

OpenLM Server 4.0 API changes

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The ID of default project of group

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New Methods

Name	Request / Response	Description
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GetSupportSummaryReport	BaseRequest BaseResponse	Returns a report includes summary of brokers, servers, routers, ldap sync definitions, services ports, db version and server version.
GetPortsSettings	BaseRequest PortsSettingsResponse	Returns a list of service ports.
GetDenials	DenialsRequest DenialsResponse	Returns a list of license denials (paged).
GetDenialSeries	DenialSeriesRequest DenialsResponse	Returns a list of denials related to a specific series.
GetDenialsChart	DenialChartRequest DenialsChartResponse	Returns denials data fits to denials chart.
GetLicensesActivityByGroup	LicensesActivityRequest LicensesActivityByGroupResponse	Returns license activity grouped by: User, Feature, Server, Vendor Group, Project, Workstation
GetLicensesActivityGroupColumns	BaseRequest LicensesActivityGroupColumnsResponse	Returns a list of columns that can be grouped by in license activity report.
GetLicensesTotalUsageTime	LicensesActivityRequest LicensesTotalUsageTimeResponse	Returns license activity total usage time.
GetProjectsList	ProjectsListRequest ProjectsListResponse	Returns a list of projects.
GetUsers	UsersForPageRequest UsersResponse	Returns a list of users.

GetUserDetails	UserDetailsRequest UserDetailsResponse	Returns user's details such as: Username, FirstName, LastName, Department, Email, Enabled, Projects, Groups and etc.
GetGroupsList	GroupsListRequest GroupsListResponse	Returns list of groups.
GetGroupDetails	GroupDetailsRequest GroupDetailsResponse	Returns group details such as: Name, Enabled, Editable, DefaultProjectID and parent groups.
GetGroupTotalUsers	GroupTotalUsersRequest UsersResponse	Returns all users of group and of child groups.
ApproveLicenseServer	ApproveLicenseServerRequest BaseResponse	Approves LM server to be added to servers configuration.
IgnoreLicenseServer	IgnoreLicenseServerRequest BaseResponse	Ignores LM server to be added to servers configuration.
GetUniqueUsersWorkStationsPerVendor	GetUniqueUsersWorkStationsPerVendorRequest UniqueUsersWorkStationsPerVendorResponse	Returns a list of users and workstations per vendor.

New Classes

PortsSettingsResponse

Property	Type	Description
AgentListenerPort	Int32	The port of agent listener
AgentListenerPortUseSSL	Boolean	Whether to use SSL in agent listener

UIListenerPort	Int32	The port of UI listener (the XML API for UI requests)
UIListenerPortUseSSL	Boolean	Whether to use SSL in UI listener
BrokerListenerPort	Int32	The port of broker listener
BrokerListenerPortUseSSL	Boolean	Whether to use SSL in broker listener
AdminAPIServicePort	Int32	The port of Admin API SOAP service
AdminAPIServicePortUseSSL	Boolean	Whether to use SSL in Admin API service
RouterServicePort	Int32	The port of Router API SOAP service
RouterServicePortUseSSL	Boolean	Whether to use SSL in Router API service

DenialsRequest

Property	Type	Description
StartTime	SlimDateTime	Start time of denial time
EndTime	SlimDateTime	End time of denial time
ServerName	String	The name of LM server
Vendor	String	The vendor
UserNames	String[]	A list of user names
Workstations	String[]	A list of workstation
Features	FeatureVendorServer []	A list of features
SearchByError	String	An error text to search
GetTrueDenialsOnly	Boolean	Whether to return true denials only
LicenseTypes	LicenseTypes []	A list of license types
AdditionalKey	String[]	A list of additional keys
GroupIDS	Int32[]	A list of group IDs
DenialCategories	DenialCategory []	A list of denial categories (types)

DenialsResponse

Property	Type	Description
Denials	Denial []	A list of denials (pagged)
TotalNumOfDenials	Int64	A total number of denials.

DenialSeriesRequest

Property	Type	Description
ID	Int32	The ID of denial series

DenialChartRequest

Property	Type	Description
StartTime	SlimDateTime	Start time of denial time
EndTime	SlimDateTime	End time of denial time
ServerName	String	The name of LM server
Vendor	String	The vendor
UserNames	String[]	A list of user names
Workstations	String[]	A list of workstation
Features	FeatureVendorServer []	A list of features
GroupBy	String	Group by column: User, Group, Server, Vendor, Feature, Hour, Day, Week, Month, Workstation
GetTrueDenialsOnly	Boolean	Whether to return true denials only
SearchByError	String	An error text to search
DenialCategories	DenialCategory []	A list of denial categories (types)
LicenseTypes	LicenseTypes []	A list of license types
AdditionalKey	String[]	A list of additional keys

