

Tag Data JRG
Summary of User and TID Memory Requirements
presented to Healthcare and Life Sciences IAG





Tag Data Joint Requirements Group (TD JRG)

- JRGs Overview: Joint Requirements Groups brings together the End Users and the Technology Providers for dialogue to reach a common understanding on the needs of the End Users and the capabilities of the technology.
- TD JRG Questionnaire: Tag Data Joint Requirements
 Group (TD JRG) created a questionnaire and requested that
 all EPCglobal end users complete the on-line tool to describe
 their application and convey requirements for user memory
 and tag ID.
- TD JRG Requirements Doc: The TD JRG requirements document has been posted for comment for the past two weeks. The comment period has now closed, but additional IAG input is welcomed.



Summary of Questionnaire Results

- 56 Distinct use cases were submitted and described representing 8 different industry groups
- HLS submitted just over 10% of the use cases
- While the questionnaire was designed to gather requirements from End Users who intend to use User Memory and/or Tag ID, the results clearly specify that not all End Users have such a need:
 - The Tag Data Standards shall support tags with no user memory

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The Tag Data Standard memory format shall support a mixed tag population of tags with varying amounts of user memory (including tags with no user memory).

EPCglobal



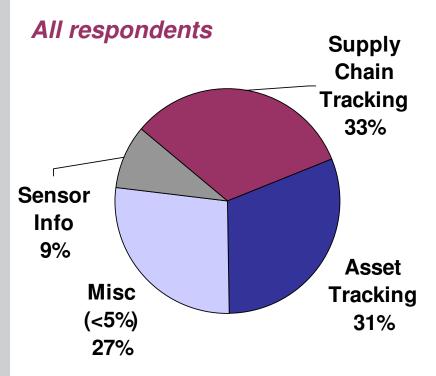
Questionnaire Results - Summary

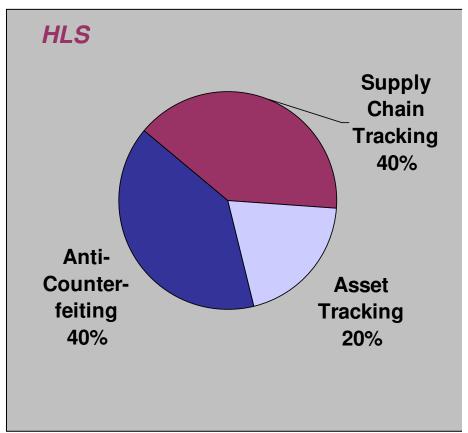
- Actual results of all respondents follow
- HLS results are compared to all respondents
- TD JRG still welcomes your comments, <u>irg_td-chair@lists.epcglobalinc.org</u>
- Your input and ideas are requested for HLS





What application are you referencing in answering the User Memory Questionnaire?

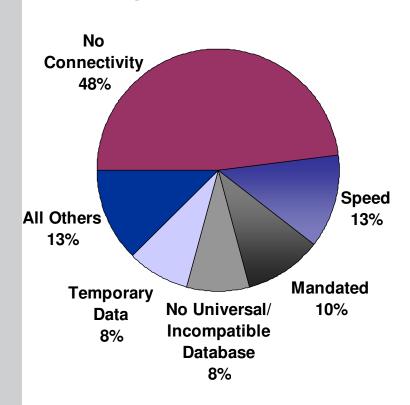


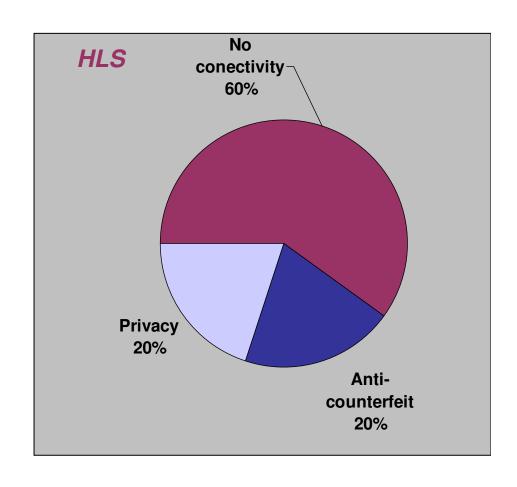






Why should the information reside on the tag rather than accessing it via lookup?









