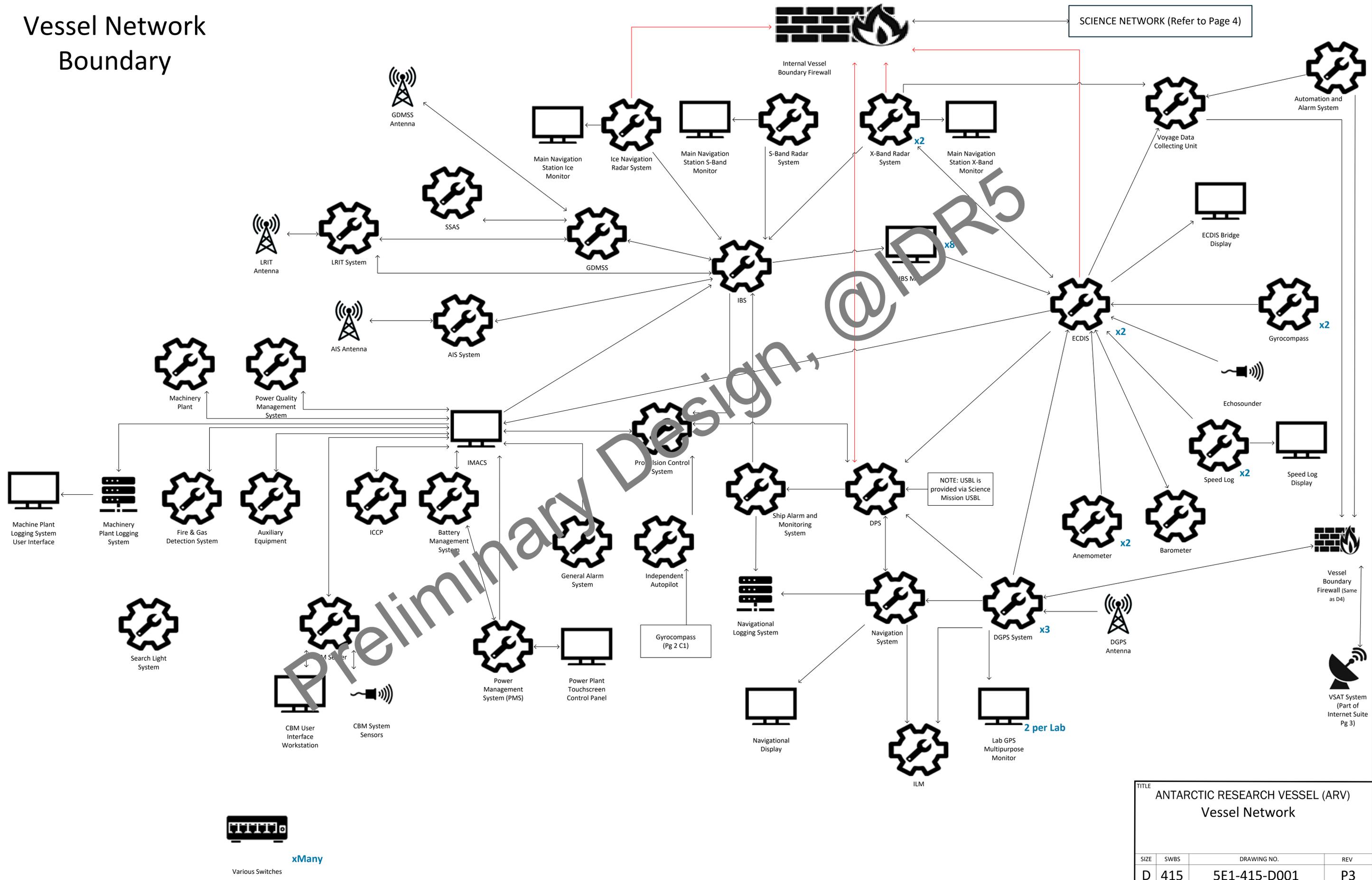
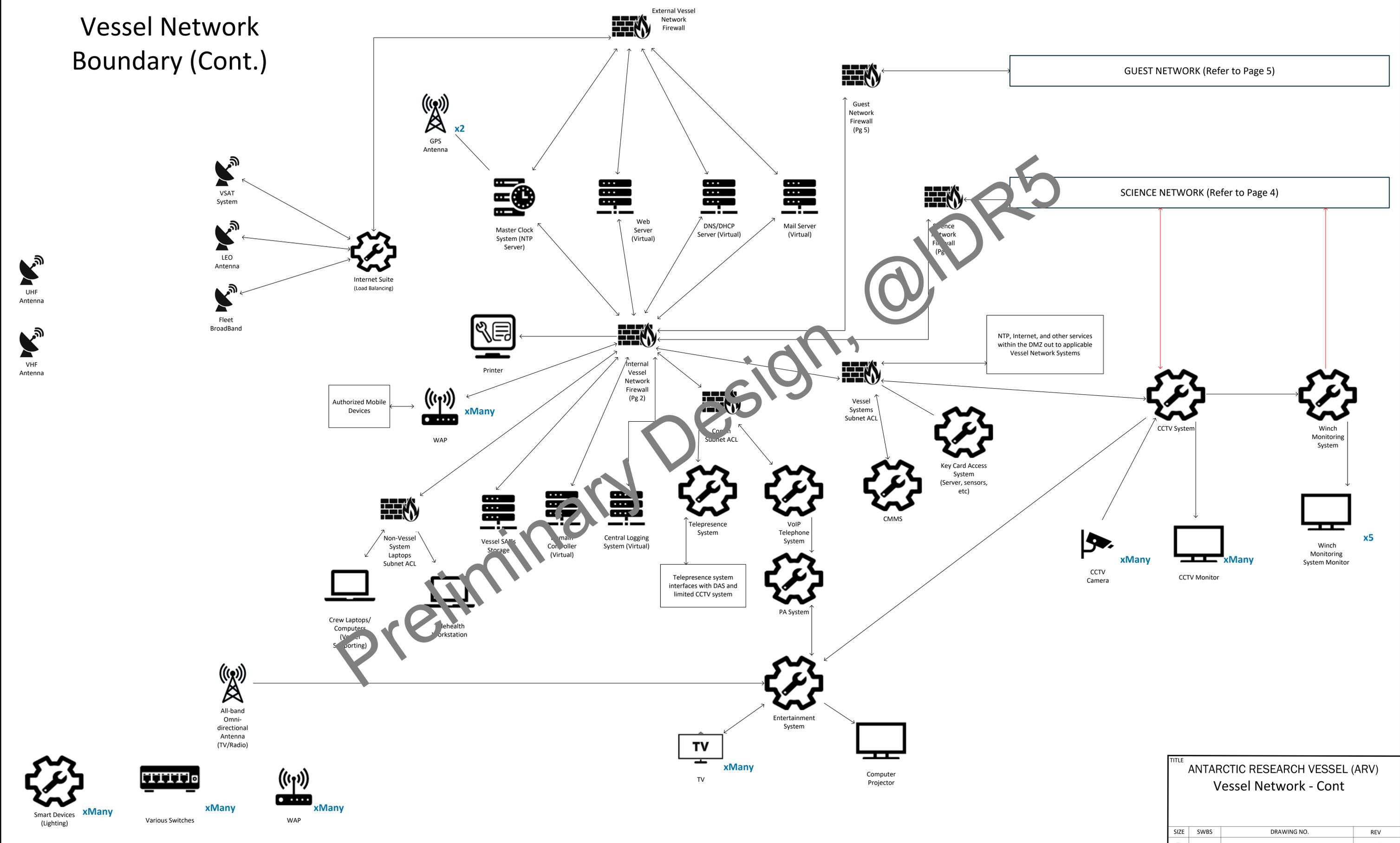


