CAViT - Kurzvorstellung

Auswertung von Versuchs- und Simulationsdaten

Martin Liebscher, März 2015

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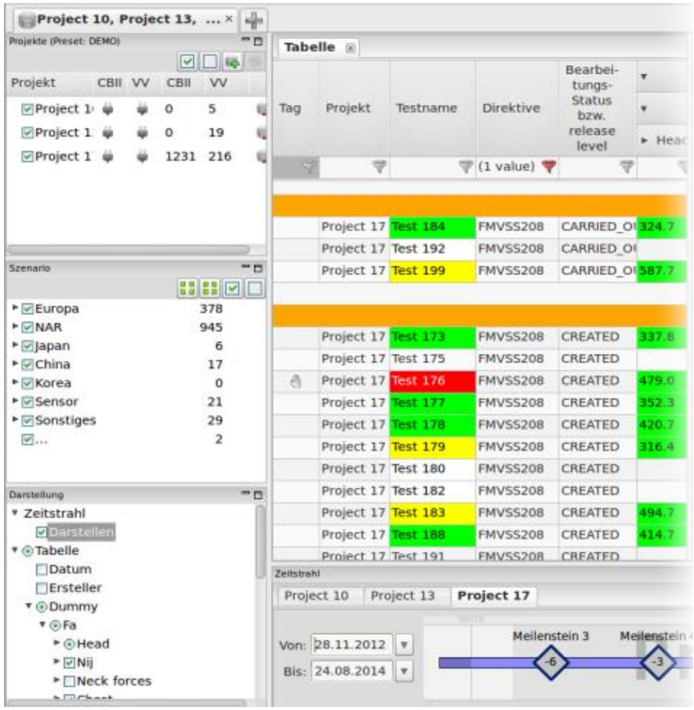
- Einordnung / Motivation
- Produktübersicht
- Demo

Überblick Software Produkte

CAViT

CAD/Meshing → PreProcessing → Solving → Postprocessing

CAViT *(seit 2009)*



Project 10, Project 13, …

Projekte (Preset: DEMO)

Projekt	CBII	VV	CBII	VV
☑ Project 1			0	5
☑ Project 1			0	19
☑ Project 1			1231	216

Szenario

▸ ☑ Europa	378
▸ ☑ NAR	945
▸ ☑ Japan	6
▸ ☑ China	17
▸ ☑ Korea	0
▸ ☑ Sensor	21
▸ ☑ Sonstiges	29
☑ …	2

Darstellung

- ▾ Zeitstrahl
  - ☑ Darstellen
- ▾ ○ Tabelle
  - ☐ Datum
  - ☐ Ersteller
  - ▾ ○ Dummy
    - ▾ ○ Fa
      - ▸ ○ Head
      - ▸ ☑ Nij
      - ▸ ☐ Neck forces

Tabelle

Tag	Projekt	Testname	Direktive	Bearbeitungs-Status bzw. release level	▸ Hea
			(1 value)		
	Project 17	Test 184	FMVSS208	CARRIED_O	324.7
	Project 17	Test 192	FMVSS208	CARRIED_O	
	Project 17	Test 199	FMVSS208	CARRIED_O	587.7
	Project 17	Test 173	FMVSS208	CREATED	337.8
	Project 17	Test 175	FMVSS208	CREATED	
	Project 17	Test 176	FMVSS208	CREATED	479.0
	Project 17	Test 177	FMVSS208	CREATED	352.3
	Project 17	Test 178	FMVSS208	CREATED	420.7
	Project 17	Test 179	FMVSS208	CREATED	316.4
	Project 17	Test 180	FMVSS208	CREATED	
	Project 17	Test 182	FMVSS208	CREATED	
	Project 17	Test 183	FMVSS208	CREATED	494.7
	Project 17	Test 188	FMVSS208	CREATED	414.7
	Project 17	Test 191	FMVSS208	CREATED	

Zeitstrahl

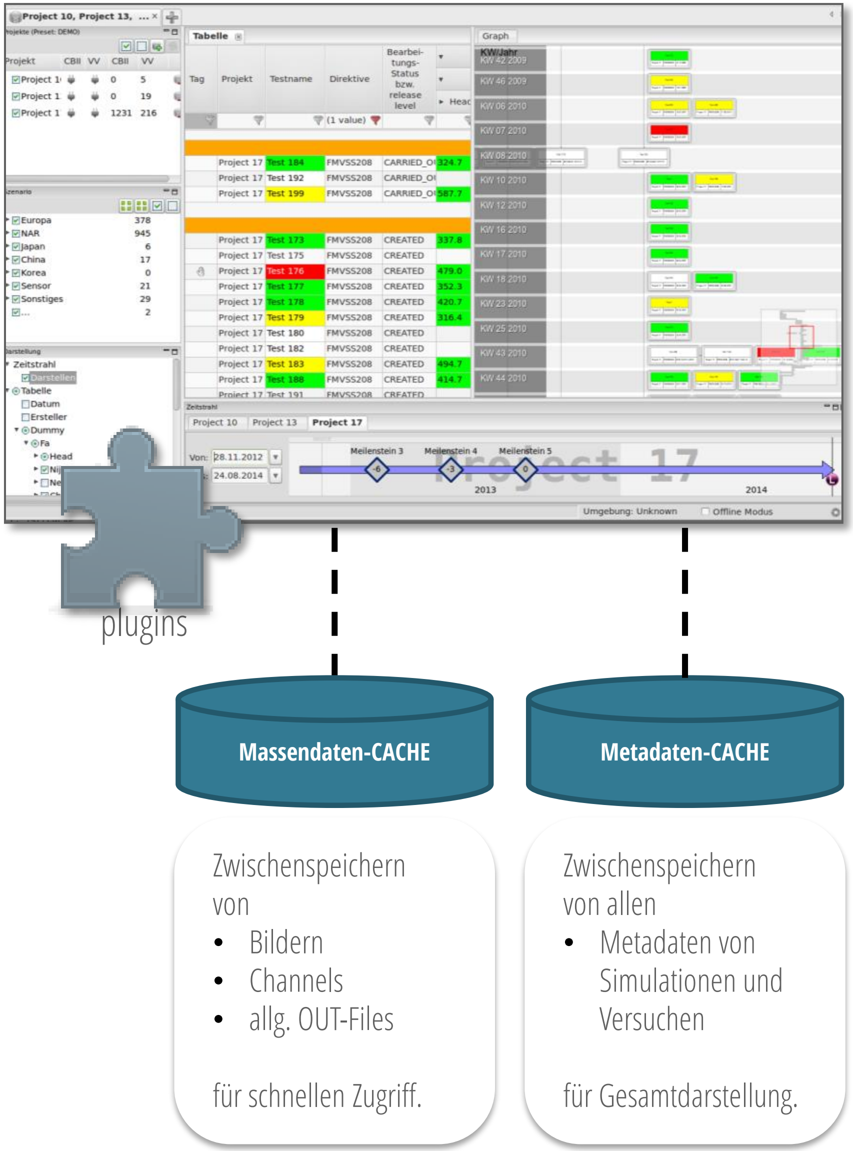
Project 10 | Project 13 | **Project 17**

Von: 28.11.2012

Bis: 24.08.2014

- **Post-Datenmanagement**
  - Beschaffung und Bereitstellung von Ergebnisdaten aus Simulation und Versuch
  - Unterstützung für die Auswertung von Simulations- und Versuchdaten
- **Features**
  - Übersichtliche Visualisierung des Datenbestandes
  - (Vor-)Bewertung von Simulations- und Versuchsergebnissen (szenariobasiert)
  - PlugIn-Konzept u.a. für Integration von beliebigen Applikationen (z.B. Animator, Falcon,..) und Prozessen
    - Reporterstellung
    - Prozessautomatisierung

CAViT: *Architektur*



Project 10, Project 13, …

Projekte (Preset: DEMO)

Projekt	CBII	VV	CBII	VV
☑ Project 1			0	5
☑ Project 1			0	19
☑ Project 1			1231	216

Szenario

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☑ Sonstiges	29
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Darstellung

- Zeitstrahl
  - ☑ Darstellen
- ◉ Tabelle
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  - ☐ Ersteller
  - ◉ Dummy
    - ◉ Fa
      - ◉ Head

Tabelle

Tag	Projekt	Testname	Direktive	Bearbeitungs-Status bzw. release level	
			(1 value)		
	Project 17	Test 184	FMVSS208	CARRIED_OU	324.7
	Project 17	Test 192	FMVSS208	CARRIED_OU	
	Project 17	Test 199	FMVSS208	CARRIED_OU	587.7
	Project 17	Test 173	FMVSS208	CREATED	337.8
	Project 17	Test 175	FMVSS208	CREATED	
	Project 17	Test 176	FMVSS208	CREATED	479.0
	Project 17	Test 177	FMVSS208	CREATED	352.3
	Project 17	Test 178	FMVSS208	CREATED	420.7
	Project 17	Test 179	FMVSS208	CREATED	316.4
	Project 17	Test 180	FMVSS208	CREATED	
	Project 17	Test 182	FMVSS208	CREATED	
	Project 17	Test 183	FMVSS208	CREATED	494.7
	Project 17	Test 188	FMVSS208	CREATED	414.7
	Project 17	Test 191	FMVSS208	CREATED	

Zeitstrahl

Project 10 | Project 13 | **Project 17**

Von: 28.11.2012

Bis: 24.08.2014

Umgebung: Unknown

☐ Offline Modus

Graph
KW/Jahr
KW 42 2009
KW 46 2009
KW 06 2010
KW 07 2010
KW 08 2010
KW 10 2010
KW 12 2010
KW 16 2010
KW 17 2010
KW 18 2010
KW 23 2010
KW 25 2010
KW 43 2010
KW 44 2010
Meilenstein 3
Meilenstein 4
Meilenstein 5
-6
-3
0
Project 17
2013
2014
plugins

Massendaten-CACHE

Metadaten-CACHE

Zwischenspeichern von

- Bildern
- Channels
- allg. OUT-Files

für schnellen Zugriff.

