

## TERMINAL OPERATING SYSTEM (TOS) IMPLEMENTATION AND INTEGRATION SERVICES

### SERVICES:

Advent eModal (AeM) has proven and repeatable methodologies for implementing TOS systems regardless of brand. AeM brings extensive experience implementing and integrating TOS systems with external application and hardware functions, such as:

- Security – TWIC integration and secure perimeter processing
- PreGate – appointment systems and pre-advice
- Gate Operating Systems (GOS) – OCR portals, weigh in motion scales, radiation portals, M&R, License Plate Readers (LPR), RFID
- Systems Integration with extensive EDI, XML and RESTful API processing
- Hardware set up and maintenance including data center compute and handheld mobility
- Fiber, wireless mesh and 5G networks
- Crane OCR integration
- Data collection, assemblance, aggregation and analytics
- Real-Time Locating System (RTLS) integration

### FUNCTIONAL AREAS:

Examination of each functional area with horizontal comparison for process and data integration touch points.



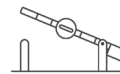
Berth



Yard



Rail



Gate



Analytics

**SYSTEMS AND PROCESS LANES**

DISCOVERY	ANALYSIS	DESIGN	INTEGRATION
<p>A defined and deliberate discovery process combining our experienced professionals with terminal subject matter experts (SME) that compare “As is” processes with “To be” processes for gap determination.</p>	<p>A combination of process and systems analysis that prepares the team for application configuration design. A series of SOPs are prepared factoring in all key terminal operational stakeholders.</p>	<p>A documented suite of business rules that drive configurations. Customizations will be reconciled against processes to minimize coding. A design document is produced becoming the basis for system configuration.</p>	<p>Application design and business process configuration. Integration of 3rd Party ERP, Appointment and Gate Systems, as well as RTLS, RFID, TWIC and smart sensor technologies.</p>
TESTING	GO-LIVE	SUSTAINMENT	<p><b>PRICING MODEL</b></p> <p>Fixed fee discovery, assessment, implementation planning and documentation for forward budgeting purposes.</p>
<p>Incremental unit testing is completed as the configuration progresses. Complex integration testing readies applications for production, including performance, database tuning and hardware sizing.</p>	<p>A fully developed and managed plan is executed with onsite launch organization of all system partners. Roll back plans remain on contingency standby pending a successful 72-hour Go-Live period.</p>	<p>Support process launch as systems and process tuning continues. The Project Team scales down while change management is enabled throughout software and hardware platforms.</p>	