

# UnifIN Opportunity Roadshow

.Telecomm UnifIN - a UnifINed  
framework for creating IN services  
fast and reliable

Page 1  
<http://www.telecomm.at>



## Company Introduction

- BDD Competences
  - Performance and Reliability Engineering
  - Telecommunications and Data Network Diagnostics
  - Software Development for Telephony, Data Networking and Client Server Applications
  - Call Centre Expertise

Page 2  
<http://www.telecomm.at>



## Company Introduction

- BDD History
  - founded 1988, privately owned
  - cooperation with
    - Cisco 1992
    - AT&T 1993 - 1996
    - Lucent Technologies 1996 - 2000
    - Aspect Communications 2000 - today
    - Telesoft Technologies 1994 - today

Page 3  
<http://www.telecomm.at>



## Company Introduction

- BDD Reference Snapshot
  - Mobilkom Austria
  - Hutchison 3G
  - Lucent Technologies
  - Hewlett Packard
- Contact:
  - BDD, Mag. Christian Dombacher**
  - Nikolaus Lenaugasse 8, A-2232 Deutsch-Wagram**
  - Tel: +43-2247-3504-0, [c.dombacher@ieec.org](mailto:c.dombacher@ieec.org)**

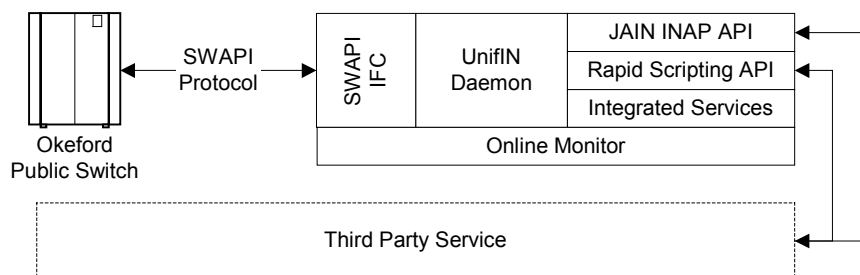
Page 4  
<http://www.telecomm.at>



## UnifIN Targets

- Provide an integration framework for IN services
- Standard based interface for NGNs: JAIN INAP
- Rapid Prototyping interface for accelerated service development & deployment
- Daemon included - no separate run time engines
- Debugging environment integrated - no further network diagnostic tools required during development
- Online monitoring capability

## UnifIN Architecture



## UnifIN Architecture

- JAIN INAP API shall provide
  - an API according to Sun's JAIN INAP 1.0 specification by acting as service provider interface
  - the flexibility to work with common JAIN and JAVA components (e.g. JDBC for database connections)

## UnifIN Architecture

- Rapid Scripting API shall provide
  - a common scripting interface enhanced by easy-to-use IN components
  - the possibility for rapid prototyping of IN services
- Integrated Services
  - based on the internal element-chain structure of UnifIN allowing for factory integrated services

## UnifIN Architecture

- Online monitor allows for
  - real time alteration of system and user level parameters
  - online monitoring of system relevant information
  - debugging during the development process
  - maintenance activities

## UnifIN Architecture

- UnifIN Daemon as backbone to the architecture provides
  - consistent state handling
  - enhanced failure management
  - service execution
- SWAPI Interface
  - connects to a public network switch of Telesoft Technologies' Okeford product range

# UnifIN Screenshots

```
adminat@bdd_pc8: /home/adminat
File Edit View Terminal Go Help
Current State:
-----
Keep Alive Detected: true

Service for Application 1 is RUNNING
Service for Application 2 is STOPPED
Service for Application 3 is STOPPED
Service for Application 4 is STOPPED

Link for Application 1 Congested: false
Link for Application 2 Congested: false
Link for Application 3 Congested: false
Link for Application 4 Congested: false

Application 1 bound to Okeford: OPEN
Application 2 bound to Okeford: CLOSED
Application 3 bound to Okeford: CLOSED
Application 4 bound to Okeford: CLOSED

Transaction State (UserID / DialogID) 1/27:    CLOSED
==>stop 1
```



# UnifIN Screenshots

```
adminat@bdd_pc8: /home/adminat
File Edit View Terminal Go Help
start <app>      ... start service for application <app>
stop <app>      ... stop service for application <app>
set debug on/off ... log all / debug mode
set message on/off ... log INAP messages
set state on/off ... log state information
set localaddr <la> ... set local address for BIND
set cli <cpn>   ... set CLI to change to
set destination <cpn> ... set number to redirect to

==>set cli 47114711
==>set destination 11
==>conf

Current Configuration:
-----
log all / debug mode : false
log INAP messages   : true
log state information : false
local address       : 0
cli replacement     : 47114711
redirect calls to   : 11
==>
```



Thank You !

Page 13  
<http://www.telecomm.at>

