

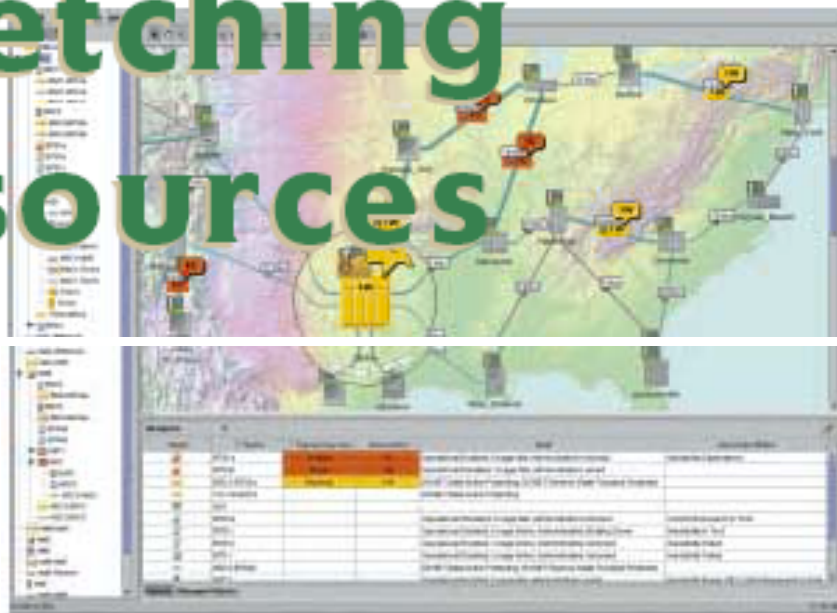
# **ILOG CONNECTION**

Also available at [www.ilog.com](http://www.ilog.com)

## Network Optimization

FOCUS

# Stretching Resources



communication

network

ILOG optimization software

telecommunication

real time

ILOG CPLEX

ILOG Solver

optimizers

traffic

|  |       |
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### Congestion Prevention

Network traffic 30% normal traffic condition . ILOG CPLEX traffic 70% heavy network traffic . network traffic pattern

ILOG CPLEX가 routing configuration 가

Parc Technologies([www.parktechnologies.com](http://www.parktechnologies.com)) ILOG CPLEX multi-protocol label-switching networks reroute backup tunnels bandwidth guarantee , network 가 가

Optimizer([www.infosim.net](http://www.infosim.net)) ILOG CPLEX networks 가 IP traffic . INFOSIM

### Fewer Internet Hops

routers hops series . hops ILOG CPLEX network hops

**Ensured Communication**

fiber call . fiber 1 가  
 traffic fiber traffic pattern  
 sampling network fiber가 , ILOG CPLEX  
 traffic .  
 rerouting ILOG Optimizer fiber call  
 가 traffic .

**Network Configuration**

Network . ILOG Solver  
 network (parameter) network working  
 plan .

**Profitability**

ILOG Optimization communications  
 ROI .

COMPANY NEWS

**ILOG Users Meeting 2002**

ILOG ILOG ILOG  
 , 가,  
 , ILOG  
 , 가  
 International Users Meeting



ILOG International Users Meeting  
 200  
 ILOG CEO Pierre Haren 4 29, 30  
 ILOG , R&D

2002

- 1) **Intensive developers Conference :** ILOG ,  
 suites technical session .
- 2) **Workshops :** ILOG 가 IT ILOG 5 .
- 3) **ILOG customer panel :** ILOG web service ,
- 4) **Meet ILOG experts :** ILOG 가 tip ,  
 가 .

PRODUCT NEWS

***ILOG JRules Wins SD Magazine - Jolt Cola Award***

700

application Business rules 가  
 Software Development Magazine([www.sdmagazine.com](http://www.sdmagazine.com)) SD 12  
 ILOG JRules Jolt Product Excellence and Productivity Awards .  
 Jolt Cola WetPlanet Beverages가 SD  
 700  
 25 .

“700

49  
 software development  
 .” SD Technical editor John Reitano .  
 Jolt Award Productivity Awards .  
 ILOG JRules ‘Libraries, Framework and Components’ Sun Microsystems J2EE  
 Trollteck Qt. Productivity Awards . Microsoft .NET Framework Jolt Award  
 . ILOG 1995 ILOG Views .

1 ILOG JRules Java application  
 가 Crossroads A-List Awards .

# ILOG CPLEX 8.0

## MIQP optimizer ILOG CPLEX8.0

ILOG CPLEX8.0 6 25  
 ILOG CPLEX8.0 mathematical programming optimizer  
 가

### MIP PERFORMANCE

ILOG CPLEX8.0 Mixed integer programming (MIP)

가 mixed integer optimizer가 40% 가  
 optimality gaps

### MIQP PROBLEMS



ILOG CPLEX Mixed integer quadratic programming(MIQP)  
 . MIQP quadratic objective functions, (integer  
 variables), (linear constraint)

ILOG CPLEX Mixed integer optimizer objective function quadratic  
 terms presolve, probing, cuts,  
 heuristics( ) MIQP 가 callbacks  
 MIP 가

### MIP SEARCH STRATEGY

MIP Search strategy “goals”  
 branching node selection  
 ‘goals’

