

## ThyssenKrupp Steel

ThyssenKrupp Steel AG  
Duisburg  
www.thyssenkrupp-steel.com

### Industry:

Industrial Manufacturing

### Annual Revenue:

9.7 billion Euro

### Employees:

50,000

### Oracle Products & Services:

Oracle Database 10g  
Oracle Application Server 10g  
Oracle XML DB  
Oracle Internet Directory

**"With the help of Oracle XML DB, it is now possible for us to load data from very different data sources efficiently and scalably into our Data Warehouse. Thus, we are able to have all necessary data, reports, and analyses available at any time."** - Volker Husemann, Project Manager XML Database, ThyssenKrupp Steel, Duisburg

## ThyssenKrupp Steel Integrates XML Documents into DW

The Steel Division of the ThyssenKrupp concern concentrates on manufacturing and selling high-grade flat products made from high-quality steel as well as offering product-related services.

ThyssenKrupp Steel is active globally and holds leading positions worldwide.

### Challenges

- Needed to modernize and merge legacy systems for scalable entry of flexible XML data from the most diverse data sources into Data Warehouse (DW) TOMIS (ThyssenKrupp Steel Order and Material Information System). TOMIS is the uniform platform that provides data for the order execution and planning process at ThyssenKrupp Steel.
- Provide a highly available, 24/7 solution.

### Solution

- Establishing Oracle XML DB for efficient and scalable entry of XML data streams into DW.
- Cost savings realized from consolidation of disparate systems to one centralized Oracle database.
- Use of Web technologies.
- Integrated connection between the relational world and XML.
- Seamless and scalable entry of hierarchical structures in relational systems.
- Incorporating the production control system with a data transmission rate of approximately 8 documents per second.
- Representing the contents of XML documents as relational views.
- High performance through object-relational storage (instead of data transformation) and "Query Rewrite".
- Possibility of flexibly changing data structures in very different source systems without re-programming.
- Scalable processing of large data volumes.
- Holistic view of commercial and technical data.