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	TITLE : VISHNU D1.0 - Comma	and line interface speci-	
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Chapter 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 level of the command line (i.e. the privilege required to use this command)

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	Required
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

Chapter 2

Commands specification for User Management System (UMS)

2.1 Command definitions

2.1.1 UMS connect

Access

This command line can be used by any Vishnu user.

Description

The connect command line opens a session

Example of use

connect -p closePolicy -d sessionInactivityDelay -s substituteUserId 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
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

Environment variables

This command defines no environment variables.

2.1.2 UMS reconnect

Access

This command line can be used by any Vishnu user.

Description

The reconnect command line 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	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
sessionId	string		sessionId is the identifier of the session defined in the database	YES

Environment variables

This command defines no environment variables.

2.1.3 UMS addVishnuUser

Access

This command line can be used by ADMIN users only

Description

The addVishnuUser command line adds a new VISHNU user

Example of use

addVishnuUser -w password -f firstname -l lastname -p privilege -m email userId

Parameters

Parameter	Type	Option	Description	Required
userId string			represents the VISHNU user identifier	YES
is the password of the user. At the		is the password of the user. At the beginning, an		
password	string	w	admin can give a temporary password or it is	NO
			automatically generated by the System.	
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

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

2.1.4 UMS updateUser

Access

This command line can be used by ADMIN users only

Description

The updateUser command line 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
firstname	string	f	represents the updated firstname of the user	NO
lastname	string	1	represents the updated lastname of the user	NO
privilege	string	p	represents the updated privilege of the user	NO
email	string	m	represents the updated email adress of the user	NO
userId	string		represents the VISHNU user identifier of the user	YES
usciiu	Sumg		whose information will be updated	1123

Environment variables

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

2.1.5 UMS deleteUser

Access

This command line can be used by ADMIN users only

Description

The deleteUser command line removes a user from VISHNU

Example of use

deleteUser userId

Parameters

Parameter	Type	Option	Description	Required
userId	string		userId represents the VISHNU user identifier of	YES
			the user who will be deleted from VISHNU	1123

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

2.1.6 UMS close

Access

This command line can be used by any Vishnu user.

Description

The close command line closes the session identified by the session key

Example of use

close

Parameters

This command defines no arguments.

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 UMS changePassword

Access

This command line can be used by any Vishnu user.

Description

The changePassword command line 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

Environment variables

This command defines no environment variables.

2.1.8 UMS resetPassword

Access

This command line can be used by ADMIN users only

Description

The resetPassword command line resets the password of a user

Example of use

resetPassword userId

Parameter	Type	Option	Description	Required
userId	string		userId represents the VISHNU user identifier of	YES
			the user whose password will be reset	120

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

2.1.9 UMS addLocalAccount

Access

This command line can be used by any Vishnu user.

Description

The addLocalAccount command line adds a new local user configuration

Example of use

addLocalAccount -l acLogin -s sshKeyPath -h HomeDirectory userId

Parameters

Parameter	Type	Option	Description	Required	
userId	string		The userId represents the VISHNU user identifier	YES	
useria	sumg		of the user of the local user configuration	1123	
machineId	string		The MachineId represents the identifier of the	YES	
macimieiu	sumg		machine associated to the local user configuration	1123	
acLogin	string	1	accLogin represents the login of the user on the	NO	
acLogiii	sumg	1	associated machine	INO	
och V ov Doth	string	6	sshKeyPath is the path of the ssh key of the user	NO	
sshKeyPath	sumg	S	on the associated machine	INO	
Uoma Diractory	string	h	HomeDirectory is the path of the home directory	NO	
HomeDirectory	Sumg	11	of the user on the associated machine	INO	

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

2.1.10 UMS updateLocalAccount

Access

This command line can be used by any Vishnu user.

Description

The updateLocalAccount command line updates a local user configuration

Example of use

updateLocalAccount -l acLogin -s sshKeyPath -h HomeDirectory userId

Parameters

Parameter	Type	Option	Description	Required
userId	string		The userId represents the VISHNU user identifier	YES
useriu	sumg		of the user of the local user configuration	ILS
machineId	string		The MachineId represents the identifier of the	YES
machinerd	sumg		machine associated to the local user configuration	ILS
acLogin	string	1	accLogin represents the login of the user on the	NO
acLogin	sumg	1	associated machine	110
sshKeyPath	string	s	sshKeyPath is the path of the ssh key of the user	NO
ssincyraui	string	3	on the associated machine	110
HomeDirectory	string	h	HomeDirectory is the path of the home directory	NO
	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 UMS deleteLocalAccount

Access

This command line can be used by any Vishnu user.