Zwischenspeichern von allen

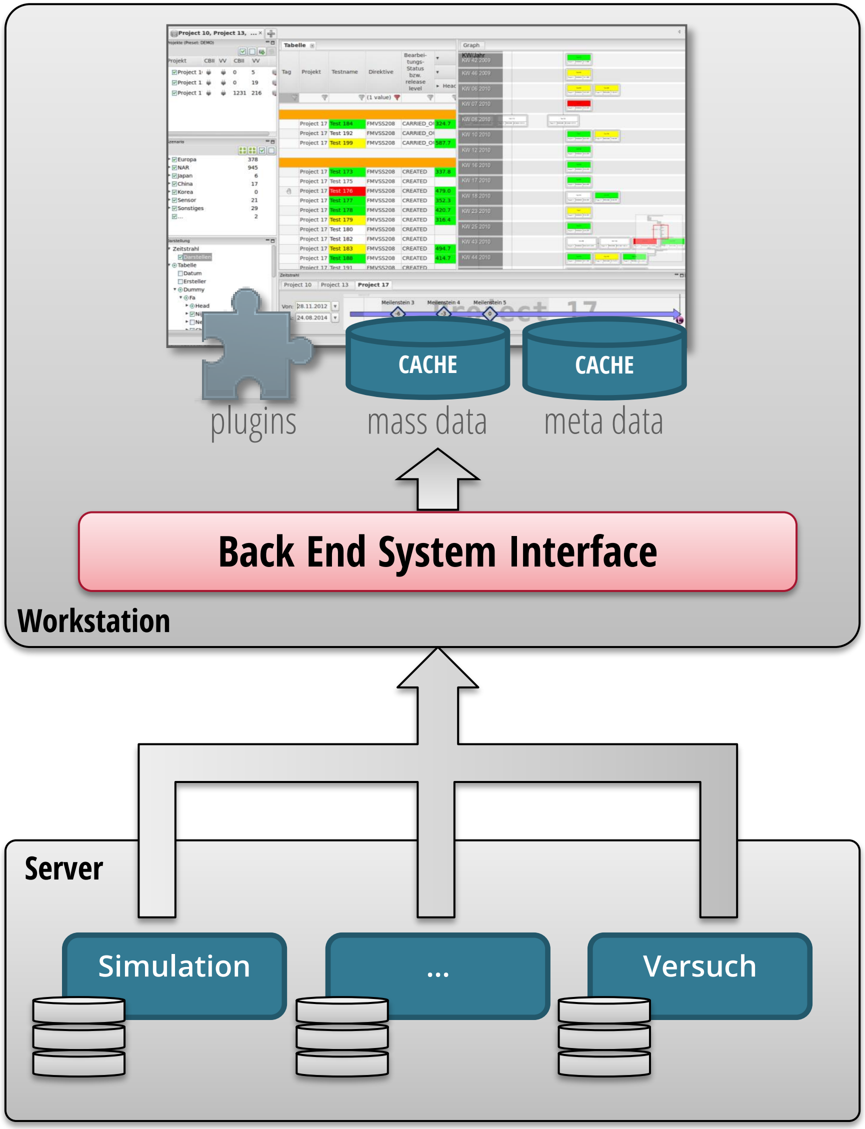
- Metadaten von Simulationen und Versuchen

für Gesamtdarstellung.

- **Architektur**
  - RichClient Architektur – Linux/Windows
  - Erweiterbar via Plugins / Skripten
    - Nahtlose Integration von proprietären Features und Dritt-Software
    - Schnelle Erweiterbarkeit und Pflege ohne Rücksicht auf Releasezyklus
  - Lokales Caching (Performance)
  - Anbindung an Status.E (Berichtsfunktionalität, Status-Verfolgung)

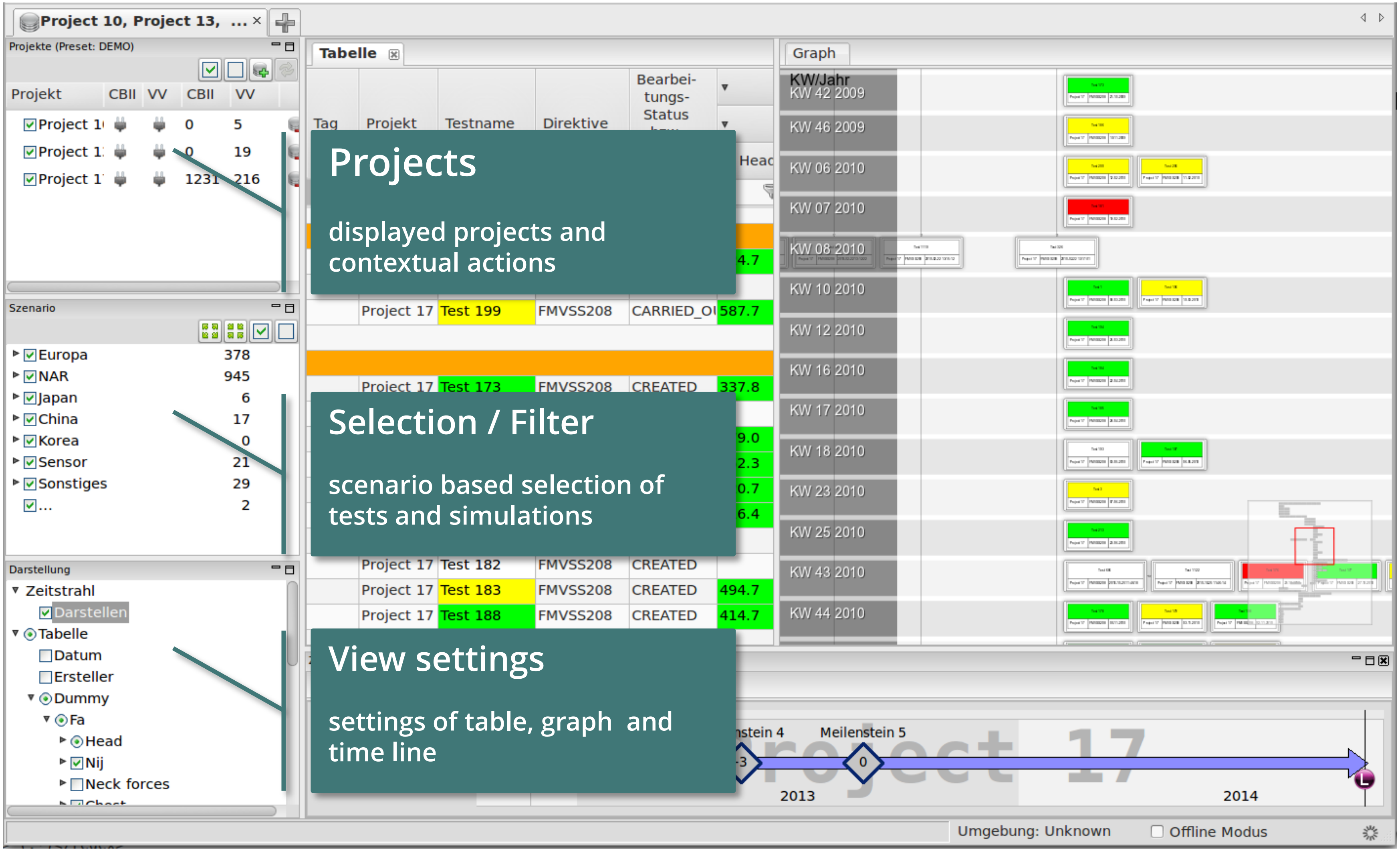
- **Datenbereitstellung**
  - Anbindung an Datenhaltungssystem mittels spezifischen Adaptern
  - keine eigene zentrale Datenhaltung

CAViT: *Datenbereitstellung*


CACHE
CACHE
plugins
mass data
meta data
Back End System Interface
Workstation
Server
Simulation
...
Versuch

- **Datenbereistellung**
  - Datenquellen sind bereits vorhandene Drittsysteme
  - Anbindung über Schnittstellen an Drittsysteme (LoCo, CAE-Bench, Visverdi, Falcon, …)
  - keine eigene *zentrale* Datenhaltung für Simulation/Versuch
  - keine persistente Duplizierung des Datenbestandes
- **Datenformate**
  - Herstellen einer einheitlichen Darstellung bei der Datenübernahme via Schnittstellen; ggf. Datenkonvertierung on-the-fly
  - ISO-MME Standard wird realisiert; ASAM ODS Datentypen werden unterstützt

CAViT: GUI Overview I



Project 10, Project 13, ...
Projekte (Preset: DEMO)
Szenario
Darstellung
Tabelle
Graph
KW/Jahr
Umgebung: Unknown
☐ Offline Modus

Projekt	CBII	VV	CBII	VV
☑ Project 1			0	5
☑ Project 1			0	19
☑ Project 1			1231	216

Szenario	
☑ Europa	378
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- Zeitstrahl
  - ☑ Darstellen
- ● Tabelle
  - ☐ Datum
  - ☐ Ersteller
  - ● Dummy
    - ● Fa
      - ● Head
      - ☑ Nij
      - ☐ Neck forces

