

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*](mailto: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 Key="commonName">displayName</String>
      <String Key="sn">sn</String>
      <String Key="ou">company</String>
      <String Key="uid">entryID</String>
    </QueryFilterMapping>
    <QueryAttributeMapping>
      <String Key="commonName">displayName</String>
      <String Key="sn">sn</String>
      <String Key="ou">company</String>
      <String Key="uid">entryID</String>
    </QueryAttributeMapping>
    <ResultAttributeMapping>
      <String Key="displayName">commonName</String>
      <String Key="sn">sn</String>
      <String Key="company">ou</String>
      <String Key="entryID">uid</String>
    </ResultAttributeMapping>
    <AdditionalObjectClasses>
      <Class>inetOrgPerson</Class>
      <Class>OrganizationalPerson</Class>
    </AdditionalObjectClasses>
  </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*.

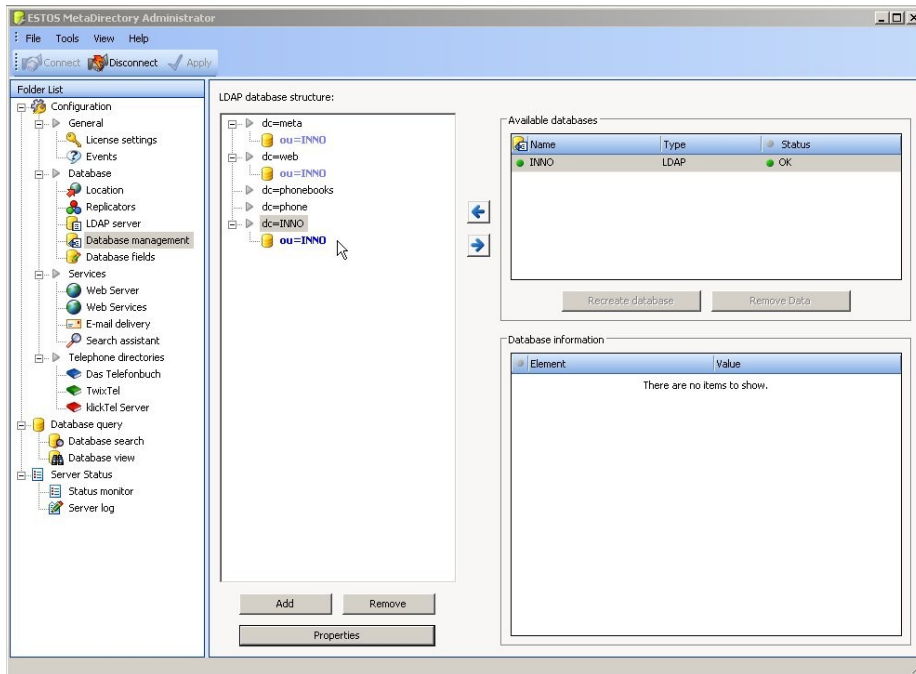


Illustration 1: new node.

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*.

