BAVARIAN CONTEST CLUB

Modern contest station developing

By 403A - Ranko



MODERN FLEXIBLE CONTEST STATION NOWDAYS

- SOAB SO2R is default. Newest SO3R
- MULTI OPs- two stations and two Ops per band – Interlock (DR1A, CN8WW, NR5M)
- High level of station automation and use of latest technology is needed
- Antenna systems with many antennas and directions per band

If you wish to have station for: SOAB, MS i M2

 Every working position has to be with fully control of any band and all antennas – rotator controls

FLEXIBLE DEVICES AND CONCEPT

TX and RX ANTENNA CONTROL From any working position (SAC X)

BAND INTERLOCK SAC X and hardware interlock!



ROTARTOR CONTROL From any working position

BASIC RULES TO BE FOLLOWED

- x Everything what can be automated has to be
- Execute commands have to be clean and in lowest steps possible. One touch
- Every energy saving is very helpful for 48h contesting

Operator has to be focused on operating ONLY and to be relaxed of any technical details during the contest

IN PRESENTATION WE WILL BE FOCUSED ON

- 🗙 (10) WWW concesses in organizement ing one 👘 👘
- × S02R station automation
- **×** General principles
- ★ Most important devices in station as BPF, controllers, antenna matrix and splitters

HAVE YOU EVER COUNT?

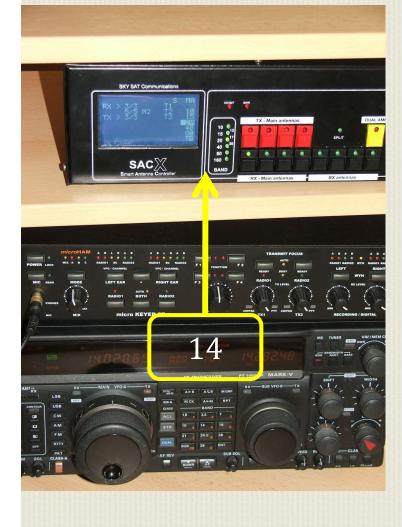
JUST TAKE LOOK ON 403A FIGURES

* How many elements you have? 96!
* How many RF connectors you have 219
* How many relays you have >100
* How many jumpers you use? Don't ask...
IT MUST BE IN PERFECT ORDER