Tag	Projekt	Testname	Direktive	Bearbeitungs-Status	Head
	Project 17	Test 199	FMVSS208	CARRIED_OI	587.7
	Project 17	Test 173	FMVSS208	CREATED	337.8
	Project 17	Test 182	FMVSS208	CREATED	
	Project 17	Test 183	FMVSS208	CREATED	494.7
	Project 17	Test 188	FMVSS208	CREATED	414.7

KW 42 2009
KW 46 2009
KW 06 2010
KW 07 2010
KW 08 2010
KW 10 2010
KW 12 2010
KW 16 2010
KW 17 2010
KW 18 2010
KW 23 2010
KW 25 2010
KW 43 2010
KW 44 2010

Meilenstein 4
Meilenstein 5
2013
2014
Project 17

Projects

displayed projects and contextual actions

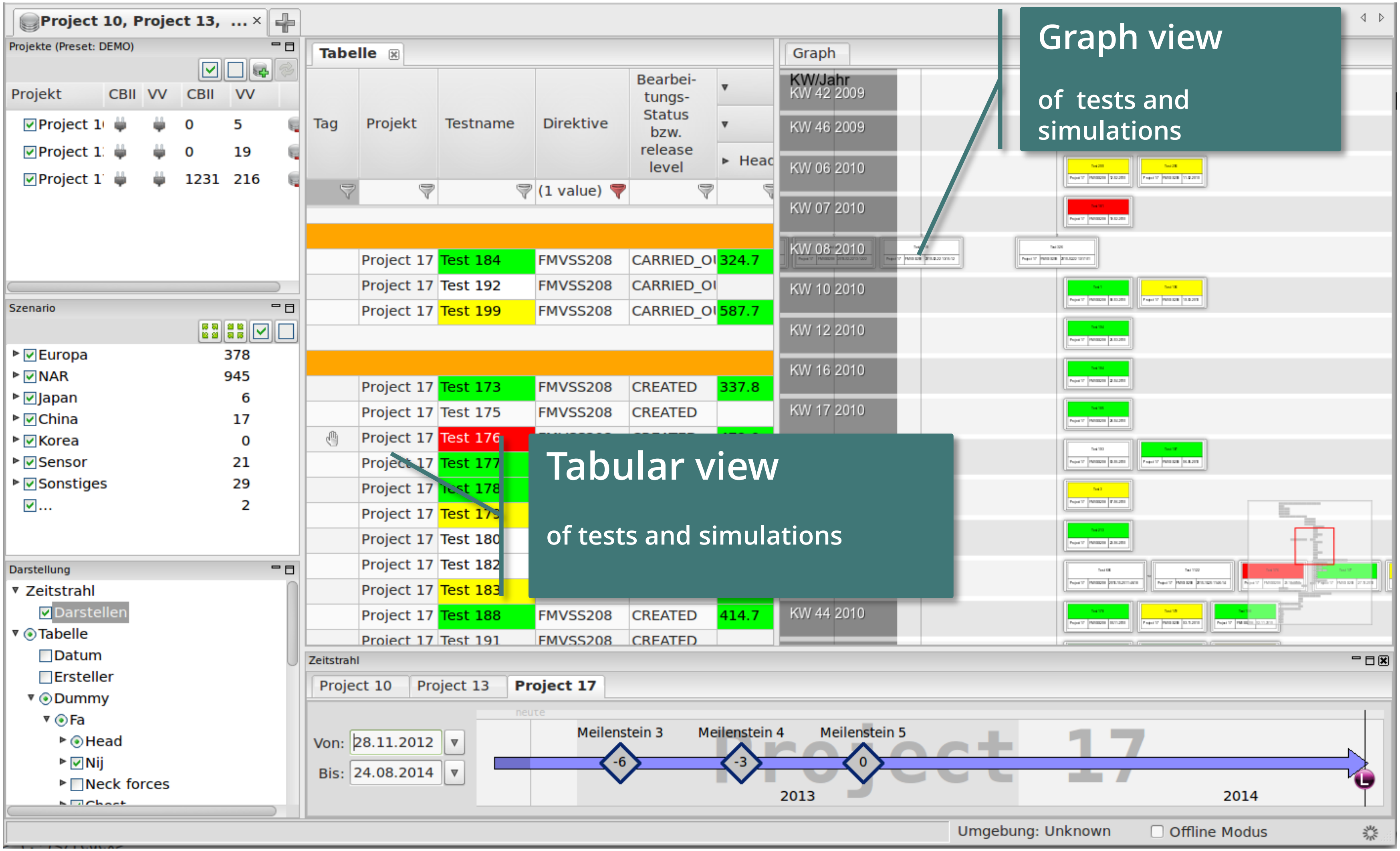
Selection / Filter

scenario based selection of tests and simulations

View settings

settings of table, graph and time line

CAViT: GUI Overview II



Graph view

of tests and simulations

Tabular view

of tests and simulations

Project 10, Project 13, …

Projekte (Preset: DEMO)

Projekt	CBII	VV	CBII	VV
☑ Project 1			0	5
☑ Project 1			0	19
☑ Project 1			1231	216

Szenario

☑ Europa	378
☑ NAR	945
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☑ Sensor	21
☑ Sonstiges	29
☑ …	2

Darstellung

- Zeitstrahl
  - ☑ Darstellen
- ● Tabelle
  - ☐ Datum
  - ☐ Ersteller
  - ● Dummy
    - ● Fa
      - ● Head
      - ☑ Nij
      - ☐ Neck forces

Tabelle

Tag	Projekt	Testname	Direktive	Bearbeitungs-Status bzw. release level	
			(1 value)		
	Project 17	Test 184	FMVSS208	CARRIED_OI	324.7
	Project 17	Test 192	FMVSS208	CARRIED_OI	
	Project 17	Test 199	FMVSS208	CARRIED_OI	587.7
	Project 17	Test 173	FMVSS208	CREATED	337.8
	Project 17	Test 175	FMVSS208	CREATED	
	Project 17	Test 176			
	Project 17	Test 177			
	Project 17	Test 178			
	Project 17	Test 179			
	Project 17	Test 180			
	Project 17	Test 182			
	Project 17	Test 183			
	Project 17	Test 188	FMVSS208	CREATED	414.7
	Project 17	Test 191	FMVSS208	CREATED	

