VISHNU D1.0 - Command line
interface specifications

**VISHNU D1.0 - Command line interface specifications** 



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# **Chapitre 1**

# Document presentation

# 1.1 Document objectives

This document presents the detailed specifications of the Vishnu command line user interface.

These specifications include the definition of all commands. ###FIXME###

# 1.2 Document structure

The document is divided into 4 parts corresponding to the 4 modules that compose the Vishnu system:

- UMS: Users Management System
- TMS: Tasks Management System
- FMS: Files Management System
- IMS : Information Management System

Each module corresponds to a chapter in the document, and each chapter contains the following sections:

- A first section describing the definition of all commands provided by the package
- A second section describing the definition of all data types used ###FIXME###

# 1.3 References

TODO - ajouter ref. vers les specs générales

# 1.4 Glossary

# 1.5 Generic command definition format

This section presents the generic format used in the following chapters to describe the commands. It also details the environment variables required and the user options.

A commands is defined as follows:

#### Access

Here is detailed the access of the command line for any VISHNU user or only for admin.

# Description

Here is detailed the purpose of the command line.

# Example of use

Here is detailed an example of the use of the command line which start by optional arguments preceded by a short letter and the required arguments at the end.

myCommand -l acLogin -s sshKeyPath userId

#### **Parameters**

The following table contains all the input arguments of the command with their type and description, their short letter for options and a required flag.

Parameter	Type	Option	Description	Requ <mark>ired</mark>
userId	string		This is an example of a required argument	YES
acLogin	string	1	This is an example of an optional argument	NO
sshKeyPath	string	S	This is an example of an optional argument	NO

The following table contains the list of environment variables information, a required flag and a user option flag. The user option flag means that this parameter is a user option that can be define as an environment variable.

Name	Parameter	Туре	Description	Required	User option
VISHNU_SESSION_KEY	sessionKey	string	This is an example of an environment variable	YES	NO

# **Chapitre 2**

# Commands specification for User Management System (UMS)

# 2.1 Command definitions

# 2.1.1 connect

#### Access

This function can be used by any Vishnu user.

#### **Description**

The connect() function opens a session

# Example of use

connect -p closePolicy -d sessionInactivityDelay -s substituteUserId userId

#### **Parameters**

Parameter	Type	Option	<b>Description</b>	Required
userId	string		userId represents the VISHNU user identifier	YES
password string password represents the password an interactive parameter			YES	
closePolicy	SessionCloseType	p	is an option for closing session automatically	NO
sessionInactivityDelay	int	d	The sessionInactivityDelay is the maximum delay between two API commands when the CLOSE_ON_TIMEOUT option is set	NO
substituteUserId	string	s	is an option which allows an admin to open a session as he/she was a specific user identified by his/her userId	NO

Name	Parameter	Туре	Description	Required	User option
VISHNU_CLOSE_POLICY	closePolicy	SessionCloseType	is an option for closing session automatically	NO	YES

#### 2.1.2 reconnect

#### Access

This function can be used by any Vishnu user.

#### **Description**

The reconnect() function returns the sessionKey of a session in which the user was disconnected previously without closing it

# Example of use

reconnect userId sessionId

#### **Parameters**

Parameter	Type	<b>Option</b>	Description	Req <mark>uire</mark> d
userId	string		userId represents the VISHNU user identifier	YES
password	string		password represents the password of the user, it is an interactive parameter	YES
sessionId	string		sessionId is the identifier of the session defined in the database	YES

#### **Environment variables**

Nama	Parameter	Tyme	Description	Required	User
Name	Farameter	Type	Description	Kequireu	option

# 2.1.3 createUser

#### Access

This function can be used by ADMIN users only

# **Description**

The createUser() function adds a new user

#### Example of use

createUser -w password -f firstname -l lastname -p privilege -m email -s passwordState userId

# **Parameters**

Parameter	Type	Option	Description	Required
userId	string		represents the VISHNU user identifier	YES
password	string	W	is the password of the user. At the beginning, an admin can give a temporary password or it is automatically generated by the System.	NO
firstname	string	f	is the firstname of the user	NO
lastname	string	1	is the lastname of the user	NO
privilege	int	p	is the privilege of the user (admin or simple user)	NO
email	string	m	is the email of the user	NO
magayyandCtata	int		is the state of the password which allows the System to inform the user to change his/her	NO
passwordState	int	S	password	NO

Name	Parameter	Туре	Description	Required	User option
VISHNU_SESSION_KEY	sessionKey	string	The sessionKey is the identifier of the session generated by VISHNU	YES	NO

# 2.1.4 updateUser

#### Access

This function can be used by ADMIN users only

# Description

The updateUser() function updates the user information except the userId and password

# Example of use

updateUser -f firstname -l lastname -p privilege -m email userId

#### **Parameters**

Parameter	Type	Option	Description	Required
userId	string		represents the VISHNU user identifier	YES
firstname	string	f	updates the firstname of the user	NO
lastname	string	1	updates the lastname of the user	NO
privilege	string	p	updates the privilege of the user	NO
email	string	m	updates the email adress of the user	NO

#### **Environment variables**

Name	Parameter	Туре	Description	Required	User option
VISHNU_SESSION_KEY	sessionKey	string	The sessionKey is the identifier of the session generated by VISHNU	YES	NO

# 2.1.5 deleteUser

# Access

This function can be used by ADMIN users only

# Description

The deleteUser() function removes a user

# Example of use

deleteUser userId

#### **Parameters**

Parameter	Type	Option	Description	Required
usarId	string		userId represents the VISHNU user identifier of	YES
userId string			the user who will be deleted from VISHNU	163

Name	Parameter	Туре	Description	Required	User option
VISHNU_SESSION_KEY	sessionKey	string	The sessionKey is the identifier of the session generated by VISHNU	YES	NO

# 2.1.6 close

#### Access

This function can be used by any Vishnu user.

# Description

The close() function closes the session identified by the session key

# Example of use

close

#### **Parameters**

Parameter	Type	Option	Descri	ption	Required

#### **Environment variables**

Name	Parameter	Туре	Description	Required	User option
VISHNU_SESSION_KEY	sessionKey	string	The sessionKey is the identifier of the session generated by VISHNU	YES	NO

# 2.1.7 changePassword

#### Access

This function can be used by any Vishnu user.