Description

The deleteLocalAccount command line removes a local user configuration (for a given user on a given machine) from VISHNU

Example of use

deleteLocalAccount userId machineId

Parameters

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

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

2.1.12 UMS saveConfiguration

Access

This command line can be used by ADMIN users only

Description

The saveConfiguration command line saves the configuration of VISHNU

Example of use

saveConfiguration

Parameters

This command defines no arguments.

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

2.1.13 UMS restoreConfiguration

Access

This command line can be used by ADMIN users only

Description

The restoreConfiguration command line restores the configuration of VISHNU

Example of use

restoreConfiguration -d descConf

Parameters

Parameter	Type	Option	Description	Required
descConf	string	d	represents the description of the configuration	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

2.1.14 UMS addMachine

Access

This command line can be used by ADMIN users only

Description

The addMachine command line adds a new machine in VISHNU

Example of use

addMachine -n name -s site -t machineDescription -l language 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
machineDescription	string	t	represents the description of the machine	NO
language	string	1	represents the language in which the description has been done	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 UMS updateMachine

Access

This command line can be used by ADMIN users only

Description

The updateMachine command line updates machine description

Example of use

updateMachine -n name -s site -t machineDescription -l language 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
machineDescription	string	t	represents the description of the machine	NO
language	string	1	represents the language in which the description	NO
	sumg	1	has been done	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

2.1.16 UMS deleteMachine

Access

This command line can be used by ADMIN users only

Description

The deleteMachine command line removes a machine from VISHNU

Example of use

deleteMachine machineId

Parameters

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

2.1.17 UMS listLocalAccount

Access

This command line can be used by any Vishnu user.

Description

The listLocalAccount command line lists the local user configurations

Example of use

listLocalAccount -u userId -i machineId

Parameters

Parameter	Type	Option	Description	Required
AdminListOption b	boolean	0	is an admin option for listing all local	NO
	boolcan	a	configurations of all users	NO
userId	string	,,	is an admin option for listing the local	NO
	string	u	configurations of a specific user	NO
machineId	string	i	is an option for listing local user configurations	NO
	string	1	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

2.1.18 UMS listMachine

Access

This command line can be used by any Vishnu user.

Description

The listMachine command line lists the machines in which local user configurations are defined for the given user

Example of use

listMachine -u userId -m machineId

Parameters

Parameter	Type	Option	Description	Required
userId string	etring	u	is an admin option for listing machines in which	NO
	l u	a specific user has a local configuration	110	
List AllOntion	boolean		is an admin option for listing all machine defined	NO
ListAllOption boolea	Doolean	a	in the database	NO
machineId	string	m	is an option for listing information about a	NO
macimieiu	sumg	m	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

2.1.19 UMS listOptions

Access

This command line can be used by any Vishnu user.

Description

The listOptions command line lists the options of the user

Example of use

listOptions -u userId -n optionName

Parameters

Parameter	Type	Option	Description	Required
AdminListOption	boolean	a	is an admin option for listing all user options defined in VISHNU	NO
userId	string	u	is an admin option for listing the options of a specific user	NO
optionName	string	n	allows the user to list a specific option identified by its name	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

2.1.20 UMS listHistoryCmd

Access

This command line can be used by any Vishnu user.

Description

The listHistoryCmd command line lists the commands

Example of use

listHistoryCmd -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

2.1.21 UMS listUsers

Access

This command line can be used by ADMIN users only

Description

The listUsers command line lists users

Example of use

listUsers -i userIdOption

Parameters

Parameter	Type	Option	Description	Required
userIdOption	string	i	allows an admin to list one user identified by his/her userId	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

2.1.22 UMS listSessions

Access

This command line can be used by any Vishnu user.

