



Cleaning LoriotPro MIB tree

Remove MIB entry from the MIB tree

This document explains how to reset the **MIB database** and clean the **MIB tree** from all entries.

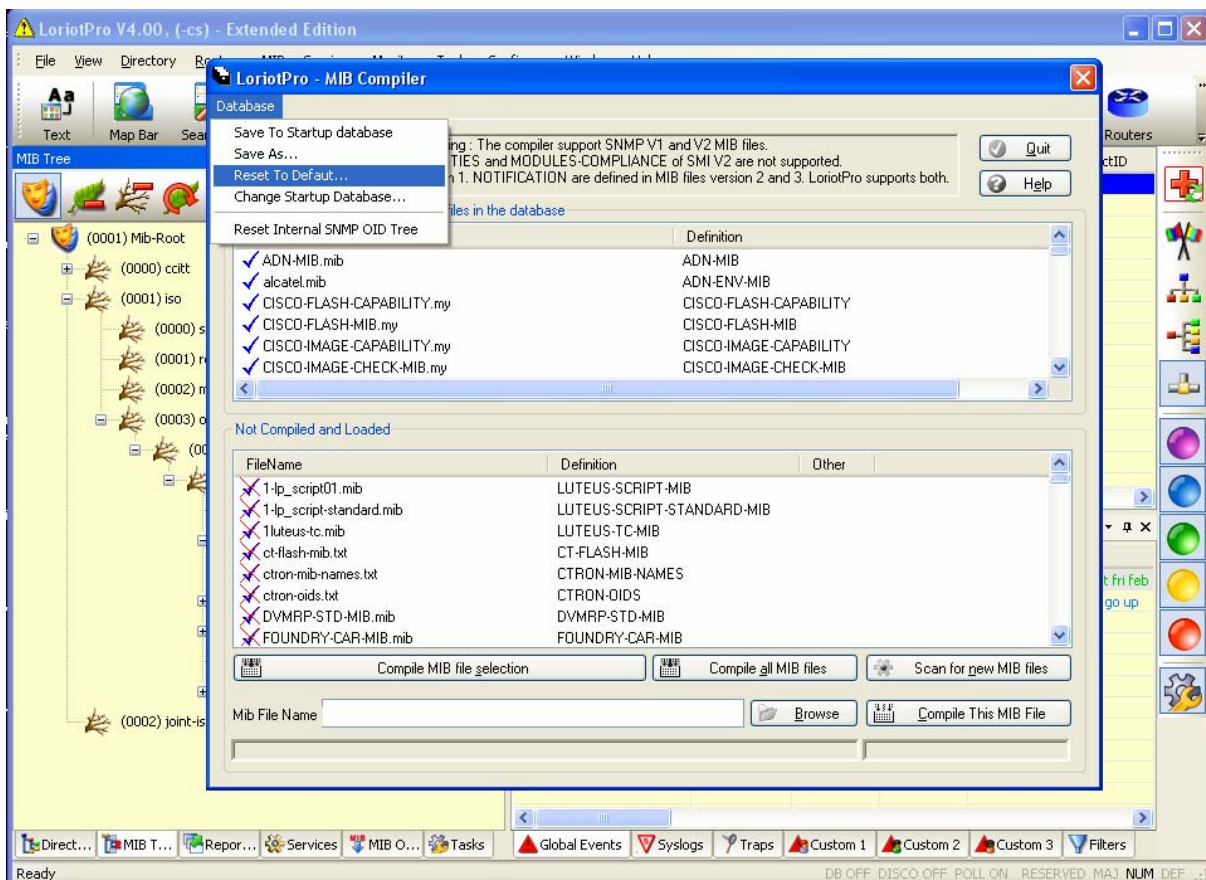
The MIB tree of LoriotPro is created at startup and use the MIB database file. **With the MIB compiler it is always possible to add new MIB files into the MIB Database but not to remove them. The only way to suppress and existing MIB file is to clean the entire tree and to restart the compilation of the desired MIB files.**

The role of the MIB database is to perform snmp object name resolution to oid value. For example a request to the **sysname** object within any LoriotPro application will trigger a browse of the MIB tree starting from the root. When the **sysname** object will be found in the tree the oid of that object (1.3.6.1.2.1.1.5.0) will be deduced and use for the SNMP GET request.

