



Accelerate Downstream Oil and Gas process modeling insights with the new OLI Platform V10

30 <i>New Enhanced Capabilities</i>	4 <i>Solution Areas</i>	4 <i>Downstream Application Categories</i>
<ul style="list-style-type: none"> • 7 new chemistries • 9 new software features • 14 software quality updates 	<ul style="list-style-type: none"> • Desulphurization • Scale Prediction • Corrosion Prediction • Water Treatment 	<ul style="list-style-type: none"> • Product Processing • Sour Water • Utility Water • Gas Processing

Boost Operational Efficiency, Reliability, and Compliance

Increase operational efficiency with better asset and process design

- ✓ Better scaling and corrosion prediction for iron carbonate chemistries
- ✓ Accurate corrosion prediction for a new set of corrosion-resistant alloys (CRAs)
- ✓ Enhanced corrosion model predictions for existing alloys in the OLI database
- ✓ Accurate simulation of refinery overhead corrosion (V 9.6 capabilities)

Mitigate risk and enhance compliance with better operations insights




- ✓ Effective elimination of contaminants with accurate prediction of humic substances
- ✓ More effective elimination of toxic elements like selenium
- ✓ More effective sulphur recovery processes and, low sulphur marine fuel operations
- ✓ More effective sour water stripping operations

Accelerate productivity of process modeling users with software enhancements

- ✓ Faster, simpler process simulation with ionic input capability and engine performance updates
- ✓ Greater flexibility in creating simulation cases with virtual streams
- ✓ Automation of hardness, TDS, and pH calculation at a reference condition



Highlights of OLI Platform V10 applications in Downstream Oil & Gas

Product Processing	Gas Processing	Utility Water
		
Hydrotreating – NH ₃ – H ₂ S Corrosion, Alkylolation, MEROX	Gas sweetening, Sulphur recovery, Corrosion	Cooling towers scaling, corrosion; water softening

New chemistries and software features in OLI Platform V10

<i>New chemistries and data parameters</i>	<i>New and enhanced software features</i>
<ul style="list-style-type: none"> Iron carbonate complexation New CRAs: S13CR, S15Cr, S17Cr, and 2550 Enhanced Alloy Chemistry: 625, 825, 22, 276, and 2205 Humic substances – humic, fulvic, tannic and gallic acids Selenium Sulphur dioxide, ammonia 	<p>OLI Flowsheet: ESP</p> <ul style="list-style-type: none"> Ionic input of species RO unit operations Enhanced multistage column specifications Faster calculations: larger model handling capability Hardness, TDS, and pH calculation at standard conditions Virtual streams, and easier upfront unit configuration <hr/> <p>OLI Studio</p> <ul style="list-style-type: none"> Hardness calculation reported as liquid property Option to enable TDS as a rigorous calculation and a call out property for at-a-glance insight Updates to corrosion in high CO₂ concentrations Thermodynamic model selection tool for easier decision making

Key Reasons to choose the OLI Platform for water chemistry simulations

- Accurate corrosion prediction for a broad range of materials, conditions
- Accurate desulphurization simulation to ensure regulatory compliance
- Accurate, sustainable industrial water treatment insights
- Accurate mineral scaling prediction for a broad range of conditions
- Most versatile and flexible simulation software platform
- Proven capabilities across 500+ global deployments
- Cloud and Digital Transformation Roadmap

Learn more about OLI Platform V10