Graph

KW/Jahr

KW 42 2009
KW 46 2009
KW 06 2010
KW 07 2010
KW 08 2010
KW 10 2010
KW 12 2010
KW 16 2010
KW 17 2010
KW 44 2010

Zeitstrahl

Project 10 | Project 13 | **Project 17**

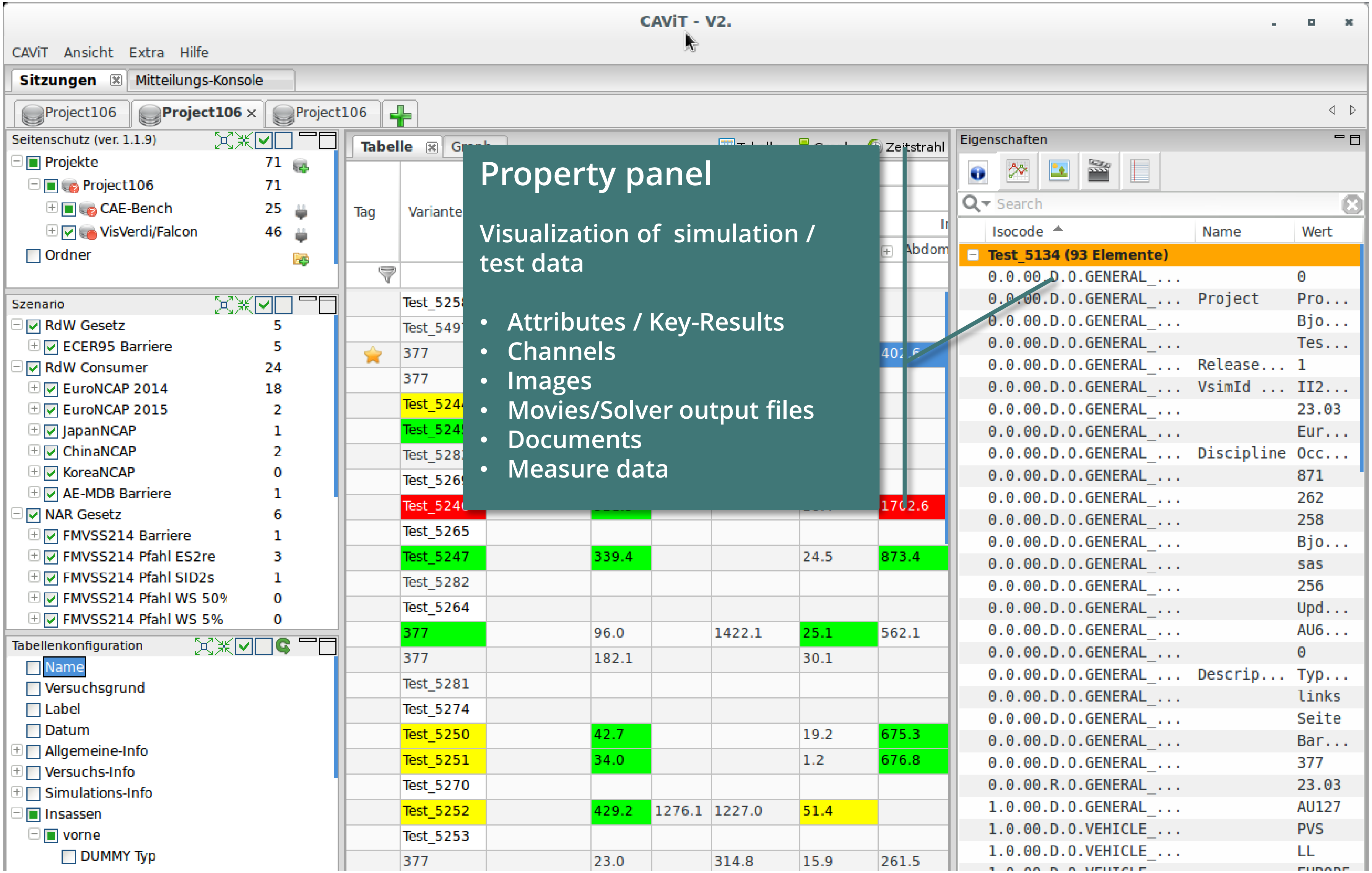
Von: 28.11.2012

Bis: 24.08.2014

Umgebung: Unknown

☐ Offline Modus

CAViT: GUI Overview III


CAViT - V2.
CAViT Ansicht Extra Hilfe
Sitzungen
Mitteilungs-Konsole
Project106
Project106
Project106
Seitenschutz (ver. 1.1.9)
Tabelle
Graph
Tabelle
Graph
Zeitstrahl
Eigenschaften
Search
Szenario
Tabellenkonfiguration

- ☐ Projekte 71
  - ☐ Project106 71
    - ☐ CAE-Bench 25
    - ☑ VisVerdi/Falcon 46
- ☐ Ordner

- ☑ RdW Gesetz 5
  - ☑ ECER95 Barriere 5
- ☑ RdW Consumer 24
  - ☑ EuroNCAP 2014 18
  - ☑ EuroNCAP 2015 2
  - ☑ JapanNCAP 1
  - ☑ ChinaNCAP 2
  - ☑ KoreaNCAP 0
  - ☑ AE-MDB Barriere 1
- ☑ NAR Gesetz 6
  - ☑ FMVSS214 Barriere 1
  - ☑ FMVSS214 Pfahl ES2re 3
  - ☑ FMVSS214 Pfahl SID2s 1
  - ☑ FMVSS214 Pfahl WS 50% 0
  - ☑ FMVSS214 Pfahl WS 5% 0

- ☐ Name
- ☐ Versuchsgrund
- ☐ Label
- ☐ Datum
- ☐ Allgemeine-Info
- ☐ Versuchs-Info
- ☐ Simulations-Info
- ☐ Insassen
  - ☐ vorne
    - ☐ DUMMY Typ

Tag	Variante						Abdom
	Test_525						
	Test_549						
★	377						402.6
	377						
	Test_524						
	Test_524						
	Test_528						
	Test_526						
	Test_524						1702.6
	Test_5265						
	Test_5247		339.4			24.5	873.4
	Test_5282						
	Test_5264						
	377		96.0		1422.1	25.1	562.1
	377		182.1			30.1	
	Test_5281						
	Test_5274						
	Test_5250		42.7			19.2	675.3
	Test_5251		34.0			1.2	676.8
	Test_5270						
	Test_5252		429.2	1276.1	1227.0	51.4	
	Test_5253						
	377		23.0		314.8	15.9	261.5

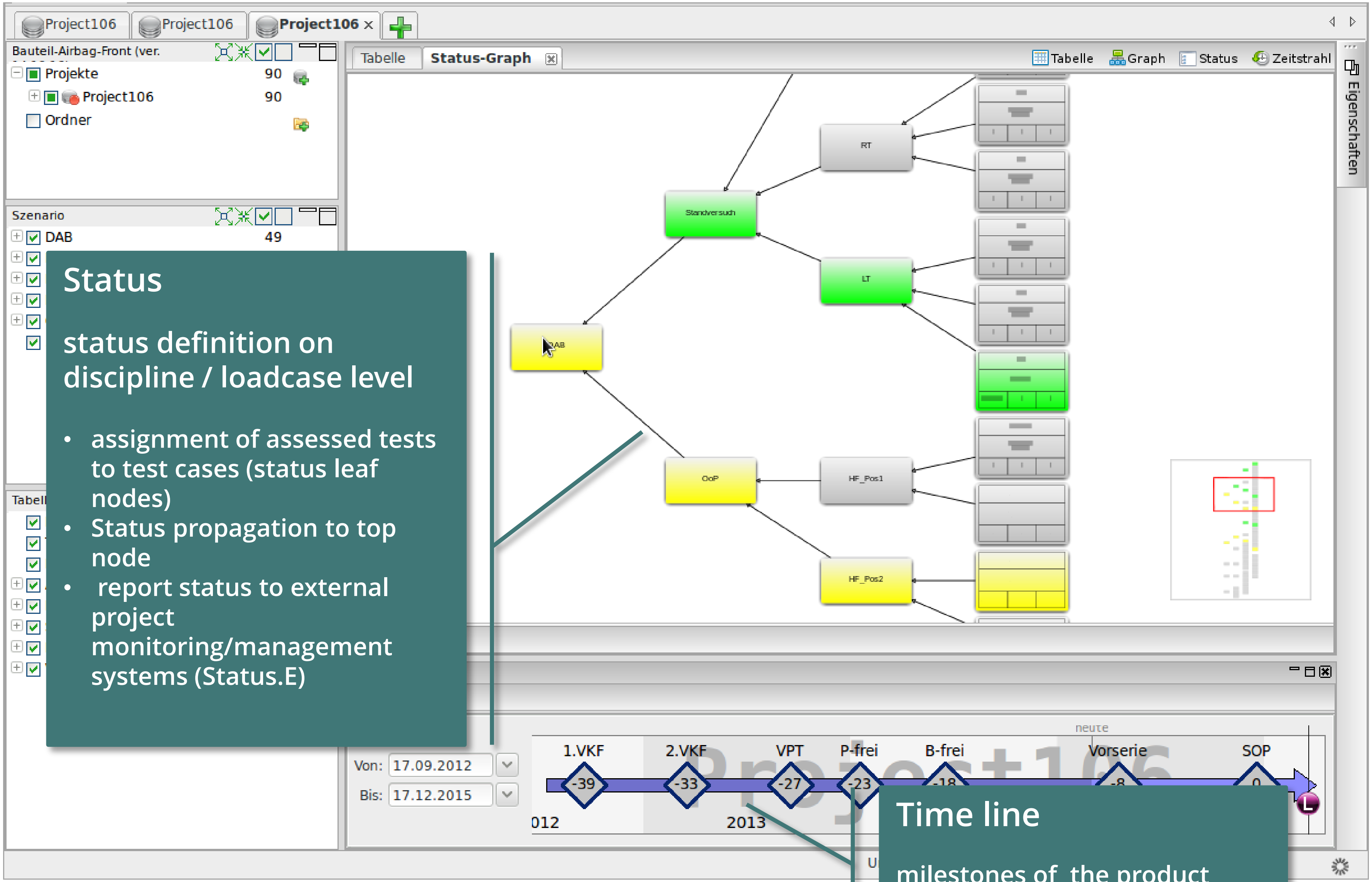
Isocode	Name	Wert
Test_5134 (93 Elemente)		
0.0.00.D.0.GENERAL_...		0
0.0.00.D.0.GENERAL_...	Project	Pro...
0.0.00.D.0.GENERAL_...		Bjo...
0.0.00.D.0.GENERAL_...		Tes...
0.0.00.D.0.GENERAL_...	Release...	1
0.0.00.D.0.GENERAL_...	VsimId ...	II2...
0.0.00.D.0.GENERAL_...		23.03
0.0.00.D.0.GENERAL_...		Eur...
0.0.00.D.0.GENERAL_...	Discipline	Occ...
0.0.00.D.0.GENERAL_...		871
0.0.00.D.0.GENERAL_...		262
0.0.00.D.0.GENERAL_...		258
0.0.00.D.0.GENERAL_...		Bjo...
0.0.00.D.0.GENERAL_...		sas
0.0.00.D.0.GENERAL_...		256
0.0.00.D.0.GENERAL_...		Upd...
0.0.00.D.0.GENERAL_...		AU6...
0.0.00.D.0.GENERAL_...		0
0.0.00.D.0.GENERAL_...	Descrip...	Typ...
0.0.00.D.0.GENERAL_...		links
0.0.00.D.0.GENERAL_...		Seite
0.0.00.D.0.GENERAL_...		Bar...
0.0.00.D.0.GENERAL_...		377
0.0.00.R.0.GENERAL_...		23.03
1.0.00.D.0.GENERAL_...		AU127
1.0.00.D.0.VEHICLE_...		PVS
1.0.00.D.0.VEHICLE_...		LL

Property panel

Visualization of simulation / test data

- Attributes / Key-Results
- Channels
- Images
- Movies/Solver output files
- Documents
- Measure data

CAViT: GUI Overview IV


Project106
Project106
Project106
Bauteil-Airbag-Front (ver.
Projekte 90
Project106 90
Ordner
Szenario
DAB 49
Tabell
Tabelle
Status-Graph
Tabelle
Graph
Status
Zeitstrahl
Eigenschaften
RT
Standversuch
LT
DAB
OoP
HF_Pos1
HF_Pos2
Von: 17.09.2012
Bis: 17.12.2015
heute
1.VKF
2.VKF
VPT
P-frei
B-frei
Vorserie
SOP
-39
-33
-27
-23
-18
-8
0
012
2013
Project106