GroupIDS	Int32[]	A list of group IDs
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DenialsChartResponse

Property	Type	Description
Points	KeyValuePair<String, Int64>[]	A list of points pairs (group by value, deinals count)

LicensesActivityByGroupResponse

Property	Type	Description
TotalNumOfLicensesActivities	Int64	A total number of license activities by group
LicensesActivities	LicenseActivityByGroupResponse []	A list of license activities by group (paged)

LicenseActivityByGroupResponse

Property	Type	Description
GroupByField	String	Group by field value
UsageTime	Double	License Usage time in hours
FilterUsageTime	Double	License Usage time w\in filter period in hours
TokenUsageTime	Double	Token Usage time in hours
TokenFilterUsageTime	Double	Token Usage time w\in filter period in hours

LicensesActivityGroupColumnsResponse

Property	Type	Description
Columns	String[]	A list of group by column names

LicensesTotalUsageTimeResponse

Property	Type	Description
UsageTime	Double	Total License Usage time in hours
FilterUsageTime	Double	Total License Usage time w\in filter period in hours
TokenUsageTime	Double	Total Token Usage time in hours
TokenFilterUsageTime	Double	Total Token Usage time w\in filter period in hours

ProjectsListRequest

Property	Type	Description
ProjectIDs	Int32[]	A list of project IDs
ShowDisabled	Boolean	Whether to return disabled projects
ProjectName	String	A name of project
Priority	Nullable< ProjectPriority >	A priority of project: Low, Medium, High
CreationSource	Nullable< ProjectSource >	Project's creation source: Agent, EasyAdmin
StartTime	SlimDateTime	The start time of project
EndTime	SlimDateTime	The end time of project

ProjectsListResponse

Property	Type	Description
Projects	ProjectDisplay []	A list of projects

UsersForPageRequest

Property	Type	Description
ShowDisabled	Boolean	Whether to return disabled users

GroupID	Nullable<Int32>	The ID of group, users assigned to
RoleID	Nullable<Int32>	The ID of role, users assigned to
ProjectID	Nullable<Int32>	The ID of project, users assigned to

UsersResponse

Property	Type	Description
Users	User []	A list of users (paged)
TotalNumOfUsers	Int64	The total number of users

UserDetailsRequest

Property	Type	Description
UserID	Int32	The ID of user
Username	String	The username

UserDetailsResponse

Property	Type	Description
UserBaseDetails	User	A details of user such as: Username, FirstName, LastName Department, Email, Enabled Projects, Groups and etc.
Projects	ProjectDisplay []	A list of projects, the users assigned to
DefaultProject	ProjectDisplay	The default project of user
Groups	GroupVO []	A list of groups, the user belongs to
DefaultGroup	GroupVO	The default group of user

UserDetailsRequest

Property	Type	Description
UserID	Int32	The ID of user
Username	String	The username

GroupsListRequest

Property	Type	Description
ShowDisabled	Booelan	Whether to return disabled group

GroupsListResponse

Property	Type	Description
Groups	GroupVO []	A list of groups

GroupDetailsRequest

Property	Type	Description
GroupID	Int32	The ID of group

GroupDetailsResponse

Property	Type	Description
BaseDetails	GroupVO	Group details such as: Name, Enabled, Editable, DefaultProjectID and parent groups.
ParentGroups	GroupVO []	The parent groups of group

GroupTotalUsersRequest

Property	Type	Description
GroupId	Int32	The ID of group
IncludeDisabled	Boolean	Whether to return disabled users and groups

ApproveLicenseServerRequest

Property	Type	Description
Host	String	A name or IP of host
Port	Int32	A port
ServerDescription	String	A description of LM server

IgnoreLicenseServerRequest

Property	Type	Description
Host	String	A name or IP of host
Port	Int32	A port

GetUniqueUsersWorkStationsPerVendorRequest

Property	Type	Description
StartTimeUTC	DateTime	
EndTimeUTC	Nullable<DateTime>	Start and End times range the users have used licenses in
Vendor	String	A vendor

UniqueUsersWorkStationsPerVendorResponse

Property	Type	Description
UsersAndWorkstationsList	UserWorkstation []	A list of user and workstation pairs

Changed Classes

LicensesActivityRequest

Property	Type	Description
ProjectIDs	Int32[]	Changed from ProjectIDS - A list project IDs
GroupIDs	Int32[]	Changed from GroupIDS - A list of group IDs
GroupBy	String	Added - The column to group by
ConsiderWorkHours	Boolean	Removed (Not supported anymore)

LicenseProcurement

Property	Type	Description
ComponentsInfo	String	Added - A list of package components
IsCloseToExpiration	Boolean	Added - Whether license procurement is expired within 7 days
IsFuture	Boolean	Added - Whether license procurement has future date

AlertRuleDestination

Property	Type	Description
IncludeInvolvedEntities	Nullable<Char>	Changed from IncludeInvolvedUsers - Whether to send alert also to users that were involved in conditions match
Servers	LicenseServerDC[]	Added - A list of LM servers
BrokerCommand	BrokerCommands	Added - Broker command to be run on LM server: Start, Stop, Reread, Restart
CustomTitle	String	Added - A customized subject to be displayed in alert mail.

