

Tracking for Trouble

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About OOCL

- Orient Overseas Container Line, Ltd.
 - Founded in 1947
 - 270 offices in 60 countries
 - Member of Grand Alliance, operating 120 container ships
 - Fleet of containers sized at 700,000 TEU (Twenty-foot Equivalent Units)
 - Over \$6 billion in annual revenue
 - Considered a leader in information technology in the ocean carrier industry
 - TIBCO customer since 2006
 - EMS, Business Works, Business Events, B2B and EDI Connect, Spotfire, and RTView





Highlighting OOCL's Performance

- American Shipper magazine, July 2012 Article "A Seasick Industry"
 - OOCL was one of only two carriers in the industry to achieve a profit in 2011
 - OOCL had the largest profit in the entire industry for the past five years combined
 - "Over that five year stretch, one line stands out OOCL has made at least double the
 profits of every other publicly traded carrier save for Maersk Line, which is five times
 bigger in terms of revenue".
 - "OOCL has consistently outperformed the pack, despite their relatively modest scale. Good management remains key". -- Tan Hua Joo, Executive Consultant, Alphaliner





Good Management

- Being able to see what is going on now.
- Having the ability to quickly separate the "wheat from the chaff".
- Getting the right people working on the right problem at the right time with the right contextual information (right?).
- Understanding of the consequences.
 - According to calculated standard averages from our industry, each minute of downtime costs about \$10,000.
 - By far the highest cost for ocean carriers is fuel. Any delay in a ship leaving port must be caught up at sea by increasing speed, which burns more fuel.
 - In a highly commoditized industry, proactive problem resolution and transparency in providing information related to issues are key differentiators.





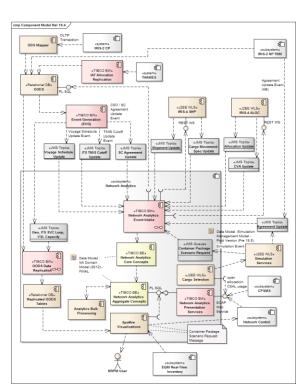
Objectives for Monitoring

- Development productivity and time to market are primary drivers
 - Effective platform for gathering, aggregating, and displaying real-time information
 - Re-use wherever feasible
 - Leverage existing data sources provided by the platform or application
 - · Capture information once
- Information must be displayed in context
 - Knowing that a server is down is only useful if we understand what that means to the business applications that depend on it.
 - Does the server host a critical business application?
 - Is the server part of a fault-tolerant configuration, and did failover occur?
 - Are other servers sharing the same platform resource also down indicating that the problem could be there?





Complexity of Systems Increasing



- Move from client / server to message oriented architecture
- Reduction in tight coupling and decomposition of systems to improve agility
- Drive to reduce information latency
- Support access to aggregated data, updated projections, or analytics results from transactional applications at the point of decision making





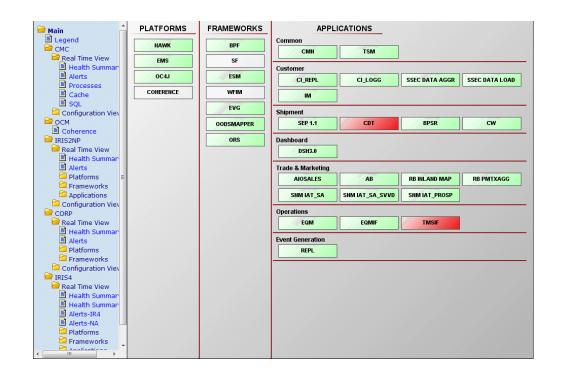
Examples of How OOCL Monitors

- Centralized monitoring of a system of end-to-end business applications
 - Central Monitoring and Control
- Monitoring of platform components
 - Standard Oracle Coherence monitoring
 - Custom Business Events monitoring
- Direct monitoring of business operations
 - Shipment checkpoint monitoring





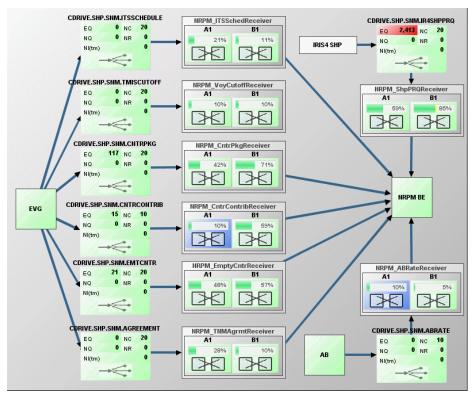
End to End Applications – Health Summary