Status

status definition on discipline / loadcase level

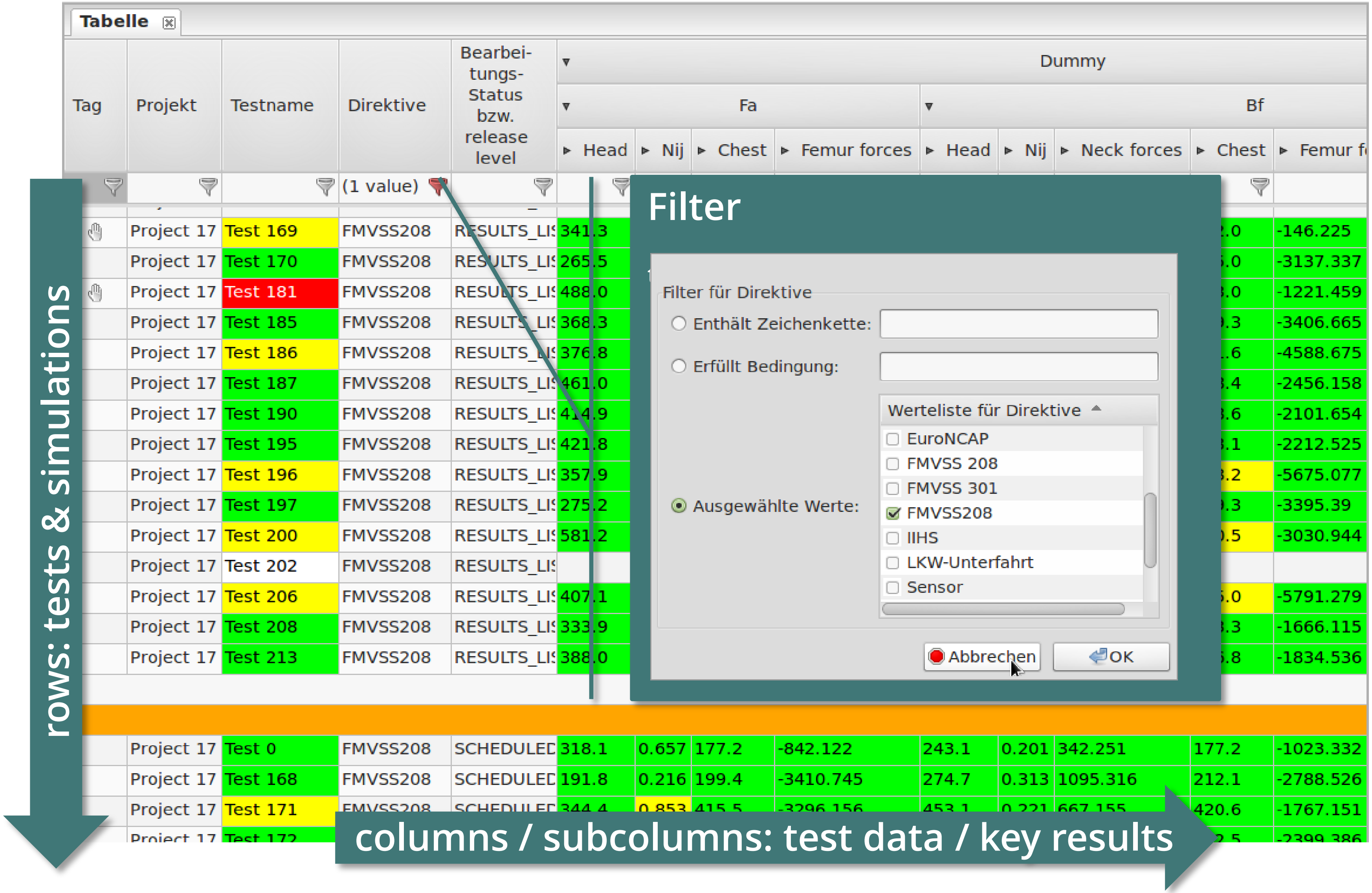
- assignment of assessed tests to test cases (status leaf nodes)
- Status propagation to top node
- report status to external project monitoring/management systems (Status.E)

Time line

milestones of the product development plan

Live Demo

CAViT: Tabular view



Tag	Projekt	Testname	Direktive	Bearbeitungs-Status bzw. release level	Dummy								
					Fa				Bf				
					Head	Nij	Chest	Femur forces	Head	Nij	Neck forces	Chest	Femur f
			(1 value)										
	Project 17	Test 169	FMVSS208	RESULTS_LI	341.3							.0	-146.225
	Project 17	Test 170	FMVSS208	RESULTS_LI	265.5							.0	-3137.337
	Project 17	Test 181	FMVSS208	RESULTS_LI	488.0							.0	-1221.459
	Project 17	Test 185	FMVSS208	RESULTS_LI	368.3							.3	-3406.665
	Project 17	Test 186	FMVSS208	RESULTS_LI	376.8							.6	-4588.675
	Project 17	Test 187	FMVSS208	RESULTS_LI	461.0							.4	-2456.158
	Project 17	Test 190	FMVSS208	RESULTS_LI	414.9							.6	-2101.654
	Project 17	Test 195	FMVSS208	RESULTS_LI	421.8							.1	-2212.525
	Project 17	Test 196	FMVSS208	RESULTS_LI	357.9							.2	-5675.077
	Project 17	Test 197	FMVSS208	RESULTS_LI	275.2							.3	-3395.39
	Project 17	Test 200	FMVSS208	RESULTS_LI	581.2							.5	-3030.944
	Project 17	Test 202	FMVSS208	RESULTS_LI									
	Project 17	Test 206	FMVSS208	RESULTS_LI	407.1							.0	-5791.279
	Project 17	Test 208	FMVSS208	RESULTS_LI	333.9							.3	-1666.115
	Project 17	Test 213	FMVSS208	RESULTS_LI	388.0							.8	-1834.536
	Project 17	Test 0	FMVSS208	SCHEDULED	318.1	0.657	177.2	-842.122	243.1	0.201	342.251	177.2	-1023.332
	Project 17	Test 168	FMVSS208	SCHEDULED	191.8	0.216	199.4	-3410.745	274.7	0.313	1095.316	212.1	-2788.526
	Project 17	Test 171	FMVSS208	SCHEDULED	344.4	0.853	415.5	-3296.156	453.1	0.221	667.155	420.6	-1767.151
	Project 17	Test 172										2.5	-2399.386

Filter

Filter für Direktive

○ Enthält Zeichenkette:

○ Erfüllt Bedingung:

● Ausgewählte Werte:

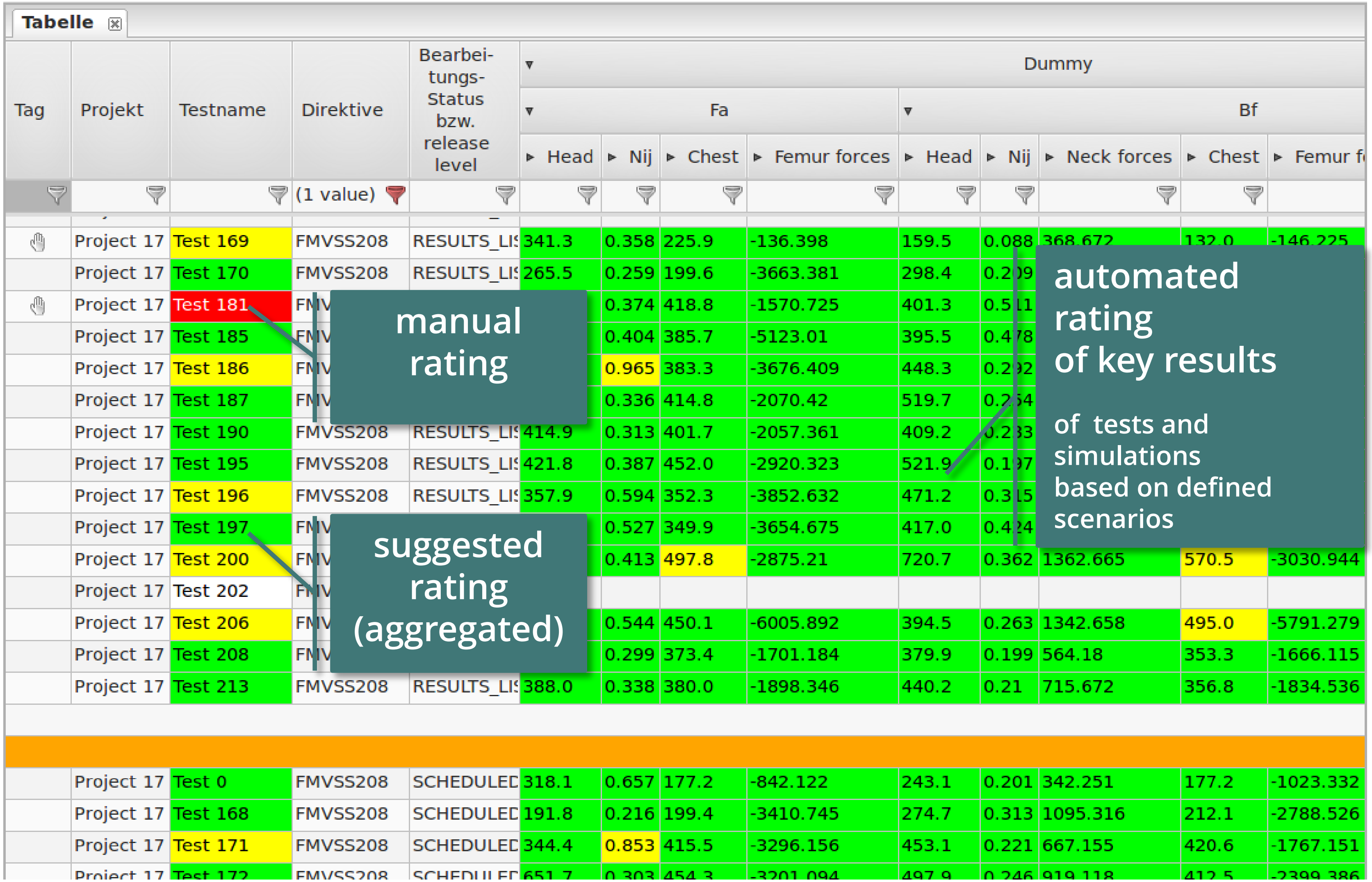
Werteliste für Direktive

- ☐ EuroNCAP
- ☐ FMVSS 208
- ☐ FMVSS 301
- ☑ FMVSS208
- ☐ IIHS
- ☐ LKW-Unterfahrt
- ☐ Sensor

