

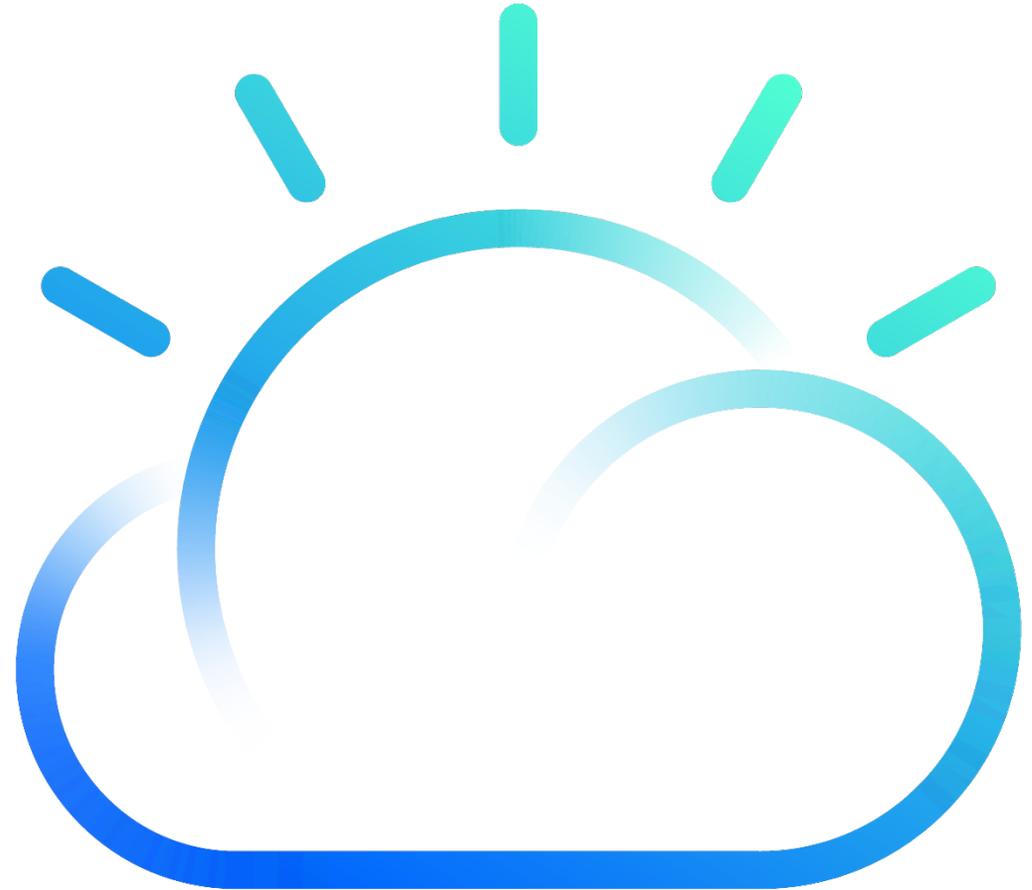
IBM Informix Update

Informix 14.10 #unleashed

Monday August 26, 2019

Updated March 12, 2020

Karen Qualley (karen.qualley@hcl.com)
HCL Informix Product Manager
HCL Software



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Performance is based on measurements and projections using standard IBM benchmarks in a controlled environment. The actual throughput or performance that any user will experience will vary depending upon many factors, including considerations such as the amount of multiprogramming in the user's job stream, the I/O configuration, the storage configuration, and the workload processed. Therefore, no assurance can be given that an individual user will achieve results similar to those stated here.

IBM Informix Release Roadmap



2019

Q1-2020

Q2-2020

2H-2020

2021

- **14.10.xC1, xC2, xC3**
 - InformixHQ
 - 5x Performance Improvement in RSS logging
 - Security Improvements
 - Compression included in Enterprise
 - Dockerized on DockerHub

- 12.10.xC13
- EGM 7.31.xD4
- 4GL 7.51.xC3

Delivered in 2019

- **12.10.xC14** Fixpack
 - Defect Fixes
- **Graph data model** POC

Planned
12.10.xC14 GA – Q1

- **14.10 IBM Informix available for IBM Cloud Pak (ICP)**
- **14.10.xC4** Fixpack
 - Improved backup functionality from secondaries
 - More RFEs...
 - InformixHQ enhancements

- **LinuxONE Platform Support**

Planned
14.10.xC4 GA – Q2

- **14.10.xC5** Fixpack
 - InformixHQ enhancements
 - High Priority RFEs
 - Defect Fixes
- **Last 11.70** PID
 - Cumulative Defect Fixes

