

IBM Rational Green Hat: why YOU should care

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- **Background**

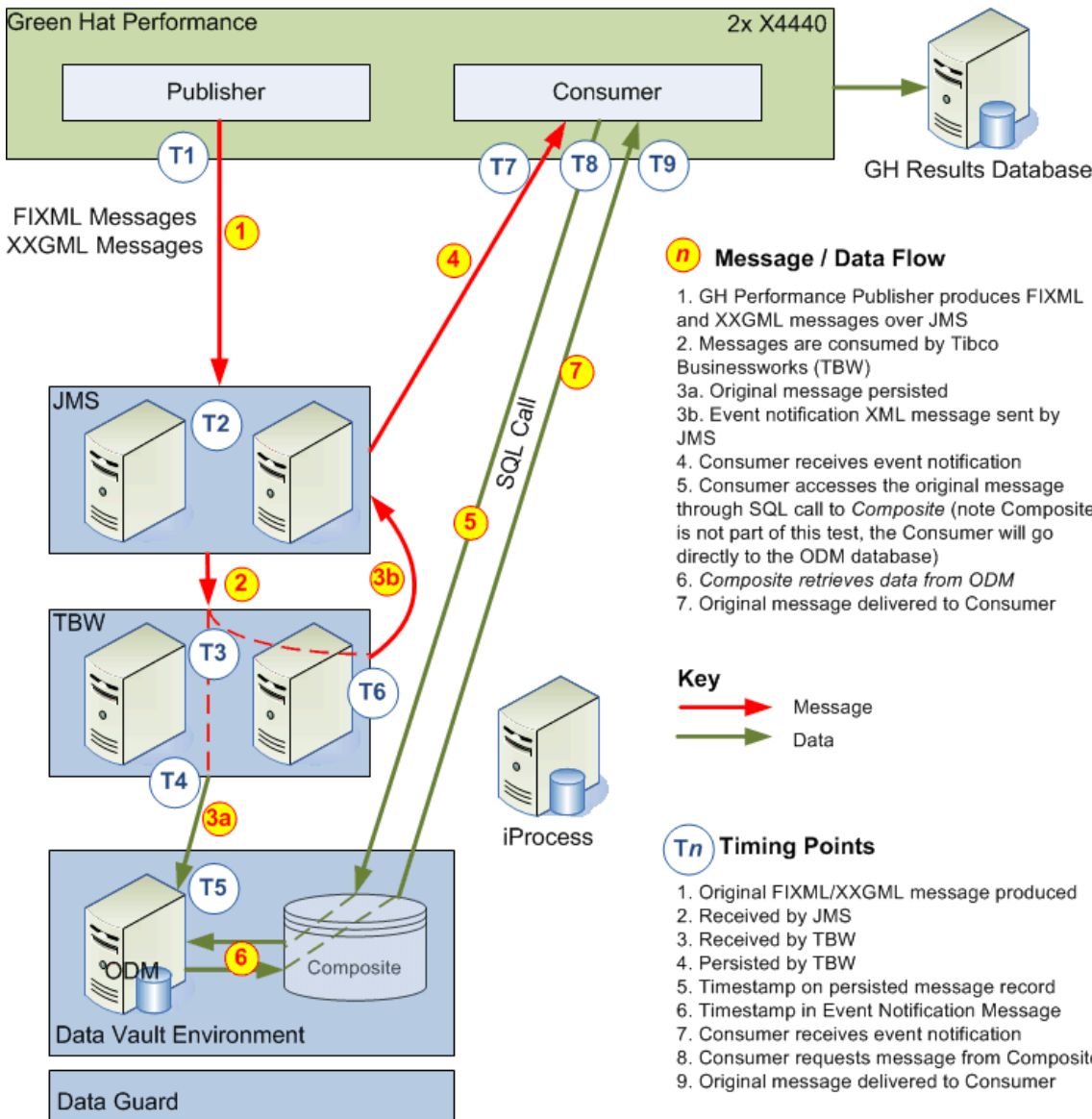
- Global Investment Bank; Location: London with Worldwide project team
- Brand new strategic ‘global trade repository’ application processing up to 4,000 trades per second (14 million per hour)
- Designed to support multiple event subscribing consumer applications

- **Requirements**

- Identify and analyse performance bottlenecks; facilitate their removal
- Confirm Infrastructure will support anticipated ‘launch load’ (800 trades per second)
- Assess various application/infrastructure configurations
- Find the limits of the application’s performance