Vessel Network Boundary



TITLE			
ANTARCTIC RESEARCH VESSEL (ARV)			
Vessel Network			
SIZE	SWBS	DRAWING NO.	REV
D	415	5E1-415-D001	P3
CONTRACT NO.		SCALE: NONE	SHEET 2 OF 10

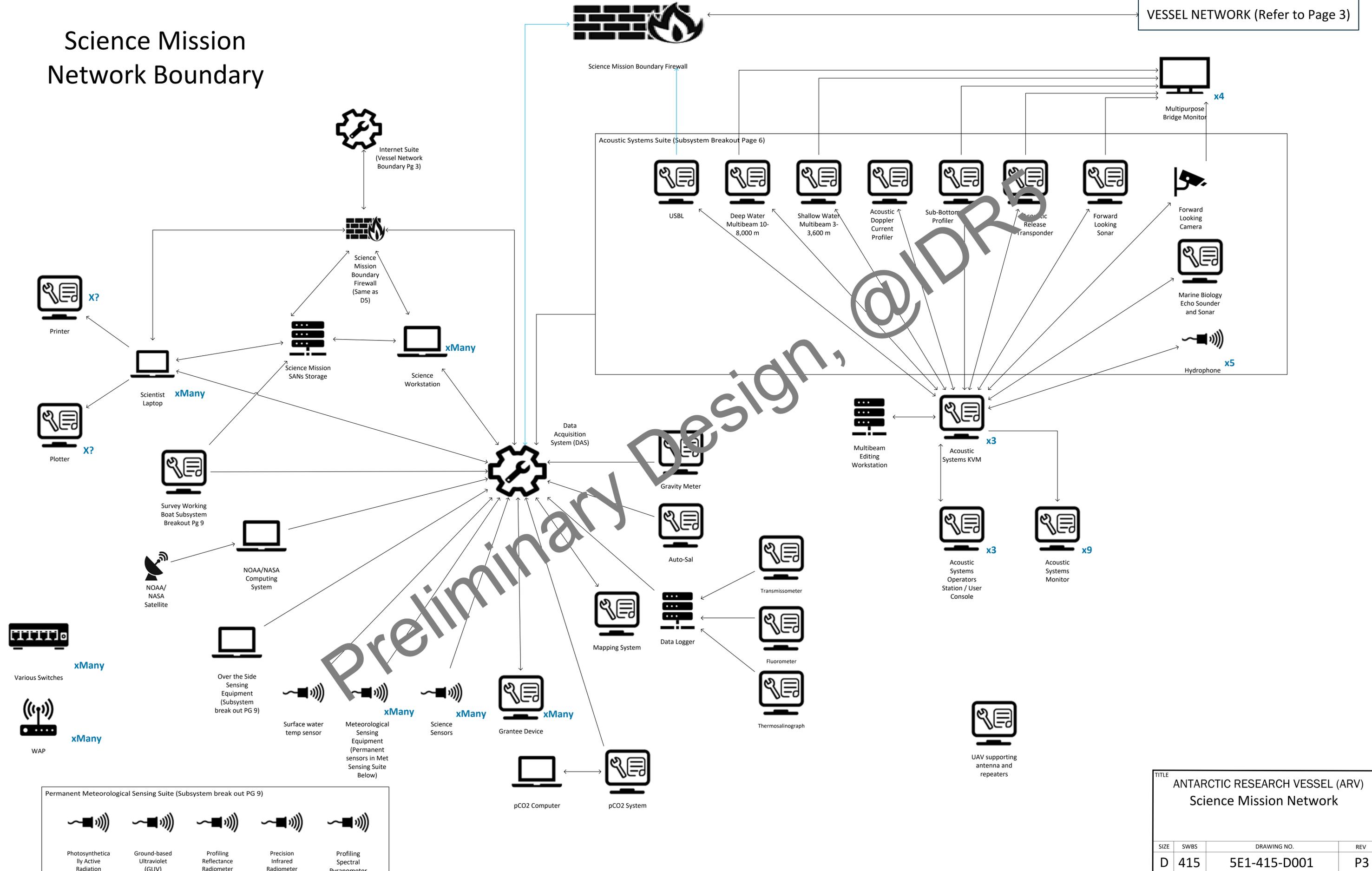
Vessel Network Boundary (Cont.)