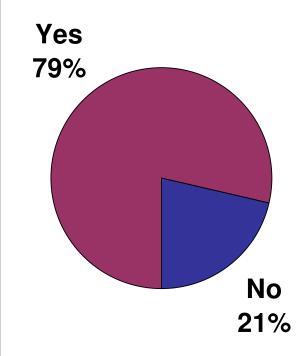
What data standards are you currently using (select all that apply)

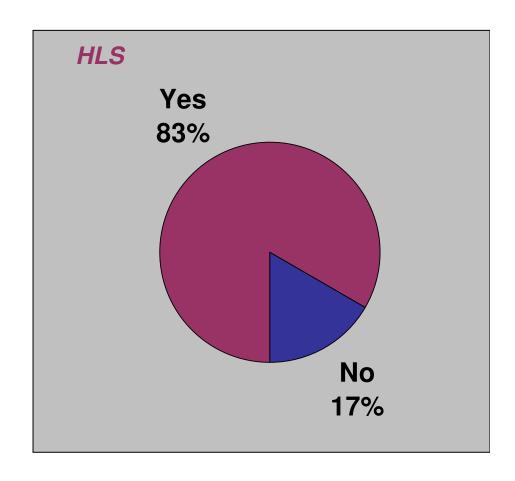
- The majority of all respondents indicated they are currently using Al's, followed closely by Dl's and/or the requirement for a mixed environment.
 - Aerospace uses TEIs and many use open system standards (IATA, AAR, UPU, etc.).
 - A few respondents use proprietary standards.
- HLS identified Al's and Dl's, with the vast majority (80%) indicating they are currently using Al's only





Does your organization need to write data to user memory?

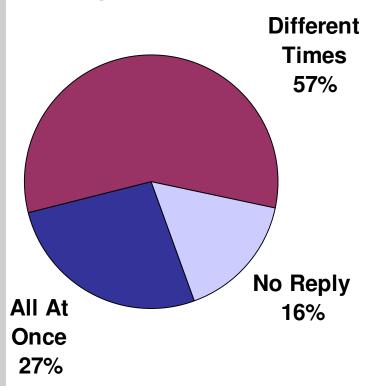


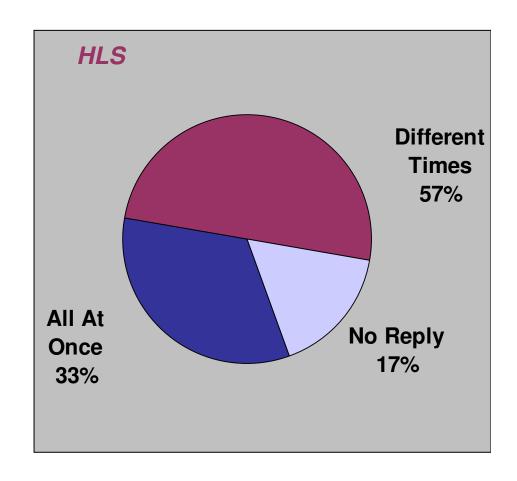






Do you write data all at once or at different times over the product lifecycle?

