

BESA

Connectivity 2.0

From raw data to source connectivity in five steps

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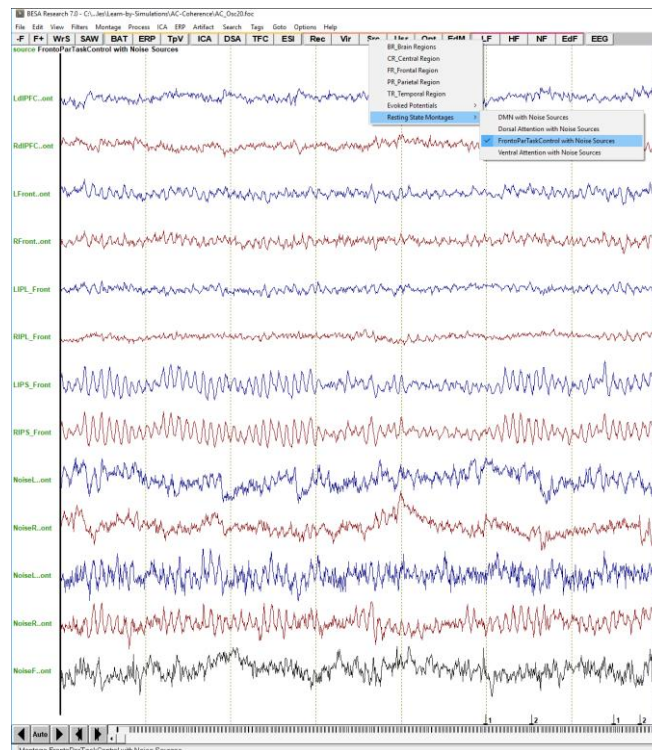
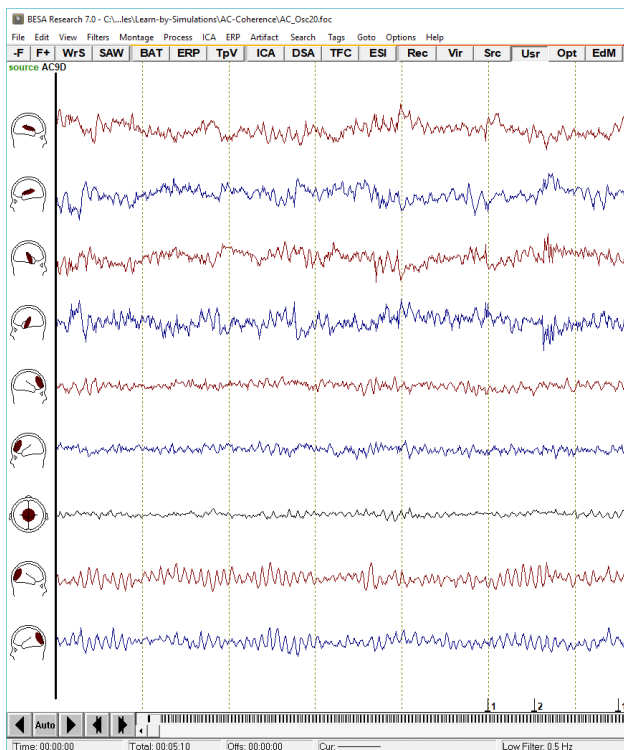