CRITICAL ELEMENTS



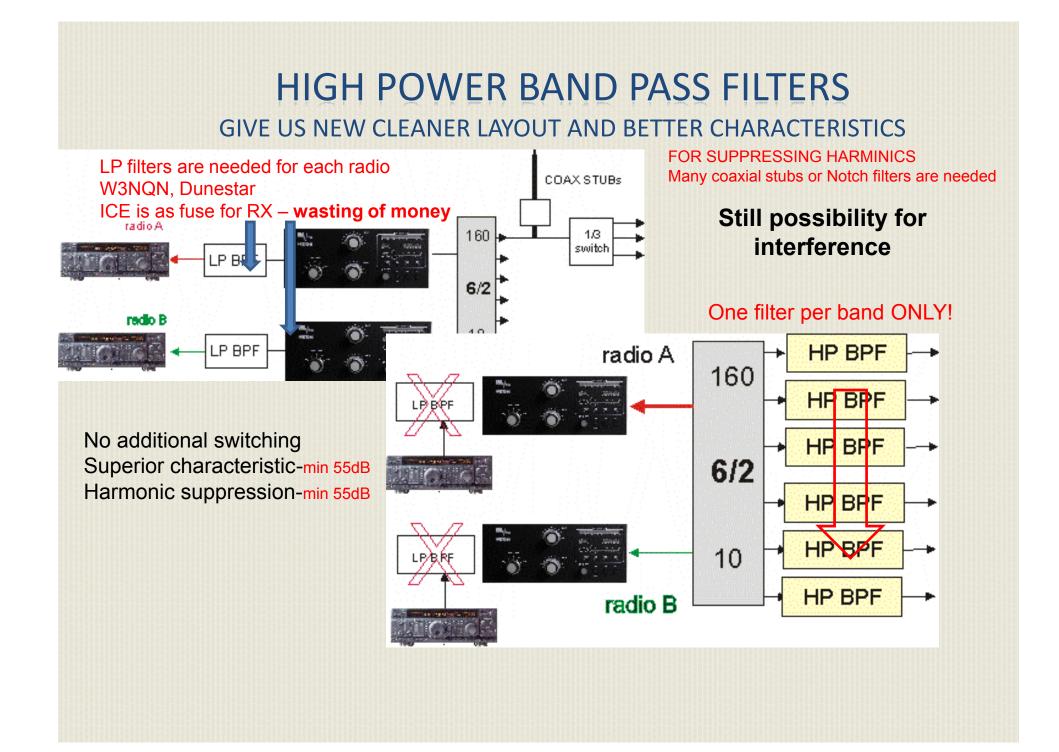
SAC X SAME CONTROLS ON ALL RADIOS



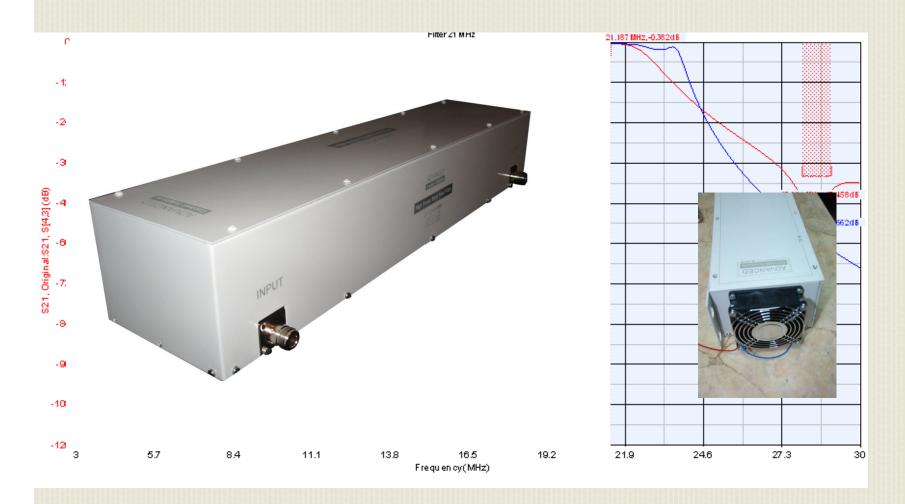


SAC X - UNIFICATION

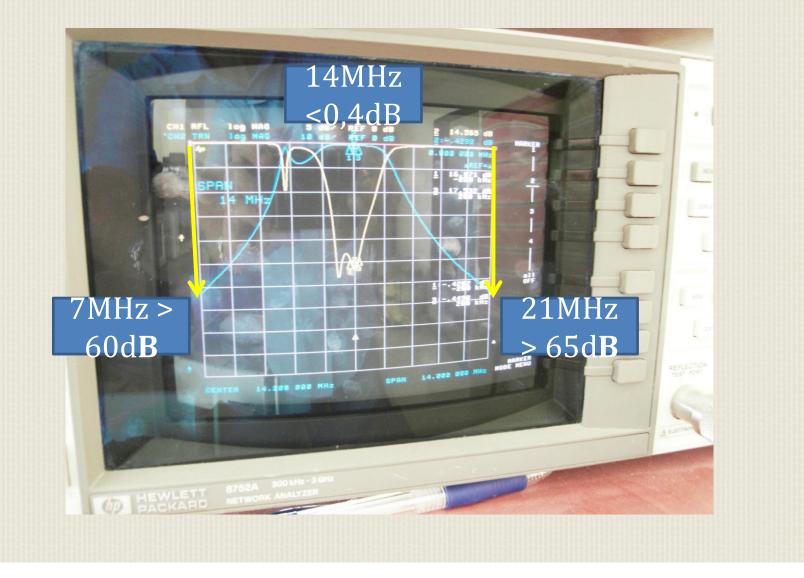


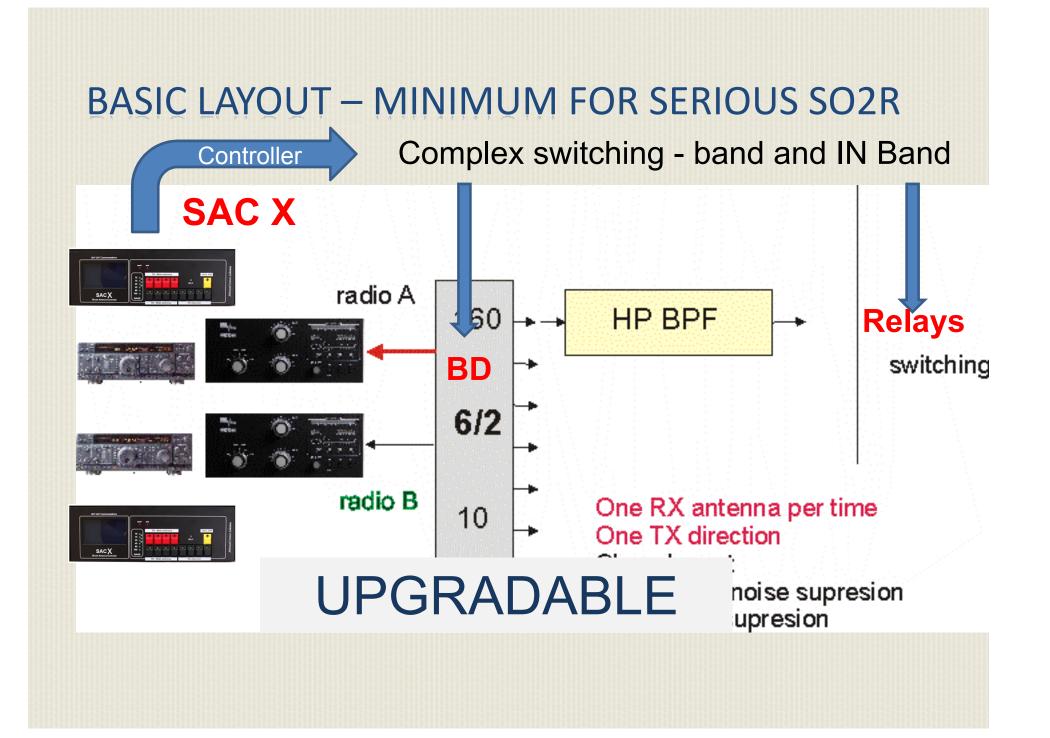


HIGH POWER BPF, SERIES S AND SERIES L