# Description

The changePassword() function changes the password

# Example of use

changePassword userId

#### **Parameters**

Parameter	Type	Option	Description	Required
userId	string		userId represents the VISHNU user identifier	YES
password	string		password represents the password of the user, it is an interactive parameter	YES
passwordNew	string		passwordNew represents the new password of the user, it is an interactive parameter	YES

Name Paramete	1 11100	Description	Required	User option
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# 2.1.8 resetPassword

#### Access

This function can be used by ADMIN users only

#### **Description**

The resetPassword() function resets the password of a user

# Example of use

resetPassword userId

#### **Parameters**

Parameter	Type	<b>Option</b>	Description	Req <mark>uired</mark>
userId	string		userId represents the VISHNU user identifier of the user whose password will be reset	YES
passwordReset	string		passwordReset represents the new value of the password to be reset, it is an interactive parameter	YES

#### **Environment variables**

Name	Parameter	Туре	Description	Required	User option
			The sessionKey is the		
VISHNU_SESSION_KEY	sessionKey	string	identifier of the session	YES	NO
			generated by VISHNU		

# 2.1.9 createLocalAccount

#### Access

This function can be used by any Vishnu user.

# **Description**

The createLocalAccount() function adds a new local user configuration

#### Example of use

createLocalAccount -l acLogin -s sshKeyPath -h HomeDirectory userId machineId

#### **Parameters**

Parameter	Type	Option	Description	Required
userId	string		The userId represents the login of the user of the local user configuration	YES
machineId	string		The MachineId represents the identifier of the machine associated to the local user configuration	YES
acLogin	string	1	accLogin represents the login of the user on the associated machine	NO
sshKeyPath	string	s	sshKeyPath is the path of the ssh key of the user on the associated machine	NO
HomeDirectory	string	h	HomeDirectory is the path of the home directory of the user on the associated machine	NO

Name	Parameter	Туре	Description	Required	User option
VISHNU_SESSION_KEY	sessionKey	string	The sessionKey is the identifier of the session	YES	NO
	-		generated by VISHNU		

# 2.1.10 updateLocalAccount

#### Access

This function can be used by any Vishnu user.

# Description

The updateLocalAccount() function updates a local user configuration

# Example of use

updateLocalAccount -l acLogin -s sshKeyPath -h HomeDirectory userId machineId

#### Parameters

Parameter	Type	Option	Description	Required	
userId	string		The userId represents the login of the user of the	YES	
usciiu	sumg		local user configuration	1 LS	
machineId	string		The MachineId represents the identifier of the	YES	
macmiciu	machineta string		machine associated to the local user configuration		
acLogin	string	Î .	accLogin represents the login of the user on the	NO	
acLogiii	String		associated machine	110	
sshKeyPath	string	s	sshKeyPath is the path of the ssh key of the user	NO	
ssinceyi atti	3	on the associated machine	110		
HomeDirectory	string	h	HomeDirectory is the path of the home directory	NO	
HomeDirectory	sumg	11	of the user on the associated machine	110	

#### **Environment variables**

Name	Parameter	Туре	Description	Required	User option
VISHNU_SESSION_KEY	sessionKey	string	The sessionKey is the identifier of the session generated by VISHNU	YES	NO

#### 2.1.11 deleteLocalAccount

#### Access

This function can be used by any Vishnu user.

# **Description**

The deleteLocalAccount() function removes a local user configuration (for a given user on a given machine)

# Example of use

deleteLocalAccount userId machineId

Parameter	Type	Option	Description	Required
			userId represents the VISHNU user identifier of	
userId	string		the user whose local configuration will be deleted	YES
			for the given machine	
			machineId represents the identifier of the	
machineId	string		machine whose local configuration will be	YES
			deleted for the given user	

Name	Parameter	Type	Description	Required	User option
VISHNU_SESSION_KEY	sessionKey	string	The sessionKey is the identifier of the session	YES	NO
			generated by VISHNU		

# 2.1.12 saveConfiguration

#### Access

This function can be used by ADMIN users only

# **Description**

The saveConfiguration() function saves the configuration of VISHNU

# Example of use

saveConfiguration

# **Parameters**

Parameter	Type	Option Description	Required

#### **Environment variables**

Name	Parameter	Type	Description	Required	User option
VISHNU_SESSION_KEY	sessionKey	string	The sessionKey is the identifier of the session generated by VISHNU	YES	NO

# 2.1.13 restoreConfiguration

# Access

This function can be used by ADMIN users only

# Description

The restoreConfiguration() function restores the configuration of VISHNU

# Example of use

restoreConfiguration -d descConf

Parameter	Type	Option	Description	Required
descConf	string	d	represents the description of the configuration	NO

Name	Parameter	Туре	Description	Required	User option
VISHNU_SESSION_KEY	sessionKey	string	The sessionKey is the identifier of the session generated by VISHNU	YES	NO

# 2.1.14 createMachine

#### Access

This function can be used by ADMIN users only

# **Description**

The createMachine() function adds a new machine

# Example of use

createMachine -n name -s site -d totalDiskSpace -m totalMemory -t machineDescription machineId

#### **Parameters**

Parameter	Type		Option	Description	Required
machineId	string			represents the identifier of the machine	YES
name	string		n	represents the name of the machine	NO
site	string		S	represents the location of the machine	NO
totalDiskSpace	string	1	d	represents the total disk space of the machine	NO
totalMemory	string		m	represents the total memory of the machine	NO
machineDescription	string		t	represents the description of the machine	NO

#### **Environment variables**

Name	Parameter	Туре	Description	Required	User option
VISHNU_SESSION_KEY	sessionKey	string	The sessionKey is the identifier of the session generated by VISHNU	YES	NO

# 2.1.15 deleteMachine

#### Access

This function can be used by ADMIN users only

#### **Description**

The deleteMachine() function removes a machine

# Example of use

deleteMachine machineId

Parameter	Type	Option	Description	Required
machineId	string		machineId represents the identifier of the machine	YES

Name	Parameter	Туре	Description	Required	User option
VISHNU_SESSION_KEY	sessionKey	string	The sessionKey is the identifier of the session generated by VISHNU	YES	NO

# 2.1.16 listLocalAccount

#### Access

This function can be used by any Vishnu user.

