The presentation will begin at
8:30 am
Pacific Time - US

ILOG Visualization 101

Transform Insight into Action

June 16, 2009

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Welcome

ILOG Visualization 101

Transform Insight into Action

June 16, 2009

Julie Seltzer Firsty
jfirsty@us.ibm.com

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Today's Session

- 45 minute discussion
- Link to replay will be emailed to all attendees
- Attendees will be muted to minimize background noise

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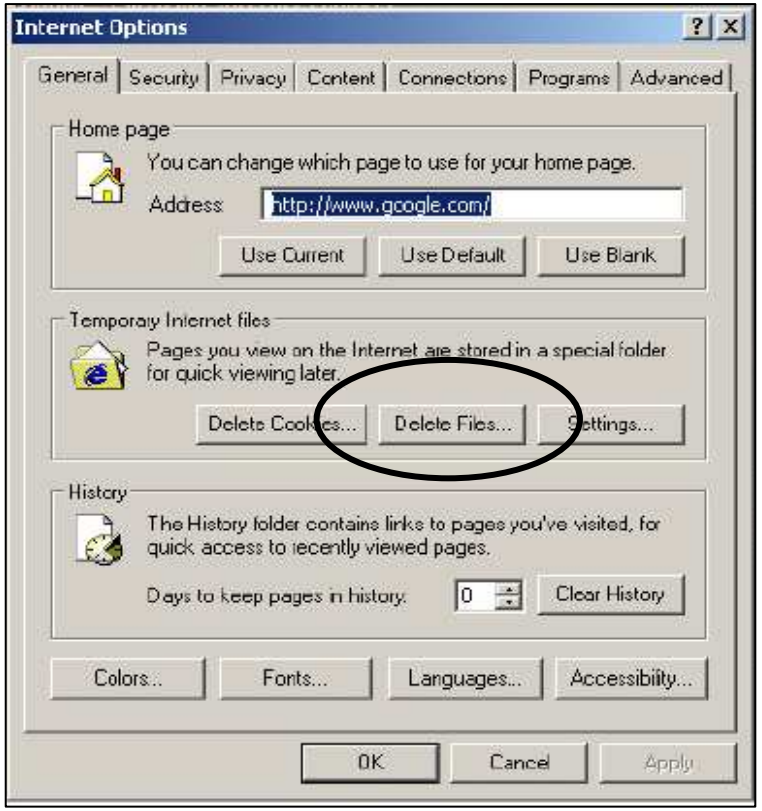
Viewing Product Demos: Troubleshooting

- Close all applications that are not in use
- Clear your temporary internet files cache
  - Open a new web browser window
  - From the Tools Menu
  - Select Internet Options
  - Click Delete Files button



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Presenters/Panelists

- Ed Király, Visualization Product Manager, kiraly@us.ibm.com
- Dan Jeffrey, TAM Manager, djeffrey@us.ibm.com

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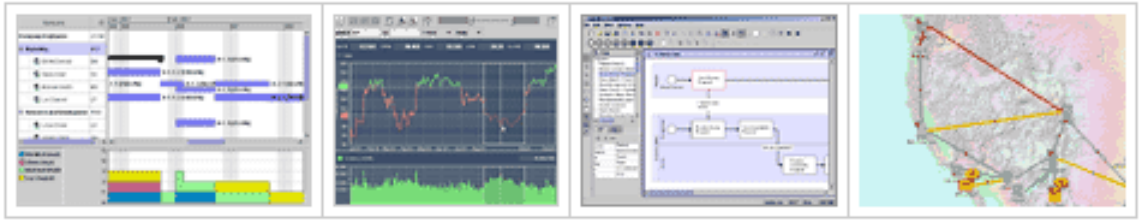
IBM ILOG Visualization 101



Ed Király and Dan Jeffrey
Visualization Team
kiraly@us.ibm.com
djeffrey@us.ibm.com

What is Visualization?

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Which is better for the User?

Distribution Center	Product	Customer	Quantity
Philadelphia	SKU 1099	Malden	25
Philadelphia	SKU 1099	Medford	26
Philadelphia	SKU 1099	Quincy	25
Philadelphia	SKU 1099	Brockton	28
Philadelphia	SKU 1099	Bristol	28
Philadelphia	SKU 1099	Manchester	26
Philadelphia	SKU 1099	Milford	24
Philadelphia	SKU 1099	New Haven	24
Philadelphia	SKU 1099	Stamford	25
Philadelphia	SKU 1099	Bayonne	29
Philadelphia	SKU 1099	Passaic	30
Philadelphia	SKU 1099	Union City	34
Philadelphia	SKU 1099	West New York	25
Philadelphia	SKU 1099	Irvington	27
Philadelphia	SKU 1099	Jersey City	29
Philadelphia	SKU 1099	Wayne	27
Philadelphia	SKU 1099	Lakewood	26
Philadelphia	SKU 1099	Toms River	31
Philadelphia	SKU 1099	Piscataway	24
Philadelphia	SKU 1099	New York	53
Philadelphia	SKU 1099	Staten Island	41
Philadelphia	SKU 1099	Bronx	40
Philadelphia	SKU 1099	Yonkers	29
Philadelphia	SKU 1099	Brooklyn	52
Philadelphia	SKU 1099	Flushing	37
Philadelphia	SKU 1099	Corona	38
Philadelphia	SKU 1099	Jackson Heights	
Philadelphia	SKU 1099	Elmhurst	
Philadelphia	SKU 1099	Forest Hills	
Philadelphia	SKU 1099	Woodside	
Philadelphia	SKU 1099	Ridgewood	
Philadelphia	SKU 1099	Jamaica	
Philadelphia	SKU 1099	Hempstead	
Philadelphia	SKU 1099	Piscataway	
Philadelphia	SKU 1099		
Philadelphia	SKU 1099		
Philadelphia	SKU		
Philadelphia			

Philadelphia	☑	2,283,556.686	757,300
Akron	☑	959,494.279	375,200
Denver	☑	4,157,189.358	508,500
Los Angeles	☑	369,516.075	740,800
San Francisco	☑	286,215.75	295,200

Plant	Product	Distribution Center	Quantity
Denver	SKU 1099	San Francisco	922
Denver	SKU 1099	Los Angeles	2,406
Denver	SKU 1099	Denver	1,604
Philadelphia	SKU 1099	Akron	1,214
Philadelphia	SKU 1099	Philadelphia	2,559
Denver	SKU 1199	San Francisco	751
Denver	SKU 1199	Los Angeles	1,718
Denver	SKU 1199	Denver	1,530
Philadelphia	SKU 1199	Akron	956
Philadelphia	SKU 1199	Philadelphia	1,702
Denver	SKU 1299	San Francisco	357
Denver	SKU 1299	Los Angeles	878
Denver	SKU 1299	Denver	347
Philadelphia	SKU 1299	Akron	368
Philadelphia	SKU 1299	Philadelphia	753

These tables with numbers…

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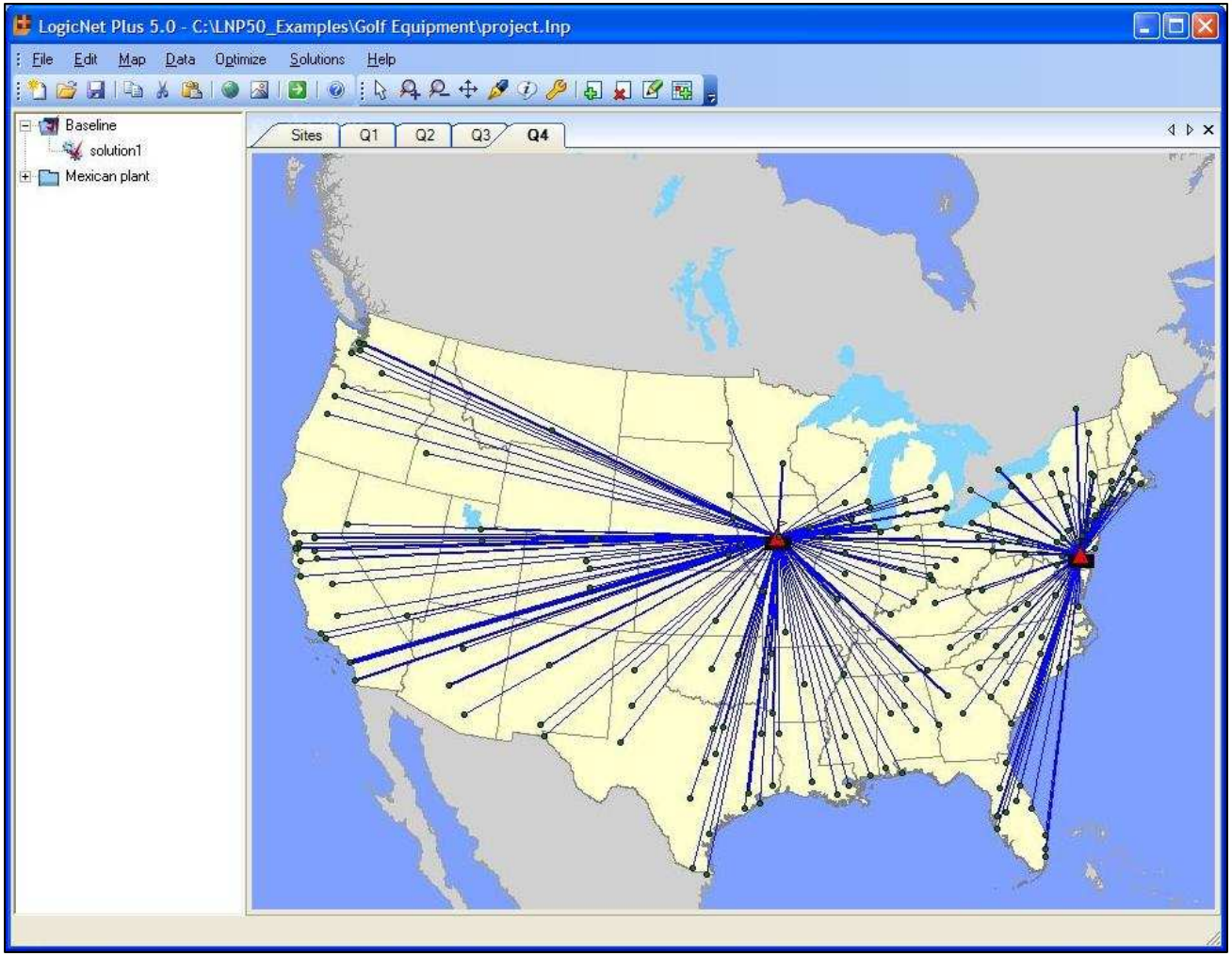

…or this graphical display??

