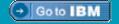




Best Practices for Effective DOORS Implementation

Ashwini Patil, IBM India Advisory Manager

Rational. software





AGENDA

- Overview of DOORS
- Project Architecture in DOORS
 - Database schema
 - Module framework
 - Setting linking schema
 - Application of access rights
 - Importing legacy data from Word
 - Baselines/Baseline sets
- Summary
- Demo
- Questions





Overview Of DOORS



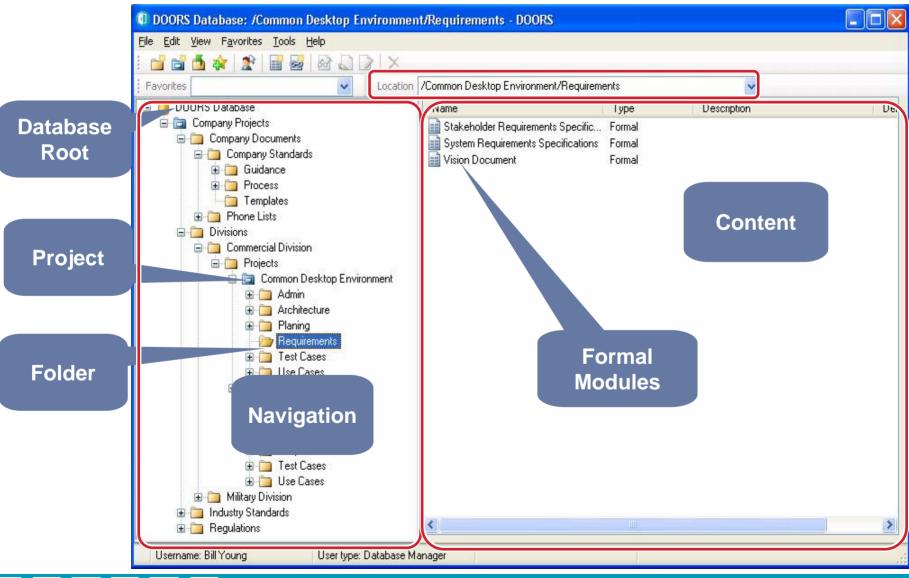


What is DOORS?

- Rational DOORS is the market and technology leader for Requirements Management
- A requirements management tool with:
 - Multi-user document access
 - Extensive access controls
 - Change control & tracking
 - Requirement linking
 - Filtering & sorting of data
 - Traceability & impact analysis support