Description

The listSessions command line lists all sessions of the user

Example of use

 $\label{listSessions-t} \begin{tabular}{l} listSessions -t sessionListOption -p sessionClosePolicy -d sessionInactivityDelay -m machineId -u userId -i sessionId -s start-DateOption -e endDateOption \\ \end{tabular}$

Parameters

Parameter	Type	Option	Description	Required
sessionListOption	SessionStateType	t	specifies the type of the sessions which will be listed (INACTIVE or ACTIVE)	NO
sessionClosePolicy	SessionCloseType	p	specifies the closure mode of the sessions which will be listed (CLOSE_ON_TIMEOUT or CLOSE_ON_DISCONNECT)	NO
sessionInactivityDelay	int	d	specifies the inactivity delay of the sessions which will be listed	NO
machineId	string	m	allows the 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 sessions opened by a specific user	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

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 UMS configureOption

Access

This command line can be used by any Vishnu user.

Description

The configureOption command line configures an option

Example of use

configureOption 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

2.1.24 UMS configure Default Option

Access

This command line can be used by ADMIN users only

Description

The configureDefaultOption command line 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

Enumeration UMS::SessionCloseType Type

Name	Value
CLOSE_ON_DISCONNECT	0
CLOSE_ON_TIMEOUT	1

Enumeration UMS::SessionStateType Type

Name	Value
INACTIVE	0
ACTIVE	1

Chapter 3

Commands specification for Tasks Management System (TMS)

3.1 Command definitions

3.1.1 TMS submitJob

Access

This command line can be used by any Vishnu user.

Description

The submitJob command line submits job on a machine through the use of a script (scriptFilePath). The script is a shell script which will be executed by a command shell such as sh or csh.

Example of use

submitJob - \mathbf{n} name - \mathbf{p} priority - \mathbf{q} queue - \mathbf{t} wallTime - \mathbf{m} memory - \mathbf{P} nbCpu - \mathbf{N} nbNodesAndCpuPerNode - \mathbf{o} OutPutPath - \mathbf{e} ErrorPath machineId scriptFilePath

Parameters

Parameter	Туре	Option	Description	Required
machineId	string		Is the id of the machine where the job must be	YES
macimieiu	sumg		submitted	1 E3
			The path to the file containing the characteristics	
scriptFilePath	string		(job command, and batch scheduler directive	YES
			required or optional) of the job to submit.	
name	string	n	Assigns a job name. The default is the name of	NO
name	sumg	11	job path.	NO
priority	JobPriority	p	Assigns priority of the job.	NO
queue	string	q	Assigns the queue or class of the job.	NO
wallTime	int	t	The maximum wall-clock time during which the	NO
wan i iiic	IIIt	·	job can run.	110
memory	int	m	The size of memory that the job will use.	NO
nbCpu	int	P	The number of cpu that the job will use.	NO
nbNodesAndCpuPerNode	int	N	The number of nodes and processors per node.	NO
OutPutPath	string	0	Assigns the path and file for job output.	NO
ErrorPath	string	e	Assigns the path and file for job error.	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

3.1.2 TMS listJobs

Access

This command line can be used by any Vishnu user.

Description

The listJobs command line gets a list of all submitted jobs

Example of use

list Jobs -i JobId -P nbCpu -d from SubmitDate -D to SubmitDate -u owner -s status -p priority -o OutPutPath -e Error Path -q queue machineId

Parameters

Parameter	Type	Option	Description	Required
machineId	string		Machine hash key	YES
JobId	string	i	To list job which has this id.	NO
nbCpu	int	P	To list jobs which have this number of cpu.	NO
fromSubmitDate	long	d	List jobs submitted after this date (unix timestamp).	NO
toSubmitDate	long	D	List jobs submitted before this date (unix timestamp)	NO
owner	string	u	To list all jobs submitted by this owner.	NO
status	JobStatus	S	To list jobs which have this status.	NO
priority	JobPriority	p	To list jobs which have this priority	NO
OutPutPath	string	0	Gets the path and file for each job output.	NO
ErrorPath	string	e	Gets the path and file for each job error.	NO
queue	string	q	To list jobs which have this queue 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

3.1.3 TMS getJobInfo

Access

This command line can be used by any Vishnu user.

Description

The getJobInfo command line gets information on a job from it Id

Example of use

getJobInfo machineId jobId

Parameter	Type	Option	Description	Required
machineId	string		Machine hash key	YES
jobId	string		The id of the job	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

3.1.4 TMS cancelJob

Access

This command line can be used by any Vishnu user.

