Nirva FTP Service

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nirva

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Overview

The ftp service is a NIRVA external service that allows managing FTP connections.

Several ftp connections can be maintained for each Nirva session. The connections are identified by a user defined name. If no name is given a default connection name is used.

Installation

The ftp service is delivered as a NIRVA package and can be installed like any NIRVA service directly from the NIRVA configuration web site. Please see the NIRVA configuration chapter in the NIRVA user's guide for further information.

Configuration

The ftp service doesn't require any specific configuration

Reference

This chapter gives the complete reference of all the ftp service commands.

Classes

Here are the available FTP service classes:

- FTP   General commands.
- DIRECTORY   Directory commands.
- FILE   File commands.

Error codes

COMMAND Class

Value	Description
101	Invalid command
102	Bad command parameter

FTP Class

Value	Description
101	Ftp server not connected
102	Ftp connection has been closed
103	Cannot connect Ftp server (socket level)
104	Cannot login Ftp server (authentication level)
105	Not enough memory

Value	Description
106	System configuration error

FILE Class

Value	Description
101	Cannot get file from Ftp server
102	Cannot send file to Ftp server
103	Cannot delete file on Ftp server
104	Cannot rename file on Ftp server

DIRECTORY Class

Value	Description
101	Cannot remove directory on Ftp server
102	Cannot create directory on Ftp server
103	Cannot set the current directory on Ftp server
104	Cannot get the current directory on Ftp server
105	Cannot list files of the current directory on Ftp server

Permissions

Name	Description

Commands

For each command, the reference gives the command name, the sources for which the command may be used, the command description, the eventual command permissions, the parameter list and the eventual list of objects created by the command.

The parameters described in this chapter are command specific parameters. For general parameters, please refer to the Nirva command syntax chapter.

The available sources are:

- Client for all Nirva client interfaces including Nirva client library (nvc).

- Web for commands from a web browser.

- Procedure for commands from a Nirva procedure.
- Service for commands from service to service.

FTP class

The FTP class contains the connection and disconnection commands.

NOP

FTP:FTP:NOP

Source	Use Input Container	Use Output Container
Client Web Procedure Service	No	No

Description

This command does nothing but allows testing that the ftp service is on line and answers correctly.

If the service is not on line, this command returns an error.

Parameters

None

CONNECT

FTP:FTP:CONNECT

Source	Use Input Container	Use Output Container
Client Web Procedure Service	No	No

Description

Attempt to connect an Ftp server given server address, user name and password.

Each Nirva session can maintain several Ftp connections. These connections are identified by a name given as parameter. If the name is no given, the service uses a default name. This avoids naming connections when only one connection is to be used in the session.

The default connection name is "NV_DEFAULT_FTP_CONNECTION".

When attempting to connect an Ftp server, this one is previously disconnected if it was connected.

Parameters

NAME	Name of the connection. This is a user defined named that can be used when several connections have to be managed by the same session. It uniquely identifies the connection. If not given, the service uses a default name.
SERVER	Address of the FTP server.
USER	User name for FTP login.
PASSWORD	User password for FTP login.
SYSTEM	Server type. This parameter is not mandatory but it's better to provide it if the ftp server type is known. The possible values are AS/400, MVS, NETWARE, WINDOWS, OS/2, OS/400, UNIX, VMS.
TIMEOUT	Socket time out in seconds. This optional parameter allows defining a time out on the socket layer. This time out is used after the socket connection has been established so this is not a connection time out.
Mode	Passive or normal mode. If this parameter is set to « PASSIVE », the connection occurs in passive mode. The default is normal mode.

DISCONNECT

FTP:FTP:DISCONNECT

Source	Use Input Container	Use Output Container
Client Web Procedure Service	No	No

Description

Close the connection to the Ftp server. The disconnection is automatic when the nirva session closes.

Parameters

NAME   Name of the connection. This is a user defined named that can be used when several connections have to be managed by the same session. It uniquely identifies the connection. If not given, the service uses a default name.

DIRECTORY class

The DIRECTORY class provides commands for managing Ftp remote directories.

LIST

FTP:DIRECTORY:LIST

Source	Use Input Container	Use Output Container
Client Web Procedure Service	No	Yes

Description

List files and subdirectories of the current remote directory. The result is written in a table object in the output container.

