



EXTERNAL SERVICE INTERACTION MODEL2SMS NOTIFICATION

Agenda



- ▶ **Prerequisites**
- ▶ Hands On Sessions:
 - ▶ Definition of Model Structure on ADOxx
 - ▶ Implementation of the SMS Service
- ▶ Q&A

Prerequisites for SMS service



- ▶ ADOxx v 1.3
download at www.adoxx.org
- ▶ GnuWin32 Wget
download at <http://downloads.sourceforge.net/gnuwin32/wget-1.11.4-1-setup.exe>
- ▶ SMS Server / Provider
register at a SMS SP: e.g. www.dialnow.com, www.clickatell.com

Prerequisites for SMS service



Setup

After installing the required prerequisites:

- ▶ Import the ABL and ADL files or create classes manually
- ▶ Store the SendSms.bat file at C:\ drive*.
- ▶ Update the SendSms.bat file with credentials from your SMS service provider
- ▶ If required change your installation path for the GnuWin32 Wget.
- ▶ Check if you are using a proxy to access the internet and adapt the SendSms.bat accordingly
- ▶ Test the setup using "echo" line in the SendSms.bat

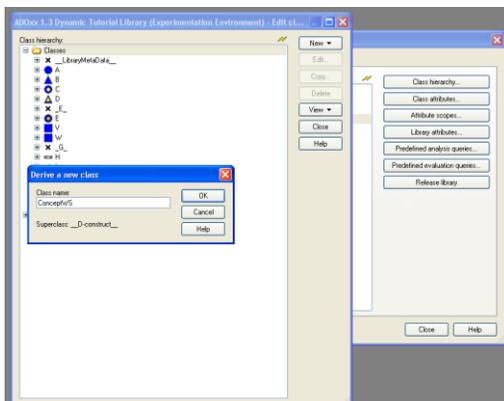
* If you do not have access rights to write/read from C drive then place it somewhere else and adapt the scripts accordingly

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Definition of Modelling Language on ADOxx

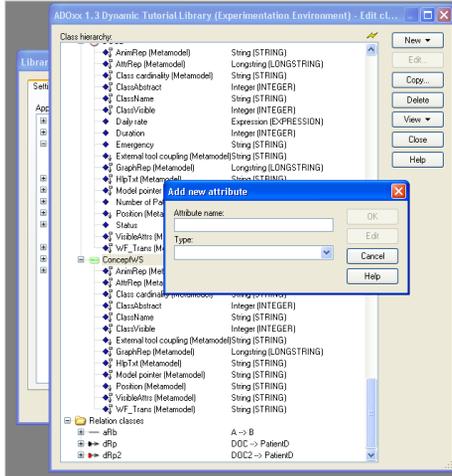
Define Classes,
Attributes and Model
Types



1. Open Library Management
2. Create the "Product" class if not existing (from Semantic Lifting demonstration)

Definition of Modelling Language on ADOxx

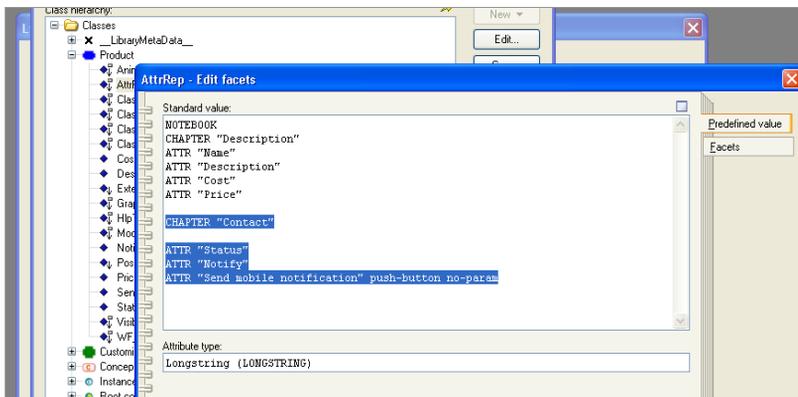
Define Classes,
Attributes and Model
Types



1. For Class "Product"
2. If not existing
3. Create following Attributes:
 1. Status (ENUMERATION)
 2. Notify (STRING)
 3. Send Mobile Notification (PROGRAMCALL)

Definition of Modelling Language on ADOxx

Define Classes,
Attributes and Model
Types



1. Select AttRep Attribute of the Product class
2. Adapt AttRep code to make newly created attributes visible in the Notebook

AdoScript for SMS Service

AdoScript Code

```
ITEM "Send mobile notification"

SET my_objid: (STR objid)
SET myobjid: (VAL my_objid)

CC "Core" GET_ATTR_VAL objid:(myobjid) attrname:("Name")
SET nameValue:(val)
CC "Core" GET_ATTR_VAL objid:(myobjid) attrname:("Status")
SET statusValue:(val)
CC "Core" GET_ATTR_VAL objid:(myobjid) attrname:("Notify")
SET notifyValue:(val)

IF (statusValue = "OK") {
  SET smsText:("Status of the Product: "+ nameValue+ " is OK")
}
ELSE {
  SET smsText:("Status of the Product: "+ nameValue+ " is not OK")
}

CC "Core" GET_ATTR_VAL objid:(myobjid) attrname:("Notify")
IF ((LEN val)>0)
{
  SET t1:(val)
  SET t2:(smsText)
  SYSTEM ("C:\SendSms.bat \"'+t1+'\" \"'+t2+'\"")
  CC "AdoScript" INFOBOX ("Notification has been submitted for delivery")
  EXIT
}
}
```

Execution File for SMS Service (1/2)

AdoScript Code

```
:: Following lines document the code executed using the SendSms.bat file

::Get values from ADOxx
SET _tel=%1
SET _txt=%2

:: Removes the quotes from values retrieved from ADOxx for _tel Variable
SET _tel=###%_tel###
SET _tel=%_tel:"###"=%
SET _tel=%_tel:###"=%
SET _tel=%_tel:###"=%

:: Remove quotes from values retrieved from ADOxx for _txt Variable
SET _txt=###%_txt###
SET _txt=%_txt:"###"=%
SET _txt=%_txt:###"=%
SET _txt=%_txt:###"=%

:: If you do not have a direct connection to internet please use following line to set proxy
:: SET http_proxy=10.0.1.8:8000
```

Execution File for SMS Service (2/2)

AdoScript Code

```
:: Send SMS using Dialnow.com as SMS Provider - line starting with echo keyword is just for testing
:: Please exchange XXX = your username, YYY = your password, ZZZ = your phone number

:echo
"https://www.dialnow.com/myaccount/sendsms.php?username=XXX&password=YYY&from=+ZZZ&to=%_tel%&text=%_txt%">
index.txt
:C:\Programme\GnuWin32\bin\wget.exe --no-check-certificate
"https://www.dialnow.com/myaccount/sendsms.php?username=XXX&password=YYY&from=+ZZZ&to=%_tel%&text=%_txt%"

:: Send SMS using Clickatell.com as SMS Provider - line starting with echo keyword is just for testing
:: Please exchange XXX = your username, YYY = your password, ZZZ = your API ID

:echo "https://api.clickatell.com/http/sendmsg?user=XXX&password=YYY&api_id=ZZZ&to=%_tel%&text=%_txt%">
index.txt
C:\Programme\GnuWin32\bin\wget.exe --no-check-certificate
"https://api.clickatell.com/http/sendmsg?user=XXX&password=YYY&api_id=ZZZ&to=%_tel%&text=%_txt%"
```

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Further Questions?

tutorial@adoxx.org