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What is ILOG Visualization?

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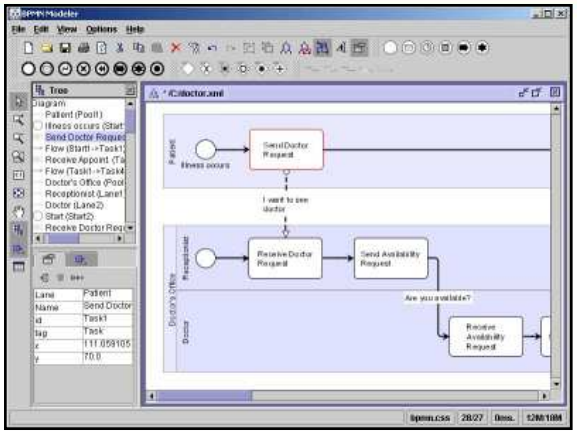
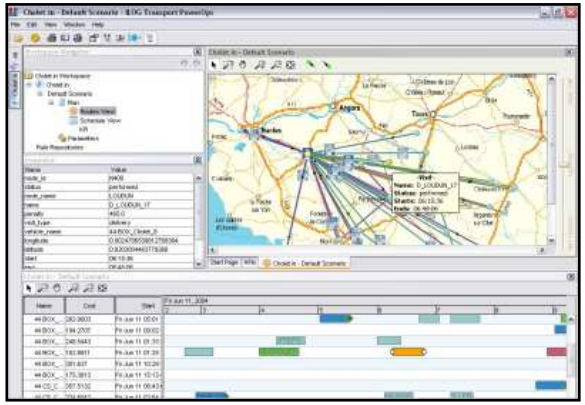
ILOG Visualization





- "Building blocks" for developing user interfaces
  - Not finished apps
    - In contrast with Cognos
  - Target audience: user interface programmers
- Three sweet spots
  - Visual modeling applications
  - Visual monitoring
  - Analysis applications
- We offer 14 products, organized by
  - Development platform
  - And type of display you are building
- Key points
  - These user interfaces are difficult to build
  - We provide customizable building blocks
  - We take care of performance
    - Huge data sets
    - Fast screen redraws
  - We bring innovation to the interface

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Introductory Demonstration

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Industries and Clients

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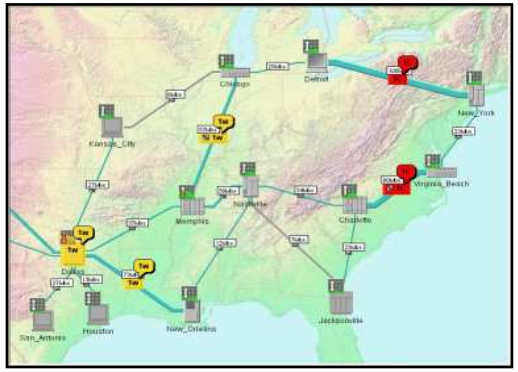
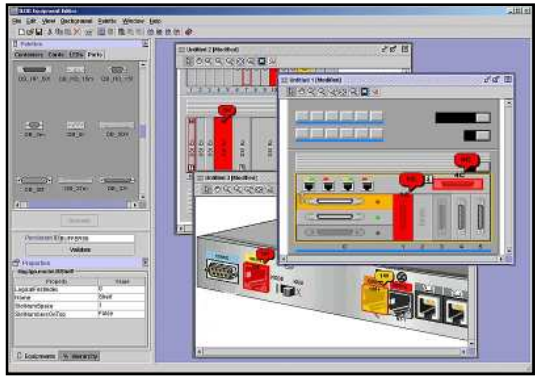
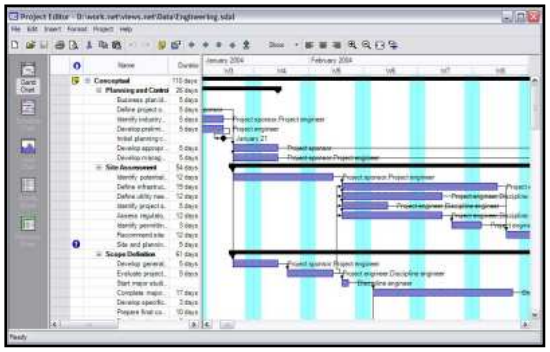
Typical Industries, Typical Clients







- Our clients are everywhere
  - Network Management
  - Defense
  - Industrial supervision
  - Planning & Scheduling
  - Enterprise business
  - … and more…

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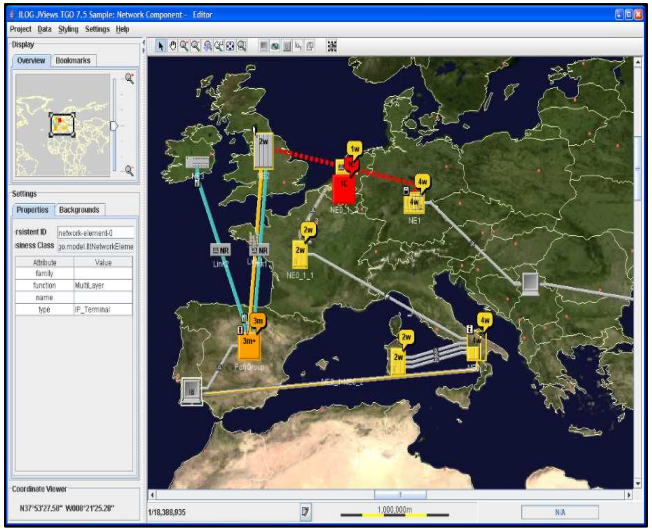
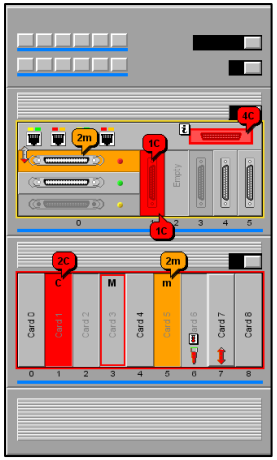
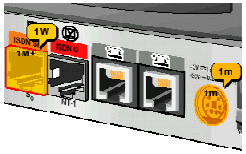
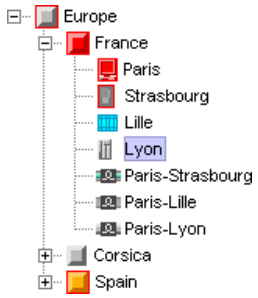
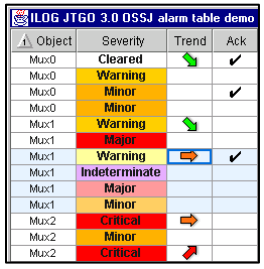
Network Management











- Goal
  - Provide administrators with an intuitive view of their equipment and quality of service
- Features
  - Pre-built standards-based symbols
  - “Smart” network topology displays
  - Perfect for real-time updates
  - Desktop and web

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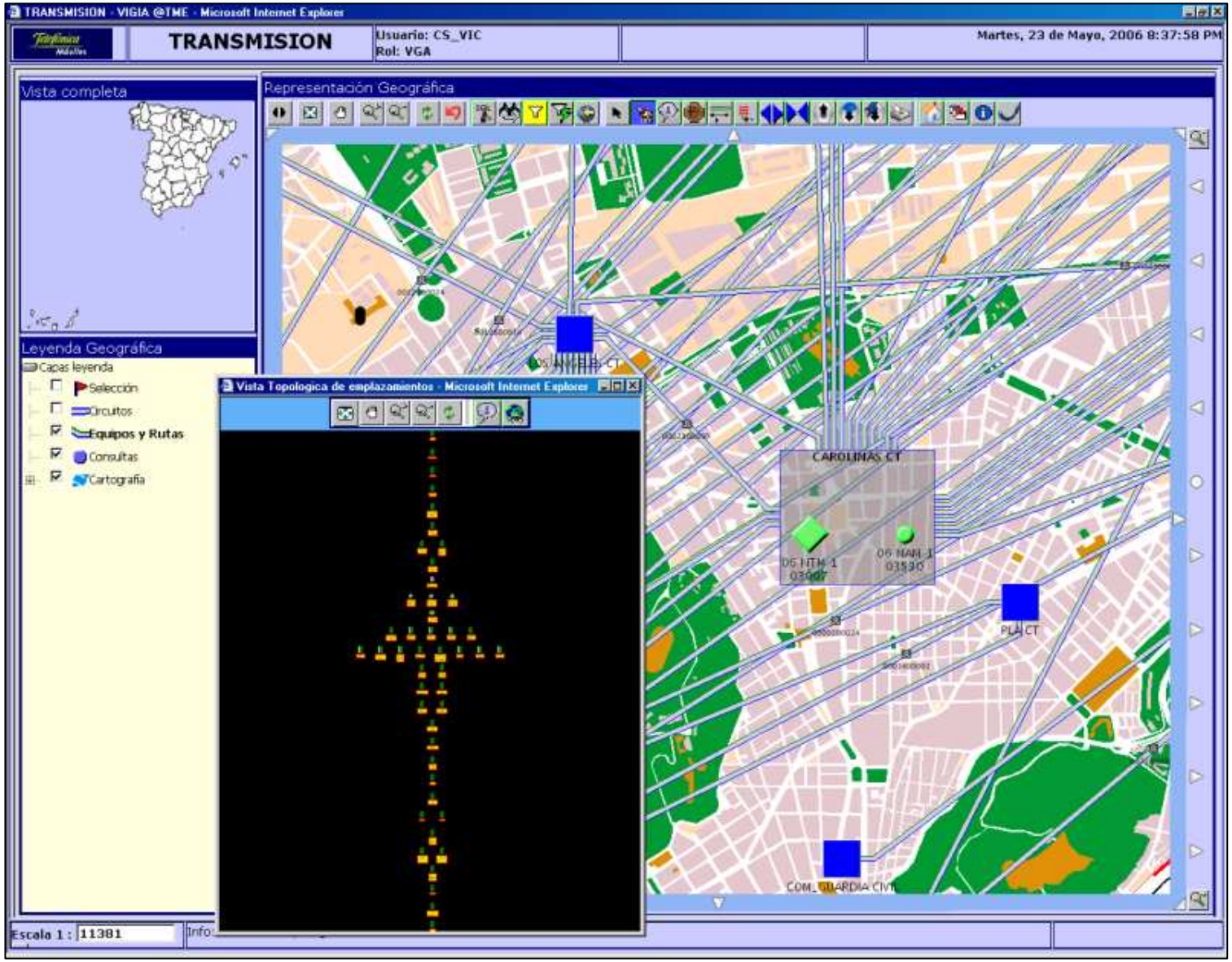

