The Schlumberger dual-technology (DT) trailer is a mobile unit that treats produced and flowback water, delivering up to 17,000 bbl/d of frac-grade water. The DT trailer separates oil, water, and solids with a Voraxial cyclonics 4000 and then either directs the effluent to a flocculating and settling tank or sends it through a media filter for polishing to remove oil and suspended solids.

The combination of two key water treatment processes in a mobile unit enables more flexibility for accommodating multiple water treatment configurations at a production site. Plus, the unit is fully automated, requiring minimal personnel for operation.

**Effective separation of water, oil, and suspended solids**
Voraxial cyclonics uses a unique no-shear, nonclogging impeller to induce radial and axial flow for three-way separation of water, oil, and solids. This simultaneous separation during continuous flow means that only one pass is required through the unit, and there is no associated pressure drop.

**Oil and suspended solids removal**
Two filtration vessels accommodate a variety of media, including nutshell filters, sand, or MYCELS® RE-GEN media. Water chemistry is analyzed prior to deployment of the DT trailer to select the most performant media for your operation.

**How it works**
The feed pump runs oilfield water through the DT trailer at 50-psi gauge pressure. Oil, water, and solids are separated using a Voraxial cyclonics 4000 and then the effluent is either directed to a flocculating and settling tank or sent through a media filtration vessel for polishing to remove oil and suspended solids. Multiple injection quills along the chemical injection skid effectively feed chemicals to the flow at the most optimal point.
The DT trailer treats produced and flowback water, delivering up to 17,000 bbl/d of frac-grade water.