rows: tests & simulations

columns / subcolumns: test data / key results

CAViT: Tabular view



Tabelle

Tag	Projekt	Testname	Direktive	Bearbeitungs-Status bzw. release level	Dummy								
					Fa				Bf				
					Head	Nij	Chest	Femur forces	Head	Nij	Neck forces	Chest	Femur f
			(1 value)										
✋	Project 17	Test 169	FMVSS208	RESULTS_LIS	341.3	0.358	225.9	-136.398	159.5	0.088	368.672	132.0	-146.225
	Project 17	Test 170	FMVSS208	RESULTS_LIS	265.5	0.259	199.6	-3663.381	298.4	0.209	[illegible]	[illegible]	[illegible]
✋	Project 17	Test 181	FMV	[illegible]	[illegible]	0.374	418.8	-1570.725	401.3	0.511	[illegible]	[illegible]	[illegible]
	Project 17	Test 185	FMV	[illegible]	[illegible]	0.404	385.7	-5123.01	395.5	0.478	[illegible]	[illegible]	[illegible]
	Project 17	Test 186	FMV	[illegible]	[illegible]	0.965	383.3	-3676.409	448.3	0.292	[illegible]	[illegible]	[illegible]
	Project 17	Test 187	FMV	[illegible]	[illegible]	0.336	414.8	-2070.42	519.7	0.254	[illegible]	[illegible]	[illegible]
	Project 17	Test 190	FMVSS208	RESULTS_LIS	414.9	0.313	401.7	-2057.361	409.2	0.233	[illegible]	[illegible]	[illegible]
	Project 17	Test 195	FMVSS208	RESULTS_LIS	421.8	0.387	452.0	-2920.323	521.9	0.197	[illegible]	[illegible]	[illegible]
	Project 17	Test 196	FMVSS208	RESULTS_LIS	357.9	0.594	352.3	-3852.632	471.2	0.315	[illegible]	[illegible]	[illegible]
	Project 17	Test 197	FMV	[illegible]	[illegible]	0.527	349.9	-3654.675	417.0	0.424	[illegible]	[illegible]	[illegible]
	Project 17	Test 200	FMV	[illegible]	[illegible]	0.413	497.8	-2875.21	720.7	0.362	1362.665	570.5	-3030.944
	Project 17	Test 202	FMV	[illegible]	[illegible]								
	Project 17	Test 206	FMV	[illegible]	[illegible]	0.544	450.1	-6005.892	394.5	0.263	1342.658	495.0	-5791.279
	Project 17	Test 208	FMV	[illegible]	[illegible]	0.299	373.4	-1701.184	379.9	0.199	564.18	353.3	-1666.115
	Project 17	Test 213	FMVSS208	RESULTS_LIS	388.0	0.338	380.0	-1898.346	440.2	0.21	715.672	356.8	-1834.536
	Project 17	Test 0	FMVSS208	SCHEDULED	318.1	0.657	177.2	-842.122	243.1	0.201	342.251	177.2	-1023.332
	Project 17	Test 168	FMVSS208	SCHEDULED	191.8	0.216	199.4	-3410.745	274.7	0.313	1095.316	212.1	-2788.526
	Project 17	Test 171	FMVSS208	SCHEDULED	344.4	0.853	415.5	-3296.156	453.1	0.221	667.155	420.6	-1767.151
	Project 17	Test 172	FMVSS208	SCHEDULED	651.7	0.303	454.3	-3201.094	497.9	0.246	919.118	412.5	-2399.386

manual rating

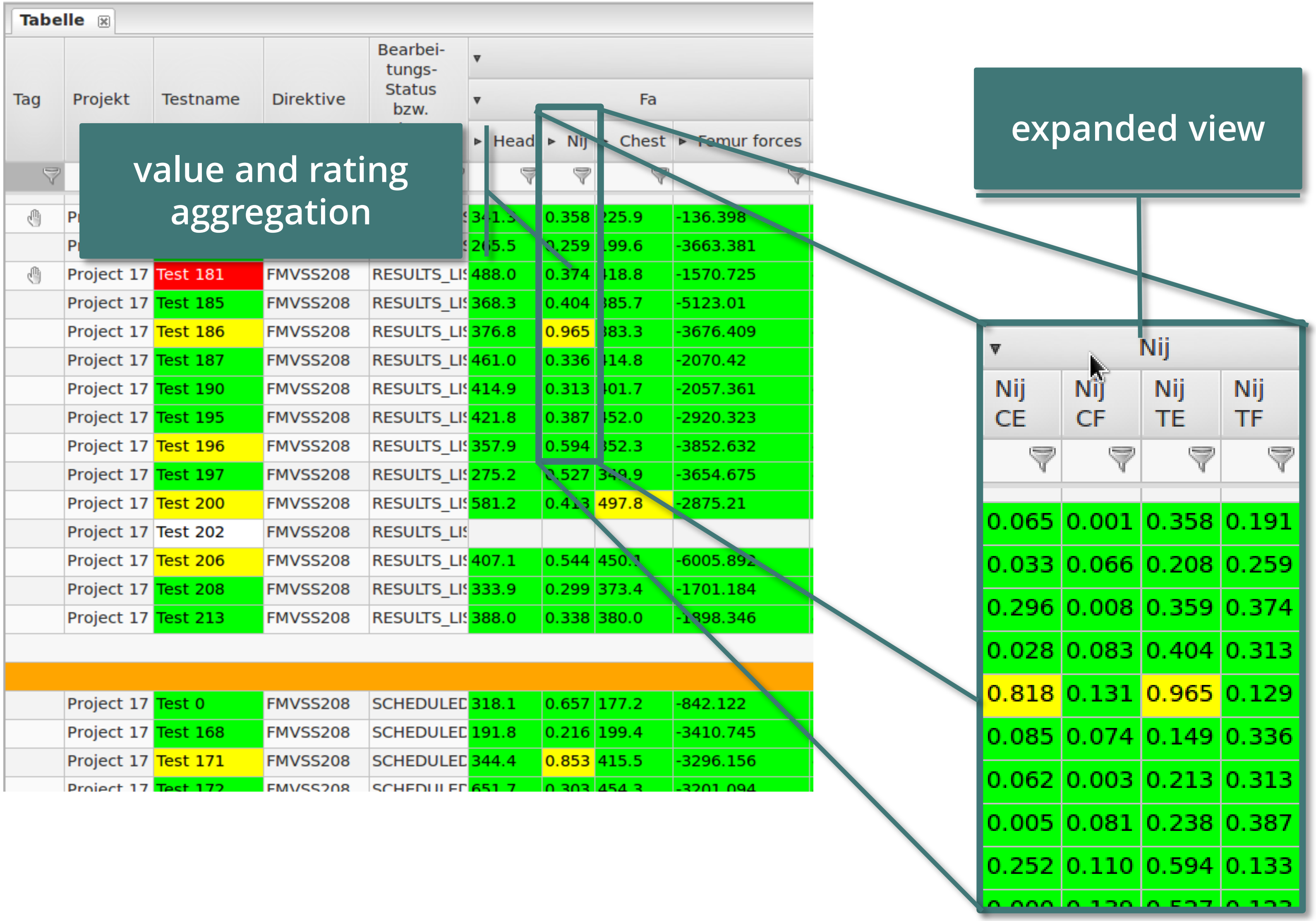
automated rating of key results

of tests and simulations based on defined scenarios

suggested rating (aggregated)