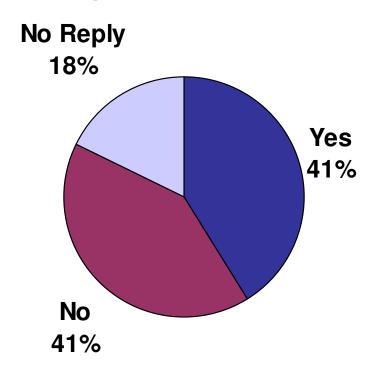


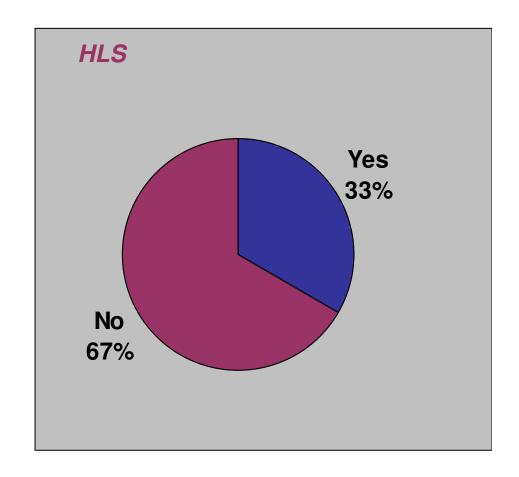






Do supply chain partners need to have access to write to your tag?



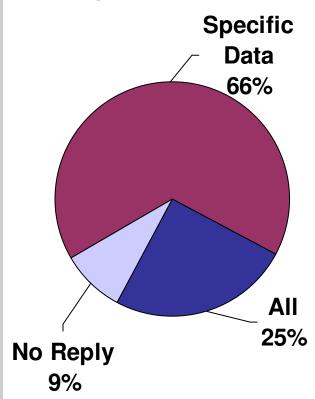


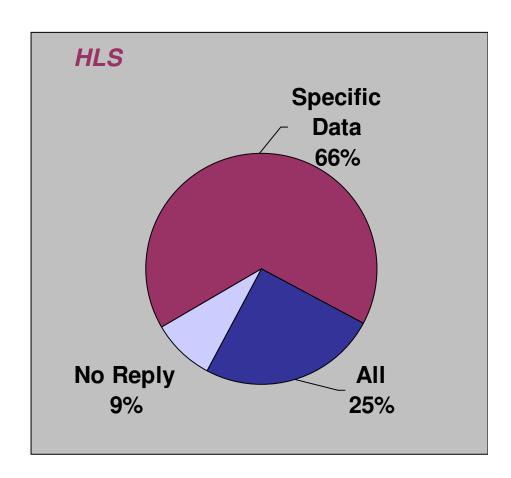




When reading user memory, do you want to read all or only pieces at specific points in the life cycle?

All respondents



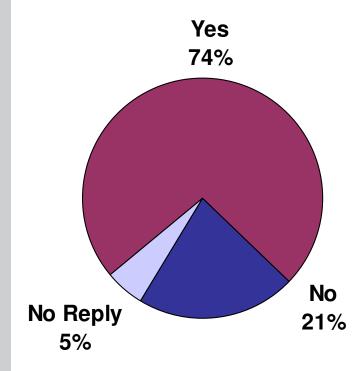


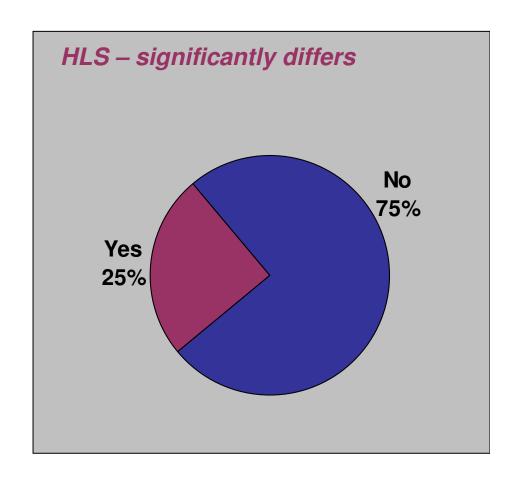




Is write locking required?

