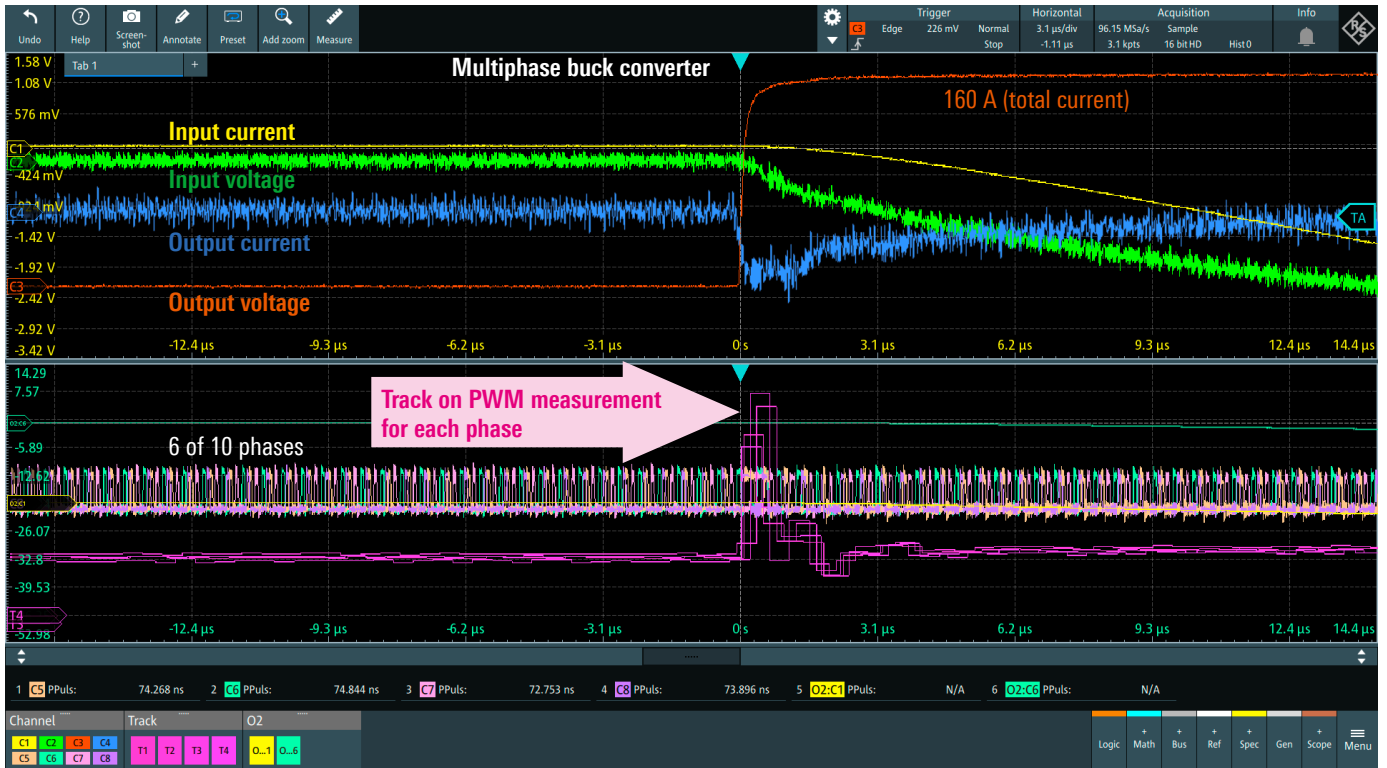# R&S®ScopeSync SOFTWARE

Are you working with an application that requires oscilloscope measurements on more than eight channels such as power conversion (three-phase voltage and current, DC link voltage and current as well as sensors), PMICs (multiphase buck converters with 16 or more phases) or FPGAs (complex power up/down sequencing with surrounding system)?


Quickly synchronize two oscilloscopes for measurements on up to 16 channels. No special equipment is needed; you only need to make three simple physical connections:

▶ Using a LAN cable, connect the two oscilloscopes to each other, both to a switch or both to a network
▶ Connect two BNC cables
  – Connect the Trig out/in signal
  – Connect both oscilloscopes to the same 10 MHz timebase clock to ensure accuracy

Your R&S®ScopeSync physical connection is now ready.