# **Description**

The listLocalAccount() function lists the local user configurations

# Example of use

listLocalAccount -a -u userId -i machineId

#### **Parameters**

Parameter	Type	Option	Description	Required
AdminListOption	boolean	a	is an admin option for listing all local configurations of all users	NO
userId	string	u	is an admin option for listing the local configurations of a specific user	NO
machineId	string	i	is an option for listing local user configurations on a specific machine	NO

#### **Environment variables**

Name	Parameter	Туре	Description	Required	User option
VISHNU_SESSION_KEY	sessionKey	string	The sessionKey is the identifier of the session generated by VISHNU	YES	NO

# 2.1.17 listMachine

#### Access

This function can be used by any Vishnu user.

#### **Description**

The listMachine() function lists the machines in which local user configurations are defined for the given user

## Example of use

listMachine -u userId -a -m machineId

Parameter	Type	Option	Description	Required
userId	string	u	is an admin option for listing machines in which a specific user has a local configuration	NO
ListAllOption	boolean	a	is an admin option for listing all machine defined in the database	NO

Parameter	Type	Option	Description	Required
machineId	string	m	is an option for listing information about a specific machine	NO

Name	Parameter	Туре	<b>Description</b>	Required	User option
VISHNU_SESSION_KEY se			The sessionKey is the	YES	
	sessionKey	string	identifier of the session		NO
			generated by VISHNU		

# 2.1.18 listHistoryCmd

#### Access

This function can be used by any Vishnu user.

# Description

The listHistoryCmd() function lists the commands

# Example of use

listHistoryCmd -a -u userId -i sessionId -s startDateOption -e endDateOption

#### **Parameters**

Parameter	Type	Option	Description	Required
AdminListOption	boolean	a	is an admin option for listing all commands of all users	NO
userId	string	u	u is an admin option for listing commands launched by a specific user identified by his/her userId	
sessionId	string	i	lists all commands launched within a specific session	NO
startDateOption	long	S	allows the user to organize the commands listed by providing the start date (the UNIX timestamp of the start date is used)	NO
endDateOption	long	e	allows the user to organize the commands listed by providing the end date (the timestamp of the end date is used). By default, the end date is the current day	NO

## **Environment variables**

Name	Parameter	Туре	Description	Required	User option
VISHNU_SESSION_KEY	sessionKey	string	The sessionKey is the identifier of the session generated by VISHNU	YES	NO

# 2.1.19 listOptions

# Access

This function can be used by any Vishnu user.

# Description

The listOptions() function lists the options

# Example of use

listOptions -u userId -n optionName

#### **Parameters**

Parameter	Type	Option	<b>Description</b>	Required
userId	string	u	is an admin option for listing information about a specific user identified by his/her userId	NO
optionName	string	n	allows the user to list a specific option identified by its name	NO

# **Environment variables**

Name	Parameter	Туре	Description	Required	User option
VISHNU_SESSION_KEY	sessionKey	string	The sessionKey is the identifier of the session generated by VISHNU	YES	NO

# 2.1.20 listUsers

# Access

This function can be used by ADMIN users only

# Description

The listUsers() function lists users

## Example of use

listUsers -i userIdOption

#### **Parameters**

Parameter	Type	Option	<b>Description</b>	Required
userIdOption	string	i	allows an admin to list one user identified by his/her userId	NO

# **Environment variables**

Name	Parameter	Туре	Description	Required	User option
VISHNU_SESSION_KEY	sessionKey	string	The sessionKey is the identifier of the session generated by VISHNU	YES	NO

# 2.1.21 listSessions

#### Access

This function can be used by any Vishnu user.

# **Description**

The listSessions() function lists sessions

# Example of use

listSessions -t sessionListOption -p sessionClosePolicy -d sessionInactivityDelay -m machineId -a -u userId -i sessionId -s start-DateOption -e endDateOption

# **Parameters**

Parameter	Type	Option	Description	Required
sessionListOption	SessionListOptionTyp	e t	is an option which precise the type of session listed (ACTIVE_SESSION, INACTIVE_SESSION or ALL_SESSION)	NO
sessionClosePolicy	SessionCloseType	p	is an option for closing session automatically (CLOSE_ON_TIMEOUT or CLOSE_ON_DISCONNECT)	NO
sessionInactivityDelay	int	d	The sessionInactivityDelay is the maximum delay between two API commands when the CLOSE_ON_TIMEOUT option is set	NO
machineId	string	m	allows a user to list sessions opened on a specific machine	NO
AdminListOption	boolean	a	is an admin option for listing all sessions of all users	NO
userId	string	u	is an admin option for listing information about a specific user identified by his/her userId	NO
sessionId	string	i	allows the user to list all commands launched within a specific session	NO
startDateOption	long	S	allows the user to organize the commands listed by providing the start date (the UNIX timestamp of the start date is used)	NO
endDateOption	long	e	allows the user to organize the commands listed by providing the end date (the timestamp of the end date is used). By default, the end date is the current day	NO

# **Environment variables**

Name	Parameter	Туре	Description	Required	User option
VISHNU_SESSION_KEY	sessionKey	string	The sessionKey is the identifier of the session generated by VISHNU	YES	NO

# 2.1.22 configureOption

#### Access

This function can be used by any Vishnu user.

# **Description**

The configureOption() function configures an option

# Example of use

configureOption optionName value

Parameter	Type	Option	Description	Required
optionName	string		represents the name of an option	YES
value	string		represents the value of an option	YES

Name	Parameter	Туре	Description	Required	User option
VISHNU_SESSION_KEY	sessionKey	string	The sessionKey is the identifier of the session generated by VISHNU	YES	NO

# 2.1.23 configureDefaultOption

# Access

This function can be used by ADMIN users only

# **Description**

The configureDefaultOption() function configures a default option value

# Example of use

configureDefaultOption optionName value

#### **Parameters**

Parameter	Type	Option	Description	Required
optionName	string		represents the name of an option	YES
value	string		represents the value of an option	YES

#### **Environment variables**

Name	Parameter	Туре	Description	Required	User option
VISHNU_SESSION_KEY	sessionKey	string	The sessionKey is the identifier of the session generated by VISHNU	YES	NO

# 2.2 Parameters definitions

# **SessionCloseType Enumeration Type**

Name	Value
CLOSE_ON_DISCONNECT	0
CLOSE_ON_TIMEOUT	1

# SessionListOptionType Enumeration Type

Name	Value
ACTIVE_SESSION	0
INACTIVE_SESSION	1
ALL_SESSION	2

# **Chapitre 3**

# Commands specification for Tasks Management System (TMS)

# 3.1 Command definitions

# 3.1.1 submitJob

#### Access

This function can be used by any Vishnu user.

