## **ESTOS MetaDirectory**

version 2.0.0.1609 and above

Adding custom LDAP ObjectClasses and Attribute Name Mapping for custom data output purposes.

Contact at ESTOS:

Jan Riewenherm jan@estos.de

Created by:

Alessandro Zampieri aza@innovaphone.com

## INTRODUCTION

With old standard versions of Metadirectory we had the problem of being unable to add custom LDAP "ObjectClasses" and to perform an effective Attribute Name Mapping.

Only the ObjectClass "ContactPerson" was presented outside the Metadirectory and the internal attribute mapping (Database Fields) turned out to be useless when browsing the LDAP database with an external browser as the mappings weren't displayed as expected.

## FEATURE DESCRIPTION

Now ESTOS provided such possibility by adding to the Metadirectory a link to an external file: innovaphonespecial.termxml.

This file should be placed in \$INSTALL\_DIR\$\config\default.
Below an example of a customized innovaphonespecial.termxml file:

```
<dcSettings Version="1.0">
```

<Terminal>

- <TerminalName>Innovaphone Special</TerminalName>
- <SearchPhonebooksOnlyOnEmptyHitList>1</SearchPhonebooksOnlyOnEmptyHitList>

```
<SearchSpecialCharacters>1</SearchSpecialCharacters>
```

- <OnlyResultsWithsPhoneNumbers>1</OnlyResultsWithsPhoneNumbers>
- <OnePhoneNumberPerResultEntry>0</OnePhoneNumberPerResultEntry>
- <AlwaysSort>1</AlwaysSort>
- <SortAttribute>displayName</SortAttribute>
- <CharacterSet>0</CharacterSet>
- <UseMaxLengthResultAttributes>0</UseMaxLengthResultAttributes>
- <MaxLengthResultAttributes>100</MaxLengthResultAttributes>

<QueryFilterMapping>

<string< th=""><th>  Key=<mark>"commonName"</mark>&gt;<mark>displayName</mark></th></string<>	Key= <mark>"commonName"</mark> > <mark>displayName</mark>
<string< th=""><th>Key=<mark>"sn"</mark>&gt;<mark>sn</mark></th></string<>	Key= <mark>"sn"</mark> > <mark>sn</mark>
<string< th=""><th>Key=<mark>"ou"&gt;company</mark></th></string<>	Key= <mark>"ou"&gt;company</mark>
<string< th=""><th>Key=<mark>"uid"</mark>&gt;<mark>entryID</mark></th></string<>	Key= <mark>"uid"</mark> > <mark>entryID</mark>
<th>apping&gt;</th>	apping>
<queryattribut< th=""><th>eMapping&gt;</th></queryattribut<>	eMapping>
<string< th=""><th>Key="commonName"&gt;displayName</th></string<>	Key="commonName">displayName
<string< th=""><th>Key="sn"&gt;sn</th></string<>	Key="sn">sn
<string< th=""><th>Key="ou"&gt;company</th></string<>	Key="ou">company
<string< th=""><th>Key="uid"&gt;entryID</th></string<>	Key="uid">entryID
<th>teMapping&gt;</th>	teMapping>
<resultattribu< th=""><th>teMapping&gt;</th></resultattribu<>	teMapping>
<string< th=""><th>Key="displayName"&gt;commonName</th></string<>	Key="displayName">commonName
<string< th=""><th>Key="sn"&gt;sn</th></string<>	Key="sn">sn
<string< th=""><th>Key="company"&gt;ou</th></string<>	Key="company">ou
<string< th=""><th>Key="entryID"&gt;uid</th></string<>	Key="entryID">uid
<th>uteMapping&gt;</th>	uteMapping>
<additionalobj< th=""><th>ectClasses&gt;</th></additionalobj<>	ectClasses>
<class></class>	<mark>inetOrgPerson</mark>
<class></class>	<mark>OrganizationalPerson</mark>
<th>jectClasses&gt;</th>	jectClasses>
nal>	

```
</Terminal </dcSettings>
```

Highlighted you see the INPUT map, the desired OUTPUT and the custom LDAP OBJECTCLASSES.

