



TECHNICAL DEVELOPMENT PLAN 2024-2025

Prepared by Chris Deacon, Technology Manager, 10 January 2024

The following table lists the key technical initiatives under development:

INITIATIVE	STATUS	PRIORITY/RISK	COMMENTS	CAPEX REQUIREMENT
TRANSMITTER REPLACEMENT PROJECT <ul style="list-style-type: none"> • for improved signal strength and reach. • to secure our transmission capability for the next 10 years 	Urgent – operating at reduced power. Current unit incurred catastrophic lightning damage to one of two Power Amplifiers. 17 years old – no longer supported by distributor and key replacement parts unavailable – temporarily rebuilt to keep station on air.	C	Funds availability would enable immediate upgrade to ensure restoration of improved coverage to service area, improved audio processing and provision of RDS capability. Investigating community “Give Now” campaign to be launched in 2024/25, and pursuing CBF D&O grant opportunity.	~\$33,550
STUDIO CONSOLE REPLACEMENT PROJECT (3 off)	Bespoke consoles (built in house 19 yrs. ago) are no longer supportable; lacks sufficient mix-minus capability; chips no longer available; audio specifications difficult to meet; evidence of capacitor deterioration.	C	New program demands require more facilities and up-to-date support. Consoles are operational but starting to require more frequent maintenance; physical wear and tear. Digital replacement options currently being researched. Possible CBF grant application in 2024/25 with community contribution. “Give Now” fundraising campaign underway to augment funds.	~\$100-150K
DAB+ RECEIVER STL BACKUP	Install Inovonics DAB+ tuner to replace current temporary borrowed tuner	H	Required to provide reliable backup STL service. Relocate old domestic tuner to studios for monitoring purposes.	~\$2025

NETWORK VLAN IMPLEMENTATION	Purchase Edge routers for dual WANs	M	Required to enhance network security and provide failover	~\$300
USB ACCESS IN STUDIOS	Subject to LAN cable availability; purchase USB2 extenders	M	Presenters need better access to personal music files; pre-recorded programs	\$450
TRANSLATOR RECEIVER REPLACEMENT	Purchase off-air receiver; current receiver unserviceable	M	90.3 MHz temporary unit installed. Elan unresponsive.	~\$2K
UPGRADE PLAYOUT SOFTWARE (WAVECART)	Current version not suitable for Win 10/11	M	Unreliable operation on occasions	\$360
SOLAR POWER INSTALL	Arrange through ACT Government	N	Install photovoltaic panels on studio roof to offset energy costs; permissions being sought	TBA
MIC ARMS REPLACE	Current arms are old and noisy	L	Possible member donation project	\$1200
VIDEO DOORBELL	In progress	L	Hardware purchased; requires customisation	Nil
LINE IN INTERFACES	Support unbalanced equipment 3 studios	L	Unbal. to bal. boxes	\$500
STUDIO 1 PROTECTED MAINS & UPS BACKUP	Studio 1 currently cannot be protected by MCR UPS	L	Arrange electrician to re-cable to MCR UPS. Requires ACT Government assessment.	~\$250
IMPROVED CARRIER/PROGRAM FAIL ALARMS AND PHONE ALERTS	Under development	L	Presenters need better on-air diagnostics;	Minor
STUDIO MIC ON ADVISORIES	Custom-built RaspberryPi driven displays under development	L	Presenters need better indications in studio	\$800

Notes: All initiatives are High impact

C = Critical [highest risk to operations if not implemented]

H = High [essential work to be undertaken asap]

M = Medium [important to implement as time permits]

L = Low [nice to have – implement as time permits]