



# ISS11

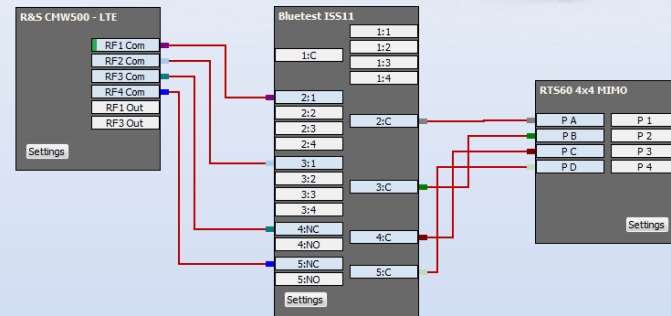
The Intelligent Support for your  
RTS Measurement System

# ISS11 - Platform

- We see an increasing need for different kinds of intelligent supporting equipment for the Reverberation Test System - RTS
- The ISS11 is designed to be a flexible platform on which we can release different types of support functionality
  - 1<sup>st</sup> release: Instrument Switch
  - 2<sup>nd</sup> release: Attenuator System
  - Upcoming releases depending on customer requests

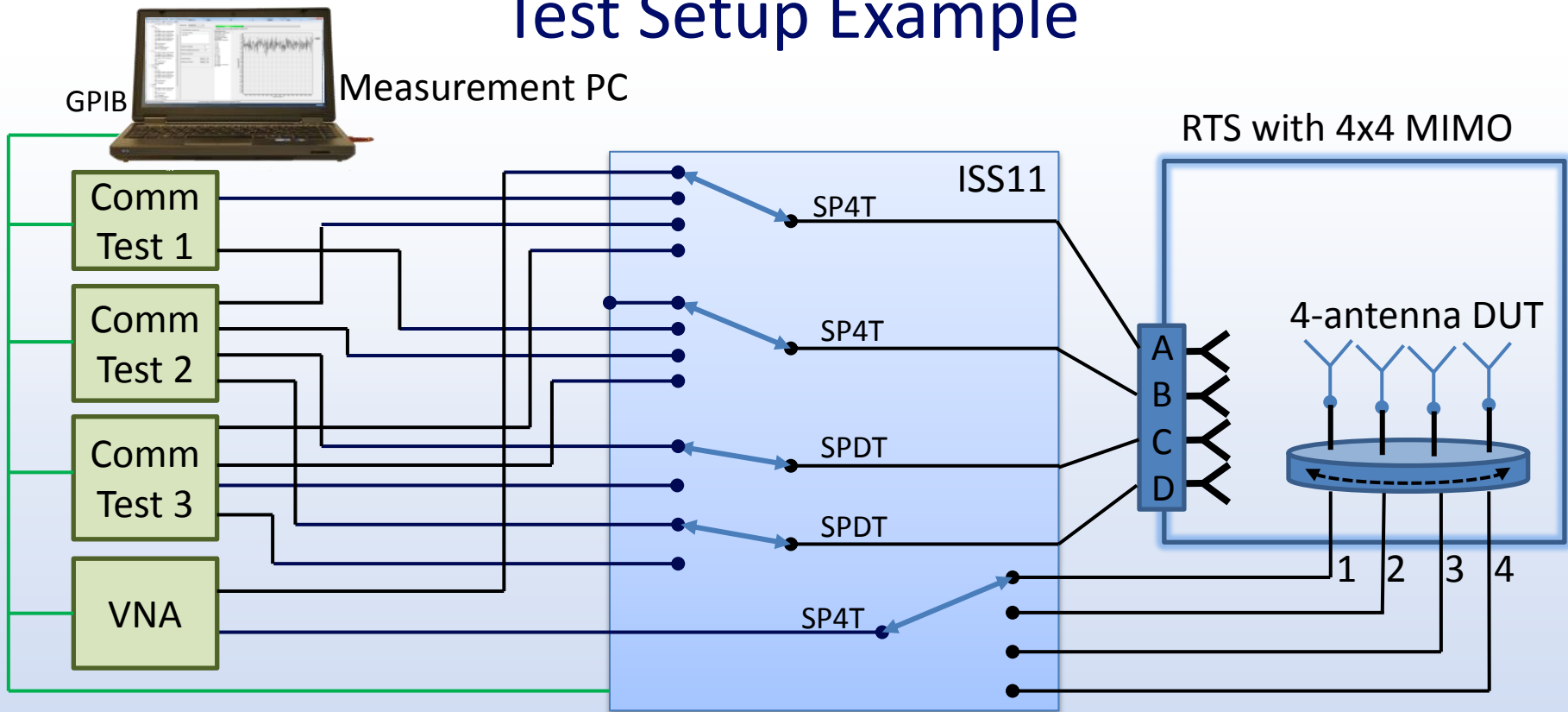
# ISS11 – Instrument Switch

- Using multiple instruments together with the RTS?
  - Network analyzer, multiple communication testers...
- The Bluetest Instrument Switch remove the need for re-cabling between measurements
- Supports up to 4 different instruments
  - 3 x SP4T switches
  - Optional 2 x SPDT switch module to support 4x4 systems
- GPIB control through the Bluetest Measurement Suite
  - Integrated in the new 1.13 release



