Application Check List

General

1. Company:
2. Address:
3. Name:
4. Do you have previous experience in automation?
5. What is the intended use of the system?
6. Is the intended use of the system in-vitro-diagnostics? ☐ Yes ☐ No
7. Is system validation and documentation under GLP required? ☐ Yes ☐ No
8. Which acceptance criteria for the system are appropriate?

   ☐ Basic liquid and plate handling setup for defined assay
   ☐ Applicative specification (e.g. quantity of DNA, dilution factors, direct comparison to manual approach)
   ☐ Other:

Basic Workflow

9. If there is a main assay that could serve as an acceptance criteria, please describe the general steps, the robot should perform (see table)

No	Labware for Step	Instrument	Task	Origin of labware	Target of Labware	Heating, Cooling, Shaking	Pipetting volumes and modes
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							

10. Is there a specific chemistry involved (Kit Manufacturers, Assay Manufacturers,etc.)? ☐ Yes ☐ No

    If Yes, which one(s)?

11. Is there any specific labware involved? ☐ Yes ☐ No

    If Yes, which one(s)?

12. What is the desired throughput?

    samples per day/hour

13. What is the desired walk-away time or batch size?

    hours, batch size of samples

Hardware

14. Which instruments are involved?

    Hamilton:
    ☐ STARlet ☐ STAR ☐ STARplus workstation
    4 independent pipetting channels
    ☐ 96 probe head
    ☐ integrated plate handler
    ☐ external plate handler, SWAP ☐ long ☐ short

    3rd Party Devices:
    ☐ Storage/Incubator
    ☐ Washer
    ☐ Reader
    ☐ Centrifuge
    ☐ Cycler
    ☐ Other:

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Software and Data Handling

15. Is method programming to be done by Hamilton? ☐ Yes ☐ No

16. Is work list processing required? ☐ Yes ☐ No

    If Yes, please
    - specify file type (.txt,.mdb,.xls,other):
    - describe the basic content of the worklist (volumes, positions, etc.):
      - ☐ Target Positions
      - ☐ Source Positions
      - ☐ Volumes per Well
      - ☐ Dilution Factors
      - ☐ Barcode Information
      - ☐ Other:

17. Is Sample Tracking required, i.e., generation of a result file with pipetting pattern and error status information? ☐ Yes ☐ No

18. Are readout data to be merged with pipetting information from tracker file to generate a result file? ☐ Yes ☐ No

19. Does Hamilton need to provide/create a data base of information (plate trails, list of registered plates, etc.)? ☐ Yes ☐ No

20. Is LIMS integration required? ☐ Yes ☐ No

    If yes, please name type and manufacturer of LIMS:

    What is the interface to HAMILTON Vector Software?
    ☐ Files ☐ Serial Communication

    Is the communication one-way (only reading OR writing from LIMS) or two-way (reading from and writing to LIMS) ?
    ☐ One-way ☐ Two-ways

Contact your local HAMILTON representative or infoservice@hamiltonrobotics.com for questions.