- **Challenges and Opportunities**

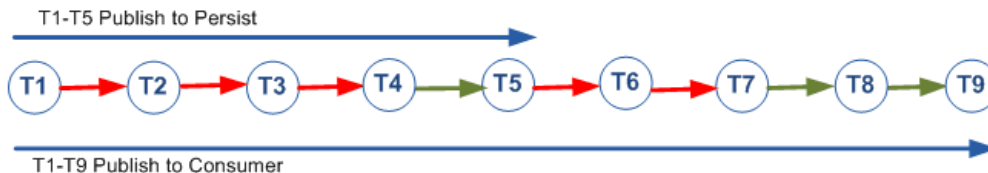
- New application on a new infrastructure platform
- Not UI based; traditional test tool and methodology not appropriate
- ‘Consumer’ applications not developed yet



Green Hat was tool of choice:

- Application:
 - JMS
 - Tibco Business Works (TBW)
 - Oracle Data Vault
 - Oracle Data Guard
- Tibco:
 - Queues
 - Topics
- Data Flow:
 - Publish
 - Consume
 - Messages
 - SQL
- Consumer not developed yet

End to End Transaction Flow

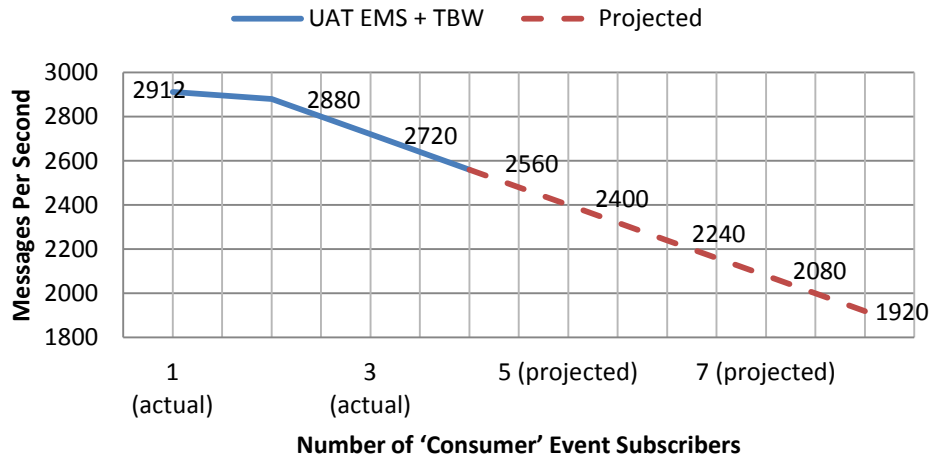


Green Hat Facilitated an Iterative Test Tune



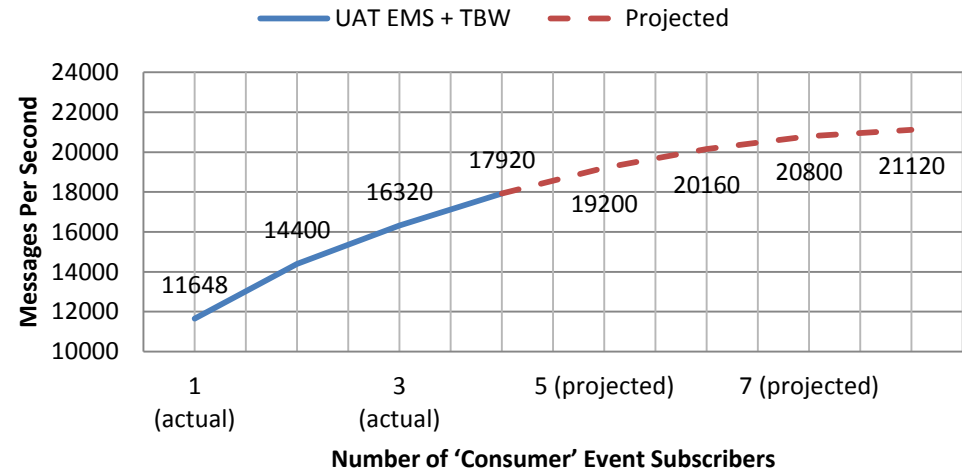
TBW = Tibco BusinessWorks DV = DataVault

Various Configurations Were Tested - Limits Were Found



What if...

That's better...



The Result



Identify and analyse performance bottlenecks; facilitate their removal



Confirm Infrastructure will support anticipated 'launch load' (800 trades per second)



Assess various application/infrastructure configurations



Find the limits of the application's performance

“The StarBase solution means we can anticipate and accurately plan future developments to avoid disruption to the business.”
Global Testing Manager

What Green Hat Gave Us...

- Drive performance tests below the UI
- Interface with JMS/TBW and SQL
- Execute high volume message tests
- Repeatable, configurable tests
- Insightful monitors and analysis tools
- Fast performance defect identification
- Virtualise 'consumer' applications that hadn't been developed yet



www.starbase.co.uk