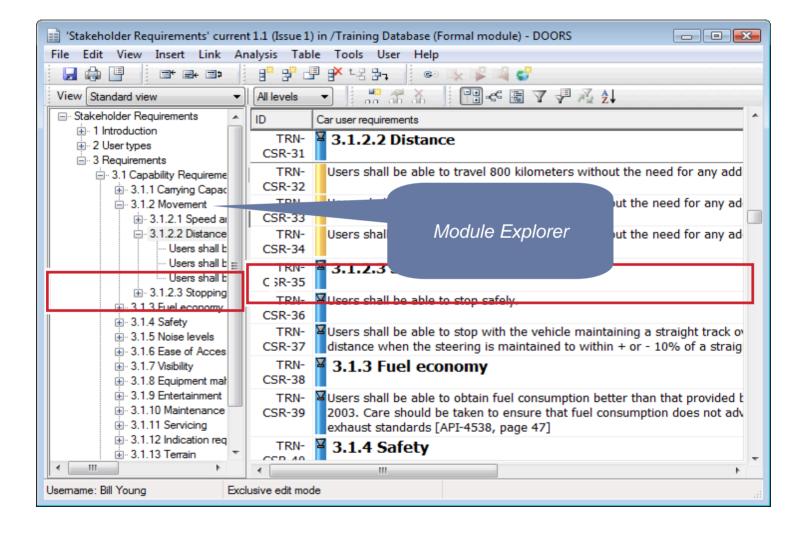
Database Structure







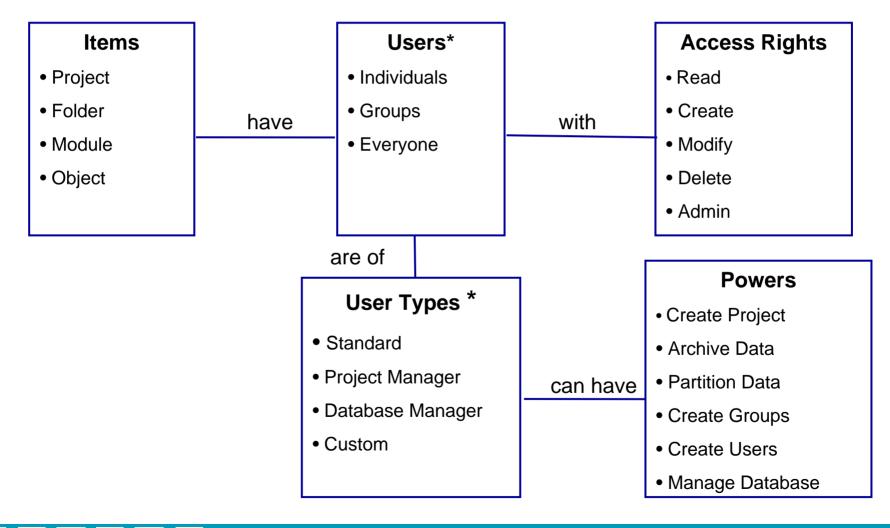
Modules







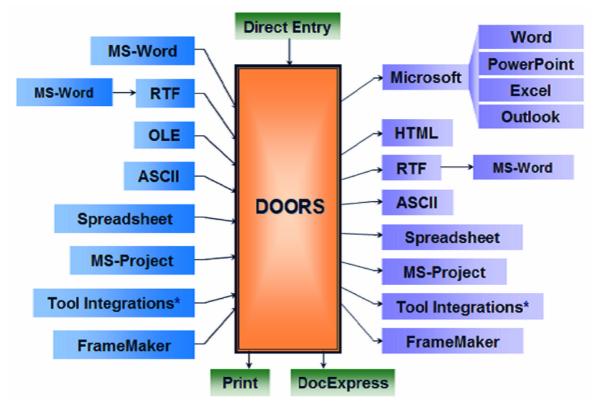
DOORS Item Entity Relationship







DOORS Data Exchange Options



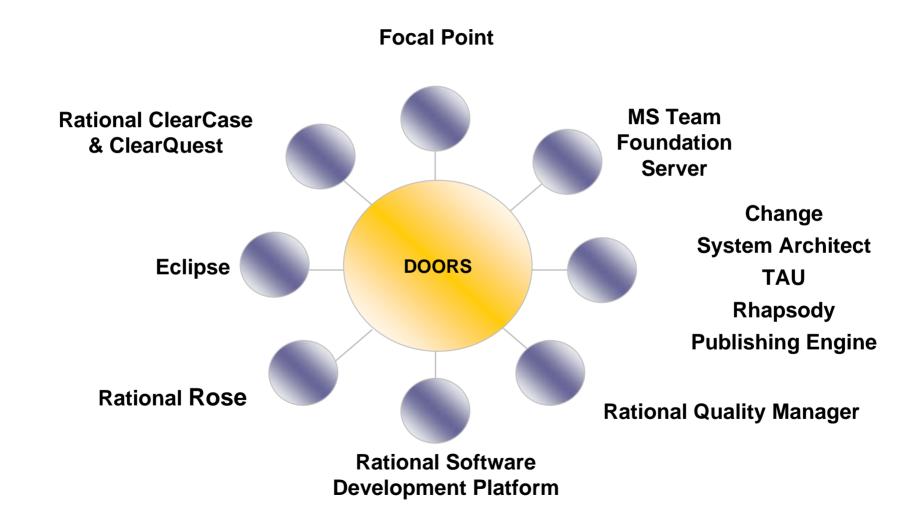
Other options include

- * Partition/Rejoin, RIF
- * Archive/Restore
- * DXL based data Exchange Tools





DOORS Integrations - Current







Project Architecture in DOORS



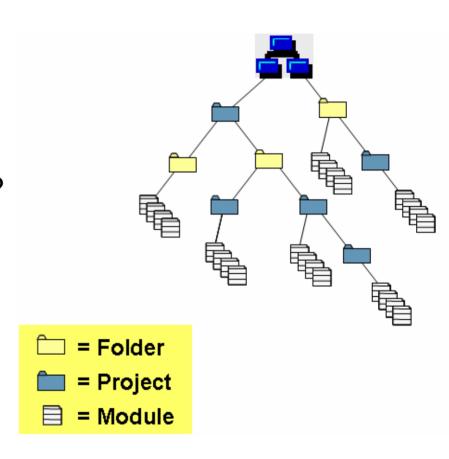


Database Schema

How to organize data?

