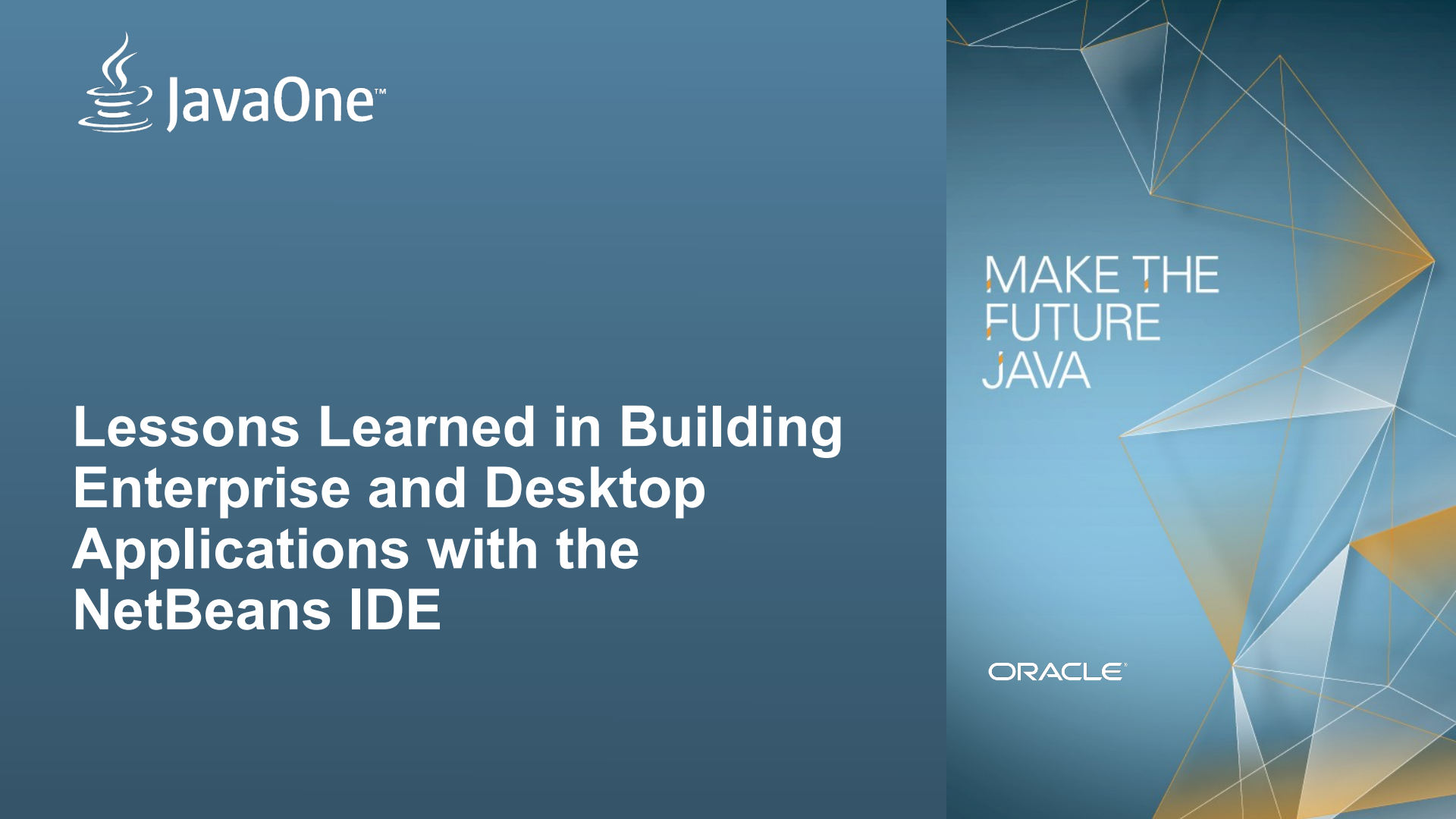

JavaOne™



Lessons Learned in Building Enterprise and Desktop Applications with the NetBeans IDE

