

# **Adabas SOA Gateway**

## **Troubleshooting**

Version 2.6.1

November 2016

This document applies to Adabas SOA Gateway Version 2.6.1.

Specifications contained herein are subject to change and these changes will be reported in subsequent release notes or new editions.

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# Troubleshooting

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*Troubleshooting SOA Gateway Installation issues*

*Troubleshooting SOA Gateway client side issues*

*Troubleshooting SOA Gateway server issues*

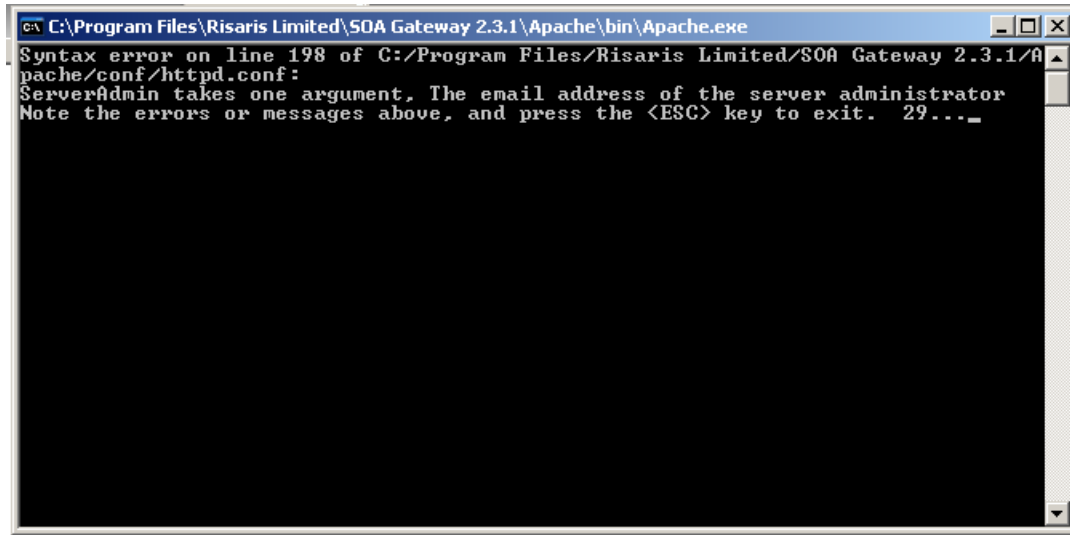
*Troubleshooting the SOA Gateway Control Center*

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# 1 Troubleshooting SOA Gateway Installation issues

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## ■ Syntax error with Server Admin



This error occurs when there is more than one entry in the server's DNS suffix list.

Click **Start**, **Control Panel**, **Network Connections**, **Local Area Connection**, **Properties**

Select **Internet Properties (TCP/IP)** and click **Properties**

Click the **Advanced** button

Select the **DNS** tab, and in the **Append these DNS Suffixes**, ensure there is only one entry.

Click **OK**, **OK** and then **Close**

In the **LAN Status** window select the **Support** tab, and click **Repair**

Re-start the installation.



## 2 Troubleshooting SOA Gateway Client side issues

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- **"adabasDriver::readLfdata() returned -300148, indicating Command 'LF' for dbid=1756, fnr=13: Rsp 148 (No active database was found, start the nucleus)**

The Adabas database is not running, or cannot be accessed.

Resolution:

- Contact the administrator of your Adabas database to get it started.
- Use the control centre to change the DBID that the Web Service is using.
- Change the SVC that SOA Gateway is using to allow it to access the required DBID.
- **"adabasDriver::listGet() returned -300152, indicating Command 'L1' for dbid={dbid}, fnr={fnr}: Rsp 152 (The internal user buffer was not large enough to contain the user buffer areas) "**

The SOA Gateway Adabas driver employs the Adabas "Multifetch" feature to reduce IPC (Inter-Process Communication) with the Adabas database server for maximum performance.