TITLE			
ANTARCTIC RESEARCH VESSEL (ARV)			
Vessel Network - Cont			
SIZE	SWBS	DRAWING NO.	REV
D	415	5E1-415-D001	P3
CONTRACT NO.		SCALE: NONE	SHEET 3 OF 10

Science Mission Network Boundary

VESSEL NETWORK (Refer to Page 3)



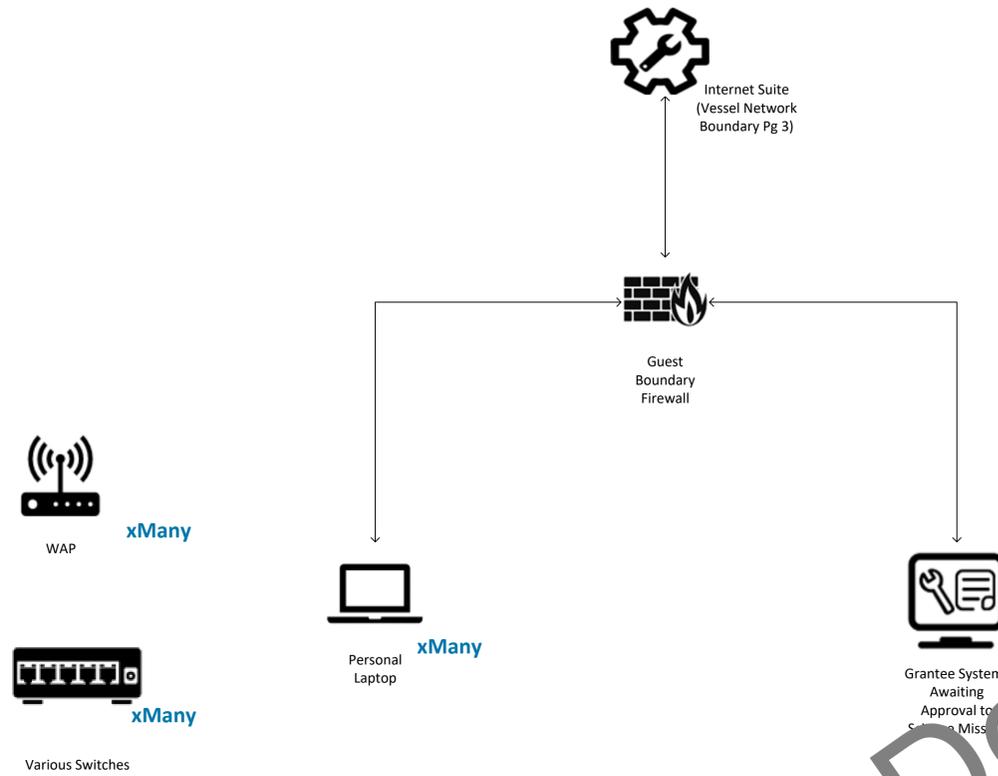
Preliminary Design, @IDRS

Permanent Meteorological Sensing Suite (Subsystem break out PG 9)

Photosynthetically Active Radiation (PAR)	Ground-based Ultraviolet (GUV)	Profiling Reflectance Radiometer (PRR)	Precision Infrared Radiometer (PIR)	Profiling Spectral Pyranometer (PSP)

TITLE			
ANTARCTIC RESEARCH VESSEL (ARV)			
Science Mission Network			
SIZE	SWBS	DRAWING NO.	REV
D	415	5E1-415-D001	P3
CONTRACT NO.		SCALE: NONE	SHEET 4 OF 10

