

IBM Informix 12.1

It's Powerful. It's Simple.
It's Simply Powerful.

Jerry Keesee, Director, Informix Development - IBM

John Miller, Informix Lead Architect - IBM

Chad Gates, Research & Development Manager, Pronto Software



Informix 12.1: *Simply Powerful*

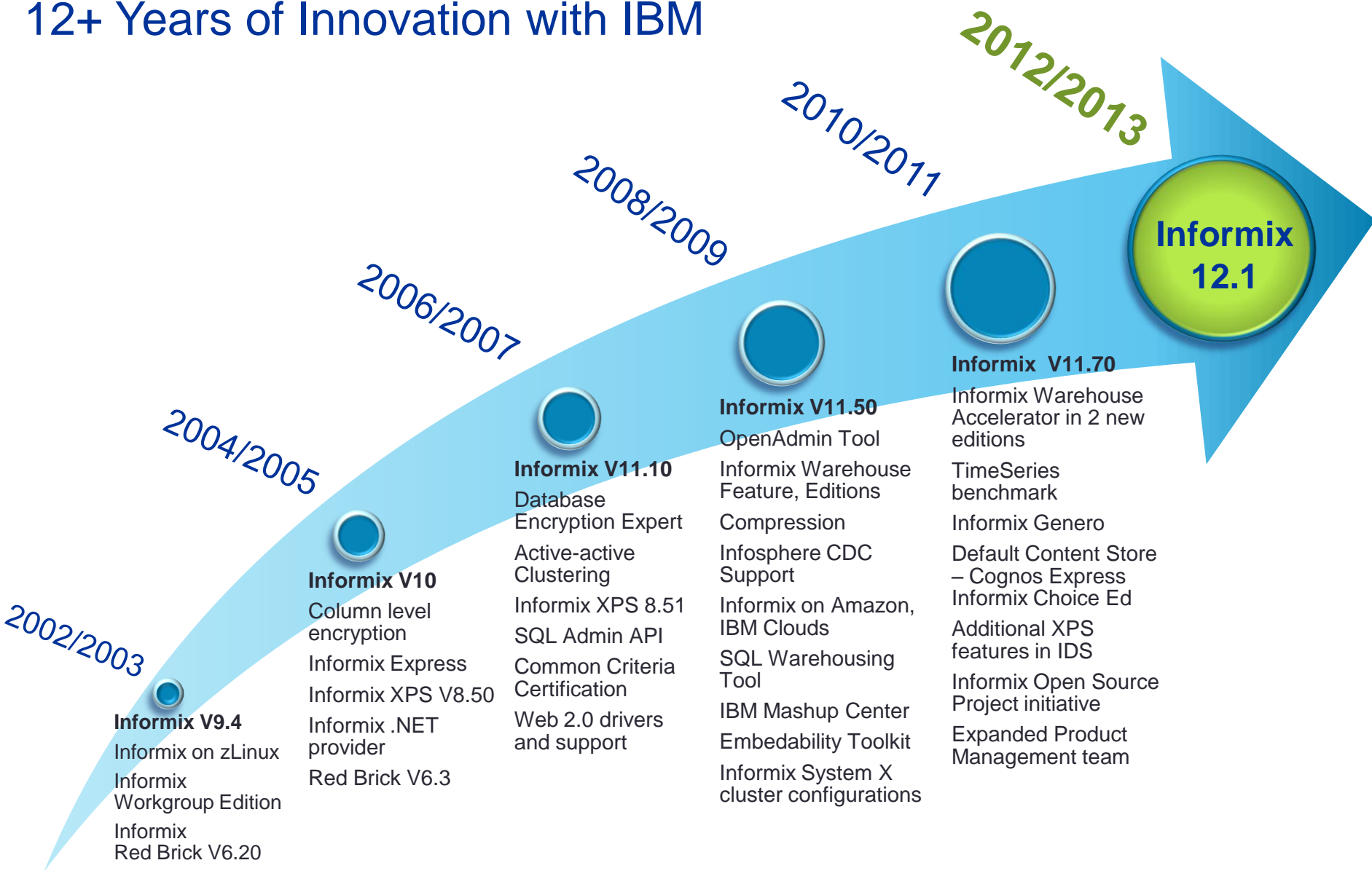
■ Agenda

- Release overview and highlights
- Business Partner Experience with Informix 12.1
- New Value-Added Packaging
- Summary & close
- Q&A

“The real strength of IBM Informix 12.1 is in its ability to maximize the computing power of your hardware. This makes the DBA really confident and secure, even when loads reach critical levels – all while remaining extremely simple to administer.”

***- Eric Vercelletto,
Data Management Architect,
BEGOODEN-IT CONSULTING***

12+ Years of Innovation with IBM



Strong Partner Ecosystem and Growth

Over **190** new partners in 2012, across industries and around the world!



New Enhancements Strengthen Informix Key Differentiators



CLOUD

- Replication and Cluster technology, Hypervisor



Ease of Use and Productivity

- Graphical Administration, Mobile OAT, Genero



Warehouse

- Operational Analytics & IWA (in-memory query acceleration)



Sensor data management

- Big Data and adoption of TimeSeries



Autonomics/EMBED

- Embeddability, SQL / OLAP Compatibility

Sensor Data Brings New Applications Across Industries

Utilities

- Weather impact analysis on power generation
 - Transmission monitoring
 - Smart grid management

Manufacturing

- Asset location and performance
- Event management and response



Military and Law Enforcement

- Real-time surveillance and movement detection
 - Situational awareness
 - Cyber security detection

Financial Services

- Fraud detection based on biometrics
 - Risk management

Health & Life Sciences

- Remote healthcare monitoring
- Epidemic early warning system
 - ICU monitoring

Logistics & Transportation

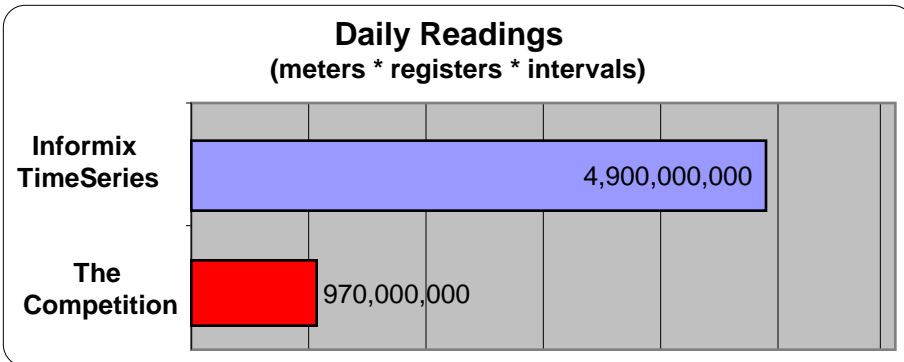
- Fleet management and dispatch
- Weather and traffic impact on logistics and fuel consumption