Description

The cancelJob command line cancels a job from it Id

Example of use

cancelJob machineId jobId

Parameters

Parameter	Type	Option	Description	Required
machineId	string		Machine hash key	YES
jobId	string		The Id of the job	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

3.1.5 TMS getJobOutPut

Access

This command line can be used by any Vishnu user.

Description

The getJobOutPut command line gets outputPath and errorPath of a job from it Id

Example of use

getJobOutPut machineId jobId

Parameter	Type	Option	Description	Required
machineId	string		Machine hash key	YES
jobId	string		The Id of the job	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

3.1.6 TMS getAllJobsOutPut

Access

This command line can be used by any Vishnu user.

Description

The getAllJobsOutPut command line gets outputPath and errorPath of completed jobs dynamically

Example of use

getAllJobsOutPut machineId

Parameters

Parameter	Type	Option	Description	Required
machineId	string		Machine hash key	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

3.1.7 TMS listQueues

Access

This command line can be used by any Vishnu user.

Description

The listQueues command line gets queues information

Example of use

listQueues machineId

Parameters

Parameter	Type	Option Description		Required
machineId	string		Machine hash key	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

3.1.8 TMS setMachineEnv

Access

This command line can be used by ADMIN users only

Description

The setMachineEnv command line sets environment variables on a remote machine

Example of use

setMachineEnv machineId listEnv

Parameters

Parameter	Type	Option	Description	Required
machineId	string		Represents the machine id	YES
listEnv	string		Represents the list environement variables	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

3.1.9 TMS setMachineRefreshPeriod

Access

This command line can be used by ADMIN users only

Description

The setMachineRefreshPeriod command line sets the refresh period of output and error file content

Example of use

setMachineRefreshPeriod machineId value

Parameters

Parameter	Type	Option	Description	Required
machineId	string		The id of the machine	YES
value	int		Is the refresh interval value (in seconds)	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

3.1.10 TMS getJobProgress

Access

This command line can be used by any Vishnu user.

Description

The getJobProgress command line get the progression status of jobs.

Example of use

getJobProgress -i jobId -u jobOwner machineId

Parameters

Parameter	Type	Option	Description	Required
machineId	string		Is the id of the machine to get the jobs	YES
	sumg		progression.	1123
jobId st	string	i	Represents the id of the job that the user wants to	NO
	sumg	Sumg	see its progression.	NO
jobOwner	string	u	Represents the owner of the job.	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

3.2 Parameters definitions

Enumeration TMS::JobPriority Type

Name	Value
VERY_LOW	100
LOW	200
NORMAL	300
HIGH	400
VERY_HIGH	500

Enumeration TMS::JobStatus Type

Name	Value
RUNNING	0
WAITING	1
COMPLETED	2
CANCELED	3
HELD	4

Name	Value
QUEUED	5
FAILED	6
NOT_SUBMITTED	7

Enumeration TMS::QueuePriority Type

Name	Value
VERY_LOW	0
LOW	1
NORMAL	2
HIGH	3
VERY_HIGH	4

Enumeration TMS::QueueStatus Type

Name	Value
STARTED	0
RUNNING	1
NOT_STARTED	2
NOT_AVAILABLE	3

Chapter 4

Commands specification for Information Management System (IMS)

4.1 Command definitions

4.1.1 IMS exportCommands

Access

This command line can be used by any Vishnu user.

Description

The exportCommands command line exports all the commands made by a user during a session

Example of use

exportCommands oldSessionKey

Parameters

Parameter	Type	Option	Description	Required
oldSessionKey	string		The key of the session to export (session has ended)	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

4.1.2 IMS getMetricCurrentValue

Access

This command line can be used by any Vishnu user.

Description

The getMetricCurrentValue command line retrieve the current value of a metric on a machine

Example of use

getMetricCurrentValue machineId metricType

Parameters

Parameter	Type	Option	Description	Required
machineId	string		The id of the machine	YES
metricType	MetricType		Type of metric	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

4.1.3 IMS getMetricHistory

Access

This command line can be used by any Vishnu user.