#### **Description**

The submitJob() function submits job on a machine through the use of a script (job\_cmd\_path). The script is a shell script which will be executed by a command shell such as shor csh. The object opt parameter of this function allows the user to specifie job characteristics options. Also the user can options in the script file.

#### Example of use

submitJob -n Name -null priority -null queue -null wallTime -null memory -null nbCpu -null nbNodesAndCpuPerNode -null OutPutPath -null ErrorPath sessionKey machineId scriptFilePath

Parameter	Type	<b>Option</b>	Description	Required
sessionKey	string		The sessionKey is the identifier of the session generated by VISHNU	YES
machineId	string	Is the id of the machine where the job must be submitted		YES
scriptFilePath	string		The path to the file containing the characteristics (job command, and batch scheduler directive required or optional) of the job to submit.	YES
Name	string	n	Assigns a job name. The default is the name of job path.	NO
priority	JobPriority		Assigns priority of the job.	NO
queue	string		Assigns the queue or class of the job.	NO
wallTime	int		The maximum wall-clock time during which the job can run.	NO
memory	int		The size of memory that the job will use.	NO
nbCpu	int		The number of cpu that the job will use.	NO
nbNodesAndCpuPerNode	int		The number of nodes and processors per node.	NO
OutPutPath	string		Assigns the path and file for job output.	NO
ErrorPath	string		Assigns the path and file for job error.	NO

Name	Parameter	Туре	Description	Required	User option	
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# 3.1.2 listJobs

#### Access

This function can be used by any Vishnu user.

# **Description**

The listJobs() function gets a list of all submitted jobs

# Example of use

listJobs -null JobId -null nbCpu -null fromSubmitDate -null toSubmitDate -null owner -null status -null priority -null OutPutPath -null ErrorPath -null queue sessionKey machineId

#### **Parameters**

Parameter	Type	Option	<b>Descript</b> ion	Required
sessionKey	string		The sessionKey is the identifier of the session generated by VISHNU	YES
machineId	string		Machine hash key	YES
JobId	string		To list job which has this id.	NO
nbCpu	int		To list jobs which have this number of cpu.	NO
fromSubmitDate	long		List jobs submitted after this date (unix timestamp).	NO
toSubmitDate	long		List jobs submitted before this date (unix timestamp)	NO
owner	string		To list all jobs submitted by this owner.	NO
status	JobStatus		To list jobs which have this status.	NO
priority	JobPriority		To list jobs which have this priority	NO
OutPutPath	string		Gets the path and file for each job output.	NO
ErrorPath	string		Gets the path and file for each job error.	NO
queue	string		To list jobs which have this queue name.	NO

#### **Environment variables**

Nama	Parameter	Tyme	Dogovintio	Do	equired	User
Name	Farameter	Type	Descriptio	on Ke	equireu	option

# 3.1.3 getJobInfo

#### Access

This function can be used by any Vishnu user.

# **Description**

The getJobInfo() function gets information on a job from it Id

# Example of use

getJobInfo sessionKey machineId jobId

Parameter	Type	Option	Description	Required
sessionKey	string		The sessionKey is the identifier of the session generated by VISHNU	YES
machineId	string		Machine hash key	YES
jobId	string		The id of the job	YES

Name	Parameter	Type	Description	Required	User option
------	-----------	------	-------------	----------	-------------

# 3.1.4 cancelJob

#### Access

This function can be used by any Vishnu user.

# **Description**

The cancelJob() function cancels a job from it Id

# Example of use

cancelJob sessionKey machineId jobId

#### **Parameters**

Parameter	Type	Option	Description	Required
sessionKey	string		The sessionKey is the identifier of the session generated by VISHNU	YES
machineId	string		Machine hash key	YES
jobId	string		The Id of the job	YES

# **Environment variables**

Name	Parameter	Туре	Description	Required	User option	
------	-----------	------	-------------	----------	----------------	--

# 3.1.5 getJobOutPut

#### Access

This function can be used by any Vishnu user.

#### Description

The getJobOutPut() function gets outputPath and errorPath of a job from it Id

# Example of use

getJobOutPut sessionKey machineId jobId

Parameter	Type	Option	Description	Required
sessionKey	string		The sessionKey is the identifier of the session	YES
machineId	string		generated by VISHNU  Machine hash key	YES
jobId	string		The Id of the job	YES

Name	Parameter	Туре	Description	Required	User option	
------	-----------	------	-------------	----------	-------------	--

# 3.1.6 getAllJobsOutPut

#### Access

This function can be used by any Vishnu user.

#### **Description**

The getAllJobsOutPut() function gets outputPath and errorPath of completed jobs dynamically

# Example of use

getAllJobsOutPut sessionKey machineId

#### **Parameters**

Parameter	Type	Option	Description	Required
sessionKey	string		The sessionKey is the identifier of the session generated by VISHNU	YES
machineId	string	7	Machine hash key	YES

#### **Environment variables**

Nome	Darameter	Tymo	Description	Dogginad	User
Name	Farameter	Type	Description	Required	option

## 3.1.7 listQueues

#### Access

This function can be used by any Vishnu user.