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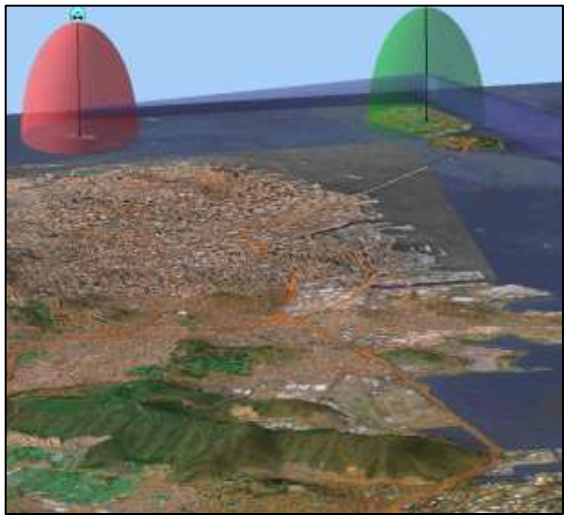
Defense



- Goal
  - Real-time dynamic tactical displays
  - Mission planning displays
- Features
  - Pre-built, standards-based symbols
  - Can handle almost any type of map
  - Displays for land, air, sea displays
  - A real-time alternative to ESRI

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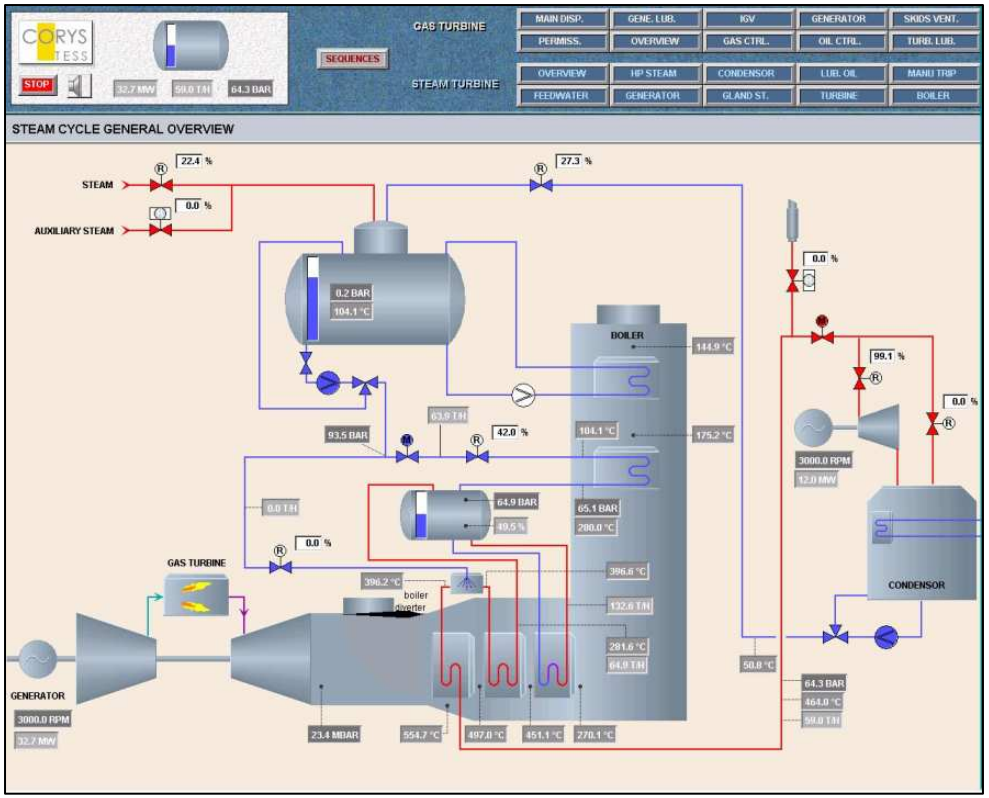
Industrial Supervision



- Goal
  - Real-time supervision of physical equipment
- Features
  - Editors for building these screens
  - Build-your-own symbols
  - Nice screen redraws
  - Customizable connections to data feeds

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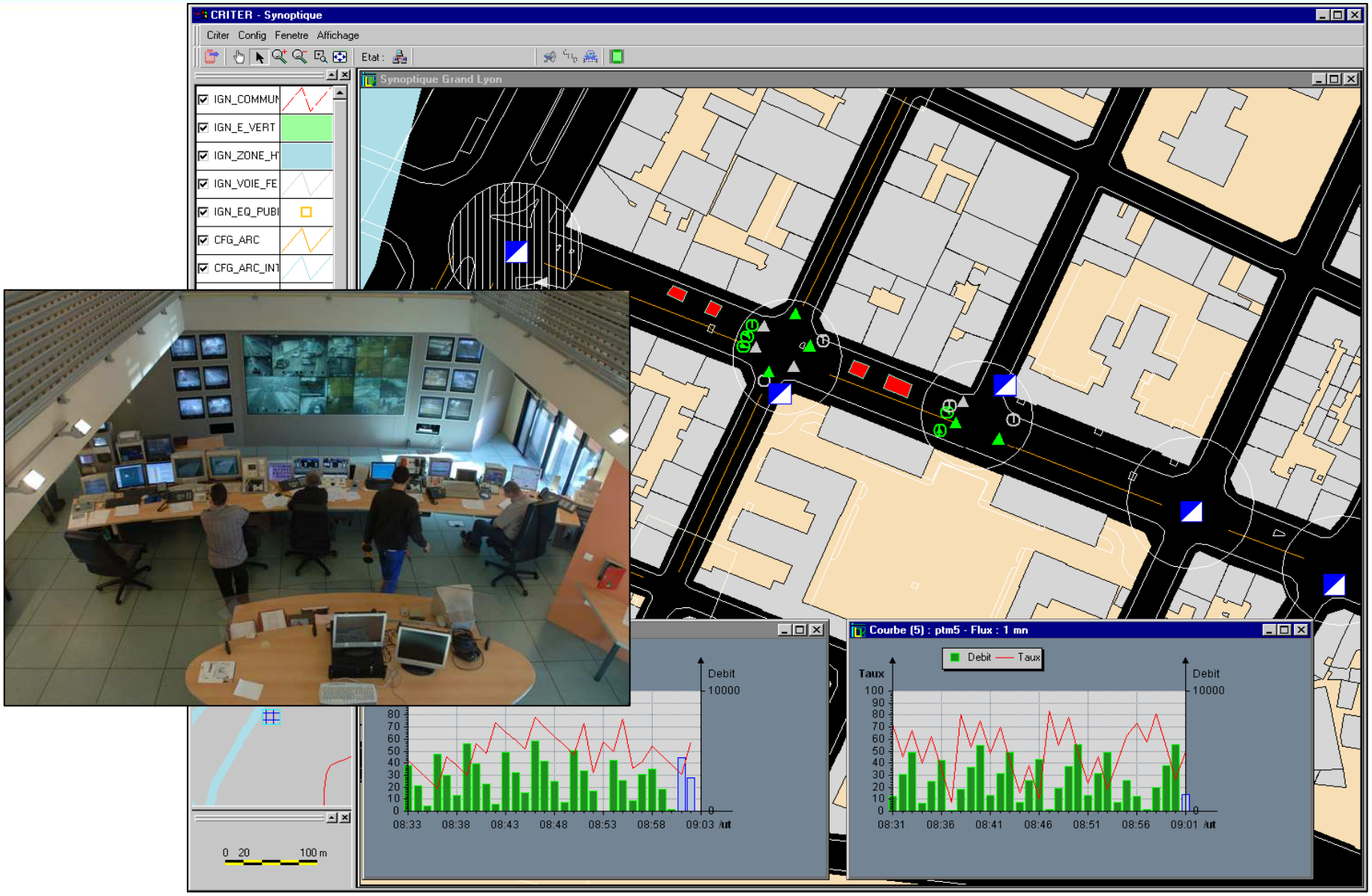
Traffic Supervision in Lyon