When use projects and folders?

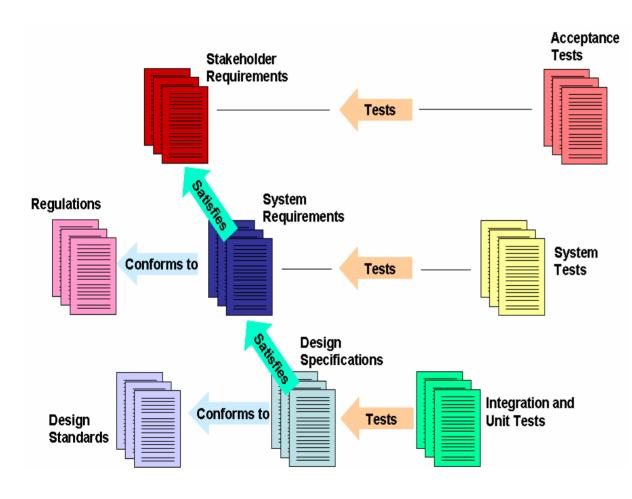
Naming convention?



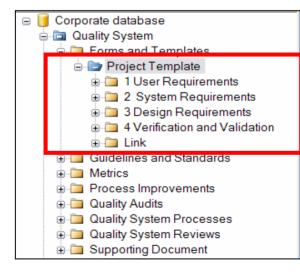




Database Schema contd.



Example of Project Template





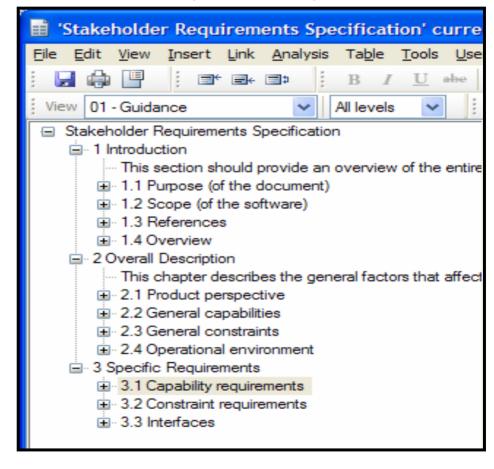


Module framework

Create a new module or use an archetype

Using archetypes enables re-use of the consistent schema and the best practices in the organization.

Template Example







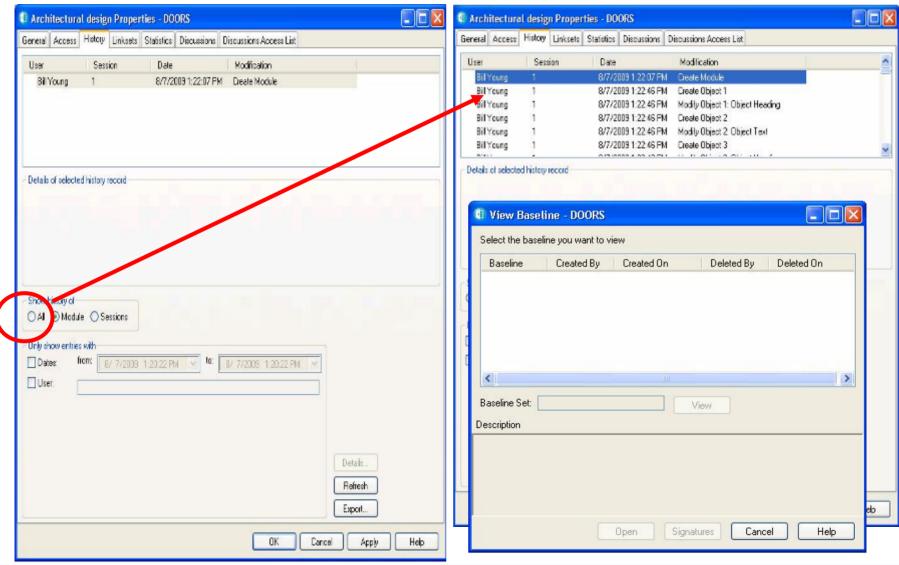
Module framework

Module considerations to optimize performance

- History/Baselines
- Shareable Edit
- Views (default) –Module explorer, Layout/Attribute DXL
- Deleted Non-Purged Objects
- OLEs
- Tables