ProjectDisplay

Property	Type	Description
Enabled	Boolean	Added - Whether project is enabled
StartDate	SlimDateTime	Added
EndDate	SlimDateTime	Added - Start and End dates are dates range of project
CreationSource	ProjectSource	Added - The creation source of project: Agent or Admin
AllocatedTime	Int32	Added - The time allocated for a project
Priority	ProjectPriority	Added - The priority of project: Low, High, Medium
PercentDone	Int32	Added - Percentages of project done
DeletionEnabled	Boolean	Added - Whether the deletion of project should be enabled
AssociatedGroupName	String	Added - The name of group associated to a project.

User

Property	Type	Description
FirstName	String	Added
LastName	String	Added
Department	String	Added
DisplayName	String	Added
Title	String	Added
PhoneNumber	String	Added
Office	String	Added
Description	String	Added

Email	String	Added
Enabled	Boolean	Added - Whether a user is enabled
DefaultGroupName	String	Added - The default group of user
DefaultProjectName	String	Added - The default project of user

Denial

Property	Type	Description
LicenseType	Nullable< LicenseTypes >	Type changed from LicenseTypes - A list of license types
Email	String	Added - The email of denied user
Version	String	Added - The version of denied feature

LicenseUsageReportRequest

Property	Type	Description
Workstations	String[]	Added - A list of workstations

GroupsListRequest

Property	Type	Description
Search	String	Changed from Prefix - The text to search group name

AlertRuleCondition

Property	Type	Description
AlertRuleCondition	Nullable< LogicalOperator >	Type changed from LogicalOperator - The logical operato: And, Or, Not

Common Classes

SlimDateTime

Property	Type	Description
Year	Int32	
Month	Int32	
Day	Int32	
Hour	Int32	
Minute	Int32	
Second	Int32	

FeatureVendorServer

Property	Type	Description
Feature	String	The name of feature
Version	String	Version
Vendor	String	The name of vendor
Server	String	The name of LM server
LicenseType	Nullable< LicenseTypes >	The type of license: Floating, NodeLocked, NamedUser, SingleUse, NamedUserCasual, HostBased Unmanaged, UserNameLocked Token
AdditionalKey	String	The additional key

BaseRequest

Property	Type	Description
BaseInfo	RequestBaseInfo	General request information includes: Session, Paging, User local settings, etc.

RequestBaseInfo

Property	Type	Description
SessionData	SessionRefresh	Session Data
PagingData	PagingData	Paging Data
UserLocalSettings	UserLocalSettings	User localization settings: Date time format, timezone and etc.
IsExport	Boolean	Whether to get exported to csv results
CustomerId	String	Customer's identifier Relevant to SAAS system only.

SessionRefresh

Property	Type	Description
SessionID	String	The ID of session
Refresh	Boolean	Is manual refresh

PagingData

Property	Type	Description
StartRecord	Int32	Number of paging start record
NumOfRecord	Int32	Max result set size
Sort	String[]	Columns by which to sort the results
Search	String	Data to search
SearchColumns	String[]	Columns that will be used for search
Direction	String	Sorting direction ("asc" or "desc")

UserLocalSettings

Property	Type	Description
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TimeFormat	String	For example:: dd/mm/yyyy hh:mm:ss mm/dd/yyyy hh:mm:ss yyyy-mm-dd hh:mm:ss
TimezoneStandardName	String	Timezone standard name, according to System.TimeZoneInfo.Id
DecimalSeparator	String	Decimal separator sign
ThousandsSeparator	String	Thousands separator sign

BaseResponse

Property	Type	Description
SaaSToken	String	An authentication session ID in SaaS mode.
Error	Error	Error data (if error exists)
ExportString	String	The export response (if export requested)
ExportContentType	ExportContentType	The content type of export: Text or URL

Error

Property	Type	Description
Code	Int32	The error code
Message	String	The error message
Parameters	KeyValuePair[]	A list of error parameters

KeyValuePair

Property	Type	Description
Key	String	The key of pair
Value	String	The value of pair