SCALE

CAViT: Tabular view



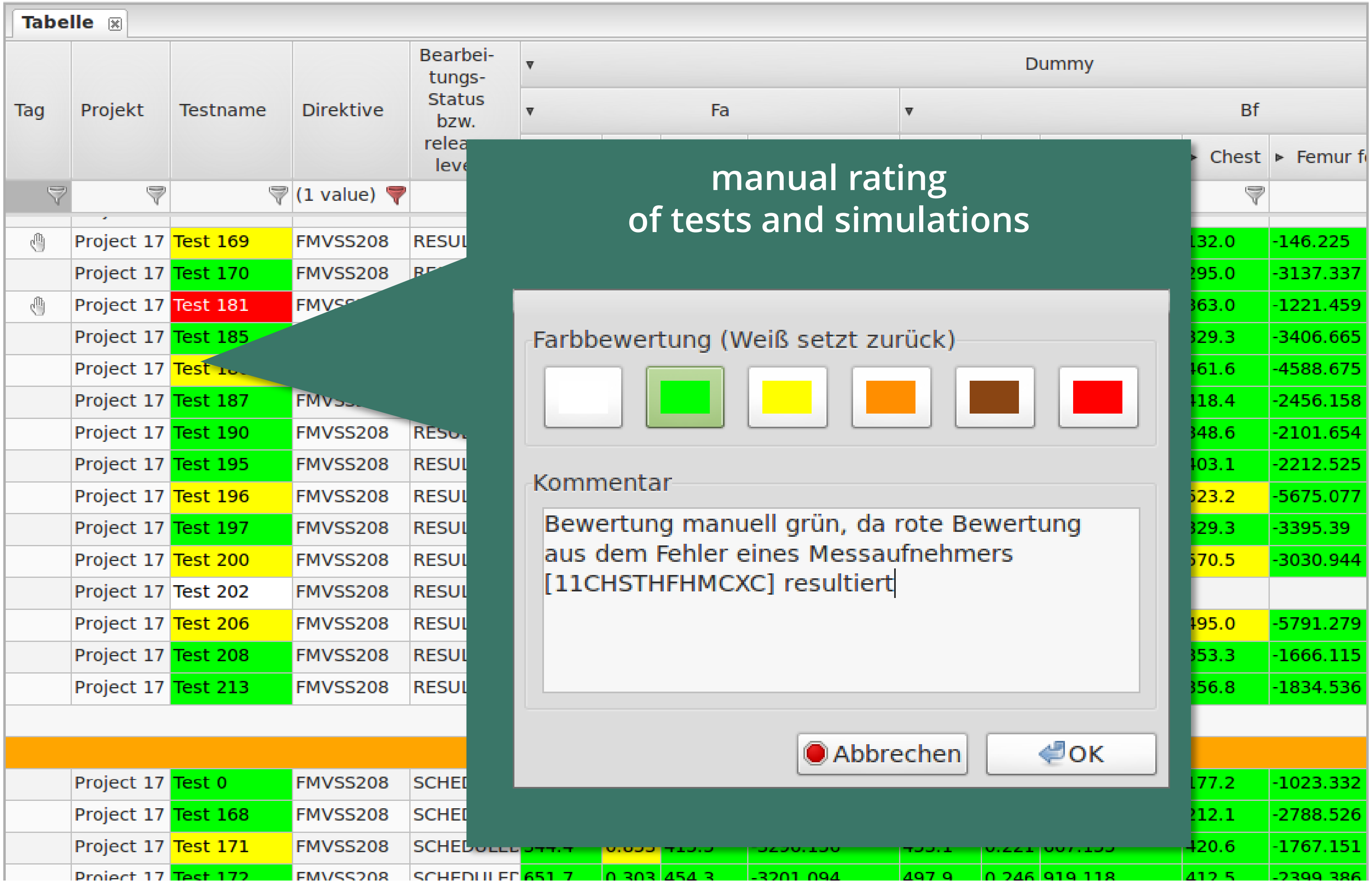
value and rating aggregation

expanded view

Tag	Projekt	Testname	Direktive	Bearbei-tungs-Status bzw.	Fa			
					Head	Nij	Chest	Femur forces
✋	Pr	[illegible]	[illegible]	[illegible]	341.3	0.358	225.9	-136.398
	Pr	[illegible]	[illegible]	[illegible]	265.5	0.259	199.6	-3663.381
✋	Project 17	Test 181	FMVSS208	RESULTS_LI	488.0	0.374	418.8	-1570.725
	Project 17	Test 185	FMVSS208	RESULTS_LI	368.3	0.404	385.7	-5123.01
	Project 17	Test 186	FMVSS208	RESULTS_LI	376.8	0.965	383.3	-3676.409
	Project 17	Test 187	FMVSS208	RESULTS_LI	461.0	0.336	414.8	-2070.42
	Project 17	Test 190	FMVSS208	RESULTS_LI	414.9	0.313	401.7	-2057.361
	Project 17	Test 195	FMVSS208	RESULTS_LI	421.8	0.387	452.0	-2920.323
	Project 17	Test 196	FMVSS208	RESULTS_LI	357.9	0.594	352.3	-3852.632
	Project 17	Test 197	FMVSS208	RESULTS_LI	275.2	0.527	349.9	-3654.675
	Project 17	Test 200	FMVSS208	RESULTS_LI	581.2	0.413	497.8	-2875.21
	Project 17	Test 202	FMVSS208	RESULTS_LI				
	Project 17	Test 206	FMVSS208	RESULTS_LI	407.1	0.544	450.1	-6005.892
	Project 17	Test 208	FMVSS208	RESULTS_LI	333.9	0.299	373.4	-1701.184
	Project 17	Test 213	FMVSS208	RESULTS_LI	388.0	0.338	380.0	-1898.346
	Project 17	Test 0	FMVSS208	SCHEDULE	318.1	0.657	177.2	-842.122
	Project 17	Test 168	FMVSS208	SCHEDULE	191.8	0.216	199.4	-3410.745
	Project 17	Test 171	FMVSS208	SCHEDULE	344.4	0.853	415.5	-3296.156
	Project 17	Test 172	FMVSS208	SCHEDULE	651.7	0.303	454.3	-3201.094

Nij			
Nij CE	Nij CF	Nij TE	Nij TF
0.065	0.001	0.358	0.191
0.033	0.066	0.208	0.259
0.296	0.008	0.359	0.374
0.028	0.083	0.404	0.313
0.818	0.131	0.965	0.129
0.085	0.074	0.149	0.336
0.062	0.003	0.213	0.313
0.005	0.081	0.238	0.387
0.252	0.110	0.594	0.133

CAViT: Tabular view



manual rating
of tests and simulations

Tag	Projekt	Testname	Direktive	Bearbei-tungs-Status bzw. relea leve	Chest	Femur f
✋	Project 17	Test 169	FMVSS208	RESUL	132.0	-146.225
	Project 17	Test 170	FMVSS208	RE	295.0	-3137.337
✋	Project 17	Test 181	FMVS		363.0	-1221.459
	Project 17	Test 185			329.3	-3406.665
	Project 17	Test 18			461.6	-4588.675
	Project 17	Test 187	FMV		418.4	-2456.158
	Project 17	Test 190	FMVSS208	RESU	348.6	-2101.654
	Project 17	Test 195	FMVSS208	RESUL	403.1	-2212.525
	Project 17	Test 196	FMVSS208	RESUL	523.2	-5675.077
	Project 17	Test 197	FMVSS208	RESUL	329.3	-3395.39
	Project 17	Test 200	FMVSS208	RESUL	570.5	-3030.944
	Project 17	Test 202	FMVSS208	RESUL		
	Project 17	Test 206	FMVSS208	RESUL	495.0	-5791.279
	Project 17	Test 208	FMVSS208	RESUL	353.3	-1666.115
	Project 17	Test 213	FMVSS208	RESUL	356.8	-1834.536
	Project 17	Test 0	FMVSS208	SCHED	177.2	-1023.332
	Project 17	Test 168	FMVSS208	SCHED	212.1	-2788.526
	Project 17	Test 171	FMVSS208	SCHEDULE	420.6	-1767.151
	Project 17	Test 172	FMVSS208	SCHEDULED	412.5	-2399.386

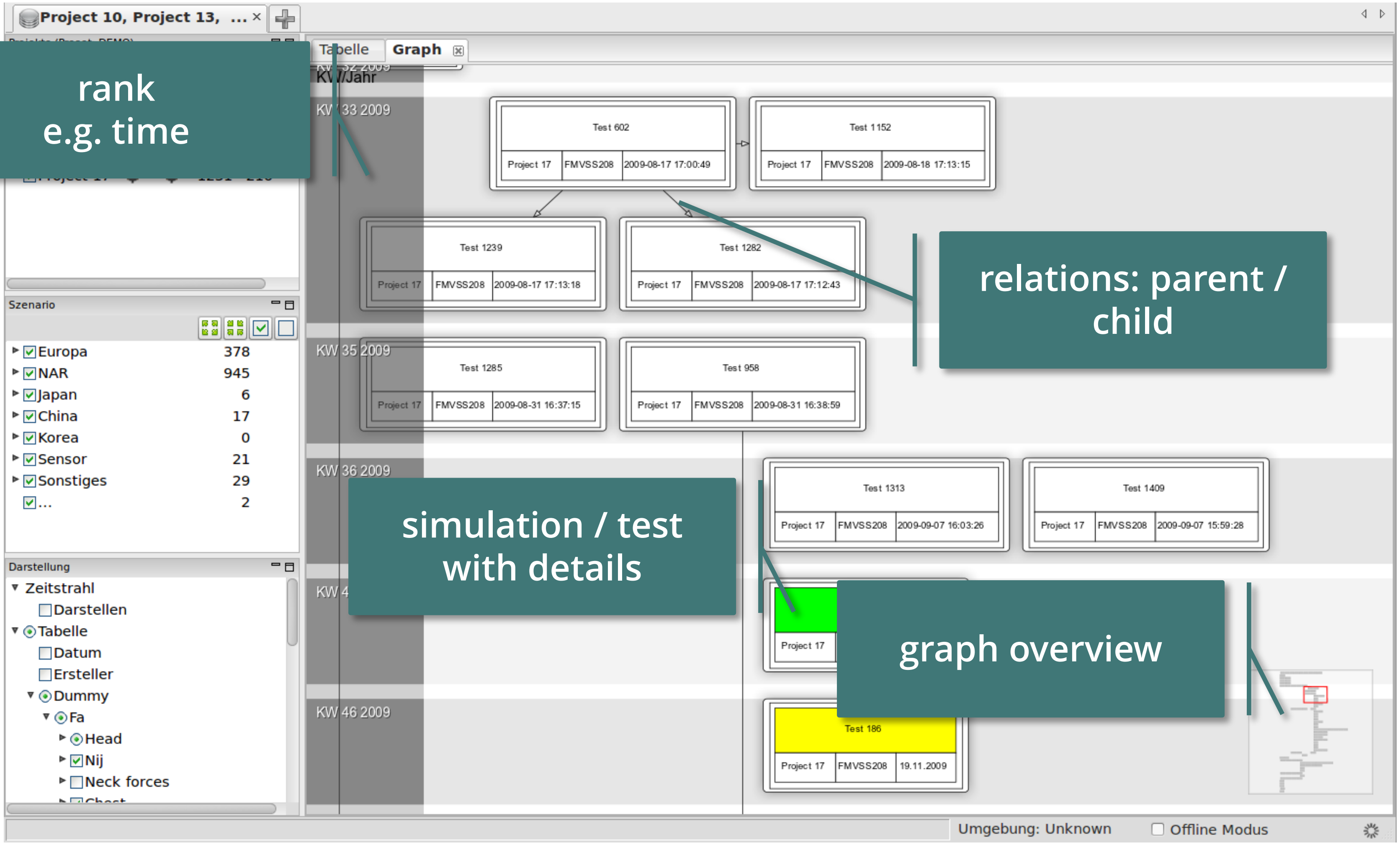
Farbbewertung (Weiß setzt zurück)

