

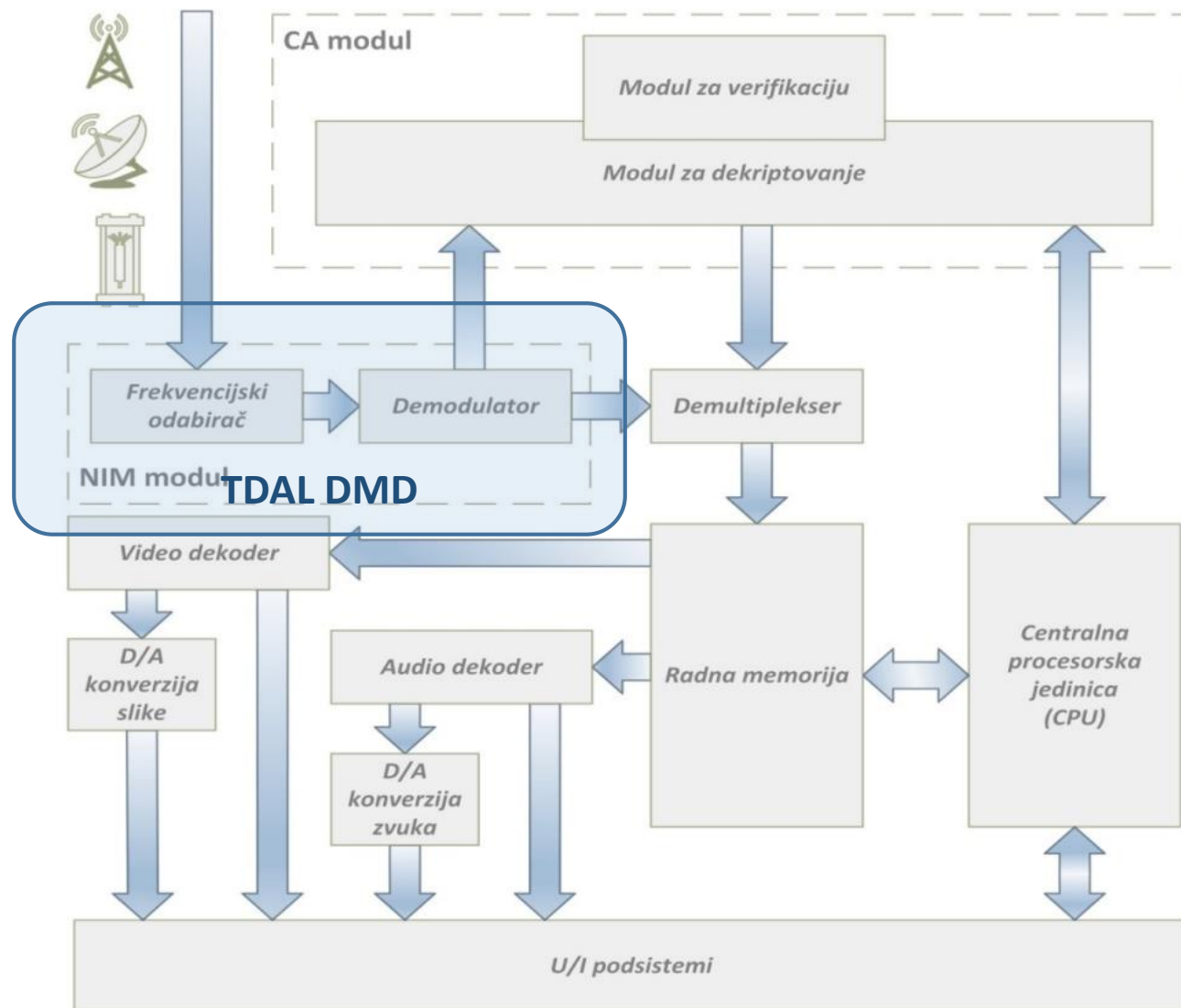


Breathe ideas.