Planned
11.70.xC9W2 – Q3
14.10.xC5 GA – Q4

Under Investigation

- ☀ Super Scaleout
- ☀ Multi-model Geodetic Support
- ☀ Machine Learning/Self Healing
- ☀ Unicode Phase 2 – expanding limits for wider rows, bigger page sizes, wider indexes
- ☀ Always On
- ☀ Developers Delight

2021 and beyond

IBM Informix Into the Future

Energize Modernize Innovate

<http://ibm.biz/AnalyticsRoadmaps>

- Single install of language drivers
- InformixHQ admin and machine learning options ongoing
- Backup from RSS or HDR Secondaries using ontape, onunload, onbar, dbexport
- Compress Smart Blobs
- KMIP – External encrypted key mechanism
- BI and Data Visualization via 3rd party tools - Grafana
- More autonomics 7*24*365 uptime
- Unicode Phase 2 – expanding limits for wider rows, bigger page sizes, wider indexes...
- Perf improvements for NUMA
- Asynchronous connections
- Go driver support and others

- Elastic Scaling in the cloud
- Helm charts for easier containerization

- Simplify TimeSeries API
- Enhancements for IoT device support
- Sensors in motion
- Edge-2-Cloud Solution Stack
- Finer grain (microsecond) for Timeseries
- Enhanced BlockChain Integration
- TimeSeries compression on other datatypes

- Defect fixing and backlog reduction
- Collateral
- Developer Ecosystem and Community Engagement
- Competitive analysis
- 3rd party integrations
- SQL Compatibility Enhancements