### SIFTING ALGORITHM

가  
 가 100

**CONCURRENT OPTIMIZATION**

Multi-CPU 가  
 가  
 가 (concurrent optimization) LP  
 (LP) ,

CUSTOMER NEWS

**Oracle Goes Vertical with ILOG**



**NEW ILOG OEK, Oracle APS**



Oracle Corp.([www.oracle.com](http://www.oracle.com)) ILOG vertical needs , ILOG OEK(Optimization Extension Kit) Oracle APS(Advanced Planning and Scheduling) MOU(Memorandum of understanding)

ILOG OEK ,  
 supply chain planning & scheduling  
 Oracle APS

**NEED FOR CUSTOMIZATION**

" supply chain planning 가 initiatives 가 " AMR SCM "APS goes Vertical." " "Vertical product strategy , "

ILOG optimization supply  
chain .  
shop ,  
가 . 가

## DWL to Clear Records with Rules

ILOG JRules

DWL



ILOG JRules 가

가 , DWL ([www.dwl.com](http://www.dwl.com))

JRules CRM back-office transactions , DWL

DWL hub  
. ILOG JRules rules , DWL

“ 가 ILOG JRules

rule .” DWL  
Simon Chong . “ , ILOG JRules rule

ILOG ILOG JRules business rule engine  
가 rule 가 XML 가

# Logica Deploys New Rail Standard

ILOG visualization , Alstom Atlas



Logica Belgium([www.logica.com/be](http://www.logica.com/be)) ILOG Views ILOG Server  
 Atlas  
 , Alstom ERTMS( )  
 ERTMS - 6

Alstom([www.alstom.com](http://www.alstom.com)) Atlas , 가  
 ERTMS 가 . Alstom  
 Logica



. Logica ILOG Views ILOG Server Atlas  
 . ILOG ,  
 ILOG Visualization  
 . , ILOG

Rome-Naples

London Glasgow West Coast Main Line  
 가 , ETRMS

# PSA Renews Commitment



Portnet.com ILOG



ILOG Corporation Ltd. ([www.psa.com.sg](http://www.psa.com.sg)) ILOG

PSA

가 PSA 가  
 , Portnet.com Pte. Ltd., , ILOG  
 optimization, visualization, business rule 가  
 . PSA Portnet.com e-commerce , ILOG  
 . ILOG

“PSA  
 PSA Robert Yap . “ILOG  
 PSA  
 가 가  
 .”

PSA 123 600 250  
 . 2000 PSA 9 7 7 20foot  
 unit ,  
 25% .



PORTNET B2B e-business , 가  
 . PORTNET 7 , 6  
 가 . Portnet.com PORTNET ,  
 e-business PSA

# Federated Improves Airlift Scheduling



The Joint Operational Support Airlift Center (JOSAC), (DoD)  
 Federated Software Group ( [www.federated.com](http://www.federated.com) ) ILOG Solver Dispatcher  
 airlift scheduling system

“ 가 ILOG  
 ILOG

가 가

ILOG component - based



– Douglas Nelson, Ph.D. Principle Engineer, Federated Software Group

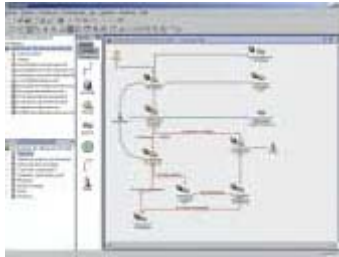
Scheduler’s Decision Support System(SDSS)  
 70 schedule manual system

“SDSS 가 JOSAC  
 Schedulers manual process  
 scheduler schedule  
 scheduler가 가  
 , schedule schedule .”

JOSAC 35  
 450 150 . 2001  
 JOSAC 4 30 . SDSS  
 JOSAC team

ILOG Dispatcher ILOG Solver , , ,  
 JOSAC  
 가 JOSAC planners가 manual system  
 가 schedule

## FlowMind Adds BPM Class



FlowMind platform workflow visualization Business Model interactive user display Business Model

Akazi Technologies ILOG JViews User

Akazi Technology flagship business process management FlowMind 3.3 Akazi Technologies([www.akazi.com](http://www.akazi.com)) 50% Workflow ILOG JViews

“ FlowMind가 Workflow ILOG JViews components 6 interface .” Akazi Technologies CEO Bernard Debauche

2001 AMR Research Report Eric Austvold “BRM market value가 2002 2003 2 FlowMind 10,000 가 platform

INTERVIEW WITH DR. MARTIN GRÖTSCHEL

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## ILOG CPLEX in Telecommunications



- Q: Optimization research ?
- A: Optimization 25 optimization  
combinatorial optimization, linear, integer, mixed integer programming
- Q: Telecommunication ?
- A: Telecommunication 15 Konrad-Zuse-Zentrum  
network topologies design, links and node , hubs ,  
failure handling, signal transfer points frequency assignment  
가  
topology design, , failure handling, routing  
telecommunications network optimization
- Q: , ILOG CPLEX ?
- A:  
가 optimization process subroutines  
linear, integer, mixed integer programming  
ILOG CPLEX  
가 LP IP solver ILOG CPLEX
- Q: ILOG CPLEX ?
- A: ILOG CPLEX가 code application pre-  
processing post-processing technology, 가 가  
10 LP Technology progress  
가 ILOG CPLEX LP solver 10 2

Q: ILOG CPLEX

?

A: 가 , ILOG CPLEX가

LP LP Solver

. Integer Mixed integer programming  
 solution

ILOG

CPLEX IP, MIP Solvers

. ILOG CPLEX가

가

telecommunication

가