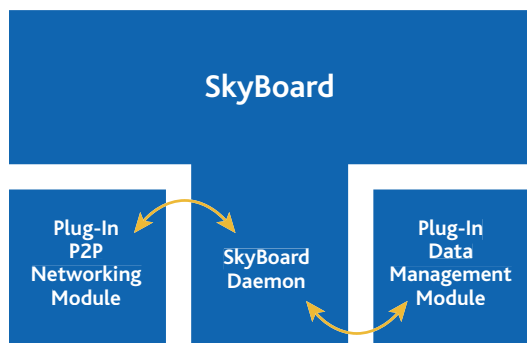# 4TEC

SkyBoard Real-Time Information Management

- **SkyBoard is an integrated software-infrastructure solution for distributed real-time information management.**

- **SkyBoard enables applications, services, and devices that are connected to the network to capture, store and access massive amounts of distributed information in real-time, while guaranteeing continuous systems' availability.**

SkyBoard

| Plug-In P2P Networking Module | SkyBoard Daemon | Plug-In Data Management Module |

SkyBoard is a unique software infrastructure consisting of plug-in peer-to-peer communication and in-memory database components.

The groundbreaking architecture of SkyBoard integrates peer-to-peer networking and real-time, in memory data management systems with zero administration into a complete solution that manages storage, retrieval, and distribution of fast changing data in dynamically configuring network environments. It guarantees continuous availability in real-time of all information that is critical to the enterprise.

The unique architecture of SkyBoard is complemented by support of the leading industry standards for application programming interfaces, data modeling, data manipulation, and system management. The entirely familiar interfaces nearly eliminate learning curves and guarantee quick time-to-market. In addition, the use of standards greatly simplifies the integration of SkyBoard with existing infrastructure solutions.

Applications that benefit from SkyBoard are equally found in defense, aerospace, global communications and networking, traffic and logistics, financial services, and process control.

SkyBoard's Unique Combination of Features

Real-time Performance

The software infrastructure delivers tens to hundreds of thousands of transactions per second across the network. This is at least a factor of ten faster than current disk-based database management systems.

Massive Scalability

The plug-in architecture enables solutions that scale across SMP systems as well as networks. Going well beyond current disk-based DBMSs, SkyBoard supports networks connecting hundreds to thousands of devices ranging from sensors and wireless PDAs to PCs and servers. A choice of plug-in components is available from 4TEC to match the strongly varying footprint requirements.

High-Availability

Automated replication management and no-single-point-of-failure due to SkyBoard's peer-to-peer communication architecture guarantees availability of critical information where computer systems and communication links may fail.

Dynamic Configuration

Applications, services, and devices may dynamically join or leave the infrastructure or relocate their position in the network. This makes SkyBoard the solution of choice for data-intensive, large-scale, highly dynamic service-based device networks.

Standards-Based Interfaces

SkyBoard's interfaces are fully based on leading industry standards, supporting ODBC for C/C++, JDBC for Java, and SQL-92 for data modeling and manipulation. These standards allow application developers to focus on business, keeping them away from time consuming and expensive custom programming for data management, data distribution, and real-time performance.

The Benefits of Skyboard

Achieve Quick Time-to-Market

- Start applications' development immediately using well known interfaces.
- Keep away from time consuming custom programming.
- Easily integrate into existing solutions using industry-strength standards.

Reduce Development Costs

- Use widely available modeling and database tools.
- Eliminate expensive complex coding for real-time data management and communication.

Deliver Cutting-Edge Solutions

- Process massive amounts of information across networks in real-time.
- Turn near instantaneous responses to (remote) critical events into a business advantage.
- Seamlessly integrate networked applications, services, and devices.

Minimize Operational Costs

- Maintain complex networked applications against near-zero administration.
- Dynamically add or change system components.
- Run on common hardware platforms and networks.

Reduce Risks

- Guarantee continuous system availability through dynamic replication management.
- Rely on continuous high-quality technical support.
- Build on years of experience in the world's most demanding real-time application domains.
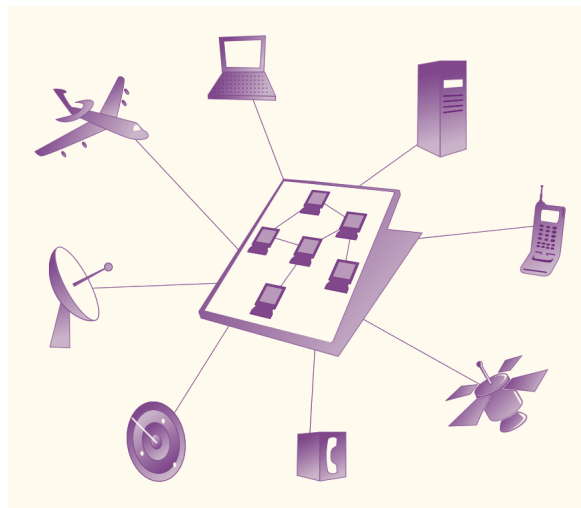
Technical Specifications

Availability

- Solaris 8 and higher on SPARC (32/64 bit) (runs in disk-based and diskless mode)
- Linux with kernel 2.4.20 and higher on Intel x86 (runs in disk-based and diskless mode)
- Windows XP, 2000, NT on Intel x86 (runs in disk-based and diskless mode)

Application Interfaces and Connectivity

- ODBC (C/C++)
- JDBC (Java)
- SQL-92
- DDS
- IIOP (CORBA)

4TEC

About Our Partner

Based in The Hague, The Netherlands, 4TEC offers an innovative product range of complete infrastructure solutions for distributed real-time information management. Its products uniquely integrate real-time peer-to-peer networking and in-memory database technology. 4TEC builds on years of experience in the world's most demanding real-time application domains, including defense, global communications, and transportation. Its customers can rely on continuous high-quality services, including technical support, training, solution architecting, turn-key infrastructural solutions, and specialized real-time software developments.

www.4tec.nl

About RTI

Real-Time Innovations, Inc. the expert in real-time information networking, leads the industry with high performance standards-based software solutions for data-critical applications. Its products and consulting services provide the infrastructure for national railways, air traffic control, traffic monitoring, mission-critical combat systems, financial transaction processing, and industrial automation. RTI's flagship product, NDDS, is middleware based on the Object Management Group's (OMG) Data Distribution Service (DDS). NDDS provides the essential foundation for real-time communication in a networked system and enables a new class of embedded to enterprise (e2E) applications. Raytheon, Nikon, Omron, Harmonic, Applied Materials, Schneider Automation, Boeing, Lockheed Martin and the US Military rely on RTI technology for their real-time, data-centric, distributed applications. Headquartered in the heart of Silicon Valley since 1991, RTI is a privately held company.

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