Informix 12.1: Simply Powerful

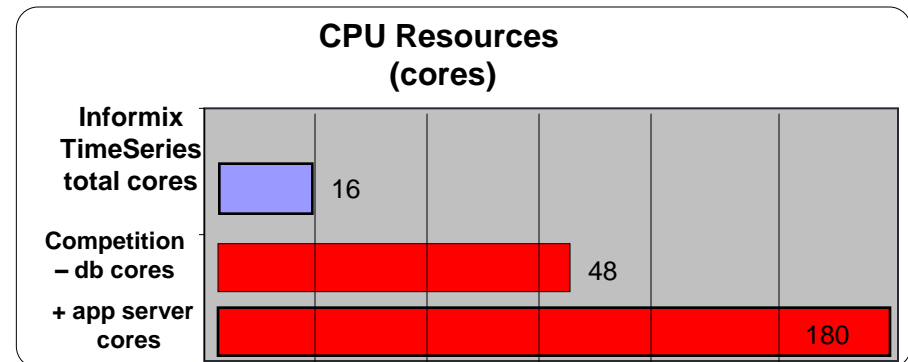
to solve the Big Data Challenge of Sensor Data

Unprecedented performance and scalability for managing time series data

5 times the performance



< 1/5 the resources



... with significantly simpler management using a single node system

NEW! Able to replicate time series data across multiple servers in a clustered grid

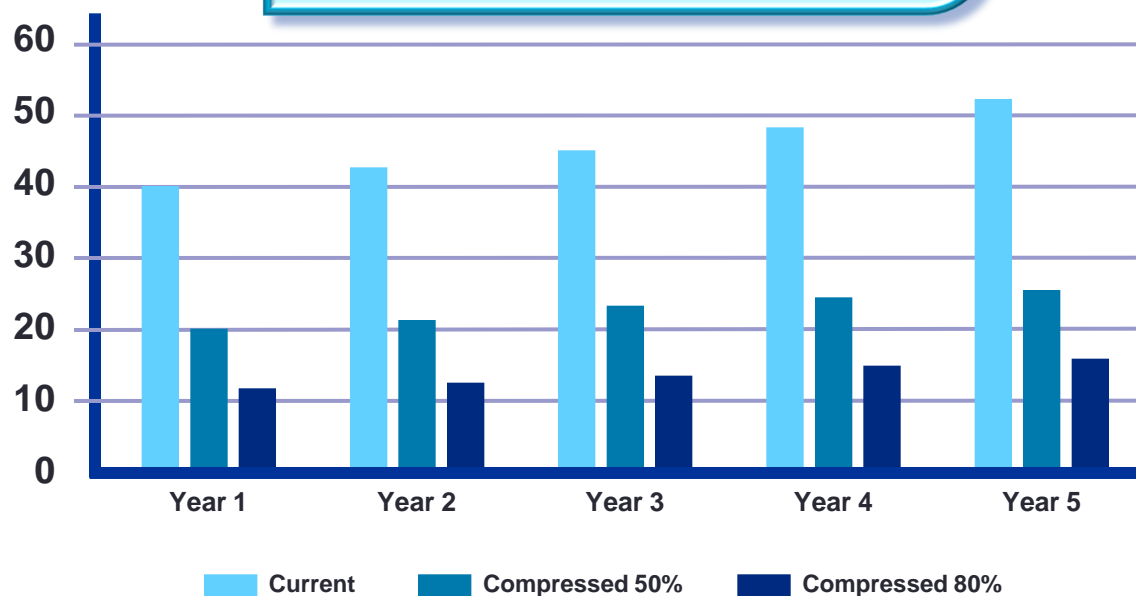
NEW! Support for data retention rules and enhanced storage optimization with ability to automatically remove data outside of defined window of time

Informix 12.1: Simply Powerful

Enhances Performance for all Workloads

Data Compression Storage Savings

- 20 TB at 50% compression
- 28 TB at 80% compression



Comprehensive compression reduces storage and increases performance

- Higher performance means fewer servers – and less space, power, cooling

Informix 12.1: Simply Powerful

Enhances Performance for all Workloads

- **NEW!** Index Compression
 - Scans require less I/O
 - More data fits into buffer cache
 - Compression only for leaf index nodes
 - Dictionary-based compression (same as table compression) to favor key only scans found in most OLTP applications

“The new index compression feature of Informix 12.1 delivers a consistent compression rate of 70% which lets us optimize storage and enables almost 15% increased performance.”

*-Vicente Salvadore,
Development & Business Manager,
Deister*



- **NEW!** Blob Compression
 - Individual columns can be compressed
 - Uses the same dictionary-based compression as table and index compression

Informix 12.1: Simply Powerful

Enhances Performance for all Workloads

- **NEW!** Automatic Table Compression
 - Compress data partitions
 - Compress data rows as they are loaded
 - When a load exceeds a threshold, compression process starts
- Automatic Compressing using OpenAdmin Tool (OAT)

Create Table Wizard, Step 3 of 6

Lock Mode

Page

Row

Auto Update Statistics Options

Specify the minimum change threshold:

Use the system setting

Set the threshold %

Table Options

Row version columns (VERCOLS)


Conflict resolution columns for ER (CRCOLS)

Consistency checking columns for ER (REPLCHECK)

Primary key columns for ER (ERKEY)

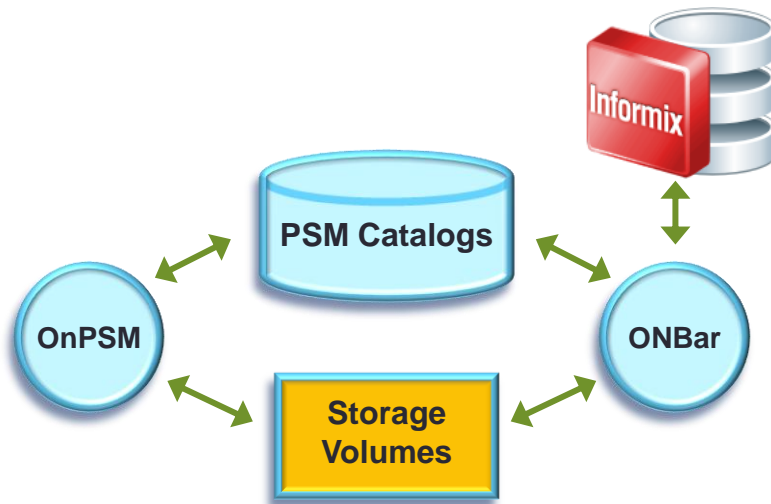
Selective row-level auditing (AUDSEL)

Automatic compression (COMPRESSED)



Informix 12.1: Simply Powerful

Faster, easier Primary Storage Manager



	ISM	PSM
Number of program files	46	2
Size of programs shipped	25MB	2MB
Number of daemon programs	9	0
Startup steps	40	2
Max number parallel streams	4	Unlimited
Max transfer buffer size	64k	2GB
Integrated with db scheduler	No	Yes

- Easy to integrate with OnBar to perform backups and restores
- Easy for embedded solutions to perform parallel backups and restores
- Easy for Ontape customers to migrate to OnBar

4X Faster
Benchmark results

Informix 12.1: Simply Powerful

Enhances Performance for All Workloads

- **NEW!** Much faster operational analytics and enhanced OLAP capabilities
 - **NEW!** Enhanced integration with Cognos for much faster Cognos BI

“The performance and reliability of Informix 12.1 gives our ERP software the ability to simultaneously meet the demands of OLTP and OLAP workloads in mission critical environments.”