Description

The getMetricHistory command line retrieve the history of values of a metric on a machine

Example of use

getMetricHistory machineId startTime endTime metricType

Parameters

Parameter	Type	Option	Description	Required
machineId	string		The id of the machine	YES
startTime	long		Start time of metric history	YES
endTime	long		End time of metric history	YES
metricType	MetricType		Type of metric	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

4.1.4 IMS getProcesses

Access

This command line can be used by ADMIN users only

Description

The getProcesses command line gets the list of the processes running over a front machine

Example of use

getProcesses machineId

Parameters

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

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

4.1.5 IMS setSystemInfo

Access

This command line can be used by ADMIN users only

Description

The setSystemInfo command line updates the system information of a machine

Example of use

setSystemInfo machineId machineId -null memory -null diskSpace

Parameters

Parameter	Type	Option	Description	Required
machineId	string		The id of the machine	YES
memory	long		Amount of RAM memory available on the machine (in Bytes)	NO
diskSpace	long		Amount of disk space available on the machine (in KBytes)	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

4.1.6 IMS setSystemThreshold

Access

This command line can be used by ADMIN users only

Description

The setSystemThreshold command line sets a threshold on a machine of a system

Example of use

setSystemThreshold machineId tresholdType value

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

4.1.7 IMS getSystemThreshold

Access

This command line can be used by ADMIN users only

Description

The getSystemThreshold command line gets a System threshold on a machine

Example of use

getSystemThreshold machineId type

Parameters

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

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 IMS defineUserIdentifier

Access

This command line can be used by ADMIN users only

Description

The defineUserIdentifier command line defines the shape of the identifiers automatically generated for the users

Example of use

defineUserIdentifier 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

4.1.9 IMS defineMachineIdentifier

Access

This command line can be used by ADMIN users only

Description

The defineMachineIdentifier command line defines the shape of the identifiers automatically generated for the machines

Example of use

defineMachineIdentifier 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 IMS defineJobIdentifier

Access

This command line can be used by ADMIN users only

Description

The defineJobIdentifier command line 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

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 IMS defineTransferIdentifier

Access

This command line can be used by ADMIN users only

Description

The defineTransferIdentifier command line defines the shape of the identifiers automatically generated for the file transfers

Example of use

defineTransferIdentifier 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

4.1.12 IMS loadShed

Access

This command line can be used by ADMIN users only

Description

The loadShed command line load sheds a machine

Example of use

loadShed machineId loadShedType

Parameters

Parameter	Type	Option	Description	Required
machineId	string		The id of the machine to stop	YES
loadShedType	LoadShedType		Selects a load shedding mode (SOFT: flushes all services, HARD: stops all services)	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 IMS setUpdateFrequency

Access

This command line can be used by ADMIN users only

Description

The setUpdateFrequency command line 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

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

4.1.14 IMS getUpdateFrequency

Access

This command line can be used by any Vishnu user.

Description

The getUpdateFrequency command line gets the update frequency of the IMS database

Example of use

getUpdateFrequency

Parameters

This command defines no arguments.

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 IMS restart

Access

This command line can be used by ADMIN users only

Description

The restart command line 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

4.2 Parameters definitions

Enumeration IMS::LoadShedType Type

Name	Value
SOFT	0
HARD	1

Enumeration IMS::MetricType Type

Name	Value
CPUNBR	0
CPUUSE	1
DISKSPACE	2
FREEDISKSPACE	3
MEMORY	4
FREEMEMORY	5

Enumeration IMS::RestartType Type

Name	Value
ALL	0
SED	1
AGENT	2
DAEMON	3
MACHINE	4

Chapter 5

API specification for File Management System (FMS)

5.1 Command definitions

5.1.1 FMS createFile

Access

This command line can be used by any Vishnu user.

Description

The createFile command line creates files on remote machines.

Example of use

createFile -m mode sessionKey sessionKey -null listOfStrings

Parameters

Parameter	Type	Option	Description	Required
sessionKey	string		The session identifier	YES
listOfStrings	string		the dynamic list of strings.	NO
mode	long	m	the file access permissions.	NO

Environment variables

This command defines no environment variables.

5.1.2 FMS createDir

Access

This command line can be used by any Vishnu user.

Description

The createDir command line creates directories on remote machines.