1) In BESA Research 7.1, choose a (source) montage

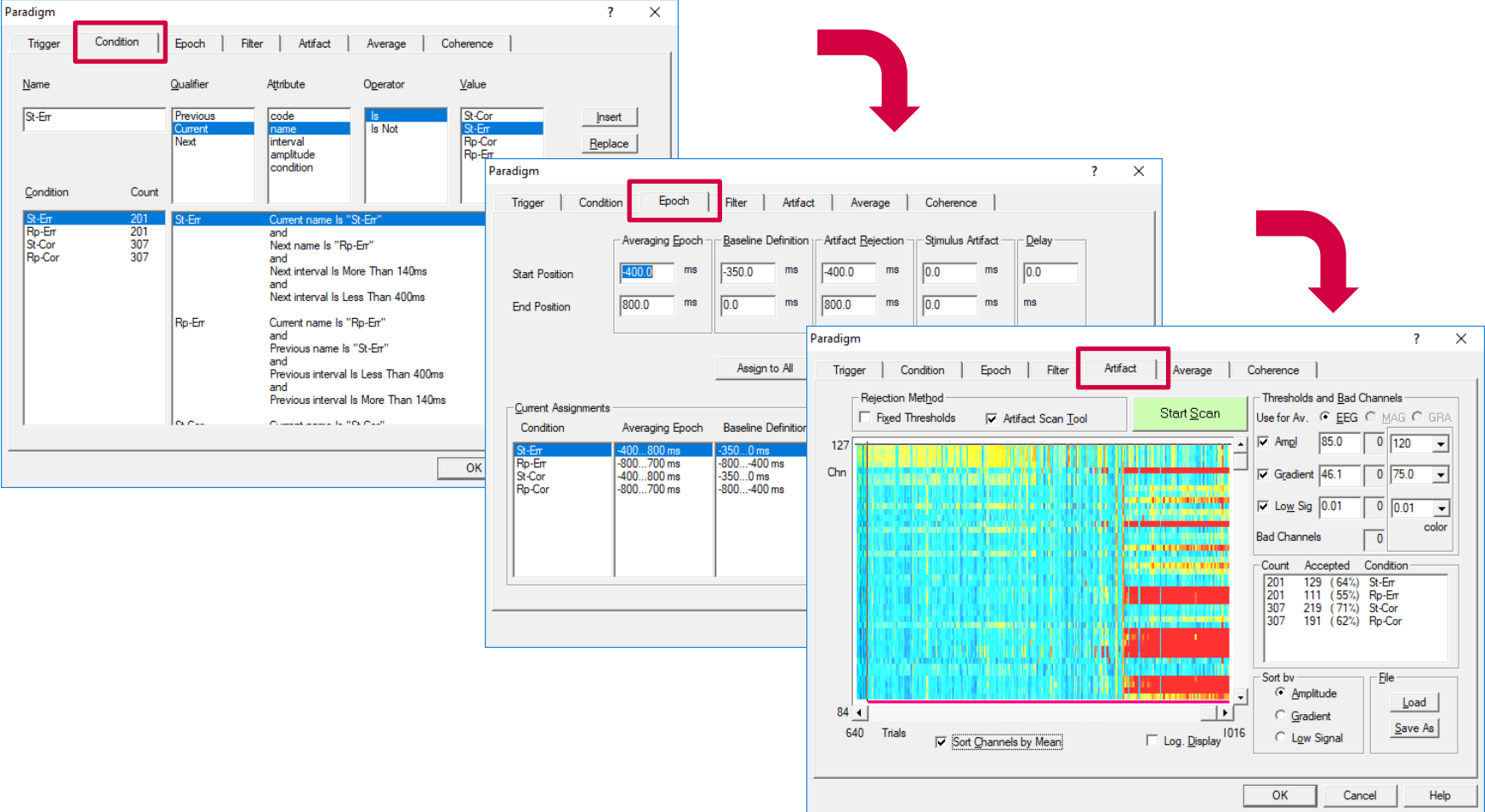
Define own source montage using
BESA Source Analysis

or

Use a pre-defined BESA (source)
montage



2) Define conditions and epochs of interest in the ERP module and reject artifacts



The image shows three overlapping screenshots of the BESA software interface, illustrating the process of defining conditions and epochs of interest in the ERP module and rejecting artifacts. Red arrows indicate the flow from the first screenshot to the second, and then to the third.