For a *LIST* or *SELECT* request a default of 64 records to be "multifetched" is applied, an Adabas response code 152 is returned when the buffer areas required to return 64 records of the size determined by the SOA Gateway XRD for the WebService in question exceed the Adabas *LU* parameter.

Resolution:

- Increase the Adabas LU parameter
- Reduce the size of the data to be transferred per record, for example by lowering the "maxOccurs" setting for MU and/or PE fields within the XRD
- Use the SOAP header option *SOAGateway\_Internal\_Adabas\_Multifetch\_Limit* to specify a value, lower than the default of 64, that results in a transfer buffer size small enough to not exhaust the LU parameter setting.

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## 3 Troubleshooting SOA Gateway Server issues

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- **Cannot load mod\_xmiddle.so into server: failed to map segment from shared object: Permission denied.**

This error can occur on Red Hat when SELinux is enabled. To disable it do the following:

- As root, run `system-config-securitylevel`
  - Select SELinux Tab.
  - In the "Modify SELinux Policy" box, expand "HTTPD Service"
  - Tick the box "Disable SELinux protection for httpd daemon"
  - Click [ OK ]
  - Click [ YES ]
- **API module structure `xmiddle\_module' in file XXX is garbled - perhaps this is not an Apache module DSO?**

Ensure that you have chosen the correct installation for your system. For example, this error can occur when SLES 9 files are installed on a SLES 10.

Ensure that the version of Apache you are installing on is either v2.0 or v2.2. Other versions are not supported.

- **Failed to bind to <port number>, port already in use**

The port specified on the Listen directive in Apache's configuration file is already being used by another application. Change this to a port number not being used.

- **No error on command line, but Apache is not responding.**

Check Apache's error\_log file for error messages from the SOA Gateway server.

The default location of the Apache error\_log is `[SOAG_INST]/apache2/logs/error_log` replacing `[SOAG_INST]` with the location you installed SOA Gateway in.

■ **A SOAP Fault is generated**

Check the associated message in the <soap:faultString> element for error explanation. There may also be further messages available in the Apache's error\_log.

The default location of the Apache error\_log is [SOAG\_INST]/apache2/logs/error\_log replacing [SOAG\_INST] with the location you installed SOA Gateway in.

■ **Abend S0C1 in module SAFASG**

When the SOA Gateway server is running with *Security Level = User or Password* and is protected by Adabas SAF this abend indicates that SAFASG has not been linked correctly, please revisit the Security Section and relink SAFASG accordingly.

■ **Command 'LF' for dbid=212, fnr=9, Rsp 17 (Invalid file number)**

This error indicates you are accessing a file (number 9) that does not exist on the Adabas database (ID=212). For example, you may be running a installation verification test, and the standard demo files ("Employees" and "Vehicles") delivered with Adabas have not been installed, or have not been installed in the standard locations.

■ **Unicode char 0xF1 is not representable in encoding ASCII.**

See information about i18n here

■ **PRNG still contains insufficient entropy! Failed to generate temporary 512 bit RSA private key. Configuration Failed**

Ensure the 2 following directives are enabled in your Apache configuration file (httpd.conf)

```
SSLRandomSeed startup builtin
SSLRandomSeed connect builtin
```

If running on z/OS or z/VSE ensure the server is *not* active when submitting jobs which copy content to the SOA Gateway file system.

## 4 SOA Gateway Control Center (Eclipse) Troubleshooting

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- **Missing bundle "org.apache.axis" during SOA Gateway Control Centre install**

Ensure the "Web, XML and Java EE Development" plugins have been installed from the Eclipse Helios update site.

- **The Control Center does not react as expected, functions appear to 'do nothing', but do not give any messages indicating the cause of the misbehaviour.**

Usually at least a brief notice about any error is displayed in the SOA Gateway Log View.