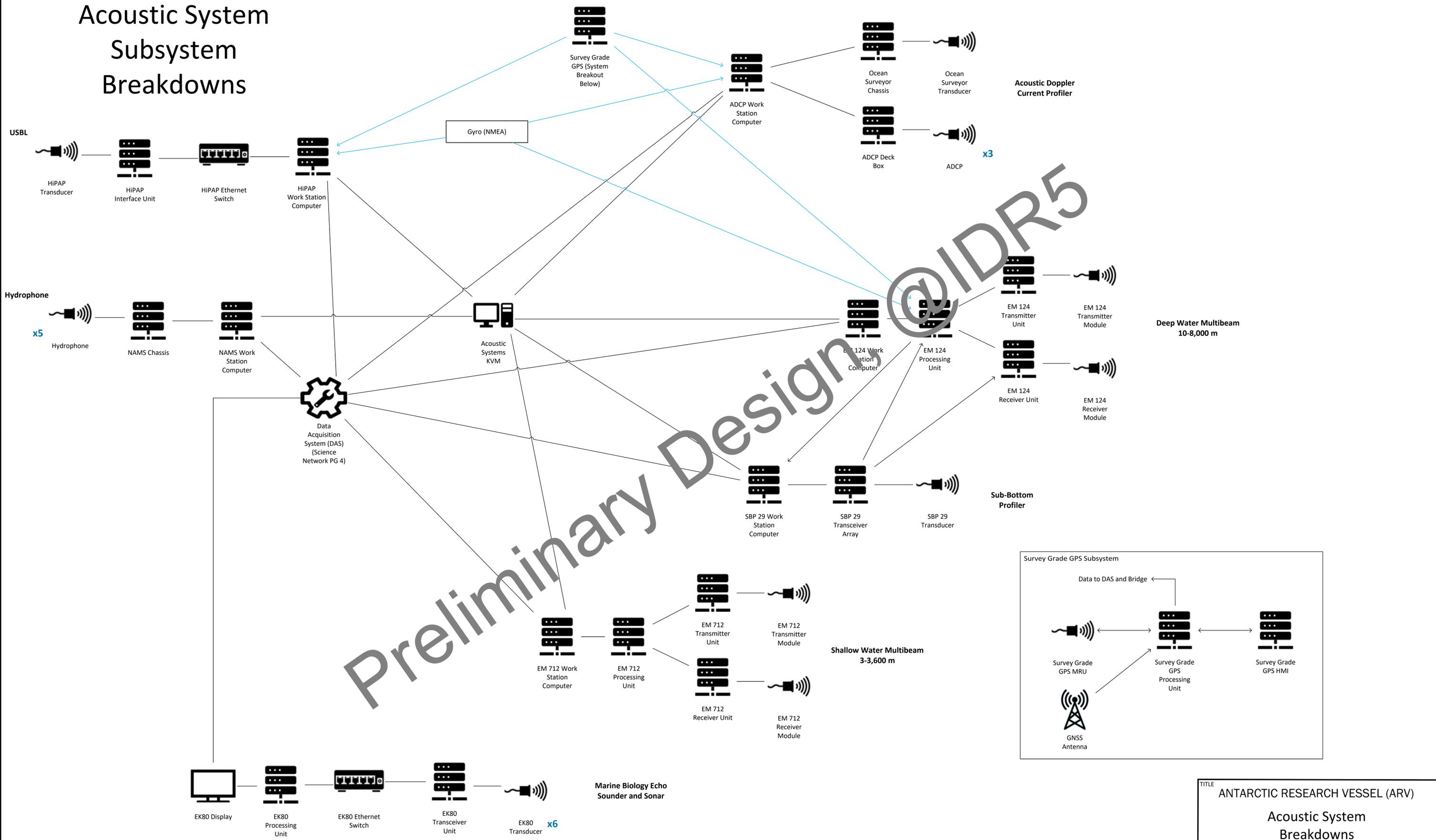
Guest Network Boundary



Preliminary Design, @IDR5

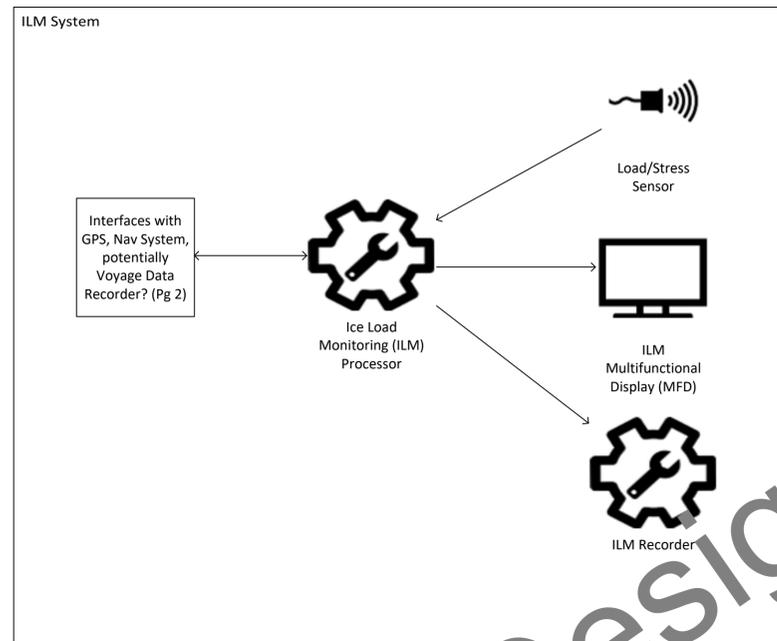
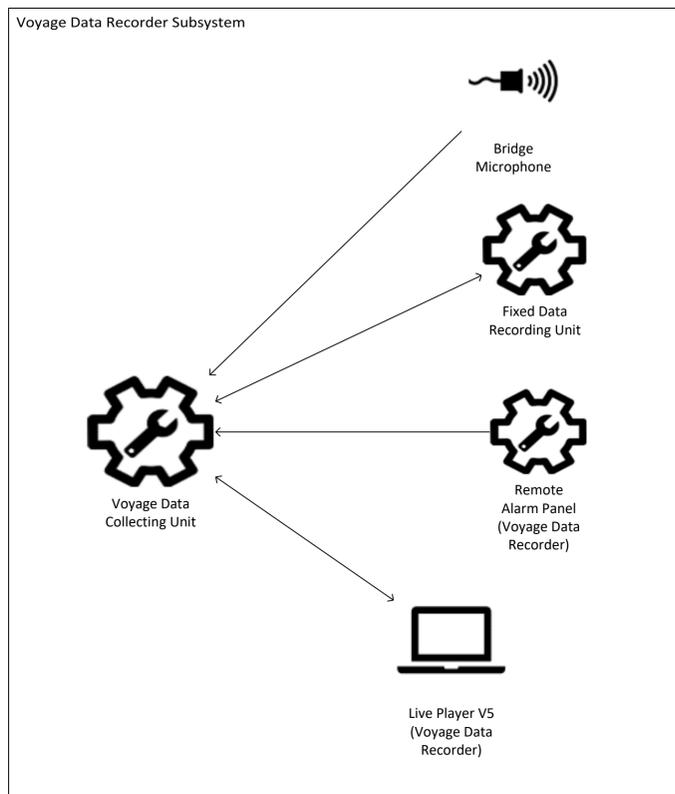
TITTLE			
ANTARCTIC RESEARCH VESSEL (ARV)			
Guest Network			
SIZE	SWBS	DRAWING NO.	REV
D	415	5E1-415-D001	P3
CONTRACT NO.		SCALE: NONE	SHEET 5 OF 10

Acoustic System Subsystem Breakdowns



TITTLE			
ANTARCTIC RESEARCH VESSEL (ARV)			
Acoustic System Breakdowns			
SIZE	SWBS	DRAWING NO.	REV
D	415	5E1-415-D001	P3
CONTRACT NO.		SCALE: NONE	SHEET 6 OF 10