R&S®ScopeSync synchronization of two oscilloscopes
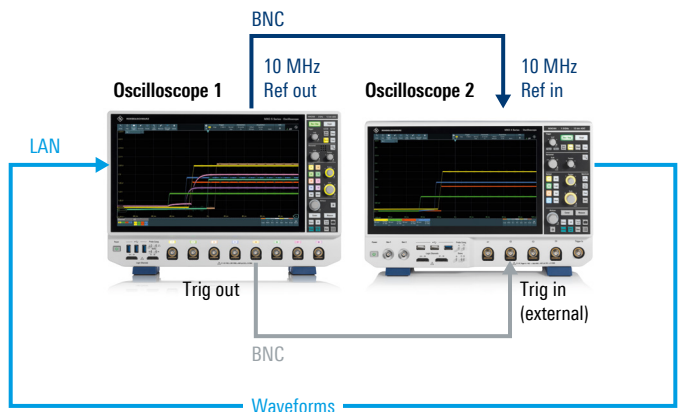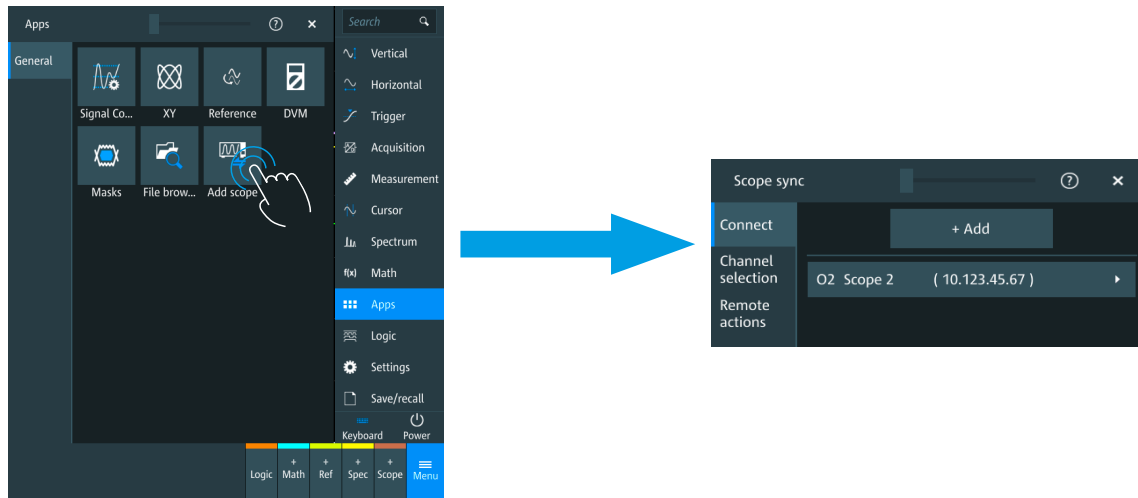
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Make ideas real

FEATURES

Easy setup on the oscilloscope

Using the R&S®ScopeSync menu, enter the IP address of the secondary oscilloscope
(referred to as O2 Scope 2 in the user interface).


