



iZeeScore

Realtime golfscores via internet



iZeeScore

- Started in 2005
- Gained lots of experience in Golf scoring systems and the related technology.
- Served multiple large events like KLM Ladies open.



How it works

- Every player/flight uses an PDA to enter the scores made per hole.
- The scores are real-time send over the internet to the iZeeScore server.
- A leader board displays the real-time ranking of the players at that moment.
- Players in the field are informed directly about their ranking.
- Live demo



Requirements Webgui

- Flexible architecture
- Low-cost **Capital Expenses** (CapEx)
- Low-cost **Operational Expenses** (OpEx)
- Short time to market
- Browser compatibility
- Low bandwidth because mobile usage
- High Quality and maintainability



Features coming year

- Convert to global business model
- Convert from iMode to iPhone PDA
- Publish web-services(REST-services) for iPhone and Adroid
- Develop iPhone app for iZeeScore

Agile application development using Oracle APEX and Model Driven Development (MDD)

“Maximizing the Amount of Work Not Done”

Agenda

- Challenges iZeeScore
- What we do
- How we do it
- Demo

Why Oracle APEX

- database-centric
- scalable
- browser compatibility
- data-type compatibility
- hybrid application: MDD + custom build APEX-pages

Why MDD

Next generation application development and maintenance through a Model Driven Approach (MDD) resulting in automating repetitive development tasks, leads to:

- Lower Total Cost of Ownership
- Shorter Time to Market
- Higher Quality



Quotes biggest technology researcher

- "Business and IT modeling standards and technologies are converging"
- "Complexity of new SOA's and BPM demand more-abstracted MDD approach and technologies"
- "The differences between design time and runtime technologies are disappearing"

MDD Definition

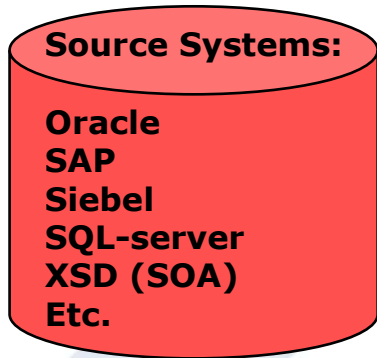
- Configure “What”
- Automate “How”
- Abstracting technology from requirements
- Automates error-prone development and maintenance tasks

MDD Principles

- Maximize the amount of work not done
- Inheritance
- Convention over configuration

MDD Applications

- Web-gui
- Web-services (REST)
- Data warehousing
- Data Vault
- Access management
- Application integration
- Data quality (Rulegen)

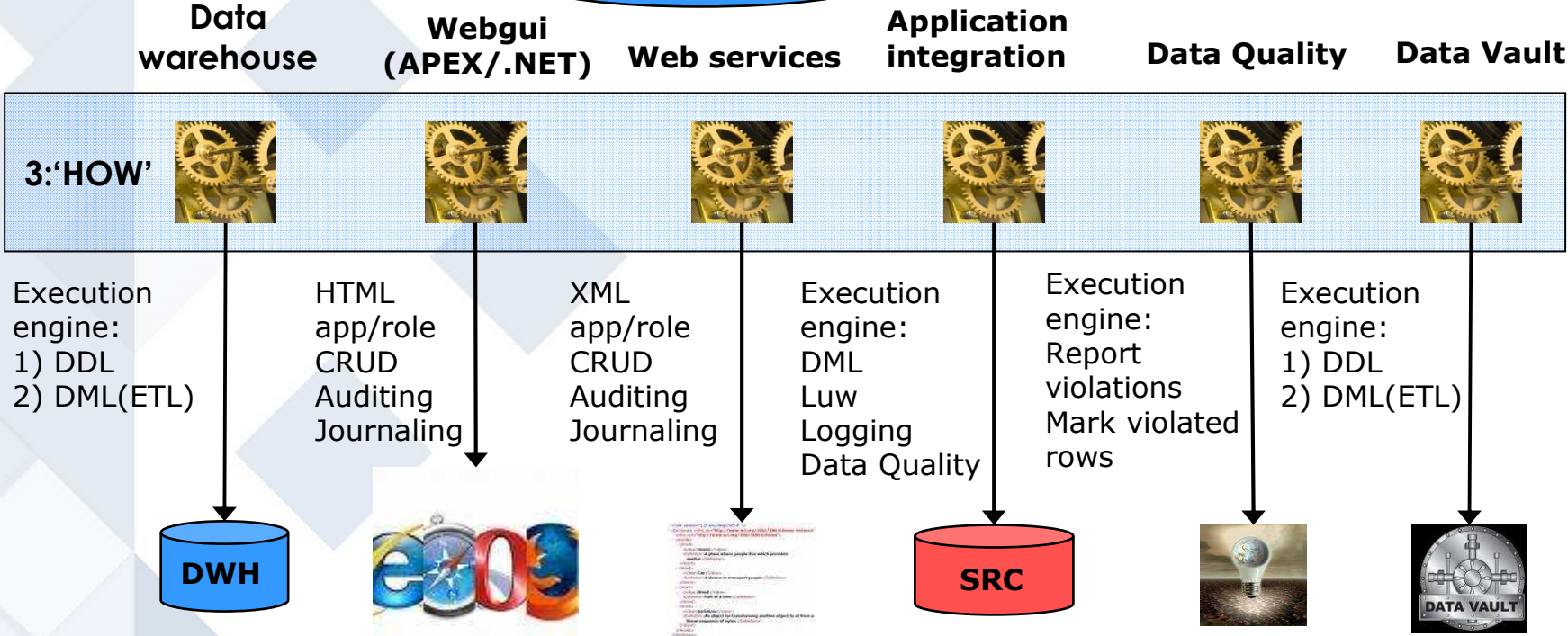


1: Fetch relevant meta-data (=80% DSL)