In this release version, this feature was not enabled by default and the innovaphonespecial.termxml file was not installed during installation.

To enable the feature the text above can be copied into a simple text file and renamed. The new file must now be copied to: \$INSTALL\_DIR\$\config\default.
Last step is to start the Metadirectory and add an LDAP NODE in Database Management.

File Tools View Help	or y					>
Folder List	LDAP database structure:	<b>*</b>	- Available datab	ases Type LDAP Recreate database Instion	Status OK OK Remove Data	
Telephone directories     Telephone directories     TwixTel     TwixTel     TwixTel     Database query     Database search     Database search     Satus monitor     Server log	Add Remove Properties		Element	There are no i	Value tems to show.	

Illustration 1: new node.

Select the new node and click on the *Properties* button below. In the pop-up window click the section *End device support* and select *Innovaphone Special* in the *Settings for PBX system*.

ESTOS MetaDirectory Administrator File Tools View Help	
Folder List       DAP database structure:         Configuration       Leanse settings         Leanse settings       Leanse settings         Leanse settings       Codemic         Location       Settings for PBX system:         Locatabase fields       Vexture:         Vexture:       Settings for PBX system:         Locatabase fields       Vexture:         Vexture:       Search astings:         End settings:       End device support         Vexture:       Telephone directories         Vexture:       Codewide         Database fields       For only down and second for discritical charact innovaphone IP2000         Web services       Result settings:       Innovaphone IP2000         Web services       End device supports only one phone numbers       Innovaphone IP2000         Web Services       End device supports only one phone numbers       Innovaphone IP2000         Database equery       Database search       End device supports only one phone numbers       Ionophone IP2000         Database equery       Database search       End device suports only one phone numbers to       Ionophone	Status OK OK Remove Data
Add Remove	

Illustration 2: Settings for PBX system: Innovaphone Special

At this point and after each modification of the innovaphonespecial.termxml file, it's recommended to perform a disconnection from the Metadirectory server and a restart of the service (services.msc) (Illustration 3 and 4).



Illustration 3: disconnect from MetaDirectory server

Mapi-CD-Brenn-COM-Dien	Verwaitet da		manacir	LONGIC.	₹5ystem	
🛞 IIS Admin	Ermöglicht di	Gestar	Hilfe		System	
HTTP-SSL	Implementier	nplementier Gestar		Eigenschaften		
hpqwmiex		Gestar			System	
Hilfe und Support	Aktiviert das	Gestar Gestar	Aktualisieren		System	
HID Input Service	Ermöglicht ei		Alle Aufgaber	n 🔸	System	
Google Updater Service	1.70		Theoret of the		System	
Geschützter Speicher	Bietet geschü	Gestar	Neu starken		System	
Gatewaydienst auf Anwen	Bietet Unters	Gestar	Fortsetzen		Dienst	
Fehlerberichterstattungsdi	Ermöglicht di	Gestar	Anhalten		System	
Extensible Authentication-P	Stellt Window		Beenden		System	
ESTOS MetaDirectory	MetaDirector	Gestar	Starten		System	
Ereignisprotokoll	Ermöglicht di	Gestar	Automatisch	Lokale:	es System	
Druckwarteschlange	Lädt die Date	Gestar	Automatisch	Lokales Syst		
DNS-Client	Wertet DNS Gestar Autor		Automatisch	Netzwerkdie		
Distributed Transaction Co	Koordiniert Tr	Gestar	Manuell	Lokales System Netzwerkdienst		
🖏 Dienst für Seriennummern	Ruft die Serie		Manuell			
DHCP-Client	Verwaltet die	Gestar	Automatisch	Lokale:	s System	

Illustration 4: restart ESTOS MetaDirectory service

## NOTES

This solution was successfully tested with open-source Penrose virtual directory server:

http://docs.safehaus.org/display/PENROSE/Home

und