1 KEY ACTIVITIES

- Review the law with counsel at your company:

- Share it with key stakeholders in your organization such as:
  - Government Relations
  - IT
  - Logistics
  - Track & Trace/ERP vendor(s)

- Start budgeting and discussing how you will:
  - Create the new data
  - Receive the new data
  - Store the new data
  - Retrieve the new data for supply chain partners and regulators

2 GENERAL TIMELINE

Note: This section provides a brief summary of the major implementation phases of the DSCSA, please refer to the actual legislation for detailed information.

Please note that the above illustration is for informational purposes only, and provided as a convenience, and is not legal advice or a substitute for legal counsel, nor does it constitute advertising or a solicitation. GS1 US is not a representative or agent of the FDA, and this content has not been reviewed, approved or authorized by the FDA.

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3 TOPICS TO ADDRESS IN YOUR PLANNING

DSCSA INTERPRETATION
The Drug Supply Chain Security Act (DSCSA) was signed into law on November 27, 2013. Key provisions of the law went into effect for certain supply chain participants on January 1, 2015 (see timeline). Although the law required that the FDA develop draft standards (guidance) on the law by November 27, 2014, certain FDA standards are still in development. Understandably, this presents a challenge to your company to implement for the law while specific FDA guidance is still pending. It is crucial that your company acquire a working knowledge of the law in order to understand your risk and develop policies and internal guidelines for operations.

PROGRAM PLANNING MANAGEMENT AND CONSULTING
Lot level information sharing, product serialization and item traceability as documented in the DSCSA will cause your company to make changes to quite a few business processes and information systems throughout your organization. You may want to take advantage of the growing knowledge base of consultancies, peers and others within the US pharmaceutical industry.

STANDARD OPERATING PROCEDURES (SOPs)
As business, operational and I.T. processes and systems change, a large number of SOPs will need to be changed over the next ten years. Impact to your business may be mitigated by developing a solid plan and roll-out schedule to keep existing SOPs in compliance with requirements of regulators and other certifying bodies (FDA, DEA, Joint Commission, etc.).

DSCSA INFORMATION SHARING (TS, TI & TH)
The DSCSA specifies certain dates for each participating trading partner in the supply chain to share or make available Transaction Statements, Transaction Information and Transaction History with their upstream trading partners. The granularity, format and choreography of information flow may change as the timeframe transitions from Lot Level to serialized item level information. Due to the tight timeframes defined in the law, you would benefit from a short term and long term plan that includes the vast transition period from 2015 – 2023.

BARCODE PRINTING & VERIFICATION
The DSCSA requires that manufacturers and repackagers mark their products with a 2D DataMatrix barcode and include the NDC (GTIN in GS1 Standard), Serial Number, Lot Number and Expiration Date. Given multiple production lines, manufacturing geographies and increased use of contract manufacturing, a plan for managing this data to and from the production line is crucial. Also, the process and equipment needed to print clear, readable barcodes needs to be planned accordingly.

INVENTORY MANAGEMENT
The law requires each company to manage inventory, first at the Lot level and then at the individual serialized item level. This will require significant changes to all inventory management systems and related processes. Understanding the implementation strategy of the companies that supply inventory management systems and services may be crucial to your success.

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**LINE LEVEL SERIALIZATION SOLUTIONS**
Serializing individual products may require physical equipment changes to your company’s production lines. Different printers and visual systems may be needed to keep line speeds and production yields at current rates.

**SECURITY, STORAGE AND RETRIEVAL**
The DSCSA includes provisions for protecting data, storage time periods and time permitted to retrieve data based on a regulator’s request. Current Security, Storage and Retrieval plans may need to be augmented or updated for each product.

## 4 WHO CAN HELP?

The following list is provided by GS1 US as a convenience and does not constitute or imply an endorsement, recommendation, or favoring by GS1 US of any of the identified companies, products, or services. GS1 US does not warrant or guarantee any of the products or services identified here, nor does it assume any legal liability or responsibility with respect to them.

<table>
<thead>
<tr>
<th>DSCSA INTERPRETATION</th>
<th>Associations</th>
<th>Solution Providers</th>
<th>Program Planning / Management / Consulting</th>
<th>Standard Operating Procedures</th>
<th>DSCSA Information Sharing (TI, TS, TH)</th>
<th>Security Storage and Retrieval</th>
<th>Barcode Printing</th>
<th>Inventory Management</th>
</tr>
</thead>
<tbody>
<tr>
<td>HDMA&lt;sup&gt;HC&lt;/sup&gt;</td>
<td>Axway&lt;sup&gt;HC&lt;/sup&gt;, SPP</td>
<td>1WorldSync&lt;sup&gt;HC&lt;/sup&gt;, SPP</td>
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<td>Deloitte Consulting LLP&lt;sup&gt;HC&lt;/sup&gt;</td>
<td>1WorldSync&lt;sup&gt;HC&lt;/sup&gt;, SPP</td>
<td>Oracle&lt;sup&gt;HC&lt;/sup&gt;, SPP</td>
<td>Bar Code Graphics, Inc.&lt;sup&gt;SPP&lt;/sup&gt;</td>
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**Legend:**
- **HC** – GS1 Healthcare US Member
- **SPP** – Solution Partner Program
- **CBP** – Certified Barcode Professional
### SOLUTION PROVIDER CONTACT INFORMATION