We will see step by step how to proceed and come back to the initial MIB tree that you can see after the first LoriotPro installation and startup.

This document also explains how to clean the **Enterprise** MIB branch of all or some enterprise entries.

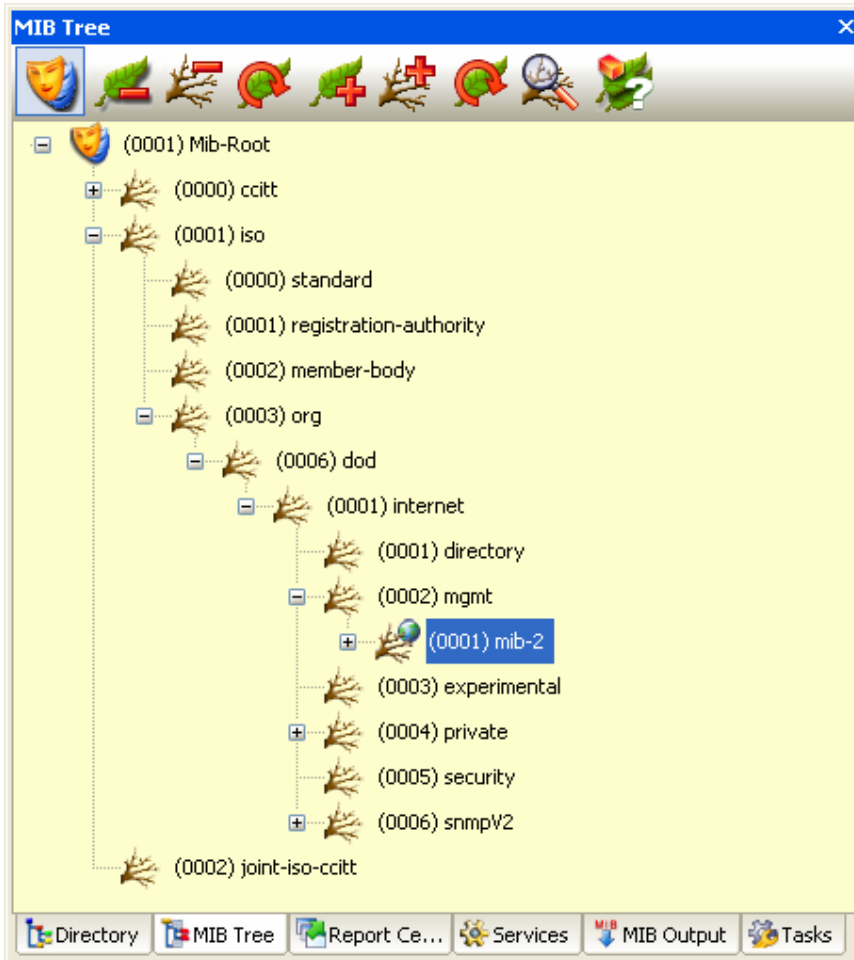
Open the MIB compiler, select the **Database** Menu option and the **Reset To default** option.



Quit the MIB Compiler and LorientPro.