End to End Applications – Data Flow

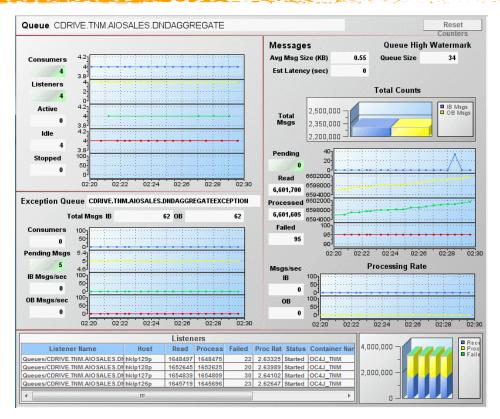








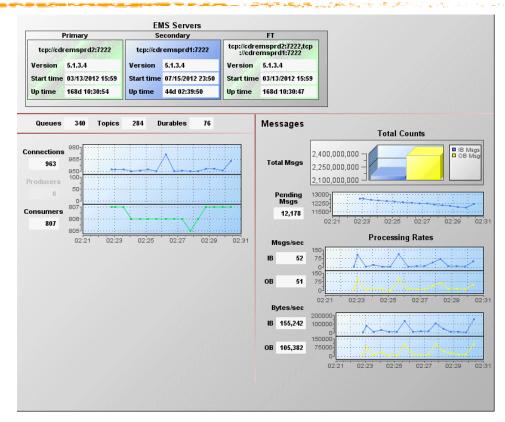
End to End Applications – Event Destination Detail