# **Description**

The listQueues() function gets queues information

#### Example of use

listQueues sessionKey machineId

#### **Parameters**

Parameter	Type	Option	Description	Required
sessionKey	string		The sessionKey is the identifier of the session generated by VISHNU	YES
machineId	string		Machine hash key	YES

# **Environment variables**

Name	Parameter	Туре	Description	Required	User option
					option

# 3.1.8 setMachineEnv

#### Access

This function can be used by ADMIN users only

# Description

The setMachineEnv() function sets environment variables on a remote machine

#### Example of use

setMachineEnv sessionKey machineId listEnv

#### **Parameters**

Parameter	Type	Option	Description	Required
sessionKey	string		The sessionKey is the identifier of the session generated by VISHNU	YES
machineId	string		Represents the machine id	YES
listEnv	string		Represents the list environement variables	YES

#### **Environment variables**

Nome	Danamatan	Type	Description	Dogwinod	User
Name	Parameter	Туре	Description	Required	option

#### 3.1.9 setMachineRefreshPeriod

#### Access

This function can be used by ADMIN users only

# Description

The setMachineRefreshPeriod() function sets the refresh period of output and error file content

# Example of use

setMachineRefreshPeriod sessionKey machineId value

#### **Parameters**

Parameter	Type	Option	<b>Description</b>	Required
sessionKey	string		The sessionKey is the identifier of the session generated by VISHNU	YES
machineId	string		The id of the machine	YES
value	int		Is the refresh interval value (in seconds)	YES

# **Environment variables**

Nama	Doromotor	Type	Description	Doguired	User
Name	Parameter	Type	Description	Required	option

# 3.1.10 getJobProgress

#### Access

This function can be used by any Vishnu user.

# Description

The getJobProgress() function get the progression status of jobs.

## Example of use

getJobProgress -null jobId -null jobOwner sessionKey machineId

#### **Parameters**

Parameter	Type	Option Description	Required
sessionKey	string	The sessionKey is the ident generated by VISHNU	tifier of the session YES
machineId	string	Is the id of the machine to grogression.	get the jobs YES
jobId	string	Represents the id of the job see its progression.	that the user wants to NO
jobOwner	string	Represents the owner of the	e job. NO

# **Environment variables**

Name Parameter	Type	Description	Required User option
----------------	------	-------------	----------------------

# 3.2 Parameters definitions

# **JobPriority Enumeration Type**

Name		Value
VERY_LC	)W	100
LOW		200
NORMAL		300
HIGH		400
VERY_HI	GH	500

# **JobStatus Enumeration Type**

Name	Value
RUNNING	0
WAITING	1
COMPLETED	2
CANCELED	3
HELD	4
QUEUED	5
FAILED	6
NOT_SUBMITTED	7

# **Chapitre 4**

# Commands specification for Information Management System (IMS)

# 4.1 Command definitions

# 4.1.1 getUpdateFrequency

#### Access

This function can be used by any Vishnu user.

#### **Description**

The getUpdateFrequency() function gets the update frequency of the IMS database

# Example of use

getUpdateFrequency

#### **Parameters**

Parameter Type	Option Description	Required
----------------	--------------------	----------

#### **Environment variables**

Name	Parameter	Туре	<b>Description</b>	Req <mark>uire</mark> d	User option
VISHNU_SESSION_KEY	sessionKey	string	The key of the session of the user that submits the command	YES	NO

# **4.1.2** export

#### Access

This function can be used by any Vishnu user.

# Description

The export() function exports all the commands made by a user during a session

# Example of use

export oldSessionKey exportType

#### **Parameters**

Parameter	Type	Option	<b>Description</b>	Required
oldSessionKey	string		The key of the session to export (session has ended)	YES
exportType	ExportType		The format to export	YES

#### **Environment variables**

Name	Parameter	Туре	Description	Required	User option
VISHNU_SESSION_KEY	sessionKey	string	The key of the session of the user that submits the command (current session key)	YES	NO

# 4.1.3 replay

#### Access

This function can be used by any Vishnu user.

# **Description**

The replay() function replays a script of VISHNU commands

# Example of use

replay filename type

# **Parameters**

Parameter	Type	Option	Description	Required
filename	string		A file containing the commands to replay	YES
type	ExportType		The type of the script to execute (python, shell)	YES

# **Environment variables**

Name	Parameter	Type	Description	Re <mark>qui</mark> red	User option
VISHNU_SESSION_KEY	sessionKey	string	The key of the session of the user that submits the command	YES	NO

# 4.1.4 getMetricVal

# Access

This function can be used by any Vishnu user.

# Description

The getMetricVal() function gets data from a metric

# Example of use

getMetricVal machineId startTime endTime metricType

Parameter	Type	Option	Description	Required
machineId	string		The id of the machine	YES
startTime	long		The start time to look for the metric	YES
endTime	long		The end time to search	YES
metricType	MetricType		The metric types	YES

Name	Parameter	Type	Description	Required	User option
VISHNU_SESSION_KEY	sessionKey	string	The key of the session of the user that submits the	YES	NO
			command		

# 4.1.5 getCurrentData

# Access

This function can be used by any Vishnu user.

# **Description**

The getCurrentData() function gets data corresponding to the datatype on a machine

# Example of use

getCurrentData machineId dataType

#### **Parameters**

Parameter	Type	Option	Description	Required
machineId	string		The id of the machine the user wants the total diskSpace	YES
dataType	MetricType		The type of data the user wants to get	YES

# **Environment variables**

Name	Parameter	Type	Description	R <mark>equi</mark> red	User option
VISHNU_SESSION_KEY	sessionKey	string	The key of the session of the user that submits the command	YES	NO

# 4.1.6 getProcesses

# Access

This function can be used by ADMIN users only

# Description

The getProcesses() function gets the list of the processes running over a front machine

# Example of use

getProcesses machineId

Parameter	Type	Option	Description	Required
machineId	string		The id of the machine the user wants the running	YES
			processes	1 LS

Name	Parameter	Туре	Description	Required	User option
			The key of the session of the		
VISHNU_SESSION_KEY	sessionKey	string	user that submits the	YES	NO
			command		

# 4.1.7 setSystemThreshold

#### Access

This function can be used by ADMIN users only

# **Description**

The setSystemThreshold() function sets a threshold on a machine of a system

# Example of use

setSystemThreshold machineId tresholdType value

#### **Parameters**

Parameter	Type	Option	Description	Required
machineId string	etring		The id of the machine the user wants to set the	YES
	sung		treshold over	1123
tresholdType	MetricType		The type of the metric to set	YES
value	double		The treshold value	YES