Align trigger with automatic deskew

R&S®ScopeSync automatically aligns both oscilloscope triggers to the same point in time. An auto-deskew feature measures the trigger out delay between two MXO oscilloscopes and uses this value to align trigger points. Simply connect the passive probes delivered with the oscilloscopes [1] from C1 of both oscilloscopes to the same probe compensation signal and the oscilloscope will make the calculation for you.
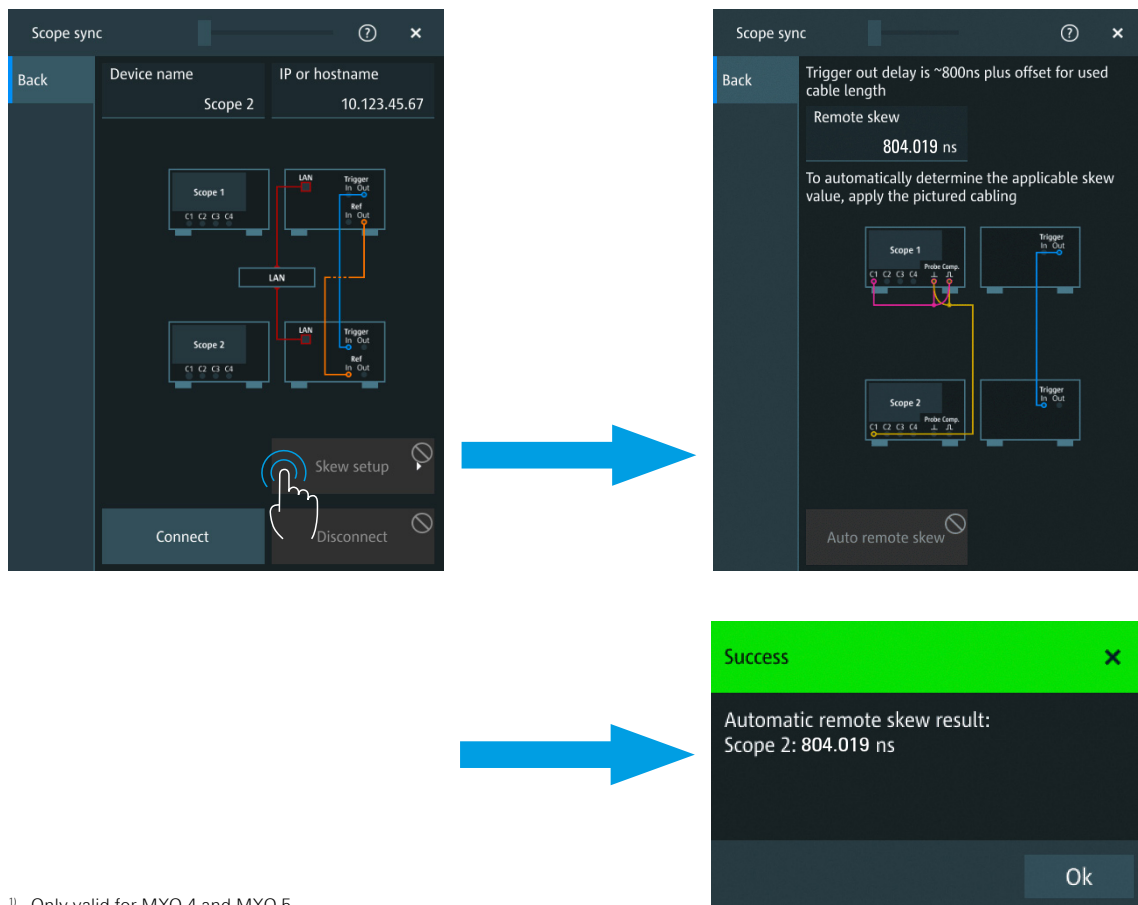
[1] Only valid for MXO 4 and MXO 5.

# Leverage all your oscilloscope's analysis capabilities

With all acquired signals in a single oscilloscope, use measurements, math and applications such as protocol decode, choosing any of the oscilloscope channels as the source.

O2 (oscilloscope 2) refers to the secondary oscilloscope
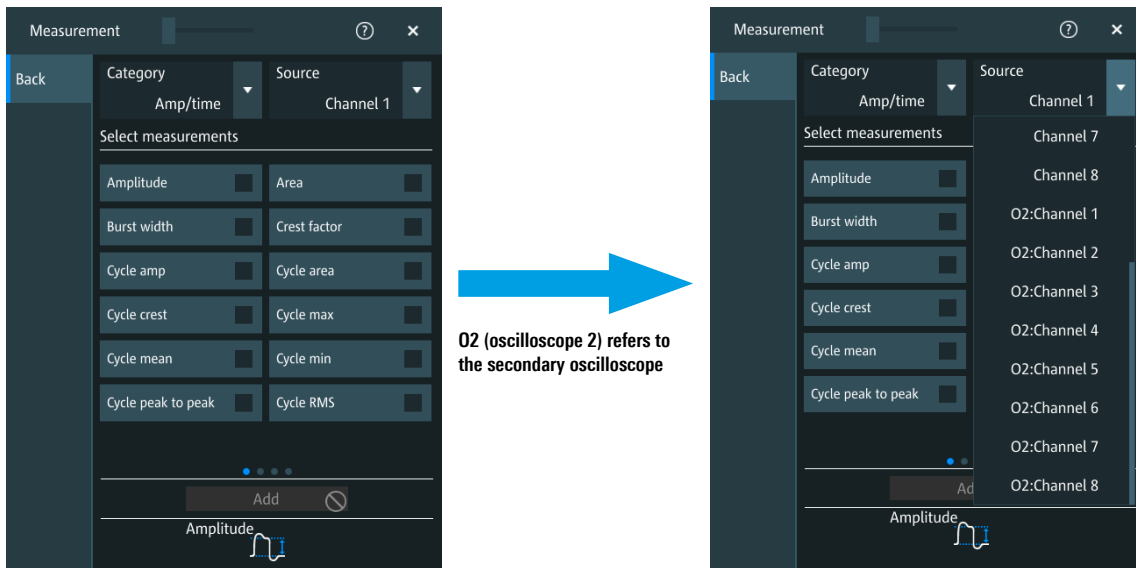
Make up to 24 channel measurements