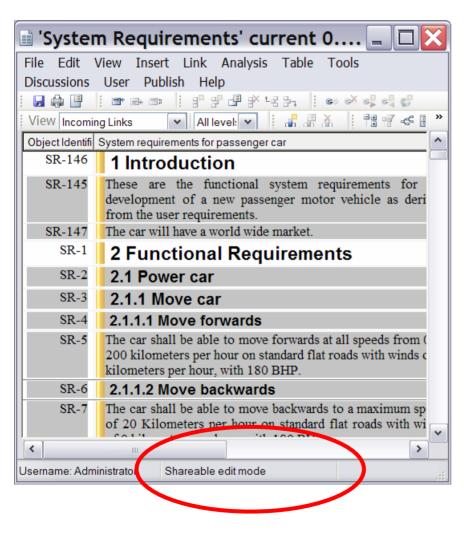
History/Baselines







Shareable edit



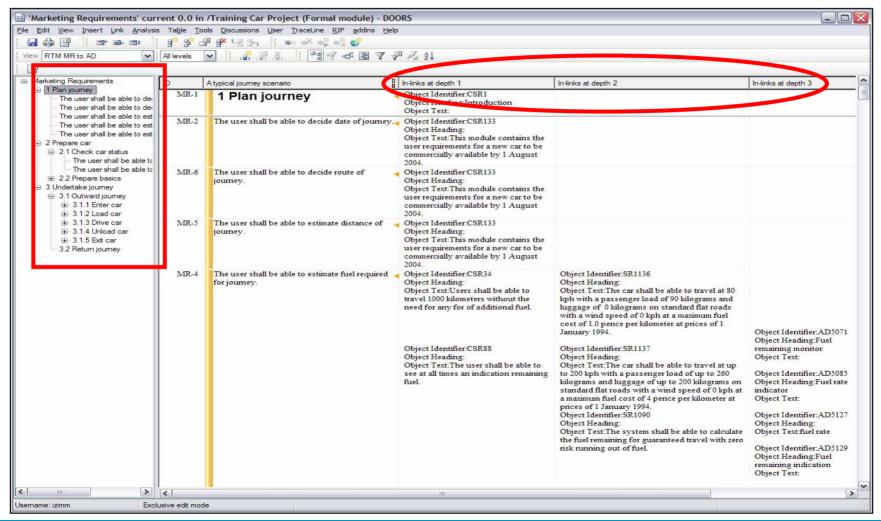
 Setup for sharing the module at levels 1, 2 or 3.

 Open the module in exclusive edit mode and save on a periodic basis



Views (default)