Program Agenda

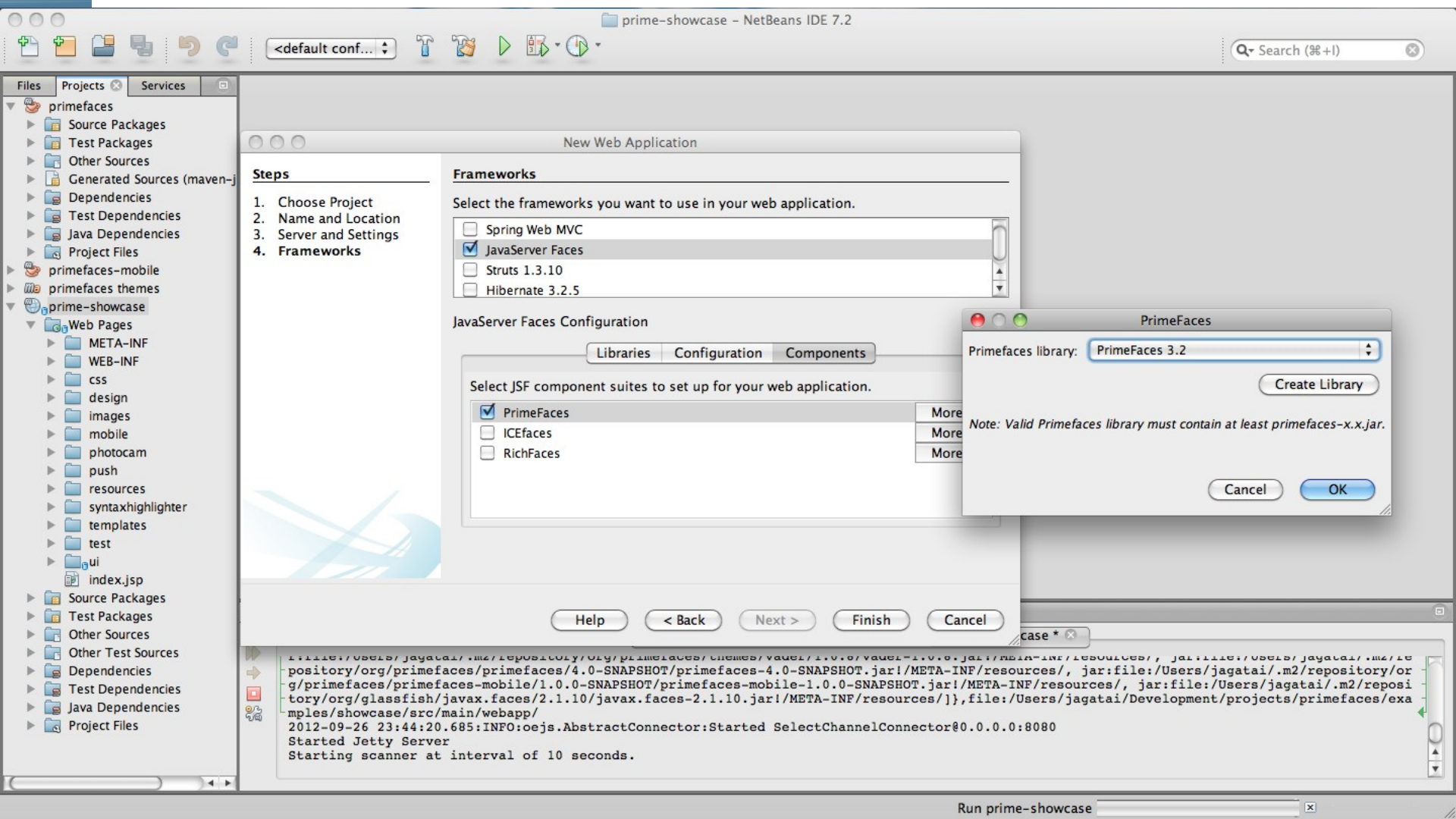
- Introduction
- Showcases
  - PrimeFaces
  - NATO Programming Centre
  - ORKA

Cagatay Civici (PrimeFaces)

- JavaServer Faces Expert Group Member
- Apache MyFaces PMC Member
- Speaker, Author, Reviewer, Consultant, Trainer
- Founder and Lead Developer of PrimeFaces

PrimeFaces

- JavaServer Faces Component Suite
- Open Source under Apache License
- 100+ Rich set of components
- Themes, Push, Mobile Addons
- Large and Active User Community


prime-showcase - NetBeans IDE 7.2
<default conf...
Search (⌘+I)
Files
Projects
Services
primefaces
Source Packages
Test Packages
Other Sources
Generated Sources (maven-j
Dependencies
Test Dependencies
Java Dependencies
Project Files
primefaces-mobile
primefaces themes
prime-showcase
Web Pages
META-INF
WEB-INF
css
design
images
mobile
photocam
push
resources
syntaxhighlighter
templates
test
ui
index.jsp
Source Packages
Test Packages
Other Sources
Other Test Sources
Dependencies
Test Dependencies
Java Dependencies
Project Files
New Web Application
Steps
1. Choose Project
2. Name and Location
3. Server and Settings
4. Frameworks
Frameworks
Select the frameworks you want to use in your web application.
Spring Web MVC
JavaServer Faces
Struts 1.3.10
Hibernate 3.2.5
JavaServer Faces Configuration
Libraries
Configuration
Components
Select JSF component suites to set up for your web application.
PrimeFaces
More
ICEfaces
More
RichFaces
More
Help
< Back
Next >
Finish
Cancel
PrimeFaces
Primefaces library:
PrimeFaces 3.2
Create Library
Note: Valid Primefaces library must contain at least primefaces-x.x.jar.
Cancel
OK
pository/org/primefaces/primefaces/4.0-SNAPSHOT/primefaces-4.0-SNAPSHOT.jar!/META-INF/resources/, jar:file:/Users/jagatai/.m2/repository/org/primefaces/primefaces-mobile/1.0.0-SNAPSHOT/primefaces-mobile-1.0.0-SNAPSHOT.jar!/META-INF/resources/, jar:file:/Users/jagatai/.m2/repository/org/glassfish/javax.faces/2.1.10/javax.faces-2.1.10.jar!/META-INF/resources/]},file:/Users/jagatai/Development/projects/primefaces/examples/showcase/src/main/webapp/
2012-09-26 23:44:20.685:INFO:oejs.AbstractConnector:Started SelectChannelConnector@0.0.0.0:8080
Started Jetty Server
Starting scanner at interval of 10 seconds.
Run prime-showcase

