

## ICAT review by SSI - January 2012

### 17 February 2012

Alistair Mills

Project Manager

E-Science Department

Rutherford Appleton Laboratory, Oxford, England alistair.mills@stfc.ac.uk

### **Collaboration Overview**

### Observations

C01	The present users of ICAT have made a big commitment and require that is be sustained
C02	The ways of managing ICAT so far are satisfactory, and the present users are very satisfied
C03	The present users require assurance that their requirements will be met in the future
C04	The use of ICAT is likely to increase, and there is a need to resolve conflicting requirements
C05	The ICAT team recognises the need for more governance, process and policy
C06	There is a need to avoid staff turnover in the core ICAT team
C07	STFC should commit resources to ICAT so that it is not dependent on short duration contracts
C08	The ICAT team should allocate some of its resources to finding external funding



## Governance

### Observations

#### General

G01	Some happy users									
G02	Light touch	Light touci								
G03	More gove	GO10	The present ICAT team is cohe	The present ICAT team is cohesive and has good internal communication						
G04	Escience	G011	The fortnightly meetings are w	The fortnightly meetings are w Recommendations						
G05	A governar	GO12	The present ICAT team works	R01	ICAT team in Escience should lead the collaboration					
G06	STFC has	GO13	A single set of meetings has t	R02	Create a steering group with senior people from the stakeholders					
G07	eScience :	GO14	There are varied interests tear	R03	Define how an organisation joins the collaboration					
G08	Collaborati	GO15	Joining ICAT is easy and strai	R04	ICAT team in Escience to organise the Face to Face meetings					
G09	Balance th	GO16	In the future, there will be a ne	R05 Make a risk assessment to mitigate the effects of the loss of key individuals						
	GO17 New collaborators should be given a role which reliects their interests									



## **Communication and Outreach**

### Observations

CM01	Communication is reasonable effective						
CM02	The outreach role undertaken by ISIS has been	the adoption of ICAT by DLS, ILL, SNS					
CM04	Weekly Skype on-line workshops to demonstra	discuss technical matters would be useful					
CM05	When collaborators ask for feedback on proposale, or release condidates, there is little feedback.						
CM06	There is very little awareness of the existence						
0) 407	TI	R06	Ensure that someone maintains the outreach work				
CM07	There is no authoritative list of who is using ICA	R07	Provide ICAT mentors to help new adopters use ICAT				
CM08	No one is soliciting requirements from organisa		Trevide for thi memore to help new deepters are for th				
		R08	Develop a group of testers for pre-release software				
		R09	Encourage new adopters to spread the news of ICAT				
		R10	Provide weekly Skype on-line workshops to demonstrate and discuss technical matters				

Promote ICAT to a wider audience, and have them include it in proposals

Actively solicit feedback and grow the market for ICAT

R11

R12

# **Process**

### Observations

### Recommendations

Genera	eneral Requirements Process					R13	Define a collaborator induction process, including the allocation of a mentor
PR01					'	R14	Define a process for resolving conflicts of requirements
PR02	PR	08	The present	processe	s are satisfactory for the	R15	Publish the defined processes
	PR	09	The present	processe	s are ad-hoc and use se	R16	Create and operate a well defined process for dealing with requirements
PR03	PR	10	Not all of the	e stakehol	ders have requirements		
PR04	PE	Plar	ning Pro	cess		R17	Create and maintain a roadmap for the development of ICAT
PR05	PF		PR20 The present process uses the fortnightly		ess uses the fortnightly	R18	Create and operate a well defined test process
PR06					coo doco the follinghtly	R19	The ICAT team should be aware of, and involved with, all deployments of ICAT
PR07	PF	PR2	21 The mo	Test a	nd Roll-out	R20	Create and operate a well defined cycle of software releases
	PF	PR2	22 There a	PR25	There are good qualit	R21	Create and operate a handover process for the replacement of collaborators
	PF	PR2	23 There i				
	PF	PR26 PR24 There is		External testing is ca	Rel	lease 	
	PR18 There is a need to improve the prior		Upgrading a deployed	_   PR	R28 Progress has been made towards a six monthly release cycle		
				- PR	R29 It is important to avoid divergence and forks in the software		
	PR19 There are new requirements which are emerging				ments which are emergi	ĭ	R30 The occasional use of informal distribution by email should be deprecated