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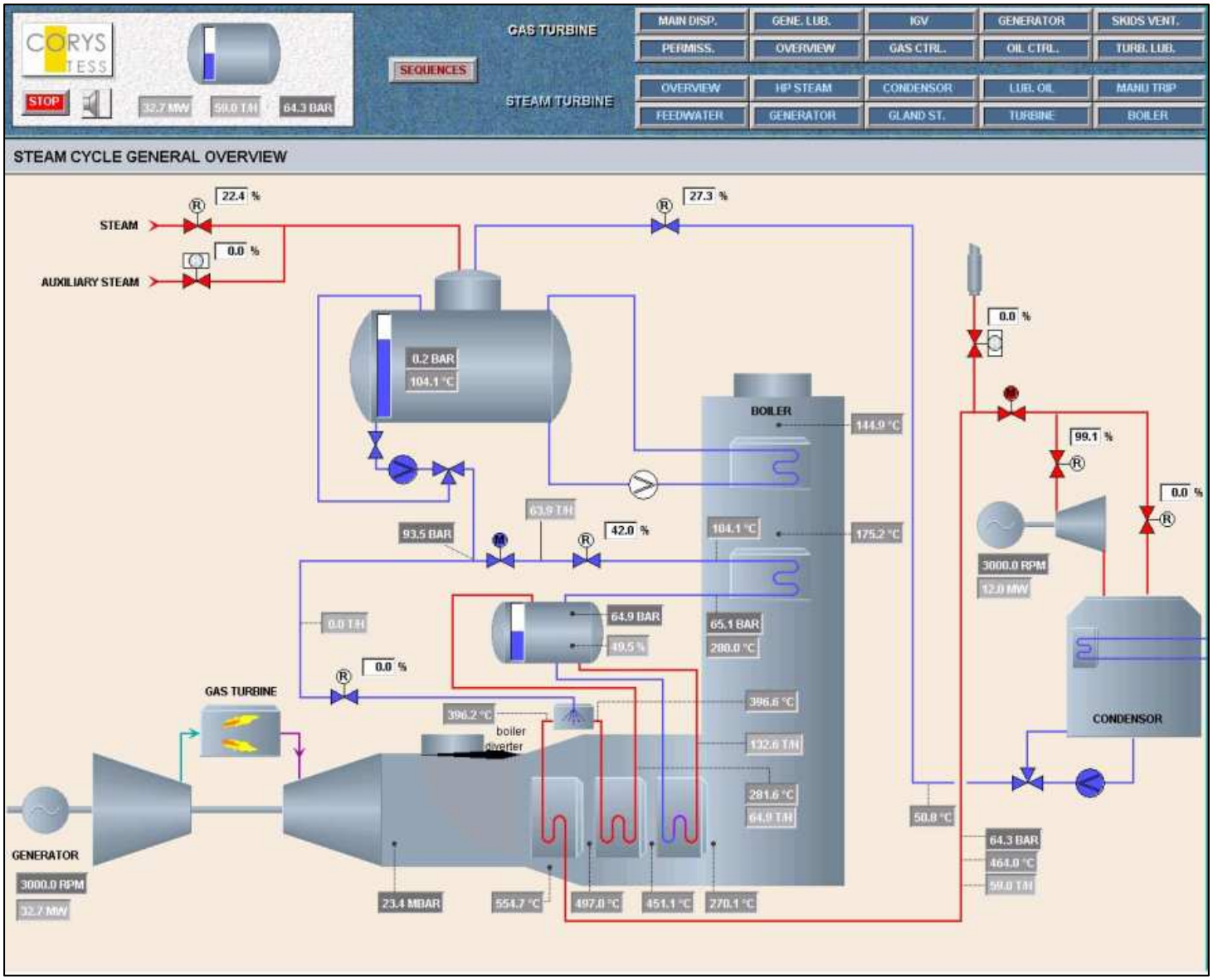
Corys: Nuclear Plant Simulators



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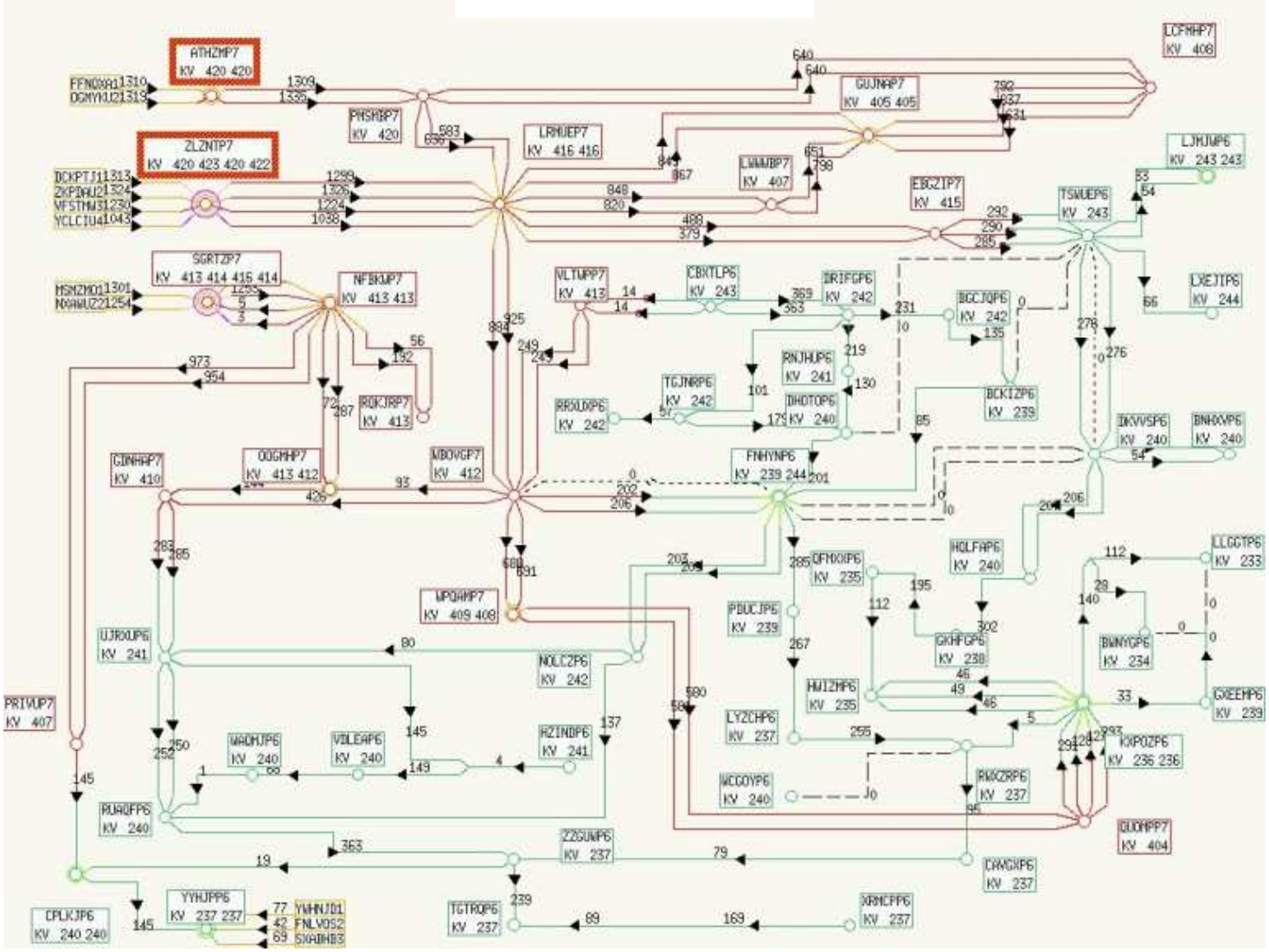
EDF: Electrical Network



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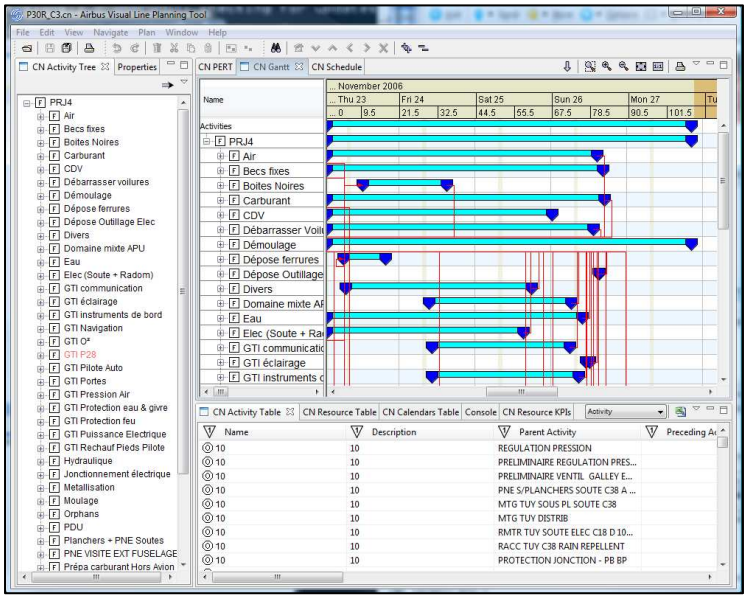
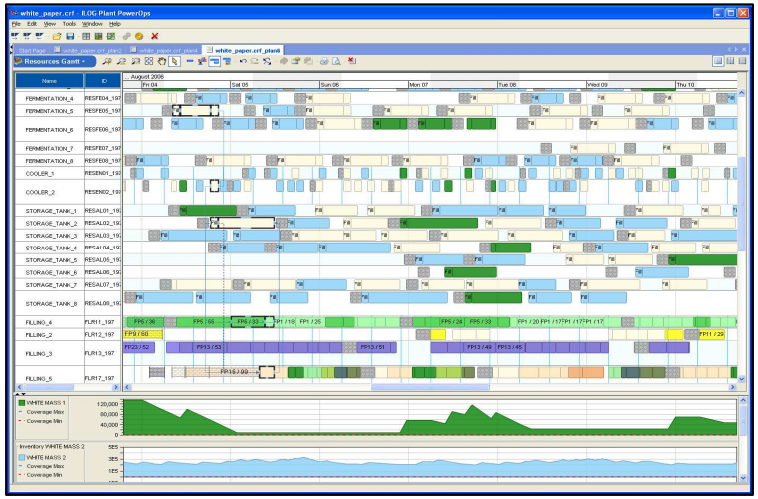
Planning and Scheduling





- Goal
  - View and edit plans, schedules, projects, resource charts
- Features
  - Typically connected to scheduling apps
  - Scalability and full customization
  - Desktop and Web

