

If you can't clone yourself,

Delegate!





Summary

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Self Service



Self service is the practice of serving oneself... Common examples include many **gas stations**, where the customer pumps their own gas rather than have an attendant do it... **Automatic Teller Machines** (ATMs) in the banking world have also revolutionized how people withdraw and deposit funds; most **stores** in the Western world, where the customer uses a shopping cart in the store, placing the items they want to buy into the cart and then proceeding to the checkout counter/aisles; or at **buffet-style restaurants**, where the customer serves their own plate of food from a large, central selection.

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Self Service Requirements

Safe

- Oregon and New Jersey do not allow self service gas and one key reason is safety
 - A survey conducted by the Petroleum Equipment Institute showed approximately two-thirds of the documented
 cases of gas pump fires involved returning to the driver's seat.

Secure

- ATM and online account security are obvious examples.
 - Only those authorized to complete the transaction should be able to.

Simple

- Stakeholders may have little or no training
 - Interface should be intuitive and guide them to the right actions

Scalable

- Have to be able to handle the volume of consumers
 - · Higher usage can be expected



Why the Interest in Self Service?

Drivers for Self Service in WebSphere MQ

- Decreasing middleware staff
- Expanding duties of the middleware staff
- Stakeholders Increasing (development, operations, support)
- Increased complexity of the applications



Enterprise Stakeholders



Middleware Team



Application Support



Application Developers



Enterprise Architects



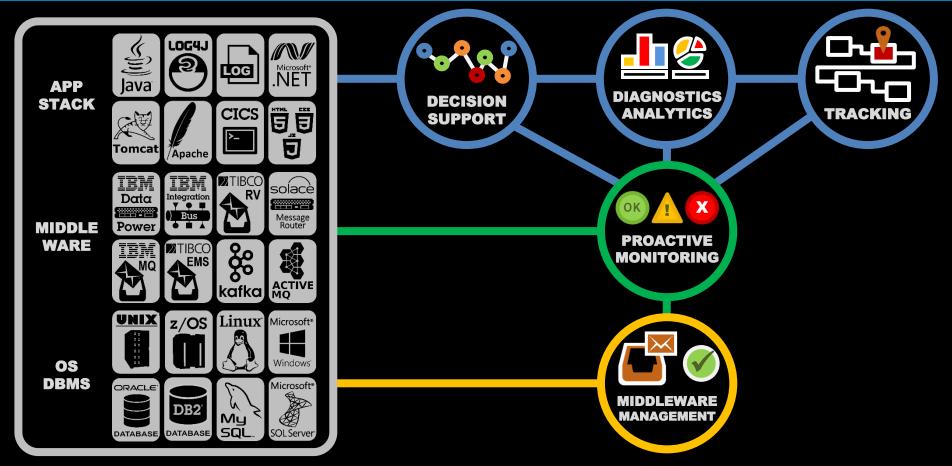
Application Owners

- DEV, TEST & PROD
- Management of messaging backbone
- Faster time to repair (MTTR)
- Identify root cause of MQ issues

- Self-Service tooling for Dev, QA & UAT testing
- Improved quality of new releases

- Improve processes
- Reduce costs
- Prevent performance problems

Nastel's Solution - 360° Situational Awareness™



Nastel Solution Summary





Nastel Xray

Predictive Analysis of your business applications using machine learning, ergonomic communications, advanced visualization and automation



Nastel AutoPilot

Proactively & Holistically Monitor Infrastructure, Platform, Middleware and Applications



Nastel Navigator

Manage Middleware, securely, efficiently and effectively ©2018 NASTEL TECHNOLOGIES, INC.

Our Clients Speak for Us

FINANCIAL SERVICES





























BNP PARIBAS





HEALTHCARE











TELCO

ENERGY









TRAVEL

























Why Nastel?