⬜ 🟩 🟨 🟧 🟫 🟥

Kommentar

Bewertung manuell grün, da rote Bewertung aus dem Fehler eines Messaufnehmers [11CHSTHFHMCXC] resultiert

CAViT: Graph view


Project 10, Project 13, ...
Tabelle
Graph
KW/Jahr
KW 33 2009
KW 35 2009
KW 36 2009
KW 4
KW 46 2009
Szenario
Darstellung
Umgebung: Unknown
☐ Offline Modus

rank
e.g. time

relations: parent / child

simulation / test with details

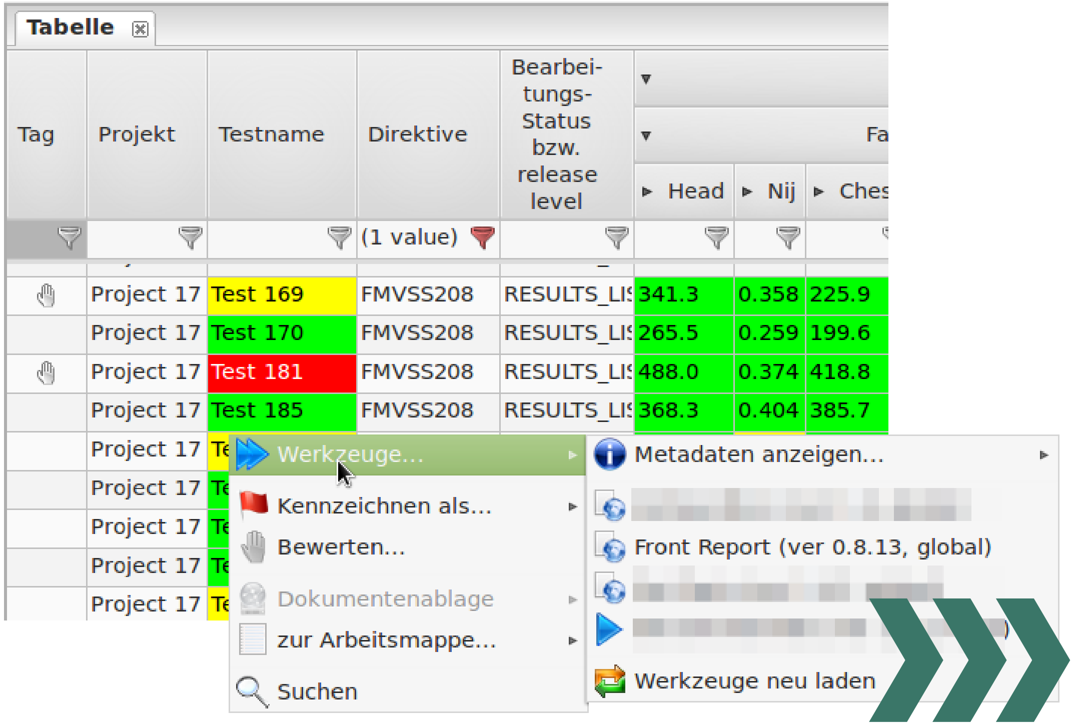
graph overview

Szenario	
☑ Europa	378
☑ NAR	945
☑ Japan	6
☑ China	17
☑ Korea	0
☑ Sensor	21
☑ Sonstiges	29
☑ ...	2

Darstellung
- Zeitstrahl
  - ☐ Darstellen
- ● Tabelle
  - ☐ Datum
  - ☐ Ersteller
  - ● Dummy
    - ● Fa
      - ● Head
      - ☑ Nij
      - ☐ Neck forces

Test	Project	Standard	Date
Test 602	Project 17	FMVSS208	2009-08-17 17:00:49
Test 1152	Project 17	FMVSS208	2009-08-18 17:13:15
Test 1239	Project 17	FMVSS208	2009-08-17 17:13:18
Test 1282	Project 17	FMVSS208	2009-08-17 17:12:43
Test 1285	Project 17	FMVSS208	2009-08-31 16:37:15
Test 958	Project 17	FMVSS208	2009-08-31 16:38:59
Test 1313	Project 17	FMVSS208	2009-09-07 16:03:26
Test 1409	Project 17	FMVSS208	2009-09-07 15:59:28
	Project 17		
Test 186	Project 17	FMVSS208	19.11.2009

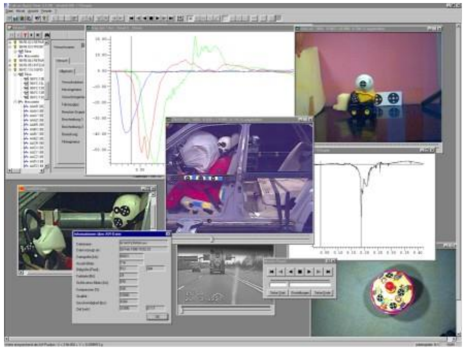
CAViT: Plugin / Scripting Interface



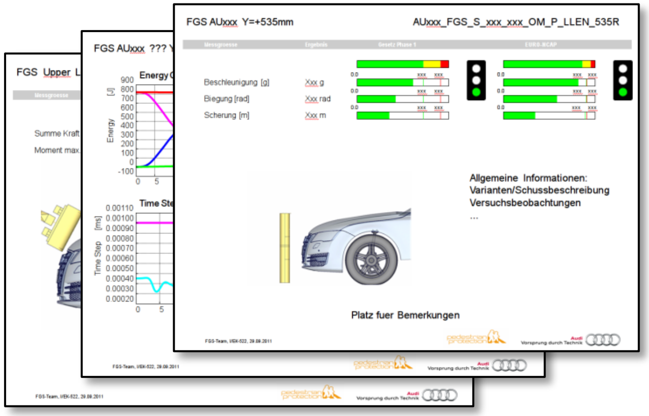
Tag	Projekt	Testname	Direktive	Bearbei-tungs-Status bzw. release level	Head	Nij	Ches
			(1 value)				
✋	Project 17	Test 169	FMVSS208	RESULTS_LI	341.3	0.358	225.9
	Project 17	Test 170	FMVSS208	RESULTS_LI	265.5	0.259	199.6
✋	Project 17	Test 181	FMVSS208	RESULTS_LI	488.0	0.374	418.8
	Project 17	Test 185	FMVSS208	RESULTS_LI	368.3	0.404	385.7
	Project 17	Te					
	Project 17	Te					
	Project 17	Te					
	Project 17	Te					
	Project 17	Te					

Werkzeuge...
Kennzeichnen als...
Bewerten...
Dokumentenablage
zur Arbeitsmappe...
Suchen
Metadaten anzeigen...
[redacted]
Front Report (ver 0.8.13, global)
[redacted]
[redacted]
Werkzeuge neu laden

[visual compare in viewer]



[PDF/PPTs reports]


FGS AUxxx Y=+535mm
AUxxx_FGS_S_xxx_xxx_OM_P_LLEN_535R
Beschleunigung [g]
Biegung [rad]
Scherung [m]
Allgemeine Informationen:
Varianten/Schussbeschreibung
Versuchsbeobachtungen
Platz fuer Bemerkungen
FGS AUxxx ???
Energy
Time Step
FGS Upper
Summe Kraft
Moment max

- integration of post processors, third party tools
- report generation
- plugin concept for scripts; python (interpreter is built in) or any other script language may be used

CAViT: Summary

Integration of CAT and CAE post data

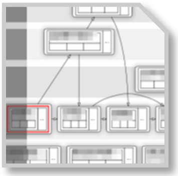
tabular and graph view on both data sets
views, rating scheme, categorization can be configured in any almost any detail

Assisted Assessment of Tests and Simulation

scenario based rating of individual key results and rating recommendation of the test / simulation

Plugin Interface – Reporting & Process automatization

integration of third party tools, generation of reports or processes automation of any kind



Versioning & Offline Work

user generated data are assigned to a particular point in time, can be tracked, held for archiving purposes and are available offline

Status

supports status definition on discipline / loadcase level
status report interface to Status.E

Vielen Dank!

SCALE