Parameters

NAME   Name of the connection. This is a user defined named that can be used when several connections have to be managed by the same session. It uniquely identifies the connection. If not given, the service uses a default name.

LIST   Name of the resulting Nirva table object that the command will create in the output container. The default is "LIST".

Objects created

LIST   This is a Nirva table object containing following columns:

■ "NAME" is item name (name of subdirectory or file).

■ "TYPE" is the item type. Set to "DIR" for a directory item and to "FILE" for a file item.

- "SIZE" is the item size. Set to 0 for a directory item and to the file size for a file item.

GET

FTP:DIRECTORY:GET

Source	Use Input Container	Use Output Container
Client Web Procedure Service	No	No

Description

Retrieve the current remote directory name. The result is written into a Nirva session variable named "FTP_CURRENT_DIRECTORY" by default.

Parameters

NAME   Name of the connection. This is a user defined named that can be used when several connections have to be managed by the same session. It uniquely identifies the connection. If not given, the service uses a default name.

RESULT   Name of the resulting Nirva session variable. The default is FTP_CURRENT_DIRECTORY".

SET

FTP:DIRECTORY:SET

Source	Use Input Container	Use Output Container
Client Web Procedure Service	No	No

Description

Set the current remote directory.

Parameters

NAME   Name of the connection. This is a user defined named that can be used
                           when several connections have to be managed by the same session. It
                           uniquely identifies the connection. If not given, the service uses a default
                           name.

DIR   Remote directory pathname.

CREATE

FTP:DIRECTORY:CREATE

Source	Use Input Container	Use Output Container
Client Web Procedure Service	No	No

Description

Create a new remote directory.

Parameters

NAME   Name of the connection. This is a user defined named that can be used
                           when several connections have to be managed by the same session. It
                           uniquely identifies the connection. If not given, the service uses a default
                           name.

DIR   Remote directory pathname to create.

REMOVE

FTP:DIRECTORY:REMOVE

Source	Use Input Container	Use Output Container
Client Web Procedure Service	No	No

Description

Remove a remote directory.

Parameters

NAME	Name of the connection. This is a user defined named that can be used when several connections have to be managed by the same session. It uniquely identifies the connection. If not given, the service uses a default name.
DIR	Remote directory pathname to remove.

FILE class

The FILE class provides commands for managing Ftp remote files.

GET

FTP:FILE:GET

Source	Use Input Container	Use Output Container
Client Web Procedure Service	No	Yes

Description

Retrieve a file from remote current directory to local.

Parameters

NAME	Name of the connection. This is a user defined named that can be used when several connections have to be managed by the same session. It uniquely identifies the connection. If not given, the service uses a default name.
FILENAME	Remote file name.
FILETYPE	Transfer type. Can be BINARY or ASCII. The default is BINARY.
FILE	Name of the resulting Nirva file object that the command will create in the output container. The default is "FILE". If the object doesn't exist or if it's not of file type, Nirva creates it.

Objects created

FILE   This is a Nirva file object containing the retrieved file.

SEND

FTP:FILE:SEND

Source	Use Input Container	Use Output Container
Client Web Procedure Service	Yes	No

Description

Send a local file to remote current directory.

Parameters

NAME   Name of the connection. This is a user defined named that can be used when several connections have to be managed by the same session. It uniquely identifies the connection. If not given, the service uses a default name.

FILENAME   Remote file name.

FILETYPE   Transfer type. Can be BINARY or ASCII. The default is BINARY.

FILE   Name of the local Nirva file object containing the file to send.

DELETE

FTP:FILE:DELETE

Source	Use Input Container	Use Output Container
Client Web Procedure Service	No	No

Description

Delete a file from the remote current directory.

Parameters

NAME	Name of the connection. This is a user defined named that can be used when several connections have to be managed by the same session. It uniquely identifies the connection. If not given, the service uses a default name.
FILENAME	Remote file name to delete.

RENAME

FTP:FILE:RENAME

Source	Use Input Container	Use Output Container
Client Web Procedure Service	No	No

Description

Rename a remote file.

Parameters

NAME	Name of the connection. This is a user defined named that can be used when several connections have to be managed by the same session. It uniquely identifies the connection. If not given, the service uses a default name.
FILENAME	Remote file name to rename.
NEW_FILENAME	New remote file name.