OPEN NAVIGATION SURFACE WORKING GROUP

TELECONFERENCE SUMMARY

2006-03-20
Hosted by SAIC Teleconferences

DRAFT VERSION
2006-03-22

1   Introduction

This document details the result of the teleconference held at 0900EST on 2006-03-20 to follow up action items subsequent to the Candidate Release (CR) of the Open Navigation Surface (ONS) Project (the CR was posted 2006-02-08), and plan for new developments towards the Full Release (FR). The meeting was kindly hosted by Shannon Byrne using the Science Applications International Corporation's teleconference facility. The summary of all meetings and teleconferences of the Open Navigation Surface Working Group (ONSWG) can be obtained from the project's web-site, http://www.opennavsurf.org. For a list of participants, see section 0.

In the following, names people with action items are shown in **BOLD SMALL CAPS**; expected deadline release dates are shown in red. Sizes of variables are indicated by 'U' for unsigned, 'S' for signed, 'F' for floating-point, and a size in bits (e.g., U8 is an eight bit unsigned integer, F64 is a 64-bit (double precision) floating-point number). Data sizes are given in bytes (B) with the usual convention that the SI multipliers are taken to mean multiples of 2^{10}B (i.e., 1kB = 2^{10}B = 1024B). The acronym 'CR' means 'Candidate Release' (i.e., a release of the library for comments) and 'FR' means 'Full Release' (i.e., release V1.0 of the library).

2   Summary of Discussion

2.1   Full Release Issues

2.1.1   Conversion of CVS Repository to SubVersion

The SubVersion (SVN) repository is now confirmed as working from outside of CCOM, and is now the only canonical repository of ONS code. All members of the Working Group can obtain access by calling Nathan Paquin, CCOM's system administrator, as advised through separate e-mail. Most users are utilizing Tortoise SVN client for Win32 development, and the standard command-line tool for Linux. Actions resolved.

2.1.2   Website Disclaimer Statement

Not all members of the group have been able to review the disclaimer on the website, and need to ensure that this is acceptable to them, and their employers, before FR. Action is continued. (Action: **ALL**)

2.1.3   Build System

The build system for Linux is now confirmed as working for the API code and the external libraries, and has been tested with Red Hat Enterprise Linux 3.0 and 4.0. In discussion, it was agreed that there should be one script that is capable of building the entire library from the top level (Action: **MCDONALD**), and that the whole system should be tested *ab initio* after this (Action: **PATON**). There was some discussion of developing a suite of regression tests around the build system and the example programs, but the participants agreed that this should be done after the build system settles down a little more.

2.1.4   Example Program Development

The example programs have not advanced since the last meeting due to travel constraints on the participants. However, this should be resolved before 2006-03-24. Action is continued. (Action: **PATO N**).

2.2   Documentation

2.2.1   Code API Documentation

The group agreed that the use of `doxygen` (www.doxygen.org) as a documentation tool for the API was appropriate and not significantly more effort than other types of documentation that had been considered. This was therefore adopted. In discussion, it was agreed that the documentation should be placed in the docs/api directory, and that the standard documentation configuration could be used with minor

modifications. This has already been done (Calder) and the group agreed to adopt this model initially pending further comments and modifications. (Action: **CALDER**).

2.2.2   *BAG File Specification Document*

The group discussed the restructuring of the File Specification Document (FSD) as suggested via separate e-mail to the discussion list by Calder on 2006-02-20. All agreed that the suggested restructuring of the document could take place as outlined in this e-mail, and that this was possible within the timeframe of the FR. The mechanics were agreed to be that the individual authors would provide their components in Microsoft Word format to Moggert (Action: **BYRNE**, **CALDER**, **LADNER**, **LAMEY**, **MCDONALD**), who would then combine them and provide the result to the list via the SVN server for comments. (Action: **MOGGERT**).

2.3   Other business

2.3.1   *Distribution List for Software*

A question was brought forward (Fabre) as to the availability of the list of people who have downloaded the software from the website. It was confirmed (Calder) that this list exists on the server at CCOM/JHC, and there was no immediately obvious reason why this could not be made available to other members of the Working Group if necessary. However, the website does make it clear that the software is freely available to anyone, and that the e-mail addresses provided as part of the download will not be used for any other purpose. No action currently required.