If the Log View does not give any information, or the information presented is not sufficient to identify the problem, consult the Eclipse Error Log which is accessible from the Eclipse main menu bar via:

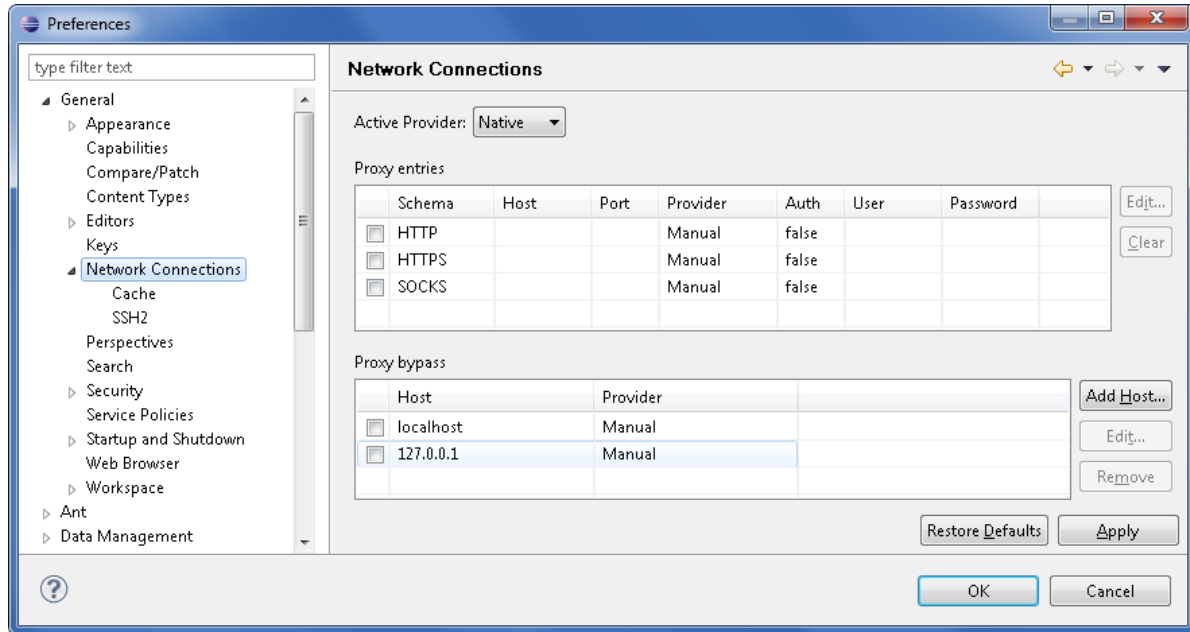
- **Help**
- **About Eclipse SDK** (this brings up a popup windows)
- Click "Installation Details"
- Select the Configuration tab
- Click "View Error Log"
- Scroll to the bottom of the error log to view information about the last error having occurred.

*Possible cause: please check if the JRE (Java Runtime Environment) in use it at least JRE 1.5, earlier levels may cause the behaviour described above !*

- **The Eclipse update manager times out with network errors and does not get access to the update site(s)**

When accessing the outside world from an intranet, it may be required to specify a HTTP proxy to Eclipse, this is done as follows:

- Bring up the Preferences dialog by selecting *Window -> Preferences* from the Eclipse main menu.
- Select the Network Connections section, specify the Proxy settings as appropriate



- Click OK to confirm the settings.

### ■ Font issues

The overall font of the SOA Gateway Control Centre can be modified by selecting

**Window, Preferences, General, Appearance, Colours and Fonts**, and the **SOA Gateway** item from this. The SOA Gateway Control Centre must be restarted after modifications.

- # A fatal error has been detected by the Java Runtime Environment:

```
# SIGSEGV (0xb) at pc=0x9bbfc3e3, pid=13780, tid=3062007584
```

```
#
```

```
# JRE version: 6.0_29-b11
```

```
# Java VM: Java HotSpot(TM) Client VM (20.4-b02 mixed mode linux-x86 )
```

```
# Problematic frame:
```

```
# C [libxul.so+0xb573e3] JSD_GetValueForObject+0x35319
```

```
#
```

Include the following option in the *eclipse.ini* file

-Dorg.eclipse.swt.browser.XULRunnerPath=/dev/null