#### **Environment variables**

Name	Parameter	Туре	Description	Required	User option
VISHNU_SESSION_KEY	sessionKey	string	The key of the session of the user that submits the command	YES	NO

# 4.1.8 getSystemThreshold

# Access

This function can be used by ADMIN users only

# **Description**

The getSystemThreshold() function gets a System threshold on a machine

# Example of use

 $getSystemThreshold\ machine Id\ type$ 

Parameter	Type	Option	Description	Required
machineId	string		The id of the machine the user wants to get the treshold over	YES
type	MetricType		The treshold type desired	YES

Name	Parameter	Туре	Description	Required	User option
VISHNU_SESSION_KEY	sessionKey	string	The key of the session of the user that submits the	YES	NO
			command		

#### 4.1.9 defineUserIdentifier

#### Access

This function can be used by ADMIN users only

## **Description**

The defineUserIdentifier() function defines the shape of the identifiers automatically generated for the users

# Example of use

defineUserIdentifier format

#### **Parameters**

Parameter	Type	Option	Description	Required
format	string		The new format to use	YES

#### **Environment variables**

Name	Parameter	Туре	Description	Required	User option
VISHNU_SESSION_KEY	sessionKey	string	The key of the session of the user that submits the command	YES	NO

#### 4.1.10 defineMachineIdentifier

# Access

This function can be used by ADMIN users only

# **Description**

The defineMachineIdentifier() function defines the shape of the identifiers automatically generated for the machines

# Example of use

defineMachineIdentifier format

Parameter	Type	Option	Description	Required
format	string		The new format to use	YES

Name	Parameter	Туре	Description	Required	User option
VISHNU_SESSION_KEY	sessionKey	string	The key of the session of the user that submits the command	YES	NO

# 4.1.11 defineJobIdentifier

#### Access

This function can be used by ADMIN users only

# **Description**

The defineJobIdentifier() function defines the shape of the identifiers automatically generated for the jobs

# Example of use

defineJobIdentifier format

#### **Parameters**

Parameter	Type	Option	Description	Required
format	string		The new format to use	YES

#### **Environment variables**

Name	Parameter	Type	Description	Required	User option
VISHNU_SESSION_KEY	sessionKey	string	The key of the session of the user that submits the command	YES	NO

# 4.1.12 defineTransferIdentifier

# Access

This function can be used by ADMIN users only

# Description

The defineTransferIdentifier() function defines the shape of the identifiers automatically generated for the file transfers

# Example of use

defineTransferIdentifier format

#### **Parameters**

Parameter	Type	Option	Description	<b>Required</b>
format	string		The new format to use	YES

Name	Parameter	Туре	Description	Required	User option
VISHNU_SESSION_KEY	sessionKey	string	The key of the session of the user that submits the command	YES	NO

# 4.1.13 loadShed

#### Access

This function can be used by ADMIN users only

# Description

The loadShed() function loads shed a machine, 2 modes are available, soft or hard. Soft flushes the machine, hard stops the machine

# Example of use

loadShed machineId loadShedType

#### **Parameters**

Parameter	Туре	Option	Description	Required
machineId	string	/	The id of the machine to stop	YES
loadShedType	LoadShedType		Type of load shedding	YES

#### **Environment variables**

Name	Parameter	Туре	Description	Required	User option
VISHNU_SESSION_KEY	sessionKey	string	The key of the session of the user that submits the	YES	NO
VISHNU_SESSION_KEY	sessionKey	string	user that submits the command	YES	

# 4.1.14 setUpdateFrequency

#### Access

This function can be used by ADMIN users only

#### **Description**

The setUpdateFrequency() function sets the update frequency of the IMS tables

#### Example of use

setUpdateFrequency freq

#### **Parameters**

Parameter	Type	Option	Description	Required
freq	int		Frequency the data are updated, in second	YES

Name	Parameter	Туре	Description	Required	User option
VISHNU_SESSION_KEY	sessionKey	string	The key of the session of the user that submits the command	YES	NO

## 4.1.15 restart

#### Access

This function can be used by ADMIN users only

# Description

The restart() function restarts the whole VISHNU infrastructure. Actions are saved and restarted from the beginning once the infrastructure has been restarted

# Example of use

restart -n componentName type

#### **Parameters**

Parameter	Type	Option	Description	Required
type	RestartType	t	The type of restart desired	YES
componentName	string	n	If not restarting all, the name of the component to restart	NO

#### **Environment variables**

Name	Parameter	Туре	Description	Required	User option
VISHNU_SESSION_KEY	sessionKey	string	The key of the session of the user that submits the command	YES	NO

# 4.1.16 updateMachine

#### Access

This function can be used by ADMIN users only

#### **Description**

The updateMachine() function updates the machines information in the database (description, diskspace or memory)

#### Example of use

updateMachine -l lang machineId CompoMachine

#### **Parameters**

Parameter	Type	Option	Description	Required
machineId	string		The id of the machine to update	YES
CompoMachine	CompoMachine		A description of the type of component to change	YES
lang	string	1	For machine description, the language used	NO

Name	Parameter	Туре	Description	Required	User option
VISHNU_SESSION_KEY	sessionKey	string	The key of the session of the user that submits the command	YES	NO

# 4.2 Parameters definitions

# **ExportType Enumeration Type**

Name	Value	
PYTHON	0	
SHELL	1	

# **MetricType Enumeration Type**

Name	<b>V</b> alue
CPUNBR	0
CPUUSE	1
DISKSPACE	2
FREEDISKSPACE	3
MEMORY	4
FREEMEMORY	5

# **LoadShedType Enumeration Type**

Name	Value
SOFT	0
HARD	1

# **RestartType Enumeration Type**

Name	V <mark>alue</mark>
ALL	0
SED	1
AGENT	2
DAEMON	3
MACHINE	4

# **CompoMachine Enumeration Type**

Name	Value
DESC	0
DISKSPACE	1
RAM	2

# **Chapitre 5**

# API specification for File Management System (FMS)

# 5.1 Command definitions

# 5.1.1 createFile

#### Access

This function can be used by any Vishnu user.

#### **Description**

The createFile() function creates files on remote machines.

