

In order to validate transactions, Arbitrum uses multi-round proofs in an interactive verification game between the prover and sequencer, whereas Optimism previously used single-round fraud proofs executed on L1. This was until a flagged vulnerability led to the disabling of their proofs. Optimism still operates today without fraud proofs meaning users must trust the Sequencer node (run by Optimism PBC). This isn't currently of too much concern due to the centralised nature of both L2s (one must also trust the Arbitrum Sequencer node).