Paradigm - Condition

Name	Qualifier	Attribute	Operator	Value
St-Er	Previous	code	Is	St-Cor
	Current	name	Is Not	St-Er
	Next	interval amplitude condition		Rp-Cor

Paradigm - Epoch

Averaging Epoch: -400.0 ms to 800.0 ms
Baseline Definition: -350.0 ms to 0.0 ms

Paradigm - Artifact

Rejection Method: Fixed Thresholds Artifact Scan Tool Start Scan

Thresholds and Bad Channels:

Use for Av.	EEG	MAG	GRA
<input checked="" type="checkbox"/> Amplitude	85.0	0	120
<input checked="" type="checkbox"/> Gradient	46.1	0	75.0
<input checked="" type="checkbox"/> Low Sig	0.01	0	0.01

Bad Channels: 0

Count Accepted Condition

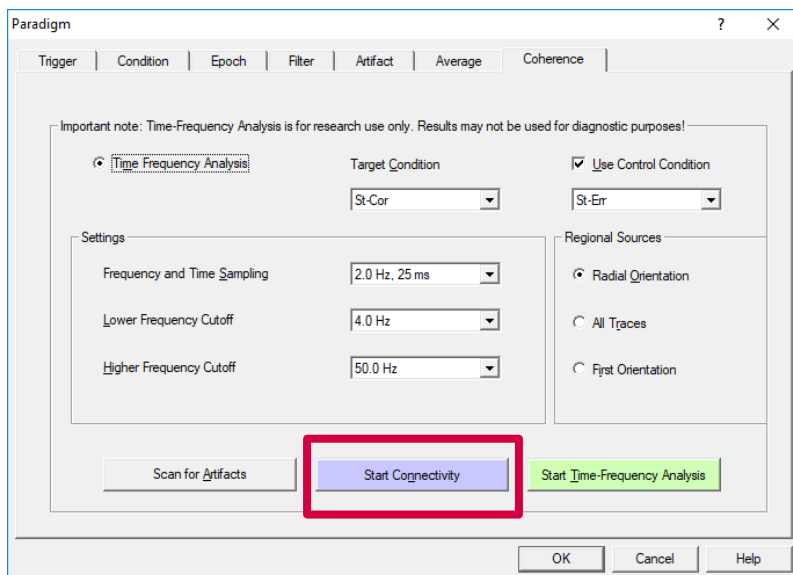
Count	Accepted	Condition
201	129 (64%)	St-Er
201	111 (55%)	Rp-Er
307	219 (71%)	St-Cor
307	191 (62%)	Rp-Cor

