUTIVE OVERVIEW

It has been difficult to track safety issues associated with medical devices as there is no single universal means to identify these products. Gathering the appropriate surveillance data in order to make safety decisions is a challenge.

The FDA's Unique Device Identifier directive was developed to provide a means to track medical devices to facilitate post market surveillance for adverse event and recall activities that will lead to improved device safety.



The first deadline for UDI implementation has come and gone. A recent survey conducted by a labeling solutions provider for medical device manufacturers indicated that 40% of respondents were already experiencing challenges with the UDI regulations. Subsequent deadlines over the next few years will increase these challenges. The survey went on to indicate that another 40% do not have a plan in place to overcome these obstacles and successfully implement UDI.

These companies may have already implemented GS1 and thought they were most of the way there. They may have underestimated the complexity of the project or its impact on the entire enterprise. It is not just a labeling issue. The entire supply chain is impacted. Not fully understanding the scope of the project may have led to underestimating the overall cost.

Whatever the cause of the challenges, it is clear that manufacturers need to create a multidisciplinary collaborative team to step through the process of data gathering, formatting and storage to facilitate implementation and future lifecycle management. This is the opportunity to create a single product definition label profile using a software solution with the flexibility to interface with multiple users throughout the enterprise.

CHALLENGE #1 – UNDERSTAND THE PRODUCT PORTFOLIO

Date	Class of Device
09-24-14	Class III including standalone software
09-24-15	Implantable, life-supporting and life sustaining including standalone software
09-24-16	Class II, Direct Marking for Class III
09-24-18	Class I, Direct marking of Class II
09-24-20	Direct Marking of Class I

Most companies have a rough idea how many SKUs will be affected by the UDI regulation, but few begin their journey with a clear analysis of the portfolio broken down by device class, manufacturing location, OEM etc... Each manufacturer needs to understand the product portfolio and how it fits into the timeline. The vendors used within the supply chain may have different responsibilities. Some products might come in as finished goods and then distributed by the parent company.

Over time, companies may have acquired other manufacturers or product lines leading to inconsistent methods for managing labels including differences in the format of the labels based on line of business or manufacturing site.

Be aware of the multiple packaging levels and the relevance to the UDI labeling requirements. The base package, the lowest level of device packaging with a unit of 1 may be contained in a box with 100 per box and may be shipped with 50 boxes per case. Each level is part of the device identifier.

CHALLENGE #2 – FIND THE PRODUCT DATA

Product information and labeling data may reside in silo systems. Different departments in a company or vendors have various responsibilities when it comes to the product information and lifecycle management. Data may need to be gathered from:

- OEM Vendors
- Label Vendors
- ERP System
- Product Lifecycle Management System
- DMR

Packaging layers may be defined in the individual SOPs or work instructions specific for the put-up. Outer shipping container labeling, if considered a package layer, may reside in warehouse procedures or in the order fulfillment system. This may be complicated if warehousing or distribution functions are outsourced.

Define how many unique labeling situations there are as this will impact implementation. The data must be collated in a single secure tool and administered by individuals trained to identify the critical elements.

CHALLENGE #3 – TECHNOLOGY AND EQUIPMENT

Companies will need to determine if current equipment technologies are capable of producing the necessary AIDC and human readable format. Obtaining this equipment or capability on current equipment in time to meet the required deadlines is a huge undertaking. These upgrades cannot negatively impact manufacturing functions or impede the flow of the supply chain.

product data. This database stores the critical data elements necessary to populate the GUIDID in a secure location.

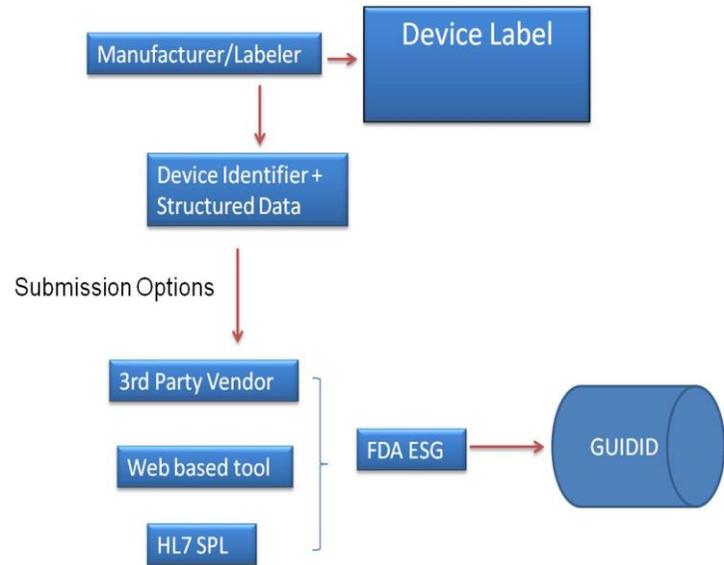
Ideally the PI elements should be generated in an ERP system and interfaced to the critical equipment. This data is converted into barcodes when printing begins.

Finally, there are 3 options for submitting to the GUIDID.

- HL7 SPL XML file format-sends a file to the FDA Electronic Submission Gateway (ESG)
- Web based interface –a manual data entry method
- 3rd party submission-a separate vendor transfers the data on the labeler’s behalf

Some testing is required for the XML file to ensure it is formatted correctly for the ESG.

Organizations can take the opportunity to improve on the overall label lifecycle management process. Using master data solutions and flexible data sharing options that can change with the product and be a single source of truth leads to efficiencies and less errors.



CHECKLIST

- ✓ Develop an enterprise-wide plan
- ✓ Review product portfolio and apply the implementation timeline
- ✓ Understand the packaging levels
- ✓ Gain agreement on supplier responsibilities
- ✓ Update label and packaging files
- ✓ Select an Issuing Agency
- ✓ Review equipment capabilities
- ✓ Determine software solution for master data management
- ✓ Collate product data and populate the tool
- ✓ Determine the submission option
- ✓ Obtain GUIDID account
- ✓ Transfer data

Regardless of the timeframe, a comprehensive plan is required for UDI implementation.

Start now.

CONCLUSION

The UDI requirements are happening now regardless of the product portfolio. Manufacturers are encountering challenges. Many labeling systems really amount to several disjointed processes cobbled together over time. There is no better time to seize the opportunity to improve to a streamlined cohesive enterprise strategy. With a well thought out approach and a unified data solution, companies can meet the challenge of the new regulation and reap the benefits of improved product life cycle management.

ABOUT MERIT SOLUTIONS

Merit Solutions is a global business process consultant and systems integrator with offices in North America and Europe. We are a focused-strategy company with the goal of being the very best at helping clients automate, grow, and transform their business through process mapping and optimization, change management, and innovative IT consulting and development services.

Merit Solutions works with clients to understand and triangulate their exact business needs in terms of people, workstreams, and enabling systems. From future state business process mapping to systems analysis, fit-gap process definition and scoping, sourcing, design and deployment, integration with other systems, and on-going support - we provide end-to-end global services that help clients successfully transform their business and build a foundation that continuously flows value to their customers.

Our clients are typically medium to large, global enterprises who are challenged by inefficient workstreams that cost money, waste time, and reduce quality; information flows and systems that no longer support the goals of the company; and lack of visibility into business data which impedes effective decision making.

ADDITIONAL RESOURCES

Related resources to this white paper include:

- [ERP in Life Sciences](#)
- [Understanding CAPA](#)
- [CAPA, Customer Satisfaction, and the FDA](#)

Information on Merit Solutions or other publications can be found on www.meritsolutions.com