Ascom@Net Framework
Ascom@Net Framework

• Objectives
  – Integrate DECT handset and business processes
    – Meeting the specific requirements of verticals
  – Leverage the business integration process from programming level to administration level
    – DB driven application
  – Technology independant abstraction layer (proxy, caching, address resolving, time-out, state-handling, error recovery...)
    – Provide easier-to-use interfaces (1 request / 1 response)
  – Capitalize experience available in IBS portfolio
    – Messenger@Net, Management@Net@Net LE, Phone@Net, MyPortal@Net, Guarding@Net, Cisco@Net, SMS Server, IVR, Sockets4U2, Send SMTP Message, AIDA...
Ascom@Net Framework
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[Diagram of a mobile phone with labels for LED, Alarm button, Loudspeaker, Display, Volume button, Mute button, Call key, Menu key, Navigation key, and Alpha numeric keys.]

[Image of a mobile phone with the time 13:22, user A Brown, and buttons for Info, Doctor, and Jobs.]

[Diagram of soft keys with a note: Max. seven characters can be used for naming a Soft key.]

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Ascom@Net Framework
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Alarm Systems
(Fire Detection, Nurse call, Access Ctrl, etc)

External Relay Contacts

Incoming call

E-mail

Web input & scripting

IT infrastructure (Guarding@Net)

SMS

DECT location

Alarm!

Non-interactive DECT messaging

Interactive DECT messaging

SMS/PAGER - Messaging

Voice-messaging

External Relay Contacts

E-mail and Win32 popup

Web User Interfaces

Configuration tool

Concentrated Database

Configuration tool

Web User Interfaces
This form allows you to maintain existing groups in the SOPHO Messenger@Net database. Unless your user profile has all object special authority, you can only access those groups you are granted authority to.

Step 2 - Please select a device, or return to step 1.

<table>
<thead>
<tr>
<th>Site 1 - Area 1</th>
<th>Site 1 - Area 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input program 11601 - eIO</td>
<td>NATIONAL INSTRUMENTS - *BASE</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Group 11601_00001</th>
<th>00001 - Test from eIO</th>
</tr>
</thead>
</table>

- **(add a device)**
- **1.1 : 32479467238 - eSMS** 08:30 - 17:30 [13/04/2004 - 31/12/2099]
- **1.1 : 865 - eDMSAPI** 00:00 - 23:59 [21/10/2001 - 01/01/2099]
- **1.1 : 9789074 - eASYNC** 00:00 - 23:59 [00/00/0000 - 31/12/2099]
- **1.1 : DO_02_01 - eIO** 00:00 - 23:59 [00/00/0000 - 31/12/2099]

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Web User Interfaces

Win32 User Interfaces
<table>
<thead>
<tr>
<th>Services</th>
<th>Patient bed 1</th>
<th>Patient bed 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open door</td>
<td>Current pulse is 80</td>
<td>Current pulse is 200</td>
</tr>
<tr>
<td>Get lab results</td>
<td>← Ok</td>
<td>← Ok</td>
</tr>
<tr>
<td>Require wheelchair</td>
<td>← Change medication</td>
<td>← Change medication</td>
</tr>
<tr>
<td>Add</td>
<td>← Call emergency team</td>
<td>← Call emergency team</td>
</tr>
<tr>
<td>Delete</td>
<td>Delete</td>
<td>Delete</td>
</tr>
<tr>
<td>Select</td>
<td>Exit</td>
<td>Exit</td>
</tr>
</tbody>
</table>

Select
Ascom@Net Framework

Welcome

Please select an Application Program Interface:
- Send Message
- Send Interactive Message

Inquiry of transactions is available through the search functions.

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### Ascom@Net Framework

#### Send Message

[back](#)

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>To</td>
<td>180000 - Francis Missiaen</td>
</tr>
<tr>
<td>Subject</td>
<td>Ascom@Net Framework</td>
</tr>
<tr>
<td>Body</td>
<td>This is a test message</td>
</tr>
<tr>
<td>Priority</td>
<td>6 - normal</td>
</tr>
<tr>
<td>Beep code</td>
<td>02</td>
</tr>
<tr>
<td>Acknowlegde</td>
<td>Accept and Reject</td>
</tr>
<tr>
<td>Wait</td>
<td>Acceptance</td>
</tr>
<tr>
<td>Timeout</td>
<td>30</td>
</tr>
</tbody>
</table>

Error. Subject must be entered.
Ascom@Net Framework

Send Interactive Message

[back]

To: 18000 - Francis Missiaen
Subject: Subject
Body: Severe hardware problem with IBM iSeries
Option 1: Call IBM
Option 2: Call EDP
Option 3: Reboot
Priority: 3 - high
Beep code: 02
TTL: 60
Wait: Acceptance
Timeout: 30