- Chad Gates, Development Manager, Pronto Software

PRONTO
SOFTWARE

Award-winning Australian ERP vendor with global reach

- 320 Staff
- 1500 Customers
- 27 Countries



Informix 12.1 EVP Experience: Pronto Software

3. Intelligence

You can also select individual intelligence modules to reveal issues and opportunities within your business.



Report



Monitor



Analyse

BI Essentials	Alert Intelligence	BI Manager	Analy Dimen
Data Intelligence	Task Intelligence	BI Designer	Analy Dashb
BI Administration		BI Schema Manager	

2. Competencies

You can easily select individual modules from our



Foundation



Financials



Distribution



Sales & Marketing



Supply Manage

Runtime	Accounts Receivable	Sales Orders	CRM	Distrib Require
TrueForm	Accounts Payable	Inventory Management	Point-of-Sale	Radio Fre
Screen Customiser	Fixed Assets	Purchase Orders	eCommerce	Scann
Enterprise Client	General Ledger		Repairs Management	Advar Forec
	Payroll			Wareh Manage
				Easy
				Catal

Pronto Expertise

Business Process Customization

PRONTO-Xi Applications

PRONTO-Xi Infrastructure

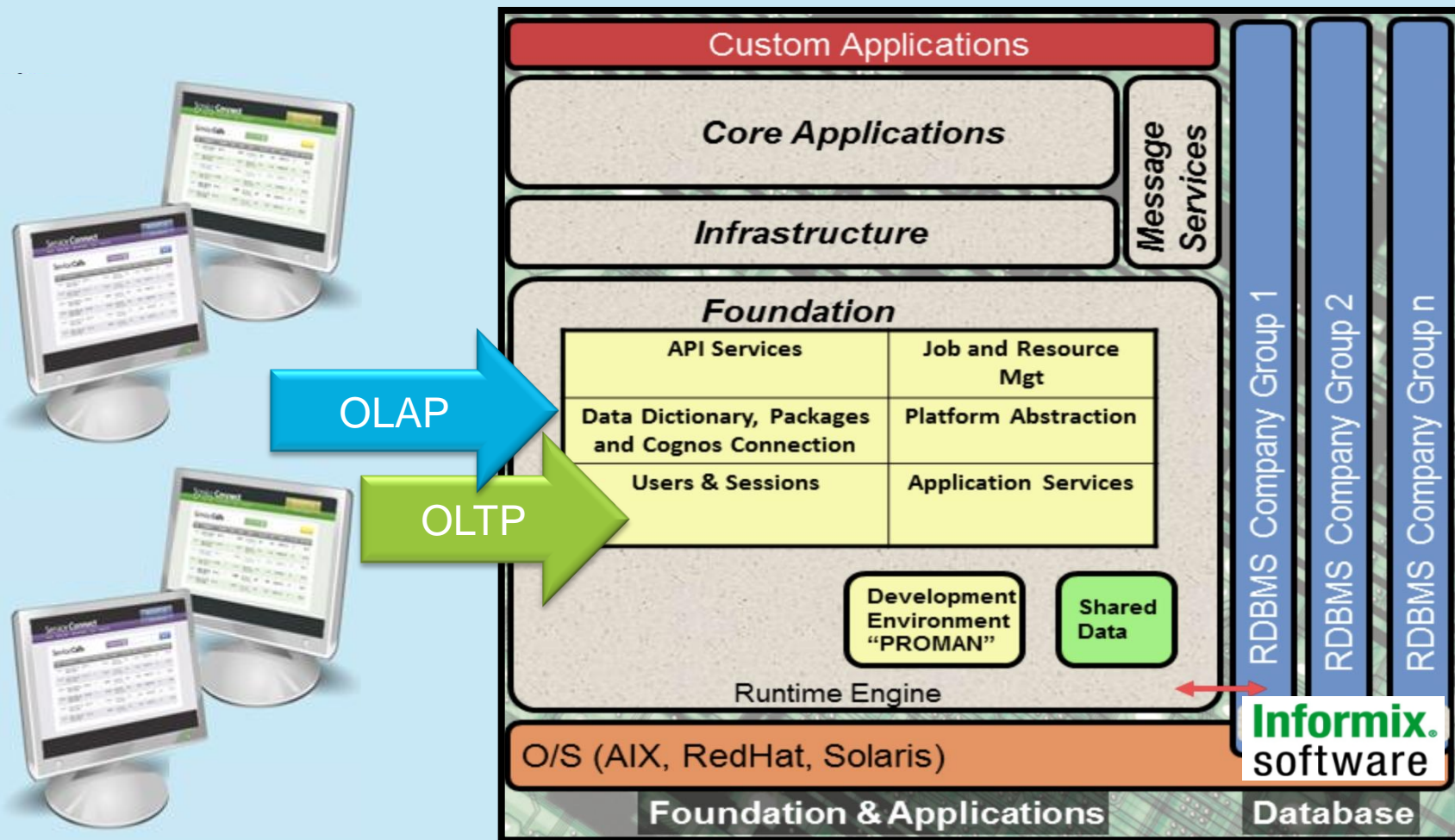
IBM Technology

IBM Cognos 10

IBM Informix Software

IBM Power Systems IBM System x

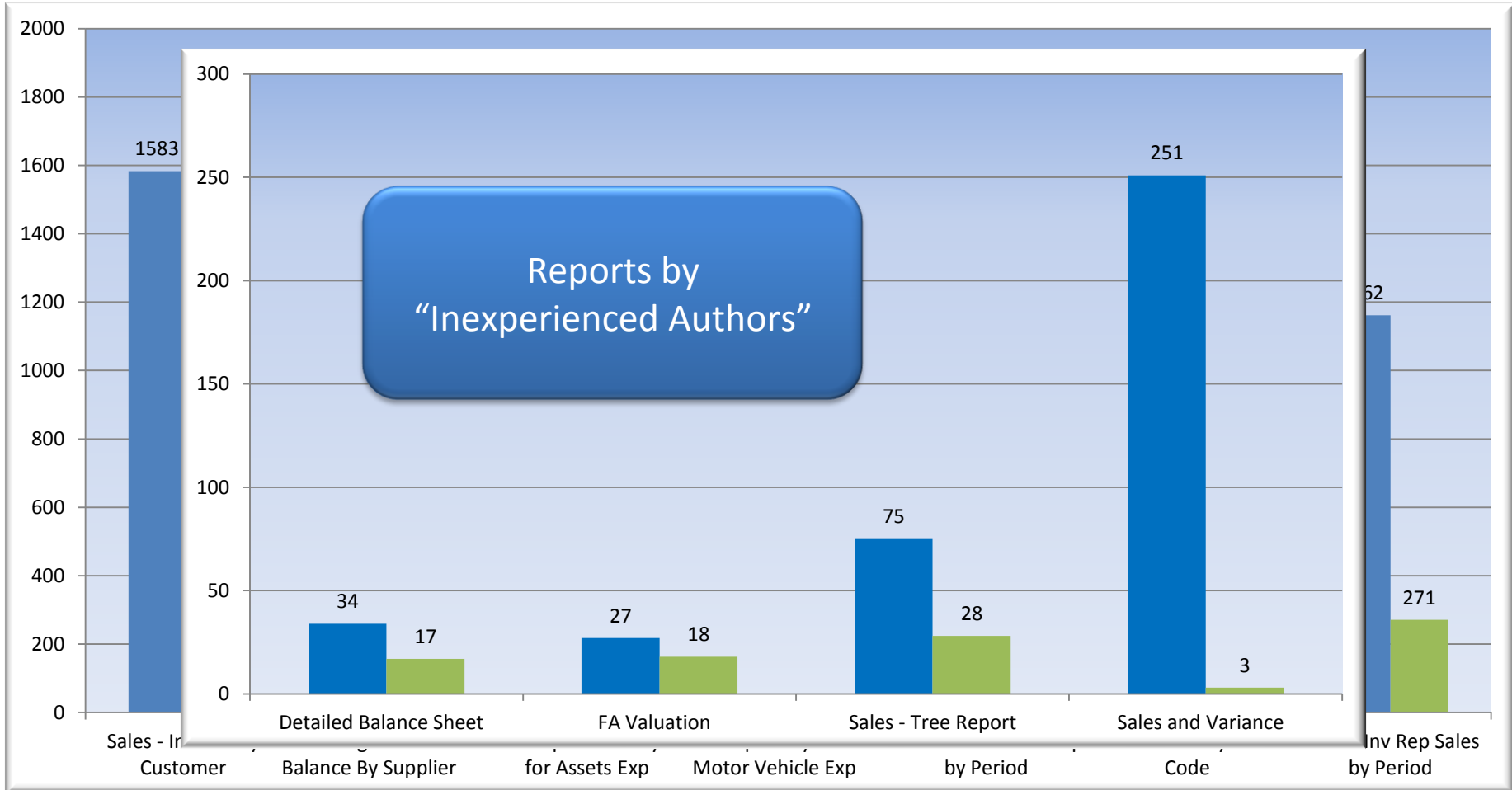
Pronto Xi Architectural Challenge



Performance Challenge

OLAP Performance

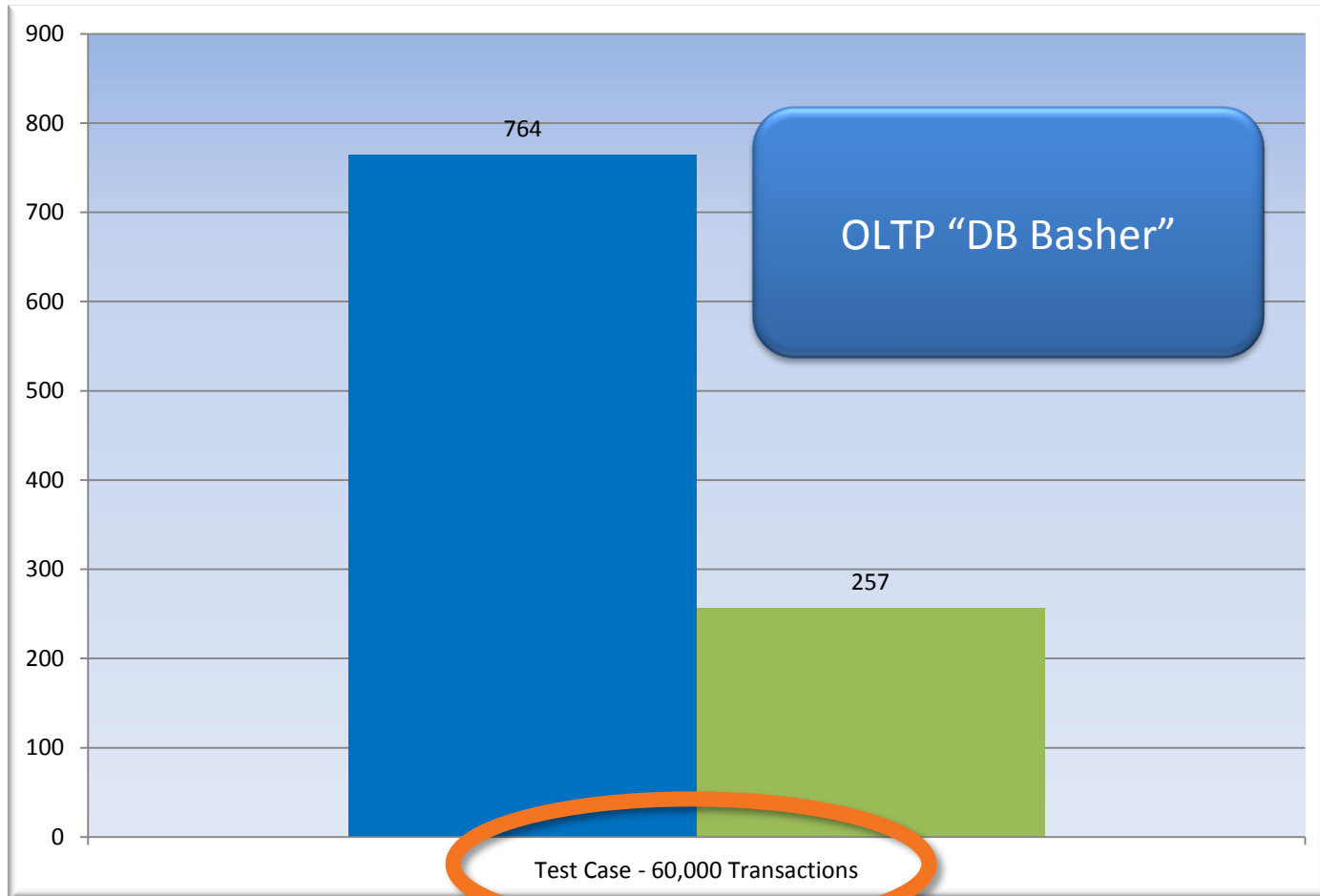
Key - 11.x 12.1



Performance Challenge

OLTP Performance

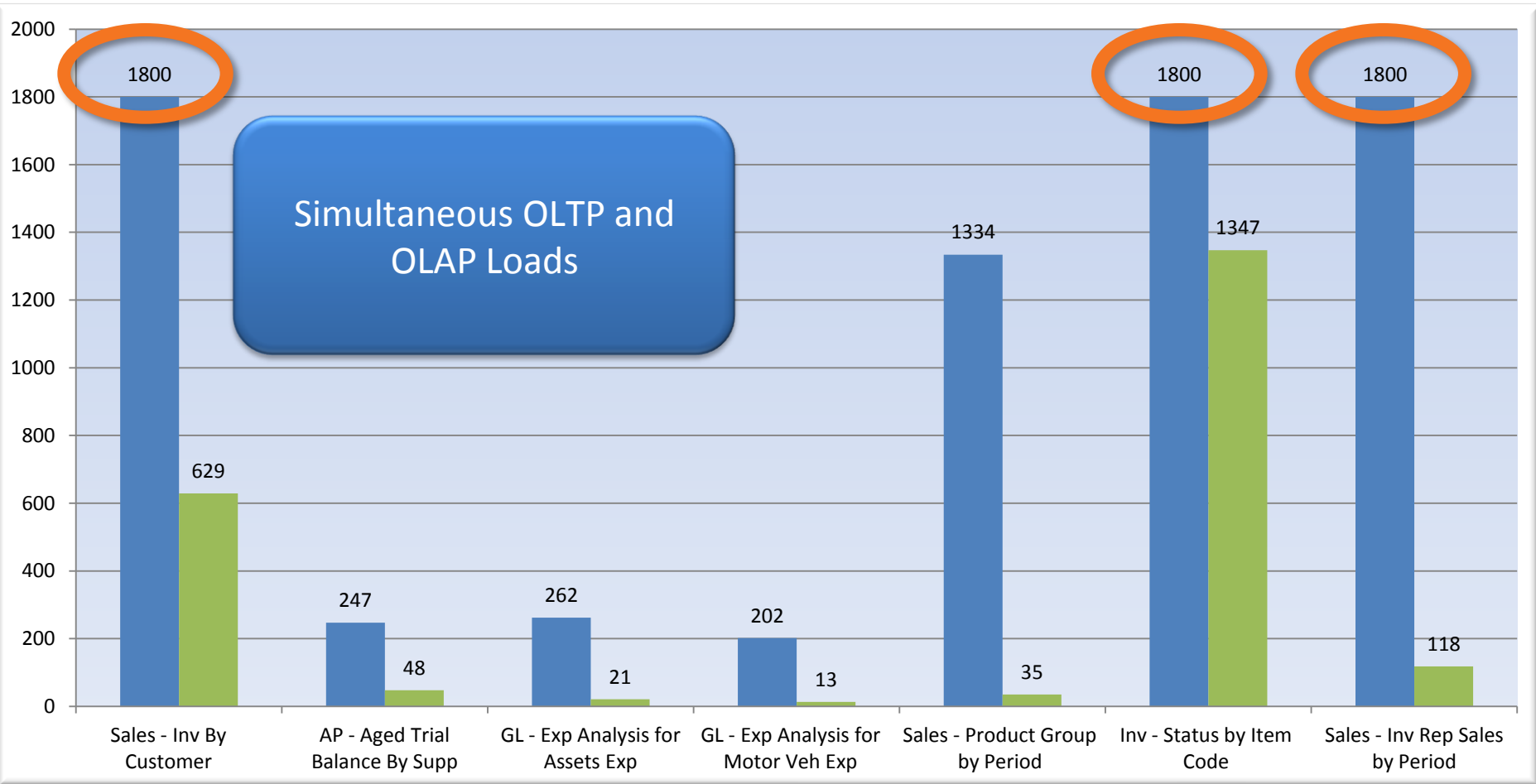
Key - 11.x 12.1



Performance Challenge

Combined Performance

Key - 11.x 12.1



Outcome of the Early Validation Program

PRONTO