Denial

Property	Type	Description
ID	Int32	The ID of denial
UserName	String	The username of denied user
FirstName	String	The first name of denied user
LastName	String	The last name of denied user
Email	String	The email of denied user
UserGroupName	String	The default group of denied user
WorkstationName	String	The workstation of denied user
DenialTime	SlimDateTime	The time of denial
FeatureName	String	The feature of denied license
LicenseType	Nullable< LicenseTypes >	The license type of denied license
AdditionalKey	String	The additional key of denied license
ServerDescription	String	The name of LM server of denied license
Vendor	String	The vendor of denied license
LMHostName	String	The host name of denied license
Category	DenialCategory	The category of denial
NumOfLicenses	Int32	The number of licenses of denied license
ErrorMsg	String	The error message of denial
Status	Nullable< DenialStatus >	The status of denial: True Denial, False Denial, Duplicate
HasSeries	Boolean	Whether the denial has underlying denial series
Version	String	The version of denied license

ProjectDisplay

Property	Type	Description
Id	Int32	The ID of project
Name	String	The name of project
Enabled	Boolean	Whether project is enabled
StartDate	SlimDateTime	The start date of project
EndDate	SlimDateTime	The end date of project
CreationSource	ProjectSource	The creation source of project: Agent or Admin
AllocatedTime	Int32	The time allocated for a project
Priority	ProjectPriority	The priority of project: Low, High, Medium
PercentDone	Int32	Percentages of project done
DeletionEnabled	Boolean	Whether the deletion of project should be enabled
AssociatedGroupName	String	The name of group associated to a project.

GroupVO

Property	Type	Description
ID	Int32	The ID of group
Name	String	The name of group
Enabled	Boolean	Whether a group is enabled
Editable	Boolean	Whether a group can be edited
DefaultProjectID	Nullable<Int32>	The ID of default project of group

User

Property	Type	Description
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ID	Int32	
Username	String	
FirstName	String	
LastName	String	
Department	String	
DisplayName	String	
Title	String	
PhoneNumber	String	
Office	String	
Description	String	
Email	String	
Enabled	Boolean	Whether a user is enabled
DefaultGroupName	String	The default group name of user
DefaultProjectName	String	The default project name of user

UserWorkstation

Property	Type	Description
UserName	String	The username
Workstation	String	The workstation

LicenseServerDC

Property	Type	Description
ID	Int32	The ID of LM server
Description	String	The description of LM server
LMHostsIDs	Int32[]	A list of LM hosts IDs

LicensesActivityRequest

Property	Type	Description
IncludeCurrentUsage	Boolean	Whether to return current activity
StartTime	SlimDateTime	Start time of license activity
EndTime	SlimDateTime	End time of license activity
ServerName	String	The name of LM server
Vendor	String	The name of vendor
UserIDs	Int32[]	A list of users' IDs
Features	FeatureVendorServer[]	A list of used features
Products	FeatureVendorServer[]	A list of used products
Workstations	String[]	A list of used workstations
LicenseTypes	LicenseTypes[]	A list of used license types
AdditionalKey	String[]	A list of used licenses' additional keys
ProjectIDs	Int32[]	A list of used licenses' projects
GroupIDs	Int32[]	A list of used licenses' groups
GroupBy	String	The column to group by in LicenseActivityByGroup request

Enumeration Classes

BrokerCommands

Name	Value	Description
start	3	
stop	4	
reread	5	
restart	16	

ProjectSource

Name	Value	Description
Admin	0	EasyAdmin
Agent	1	

ProjectPriority

Name	Value	Description
Low	0	
Medium	1	
High	2	

LicenseTypes

Name	Value	Description
Floating	0	
NodeLocked	1	
NamedUser	2	
SingleUse	3	
NamedUserCasual	4	
HostBased	5	
Unmanaged	6	
UserNameLocked	7	
Token	8	

DenialCategory

Name	Value	Description
Other	0	
UnspecifiedReason	1	
LimitReached	2	
LicenseServerError	3	
RestrictionOrAuthorization	4	
ProblemWithLicense	5	

LogicalOperator

Name	Value	Description
And	1	
Or	2	
Not	3	

DenialStatus

Name	Value	Description
Unknown	0	
TrueDenial	1	Denial of license that have not been consumed from other server or pool within 1 minute from denial's actual date
FalseDenial	2	Denial of license that finally consumed from other server or pool within 1 minute from denial's actual date
Duplicate	3	Duplicate of another (false or true) denial belongs to same denial series that denied within 1 minute from denial's actual date

ExportContentType

Name	Value	Description
Text	0	Export Text

Link	1	Export File URL
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Removed Methods

Name	Description
GetGroupsNames	This method was replaced by GetGroupsList