DTV Basic

Day 2 - Tuner module

Tuner module



Tuner module

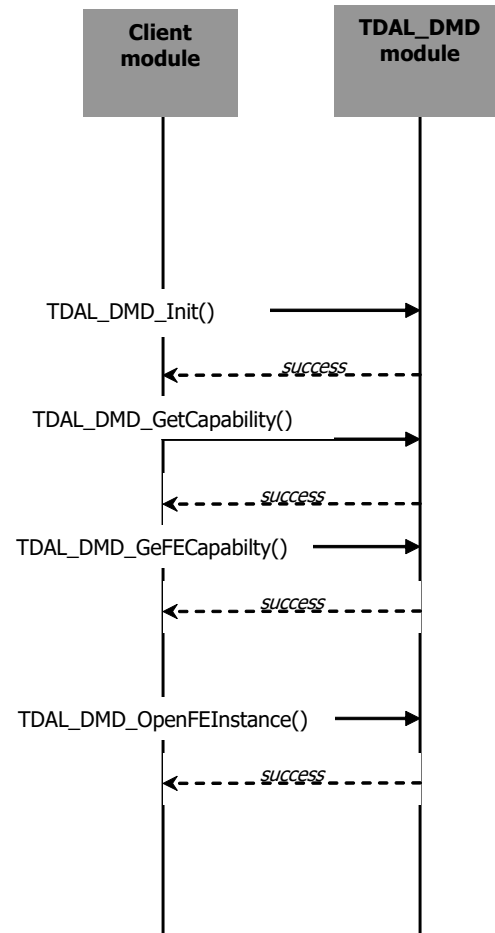
- Tuner module is responsible to control DVB-S, DVB-C or DVB-C demodulator (e.g. receiver).
- The DVB-C STB receiver - receives the channel in the 50 - 860 MHz band
- Tuner module is responsible for channel scanning
- Tuner module notify other modules about signal status (signal lost, scan progress, etc...)
- Tuner module inform system about signal quality (AGC, BER, SNR and other)

Tuner module

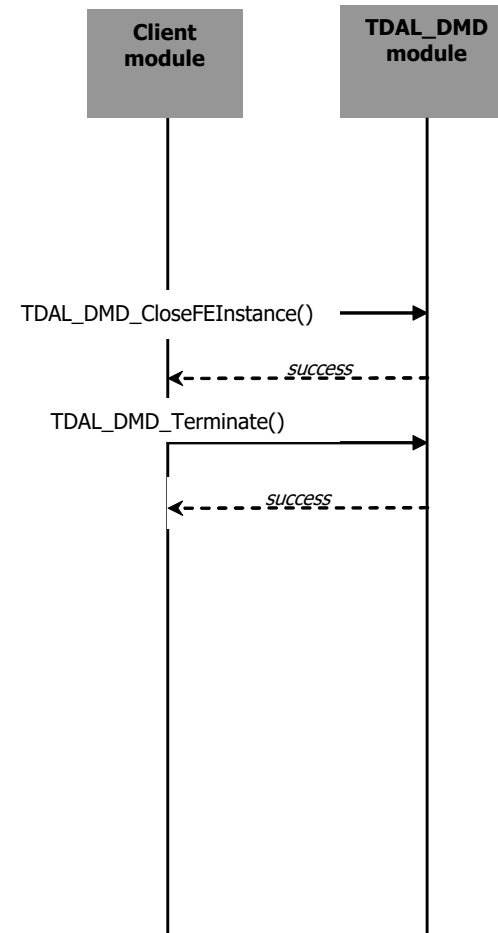
Function name	Description
TDAL_DMD_Init	Initialization TDAL DMD module
TDAL_DMD_Term	Terminate TDAL DMD module
TDAL_DMD_GetCapability	Get number of tuner modules
TDAL_DMD_GetFECapability	Get tuner module configuration
TDAL_DMD_OpenFEInstance	Open new tuner instance
TDAL_DMD_CloseFEInstance	Close tuner instance
TDAL_DMD_Config	Configure tuner instance