# Example of use

createFile -m mode machineId sessionKey - listOfStrings

#### **Parameters**

Parameter	Type	Option	<b>Description</b>	Required
machineId	string		The machine identifier	YES
sessionKey	string		The session identifier	YES
listOfStrings	string	TO DO	TO DO	NO
mode	long	m	the file access permissions.	NO

#### **Environment variables**

Name	Parameter	Туре	Description	Required	User option
------	-----------	------	-------------	----------	-------------

#### 5.1.2 createDir

#### Access

This function can be used by any Vishnu user.

## **Description**

The createDir() function creates directories on remote machines.

#### Example of use

createDir -m mode machineId sessionKey - listOfStrings

#### **Parameters**

Parameter	Type	Option	Description	Required
machineId	string		The machine identifier	YES
sessionKey	string		The session idientifier	YES
listOfStrings	string	TO	TO DO	NO
listOfStrings	sumg	DO	10 00	NO
mode	long	m	the new directories permission access.	NO

#### **Environment variables**

Name	Parameter	Туре	Description	Required User option
------	-----------	------	-------------	----------------------

#### 5.1.3 removeFile

#### Access

This function can be used by any Vishnu user.

#### **Description**

The removeFile() function removes files from remote hosts.

# Example of use

removeFile machineId sessionKey - listOfStrings

#### **Parameters**

Parameter	Type	Option	Description	Required
machineId	string		The machine identifier	YES
sessionKey	string		The session id	YES
listOfStrings	string	TO DO	TO DO	NO

#### **Environment variables**

ame Parameter	Type	Description	Re <mark>quir</mark> ed User option	
---------------	------	-------------	-------------------------------------	--

# 5.1.4 removeDir

# Access

This function can be used by any Vishnu user.

# Description

The removeDir() function removes a directory from a remote machine

# Example of use

removeDir machineId sessionKey - listOfStrings

Parameter	Type	Option	Description	Required
machineId	string		The machine identifier	YES

Parameter	Type	Option	Description	Required
sessionKey	string		The session id	YES
listOfStrings	string	TO DO	TO DO	NO

Name Parameter	Туре	Description	Required	User option
----------------	------	-------------	----------	-------------

# 5.1.5 headOfFile

#### Access

This function can be used by any Vishnu user.

#### **Description**

The headOfFile() function displays a few first lines of file located on a remote machine

# Example of use

headOfFile -n nLine machineId sessionKey - listOfStrings

#### **Parameters**

Parameter	Type		Option	Description	Required
machineId	string			The machine identifier	YES
sessionKey	string	-		The session id	YES
listOfStrings	string		TO DO	TO DO	NO
nLine	int		n	number of lines to display	NO

#### **Environment variables**

Name	Parameter	Type	Description	Required	User
Name	1 at afficter	Туре	Description	Required	option

## 5.1.6 tailOfFile

#### Access

This function can be used by any Vishnu user.

# Description

The tailOfFile() function displays a few last lines of file located on a remote machine

# Example of use

tailOfFile -n nLine machineId sessionKey - listOfStrings

Parameter	Type	Option	Option Description	
machineId	string		The machine identifier	YES
sessionKey	string		The session id	YES
listOfStrings	string	ТО	TO DO	NO
nsterbumgs	String	DO	10 20	110
nLine	int	n	number of lines to display	NO

Name	Parameter	Туре	Description	Rec	quired User option	
------	-----------	------	-------------	-----	--------------------	--

# 5.1.7 chGrpOfFile

#### Access

This function can be used by any Vishnu user.

# **Description**

The chGrpOfFile() function changes group owner of a remote file.

# Example of use

chGrpOfFile machineId sessionKey - listOfStrings group

#### **Parameters**

Parameter	Type	Op	otion	<b>Description</b>	Required
machineId	string			The machine identifier	YES
sessionKey	string			The session id	YES
listOfStrings	string	TC DC		TO DO	NO
group	string			the new group owner of file	YES

#### **Environment variables**

Name	Parameter	Type	Description	Required User
Name	1 at afficter	Type	Description	option

# 5.1.8 chModOfFile

# Access

This function can be used by any Vishnu user.

# Description

The chModOfFile() function changes a acces rights of a remote file.

# Example of use

chModOfFile machineId sessionKey - listOfStrings mode

#### **Parameters**

Parameter	Type	Option	Description	Required
machineId	string		The machine identifier	YES
sessionKey	string		The session id	YES
listOfStrings	string	TO DO	TO DO	NO
mode	long		the access rigths of a file	YES

Name	Parameter	Type	Description	Required	User
Name	1 at afficter	Турс	Description	Required	option

# 5.1.9 listDir

#### Access

This function can be used by any Vishnu user.

# **Description**

The listDir() function displays the contents of remote directory.

# Example of use

listDir machineId sessionKey - listOfStrings

#### **Parameters**

Parameter	Type	Option	Description	Required
machineId	string		The machine identifier	YES
sessionKey	string		The session id	YES
listOfStrings	string	ТО	TO DO	NO
8	8	DO		

#### **Environment variables**

Name	Parameter	Туре	Description	Required	User option
					option

# 5.1.10 copyFile

#### Access

This function can be used by any Vishnu user.

# Description

The copyFile() function executes a synchronous copy of file.

#### Example of use

copyFile - listOfStrings machineId sessionKey - listOfStrings dest

#### **Parameters**

Parameter	Type	<b>Option</b>	Description	Required	
machineId	string		The machine identifier	YES	
sessionKey	string		The session ididentifier	YES	
listOfStrings	string	TO	TO DO	NO	
listorsumgs	sumg	DO	10 00	NO	
dest	string		The path of the destination file	YES	
listOfStrings	string	TO	TODO	NO	
listorsumgs	Suilig	DO	1000	NO	

# **Environment variables**

Name Parame	er i rane	Description	Required	User option	
-------------	-----------	-------------	----------	-------------	--

# 5.1.11 copyAsyncFile

#### Access

This function can be used by any Vishnu user.

# **Description**

The copyAsyncFile() function executes an asynchronous copy of file.

#### Example of use

copyAsyncFile machineId sessionKey - listOfStrings dest

#### **Parameters**

Parameter	Type	Option	Description	Required
machineId	string		The machine identifier	YES
sessionKey	string		The session identifier	YES
listOfStrings	string	TO DO	TO DO	NO
dest	string		The path of the destination file	YES

#### **Environment variables**

Option		Name	Parameter	Type	Description	Required	User option
--------	--	------	-----------	------	-------------	----------	----------------

#### 5.1.12 moveFile

#### Access

This function can be used by any Vishnu user.