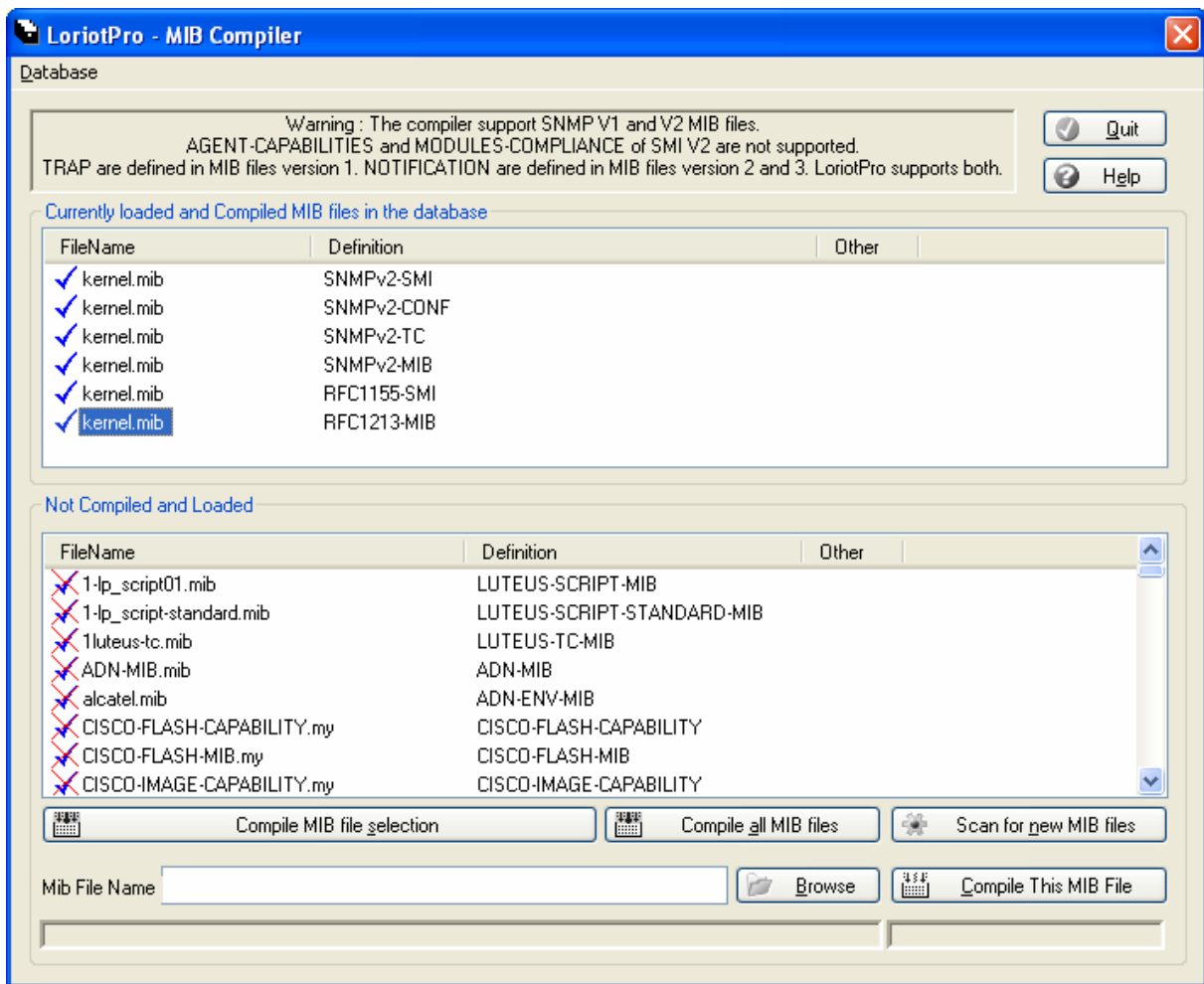
Delete the `/bin/config/mib-database/lmib.lida` file and `/bin/config/mib-database/lmib.bak`
Delete `/bin/lmib.txt` and `/bin/lmib.dat`.

You can restart LorientPro, your MIB tree should be restricted to the minimum entries.