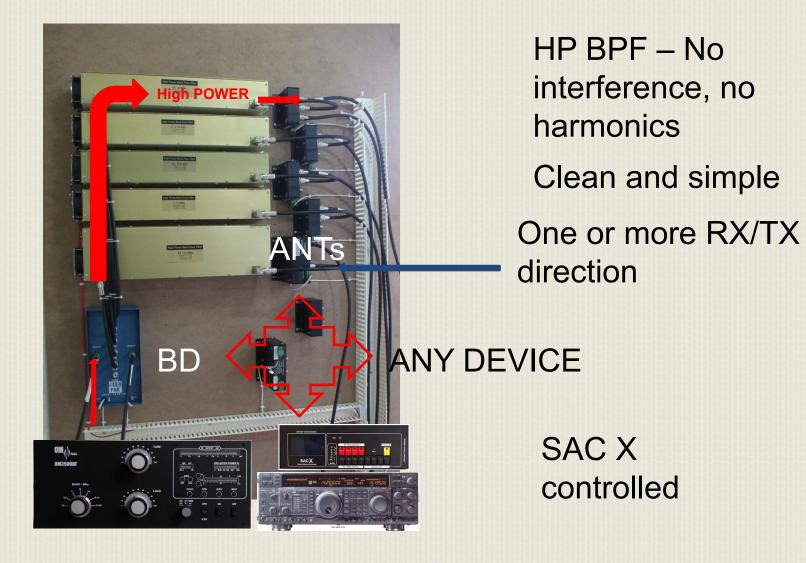


MEASURING OF 14MHZ FILTER – SERIES S

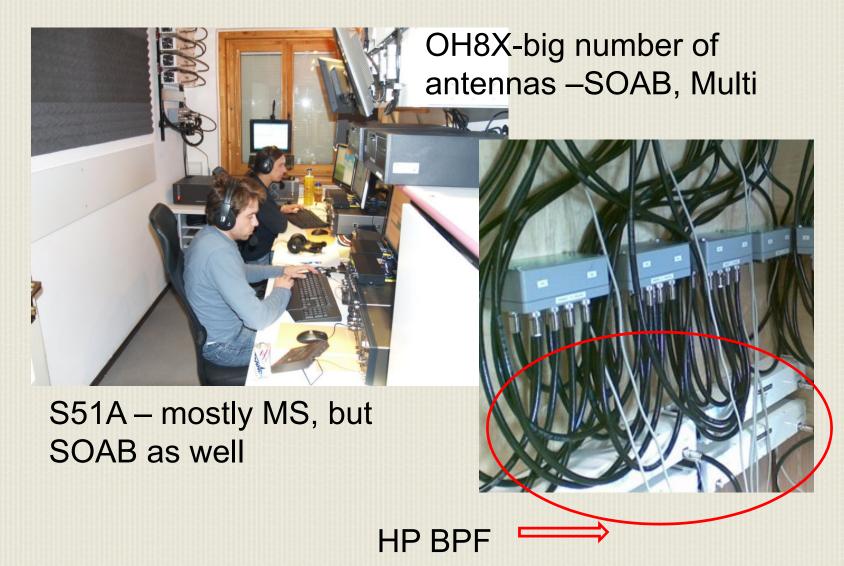




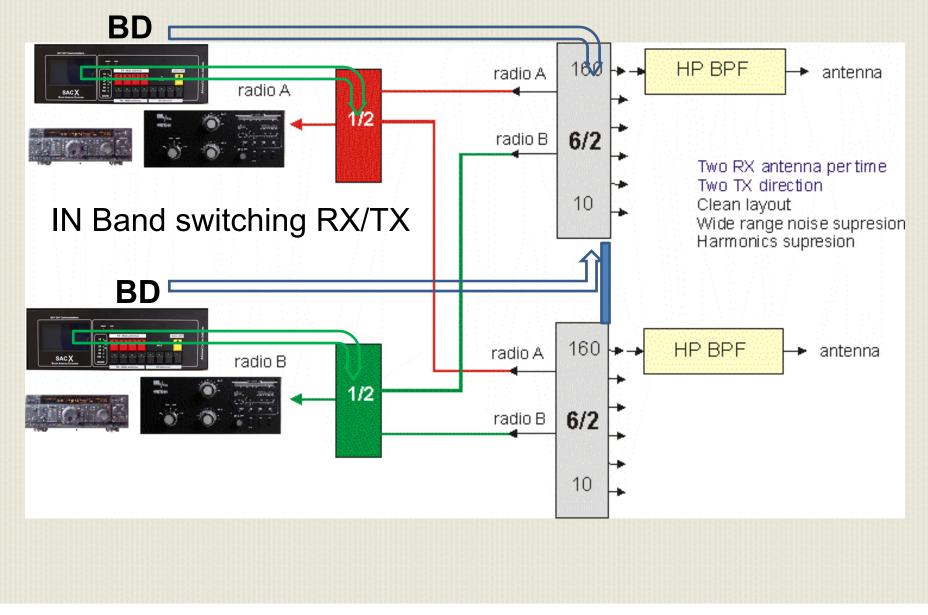
SAME CONCEPT AT PY5EG



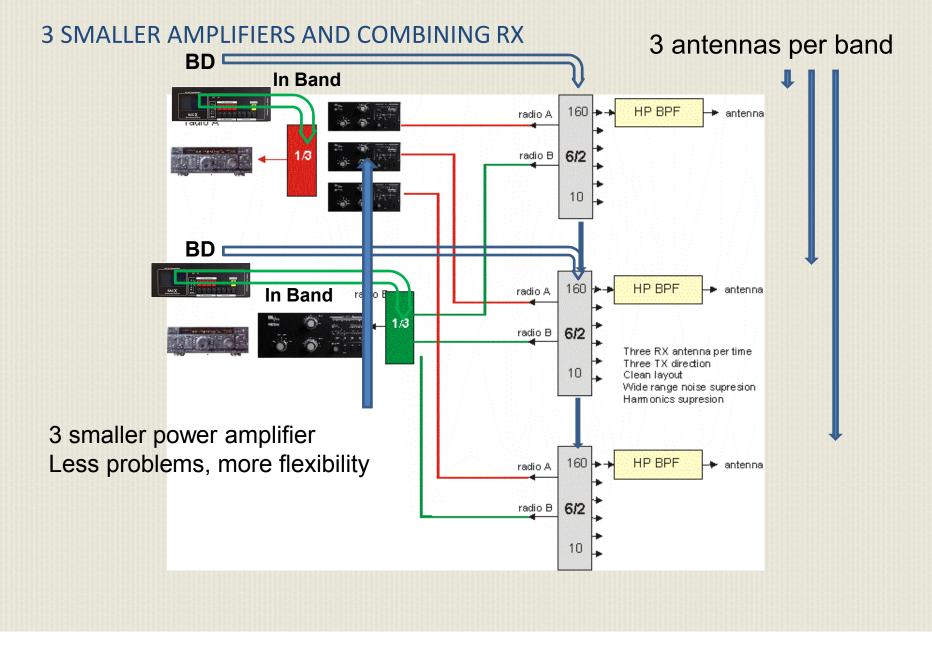
FLEXIBILITY



TWO DIRECTION WITH TWO AMPLIFIERS