Vessel Network Boundary Subsystems

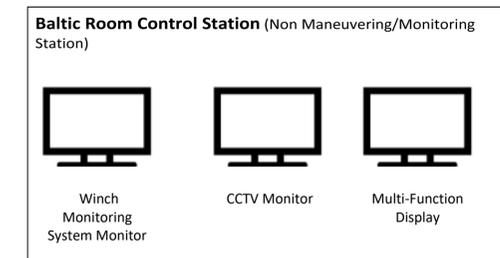
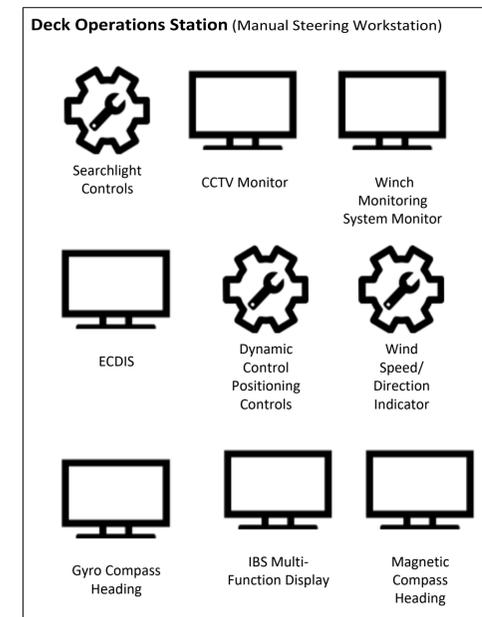
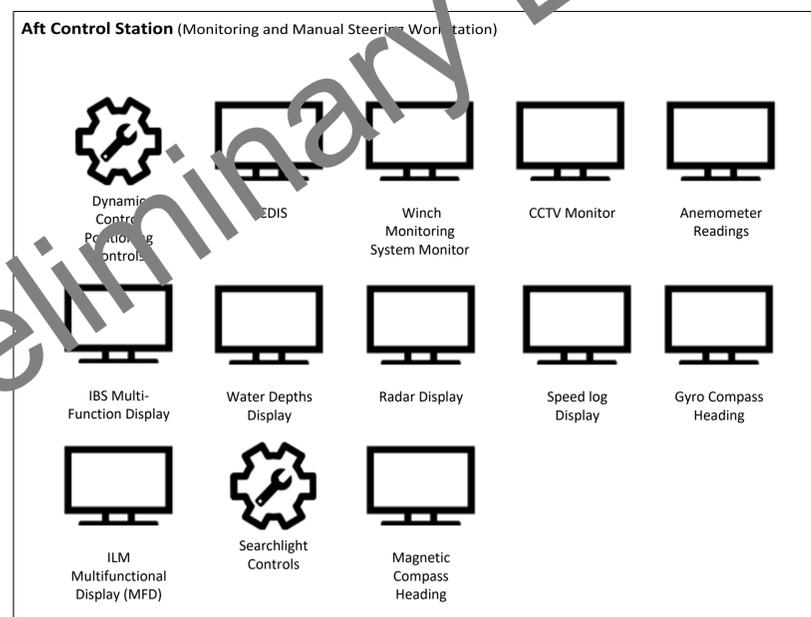
