1. **Revision Log**

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| Revision Log | | | | | |
| Revision Level | Revision Date | Section | Description | | Revised By |
| REL | 6/24/2016 | ----- | Initial release of lot traceability standards | | AS, RK |
| A | 9/23/2016 | 5.9 | Added information for Honda-specific requirements | | SR |
| B | 3/28/2019 | Title | Added “Global Standard” to the document title | | DK |
| C | 7/29/2019 |  | Mass update, complete re-write to standard | | NT |
| D | 12/1/23 | Header | Replaced GHSP logo with newer version | | B. Balok |
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| Approval: | | CN: RS, FS | | MX: JH | |
| US: JA | | Other (as req’d): DRW | |

1. **Purpose:** 
   1. To define the global standard for tracking lot/serial number information within GHSP manufacturing facilities.
2. **Scope:** 
   1. This global standard applies to all GHSP manufacturing facilities.
3. **Definitions:** 
   1. PLC - Programmable Logic Controller
      1. An industrial digital computer which has been ruggedized and adapted for the control of manufacturing processes.
   2. Tag
      1. A method for assigning and referencing memory locations within a PLC.
   3. Trigger
      1. A PLC tag associated with an event.
4. **References:**
   1. IT-PR-X16-MRR IT Checklist
   2. IT-PR-X17-Add Packout Shortcut
   3. IT-WI-MFG-X02-Add Part Identifier GHSP Packout
   4. IT-WI-MFG-X03-Using GHSP Packout
   5. CP-WI-MFG-X315-Global Standard Data Acquisition
5. **Method:** 
   1. **Guideline**
      1. Plant Manufacturing Engineering group to review critical component entry points and customer/internal traceability requirements.
      2. Plant Manufacturing Engineering group to review traceability requirements with GHSP Functional Business Analyst.
      3. Plant Manufacturing Engineering group to review traceability requirements with PLC vendor/internal PLC group.
      4. PLC programmer will create read/write functionality within program to communicate with GHSP’s current traceability solution.
         * Example: Read/Write trigger will be the communication bridge between PLC and traceability solution. PLC will set bit trigger to 1 and wait until traceability solution has reset the bit back to 0.
         * During this process, the traceability solution will perform the read/write operation as requested.
      5. GHSP Functional Business Analyst will add the work center and PLC tags provided by the PLC programmer into traceability solution.
      6. GHSP Functional Business Analyst will work with Infrastructure group to complete network communications setup.
      7. GHSP Functional Business Analyst will work with PLC programmer to verify communications are connected and working as intended.
      8. GHSP Functional Business Analyst adds table reports for Plant Manufacturing Engineering to verify machine data is accurate.
   2. **Packout**
      1. Reference IT-PR-X16-MRR IT Checklist to get IP address subnet and required hardware/software.
      2. Packout PC or Thin Client and printer should be hard wired to the network switch.
      3. Based on application, Packout to be set up by 1 of the 2 methods:
         * Manual (Operator Loading)
           + Operator either scans part with Barcode Scanner or the PLC pushes barcode information via a keyboard wedge.

Preferred equipment when using a keyboard wedge:

MicroRidge WedgeLink SP

RTA Module

* + - * Auto (Machine/Robot Loading)
        + SCADA solution collects traceability information, via the PLC, and relates information to a temporary Container ID.
        + Associate then scans Container ID, at an offline Packout station, into Packout system to automatically validate all parts assigned to Container ID.

1. **Records:** N/A