



# Wipro Rapid LNG

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Liquefied Natural Gas (LNG) is expected to be the fastest growing fossil fuel source for the next two decades. There is little doubt that Asia will continue to be the key market for LNG for many years to come. To compete and win in these new market environments, companies need to be able to manage their margins better and maintain or reduce their operating costs. An investment in a market-leading solution can help a business navigate through uncertain times and create new opportunities.

## The solution

Rapid LNG is a powerful out-of-the-box software solution for your end-to-end LNG planning, shipping and trading requirements. Rapid LNG combines industry-leading tools from Wipro, OpenLink and Veson Nautical to offer LNG leaders the best-in-class decision-making tools.

Rapid LNG successfully brings all the requirements of the full LNG supply chain together in a complete end-to-end integrated solution.

### One stop shop to manage your complete LNG business.



#### Wipro

LNG operations and delivery **planning**



#### Wipro PAO

- PAO for production planning and annual delivery plans
- Leading edge optimization algorithms
- Scenario planning
- Accommodate for disruptions and capacity constraints



#### Wipro

LNG specific **trading** and risk management model



#### Endur LNG Xpress

- Contract management
- Risk/credit management
- Confirmations and settlements
- Hedging strategies
- Real-time position management



#### Veson Nautical

LNG **shipping** operations and optimization



#### IMOS LNG and Veslink

- Chartering
- Planning
- Operation
- Demurrage
- Bunker management

## Wipro's PAO (Planning & Optimization) solution for LNG:

Wipro's PAO is the planning component of the Rapid LNG solution. The solution is geared towards optimizing the entire supply chain for LNG companies, by preparing operational plans and delivery schedules for the entire year. It utilizes sophisticated operational research algorithms to solve this problem.

Wipro's PAO is a pre-configured solution that supports LNG producers and customers of all sizes to maximize vessel and berth utilization, while minimizing costs associated with inventory and transportation.

PAO enables users to prepare an Annual Delivery Plan (ADP) taking into account various constraints and schedules to meet planning objectives, almost in real-time. The solution is a powerful tool that enables users to capitalize on flexi and spot contract opportunities.

Integrated with Endur LNG Xpress and Veson Nautical IMOS LNG, PAO delivers sensitivity analysis to measure the impact of various logistical changes and customer-requested schedule or quantity changes. In short, the solution enables the scheduler to make faster and more efficient decisions, while providing a record of the decision-making process.

## OpenLink's Endur LNG Xpress

Endur LNG Xpress by OpenLink, is the trading and risk management component of the Rapid LNG solution. Endur LNG Xpress is an out-of-the-box, pre-configured solution based on the market-leading solution Endur. Endur LNG Xpress utilizes an intelligent real-world physical trading model, alongside a scalable logistics framework, bringing an efficient Transaction Lifecycle Management system to customers. This enables them to manage all of their LNG Trading and Risk Management with a single solution.

Endur LNG Xpress facilitates a powerful setup for full-scale straight-through processing, reporting around the complexities of the LNG market in an industry-leading framework, all in a cost-effective, easy-to-implement package.

## Veson Nautical's IMOS LNG:

The Integrated Maritime Operations System (IMOS) and IMOS LNG by Veson Nautical, is the vessel management component of the Rapid LNG solution.

IMOS, Veson Nautical's flagship solution, empowers faster and more strategic decision-making, supporting owners and charterers to realize revenue growth, protect voyage P&L, and optimize performance.

IMOS integrates the flow of real-time information across Chartering, Operations, and Financials. Add-on modules for specialized business needs extend the benefits of an integrated system to a broader range of functions and departments such as LNG. IMOS LNG offers LNG tanker charterers and owners the first software solution designed around their business process. IMOS LNG captures LNG vessel and voyage properties, and streamlines operational data-flow. The automation of LNG-specific bunker calculations enables users to generate accurate voyage P&Ls and increase operational efficiency.

**Pre-configured solution that supports LNG producers and customers to maximize vessel and berth utilization**

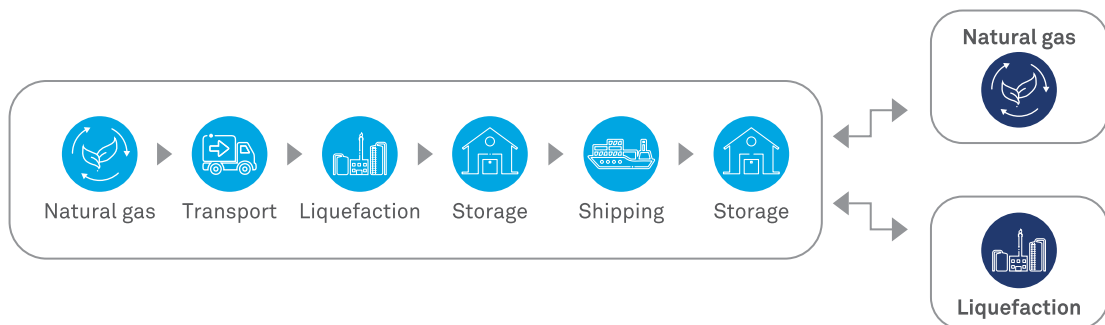
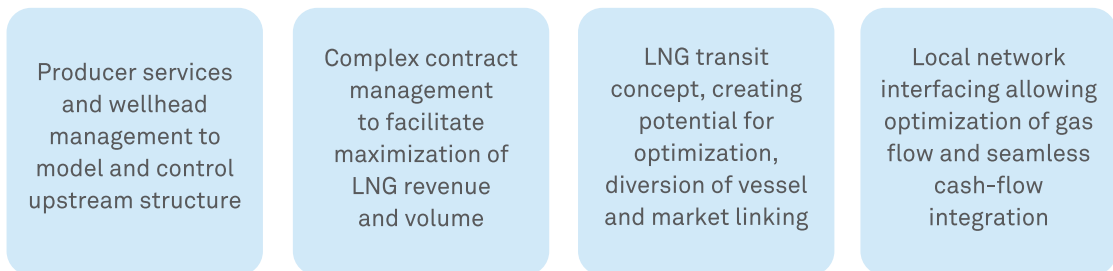
## End-to-end LNG solution



### Cost areas



### ETRM solution benefit



## Benefits

- Enable comprehensive risk management throughout the supply chain due to seamless integration between Endur LNG Xpress, IMOS LNG and Wipro PAO
- Improve decision-making and increase profits, through powerful reporting and greater visibility into costs across your business.
- Trim operating costs by reducing the need for expensive reconciliations and IT infrastructure, by leveraging this rapidly deployable pre-configured solution.

## Features

- Manage risk and P&L reporting across your LNG assets in real-time, including maritime transportation as well as physical and paper trades.
- Deliver robust functionality to support your trading, chartering, voyage operations, and financial department's workflow and success.

- Automate LNG-specific bunker calculations like Boil-off/FOE Conversion allowing your shipping operations to generate accurate voyage P&Ls and increase operational efficiency.
- Optimization of the entire supply chain for LNG and preparation of an operations and delivery plan for the entire year.
- Seamless data-transfer throughout the entire LNG value chain.

**Intelligent real-world physical trading model and scalable logistics framework, bringing the Transaction Lifecycle Management system to customers**



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