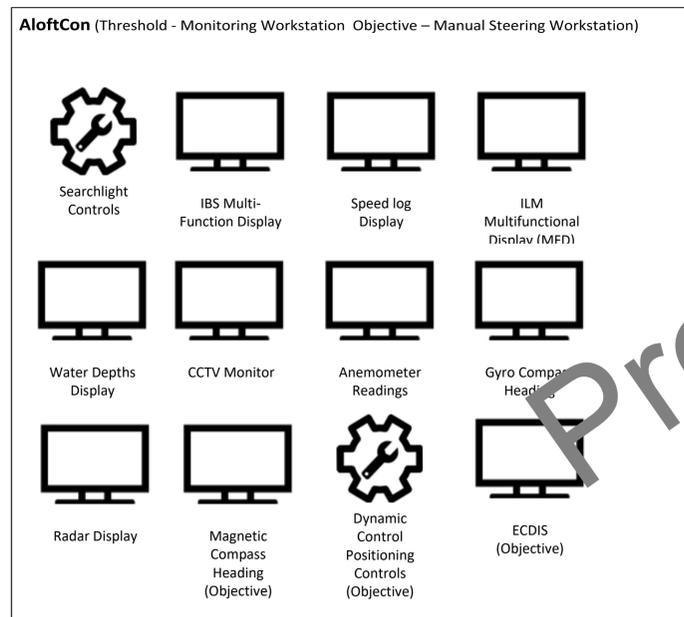
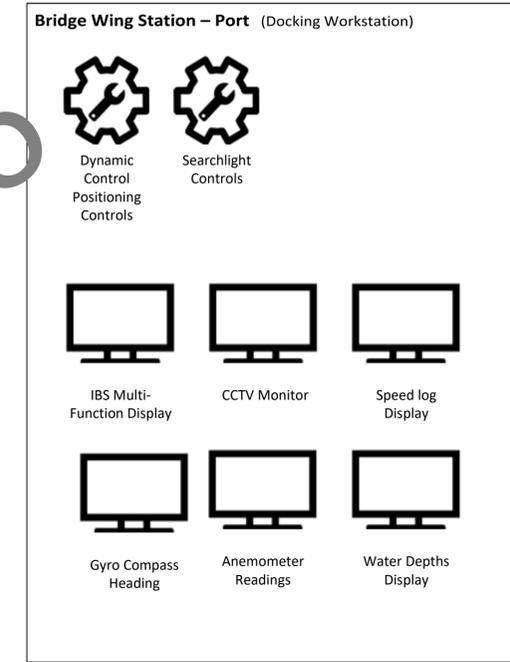
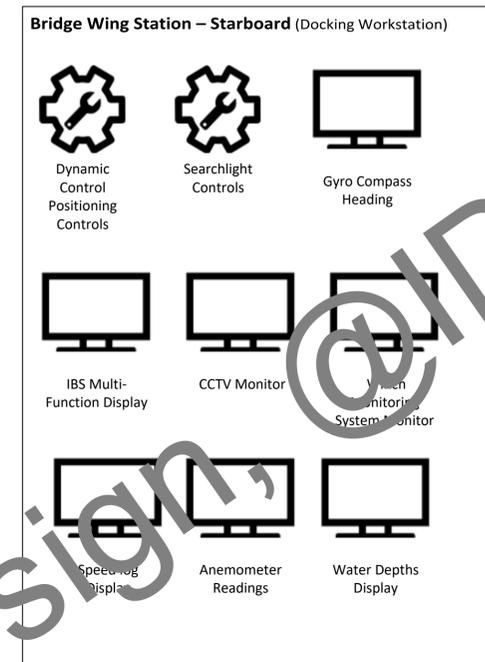
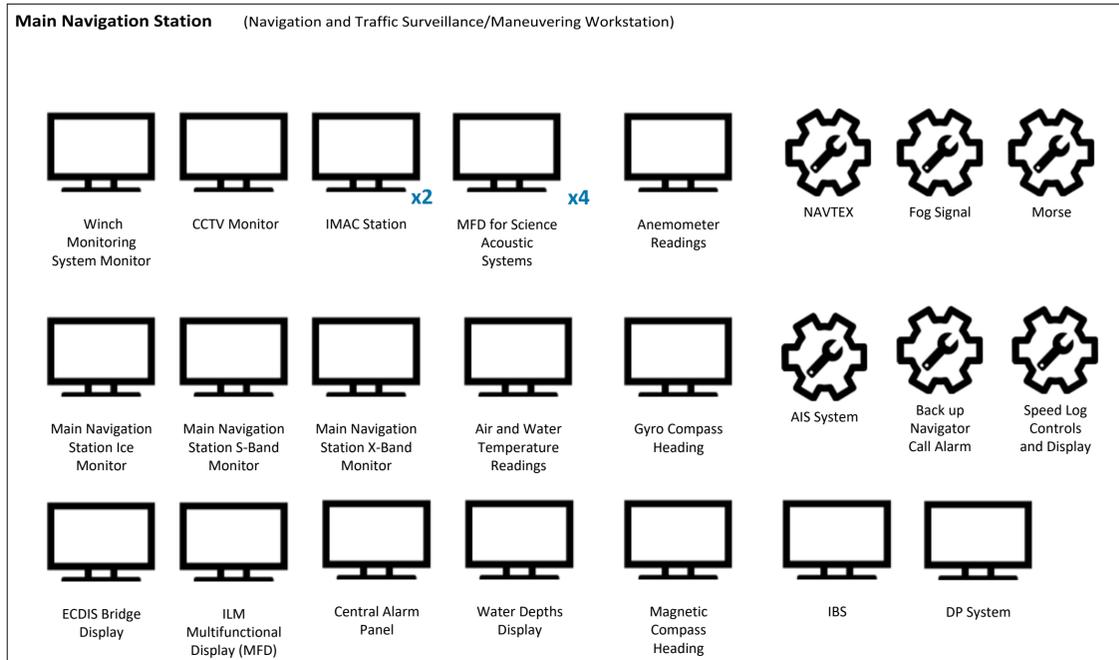


