

Hard2:Projekte/EnvoyARexx/Docs/EnvoyARexx

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Chapter 1

Hard2:Projekte/EnvoyARexx/Docs/EnvoyARexx

1.1 Hard2:Projekte/EnvoyARexx/Docs/EnvoyARexx.guide

EnvoyARexx - Version 1.0

ARexx-service for Envoy

User's manual

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Copyright	Copyright and legal information
Overview	What is EnvoyARexx?
Archive overview	What is what in the archive?
Installation	Installation of the package
Rexx functions	Descriptions of the functions
CLI commands	The CLI-commands of the package
Simple example	To see how it works
Errorcodes	Errorcodes and -messages
Known problems/bugs	Limitation(s)
Author information	How to reach me
Acknowledgements	Those who are indispensable...
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1.2 EnvoyARexx.guide/COPYRIGHT

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1.3 EnvoyARexx.guide/OVERVIEW

Overview

The purpose of EnvoyARexx is to transmit ARexx-commands (and thus execute whole ARexx-scripts) over an Envoy network.

EnvoyARexx is able to create ARexx-ports on the local machine. Any incoming message will be converted to an Envoy-transaction and sent to the appropriate remote machine. The service running on the remote will convert the transaction to an ARexx-message and forward it to the ARexx-port of the real application. The result of the messages (returned by the application) will be converted back to an Envoy-transaction and replied to the local machine. The library on the local machine will convert the result for use within the ARexx-message and replies the message. See also Archive overview.

Additionally, you can 'connect' to the COMMAND-'port'(1) of a remote machine. Thus, you can easily run commands on a remote machine in the

- * `ConnectHost`: Creates a communication-path from the local `envoyarexx.library` to a remote `envoyarexx.service`. Opens an ARexx-port on the local machine, ready to receive and forward ARexx-messages. (1)
- * `DisconnectHost`: Removes a communication-path which was previously created by `DisconnectHost` or by the appropriate ARexx-function of the library. Causes the `envoyarexx.library` to close the local ARexx-port.
- * `Install_EnvoyARexx`: Automatic installation-script for EnvoyARexx.
- * `EnvoyARexx.(guide|dvi)`: This manual. :-)

----- Footnotes -----

(1) Please note that the `envoyarexx.library` provides compatible functions for ARexx-scripts.

1.5 EnvoyARexx.guide/INSTALL

Installation

Automatic installation
Manual installation

1.6 EnvoyARexx.guide/INSTALL_AUTO

Automatic installation
=====

For automatic installation of EnvoyARexx you can (should) use the script for Commodore's Installer (1)

----- Footnotes -----

(1) Installer and Installer project icon (c) Copyright 1991-93 Commodore-Amiga, Inc. All Rights Reserved. Reproduced and distributed under license from Commodore.

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1.7 EnvoyARexx.guide/INSTALL_MANUAL

Manual installation

=====

If you want to install EnvoyARexx by hand (for what reason ever) you should copy:

- * envoyarexx.library in your LIBS: directory or wherever your scripts will find this file. The library is only needed on those machines which should run ARexx-scripts and/or run the ConnectHost command for example.
- * envoyarexx.service in your Envoy/Services directory. The service is only needed on target-machines which actually run a ARexx-application. Please make sure to enable the service with the Services Configuration program.
- * ConnectHost and DisconnectHost are the CLI-equivalents of the envoyarexx.library's functions and thus only needed if you want to establish connections-paths 'by hand' or via batch-files. The ConnectHost and DisconnectHost commands need the envoyarexx.library.
- * EnvoyARexx.guide should - of course - be installed on every machine in your network, to come handy when you need it and to disturb you when you don't. ;-)

1.8 EnvoyARexx.guide/REXXFUNCTIONS

Rexx function description

The following functions are implemented in the envoyarexx.library for usage within ARexx-scripts. Please note that there are compatible(1) CLI commands of these functions. See also CLI commands.

Please remember that you have to CALL ADDLIB('envoyarexx.library', 0, -30), before you can use these functions within ARexx-scripts.

```
CONNECTHOST()
DISCONNECTHOST()
```

----- Footnotes -----

(1) compatible means that it's possible to remove connections with the CLI command DisconnectHost, which were originally established by using the ARexx-function CONNECTHOST() and vice versa.

1.9 EnvoyARexx.guide/REXX_CONNECTHOST

CONNECTHOST()

=====

NAME

CONNECTHOST() - Establish an EnvoyARexx-connection to a remote ARexx-port

SYNOPSIS

CALL CONNECTHOST (Remote_Machine,Remote_ARexxPort,Local_ARexxPort)

FUNCTION

Creates a connection to a public port on a remote Amiga. Invokes the EnvoyARexx-service on the remote machine. No connection will be made, if the desired port can't be found on the remote machine. After usage, the connection should be removed with the DISCONNECTHOST() function or the DisconnectHost CLI command.