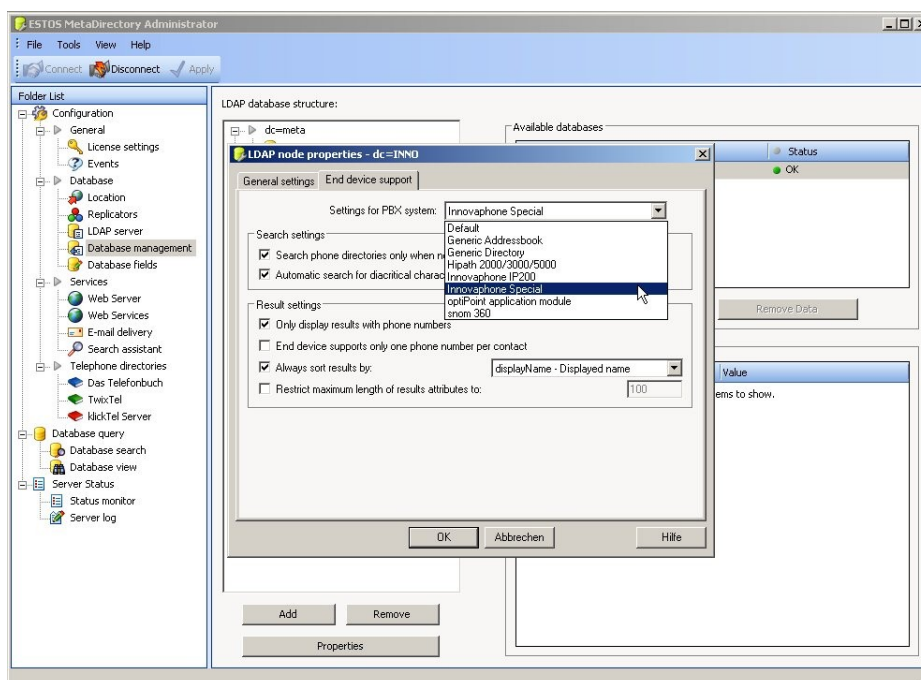


Illustration 2: Settings for PBX system: Innovaphone Special

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).

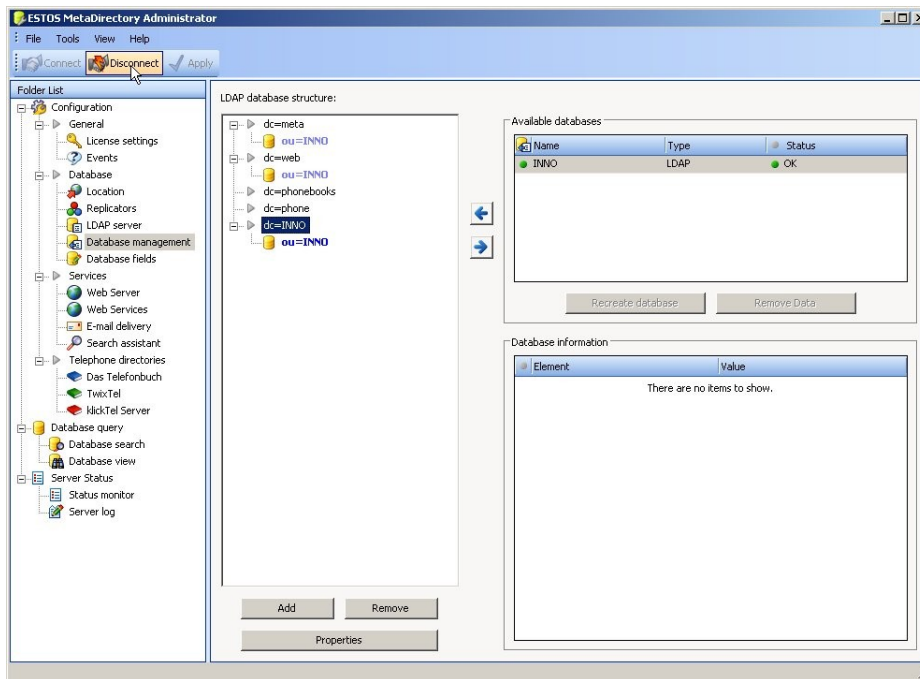


Illustration 3: disconnect from MetaDirectory server

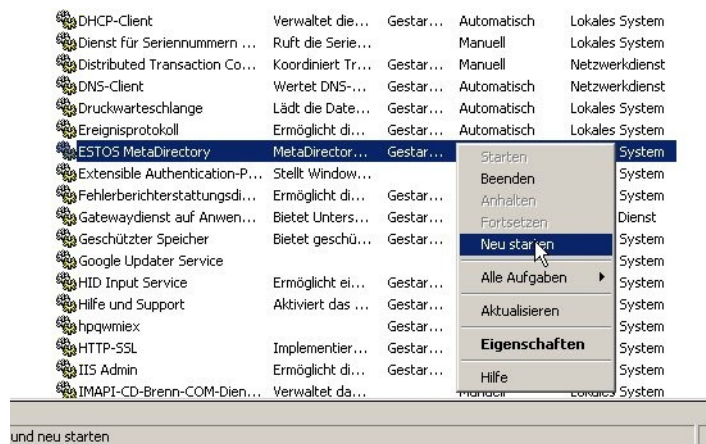


Illustration 4: restart ESTOS MetaDirectory service

NOTES

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

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