Preliminary Design, @IDR5

TITLE			
ANTARCTIC RESEARCH VESSEL (ARV)			
Vessel Network Subsystems			
SIZE	SWBS	DRAWING NO.	REV
D	415	5E1-415-D001	P3
CONTRACT NO.		SCALE: NONE	SHEET 7 OF 10

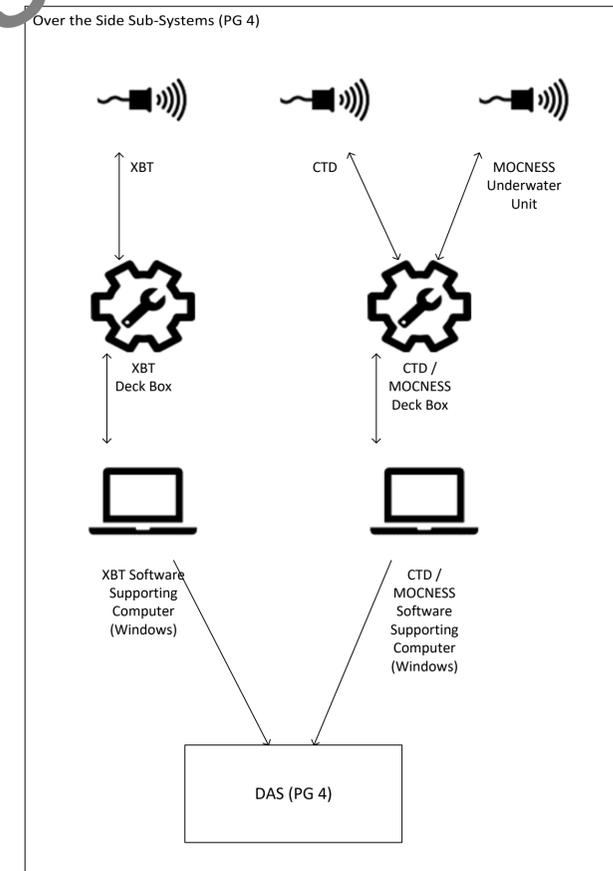
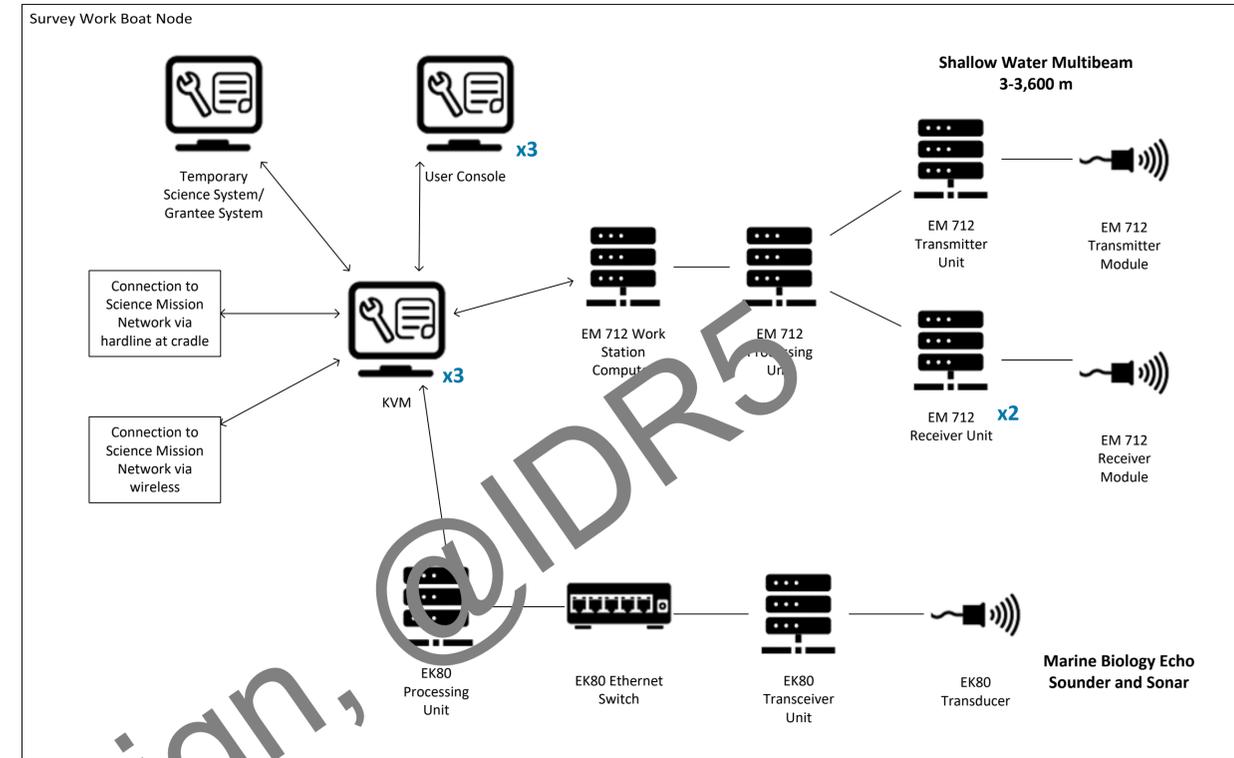
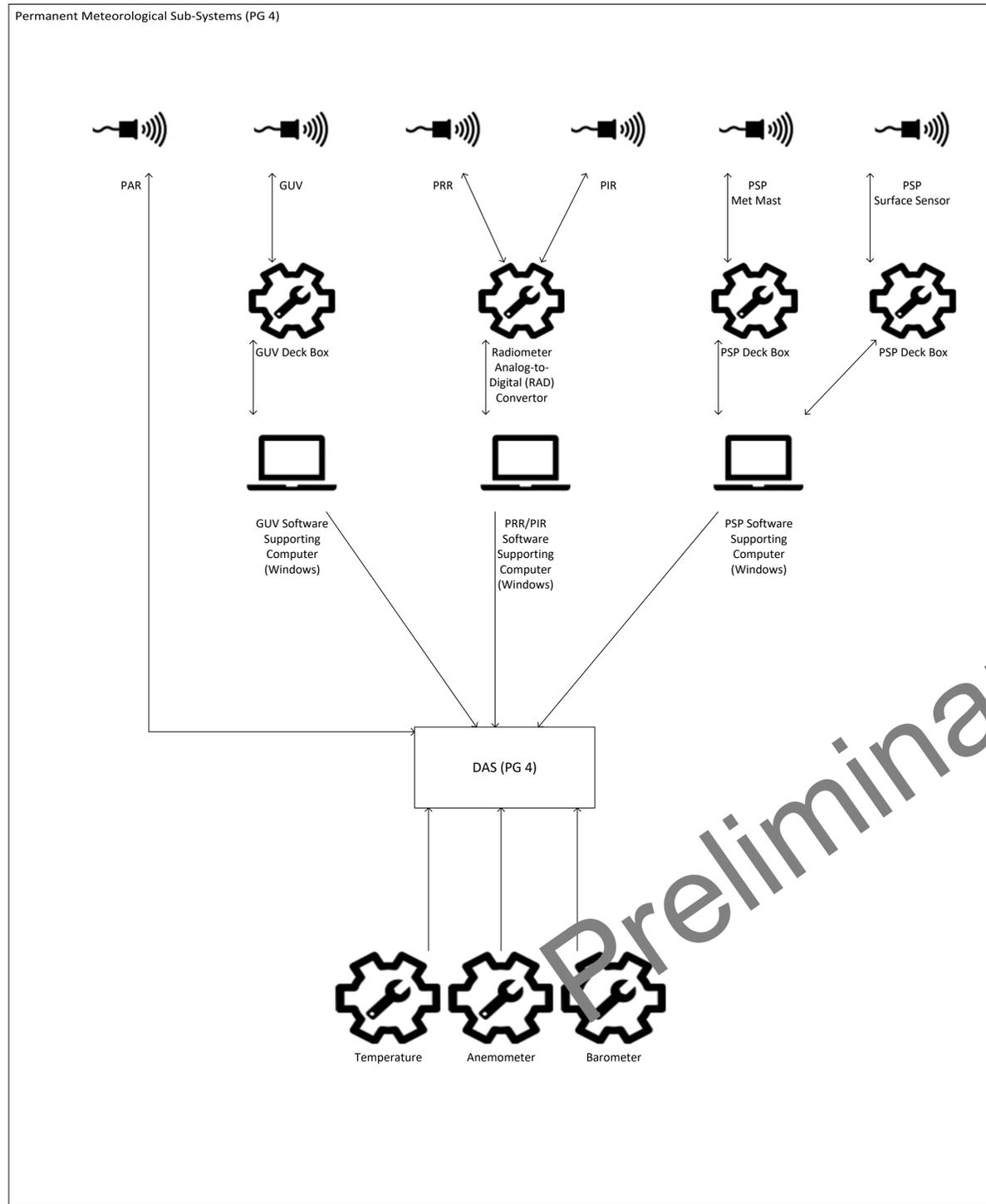
Control Station Breakouts

