**Data Analysis Developer’s workshop focussed on DAWN.**

**Proposed Agenda**

**30th September and 1st October 2013, Diamond G59**

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| **Monday 30th September 2013**  **Session 1**: Introduction | | |
| Time | Item | Presenter / lead developer |
| 09:00 | Welcome to workshop | Matt Gerring |
| 09:15 | Introduction to Dawn for new developers. New features in Dawn 1.2 and 1.3 (from a users perspective) | Matt Gerring and other members of the team |
| 10:15 | Review of governance of Dawn as currently featured on the [dawn site](http://www.dawnsci.org/documentation/contributing-to-dawn) | All |
| 10:30 | Break |  |
| **Session 2a**: Technical Session: New APIs and how to use them (including source code) | | |
| 10:45 | Presentation of APIs (10 minutes each+ questions):   * Changes to plotting API * Mathematical expressions using JEXL * NCD Data reduction service / algorithm * Ring fitting algorithm for diffraction images * Conversion service | Matt Gerring  Jacob Filik  Irakli Sikharulidze  Peter Chang  Matt Gerring |
| 11:45 | Report from Kitchwa coders on recent developments with Dawn | Jonah Graham |
| 12:15 | Lunch (RAL Canteen) |  |
| **Session 2b**: Management Session: Dawn requirements, possible areas to consider | | |
| 13:30 | Review of requirements for future versions of Dawn including GDA analysis requirements.  *[Based on Jira and other known requirements, we will identify future features. We will not attempt to quantify with how these are delivered. The session is for brainstorming what could be delivered.]* | Alun Ashton +  Andy Goetz |
| 14:15 | Ability to create custom loaders, actors, mathematical operators etc. directly in Dawn. | Mark Basham |
| 14:30 | Planned requirements gathering exercise in conjunction with the SSI | Matthew Gerring / Mark Basham |
| 14:40 | Review of usability issues with Dawn for spectroscopy and suggested design of a new perspective for browsing data. (10 mins + discussion) | Jacob Filik |
| 15:00 | Break (incl. informal discussion on requirements) |  |
| 15:30 | Discussion on ***comparing data*** current mechanisms:   * Compare facility in DExplore + expression user interface added by Irakli * History tool * ‘Spectrum’ perspective   What are the design requirements for the future and linking these disparate designs? | All  (Matt Gerring, Chair) |
| 16:30 | Discussion on ***calibration of 2D data***, current mechanisms:   * NCD Calibration * Diffraction tool calibration * Diffraction view calibration   What are the design requirements for the future and linking these disparate designs? | All  (Mark Basham, Chair)  Irakli Sikharulidze  Peter Chang  Baha El-Kassaby |
| 17:30 | Summary of day | Matt Gerring |
| 18:00 - ? | Close |  |
| **Tuesday 1th of October 2013**  **Session 3a**: Mixed Session: Testing and QA | | |
| 09:00 | Current testing strategies   * Overview and junit tests * Squish tests in automated builds at Diamond * New squish tests being run at ESRF | Matt Gerring  Jacob Filik  Olof Svensson / Jonathan Pommier (if attending) |
| 09:45 | *Manual testing and sign off before releases*. Do we need a standard excel based or cheat sheet based acceptance test? How can we be sure a release is ready? Should there be a sign off procedure including users? What about external contractors for increasing testing effort? | All |
| 10:30 | Break |  |
| **Session 3b**: Technical Session: How to deploy Dawn in a web page | | |
| 11:00 | Presentation of RAP framework   * Overview of RAP 2.1, how it is used and how it works * Presentation of current prototype incl. pros and cons of single sourcing. * Discussion of possible uses of a RAP version | Baha El-Kassaby  Matt Gerring  All |
| 12:00 | Lunch |  |
| **Session 4:** Management Session: | | |
| 13:00 | Expected areas of software development in the next six months at Diamond. This will include GDA analysis requirements. | Alun Ashton, Matthew Gerring, Mark Basham |
| 13:45 | Expected areas of work in the next six months at ESRF (including development which may be done by Passerelle and work done using/improving Dawn). | Andy Goetz, Olof Svensson |
| 14:15 | Expected areas of work in the next six months at EMBL (providing Sandor and Gabor are able to attend) | Sandor Brockhauser, Gabor Naray |
| 14:30 | Reports from other contributors to Dawn | Other |
| 14:45 | Break |  |
| 15:15 | Summary of workshop, suggested dates and venue for next meeting | Matt Gerring |
| 15:30 | AOB | All |
| 15:45 - close | Open session involving installation for new developers and coding for other developer groups. | All |