Example of use

createDir -m mode sessionKey sessionKey -null listOfStrings

Parameter	Type	Option	Description	Required
sessionKey	string		The session idientifier	YES
listOfStrings	string		the dynamic list of strings.	NO
mode	long	m	the new directories permission access.	NO

This command defines no environment variables.

5.1.3 FMS removeFile

Access

This command line can be used by any Vishnu user.

Description

The removeFile command line removes files from remote hosts.

Example of use

removeFile sessionKey sessionKey -null listOfStrings

Parameters

Parameter	Type	Option	Description	Required
sessionKey	string		The session id	YES
listOfStrings	string		the dynamic list of strings.	NO

Environment variables

This command defines no environment variables.

5.1.4 FMS removeDir

Access

This command line can be used by any Vishnu user.

Description

The removeDir command line removes directories (and subdirectories) from remote machines.

Example of use

removeDir sessionKey sessionKey -null listOfStrings

Parameters

Parameter	Type	Option	Description	Required
sessionKey	string		The session id	YES
listOfStrings	string		the dynamic list of strings.	NO

Environment variables

This command defines no environment variables.

5.1.5 FMS chGrpOfFile

Access

This command line can be used by any Vishnu user.

Description

The chGrpOfFile command line changes group owner of remote files.

Example of use

chGrpOfFile sessionKey sessionKey -null listOfStrings group

Parameters

Parameter	Type	Option	Description	Required
sessionKey	string		The session id	YES
listOfStrings	string		the dynamic list of strings.	NO
group	string		the new group owner of files.	YES

Environment variables

This command defines no environment variables.

5.1.6 FMS chModOfFile

Access

This command line can be used by any Vishnu user.

Description

The chModOfFile command line changes access rights of remote files.

Example of use

chModOfFile sessionKey sessionKey -null listOfStrings mode

Parameters

Parameter	Type	Option	Description	Required
sessionKey	string		The session id	YES
listOfStrings	string		the dynamic list of strings.	NO
mode	long		the access rigths of a file	YES

Environment variables

This command defines no environment variables.

5.1.7 FMS headOfFile

Access

This command line can be used by any Vishnu user.

Description

The headOfFile command line displays a few first lines of files located on remote machines.

Example of use

 $headOfFile \textbf{-n} \ nLine \ sessionKey \ sessionKey \ -null \ listOfStrings$

Parameter	Type	Option	Description	Required
sessionKey	string		The session id	YES

Parameter	Type	Option	Description	Required
listOfStrings	string		the dynamic list of strings.	NO
nLine	int	n	number of lines to display	NO

This command defines no environment variables.

5.1.8 FMS tailOfFile

Access

This command line can be used by any Vishnu user.

Description

The tailOfFile command line displays a few last lines of files located on remote machines

Example of use

tailOfFile -n nLine sessionKey sessionKey -null listOfStrings

Parameters

Parameter	Type	Option	Description	Required
sessionKey	string		The session id	YES
listOfStrings	string		the dynamic list of strings.	NO
nLine	int	n	number of lines to display	NO

Environment variables

This command defines no environment variables.

5.1.9 FMS listDir

Access

This command line can be used by any Vishnu user.

Description

The listDir command line displays the contents of remote directory.

Example of use

listDir sessionKey sessionKey -null listOfStrings

Parameters

Parameter	Type	Option	Description	Required
sessionKey	string		The session id	YES
listOfStrings	string		the dynamic list of strings.	NO
1	boolean	TO	TO DO	NO
longFormat	boolean	DO		NO
allFiles	boolean	TO	TO DO	NO
alifiles	boolean	DO	10 00	NO

Environment variables

This command defines no environment variables.

5.1.10 FMS copyFile

Access

This command line can be used by any Vishnu user.

Description

The copyFile command line executes a synchronous copy of file.

Example of use

copyFile -c transferCommand machineId sessionKey machineId sessionKey -null listOfStrings dest

Parameters

Parameter	Туре	Option	Description	Required
machineId	string		The machine identifier	YES
sessionKey	string		The session ididentifier	YES
listOfStrings	string		the dynamic list of strings.	NO
dest	string		The path of the destination file	YES
isRecursive	boolean	TO DO	TO DO	NO
transferCommand	TransferCommand	С	the command to use to perform file transfer.	NO

Environment variables

This command defines no environment variables.

5.1.11 FMS copyAsyncFile

Access

This command line can be used by any Vishnu user.

