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SQL ANYWHERE 12 BRIEFING
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INDUSTRY MOMENTUM

• More than 10M applications deployed by ISVs and organizations embedding SQL Anywhere
• Powers many of the world’s largest mobile applications including; 2010 US Census, Pepsi Bottling Group, BNSF, Japan Post Office, China Customs and more
• Embedded in applications by marquee customers including; Intuit, Cisco, FedEx, Ericsson, Symantec and more
• 1st database vendor to deliver...
  – 1st mobile DB, 1st DB for handhelds, 1st mobile sync, 1st DB & sync for BlackBerry, 1st DB & sync on iPhone, 1st mobile DB & sync with spatial support
SQL ANYWHERE – COMMON USE CASES

Data Center
- Departmental
- Small/Medium Business
- Desktop

Office
- Individual
- Mobile & Remote
SQL ANYWHERE OVERVIEW

Leading data management & enterprise synchronization solution for applications that operate outside the traditional data center

• Self-managing, embeddable technologies that are easy to use and administer remotely
• Databases delivering enterprise-caliber features and high performance out of the box
• Proven, robust, heterogeneous synchronization solutions designed for occasionally-connected environments
• Broad support for development tools, platforms and industry standards
INTRODUCING SQL ANYWHERE 12

- Under the tenets of self-management and embeddability, SQL Anywhere 12 provides major new features in the areas of:

  - Performance & Scalability
  - Data Distribution
  - Data Specialization
PERFORMANCE AND SCALABILITY

Highlights

• Server scale-out
  – Supports hierarchy of read-only mirrors/copy nodes
  – Useful when trying to better handle increasing read/reporting loads on database server
  – Provides automatic load balancing

• Server thread auto-tuning
  – Dynamically responds and adapts to changing workload conditions
  – Server attempts to maximize throughput at all times
  – Automatic recovery from thread deadlock errors (where possible)

• Self-healing statistics
  – Statistics governor automatically evaluates health and usefulness of each statistic in database
  – Performs required maintenance so that the statistics are self-monitored and self-healing
  – Statistics maintenance performed in background; minimizes load on database server
SERVER SCALE-OUT

- SQL Anywhere now supports a *hierarchy* of mirrors/copies

```
Root Node
```

```
Optional HA mirror server
```

```
Copy Nodes
```

8 – July 8, 2010
DATA DISTRIBUTION

Highlights

• Central administration of remote databases
  – Deploy databases and database definitions to users
  – Monitor the state of all remote databases
  – Control when remote databases synchronize
  – Upgrade remote databases and troubleshoot problems

• Performance scalability testing tools
  – Aids in capacity planning for synchronization systems
  – Better estimate correct hardware, optimal setup of server, throughput goals
  – Tools provide simulated environment – large number of clients, realistic data
  – Record and replay capabilities

• iPhone support
  – Rounds out support for leading smartphone platforms (iPhone, Blackberry, Windows Mobile)
DATA SPECIALIZATION

Highlights

• Spatial support
  – Data management AND synchronization
  – Indexing of spatial objects
  – Enables tracking and location aware querying
  – Support for OGC and SQLMM standards for spatial data types and APIs
  – Native import for shape files and built in functions to export to KML, GML and SVG formats

• Enhanced ORM support
  – Better optimization of ORM generated queries
  – Hibernate dialect for SQL Anywhere

• Full-text search extensions
  – Allows support for external document formats, such as PDF or Word
DBISQL SPATIAL VIEWER

SQL

```
select * from us_state where name not in ('Virgin Islands of the United States', 'Guam', 'Hawaii', 'American Samoa',
'Commonwealth of the Northern Mariana Islands', 'Puerto Rico', 'Alaska');
```

Results

Columns: geometry  Projection: EquiRectangular

Map of the United States.