SOFTWARE



Chad Gates

Development Manager
Pronto Software

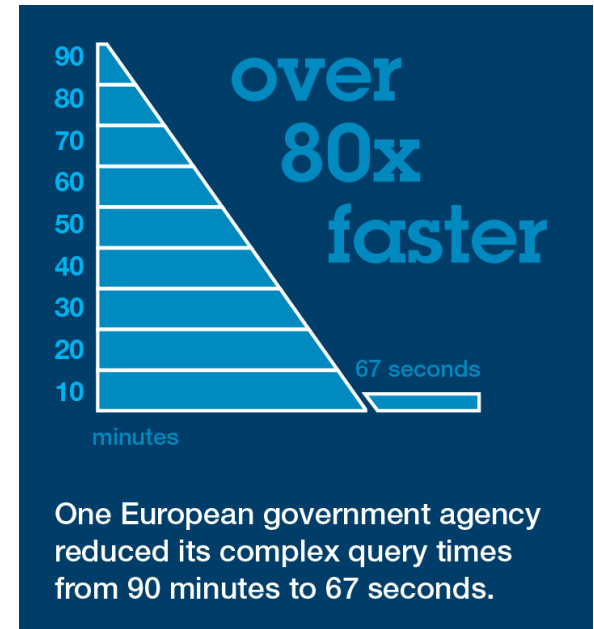
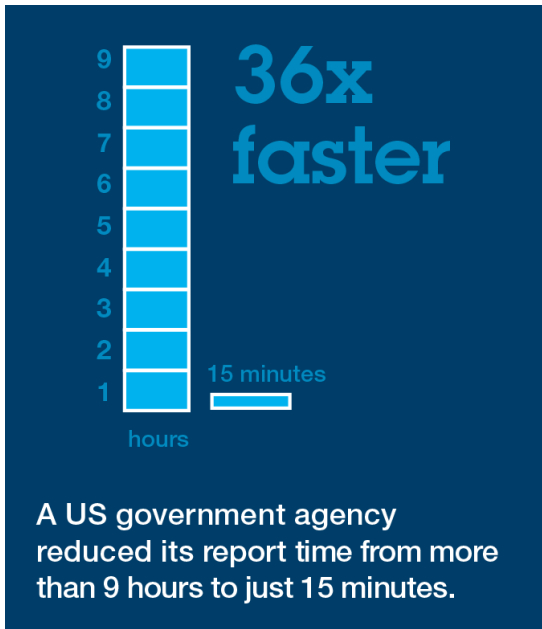
Find your moment: pronto.net

"Informix 12.1 represents IBM's ongoing investment, visionary thinking, and commitment to product quality that affirms our confidence to ship Informix as the solid foundation of our award-winning ERP software.."

~ David Jackman, Managing Director, Pronto Software

Informix 12.1: Simply Powerful

Enhances Performance for Operational Analytics



Informix Warehouse Accelerator gaining worldwide traction to accelerate warehouse queries up to 100+ times

“For hybrid environments, Informix has a number of unique capabilities that cannot be matched by either conventional data warehousing vendors or traditional data warehouses.”

