

TAS Code of Practice Project Webinar, 5 July 21

Question and Answers

Question	Response
With the process I don't see any	* We have relationships with many of the commercial
plan on how to gain adoption of	operators of autonomous vessels in Australia and are
the code of practice by Australian	actively seeking their input. We will seek to work with a few
industry - simply releasing the	of these operators towards the end of the year to apply the
plan (if we build it) does not gain	draft Code to different vessel types, and then share the
adoption (they will come). Lloyds	lessons learned.
and DNV can leverage their	*Information on the Code is also being dispersed through
insurance presence, whilst others	the AAUS (Australian Association for Unmanned Systems),
can leverage their regulatory	which is the primary representative body for autonomous
presence. How will you gain	systems in Australia.
acceptance?	*We are also working closely with AMSA on the Code, and
	they can mention the Code to operators seeking
	*Ultimately the Code is voluntary
Can you please clarify Alvisas	"We have an excellent relationship with AlvisA. I (Rachel)
relationship with this TAS	worked at AIVISA for 8 years, and am actually on extended
process: specifically, is it	a sories of workshops and more targeted meetings with
implement the recommendations	AMSA to onsure the Code aligns with their expectations
arising from the exercise or rather	and they are comfortable integrating it into the regulatory
inform their own process	framework to the degree possible
	*Our intent is that operators can voluntarily comply with
	the Code, and provide evidence of same to AMSA as part of
	the application process, and this will indicate to AMSA that
	best practice has been/is being followed.
	*The Code is iterative, and could end up being integrated
	into the NSCV in the future.
While Defence may not be subject	*We absolutely agree, and have a good working
to civil regulation, there is still a	relationship with Warfare Innovation Navy and DST. We are
need for a code of practice to help	supporting them with our work where possible.
establish an approach to	*The Code is intended to represent best practice, and so
development of Defence vessels.	should be informative for Defence also.
How can Defence developmental	
practice be supported by this	
effort?	
Hi. Thank you for a fantastic	*Only the LR Code addresses the issue of sub-surface
presentation. Do any of the codes	vessels. The UK for MASS does not encompass sub-surface
break out the difference between	vessels, and the DNV Guidelines focus predominantly on
surface and subsurface	surface vessels. However, the LK Code requirements are
what is considered to be a vessel	requirements on this issue in the Australian Code
in the autonomous space? The	*What is a 'yessel' is defined by Australian law, but we can
	what is a vesser is defined by Australian law, but we call



COLREGs. Is the general inability	autonomous 'vessels' that are more appropriate
platforms addressed?	
Is the code envisaged to cover	*It is intended to cover both, in order to be relevant to the
MUMS or only	kinds of autonomous and remotely operated vessels
remote/autonomous?	entering the Australian fleet
MUMS = crewed and uncrewed;	
manned and unmanned maritime	
systems. Important in the	
especially for Defence.	
Thanks for preso, are you	*We have not liaised with MNZ as yet, but it is a good idea
undertaking any liaison with MNZ	to do so. We will take this on board.
to generate a TT code?	
Require more granularity with size	"Noted. Une of the goals of the Code is to identified
un to 5 metres etc. Vessels which	category and the requirements that apply to each
do not pose a threat to shipping or	category, will be discussed at the workshops.
other boats should be exempt and	
have very basic rules.	
Given the emphasis on developing	*The intent is to provide tailored requirements for smaller
a code for sub-12m uncrewed	vessels, as well as appropriate requirements for larger
maritime systems, what	vessels.
compromises is this introducing	*Having requirements tailored to smaller vessels should
Into the code for those developing	not compromise the requirements for larger vessels, which will be much closer to the requirements contained in the
	National Standard for Commercial Vessels and in the
	available Codes and Standards reviewed.
	*This 'categorisation' of vessels is similar to AMSA's current
	approach of treating smaller vessels operating close to
	shore, with only a small number of persons onboard,
	differently to higher risk vessels.
Is defining a robotic platform as	* What fits in each risk category, and the requirements that
marine equipment going to work	apply to each category, will be discussed at the workshops.
not launched from or housed on a	narent vessel' as a necessary requirement for an object to
larger commercial vessel?	be classified as 'marine equipment'.
"not capable of inflicting	*Agree. There will need to be some requirements that
significant damage or causing	apply to even the lowest risk category – autonomous
significant safety risks" - but to	marine equipment. However, these requirements could be
what? Some of the ROV could still	operationally focussed rather than
do a reasonable amount of	design/construction/survey/testing requirements.
damage and pose a safety risk if a	
a comment that there is a need to	
set the context of the rick	
assessment).	



A point for discussion. The need for support vessels/operators etc defeats a primary driver for system autonomy. I suggest we need to work towards an approach in which low risk operations can be conducted independent from any human operator.	*Noted. What fits in each risk category, and the requirements that apply to each category, will be discussed at the workshops. We expect and welcome robust discussion at the workshops on the appropriate requirements.
At the moment we are doing autopilots for all types of vehicles, we are currently doing research activities. How do we currently operate within the current law?	*We can point you towards the AMSA website for the current requirements for commercial vessels which operate domestically. (https://www.amsa.gov.au/vessels-operators/domestic- commercial-vessels)
Can you share a list of the operators consulted during this process?	*Yes, we will be publishing a Stakeholder Consultation Report, which will include the list of consultation activities undertaken and a list of stakeholders consulted. (Comments made by stakeholders will not be individually identified).
How do you become an operator?	*We can point you towards the AMSA website for the current requirements for commercial vessels which operate domestically. (https://www.amsa.gov.au/vessels-operators/domestic- commercial-vessels)
Should we focus more on certifying the IT/control systems on the vessel, rather than surveying the physical vessel, as it is the IT/control systems which will have the greatest impact on safety outcomes?	*For smaller, lower risk vessels, yes we agree that we need to focus more on the control systems and how they are verified, than the physical attributes of the vessel. For larger vessels, including those which carry some crew (or even passengers in the future), surveying the physical vessel will remain important – although verifying the control systems will also be vital. These issues will be worked through at the workshops.