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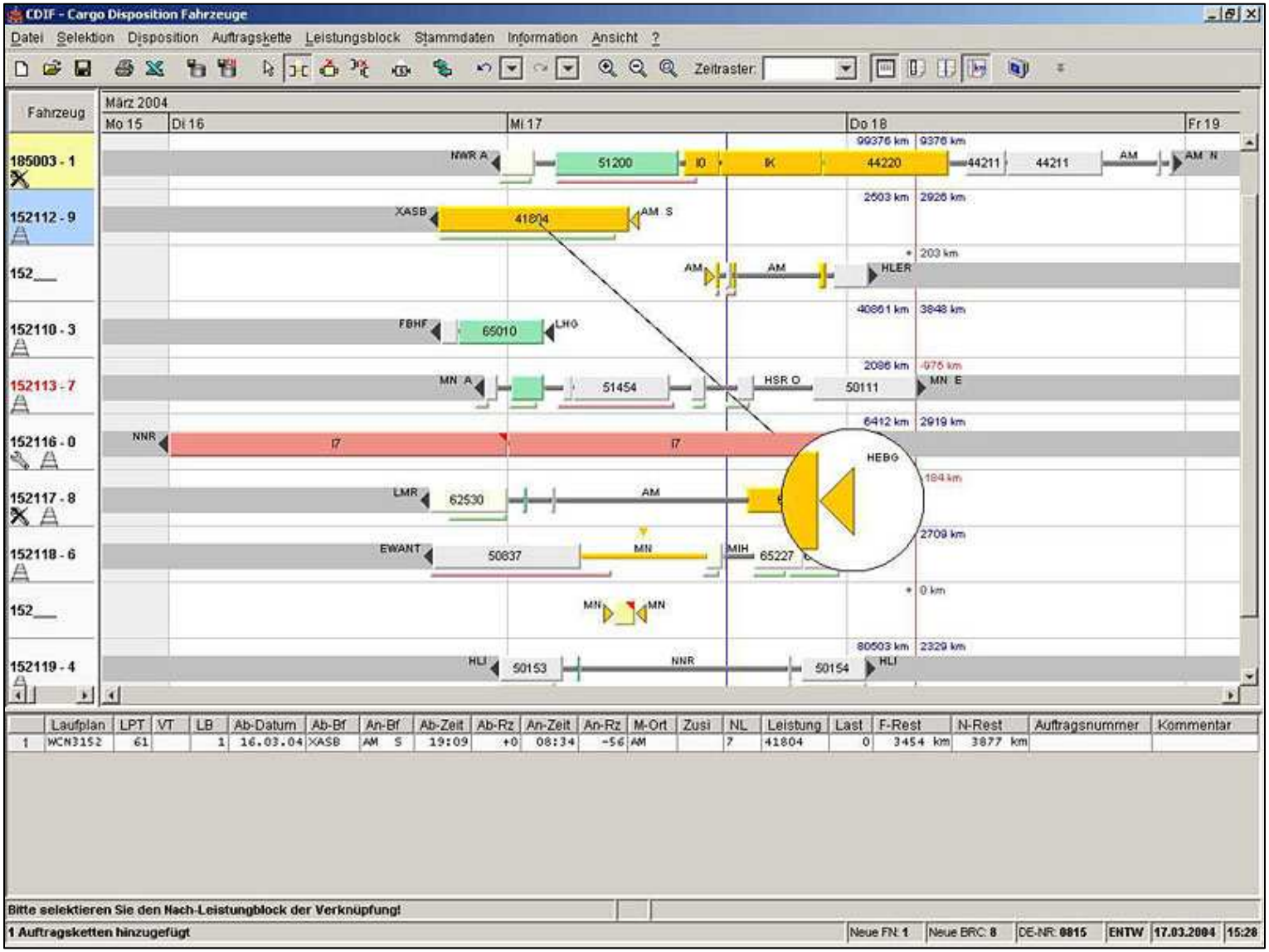
Deutsch Bahn



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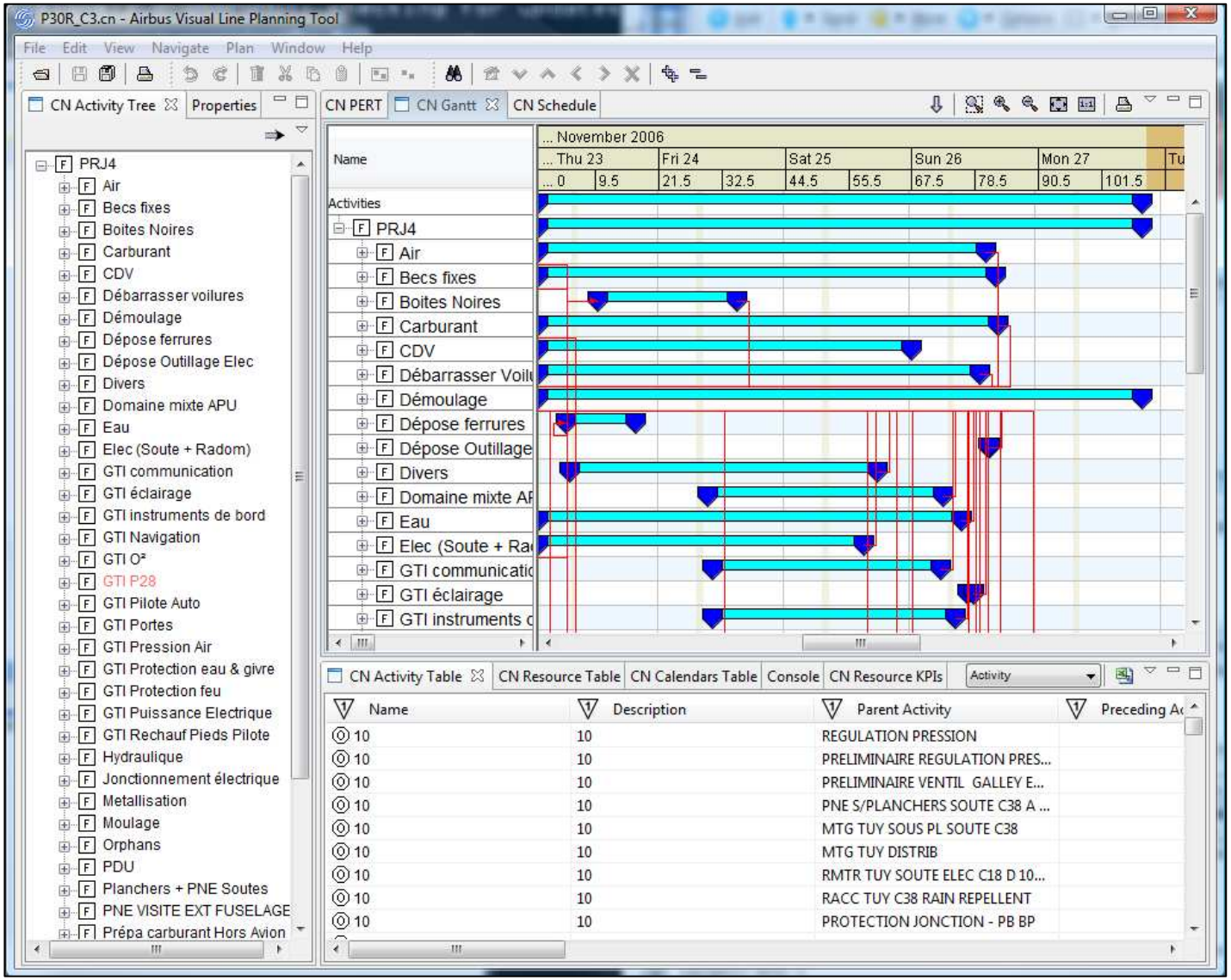
Airbus



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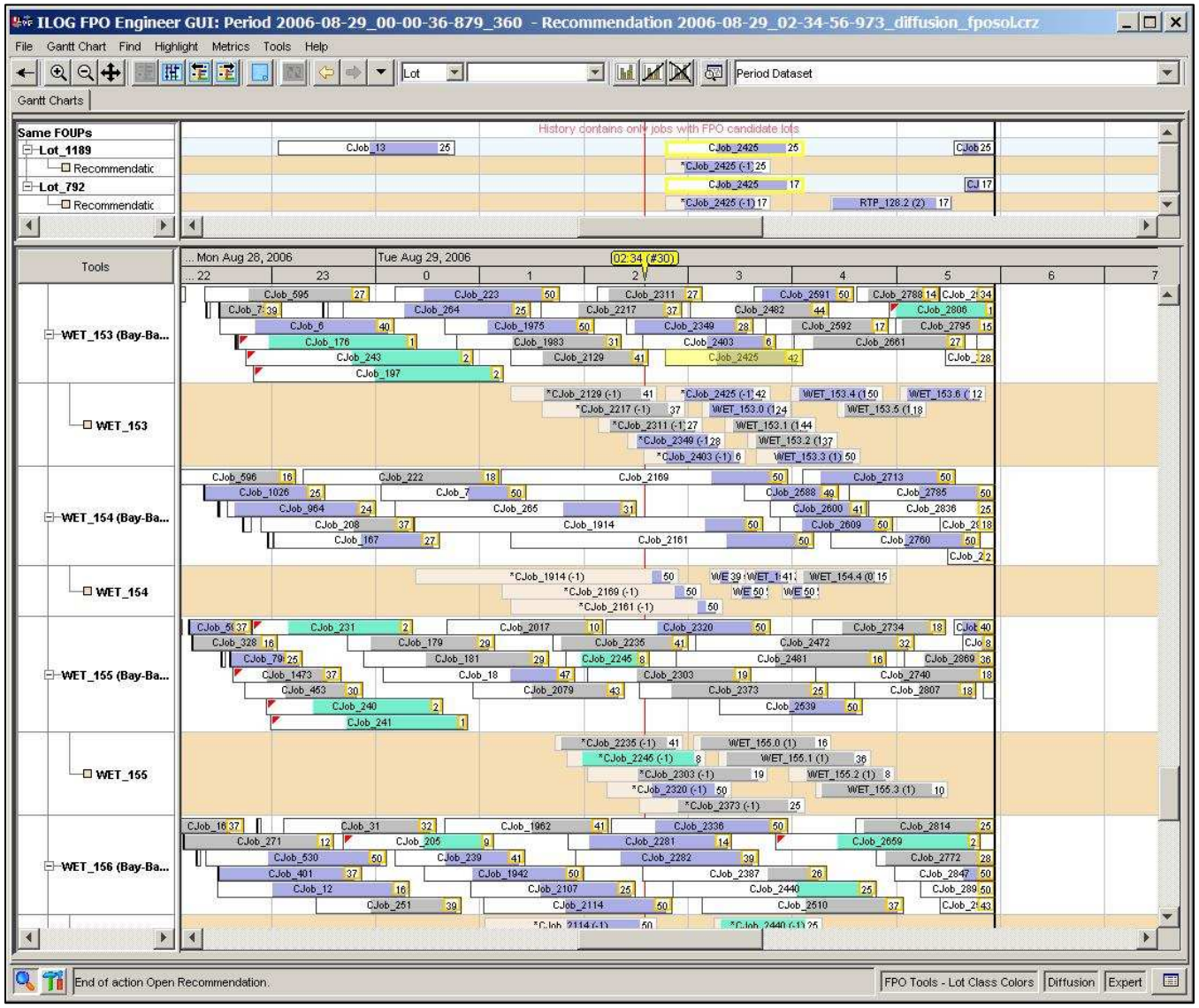
IBM Fishkill