<http://ibm.biz/IBMAAnalyticsIdeasPortal>

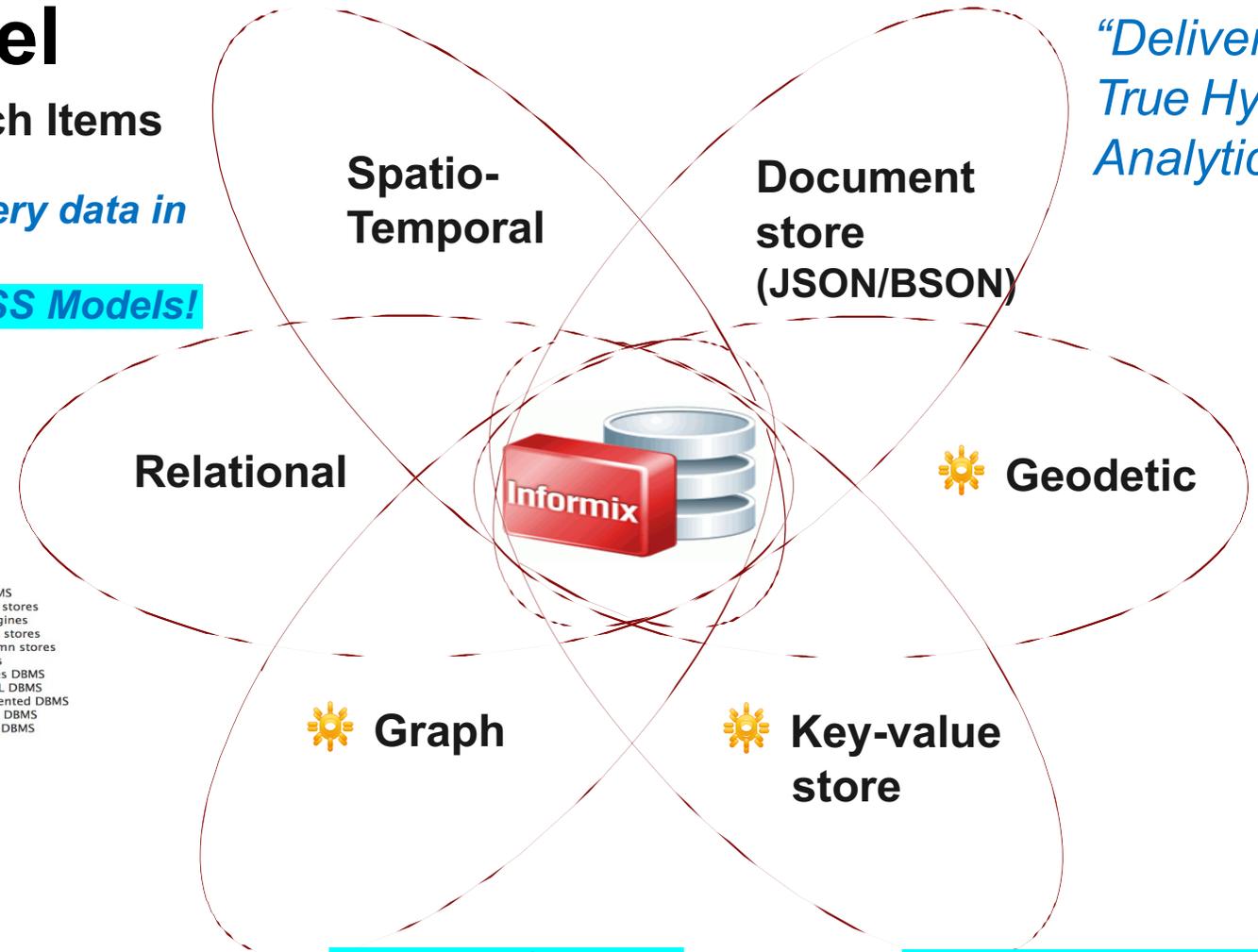
Innovation – Multi-Model

Completed  Innovation Research Items

A Multi-Model database can store, index, and query data in more than one model.

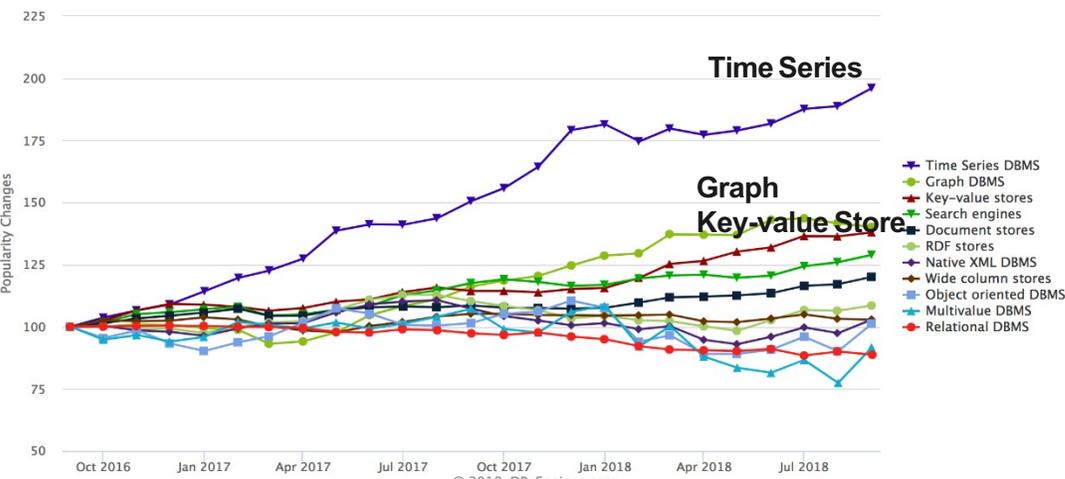
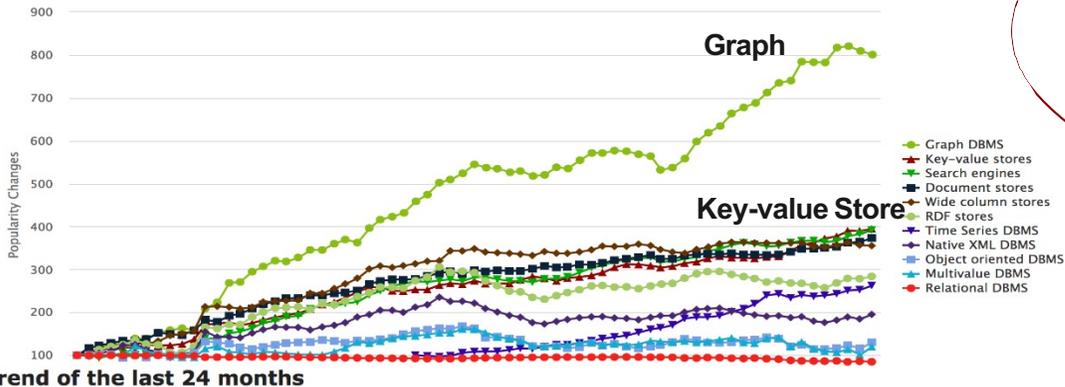
Informix can store, index, and query data ACROSS Models!

