innovaphone Compatibility Test Report

Vendor: ESTOS

Model: Metadirectory

Last Update: Friday, 12 November 2004

1 Background Information

1.1 Installation

We used following software: ESTOS Metadirectory, Build 1.0.0.43.

We have installed the software on a Windows 2000 Professional Workstation (with Windows 2000 5.00.2194, Service Pack 4). The software can be downloaded from the company's web (www.estos.de). It requires a hardware based license key. However, a test license is available.

Installation requires administrator privileges.

1.2 MetaDirectory Configuration
We have tested the following setup:

1.2.1 Database
Local setup, that is, the LDAP Server and the Data connectors are in the same machine, default Port 712.

1.2.2 Data Source type Microsoft™ Active Directory
Retrieves the user information from the Microsoft user repository.

- ?? Data Format is "Active Directory Server"

- ?? As a use account, the SYSTEM account is used.

- ?? Sever type is "Active Directory Server"

- ?? Server name is the NetBIOS name of your domain controller

- ?? Port is default (389)

- ?? We did not use SSL nor the Glocal Catalog

- ?? Log-in to the Active Directory automatically (using Domain Authentication)

- ?? Search base is set to the Microsoft Domain Name converted to LDAP style (that is, if your domain name is "company.org", then your search base is "DC=company,DC=org").

- ?? Search Filter is "(objectCategory=person)"

Estos-metadir.doc vom 12.11.04 / gedruckt am 12.11.04

(erstellt am 24.08.04 von innovaphone Test Lab in D:\EIGENE DATEIEN\SRC\TESTLAB\ZERTIFIZIERUNGEN_ESTOS\ESTOS -METADIR.DOC, zuletzt geändert von innovaphone Test Lab am 12.11 2004)

?? No search in subdirectories (although setting this should not hurt)

?? We left the attribute mapping as suggested by default

?? Country and Region options to be set according to your PBX configuration

?? We have chosen an hourly replication

1.2.3 Microsoft™ Exchange

Retrieves Contact data from a Microsoft Exchange shared contact folder

?? Data Format is "Microsoft Outlook/Exchange"

?? As a user account, the Administrator account of the domain the Exchange Server is running in was used

?? The connector needs a system MAPI profile. Add this via *System Control Panel / Mail*. We created a standard Profile called "metadir" which allows access to the Exchange server. As password the password of the user specified above as user account is required

?? The appropriate public folder (containing contact records) was selected

?? We left the attribute mapping as suggested by default

?? Country and Region options to be set according to your PBX configuration

?? We have chosen an hourly replication

1.2.4 innovaphone PBX directory

Retrieves all PBX users into the database. Note that this is not strictly required since the IP200 will retrieve local PBX users anyway (if not disabled). However, defining this connector will include all local PBX users in the global LDAP too so that they are available to other applications in canonical form.

?? Data Format is "LDAP Server"

?? As a use account, the SYSTEM account is used.

?? Server Type is "LDAP Server", Version 3

?? Servername is your innovaphone PBX's IP address, Port is default (389), do not use SSL, use "Paged Search"

?? Use "Manual Authentication" and provide the user/password you haves pecified for the read-only LDAP access in your innovaphone gateway LDAP Server configuration (just use the straight account name, e.g. "ldap-guest", no "cn=" syntax)

?? Search base is "cn=PBX0", Filter is "(objectClass=*)", there are no subdirectories available

?? The attribute mapping must be done carefully. We suggest:

MetDirectory Attribute	PBX LDAP Attribute
Primary key / Primärschlüssel	guid
Surname / Nachname	cn
Business email / E-Mail geschäftlich	h323
Business Phone / Telefon Geschäftlich	e164
Department / Abteilung	loc

MetDirectory Attribute	PBX LDAP Attribute
Unassigned	dn, hw-id, objectclass, pbx, usn

?? Country and Region options to be set according to your PBX configuration

?? We have chosen an hourly replication

1.3 Installation and Configuration of the innovaphone components

We used 04-5765 for IP400 and IP800/3000.

1.3.1 innovaphone PBX

The LDAP Server configuration on the PBX must have the same user and password as in 1.2.4.

We used the IP 400 with the Firmware: V5.01 hotfix IP400[04-5765], Bootcode[322], HW[102] 2048/4096

1.3.2 IP 200

To take advantage of the consolidated LDAP database, you need to enable the "LDAP from external server":

?? Enable external LDAP server access

?? IP Address: the IP of your MetaDirectory Server

?? Port 712

?? Distinguished Name and Password left empty

?? LDAP mode: basic

?? LDAP Directory Base: dc=meta

?? Object Filter: left empty

?? The attribute mappings are left as defaults:

Attribute 1	sn
Attribute 2	givenName
Attribute 3	company
Phone 1	telephoneNumber
Phone 2	homePhone
Phone 3	mobile
Phone 4	Left empty

?? To make sure phone numbers are mapped correctly, define the "Phone location (prefixes)" correctly

2 Test Results

We tested LDAP access from the IP200 to the MetaDirectory for both incoming caller id resolution as wells outgoing phonebook-based dialling.

Both functions work fine with remarkable performance.

3 Summary

The installation using the setup program is straight forward and the application worked as expected.

ESTOS MetaDirectory is added to the innovaphone recommended product list.