2: Enrich with 'WHAT' (=20% DSL)



Locations	SAPR3	LATITUDE_SAPR3
Owners	SAPR3	SAPR3
Src Table Name	DFKKOP	
Comments		
Src Num Rows	1000	numeric
Src Last Analyzed	12/5/2007 10:00:27 PM	MM/dd/yyyy hh:mm:ss tt
Src Extends Bytes	655360	numeric
Dest Table Name	OSP_DFKKOP	
In Dest	Y	
Create Table Clauses	--Select from the list-- ORACLE_FULL_PARALLEL ORACLE_DATA_PUMP ORACLE_INC_CDC ORACLE_INC_LOGMINER FULL_SINGLE_STATEMENT INC_BUSINESS_KEY	
Default Load Method	ORACLE_FULL_PARALLEL	

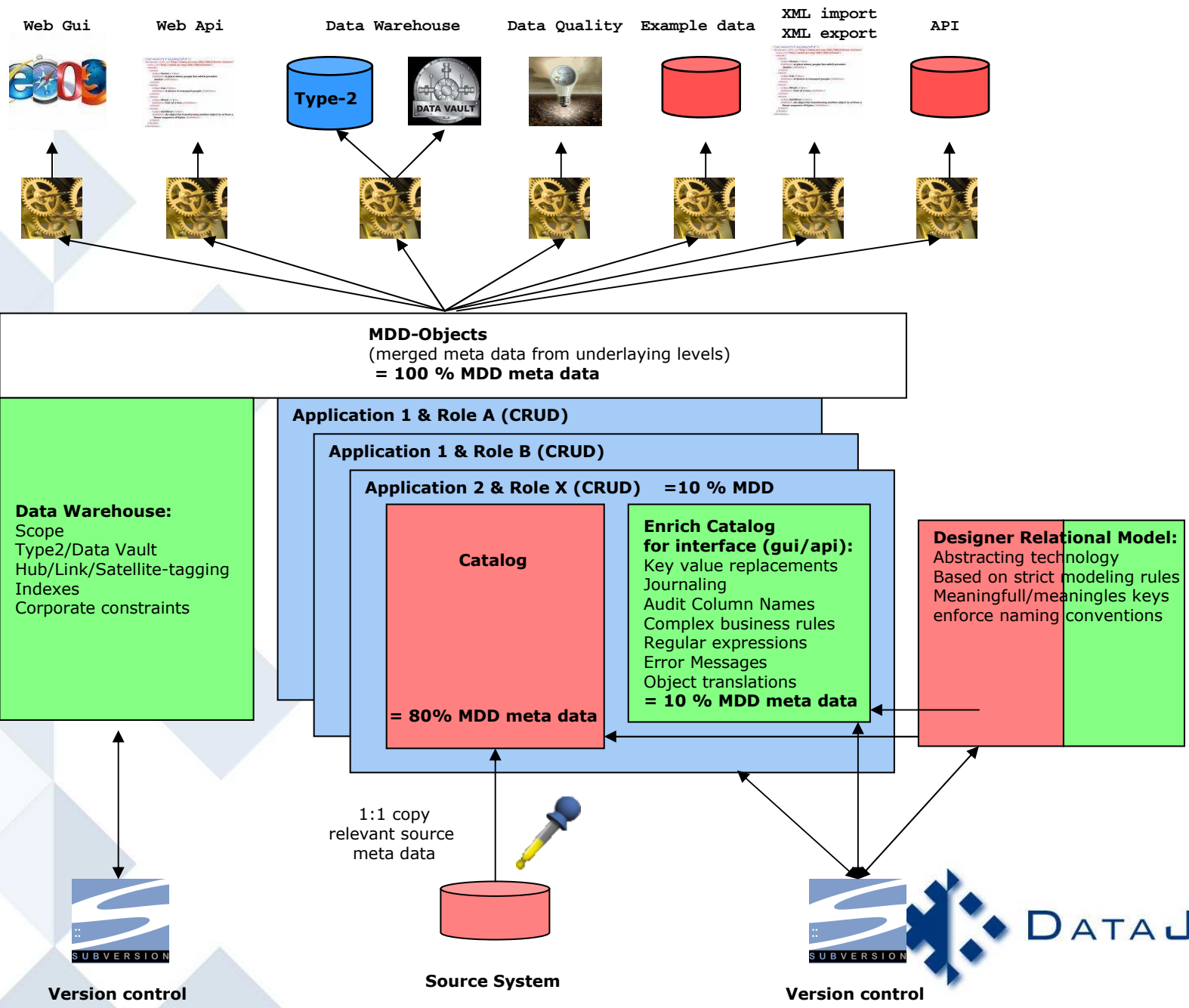


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Domain Specific Language (DSL)

- meta data groups:
 - catalog (CAT)
 - interface (INT)
 - program (PRG)
 - role (ROL)
- meaningless versus meaningful keys
- use available meta data from data dictionary
- demo runtime behaviour



Fine-grained security model

- CRUDF
- Table-level
- Column-level
- Row-level
- Execution-level (PL/SQL)

Features end user

- auditing & journaling
- empower end-users
- row-level security
- themes
- cache select-clause, where-clause and order by-clause

Features developer

- Binding: CRUDF, SQL-injection prevention & performance
- invoke custom build (APEX) pages
- invoke custom queries like pivots
- invoke external urls like Google maps
- invoke PL/SQL procedure
- export/import MDD solution
- promotion MDD solution
- impact (analysis) MDD solutions on data model changes

Near future features

- Publish Rest-webservices
- Designing Relational Model (DRM)
- inline-editing
- cascade delete reporting

Questions

- Now:
- Later:
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