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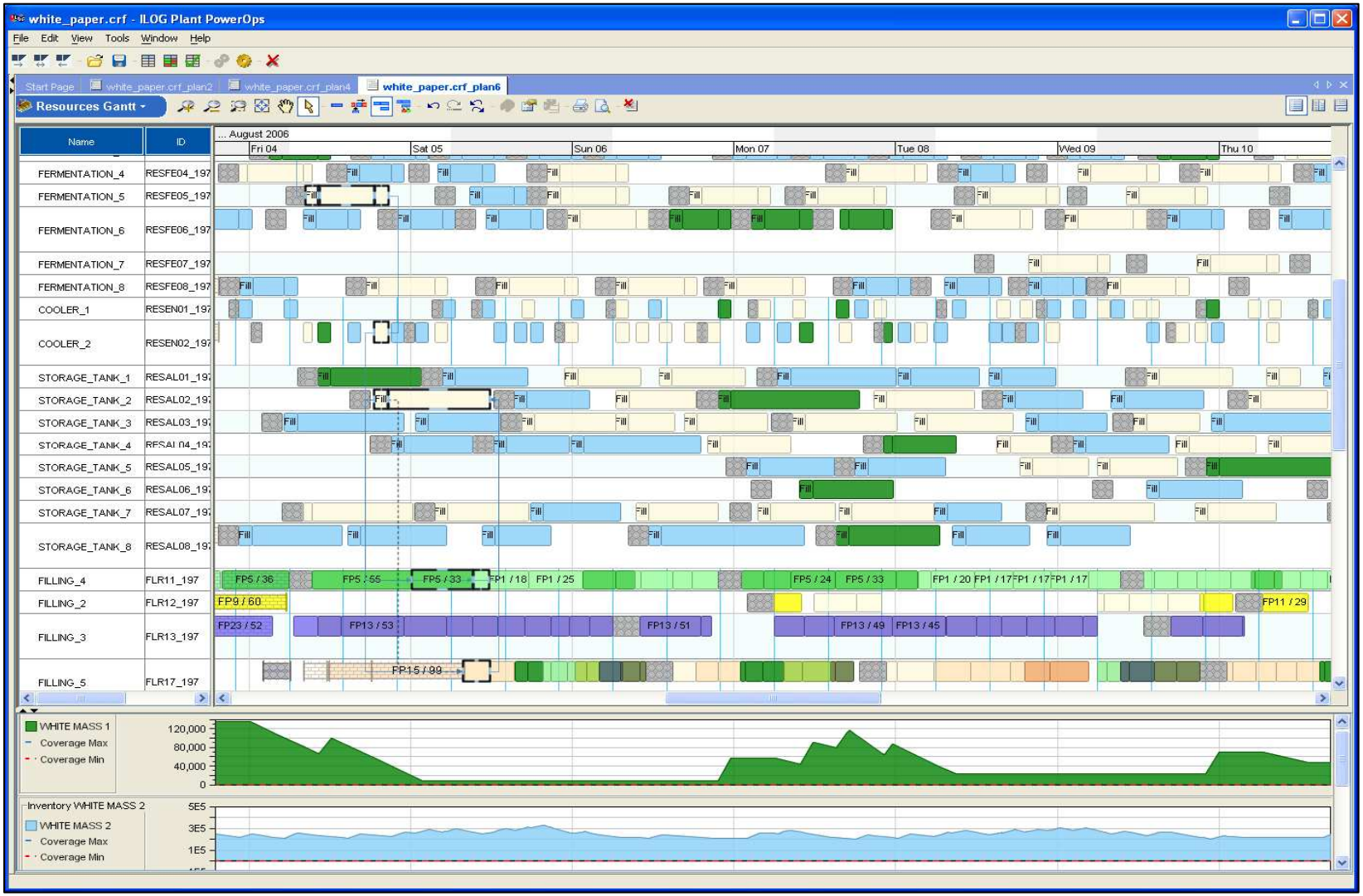
Manufacturing Plant Schedule



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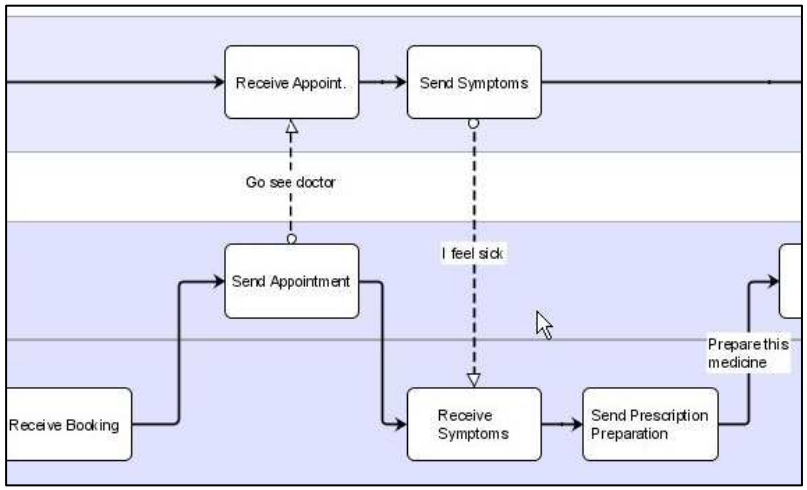
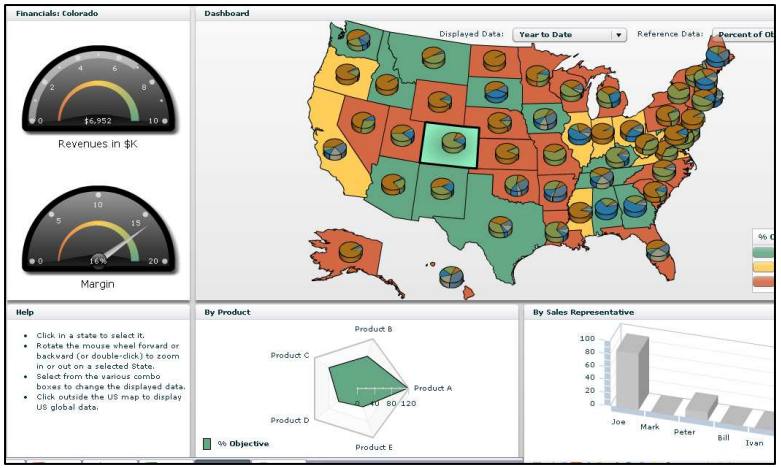
Business Process Management





- Goals
  - Process Modelers
  - Business dashboards
- Features
  - Pre-built, standards-based symbols
  - “Smart layout”
  - Ready-to-tailor editor
  - Dashboard Builder
  - Deploy to Desktop or Web

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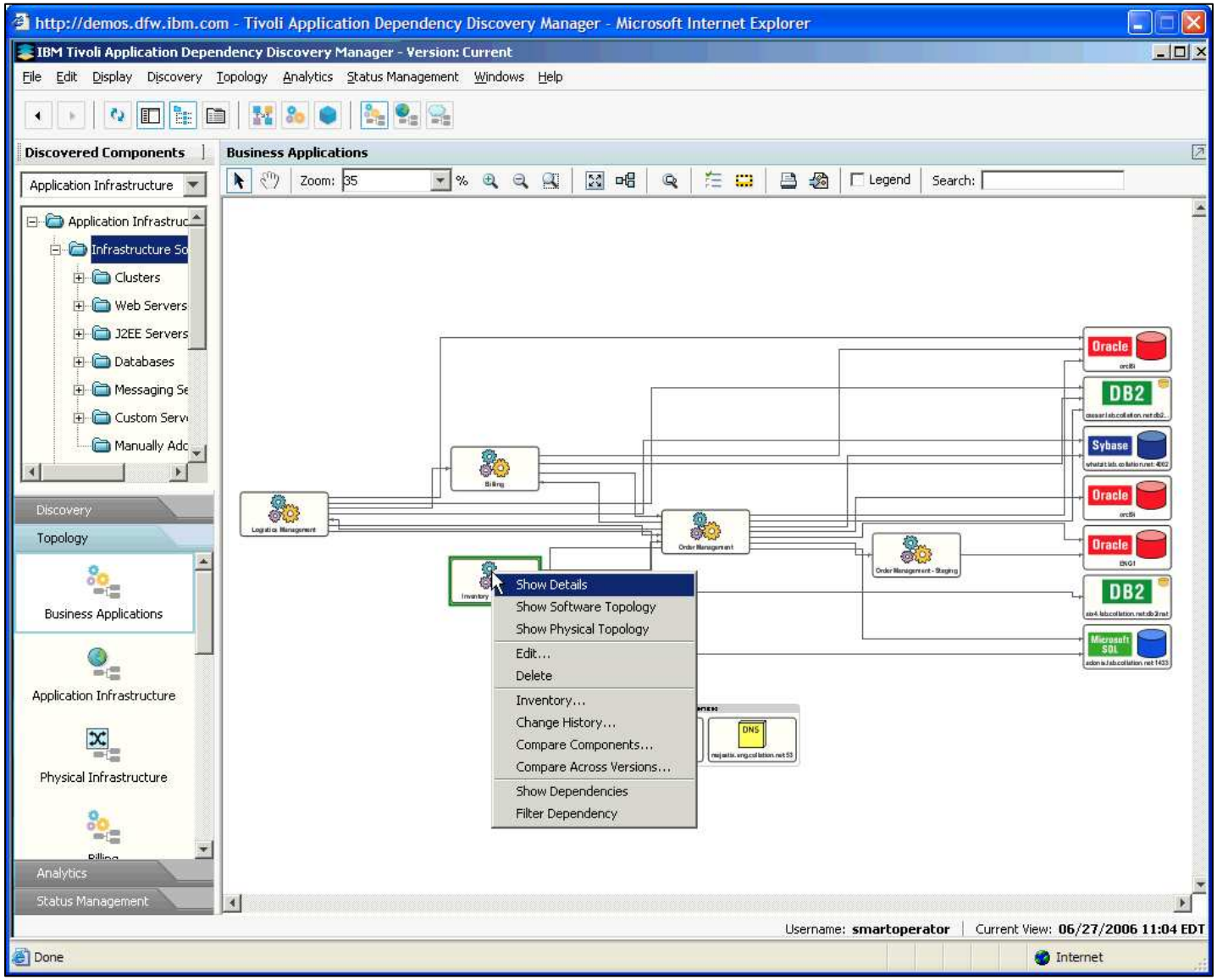
IBM Tivoli Dependency Discovery Manager