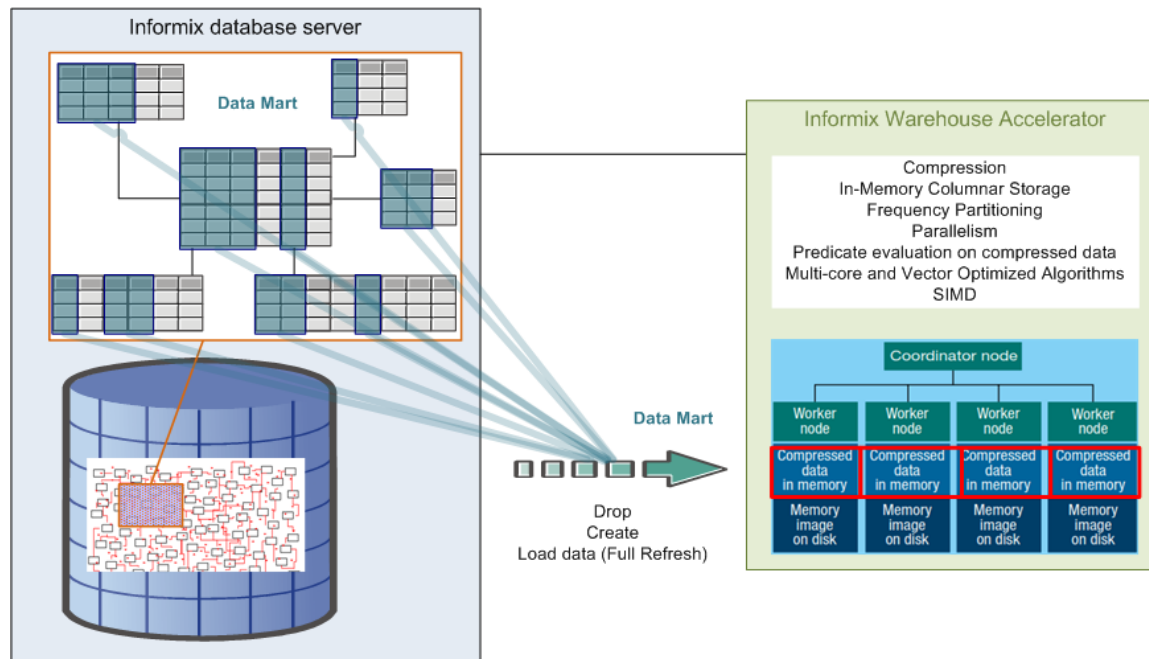
- Philip Howard, Bloor Research

Informix 12.1: Simply Powerful

Enhances Performance for Operational Analytics

- **NEW! Trickle Feed**

- Automated, continuous updates of changed data from Informix Warehouse into IWA for speed-of-thought analysis of real-time data

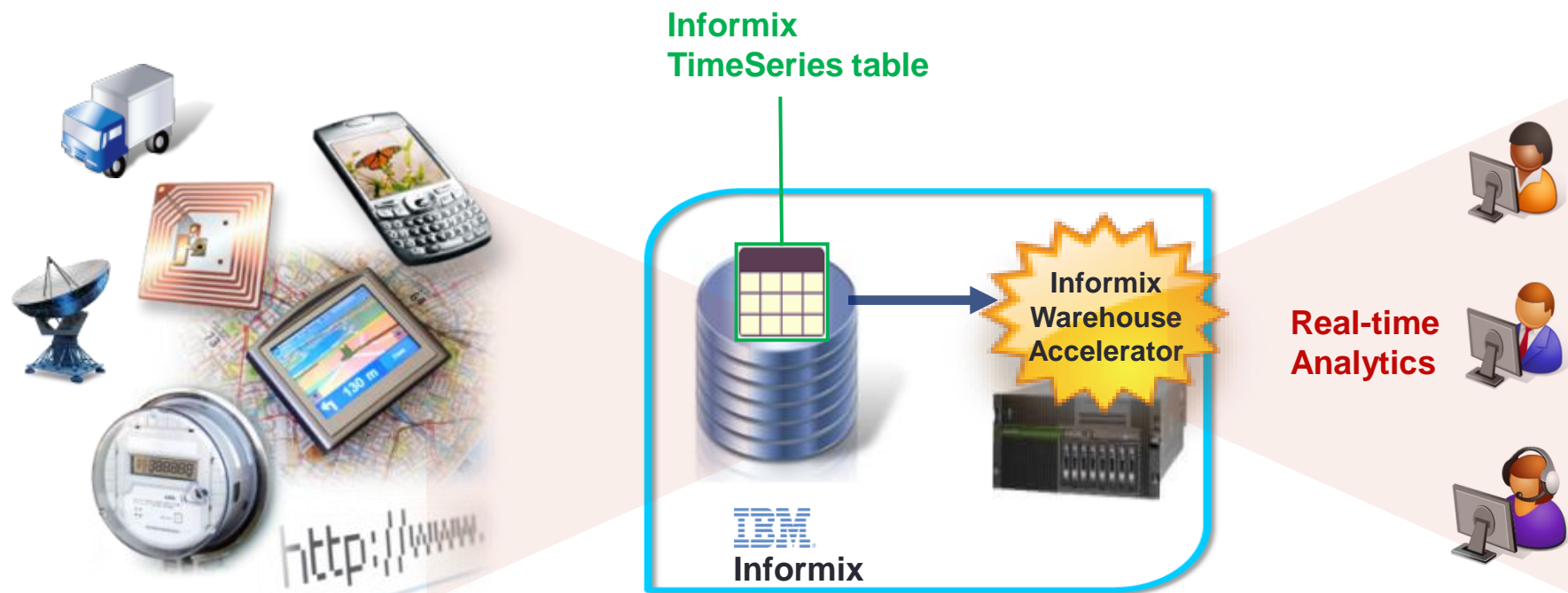


- **NEW! Automated Partition Refresh**
- **NEW! Integrated Administration through OAT**

Informix 12.1: Simply Powerful

Enhances Performance for Operational Analytics

- **NEW!** Informix TimeSeries + Informix Warehouse Accelerator provide real-time analytics of stored sensor data

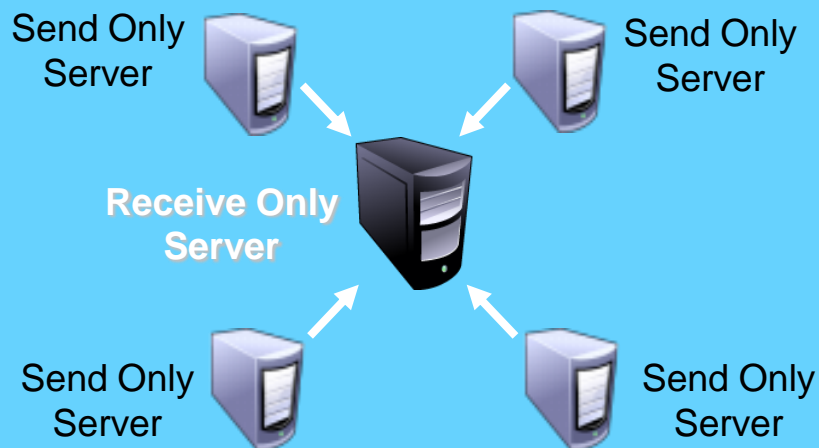


**Up to 1000X Faster
than TimeSeries alone**

Informix 12.1: Simply Powerful

Reduces cost and risk of distributed deployments; great for private cloud!