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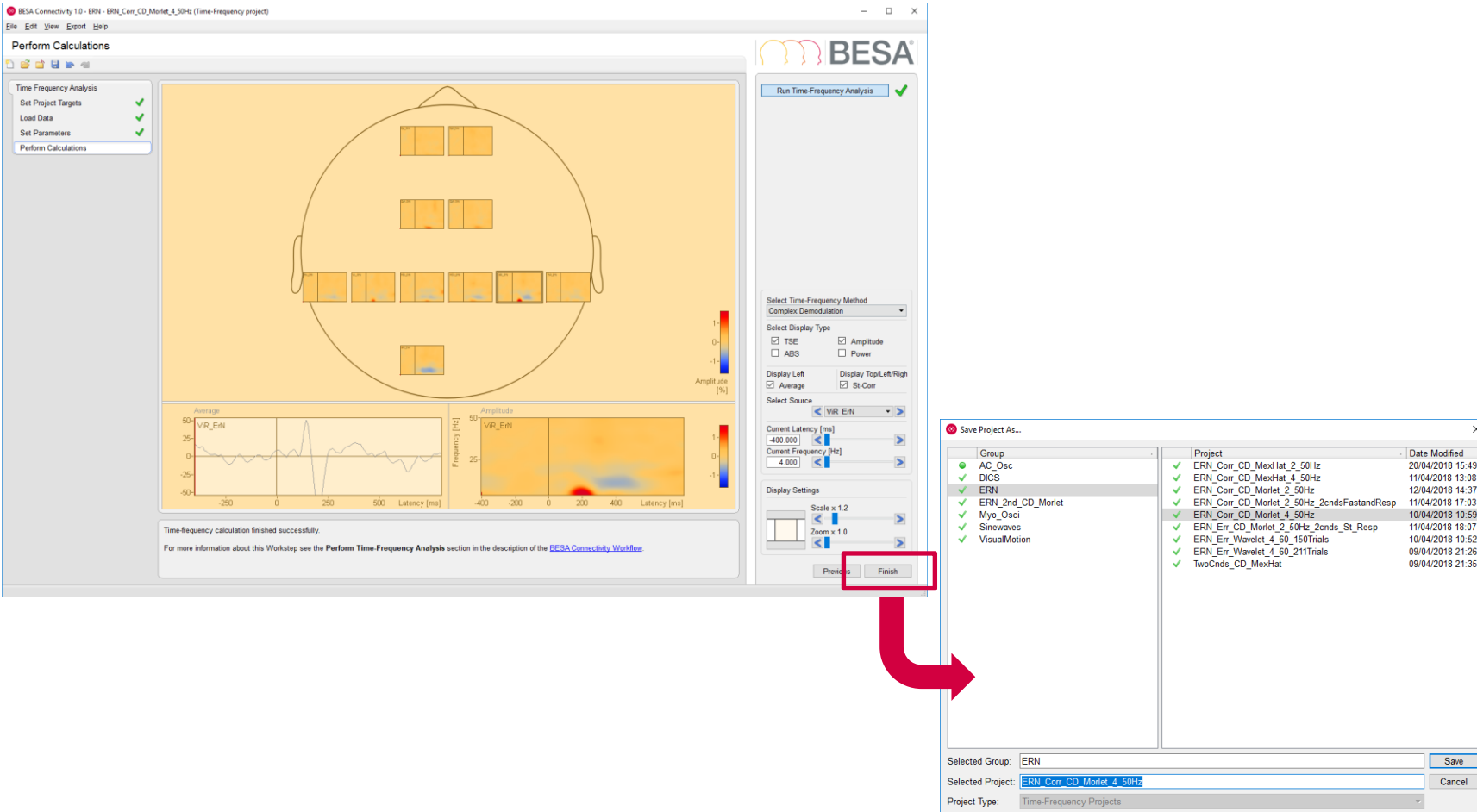
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3) Start **BESA Connectivity** in the Coherence tab



4) Follow the steps of the Time-Frequency workflow in BESA Connectivity



The screenshot shows the BESA Connectivity software interface during the Time-Frequency Analysis workflow. The main window displays a topographic map of the head with electrode locations, a time-frequency plot, and a summary table. A 'Finish' button is highlighted with a red box and an arrow pointing to a 'Save Project As...' dialog box.

Time-Frequency Analysis Summary Table:

Group	Project	Date Modified
AC_Osc	ERN_Corr_CD_MexHat_2_50Hz	20/04/2018 15:49
DICS	ERN_Corr_CD_MexHat_4_50Hz	11/04/2018 13:08
ERN	ERN_Corr_CD_Morlet_2_50Hz	12/04/2018 14:37
ERN_2nd_CD_Morlet	ERN_Corr_CD_Morlet_2_50Hz_2cndsFastandResp	11/04/2018 17:03
Myo_Osc	ERN_Corr_CD_Morlet_4_50Hz	10/04/2018 10:59
Sinewaves	ERN_Err_CD_Morlet_2_50Hz_2cnds_St_Resp	11/04/2018 18:07
VisualMotion	ERN_Err_Wavelet_4_60_150Trials	10/04/2018 10:52
	ERN_Err_Wavelet_4_60_211Trials	09/04/2018 21:26
	TwoCnds_CD_MexHat	09/04/2018 21:35

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5) Run the Connectivity workflow for the same input project