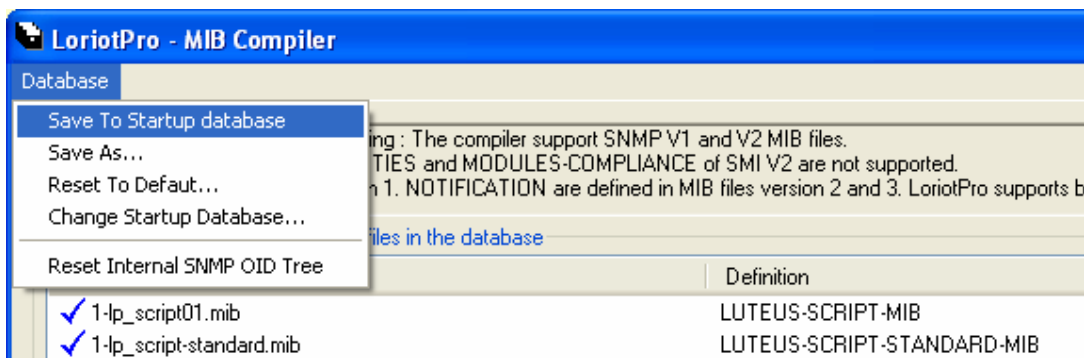
The tree is built from the `/bin/mib/kernel.mib` file.

If we open the Compiler then we see that the only compiled MIB file is the `kernel.mib`



From there you can now restart the compilation of the desired MIB files.

When you have compiled your MIB files, proceed to a **Save To Startup Database** else at the next startup your settings will be lost and you will have to recompile your MIB files.



The **Save To Startup Database** creates the files that the `/bin/config/mib-database/lmib.lda`.

More explanations

The `/bin/lmib.txt` file is created with the LorientPro Compiler. The LorientPro MIB Compiler can add (compile) to the startup database config file any MIB files that are located in the `/bin/mibs` directory.

Warning: Even if the database contains the entire MIB object, all object attributes are not stored in it. Thus it is still necessary to keep in the /bin/mibs subdirectory all the MIB files used to make the compilation.

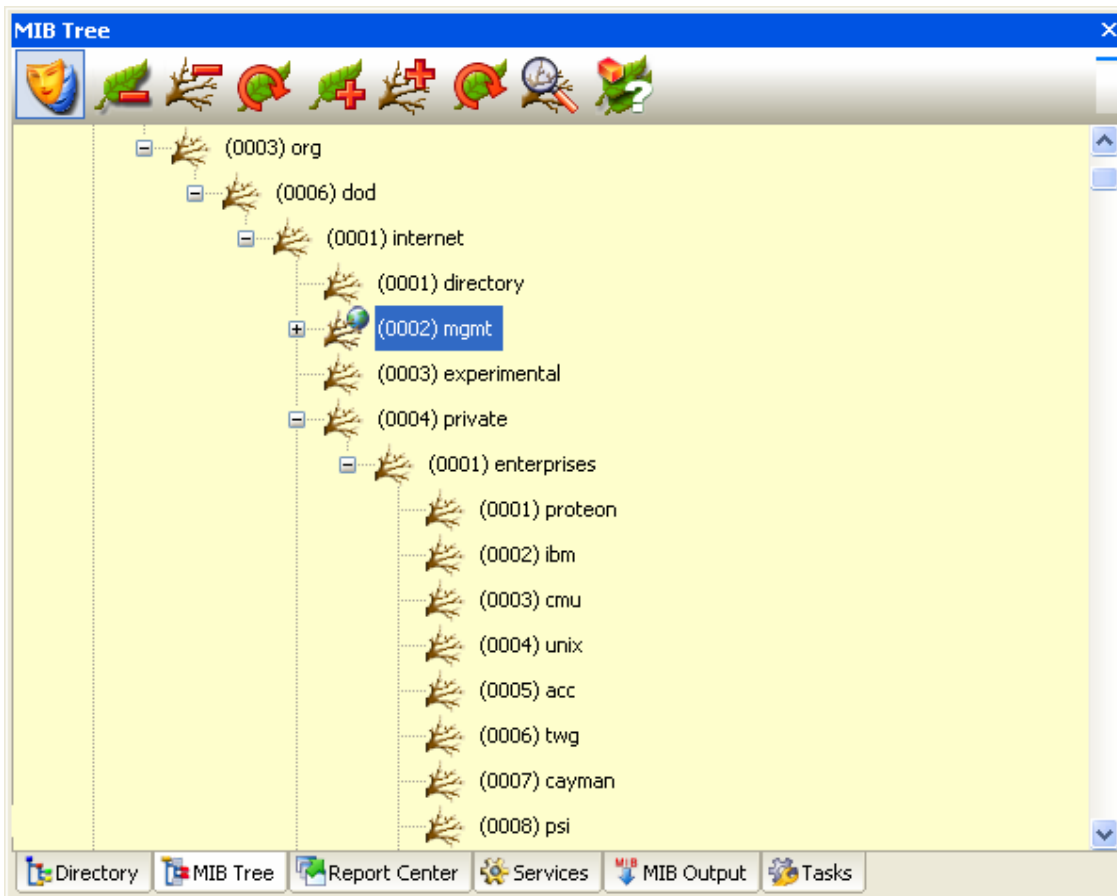
If the /bin/lmib.txt file does not exist, LorientPro creates a new file by reading the /bin/config/mib-database/lmib.lida file.