Note: All Control Stations include telephone, radio, search light controls, workstation lighting control, clock, whistle controls, officer of the watch check-alertness acknowledgement device and window wiper/wash/heat controls



TITLE			
ANTARCTIC RESEARCH VESSEL (ARV)			
Control Station Breakouts			
SIZE	SWBS	DRAWING NO.	REV
D	415	5E1-415-D001	P3
CONTRACT NO.		SCALE: NONE	SHEET 8 OF 10

Science Mission Network Boundary Subsystems



TITLE			
ANTARCTIC RESEARCH VESSEL (ARV)			
Science Mission			
Subsystems			
SIZE	SWBS	DRAWING NO.	REV
D	415	5E1-415-D001	P3
CONTRACT NO.		SCALE: NONE	SHEET 9 OF 10

Physical LAN Drops

Sheet Overview

- # Drops column for each space/deck provides total number of physical LAN drops required for the space/deck.
- # Available column or Open Network Drops provides the number of available LAN ports within the space/deck not specifically supporting dedicated services.
- Dedicated LAN Drops Captured Within Individual Spaces Include (dependent on requirements) :



Deck	09	08	07	06	05	04	03	02	01	Main	1st Plat	2nd Plat
Number of Drops	6	4	12	28	70	74	163	133	62	295	25	26
Open Network Drops	6	2	8	22	26	34	72	54	30	219	4	10

Note: Count does not include Control Station connection requirements. Control Station Breakouts overviewed Sheet 8.

09 Deck	Space	# Drops	# Available
	Main Mast Junction Box	6	6

08 Deck	Space	# Drops	# Available
	AloftCon	4	2

07 Deck	Space	# Drops	# Available
	Science Obs / Met Lab	12	8

06 Deck	Space	# Drops	# Available
	Bridge	14	12
	Chart Room	4	2
	Aft Control Station	10	8

05 Deck	Space	# Drops	# Available
	Crew Library	3	0
	Laundry	2	0
	Stateroom (10)	50	20
	Dayroom (3)	15	6

04 Deck	Space	# Drops	# Available
	Crew Lounge	10	6
	Laundry	2	0
	Stateroom (9)	45	18
	Individual Work Space	5	2
	Forward Hangar	8	4
	Aviation Deck	2	2
	Foremast	2	2

03 Deck	Space	# Drops	# Available
	Conference Room	16	12
	Laundry	2	0
	Stateroom (22)	110	44
	Dayroom (2)	10	4
	Individual Work Space (2)	10	4
	Science Library	7	4
	Atmospheric Lab	8	4

02 Deck	Space	# Drops	# Available
	Hospital	6	2
	Laundry	2	0
	Stateroom (21)	105	42
	Lounge	10	6
	Individual Work Space (2)	10	4

01 Deck	Space	# Drops	# Available
	Boat Deck Science Boat	2	2
	Umbilical	2	0
	Provision Stores	2	0
	Galley	5	4
	Galley Office	5	2
	Mess	3	0
	Bosun & Ship Store	2	0
	Conference Room	16	12
	Lounge	10	6
	Office	5	2
	Gym	4	0
	Basic Control Room	7	2

Main Deck	Space	# Drops	# Available
	Carpenter Shop	4	2
	Bosun Shop	5	2
	Lab Van Bay	4	4
	Changing Room	4	0
	Cold Lab Aft	4	2
	Cold Lab Forward	4	2
	Hydro Lab	26	22
	Auto Sal Room	6	4
	Bio/Chem/Analytical Lab	26	22
	Electronics Lab	36	32
	Electronics Tech Shop	16	12
	Science Stores	2	0
	Marine Lab Tech Office	8	4
	IT Office	12	8
	Scienc Ops Center	36	32
	Microscope Room	8	6
	Main Lab	22	18
	Baltic Room	6	2
	Wet Lab	30	26
	Aquarium Room	6	2
	Marine Tech Shop	8	4
	Staging Bay	8	4
	Deck Operations Station	7	2
	Aft Working Deck	7	7

1st Plat	Space	# Drops	# Available
	Elec Room	2	0
	Engineering Stores	2	0
	Provision Stores (x2)	2	0
	Electronics Room	2	0
	Battery Room	2	0
	Transceiver Room	2	0
	Electrical Shop	4	2
	Electrical Stores	2	0
	ECR	5	2
	Thruster Room	2	0

2nd Plat	Space	# Drops	# Available
	Science Hold	10	8
	Main Engine Room	2	0
	Auxiliary Machinery Space (x3)	6	0
	Engineering Stores	2	0
	Mechanical Shop	4	2
	MSD Room	2	0

TITLE			
ANTARCTIC RESEARCH VESSEL (ARV)			
Physical LAN Drops			
SIZE	SWBS	DRAWING NO.	REV
D	415	5E1-415-D001	P3
CONTRACT NO.		SCALE: NONE	SHEET 10 OF 10