# ISS11 Instrument Switch

## Test Setup Example

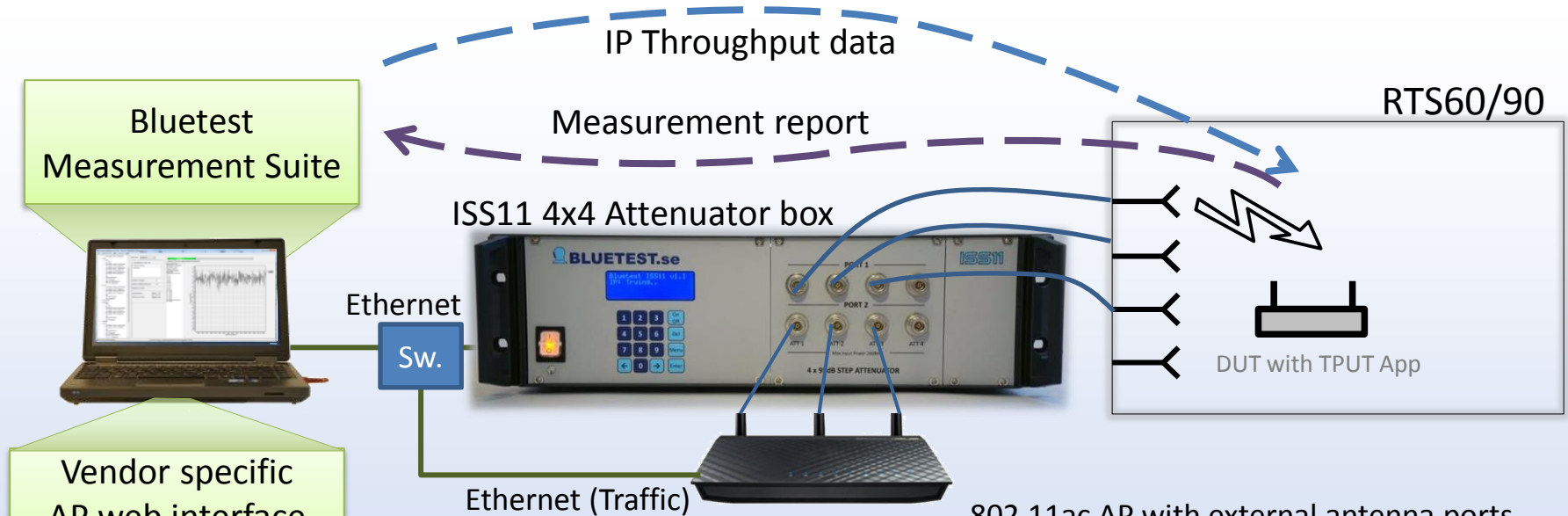


# ISS11 – Attenuator System



- For use with primarily external WLAN Access Points or WLAN clients
  - Up to 4x4 MIMO
  - In reality also other kind of base stations like LTE or WiMAX can be supported
- Enables IP throughput vs attenuation measurements on for example the new 802.11ac WLAN standard
- Contains four 95dB step attenuators with 1dB steps
  - Control through TCP-IP (Ethernet)
  - All ports available on the front using N-connectors
- Contains insertion loss calibration information for accurate measurements on both 2.4 GHz and 5 GHz band

# Test Set-up Example - 802.11ac Device Testing



- 802.11ac AP can be tested in a similar way
  - AP inside chamber and client outside chamber

# ISS11 – Order Information

- ISS11 – Instrument Switch
    - HW
      - 158: Bluetest ISS11 Instrument Switch (Base package)
      - 159: ISS11 Instrument Switch upgrade for 4x4 MIMO
    - SW
      - No additional SW needed
      - Works with the regular Bluetest Measurement Suite
    - Cables
      - N-SMA cables needed
      - 162: 1.2m Sucotest\_18
      - 163: 1.8m Sucotest\_18
  - ISS11 – Attenuator System
    - HW
      - 164: Bluetest ISS11 4x4 Attenuator System
    - SW
      - 279-13: TPUT-IP SW for ISS11 Attenuator
        - Supports both UL & DL on AP and client Stations
      - 263-x: TPUT-IP UE App for the client
    - Cables
      - Regular N-N cables can be used from RTS to ISS11 Attenuator
      - Cables from ISS11 to External AP provided by customer (Connectors on external AP are unknown)
- 19” Rack mount flanges included as default for all ISS11