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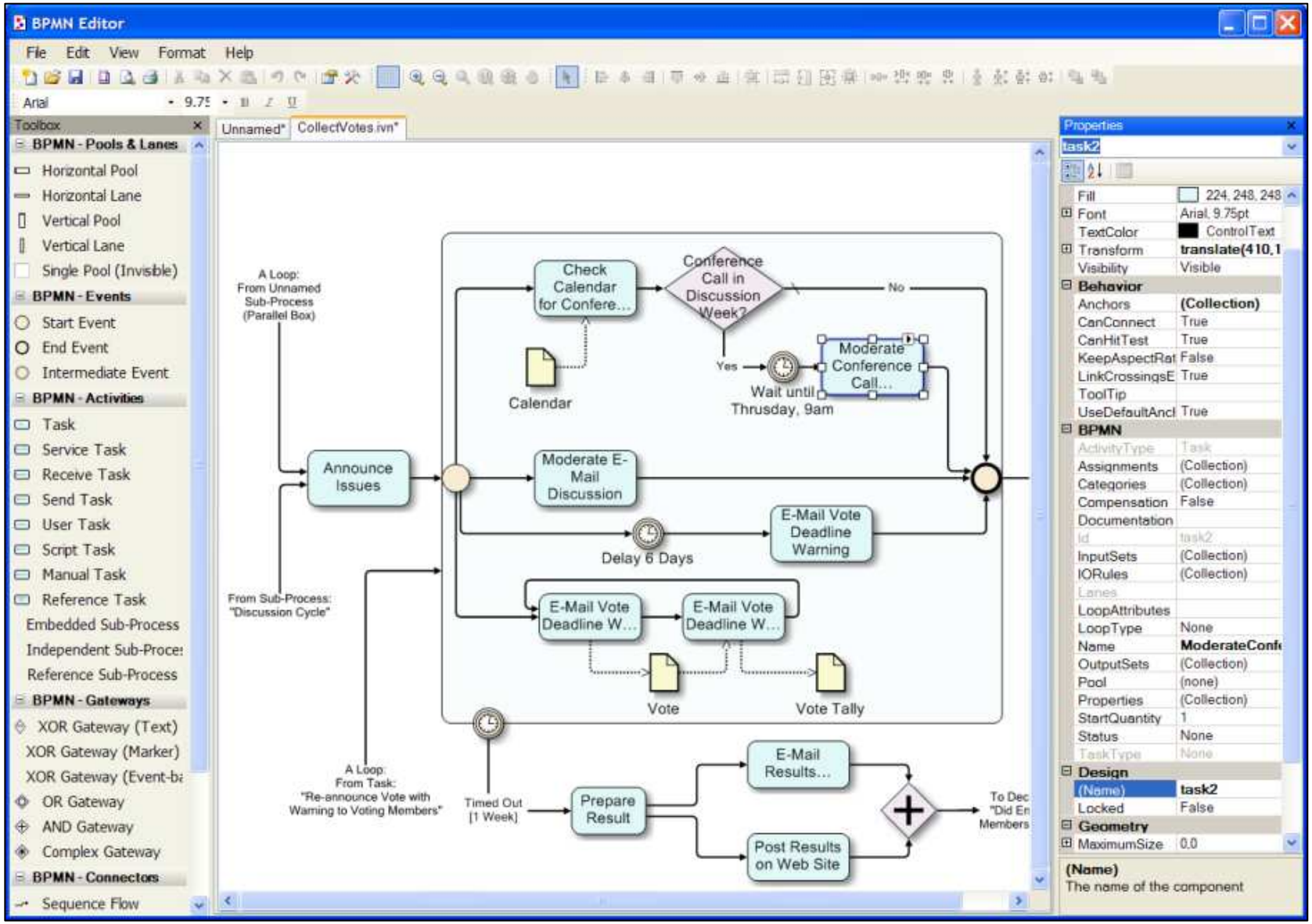
BPMN Modeler



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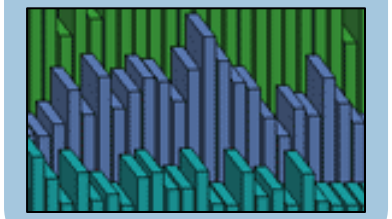
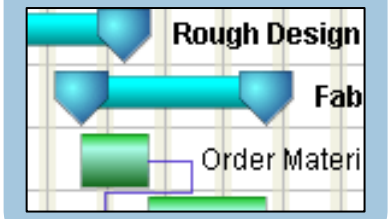
Focusing on the Products

The ILOG Visualization Products

Charts

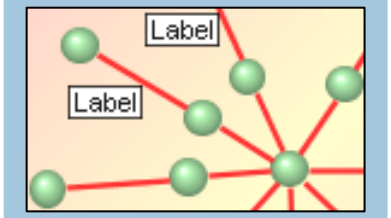


Gantt



Networks

Diagrams



Dashboards

Maps

- IBM ILOG JViews
  - Diagrammer
  - Graph Layout for Eclipse
  - Telecom Graphic Objects
  - Charts
  - Gantt
  - Maps
  - Maps for Defense
- IBM ILOG Views
  - Views
  - Charts
  - Maps
  - DataAccess
- IBM ILOG for .NET
  - Diagram
  - Gantt
- IBM ILOG Elixir

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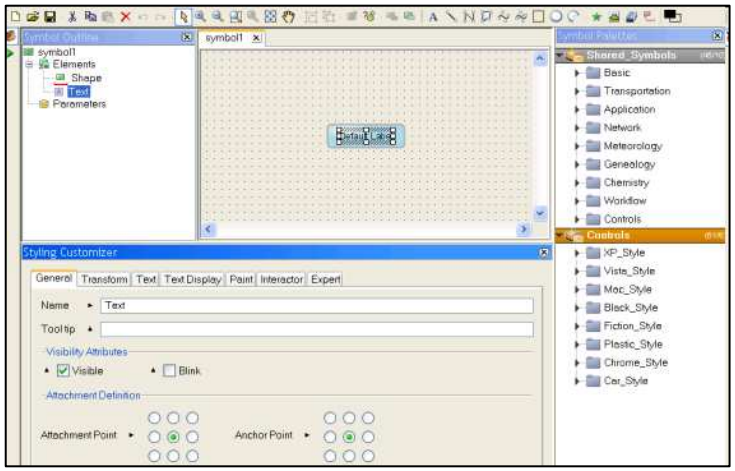
The ILOG Visualization Products

- Tailor the displays to your user's exact needs
  - Completely open API for drawing and interaction
  - Designer tool for development speed
  - Cascading style sheets for rapid customization
- Model-driven displays
  - MVC design pattern
- Architected to handle all problem sizes
  - Load-on-demand for huge data sets
- Deploy to your customer's platform
  - Java applet/application
  - AJAX DHTML (thin) clients + JavaScript
  - AJAX SVG clients
  - Flex
- Full printing support, JavaBeans, etc.



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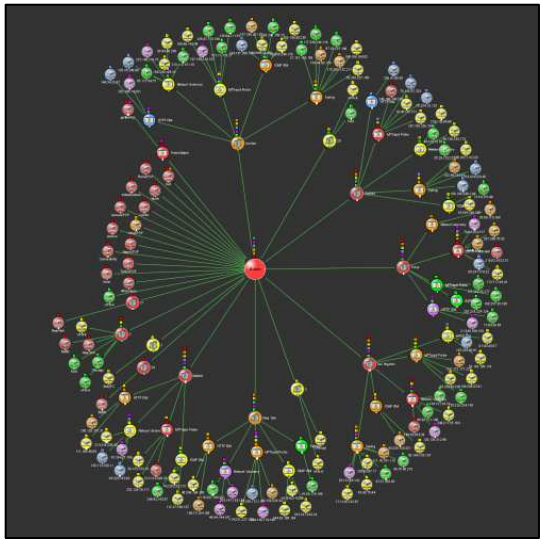
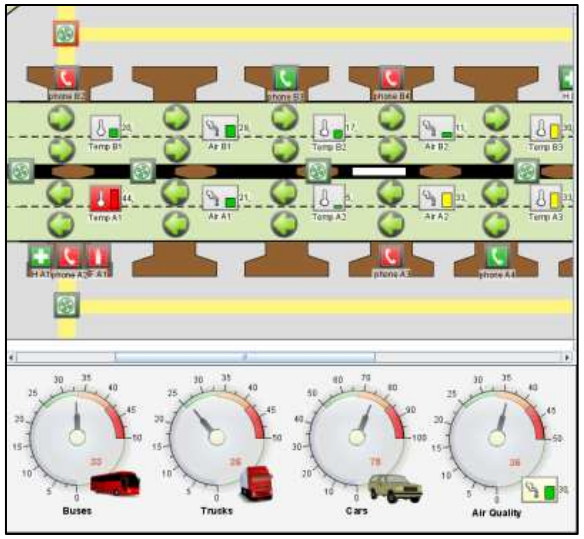
Diagrams, Networks, Dashboards





C++, Java, .NET, Flex

- Interactive diagrams, flowcharts, networks
- Complex diagrams kept readable
  - Graph layout algorithms
- BPM, SOA, and dashboard support
  - BPMN modeler
  - Custom data indicators
- Visual tool chain for fast development
  - Symbol editor
  - Dashboard editor
  - Visual Studio extensions for Diagram .NET
  - Eclipse integration
- Rich Internet Applications
  - AJAX: Editing and visualization
  - Flex: Orgchart, gauges

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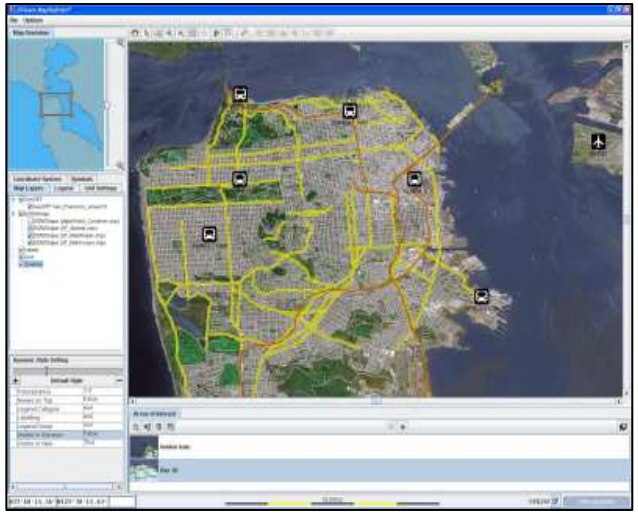
Maps