“Delivering True Hybrid Analytics”



Model Popularity Trends

Complete trend, starting with January 2013



Retail User Scenario:

Data Stored in:

- JSON - Metadata on products
- Key Value Data Store - Pricing/SKU
- Graph - Reliability of the supplier

You are able to find the description on a specific product, its price, and vendor information all in one query

Smart Grid User Scenario:

Data Stored in:

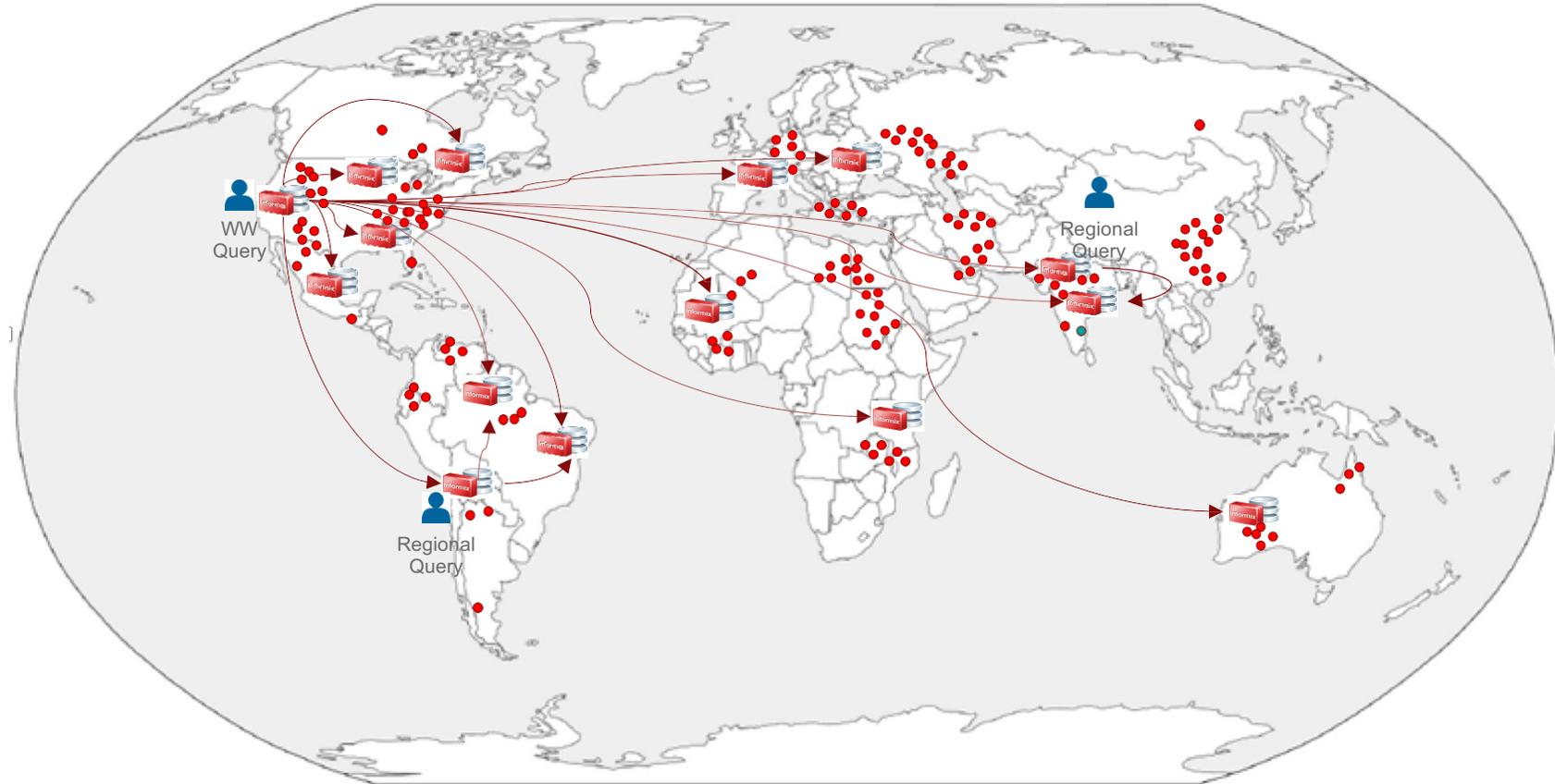
- Graph – Electricity Grid
- Relational - Revenue by Customer

Find how many customers are affected by an outage and the revenue they bring in all in one query

Innovation – Super Scaleout

“Keep data where it originates; access it from anywhere”

- **Ability to Scale out to 1000's of nodes**
 - Nodes can be anything from stores to sensors
 - Commodity hardware
- **Keep the data local**
 - GDPR
 - Faster regional access
- **Queries survive inaccessible nodes**



Phase 2

- Fog Computing – scaling to 100's of 1000's of nodes
- No Downtime for Schema updates and Upgrades with no downtime

Innovation – Machine Learning/Self Healing



Deliver 100% uptime, stability, and peak performance with minimal intervention

- Gather statistics on vital engine stats and actions
- Review statistics for trends
- Anticipate thresholds and take corrective action
 - v Runbooks built into the admin tool
 - v Alert
 - v Health-check

Trending Use Cases:

- Storage
- CPU/Mem usage
- Indexing/update statistics
- User