How Prime Team Uses NetBeans IDE

- Maven Integration with Customized Project Actions
- Java EE and JSF Tooling
  - Convert to Composite Component
  - Generate Forms and DataTable from Entities
  - EL Code Completion
  - Templating Features
- Testing
- Profiler
- Debugger

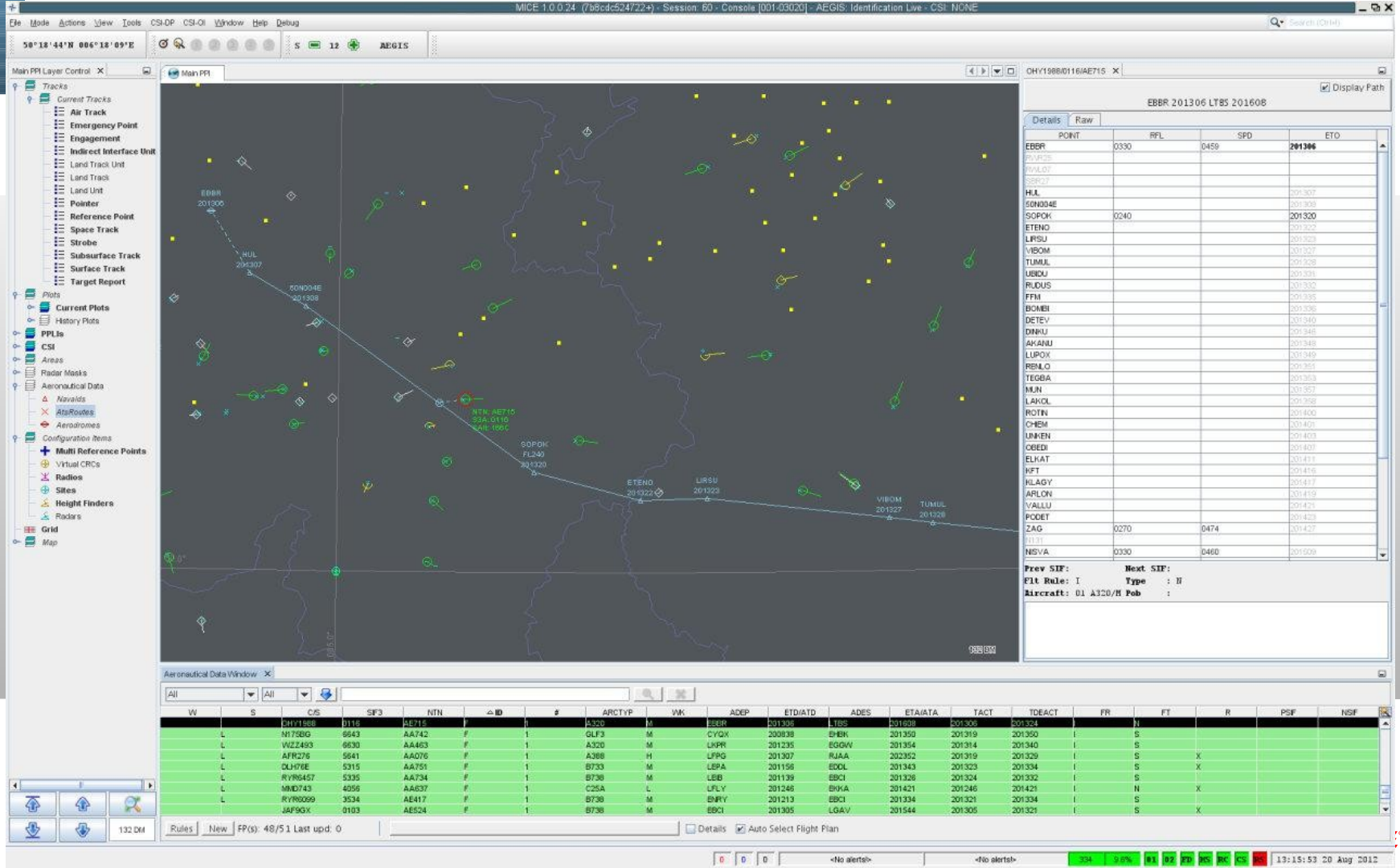
Angelo D'Agnano
(NATO Programming Center)