Up to 24 channel measurements can be made in two steps. First, use a power splitter to divide the Trig out and 10 MHz Ref out signals from the primary oscilloscope between two secondary oscilloscopes. Import channels 9 to 16 using R&S®ScopeSync. Second, tap "Get signals" to add channels 17 to 24 from the third oscilloscope.

Two-step process for up to 24 measurements
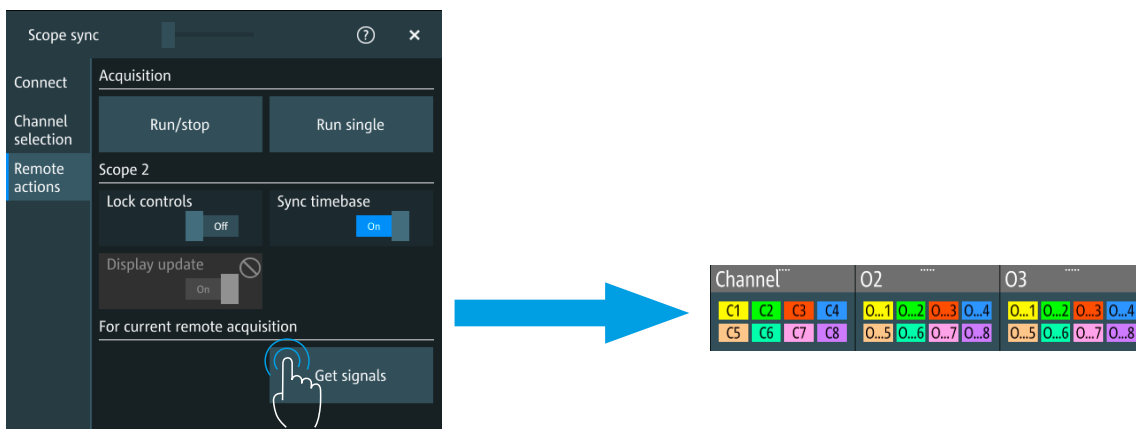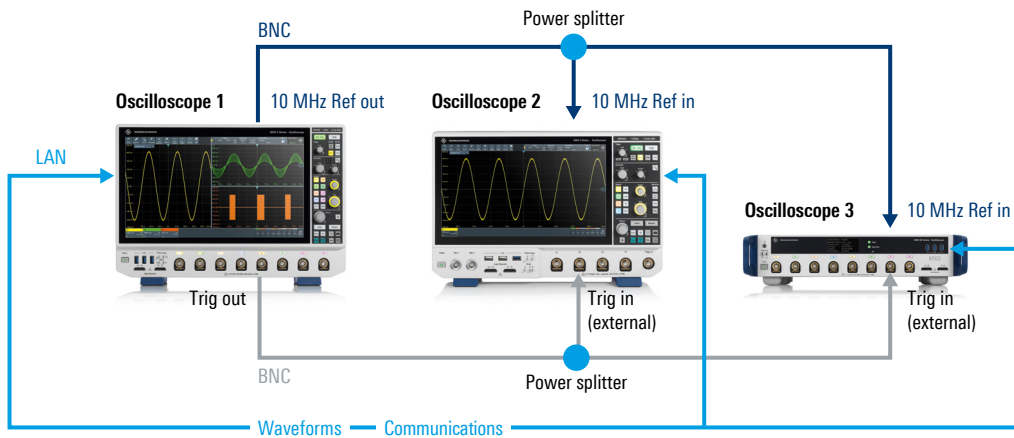
Compatible with MXO 4, MXO 5 and MXO 5C series oscilloscopes

R&S®ScopeSync is a standard feature available for the MXO 4, MXO 5 and MXO 5C oscilloscopes from firmware V2.6 onward. Synchronize your MXO 5 with an MXO 4 or take advantage of the compact form of the MXO 5C to see 16 channels on one oscilloscope without compromising lab space. Oscilloscopes with different bandwidths, sample rates, memory depths and channel counts can still be synchronized.