- Only database that can be utilized and provisioned on heterogeneous, commodity hardware, different O/S, and different database versions
 - Scale capacity on-demand when and where needed
- “Always-on” data availability
- **NEW!** Ability to configure servers to only send or receive data



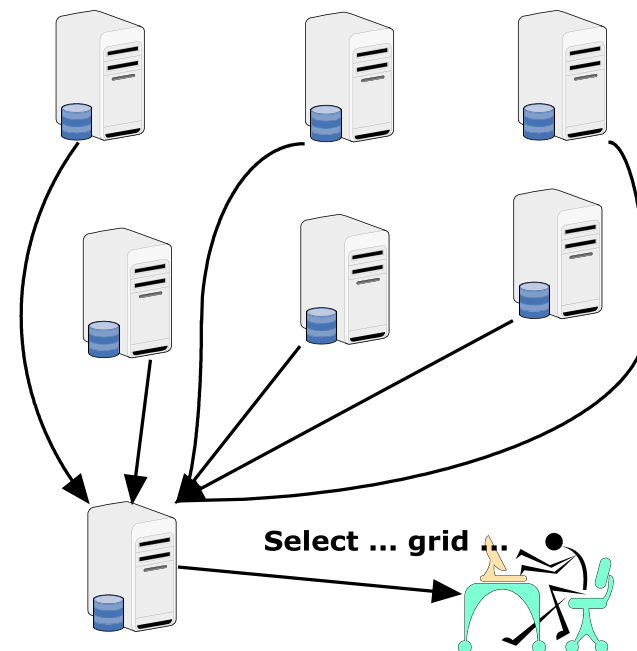
- Only send changes
- Can be configured in a single replicate
- Simplifies data consolidation on central server
- Reduces storage requirements

Informix 12.1: Simply Powerful

Reduces cost and risk of distributed deployments; great for private cloud!

- **NEW!** Improves performance, scalability, and ease of administration for data intensive applications thanks to query sharding

- Faster and easier execution of queries over distributed nodes. Servers are abstracted from the application and can be added or removed dynamically



- **NEW!** Replication among servers owned by different users – simplifies administration

- You can now replicate data among database servers that

- Have private server installations
- Do not require an Informix user account

- **NEW!** Replication does not require primary key – can use unique index

Informix 12.1: Simply Powerful

Brings Key Informix Strengths to IBM PureSystems

- **Built-in expertise** to address complex business and operational tasks automatically
- **Integration by design** to tune data infrastructure for optimal performance and efficiency
- **Simplified experience** for the enterprise ecosystem

NEW!

IBM Informix Hypervisor

Expert at: optimally deploying and running Informix database servers for rapid time-to-value

- **Designed for the private cloud with flexibility and simplicity**
Leverages Informix clustering and Flexible Grid technology
- **Enabled and optimized for PureApplication System**
- **Simplified management with a single console**
- **Delivers both Hypervisor Image and System Pattern**

PureApplication



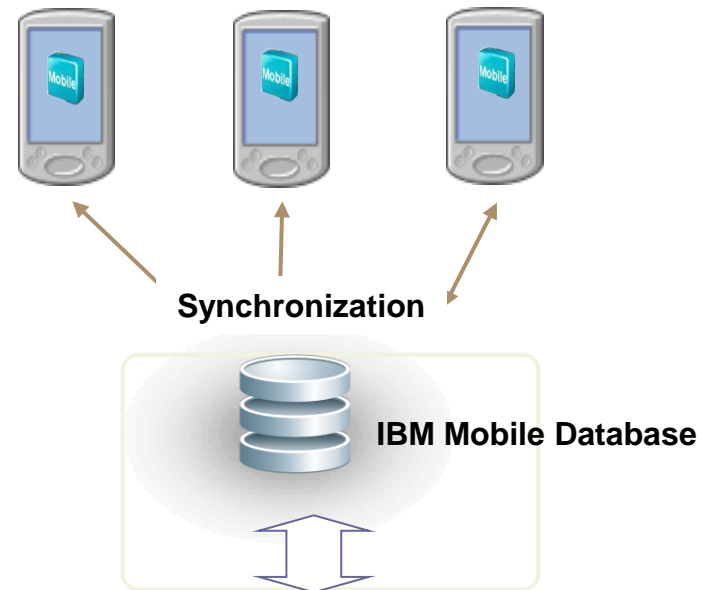
Application Platform

*Delivering Cloud Application
Platform Services*

Informix 12.1: Simply Powerful

Easy to go mobile

- Informix Genero accelerates new generation of mobile and cloud-based applications
 - Compile once to deploy in browser-based, GUI, Windows, mobile and cloud environments
- **NEW!** Out-of-the-box integration with **IBM Mobile Database**
 - Persistent storage on mobile devices
 - Secure enterprise data on mobile devices
 - Seamless integration and synchronization with back-end Informix environments
 - Data available at all times
 - Easy installation with automatic updates
 - Modern development tools