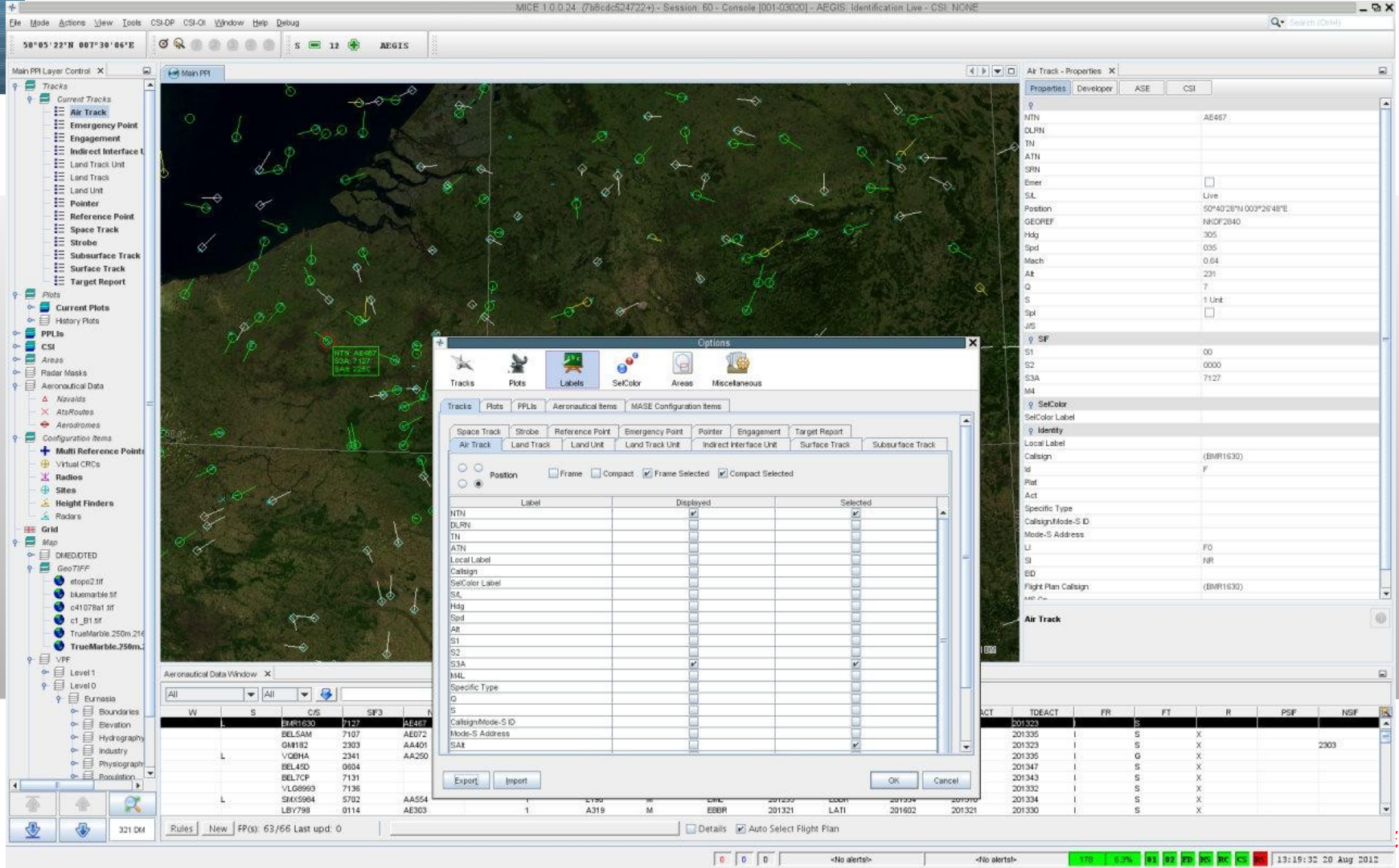
- Worked in the Italian Air Force in Air Defence for 10 years
- Joined NATO Programming Centre in 2001
- Worked on several projects in the Air Defence field
- In 2008 appointed as Software Architect for the development of MICE

MICE

MICE (MASE Integrated Console Environment) is the platform at the heart of the newly developed MASE console. The MICE ambition is to be a rich-client platform for Air Defence Applications.

Developed using a framework allowing to support the SIL1 claim in accordance to the IEC 61508 standard.