TDAL DMD init/term

DMD initialization case



DMD deinitialization case



Tuner module

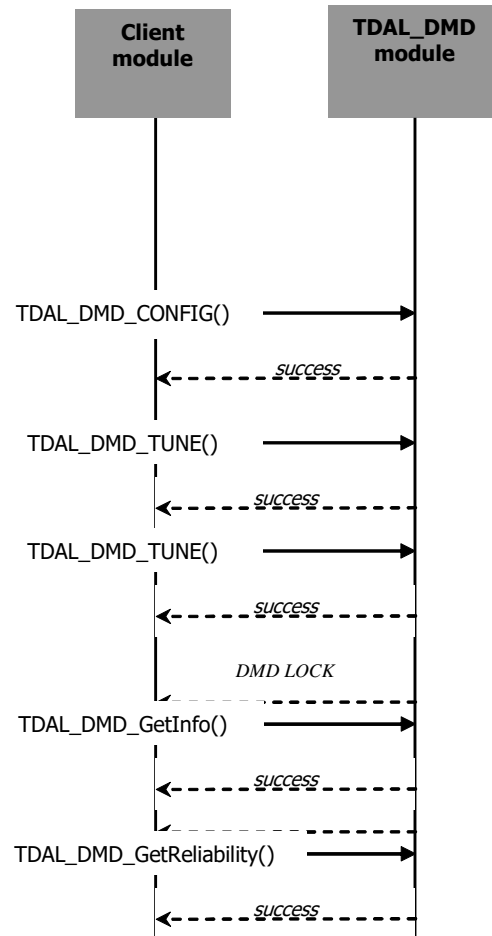
Function name	Description
TDAL_DMD_Tune	Lock tuner on a given frequency.
TDAL_DMD_Unlock	Unlock tuner from specific frequency.
TDAL_DMD_StartScan	Start scan process with given frequency range.
TDAL_DMD_ContScan	Continue scan process.
TDAL_DMD_StopScan	Stop scan process.
TDAL_DMD_GetInfo	Get signal status and quality.

DTAL DMD events

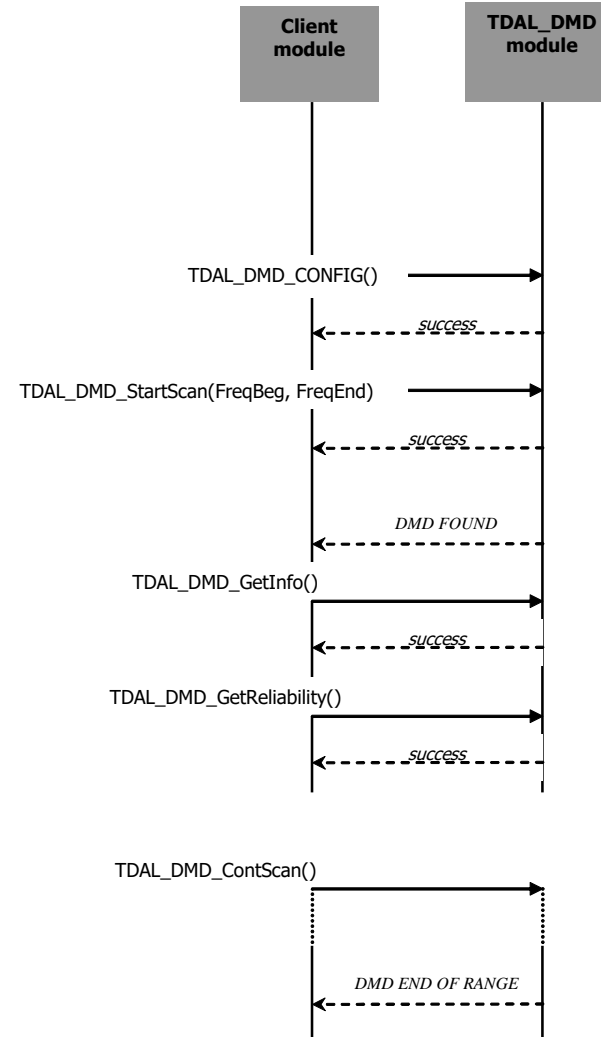
Event name	Description
eTDAL_DMD_LOCKED	Tuner lock successful pass.
eTDAL_DMD_LOCK_FAILED	Tuner lock process failed.
eTDAL_DMD_FOUND	Tuner found and successful lock to frequency specify in scan range.
eTDAL_DMD_END_OF_RANGE	End of frequency range.
eTDAL_DMD_SIGNAL_LOST	Signal lost heppend after successful tuner lock event.

TDAL DMD – Tune/Scan

Tuner lock case



Tuner scan case



NIT

Breathe ideas.

Contact us

Institute for information technologies NIT

Radnicka 30a, 21000 Novi Sad, Serbia

info@nit-institute.com

www.nit-institute.com

+381 64 01 64 724