**Possible Future Command Line Inputs for Use by OSIRIS**

**August 27, 2015**

1. Prototype Input Directory = directory for .fsa files
2. Ladder Information Directory = directory for marker set .xml files = Config Directory
3. Parent Directory For Reports = directory to contain reports, grouped under input directory named for lowest level of full path
4. Optional output subdirectory to allow multiple runs within same output directory without overwriting previous runs.
5. Marker Set Name
6. Output Level = severity trigger for critical notices
7. Message Book Path = directory for message book
8. Standard Settings File Name = name of standard settings file (.xml) within (2).
9. Lab Settings File Name (or GenericLabSettings.xml or defaultlab.xml) = name of lab settings file (.xml) within (2)
10. Default Min Sample RFU (double)
11. Min Lane Standard RFU (double)
12. Min Ladder RFU (double)
13. Min Interlocus RFU (double)
14. Graphics Directory = output directory = (3) (Redundant)
15. Lane Standard Name = name of lane standard to use with (4)
16. Raw Data String = character to tell if using raw data in .fsa or analyzed data (almost always raw)
17. Default Sample Detection Limit (RFU) (double)
18. Analysis Min RFU Threshold Override (RFU) (integer for channel, double for value)
19. Detection Limit Threshold Override (RFU) (integer for channel, double for value)

**To Add:**

1. Named set and protocol of Message Book, Standard Settings, Lab Settings
2. Create file format for above so that only command line parameter is name of command inputs. File should consist of multiple lines of form *Argument* = *Name*, in no particular order, with omissions tolerated by using defaults.

**Note:**

Format for file names:

1. All configuration files from same named group, *GroupName*, with same protocol, *Protocol*, in sub-directory with name consisting of *GroupName* plus *Protocol*, neither of which should contain a “\_” character.
2. Message book name = *GroupName\_Protocol\_*MessageBook.xml
3. Lab settings file name = *GroupName\_Protocol\_*LabSettings.xml
4. Standard settings file name = *GroupName\_Protocol\_*StdSettings.xml

**Osiris Input Options:**

1. User inputs from GUI, sent via standard input in *Argument* = *Name* format, one “equals” per line; blank line signifies “done”
2. Named inputs specified by file name and directory path, file in format from (1)
3. Same as (2) but with specific overrides (e.g., min RFU’s, lane standard file, or output directory)
4. Standardized name for input file could be *InputName\_*InputSettings.txt
5. Communicate which option via command line
6. GUI should remember named input files to recall using drop down list
7. GUI should enable users to create new named input files and to edit old ones
8. Named input files should all be in subdirectory of config directory, perhaps named “NamedInputFiles”
9. Could design as follows: GUI asks for named input file to load; if so, GUI sets all values in analysis dialog box; if anything changed, GUI gives option to save or create new named input file; at run, GUI puts data into standard input for Osiris analysis; this gives Osiris analysis executable only one input option, namely, (1), while giving all the capabilities above

**Input Strings (actual order of lines is unimportant, but each line must end in a semicolon, with last line a lone semicolon):**

1. InputDirectory = *name*;
2. LadderDirectory = *name*;
3. ReportDirectory = *name*;
4. OutputSubdirectory = *name*; (optional)
5. MarkerSetName = *name*;
6. LaneStandardName = *name*;
7. CriticalOutputLevel = *number*;
8. MinSampleRFU = *number*;
9. MinLaneStandardRFU = *number*;
10. MinLadderRFU = *number*;
11. MinInterlocusRFU = *number*;
12. RawDataString = *character*; (‘a’ or ‘A’ means “analyzed”; anything else means “raw”)
13. UserNamedSettingsFiles = *T* or *F*; (*T* means use user-named settings files)
14. SampleDetectionThreshold = *number*;
15. AnalysisThresholdOverride:*channel\_number* = *number*;
16. DetectionThresholdOverride:*channel\_number* = *number*;

If (13) = *T*: (After path in (19), there is a subdirectory named:

*MarkerSetName*\_*GroupName*\_*Protocol*)

1. GroupName = *name*;
2. ProtocolName = *name*;
3. PathToNamedSettingsFiles = *name*;

If (13) = *F*: (These are all directories, because the names are set.)

1. FullPathToMessageBook = *name*;
2. FullPathToLabAndStdSettings = *name*;

**Note: In case of user named settings files, file name prefix =**

***MarkerSetName*\_*GroupName*\_*Protocol*\_**