MICE 1.0.0.24 (7b8cdc524722+) - Session: 60 - Console [001-03020] - AEGIS: Identification Live - CSI: NONE
File Mode Actions View Tools CSI-DP CSI-OI Window Help Debug
50°18'44"N 006°18'09"E
AEGIS
Main PPI Layer Control
Tracks
Current Tracks
Air Track
Emergency Point
Engagement
Indirect Interface Unit
Land Track Unit
Land Track
Land Unit
Pointer
Reference Point
Space Track
Strobe
Subsurface Track
Surface Track
Target Report
Plots
Current Plots
History Plots
PPIIs
CSI
Areas
Radar Masks
Aeronautical Data
Navaids
AtsRoutes
Aerodromes
Configuration Items
Multi Reference Points
Virtual CRCs
Radios
Sites
Height Finders
Radars
Grid
Map
Main PPI
EBBR 201306
HUL 201307
50N004E 201308
NTN AE715
33A 0116
FAIR 166C
SOPOK FL240 201320
ETENO 201322
LIRSU 201323
VIBOM 201327
TUMUL 201328
132 DM
OHY1988/0116/AE715
Display Path
EBBR 201306 LTBS 201608
Details
Raw
POINT RFL SPD ETO
EBBR 0330 0459 201306
25VR25
29WL07
33R27
HUL 201307
50N004E 201308
SOPOK 0240 201320
ETENO 201322
LIRSU 201323
VIBOM 201327
TUMUL 201328
UBIDU 201331
RUDUS 201332
FFM 201335
BOMBI 201336
DETEV 201340
DINKU 201346
AKANU 201348
LUPOX 201349
RENLO 201351
TEGBA 201353
MUN 201357
LAKOL 201358
ROTIN 201400
CHEM 201401
UNKEN 201403
OBEDI 201407
ELKAT 201411
KFT 201416
KLAGY 201417
ARLON 201419
VALLU 201421
PODET 201423
ZAG 0270 0474 201427
NISVA 0330 0460 201509
Prev SIF:
Next SIF:
Flt Rule: I
Type : N
Aircraft: 01 A320/M Pob :
Aeronautical Data Window
W S C/S SIF3 NTN ID # ARCTYP WK ADEP ETD/ATD ADES ETA/ATA TACT TDEACT FR FT R PSIF NSIF
OHY1988 0116 AE715 A320 M EBBR 201306 LTBS 201608 201306 201324 N
L N175BG 6643 AA742 GLF3 M CYQX 200838 EHBK 201350 201319 201350 I S
L WZZ4393 6630 AA463 A320 M LKPR 201235 EGGW 201354 201314 201340 I S
L AFR276 5641 AA076 A388 H LFPG 201307 RJAA 202352 201319 201329 I S X
L DLH76E 5315 AA751 B733 M LEPA 201156 EDDL 201343 201323 201334 I S X
L RYR6457 5335 AA734 B738 M LEIB 201139 EBCI 201328 201324 201332 I S
L MMD743 4056 AA637 C25A L LFLY 201246 BKKA 201421 201246 201421 I N X
L RYR8099 3534 AE417 B738 M EMRY 201213 EBCI 201334 201321 201334 I S
JAF9GX 0103 AE524 B738 M EBCI 201305 LGAV 201544 201305 201321 I S X
Rules New FP(S): 48/5 1 Last upd: 0
Details
Auto Select Flight Plan
<No alerts>
<No alerts>
13:15:53 20 Aug 2012