2.3.2   *Aliases for Open Navigation Surface Website*

It was pointed out that 'opennavsurf.org' currently resolves to the CCOM/JHC website, rather than the Open Navigation Surface website. This is an issue with configuration of the server at CCOM/JHC, and needs to be fixed. (Action: **CALDER**).

2.3.3   *Build System*

It was suggested (Depner) that the project might benefit for Linux/Unix builds in using a more modern build system such as SCons (www.scons.org). In discussion it was agreed that this is something that is not critical for FR, and therefore can be delayed until V1.1. No action currently required.

2.3.4   *Presence at Canadian Hydrographic Conference 2006*

A request (from Dr. David Wells, UNB) has been received to support presentations and discussion on BAG at the Canadian Hydrographic Conference 2006. In particular, the International Discussion Group on Uncertainty Management in Hydrography (IDGUMH) intend to have part or all of their meeting discuss BAG, its technology, implementation status in commercial products, and adoption status with Hydrographic Offices. (Dr. Wells is part of the organizing committee for this meeting.) They would like the group to take part in the meeting, and provide a presentation on the technology and current status of the project. The meeting is 2006-06-05.

In discussion, the group agreed that this was an appropriate idea, and that it should be supported with a suitable e-mail response to the organizers. (Action: **CALDER**.) There was some doubt, however, whether it would take up the whole of the meeting of the IDGUMH; something more along the lines of two hours would probably be sufficient. The group also confirmed that CARIS, IVS and SAIC would have representation at the conference, and would be able to give the vendor's side of the equation (Action: **LAMEY**, **PATON**, **BYRNE**), but agreed that we should make this an open invitation to other vendors who have downloaded the source code too. (Action: **CALDER**). Finally, the group agreed to try to find appropriate people at the HOs who would be able to make a statement on behalf of their organizations. (Action: **DEPNER** (NAVO), **RILEY** (NOAA), **LAMEY** (CHS)).

3   Summary of Action Items and Dates

The following actions and dates were agreed:

Person	Actions(s)	Section	Date
All	Review disclaimer statement on download page of website	2.1.2	FR
Byrne	Updates to FSD, send to Moggert	2.2.2	2006-03-26
	Confirm that SAIC will take part in CHC2006 event	2.3.4	2006-06-05
Calder	Provide doxygen configuration to SVN, and build documents	2.2.1	FR
	Updates to FSD, send to Moggert	2.2.2	2006-03-26
	Resolve alias issues with opennavsurf.org	2.3.2	ASAP
	Respond to IDGUMH re. CHC2006 event	2.3.4	2006-03-22
	Invitation to other vendors to take part in CHC2006 event	2.3.4	2006-03-22
Depner	Identify contact at NAVO to take part in CHC2006 event	2.3.4	2006-06-05
Lamey	Updates to FSD, send to Moggert	2.2.2	2006-03-26
	Identify contact at CHS to take part in CHC2006 event	2.3.4	2006-06-05
	Confirm that CARIS will take part in CHC2006 event	2.3.4	2006-06-05
Ladner	Updates to FSD, send to Moggert	2.2.2	2006-03-26
McDonald	Check in build script for whole library	2.1.3	FR
	Updates to FSD, send to Moggert	2.2.2	2006-03-26
Moggert	Assemble FSD, check in, e-mail to confirm review status	2.2.2	ASAP
Paton	Test Linux build system for FR after build script checkin	2.1.3	FR
	Construct and test example read/write programs	2.1.4	FR
	Confirm that IVS will take part in CHC2006 event	2.3.4	2006-06-05
Riley	Identify contact at NOAA to take part in CHC2006 event	2.3.4	2006-06-05

Dates above in red are those which would result in a significant impact on other activities were they to slip, and are therefore critical. The release dates agreed previously are:
- Full: 2006-03-31

4   Next Meeting

The next meeting of the group will be held by teleconference at 1100EST on 2006-03-27. Details of connection number and passcode are to be arranged and distributed by e-mail to the development list. (Action: **BYRNE**.)

5   Participants

Shannon Byrne (SAIC Newport)
Brian Calder (CCOM/JHC)
Jan Depner (CCOM/JHC)
Dave Fabre (NAVOCEANO)
Webb McDonald (SAIC Newport)
Bill Lamey (CARIS)
Mark Paton (IVS Ltd)
Jack Riley (NOAA)