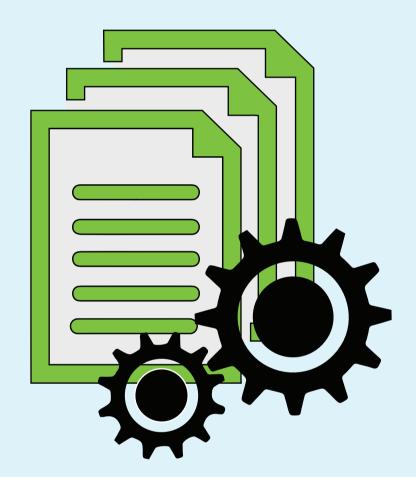


Detecting Defects in Software Models of Small Teams

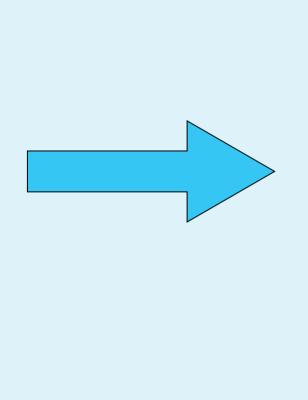
Parsing rules

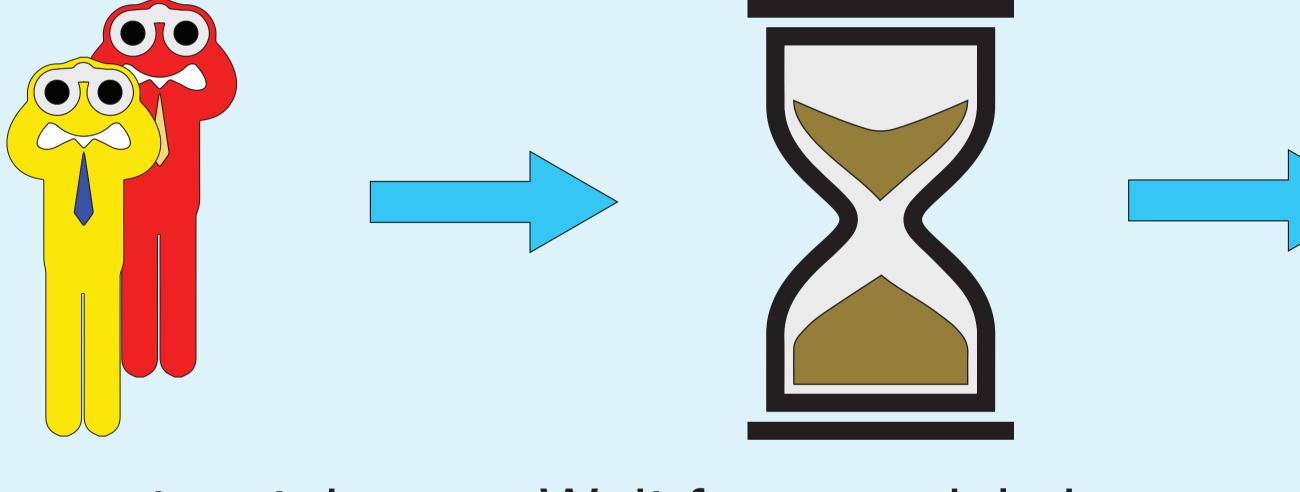
- check, if there are any new rules and download them
- parse all available rules - if there is a problem with parsing a rule, skip it