MICE 1.0.0.24 (7b8cdc524722+) - Session: 60 - Console [001-03020] - AEGIS: Identification Live - CSI: NONE
File Mode Actions View Tools CSI-DP CSI-OI Window Help Debug
50°05'22"N 007°30'06"E
AEGIS
Main PPI Layer Control
Tracks
Current Tracks
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Radar Masks
Aeronautical Data
Navaids
AtsRoutes
Aerodromes
Configuration Items
Multi Reference Points
Virtual CRCs
Radios
Sites
Height Finders
Radars
Grid
Map
DMED/DTED
GeoTIFF
etopo2.tif
bluemarble.tif
c41078a1.tif
c1_B1.tif
TrueMarble.250m.21
TrueMarble.250m.
VPF
Level 1
Level 0
Eurasia
Boundaries
Elevation
Hydrography
Industry
Physiograph
Population
Main PPI
NTN AE467
S3A 7127
SAlt 225
Air Track - Properties
Properties
Developer
ASE
CSI
NTN AE467
DLRN
TN
ATN
SRN
Emer
S/L Live
Position 50°40'28"N 003°26'48"E
GEOREF NKDF2840
Hdg 305
Spd 035
Mach 0.64
Alt 231
Q 7
S 1 Unit
Spl
J/S
SIF
S1 00
S2 0000
S3A 7127
M4
SelColor
SelColor Label
Identity
Local Label
Callsign (BMR1630)
Id F
Plat
Act
Specific Type
Callsign/Mode-S ID
Mode-S Address
LI F0
SI NR
EID
Flight Plan Callsign (BMR1630)
Air Track
Options
Tracks
Plots
Labels
SelColor
Areas
Miscellaneous
Tracks
Plots
PPLIs
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MASE Configuration Items
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Target Report
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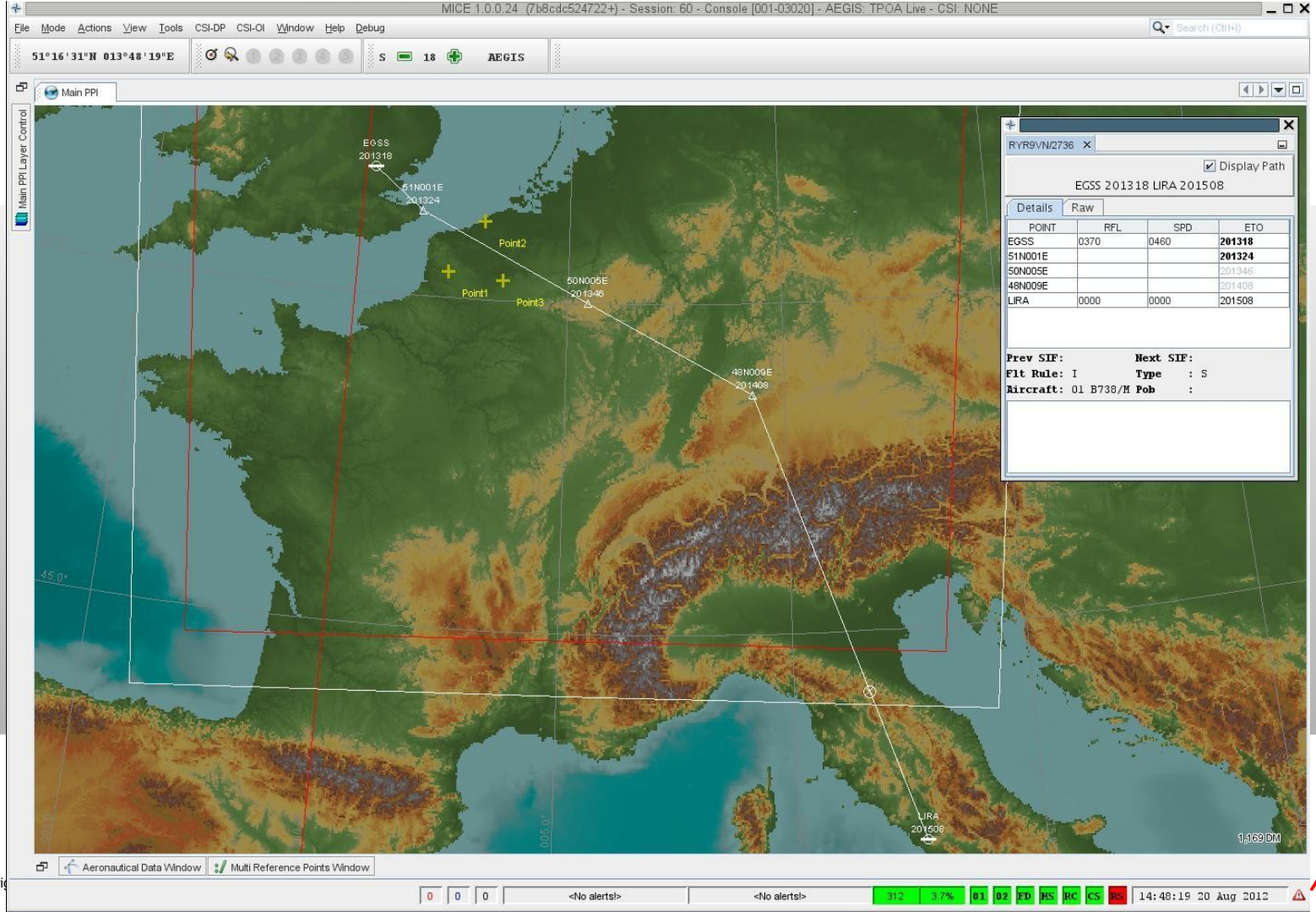
Land Track
Land Unit
Land Track Unit
Indirect Interface Unit
Surface Track
Subsurface Track
Position
Frame
Compact
Frame Selected
Compact Selected
Label
Displayed
Selected
NTN
DLRN
TN
ATN
Local Label
Callsign
SelColor Label
S/L
Hdg
Spd
Alt
S1
S2
S3A
M4L
Specific Type
Q
S
Callsign/Mode-S ID
Mode-S Address
SAlt
Export
Import
OK
Cancel
Aeronautical Data Window
W S C/S SIF3
BMR1630 7127 AE467
BEL5AM 7107 AE072
GMI182 2303 AA401
VQBHA 2341 AA250
BEL45D 0804
BEL7CP 7131
VLG8993 7136
SMX5984 5702 AA554
LBY798 0114 AE303
TDEACT FR FT R PSIF NSIF
201323 S
201335 I S X
201323 I S X 2303
201335 I G X
201347 I S X
201343 I S X
201332 I S X
201334 I S X
201330 I S X
Rules
New
FP(s): 63/66 Last upd: 0
Details
Auto Select Flight Plan
<No alerts>
<No alerts>
13:19:32 20 Aug 2012