All respondents

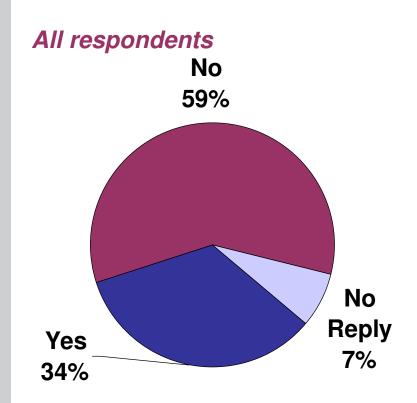


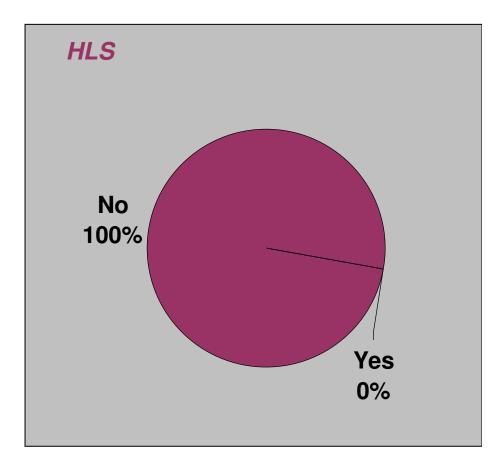






Is read locking required?







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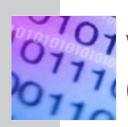


What is your requirement for reading speed (in tags per second)?

- Wide variation by industry & application
- HLS identified a need to read nested Tags at 3-10 TPS and **Conveyor applications** at 5 TPS

All respondents	Min	Max	Avg
Anti- counterfeiting	1	1	1
Asset Management	1	600	161
Blood Bags	5	5	5
Nested Tags	5	1,000	188
Part Identification	50	600	200
Sensor	0	0	0
Shipping Container	1	20	4
Tag on Conveyor	0.5	600	72
Tags on Shelf	50	50	50
WIP	5	5	5





What is your requirement for writing speed (in tags per second)?

- Wide variation by requirement
- HLS identified a need to write to tags from 1 to 300 TPS

All respondents	Min	Max	Avg
Asset Management	1	600	200
Encoder/ Applicator	1	1	1
Nested Tags	1	500	83
Part Identification	1	1	1
Shipping Container	1	1	1
Tag on Conveyor	0.5	300	32
WIP	10	10	10

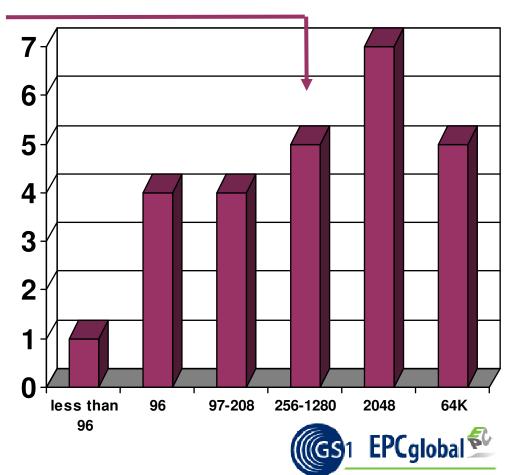




What is your requirement for tag size (if known)?

One HLS respondent indicated a known tag size. That respondent indicated 1024 bits.

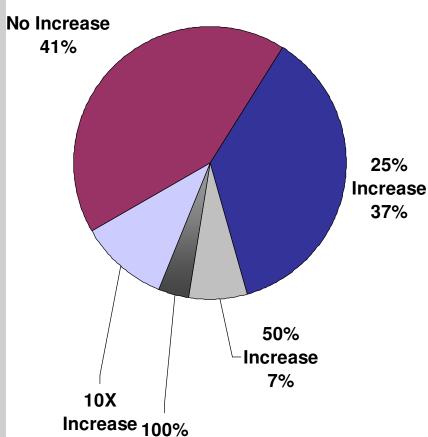
All responses

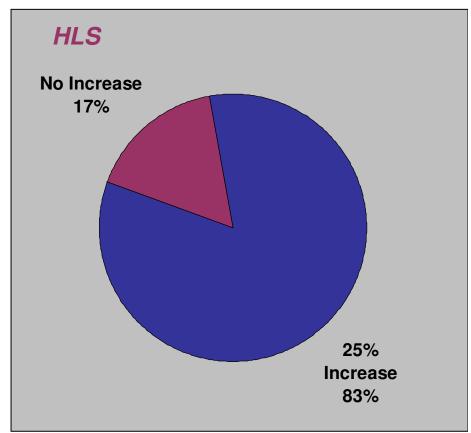




What cost premium are you willing to pay for user memory?