- watchers
- watchers wait for a modification



Parse existing rules





Register event watchers Wait for a model change

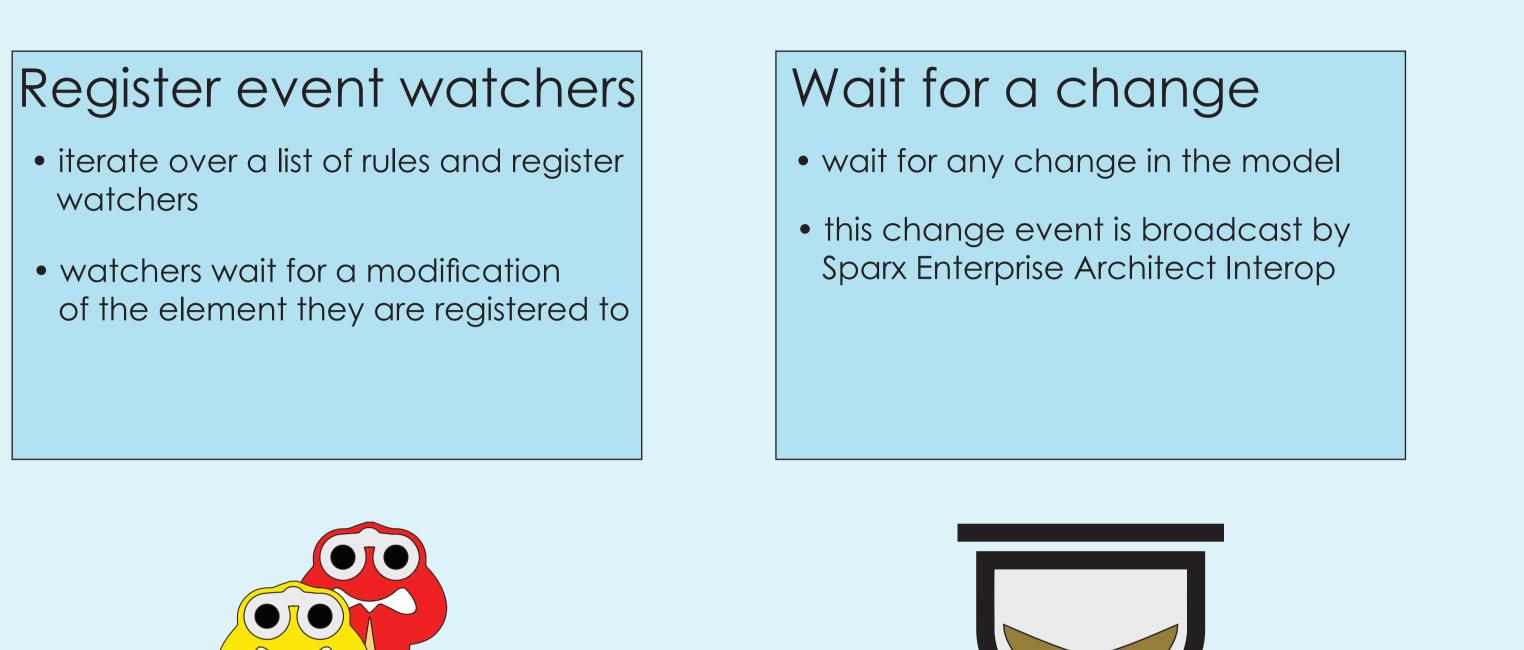


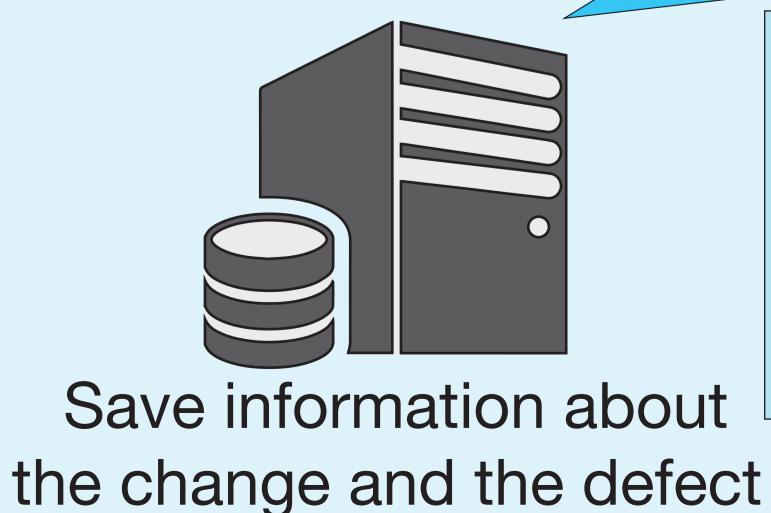
Notify of model defect

Notify of a defect

- if a change resulted in a defect, notify the user
- offer the options
 - automatic defect correction
 - hide the defect notification
 - highlight the defective element

Small Teams Helper: Extension for Sparx Enterprise Architect Jakub Ondik <jakubondik@gmail.com>, supervisor: Karol Rástočný

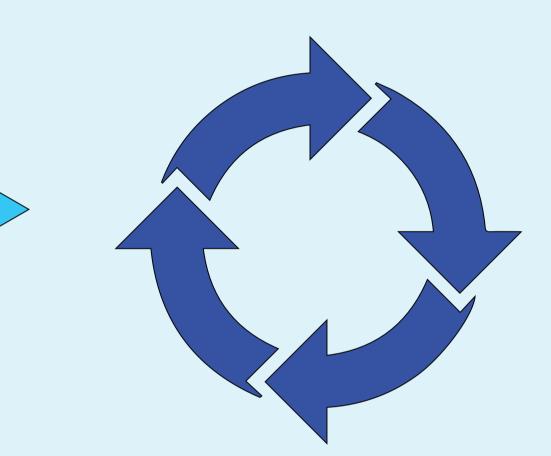






Process a change

- categorize broadcast model change
- create a message for tracking changes
- save this message to the local database
- if a change results in a defect, save a defect tracking message to the local database



Process the model change

Save information

- send the change tracking message to the server application and save it
- if a change resulted in a defect, check, if this defect hasn't already been reported and if it was, update the counter
- if this defect hasn't already been reported, save the message