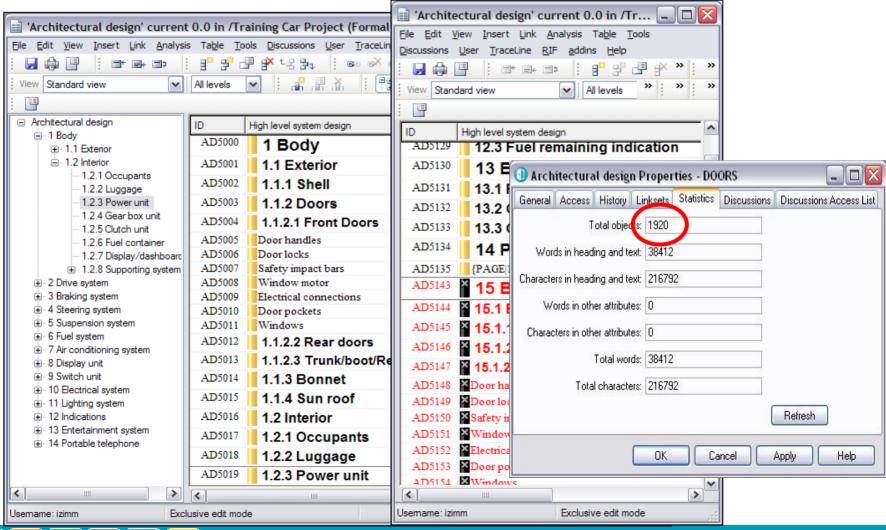
Module Explorer/Layout/Attribute DXL







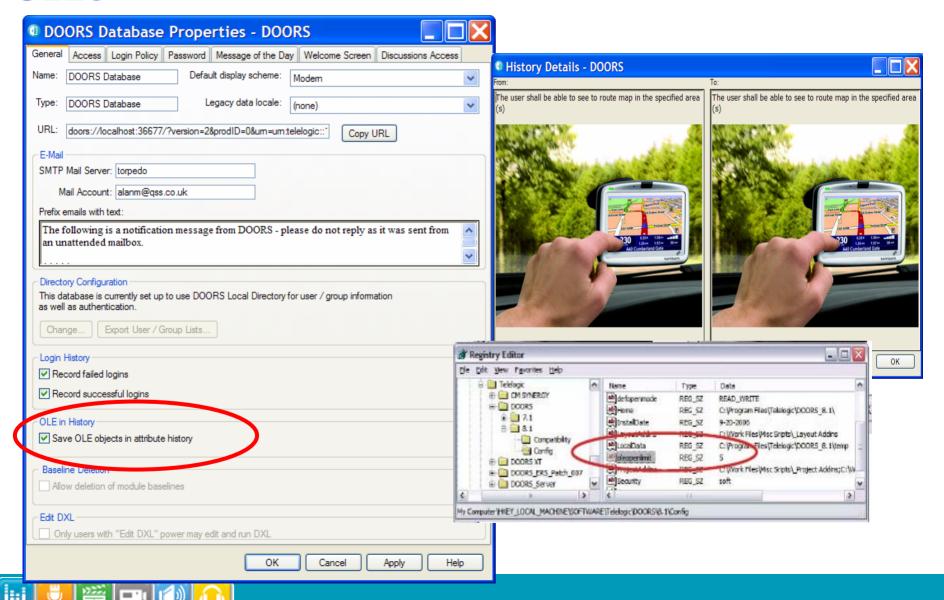
Deleted Non-Purged Objects







OLEs





Tables

Use OLE for tables if:

The entire table represents a single requirement

The table does not contain requirements, and the data can be easily displayed in an OLE object

Convert the table to DOORS text objects if:

Entire rows or columns represent single requirements

You want to be able to display and modify attribute values in a separate column for each requirement in the table