Submit

Error. Subject must be entered.
## Search

| CFG - SNMP
| CFG - Devices
| CFG - Locations
| CFG - SNMP
| OAP - Message
| OAP - Interactive Message
| OAP - Alarm
| OAP - User Data
| API - Send Message
| API - Send Interactive Message |
|---|---|---|---|---|
| Port | Version | Community | Enterprise OID | Generic |
| 162  | 1       | public     | 1.3.6.1.4.1.17338.110.1 | 6       |
| 162  | 1       | public     | 1.3.6.1.4.1.17338.110.1 | 6       |
| 162  | 1       | public     | 1.3.6.1.4.1.17338.110.1 | 6       |

Please enter search criteria, then press Enter.

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Ascom@Net - PHP

- PHP is a server based scripting engine
- Can run on many platforms
  - Win32
  - Unix and Linux
  - iSeries
    - PASE
    - LPAR
- Very powerful engine
- Very popular on www
Ascom@Net for iSeries
Ascom@Net for iSeries

Send OAP Message (SNDORPMSG)

Type choices, press Enter.

Beep code ............ 0-99
Type of acknowledge .... *REJECT*

Additional Parameters

Remote IP address ........ '10.110.50.138'
Remote port ............ 09191 0-65535

F3=Exit  F4=Prompt  F5=Refresh  F12=Cancel  F13=How to use this display
F24=More keys

05/037
I902 - Session successfully started
**Ascom@Net for Win32**

![Cisco@Net for Win32 - v4.4.414](image)

<table>
<thead>
<tr>
<th>Destination</th>
<th>Francis Missiaen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Push2Phone</td>
<td><a href="http://10.110.50.138:8080/request=mnurqs&amp;menu=Main">http://10.110.50.138:8080/request=mnurqs&amp;menu=Main</a></td>
</tr>
<tr>
<td>Framework</td>
<td>127.0.0.1 9090</td>
</tr>
</tbody>
</table>
| Logging           | xmlDoc version="1.0"?><request><extension>Francis Missiaen<br/>xmlDoc version="1.0"?><reply><url>http://10.110.50.138:8080</url></reply></extension></request></xml>
Ascom@Net SMS Services

GSM mobile network

Inbound
Outbound

Adding inbound/outbound SMS

iSeries
Win32
Lotus Notes
Web
IP Phones ...

Ascom@Net Framework
Ascom@Net SMTP Service

Internet
Intranet

Email
Client

Web
Browser

iSeries
Win32
Lotus Notes
Web
IP Phones
...

Adding email functionality
Ascom@Net Socket Services

Web Browser iSeries

enter search in Flash "BERDOOLAM"
build xml
send receive
parse xml calc phoneme read data build xml
receive send
parse xml
show result in Flash "Perdolan…"

Adding iSeries legacy code integration
Ascom@Net - AIDA

Adding iSeries DB2/EDI/XML integration
Ascom@Net OPC Services

Adding Distributed IO modules

Analog Input
Digital Input
Digital Output

FieldPoint

NATIONAL INSTRUMENTS™
Ascom@Net SNMP Services

- CiscoWorks ITEM
  - Traps
  - Synthetic Traffic
  - Polls & Pings

- E-mail and pager
- Trap forwarding

- IP Phone Help Desk Utility
- Desktop

- Adding SNMP support
- Web-based access

MD110
Adding SNMP support
Ascom@Net – Guarding iSeries

Adding iSeries monitoring
Ascom@Net SOAP Services

Adding Microsoft .NET integration
Ascom@Net IVR Services

Some references:
- Vlaamse Maatschappij voor watervoorziening
  - JAVA & COM interface with mainframe
  - Interactive Voice Response – call 0800 40 707
    - Entering water metering value
    - Notification of gas leak and water leak
    - Front-end to call-center
    - Additional features: invoice inquiries...
- Philips
  - Project part of Messenger@Net suite
    - Alarm generation, alarm confirmation
    - Alarm notification through voice messages

Adding IVR integration
Ascom@Net IVR Services

- **Securis - Securitas**
  - Sockets4U2 interface with iSeries inhouse developed VisualAge for SmallTalk application
  - Interactive Voice Response for
    - Communication to mobile guards
    - Call-off procedures, instructions...
    - Also: radio communications, GPRS...

- **IBS T&S**
  - Project initiated by SML
    - Phone@Net - Voice Mail (*72480/#72)
    - CHIP (Computerized Helpdesk Information Program) - Helpdesk integration with Domino mail and Domino Kelros CRM package...

Adding IVR integration