EXAMPLE

```
CALL CONNECTHOST ("RIKER","Ed")
CALL CONNECTHOST ("CORE","COMMAND","COMMAND.CORE")
```

INPUTS

1. Remote_Machine: Hostname of the remote Amiga.
2. Remote_ARexxPort: Case-sensitive name of the public port you wish to connect to on the remote machine. The remote port must be findable via FindPort() and should be an ARexx-port, of course.
3. Local_ARexxPort: Name of the appropriate public port that should be opened on the local Amiga. This argument is optional(1) and defaults to the name of Remote_ARexxPort. This name is case-sensitive, too.

RESULTS

The ARexx-variable RC contains a specific error-code. See also Errorcodes and -messages.

----- Footnotes -----

(1) However, this argument is required for COMMAND remote ports. You can never open a local port named COMMAND!

1.10 EnvoyARexx.guide/REXX_DISCONNECTHOST

DISCONNECTHOST()

=====

NAME

DISCONNECTHOST() - Remove a connection to a remote ARexx-port

SYNOPSIS

```
CALL DISCONNECTHOST (Local_ARexxPort)
```

FUNCTION

Closes the connection to the remote port, removes the local port from Exec's list and frees it. Ports, that were not created by the CONNECTHOST() function or the DisconnectHost CLI command, won't be touched.

EXAMPLE

```
CALL DISCONNECTHOST ("Ed")
CALL DISCONNECTHOST ("COMMAND.CORE")
```

INPUTS

1. Local_ARexxPort: Case-sensitive name of the public port, whose connection to the remote port should be removed.

RESULTS

The ARexx-variable RC contains a specific error-code. See also Errorcodes and -messages.

1.11 EnvoyARexx.guide/CLICOMMANDS

CLI commands

The following CLI commands are provided for manual use or for usage within AmigaDOS-scripts (batch-files). Compatible ARexx-functions are provided for use within ARexx-scripts. See also Rexx functions.

```
ConnectHost
DisconnectHost
```

1.12 EnvoyARexx.guide/CLI_CONNECTHOST

ConnectHost

=====

NAME

ConnectHost - Establish an EnvoyARexx-connection to a remote ARexx-port

TEMPLATE

```
HOST/A, REMOTEPORT/A, LOCALPORT, LIBRARY/K
```

FUNCTION

ConnectHost acts just like the ARexx-function CONNECTHOST(). See

```
also CONNECTHOST().
```

INPUTS

1. HOST: Hostname of the remote Amiga in your network.
2. REMOTEPORT: Remote port to connect to.
3. LOCALPORT: Local name for the remote port.
4. LIBRARY: Path/filename of the envoyarexx.library. This is optional and useful if the library isn't located in LIBS:.

1.13 EnvoyARExx.guide/CLI_DISCONNECTHOST

```
DisConnectHost
=====
```

NAME

DisConnectHost - Remove a connection to a remote ARExx-port

TEMPLATE

LOCALPORT/A

FUNCTION

DisConnectHost acts just like the ARExx-function DISCONNECTHOST().
See also DISCONNECTHOST().

INPUTS

1. LOCALPORT: Name of the local port to remove.

1.14 EnvoyARExx.guide/EXAMPLE

First example

```
*****
```

Example.earexx is a very simple example-script for EnvoyARExx.
Please edit the remote machine's name in the script before you start
(rx Example.earexx) it.

The script first attempts to connect the the COMMAND-port of the
remote, to run the Ed editor. After this, the script will send the
quit command over the network. As a result, Ed will return a warning
(20), which is returned over the network.

The output looks like this:

```
Connecting to RIKER port COMMAND
Disconnecting
Connecting to RIKER port Ed
  65 *- ADDRESS 'LocalEd' 'q';
+++ Command returned 20
Disconnecting
```

1.15 EnvoyARexx.guide/ERRORS

Errorcodes and errormessages

- * 0 - no error: everything ok.
 - * 1 - unknown error: error occurred, cause not known.
 - * 2 - destination port not found: the destination port was not found on the remote Amiga. Check if the application is running on the remote machine.
 - * 3 - no response space: size of the data to be replied exceeds the reply-buffer size.
 - * 4 - reply immediate: this is not really an error and should never occur.
 - * 5 - warning: generic warning.
 - * 10 - generic error
 - * 20 - fatal error
 - * 21 - no child-process: the library was unable to create the child-process.
 - * 22 - no messageport: unable to create messageport.
 - * 23 - no reply-messageport: unable to create reply-messageport.
 - * 24 - no host or service: service or host not found. May also indicate an Envoy-error.
 - * 25 - no file-handles: unable to open file-handles for SystemTagList().
 - * 26 - local port already exists
 - * 27 - port not found or alien: this error occurs if you try to disconnect a non-existing or a foreign port.
-

Version 1.0

First public release (10.12.95)

1.20 EnvoyARexx.guide/V10

EnvoyARexx - Version 1.0

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* First public release.

1.21 EnvoyARexx.guide/INDEX

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