**1WorldSync**  
[www.1worldsync.com](http://www.1worldsync.com)  
Contact: Kelly Kucera, _kkucera@1worldsync.com_  
Serves: Large, Medium and Small Companies  
**Areas:**  
- Program Planning / Management / Consulting  
- DSCSA Information sharing (TS, TI, TH)  
- Inventory Management  
- Security / Storage & Retrieval

**Axway**  
Contact: Atif Chaugtai, _achaughtai@axway.com_  
Serves: Manufacturers – Large & Medium companies  
**Areas:**  
- DSCSA Interpretation  
- DSCSA Information sharing (TS, TI, TH)  
- Line Level Serialization Solutions  
- Security / Storage & Retrieval  
- Pharmacy Systems

**Bar Code Graphics, Inc.**  
[http://www.barcode.graphics/](http://www.barcode.graphics/)  
Contact: Andy Verb, _averb@barcode.graphics_  
Serves: Manufacturers & Wholesalers of all sizes  
**Areas:**  
- Barcoding (origination & testing)

**D2 Pharma Consulting**  
Contact: Dan Steiber, _dan.steiber@d2rx.com_  
Serves: Medium & Small companies  
**Areas:**  
- DSCSA Interpretation  
- Program planning / Consulting  
- Standard Operating Procedures
# SOLUTION PROVIDER CONTACT INFORMATION

**Deloitte Consulting LLP**  
[www.deloitte.com](http://www.deloitte.com)

Contacts:  
- Michael Delone, Principal [mdelone@deloitte.com](mailto:mdelone@deloitte.com)  
- Mark Lutostansky, Principal [mlutostansky@deloitte.com](mailto:mlutostansky@deloitte.com)  
- Rajesh Singh, Senior Manager [rajessingh@deloitte.com](mailto:rajessingh@deloitte.com)

Serves: All size companies  
Areas:  
- DSCSA Interpretation  
- Program planning / Consulting  
- Standard Operating Procedures  
- DSCSA Information sharing (TS, TI, TH)  
- Barcode printing/reading  
- Inventory Management  
- Line Level Serialization Solutions  
- Security / Storage & Retrieval  
- Pharmacy Systems  

**Dirk Rodgers Consulting, LLC**  

Contact: Dirk Rogers, [Dirk@DirkRogers.com](mailto:Dirk@DirkRogers.com)

Serves: All size companies  
Areas:  
- DSCSA Interpretation  
- DSCSA General Program Consulting

**Ken Traub Consulting LLC**  
[www.kentraub.com](http://www.kentraub.com)

Contact: [info@kentraub.com](mailto:info@kentraub.com)

Serves: All size companies  
Areas:  
- DSCSA Interpretation  
- DSCSA General Program Consulting  
- DSCSA Information sharing (TS, TI, TH)

**Omega Design Corporation**  
[www.omegadesign.com](http://www.omegadesign.com)  
[www.unitlevel.com](http://www.unitlevel.com)

Contact: [info@kentraub.com](mailto:info@kentraub.com)

Serves: All size companies  
Areas:  
- Barcode printing/reading  
- Line Level Serialization Solutions
### SOLUTION PROVIDER CONTACT INFORMATION

**Oracle**  
Contact: John Danese, [john.danese@oracle.com](mailto:john.danese@oracle.com)  
Serves: Large & Medium companies  
**Areas:**  
- DSCSA Information sharing (TS, TI, TH)  
- Inventory Management  
- Security / Storage & Retrieval

**Pharma Logic Solutions**  
[http://www.pharma-logic.com](http://www.pharma-logic.com)  
Contact: [info@pharma-logic.com](mailto:info@pharma-logic.com)  
Serves: All size companies  
**Areas:**  
- DSCSA Interpretation  
- DSCSA General Program Consulting  
- Standard Operating Procedures  
- DSCSA Information sharing (TS, TI, TH)  
- Barcode printing/reading  
- Line Level Serialization Solutions  
- Security / Storage & Retrieval

**rfXcel Corp.**  
[http://www.rfxcel.com](http://www.rfxcel.com)  
Contact: Jack Tarkoff, [jtarkoff@rfxcel.com](mailto:jtarkoff@rfxcel.com)  
Serves: All size companies  
**Areas:**  
- DSCSA Interpretation  
- DSCSA Information Sharing (TS, TI, TH)  
- Line Level Serialization Solutions  
- Security / Storage & Retrieval

**TECSYS**  
Contact: Rick Watkinson, [rick.watkinson@tecsys.com](mailto:rick.watkinson@tecsys.com)  
Serves: Medium to large companies (wholesaler, 3PL, and dispenser)  
**Areas:**  
- Inventory Management

**TraceLink Inc.**  
[http://www.tracelink.com](http://www.tracelink.com)  
Contact: Brian Daleiden, [bdaleiden@tracelink.com](mailto:bdaleiden@tracelink.com)  
Serves: All size companies  
**Areas:**  
- DSCSA Interpretation  
- Program planning / Consulting  
- DSCSA Information sharing (TS, TI, TH)  
- Line Level Serialization Solutions  
- Security / Storage & Retrieval
SOLUTION PROVIDER CONTACT INFORMATION

USDM, LLC  
http://www.usdm.com/  
Contact: Grant Hodgkins, ghodgkins@usdm.com  
Serves: All size companies  
Areas:  
• DSCSA Interpretation  
• DSCSA General Program Consulting  
• Label Design and Implementation  
• GS1 Conversion Planning (for structuring programs to drive GS1 barcodes, transactions, and master data adoption)

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