Setting linking schema

Direction and Type of Links

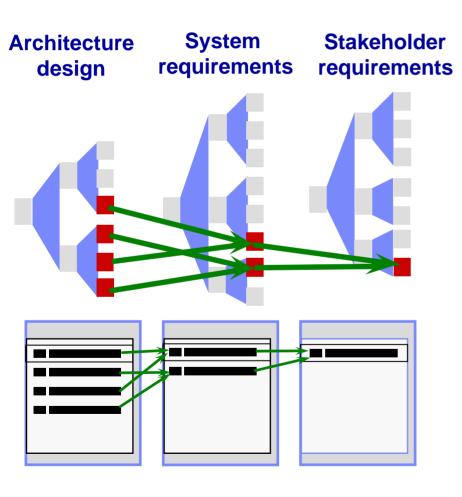
Use of DOORS Links

Link Enforcement



Direction and Type of Links

Direction of links

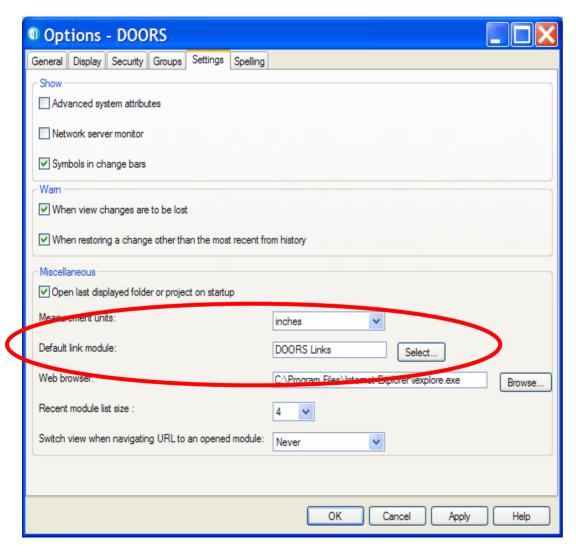


Type of Links

- Satisfies links
- Verification links
- Recursive links
- Confirms to links



Use of DOORS Links

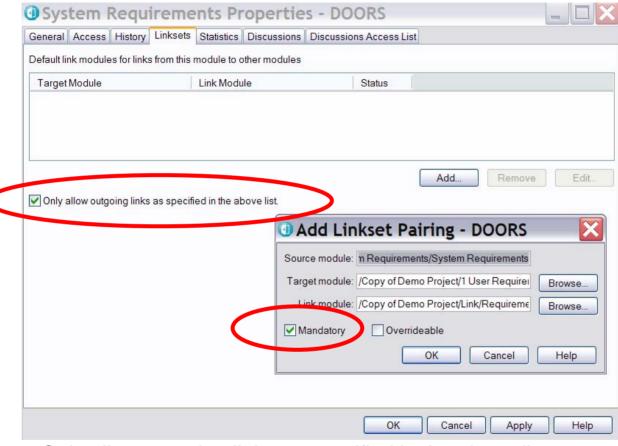


"DOORS Links" is the default





Link Enforcement

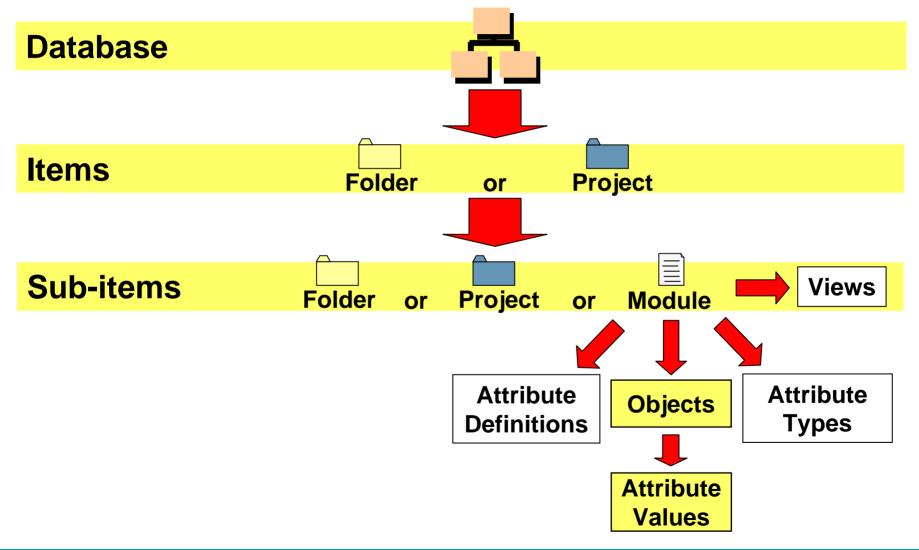


- Only allow outgoing links as specified in the above list
- Ensure every rule has a defined linkset





Access Rights Application







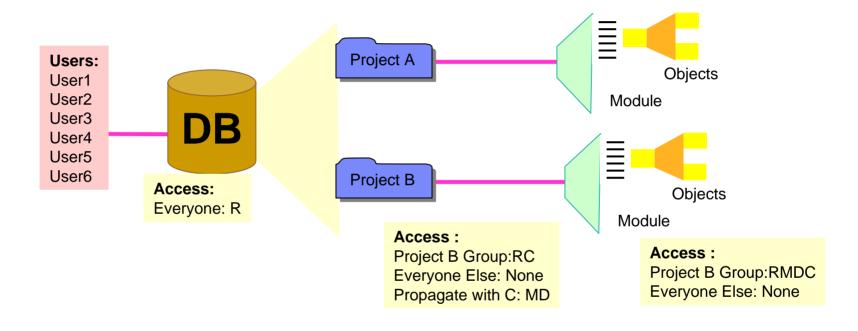
Access Control Strategies

- Use strict controls at top levels
 - Prevent accidental data moves and copies
- Use propagation to allow easier access
 - Each project/level can have separate access
- Use groups rather than named users
- Use groups for common permissions
 - Set project access to "None"
 - Explicitly allocate rights through groups
- No one (except the Admin Groups) should have access to anything as a default.
 - Users who are both Admins and Engineers should have two accounts to keep the work done separate.