# **Policies**

### Observations Recommendations

De	pre	cation			R22	Define and	operate a deprecation	oolicy	
PC	001	Depreca	tion has t	o be handled carefully	R23	Define and	perate a code contribution policy		
PC	002	More pr	Code	contribution	R24	Define and	operate a release policy		
PC	003	There is	PO04 In the future, there may be a need to pro-			Include info	rmation in the software	repository on the provenance of change	
_			P005	A code contribution policy is required					
			P006	There is no code contribution policy, but t	his would	d be useful			
			P007	If there were more code contributors, then	e would t	Releas	se policy		
			P008	Sending small code changes by email wo	orks for th	ne n PO10	There is a need for a	reliable release schedule	
			P009	The use of tickets for code changes is ge	tting bett	er PO11	Changes in the trust	store should be explained in advance	
						P012	There are no release	notes or change log for ICAT 4.0	



# Support

### Observations

PS01	Support requests are handled well and quickly
PS02	Some support requests are not handled well
PS03	Some support responses assume more expertise than is reasonable

### Recommendations

R26 Take into account the expertise of the submitter when replying to support tickets



## Infrastructure

### Observations

### Google code

### State of infrastructure

IN01	Google code is widely accepted as a good environment for hosting the de		There is a need to remove old files from the code repository
INO2	is important that the Google code site be seen to be actively used		It is difficult to find information about infrastructure requirements

### Mailing lists

IN03	There is not enough use made of collaborative tools s	uch as r	mailing lists			
INO4	The mailing lists are quiet and not indicative of the wo	Rec	Recommendations			
IN05	The use of mailing lists would reduce the number of s	R28	Regularly update the front page of the Google Code site			
IN06	A FAQ would be useful and reduce support calls	R29	Conduct technical discussions via externally visible mailing lists			
IN07	A mailing discussing installation problems would be h	R30	Have a mailing list for announcements, with a standard email for the announcement			
Virtual	meetings	R31	Improve and maintain the FAQs			
IN08	Collaborative technical meetings using Skype would be	R32	Have regular technical meetings using Skype			
IN09	Communication using video would be better than voice	R33 Clean up the source code repository regularly				
		R34	Determine from the stakeholders what is difficult, and simplify it			

## **Software**

### Observations

#### Performance and robustness

		100 011								
SO19	The	There is no consideration of performance								
S020	Ing	Future uptake								
S021	IC.	S031	Getting started with ICAT is difficult							
S022	IC SO32 ICAT is most effective when integrated with other business systems, but better tools and advice are required									
S023	Th	SO33 New users generally say that ICAT is good								
S024	IC.	S034	It is generally seen that getting started with ICAT is simple							
S025	IC,	S035	ICAT is well placed to meet future requirements IP and Copyright							
SO26	Th	S036	It is difficult for a new installation to verify an ICA SO38 The New BSD licence is satisfactory							
S027	Sc	S037	It would be useful if the ICAT team could offer a mentor to help with the initial installation							
S028	Ва	Backward compatibility and extensibility are important								
SO29	ISI	ISIS has added a feature to upload data								
S030	On	Once understood, the web service end point is easy to use								



# Requirements

### Requirements

ISIS		SNS			
REQ01	ISIS has a facility to upload derived data to a catalogue	REQ08	Better support for Mantid and additional sign-on methods		
REQ02	There are additional requirements for searching across c	REQ09	Support for some minor ICAT operations without the need for auther	ntication	
Diamon	d	REQ10	Support for automated data reduction		
REQ03	There was a reliability requirement, but it has been met	REQ11	Q11 Topcat has too many pop-up windows. A HCl specialist should review i		
REQ04	Diamond has integrated ICAT with Eclipse and this is ve	REQ12	There is a need for the support of additional search functions		
REQ05 There are requirements related to publishing including m			RA		
CLF			Pandata is expected to have a list of requirements by June 2012		
REQ06	CLF catalogues diagnostic data rather than scientific da	REQ14	One immediate requirement is cross facility searching		

REQ15

Support for the enforcement of a data policy