# **Description**

The moveFile() function executes a synchronous move of file.

#### Example of use

moveFile machineId sessionKey - listOfStrings dest

#### **Parameters**

Parameter	Type	Option	Description	Required
machineId	string		The machine identifier	YES
sessionKey	string		The session identifier	YES
listOfStrings	string	TO DO	TO DO	NO
dest	string		The path of the destination file	YES

#### **Environment variables**

Name Parameter Type	Description	Required	User option
---------------------	-------------	----------	----------------

# 5.1.13 moveAsyncFile

#### Access

This function can be used by any Vishnu user.

# **Description**

The moveAsyncFile() function executes an asynchronous move of file.

# Example of use

moveAsyncFile machineId sessionKey - listOfStrings dest

#### **Parameters**

Parameter	Type	Option	Description	Required
machineId	string		The machine identifier	YES
sessionKey	string		The session identifier	YES
listOfStrings	string	TO DO	TO DO	NO
dest	string		The path of the destination file	YES

#### **Environment variables**

Name	Parameter	Type	Description	Required User option
------	-----------	------	-------------	----------------------

# 5.1.14 stopFileTransfer

#### Access

This function can be used by any Vishnu user.

#### **Description**

The stopFileTransfer() function stops an execution of an set of file transfer.

#### Example of use

stopFileTransfer machineId sessionKey - listOfLongs

## **Parameters**

Parameter	Type	Option	<b>Description</b>	Required
machineId	string		The machine identifier	YES
sessionKey	string		The session identifier	YES
listOfLongs	long	TO DO	TO DO	NO

# **Environment variables**

Name Parameter Type	Description	Required	User option	
---------------------	-------------	----------	----------------	--

# 5.1.15 stopAllFileTransfer

#### Access

This function can be used by any Vishnu user.

#### **Description**

The stopAllFileTransfer() function stops all file transfer in a session.

# Example of use

stopAllFileTransfer machineId sessionKey

Parameter	Type	Option	Description	Required
machineId	string		The machine identifier	YES
sessionKey	string		The session identifier	YES

Name	Parameter Tu		D	Description	n Requi	Required	User
Name	1 at afficter	Type	D	escription	Kequi	leu	option

# 5.1.16 stopAllUsersFileTransfer

#### Access

This function can be used by ADMIN users only

# Description

The stopAllUsersFileTransfer() function stops all users file transfer.

# Example of use

stopAllUsersFileTransfer machineId sessionKey

#### **Parameters**

Parameter	Type	Option	Description	Required
machineId	string		The machine identifier	YES
sessionKey	string		The session identifier	YES

#### **Environment variables**

Name Parameter	Туре	Description	Required User option
----------------	------	-------------	----------------------

# 5.1.17 getFileTransferStatus

#### Access

This function can be used by any Vishnu user.

#### **Description**

The getFileTransferStatus() function gives the status of a list of file transfer.

#### Example of use

getFileTransferStatus machineId sessionKey - listOfLongs

## **Parameters**

Parameter	Type	Option	<b>Description</b>	Required
machineId	string		The machine identifier	YES
sessionKey	string		The session identifier	YES
listOfLongs	long	TO DO	TO DO	NO

Name	Darameter	Type	Description	Doguired	User
Name	Parameter	Type	Description	Required	option

#### 5.1.18 listFilesTransferStatus

#### Access

This function can be used by any Vishnu user.

# Description

The listFilesTransferStatus() function displays the status of all files transfer submitted by User.

#### Example of use

listFilesTransferStatus machineId sessionKey

#### **Parameters**

Parameter	Туре	Option	<b>Description</b>	Required
machineId	string		The machine identifier	YES
sessionKey	string		The session id	YES

#### **Environment variables**

Nama	Danamatan	Tyme	Description	Dogwinod	User
Name	Parameter	Туре	Description	Required	option

#### 5.1.19 listAllUsersFilesTransferStatus

#### Access

This function can be used by ADMIN users only

#### Description

The listAllUsersFilesTransferStatus() function displays the status of all files transfer submitted by User.

#### Example of use

listAllUsersFilesTransferStatus machineId sessionKey

#### **Parameters**

Parameter	Type	Option	Description	Requir <mark>ed</mark>
machineId	string		The machine identifier	YES
sessionKey	string		The session id	YES

# **Environment variables**

Name	Parameter	Туре	Description	Required	User option
					option

# 5.1.20 DisplayFilesTransferHistory

# Access

This function can be used by any Vishnu user.

# Description

The DisplayFilesTransferHistory() function displays the history of all files transfer submitted by User.

# Example of use

DisplayFilesTransferHistory machineId sessionKey - listOfLongs

#### **Parameters**

Parameter	Type	Option	Description	Required
machineId	string		The machine identifier	YES
sessionKey	string		The session id	YES
listOfLongs	long	TO DO	TO DO	NO

#### **Environment variables**

Name	Parameter	Type	Description	Required User
Tunic	Tarameter	Турс	Description	option

# 5.1.21 DisplayAllUsersFilesTransferHistory

#### Access

This function can be used by ADMIN users only

#### **Description**

The DisplayAllUsersFilesTransferHistory() function displays the history of all files transfer submitted by all Users.

#### Example of use

DisplayAllUsersFilesTransferHistory machineId sessionKey

#### **Parameters**

Parameter	Type	Option	<b>Description</b>	Required
machineId	string		The machine identifier	YES
sessionKey	string		The session id	YES

#### **Environment variables**

nme P	Parameter Type	Description	Re <mark>quir</mark> ed	User option
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# 5.1.22 GetFilesInfo

# Access

This function can be used by any Vishnu user.

# Description

The GetFilesInfo() function displays the information of files.

#### Example of use

GetFilesInfo machineId sessionKey

Parameter	Type	Option	Description	Required
machineId	string		The machine identifier	YES
sessionKey	string		The session id	YES

Name Paramete	Туре	Description	Required User option
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# 5.2 Parameters definitions