

Minutes of the ADS MRO & L Network NFF WG 02 – Held on 07 Nov 2012 at the Defence Academy, Shrivenham

Attendees:

Giles Huby (Chairman)	Copernicus Technology Ltd
Brian Bell	BAE SYSTEMS
Vimbai Fedrick	MOD, Test & Measurement Policy
Matt Fletcher	Eyedot Europe Ltd
Peter Higgs	Peter Higgs Associates Ltd
Chris Hockley	EPSRC Centre in Through-life Engineering Services
Ian James	Aero Engine Controls
Prof Ian Jennions	Integrated Vehicle Health Management Centre
Phil Jones	British Airways Maintenance
Dr Samir Khan	EPSRC Centre in TES
Dave Kindred	BAE SYSTEMS
Chris Klass	Selex ES
Rob Morris	British Airways Maintenance
Angus Murray	BAE SYSTEMS
Chris Oakley	Cassidian Test & Services
Neil Pickthall	University of the Highlands & Islands, Perth Campus
Richard Pitman	Aviation, Aerospace & Defence KTN
Dr Paul Phillips (Secretary)	EPSRC Centre in TES

Item 1 – Opening Comments & Introductions.

- 1.1 The Chairman went round the table for introduction and recapped the initial aims of the WG for the new attendees.

Item 2 – Review of the NFF WG's Role

- 2.1 From the first meeting the initial role/objectives had been set as follows:

Generate a vision for NFF in UK ADS sectors

Share best practice

Bench-marking

Taxonomy (through TES Centre at Cranfield)

Review MOD LITS data for opportunity to create industry case study for NFF solution approaches

Track other research

2.2 Actions

- (3/7/12) TES Centre to publish Wiki for peer review of NFF taxonomy. **Ongoing.**

- (3/7/12) The NFF WG would review whether to make the Chair/Sec posts a 12-month lived post. It was agreed that this was not required. **Closed.**
- (3/7/12) The Secretary was to liaise with Wg Cdr Hawkins at Log NEC about access to LITS data for NFF analysis by the WG. **Ongoing.**
- The Chairman was to:
 - Contact the ADS MRO&L Network chairman to brief him on the progress of the NFF WG and to find out if NFF WG representation is needed at future MRO&L Network quarterly meetings.
 - Brief the next meeting on the structure and content of ARINC672 – Industry guidelines for reducing NFF.
 - Obtain permission from the chair of the AIAA¹ NFF Steering Committee to distribute copies of ARINC672 to NFF WG members for review.
 - Put Prof Jennions in touch with the Chair of the AIAA NFF Steering Committee, Mrs Lori Fischer, on the subject of NFF in mechanical components.
- The Secretary was to:
 - Add new attendees to the NFF WG's online public area on 'Smartsheet'.
 - Obtain all presentations from the meeting and upload them to Smartsheet.
- BA Maintenance (Phil Jones) undertook to provide access to maintenance data for NFF cost and impact analysis by the WG.
- Eyedot Europe Ltd (Matt Fletcher) undertook to look into the possibility of Mechanical systems which experience NFF

Item 3 - Updates on other NFF research and groups

- 3.1 The Chairman provided an update on the activities of the AIAA NFF Steering Committee.
- 3.2 The Secretary provided an update on the progress of the NFF research project within the EPSRC Centre in TES, including the details of several MSc studies being undertaken in connection with the NFF research.

Item 4 – WG Priority Areas Progress Review

- 4.1 The 3 main areas of focus at present were: Taxonomy, Benchmarking and the Maintenance Data Review.

¹ American Institute of Aeronautics & Astronautics

4.2 Discussion of this agenda item was commenced following presentations by Dr Samir Khan on NF taxonomy research conducted to date by the TES NFF project; and by Ian James of Aero Engine Controls about previous process work undertaken in this area. The presentation examined the various chains of events possible in NFF scenarios, and this led to the conclusion that this was the logical starting place and foundation for the WG's activities.

4.3 **Actions.**

- It was agreed that the NFF WG would compile a NFF 'chain of events' flow-chart to provide a foundation for standardising taxonomy and identifying areas for improvement action. All attendees were requested to submit previous flowchart drafts and ideas to PP for co-ordination and review.

Item 5 - Any Other Business

5.1 The meeting was notified of the one-day [NFF Symposium](#) being held at Cranfield on Monday 18th March 2013. All NFF WG members were welcome to attend. Those interested in attending should contact the Secretary.

Item 6 - Date of Next Meeting

6.1 The next meeting was planned to align with the NFF Symposium, therefore the NFF WG would be held at Cranfield the day after, on Tuesday 19th March 2013. The Secretary was to notify venue/timings information nearer the time.