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Types of Self Service Access

Self service should provide application support, Development, or operations the ability to:

- View queue status and depth, channel usage
- Examine queues, channels, queue managers, and subscriptions
- Browse and manipulate application messages
- Act on application specific messages (move, copy, edit, route, replay, create)
- Understand behavior over time



Self Service Summary

What is our Objective? To increase the number of opportunities for the stakeholders of WebSphere MQ (and related technologies) to service themselves as long as the methods that are:

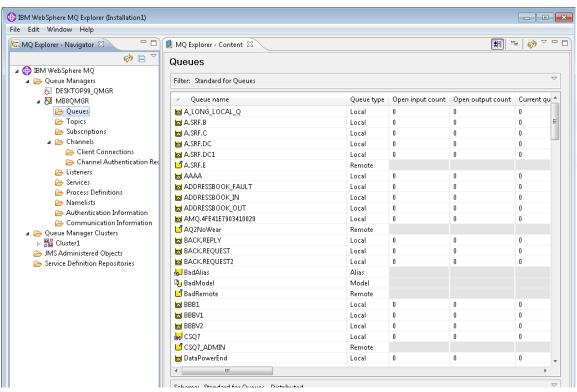
- Safe
 - Protect the systems from damage
- Secure
 - · Can only do what are authorized to do
- Simple
 - Easy to deploy and use
- Scalable
 - Large stakeholder population



MQ Networks have many attributes

- Different Operating Systems
- Different Versions of MQ
- Varied Queue Manager Definition
- Queues
- Channels
- Processes
- Etc.

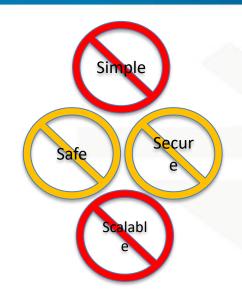






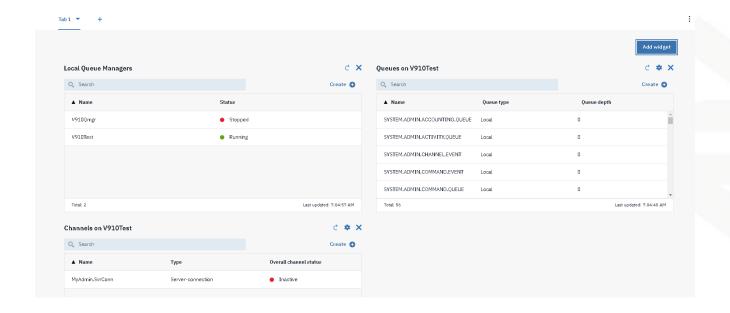
Disadvantages for Using for MQ Explorer for Self Service

- Eclipse client required
 - Installation
 - Maintenance
 - Configuration
- Can potentially see and do more than needed
 - Additional security planning required
- Problems not easily visible
 - Primarily an Admin tool
- Opening ports and client channels required
 - MQ improvements in V8/V9 Improve but still challenging





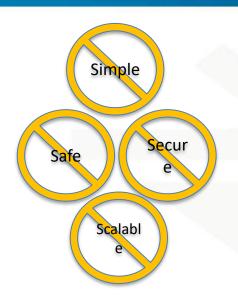
MQ Console





Disadvantages for Using for MQ Console for Self Service

- Single server view
 - Multiple logins required in a production environment
 - No ability to see across queue manager
- Can potentially see and do more than needed
 - Limited Security options (read only)
- Problems not easily visible
 - Charts provided but no analysis
- Still Evolving
 - Took 2 years to get first release to LTS version
 - 2 more years before next LTS update





Why us?

Technology .	Easy to use, deploy and consume
	Same stack for on premise and SaaS
	Built on open source stack + FatPipes™
	Unique data query & analytics language (JKQL)
Scale	Built on big data & clustered computing platform (FatPipes)
	Native multi-tenancy for SaaS and on-premise
	Linear horizontal and vertical scaling (FatPipes)
Customer . Focus .	Develop custom features and extensions
	Personal 24x7 support with inline portal
	Direct access to our R&D and roadmap
	Flexible licensing: SaaS, perpetual, term, subscriptions



Use Cases

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Common Business Challenges of Our Customers

Financial Services - Avoiding stiff penalties for failing to reconcile with Federal Reserve funds transfers deadlines

Financial Services - Reducing risk by tracking actual or potential breaches in breaches in trade compliance (e.g., Dodd-Frank trade reporting)

Healthcare - Tracking electronic health records and claims processing in healthcare insurance with strict adherence to HIPAA rules

Retail - Capturing of user experience data in real time from POS for improved business planning

