

Date: 29 January 2021**Version: 0.5**

#	Description	Outcome
S-GLSD Discovery		
1	<p>Master WSD discovers the details (including PAWS URL) of certified S-GLSDs from the R-GLSD weblist, in JSON or XML format:</p> <ul style="list-style-type: none"> ● https://tvwhitespaces.icasa.org.za/public/sglsd/discovery/list.json ● https://tvwhitespaces.icasa.org.za/public/sglsd/discovery/list.xml 	
S-GLSD Communication		
2	<p>Master WSD performs Initialisation request with the S-GLSD:</p> <ol style="list-style-type: none"> a) On Master WSD start up b) After a user has configured a new/different S-GLSD c) URL of S-GLSD has changed based on the latest discovery 	
3	<p>Master WSD performs Registration request with the S-GLSD:</p> <ol style="list-style-type: none"> a) After configuration of a particular S-GLSD b) On changes in configurations such as WSD ownership details, and device particulars (including antenna height) c) Location change by more than 100m. Re-registration is not required for location change within 100m 	
4	<p>Master WSD performs Registration request with the S-GLSD on behalf of its associated Client WSD(s):</p> <ol style="list-style-type: none"> a) After configuration of a particular S-GLSD b) On changes in configurations such as WSD ownership details, and device particulars (including antenna height) c) Location change by more than 100m. Re-registration is not required for location change within 100m 	
5	<p>Master WSD requests Operational Parameters (OPs) from the S-GLSD for itself and on behalf of its associated Client WSD(s):</p> <ol style="list-style-type: none"> a) After REGISTRATION - New OPs shall be requested with the latest configurations b) After INIT where REGISTRATION is not applicable but INIT was performed c) After expiry of Operational Parameters (No need to run through INIT and REGISTRATION for this case, unless applicable) <ul style="list-style-type: none"> ● OPs for Fixed WSD expire after 24 hours ● OPs for Nomadic WSD expire after 12 hours 	
6	<p>Master WSD automatically notify the S-GLSD about channel usage for itself and on behalf of its associated Client WSD(s), no later than 60 seconds after receiving the OPs.</p>	

Cease Transmission	
7	After start-up, Master WSD doesn't transmit if it has failed to connect to the S-GLSD
8	After start-up, Client WSD doesn't transmit before receiving a contact verification signal from the Master WSD
9	Master WSD must stop transmission no later than 60 seconds after receiving OPs if has failed to notify the S-GLSD about channel usage
10	Client WSD must stop transmission no later than 10 seconds if it does not receive contact verification signal from the Master WSD in 60 seconds.
Continuous Operation	
11	<p>Master WSD continuous operation since last contact with S-GLSD and then cease operation (i.e., in the case of lost contact with S-GLSD i.e., no internet connectivity)</p> <ul style="list-style-type: none"> ● Fixed WSD may operate up to 48 hours, thus an automatic renewal of OPs for another 24 hours ● Nomadic WSD may operate up to 24 hours, thus an automatic renewal of OPs for another 12 hours
Ruleset Configuration	
12	WSD dynamically makes use of user configurations:
	● GLSD change - Ability to switch between S-GLSDs
	● API security - Authenticating with API Key
	● API security - Authenticating with Token
● Ownership Details (device owner & network operator)	
● Antenna characteristics	
	WSD auto location configuration based on internal or external geo-location source
	Ability to select other regulatory or proprietary information (OPTIONAL)

Note: All operations other than user changes on ruleset configurations, should be fully automated, no human intervention.

End!!!