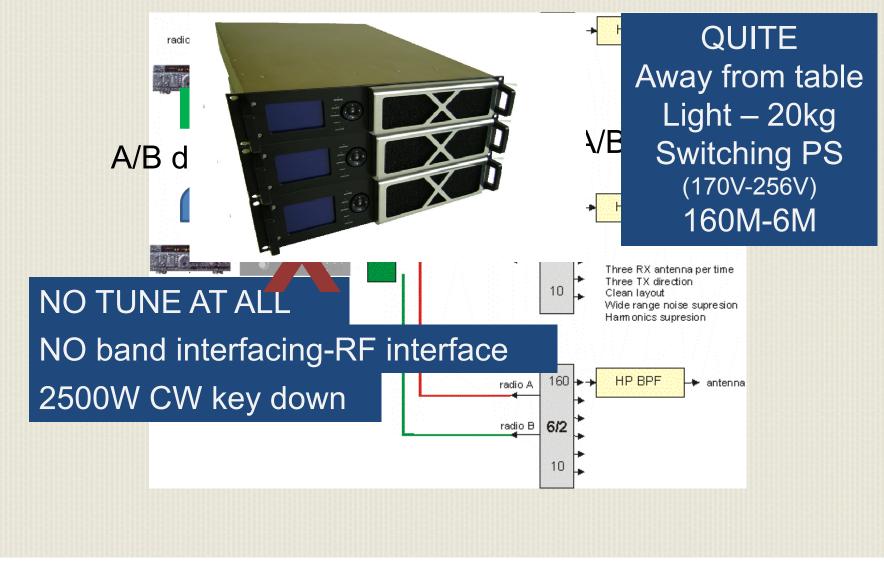


POWERFUL CONCEPT-3 DIRECTIONS



NEXT STEP – 3 DIRECTIONS, NO TUNE AT ALL

REMOVE OLD tube amplifiers (even auto tune takes some time)



HF2K5, NO TUNE AT ALL

2500W CW key down SAME PRICE LEVEL

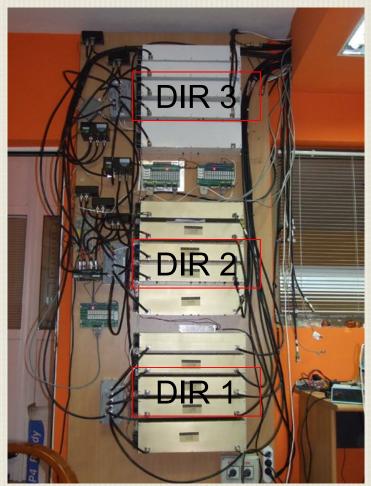
TO BUILD MODERN CONTEST STATION - YOU NEED

- To have clear final goal-SOAB, Multi, or all
 Switching and filtering infrastructure at the beginning to keep flexibility
- **×** To upgrade station by your needs



MONEY!!

3 DIRECTIONS AT 403A





NEW TRENDS – SO3R