The /bin/config/mib-database/lmib.lida file is the default startup database config file provided with LorientPro. This one is absolutely necessary for LorientPro. This file is a copy of the last generated lmib.txt if you have performed compilation and use afterwards the option 'save to startup database'. In other case it is a copy of the default lmib.txt file provided at installation.

At the end of the startup process, if both files does not exist, LorientPro reads the /bin/kernel.mib file and create with an on the fly compilation a minimum internal MIB database with the common SNMP objects defined in standard MIBs files issued from the RFC (Request for Comments). The kernel.mib file describes the MIB tree from the root to the MIB2 node and its underneath mandatory objects (system, interface, snmp, ip, tcp...)

How to clean the enterprise MIB branch

When you install LorientPro, by default LorientPro create a MIB tree with the **enterprises MIB branch** filled with entries.



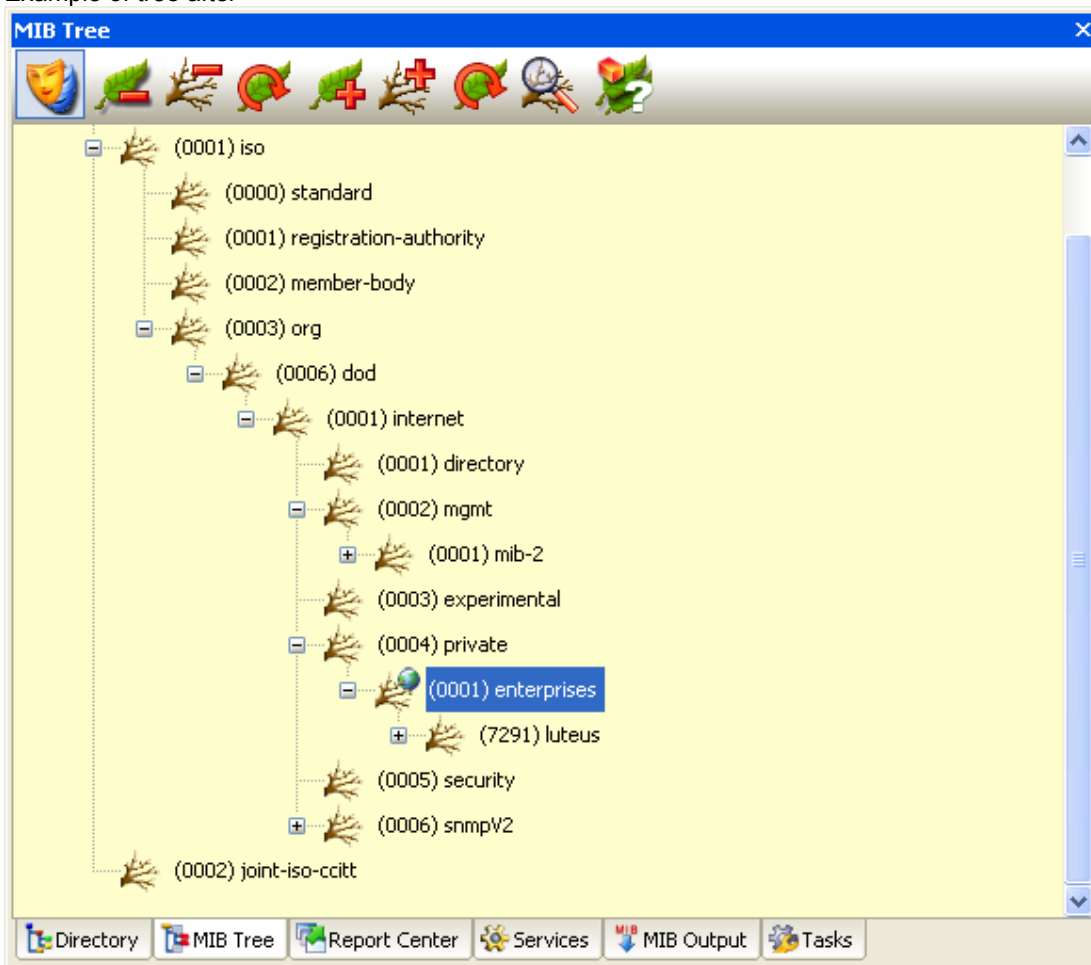
This configuration is realized because LorientPro loads MIB files that are listed in the **bin/config/loriot.ini file** under the [MIB_LOAD] section.