Replication with back-end Informix database



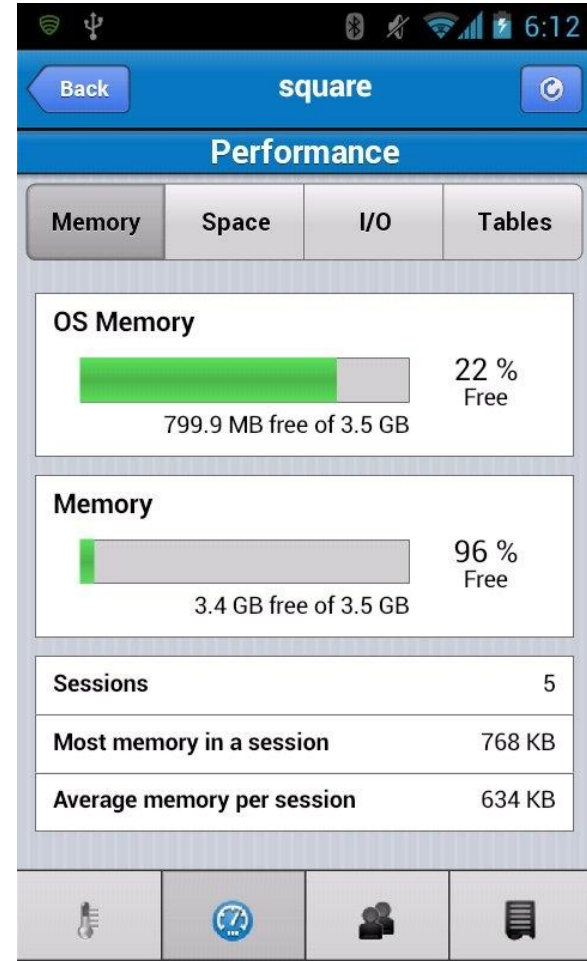
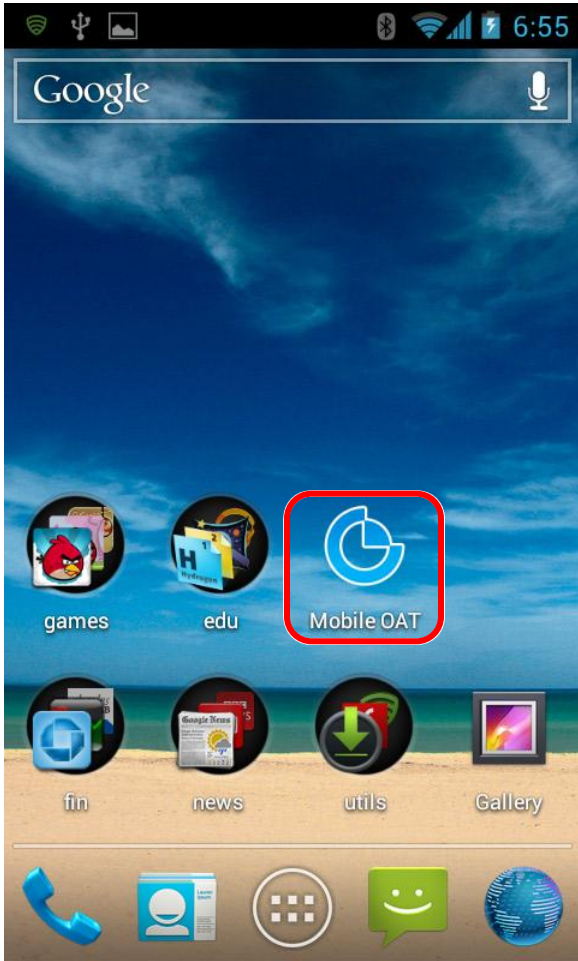
“The new and exciting features of Informix 12.1 let us quickly design the mobile solutions our customers need.”

- Miguel Carbone, CEO, MC Software

Informix 12.1: Simply Powerful

Easy to go mobile

NEW! Mobile OpenAdmin Tool



Informix 12.1: *Simply* Powerful

Easy to use with enhanced out-of-box welcome experience




NEW!

Home


- Health Center
 - Alerts
 - Dashboard
- Logs
 - Admin Command
 - Online Messages
 - ON-Bar Activity
- Task Scheduler
 - Scheduler
 - Task Details
 - Task Runtimes
- Space Administration
 - Storage
 - Recovery Logs
 - Backup
- Server Administration
 - Configuration
 - System Validation
 - User Privileges
 - Virtual Processors
 - Auto Update Statistics
 - Trusted Context
 - Memory Manager
 - Warehouse
- Replication
- Performance Analysis
 - SQL Explorer
 - Performance History
 - System Reports
 - Session Explorer
 - onstat Utility
- SQL ToolBox
- Help
- Admin
- Logout

Set Home Page




Select the OAT Home page.

-  **Welcome**
This page.
-  **Health Center > Dashboard > Default**
View key status and performance information for the current database server.
-  **Health Center > Dashboard > Group Summary**
View the status and key information for all the servers in the current OAT group.





Learn More

-  [OAT overview](#)



Common Tasks

-  [Monitoring database server activity](#)
-  [Monitoring performance](#)
-  [Administering the database server](#)

Community





-  [OpenAdmin Tool Forum](#)
Hosted by the International Informix Users Group (IIUG)
-  [Informix Forum](#)
Hosted by IIUG
-  [IBM developerWorks: IBM Informix](#)
Technical information about Informix for developers and IT professionals
-  [OpenAdminToolChannel](#)
Videos of key OAT features on YouTube

Information

-  [OAT Help](#)
-  [OAT in the IBM Informix 11.70 Information Center](#)

Customize OAT

Go to the Admin menu to customize OAT. A password might be required to access the Admin menu.

-  **Manage Connections**
Add database servers to the default OAT group. Add and edit OAT groups.
-  **Plug-in Manager**
Install, enable, or disable plug-ins for OAT.
-  **Menu Manager**
Reorder the OAT menu. Remove or restore menu items.
-  **Dashboard Manager**
Change the status information that is displayed for a database server.

Informix 12.1: **Simply** Powerful

Easy to embed, easy to deploy, easy to rest at night

The Smart Choice for ISVs and OEMs

- Small footprint, silent install
- Up and running in minutes; zero administration
- Automatically sense and respond to changes without intervention
 - *Self Configuring* – **New!** Start server without having to define environment (dynamic onconfig)
 - *Self Healing* – **New!** Table purge by time and/or size
 - *Self Optimizing* – **New!** Automatic compression
- Deliver innovative virtualization and cloud computing solutions

“It’s very, very important to us that what we have is of high quality, what we have has the power behind it to make sure that it has both the longevity and the support that we need. Cisco is taking advantage of the fact that Informix is easily embeddable, and also, the redundant capabilities allow us to use our distributed architecture to scale for our customers.”

- Phil Harris, Senior Director of Engineering,



Informix 12.1 Delivers Greater Value to Clients and Partners

Departmental Market



Advanced Workgroup Edition

- The ultimate in data warehouse performance for departmental, SMB/MM deployments
- Informix Warehouse Accelerator included
- Limited by cores
- Includes access to Cognos BI, Mobile Database, Mobile Database Sync

Workgroup Edition

- Mid-level offering
- Single server requirements with less intense workloads for both OLTP and analytics
- Core and memory limits
- Includes access to Mobile Database, Mobile Database Sync

Enterprise Market

Advanced Enterprise Edition

- The ultimate in data warehouse performance, scalability, and operational analytics
- All server features and Informix Warehouse Accelerator included
- No memory, socket or core limits
- Includes access to Cognos BI, SPSS Modeler, SPSS Statistics, Mobile Database, Mobile DBSync



Enterprise Edition

- Full enterprise class OLTP
- Optional compression features
- No memory, socket or core limits
- Includes access to Mobile Database, Mobile DBSync

Express Edition and Innovator-C

Developer Edition

2013 IIUG INFORMIX CONFERENCE

THE LARGEST INFORMIX GATHERING IN THE WORLD

SAN DIEGO, CA • APRIL 21 - 25

2013 IIUG Informix Conference

April 21 – 25, 2013

San Diego Marriott Mission Valley - San Diego, California, USA



The International Informix Users Group (IIUG) announces the IIUG 2013 Informix Conference,

to be held at the [San Diego Marriott Mission Valley](#) on April 21 - 25, 2013.

[Register now!](#)

IIUG members save an additional \$100 off registration thru April 18, 2013 so [join IIUG](#) and then register!

All >>paid<< attendees receive Thursday tutorials included!

For more details and a tentative list of sessions and speakers, visit the official conference web site [www.iiug2013.org](#)

Informix 12.1: Simply Powerful



Thank you