MICE 1.0.0.24 (7b8cdc524722+) - Session: 60 - Console [001-03020] - AEGIS: TPOA Live - CSI: NONE
File Mode Actions View Tools CSI-DP CSI-OI Window Help Debug
51°16'31"N 013°48'19"E
AEGIS
Main PPI
Main PPI Layer Control
EGSS
201318
51N001E
201324
Point2
Point1
Point3
50N005E
201346
48N009E
201408
LIRA
201508
RYR9VN/2736
Display Path
EGSS 201318 LIRA 201508
Details
Raw
POINT RFL SPD ETO
EGSS 0370 0460 201318
51N001E 201324
50N005E 201346
48N009E 201408
LIRA 0000 0000 201508
Prev SIF:
Next SIF:
Flt Rule: I
Type : S
Aircraft: 01 B738/M
Pob :
Aeronautical Data Window
Multi Reference Points Window
<No alerts!>
<No alerts!>
14:48:19 20 Aug 2012

How MICE Benefits from NetBeans IDE

- Integration in Version Control (Mercurial)
- Automation of Unit Tests (JUnit, Cobertura)
- Static Code Analysis (CheckStyle, PMD, FindBugs)
- Connection to Issue tracking (Bugzilla) / Continuous Integration (Jenkins) Servers
- CPU and Memory profiling
- Powerful debugger
- Showcase of NetBeans Platform functionality