Telco - Slashing support costs for for on-line order management of services

Insight through Capture, Analytics & Visualization





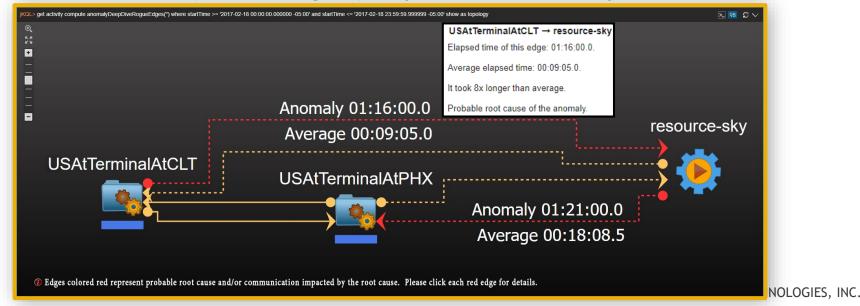
Natural query language

 Ability to ask any question about application performance, logs, transaction and metrics using JKQL English like query language.

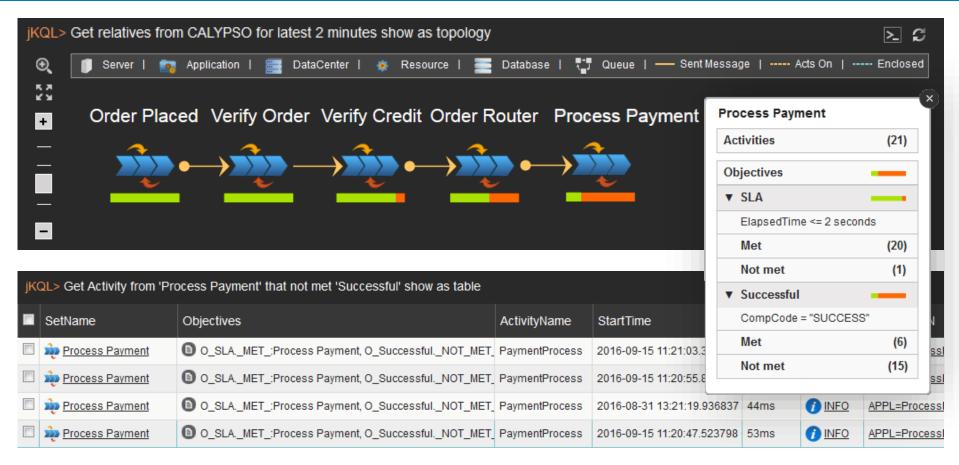


Machine Learning, Anomaly Detection & Root Cause Analysis

- Drilldown to graph of nodes and edges representing topology at time of anomaly
- Topology graph automatically created for all relationships in time window
- Related nodes are automatically stitched together
- Lines between nodes (called "edges"), represent relationships between nodes



Transaction Milestones: Retail Example

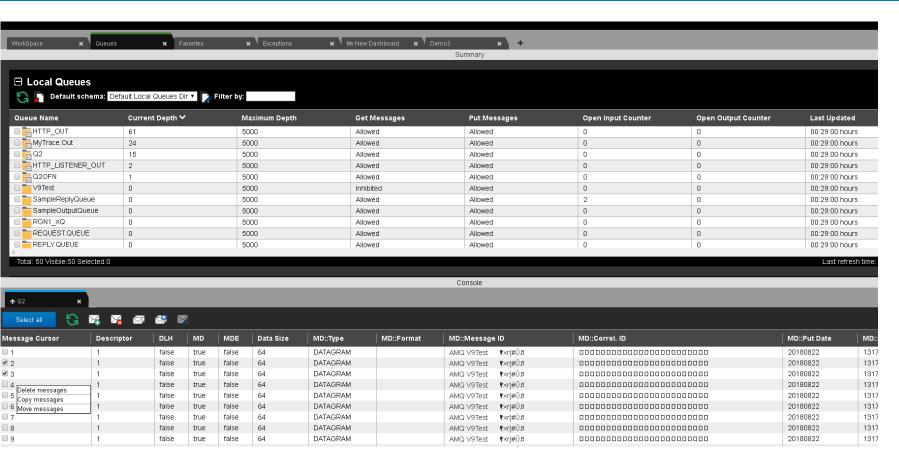




Navigator Demo

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Diagnosing MQ Messages





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