Description

The copyAsyncFile command line executes an asynchronous copy of file.

Example of use

copyAsyncFile -c transferCommand machineId sessionKey machineId sessionKey -null listOfStrings dest

Parameters

Parameter	Type	Option	Description	Required
machineId	string		The machine identifier	YES
sessionKey	string		The session identifier	YES
listOfStrings	string		the dynamic list of strings.	NO
dest	string		The path of the destination file	YES
isRecursive	boolean	TO	TO DO	NO
iskeedisive	boolean	DO	10 00	110
transferCommand	TransferCommand	c	the command to use to perform file transfer.	NO

Environment variables

This command defines no environment variables.

5.1.12 FMS moveFile

Access

This command line can be used by any Vishnu user.

Description

The moveFile command line executes a synchronous move of file.

Example of use

moveFile -c transferCommand machineId sessionKey machineId sessionKey -null listOfStrings dest

Parameters

Parameter	Type	Option	Description	Required
machineId	string		The machine identifier	YES
sessionKey	string		The session identifier	YES
listOfStrings	string		the dynamic list of strings.	NO
dest	string		The path of the destination file	YES
transferCommand	TransferCommand	c	the command to use to perform file transfer.	NO

Environment variables

This command defines no environment variables.

5.1.13 FMS moveAsyncFile

Access

This command line can be used by any Vishnu user.

Description

The moveAsyncFile command line executes an asynchronous move of file.

Example of use

moveAsyncFile -c transferCommand machineId sessionKey machineId sessionKey -null listOfStrings dest

Parameters

Parameter	Type	Option	Description	Required
machineId	string		The machine identifier	YES
sessionKey	string		The session identifier	YES
listOfStrings	string		the dynamic list of strings.	NO
dest	string		The path of the destination file	YES
transferCommand	TransferCommand	c	the command to use to perform file transfer.	NO

Environment variables

This command defines no environment variables.

5.1.14 FMS stopFileTransfer

Access

This command line can be used by any Vishnu user.

Description

The stopFileTransfer command line stops an execution of an set of file transfer.

Example of use

stopFileTransfer $-\mathbf{i}$ transferId $-\mathbf{m}$ fromMachineId $-\mathbf{u}$ userId sessionKey

Parameter	Type	Option	Description	Required
sessionKey	string		The session identifier	YES
transferId	string	i	a given transfer id	NO
fromMachineId	string	m	the machine that is the source of the file transfer	NO
userId	string	u	allows an admin to stop file transfers of a specific user	NO

This command defines no environment variables.

5.1.15 FMS listFilesTransferStatus

Access

This command line can be used by any Vishnu user.

Description

The listFilesTransferStatus command line displays the status of all files transfer submitted by User.

Example of use

listFilesTransferStatus -i transferId -m fromMachineId -u userId -s status

Parameters

Parameter	Type	Option	Description	Required
transferId	string	i	a given transfer id	NO
fromMachineId	string	m	the machine that is the source of the file transfer	NO
userId	string	u	allows the admin to list file transfers initiated by a specific user	NO
status	Status	S	the file transfer status	NO

Environment variables

This command defines no environment variables.

5.1.16 FMS listFilesTransferHistory

Access

This command line can be used by any Vishnu user.

Description

The listFilesTransferHistory command line displays the history of all files transfer submitted by User.

Example of use

listFilesTransferHistory - \mathbf{i} transferId - \mathbf{m} fromMachineId - \mathbf{u} userId - \mathbf{s} status

Parameter	Type	Option	Description	Required
transferId	string	i	a given transfer id	NO
fromMachineId	string	m	the machine that is the source of the file transfer	NO
userId	string	u	allows the admin to list file transfers initiated by a specific user	NO
status	Status	S	the file transfer status	NO

This command defines no environment variables.

5.2 Parameters definitions

Enumeration FMS::FileType Type

Name	Value
BLOCK	0
CHARACTER	1
DIRECTORY	2
SYMBOLICLINK	3
SCKT	4
FIFO	5
REGULAR	6

Enumeration FMS::Status Type

Name	Value
INPROGRESS	0
COMPLETED	1
CANCELLED	2
FAILED	3

Enumeration FMS::TransferCommand Type

Name	Value
SCP	0
RSYNC	1