Gerrick Bivins

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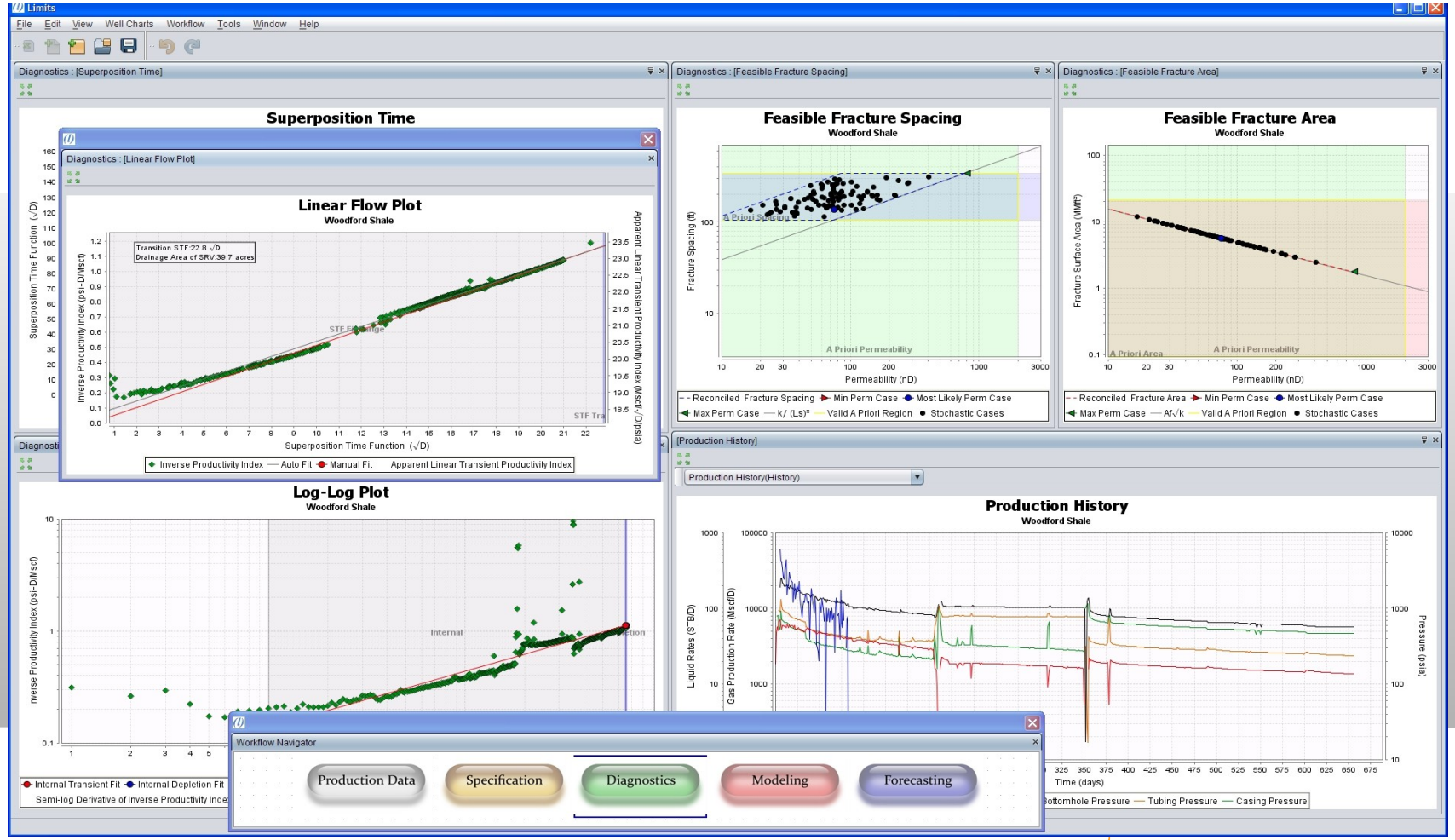
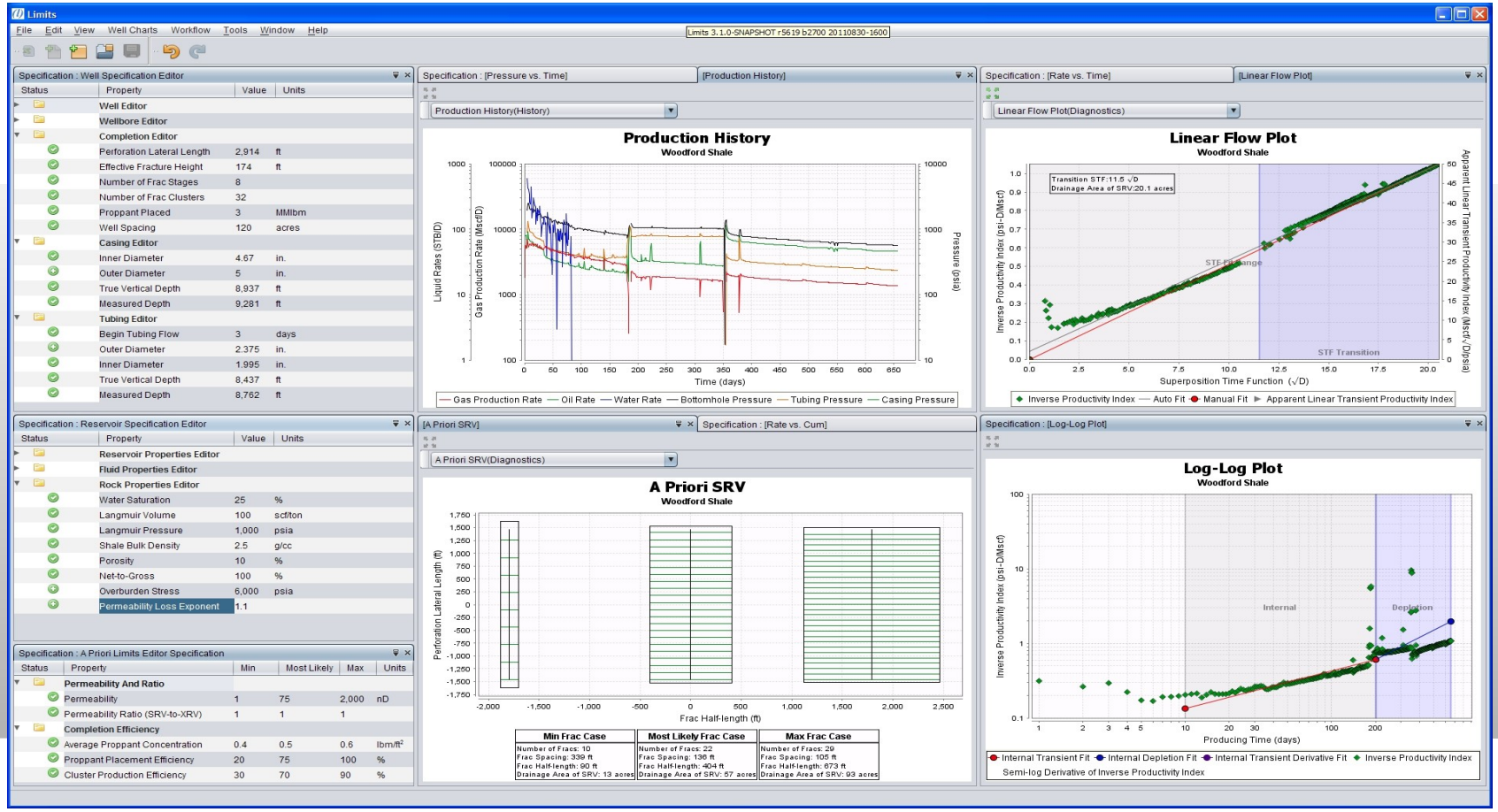
ORKA: Limits

Limits is a reservoir engineering tool for shale gas and unconventional reservoirs.

Limits uses readily available and routinely collected pressure and rate data to determine feasible ranges of physical reservoir and completion parameters in order to estimate the uncertainty in the future performance of the well.





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