C++, Java, Flex



- Interactive high-performance maps
  - Map data fusion from most popular formats
  - Overlaid with animated objects
  - Multi-threaded load on demand
- Support most map formats
  - Shapefile, MID/MIF, Tiger/Line, GeoTIFF, GIF, JPEG, DTED, DXF, KML, KMZ, etc
  - Free maps CDROM
- Visual tool chain for fast development
  - Symbol editor
  - Map Builder
- Rich Internet Applications
  - Ajax support (JSF): Tiling for load-on-demand a-la Google Maps
  - Flex: Maps for dashboards

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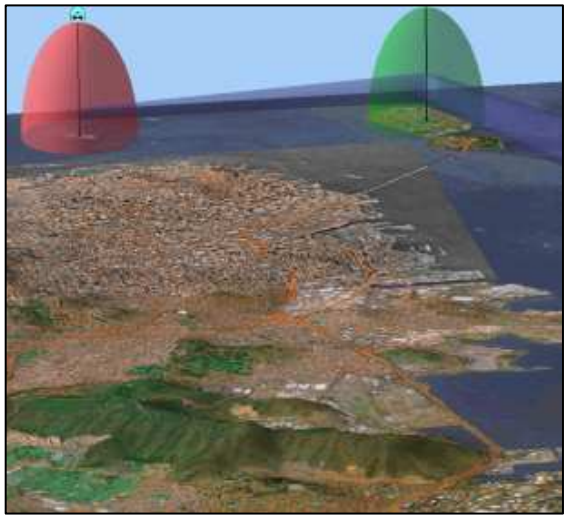
Maps for Defense



Java

- Complement JViews Maps
- Military Map formats
  - CADRG, ASRP, USRP, S57/S52, DAFIF
- Military Symbol sets
  - NATO APP6a
- Terrain Analysis Features
  - Line of sight, area of visibility, terrain shading, etc.
- True 3D views
  - On the flight visualization
  - Fly-through
  - 3D symbology

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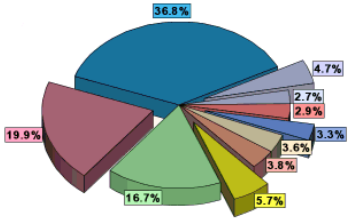
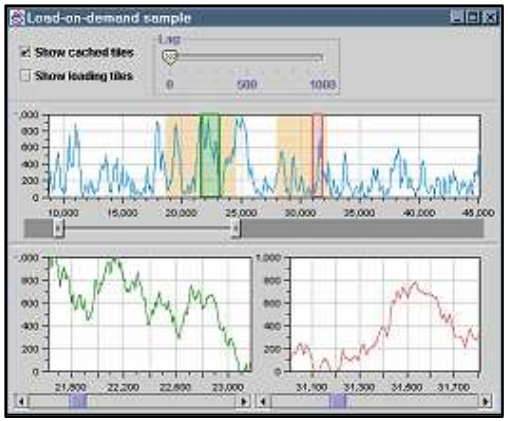
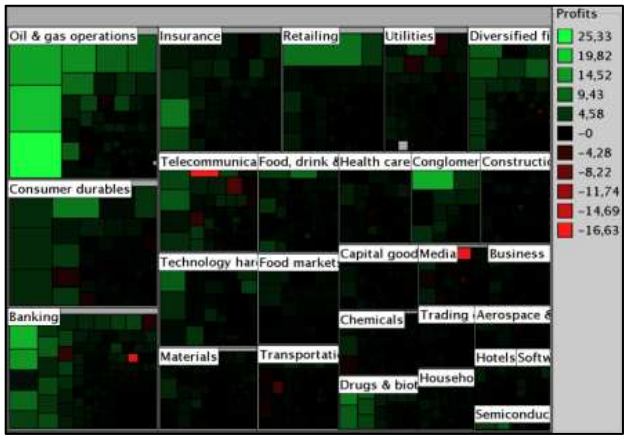
Charting







C++, Java, Flex

- Interactive high-performance charts
  - Wide variety of business, scientific, and data exploration charts
  - Real-time performance
  - Custom interaction
  - Scale to large data sets
- Visual tool for fast parameterization
  - Static and dynamic styling
  - At design time and at runtime
- Rich Internet Applications
  - Ajax support (JSF and DHTML)
  - Flex: 3D, radar chart, treemap, heatmap

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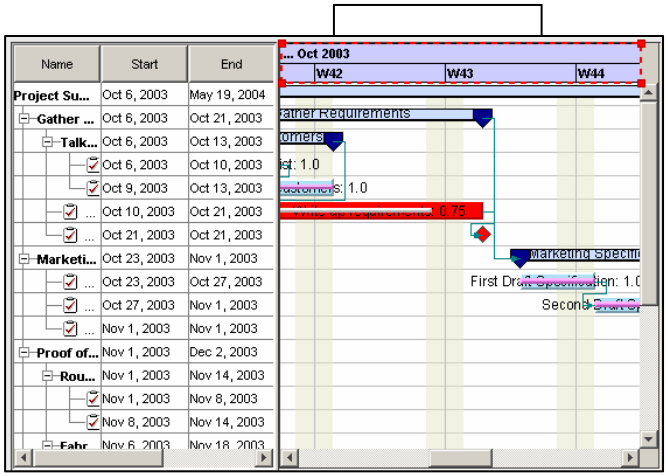
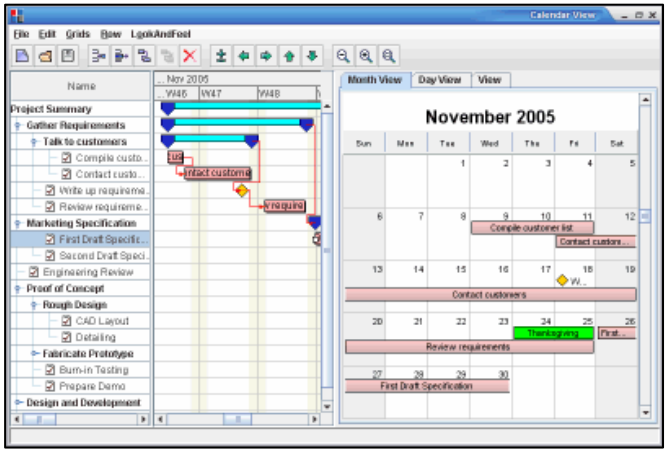
Gantt Charts

C++, Java, .NET, Flex





- Interactive schedules and plans
  - Task or resource oriented views
  - Resource load chart
  - Calendar view for final user
  - Critical path computation
  - Navigation and filtering through tree table
  - Project Management Option in .NET – complements MS Project for portfolio management apps
- Visual tool for fast parameterization
  - With static and dynamic styling
  - Visual Studio extensions with Gantt for .NET
- Rich Internet Applications
  - Ajax support (JSF, ASP.NET/AJAX)
  - Flex: Resource, Gantt chart, Calendar

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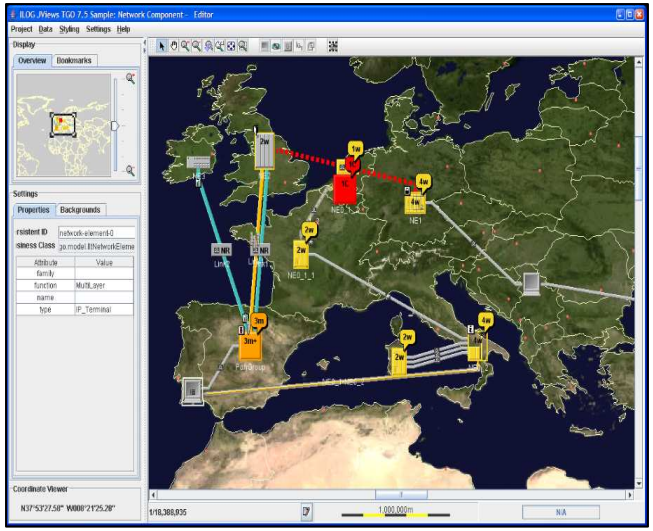
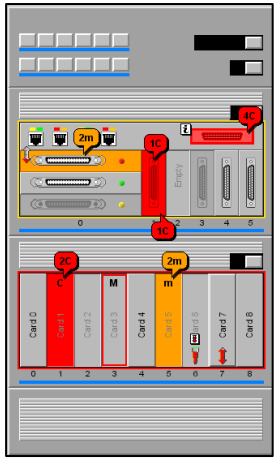
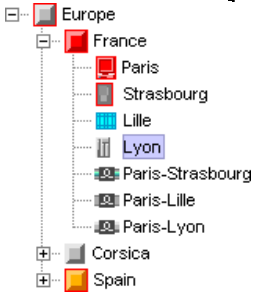
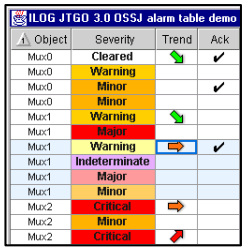
Telecom Graphic Objects

Java









- Ultimate GUI for
  - Service monitoring
  - Network management
  - Equipment management
- Complete network visualization
  - Logical and physical views
  - Graph layout
  - Easy front-to-back integration
  - Unified look-and-feel
  - Supports many standards
    - Including OSS/J and TMF
- Ajax support
- Includes Diagrammer and Maps

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Summary

- Saves development time
  - 80%+ of user interface development time
  - Includes many features that are difficult to create
  - Completely customizable
- Better End User experience
  - Displays that are more intuitive, offering better insight
  - More innovative displays
- Backed by a recognized software leader

"ILOG makes the possible easy, and the impossible, possible."

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Polling Questions

- Please rate the usefulness of this webinar on a scale of 1-5 …
  - 5 - Very useful
  - 4 - Somewhat useful
  - 3 - Neither positive nor negative
  - 2 - Not what I was looking for
  - 1 - Not useful at all
- Based on this presentation, do you have an interest in Visualization?
  - Yes
  - No
  - Not sure
- Is there anything else you would have liked to have seen covered in this webinar?
  - _____

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Question & Answer

Please send follow-up questions to:
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