All respondents



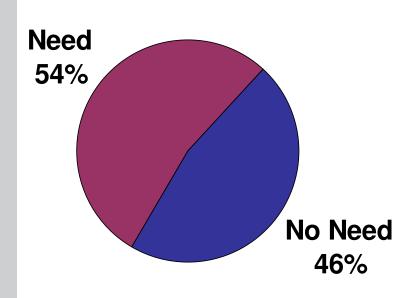


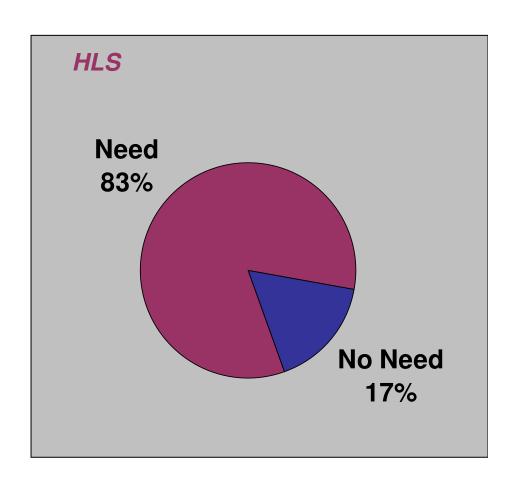


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Do you have a need to have each tag uniquely identified independent of the EPC?



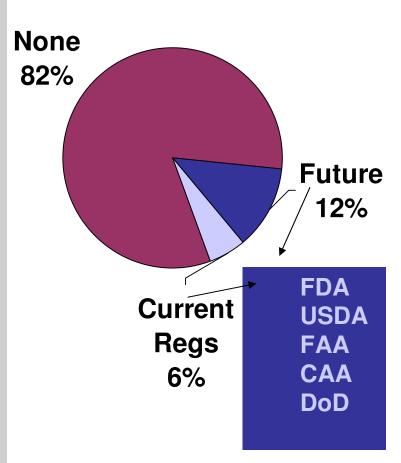


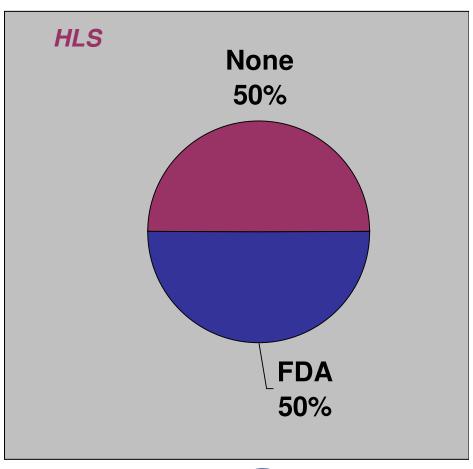




What government regulations, if any, affect memory usage in your application?

All respondents







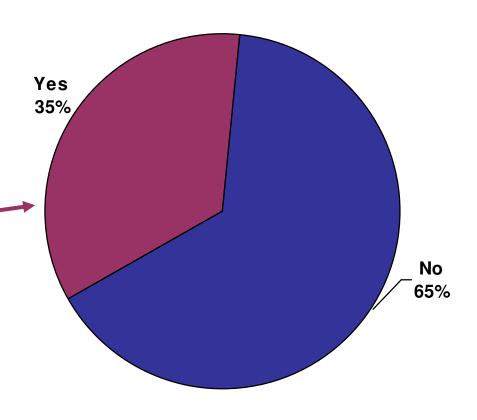
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Do you need to identify material that would be classified as Hazardous? (same for special handling)

65% of all respondents to this question required HazMat identification -45% of those needed to know immediately (not via lookup)

One HLS respondent indicated a need to identify Hazardous materials – that respondent needed to know immediately





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TD JRG Results REMINDER

- A relatively few HLS respondents were included in the overall results
- That works if it meets with the HLS IAG approval
- If not, you have an opportunity to provide more data
- TD JRG still welcomes your comments, <u>irg_td-chair@lists.epcglobalinc.org</u>





THANKS!