End to End Applications - Platform





Monitoring of Platform Components - OCM





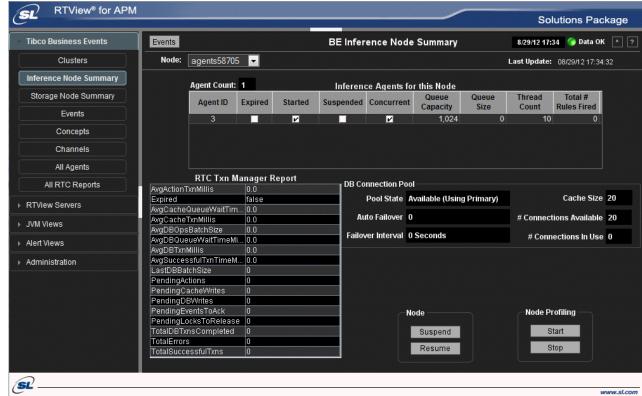


Monitoring of Platform Components - OCM



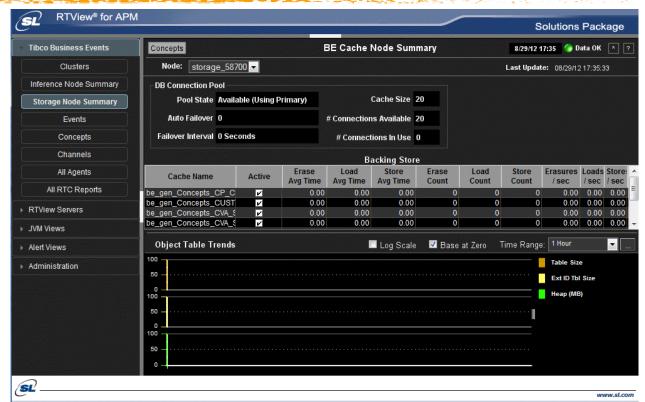






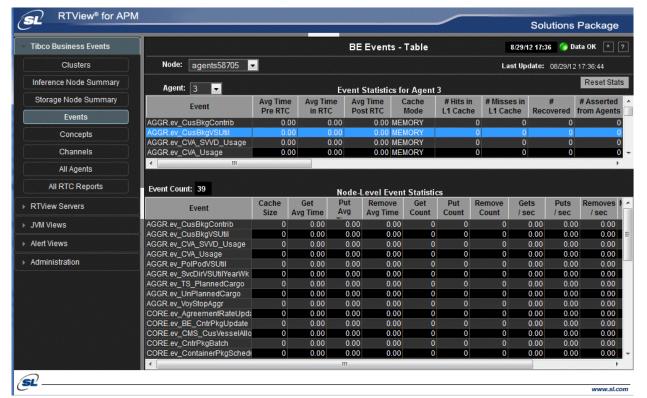






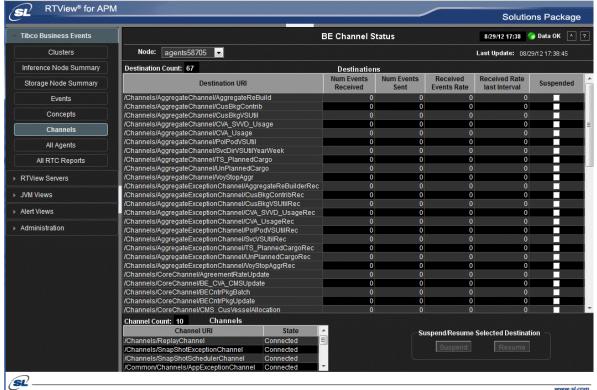








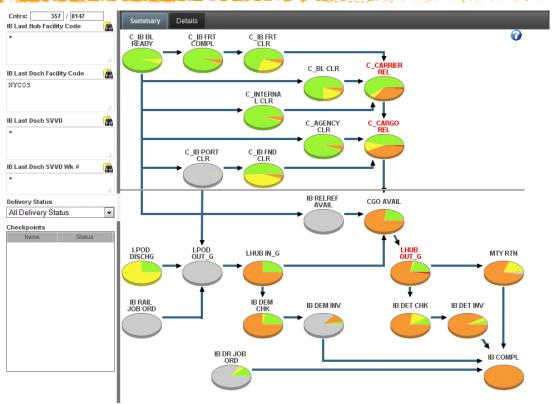








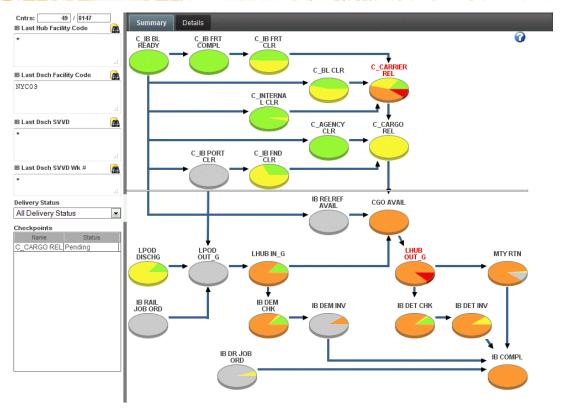
Direct Monitoring of Business Operations





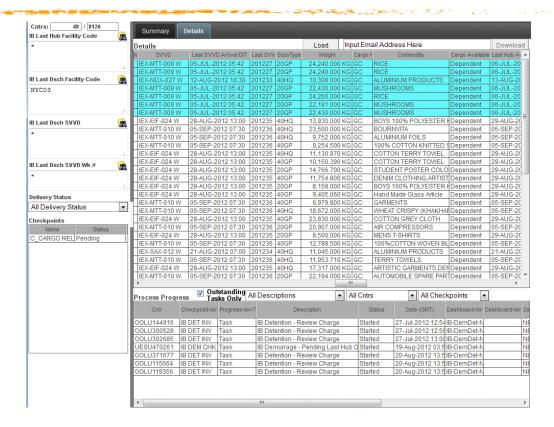


Direct Monitoring of Business Operations





Direct Monitoring of Business Operations







Next Steps

- Capture component dependency model
 - Enable automated start / stop
 - Alert consolidation
- RTView Enterprise framework
- Monitoring of Long Beach Middle Harbor
 - Fully automated ocean terminal facility
 - Capacity to load / unload three ships simultaneously
 - Effective monitoring will be critical to realizing return from OOCL's biggest investment





OOCL's RTView Experience

- Highly productive in terms of development
 - Ability to define and reuse custom components
 - Wide range of platform monitoring solutions already available
- Full featured platform for collecting, transforming, aggregating, displaying realtime information visually
- Strong alert management
- Very scalable and efficient
- Built on standard platform (Java, Tomcat)
- Able to natively collect information from commonly needed sources
 - JMS, Database, JMX, log files, ...
- Good support from a highly knowledgeable team





RTView Middleware Monitoring for TIBCO users

Packaged Monitors





TIBCO BW Monitor



Platform



RTView Standard Monitor System: Hawk, EMS, and RV

platform for rapid creation of custom monitoring applications

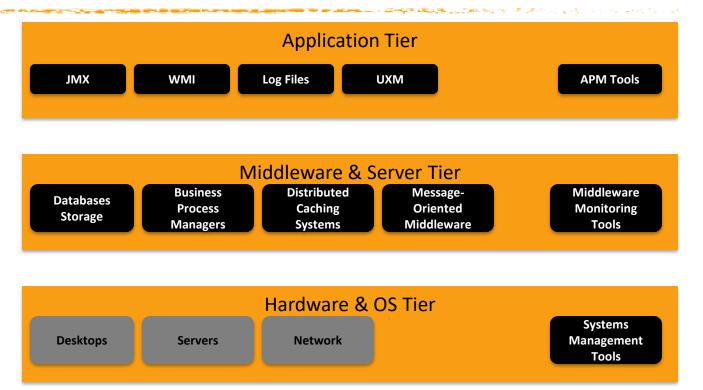


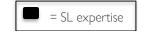






Application Domain - High-Level Overview



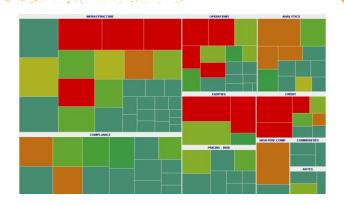






RTView Enterprise

- Application monitoring summary views analyze Business Impact and Service Criticality
- Drilldown to TIBCO and non-TIBCO infrastructure components enables the detection and pinpointing of application bottlenecks
- Lightweight solution extends existing monitoring tools and applications
- Alert workflow







Example: Single Pane of Glass at Investment Bank

- Cuts across monitoring silos for more than 100 apps across different business units
- every layer in their IT landscape
- proactively detect problems