Access Control Strategies - Example



Group Definitions

Project A Group User1

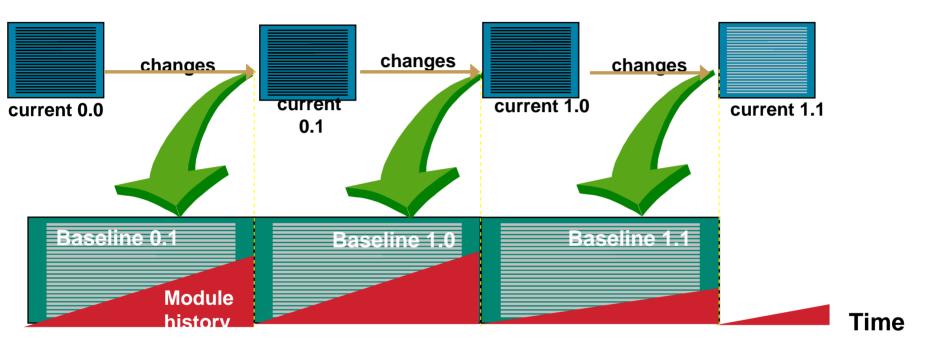
User2 User3 Project B Group

User2 User4 User5 User6





Baselines



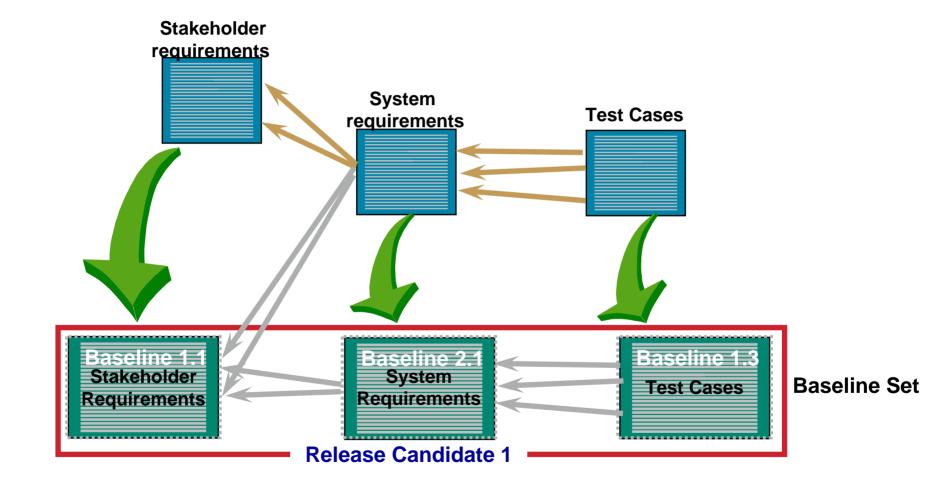
Some basic guidelines:

Minor baseline after initial import, after reformat, prior to purge of deleted objects Major baseline after Review, consensus, Build Definition.