By default the **enterprise-number.mib** is loaded by this way and creates the nodes "enterprise" in the tree. Well known company nodes are automatically created. The enterprise-number.mib contains the assigned company numbers that you can see in the upper tree.

If you remove the **enterprises-number.mib** line from the loriot.ini file at the next startup you should have an empty tree.

```
[MIB_LOAD]
enterprises-number.mib
[end]
```

Example of tree after



You can also modify the `/bin/mibs/enterprise-number.mib` and remove only the desired entries. Suppress or add the company line in the file.

```
LENTERPRISE-MIB DEFINITIONS ::= BEGIN
```

```
-- This file is generated from the iana enterprise number information site
-- With the 400 first registered company.
-- Actually the list of registered enterprises is more than 8000 entry
-- Free to you to update this file to use with your specific product
```

```
-- Enterprises
-- SMI Network Management Private Enterprise Codes:
-- OID 1.3.6.1.4.1.
-- last modification 10 23 2004
```

```
IMPORTS
    enterprises
        FROM RFC1155-SMI;
```

```
proteon OBJECT IDENTIFIER ::= { enterprises 1 } -- Proteon
ibm     OBJECT IDENTIFIER ::= { enterprises 2 } -- IBM
```

cmu	OBJECT IDENTIFIER ::= { enterprises 3 } -- CMU
unix	OBJECT IDENTIFIER ::= { enterprises 4 } -- Unix
acc	OBJECT IDENTIFIER ::= { enterprises 5 } -- ACC
twg	OBJECT IDENTIFIER ::= { enterprises 6 } -- TWG
cayman	OBJECT IDENTIFIER ::= { enterprises 7 } -- CAYMAN
psi	OBJECT IDENTIFIER ::= { enterprises 8 } -- PSI
cisco	OBJECT IDENTIFIER ::= { enterprises 9 } -- cisco
nsc	OBJECT IDENTIFIER ::= { enterprises 10 } -- NSC
hp	OBJECT IDENTIFIER ::= { enterprises 11 } -- HP
epilogue	OBJECT IDENTIFIER ::= { enterprises 12 } -- Epilogue
uTennessee	OBJECT IDENTIFIER ::= { enterprises 13 } -- U of Tennessee
bbn	OBJECT IDENTIFIER ::= { enterprises 14 } -- BBN
xylogics	OBJECT IDENTIFIER ::= { enterprises 15 } -- Xylogics, Inc.
timeplex	OBJECT IDENTIFIER ::= { enterprises 16 } -- Timeplex
canstar	OBJECT IDENTIFIER ::= { enterprises 17 } -- Canstar
wellfleet	OBJECT IDENTIFIER ::= { enterprises 18 } -- Wellfleet