Baseline sets







Importing Legacy data from Word



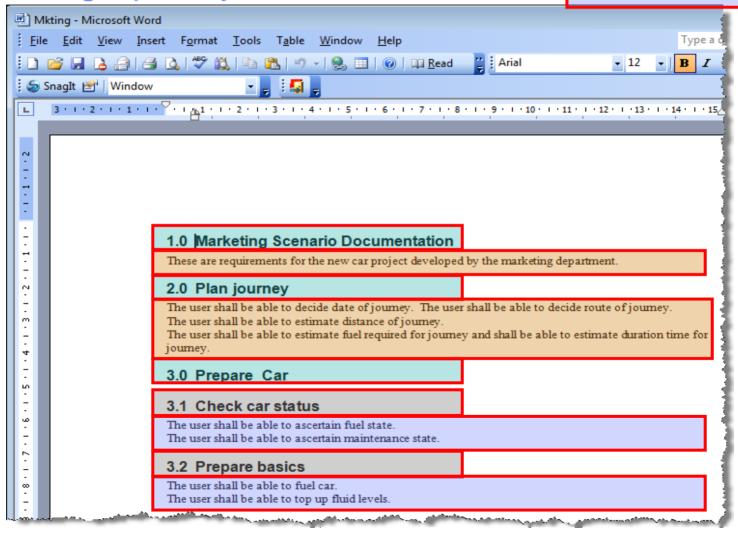
Level 1 DOORS Heading

Level 2 DOORS Text Object

Level 2 DOORS Heading

Level 3 DOORS Text Object

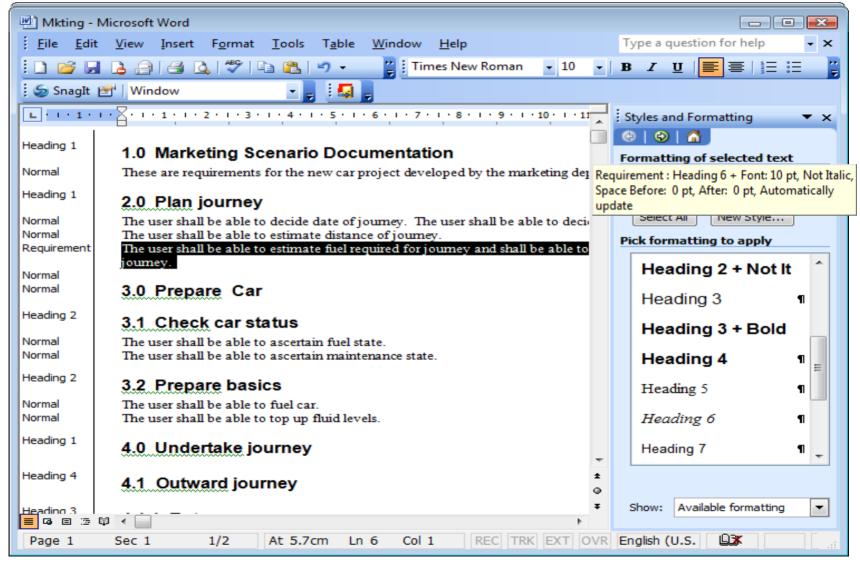
Word Paragraph Styles







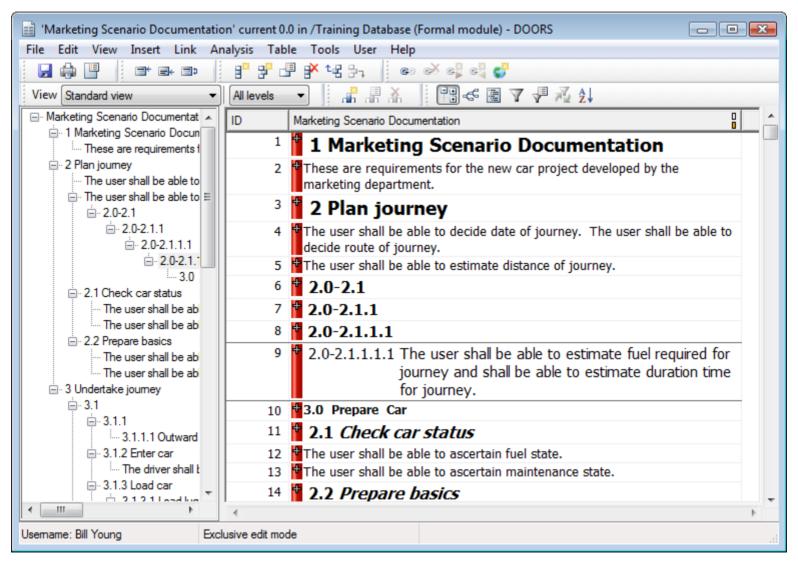
Checking Styles







Export to DOORS







Summary



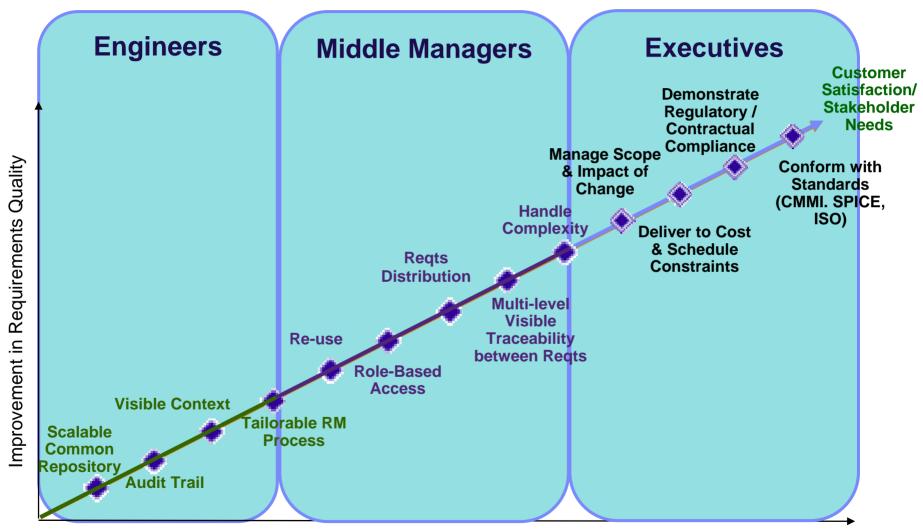


Benefits

- Re-usability
- Performance optimization
- Traceability/Impact Analysis
- Effective word imports
- Effective Management of Access Controls



What RM Best Practice Means to Stakeholders



Increased use of Requirements Management Good Practices





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