

# **Axon.ivy 7.2**

## **Portal Connector Documentation**

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# Axon.ivy 7.2: Portal Connector Documentation

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# Chapter 1. Installation

## Portal Connector is deployed to application SYSTEM



### Important

Portal Connector is deployed to application SYSTEM by default. Do not deploy Portal Connector to other applications.

## Re-deploy Portal Connector (Work only with engine version 7.0.3 and older)



### Important

Portal Connector is deployed to SYSTEM application. Therefore, you cannot use AdminUI to re-deploy it. If you customize Portal Connector or use another Portal Connector, you can re-deploy by this way.

Setting rescanning of system application.

- In YOUR\_ENGINE\_FOLDER/bin make copy of Example.ilc file.
- Rename it to AxonIvyEngine.ilc or AxonIvyEngineService.ilc if engine running as service.
- Find line `#ivy.vm.additional.options=` and replace it by `ivy.vm.additional.options=-Dch.ivyteam.ivy.engine.rescanApplications=true`.
- Restart ivy engine.

With this new parameter engine will always check folder with system applications.

```
98 #
99 #ivy.java.main.method=main
100 #
101 #
102 # Additional vm arguments.
103 #
104 ivy.vm.additional.options=-Dch.ivyteam.ivy.engine.rescanApplications=true
105 #
106 #
107 # Garbage collector arguments:
108 # Example configuration (for more information)
109 # * GC optimized for JSF
110 #ivy.garbage.collector.options=-XX:+UseConcMarkSweepGC
111 # * With an empty configuration the GC strategy is the default
112 #
113 #ivy.garbage.collector.options=-XX:+UseConcMarkSweepGC
114 #
115 #
116 # To enable access to the java management extension API
```

Update Portal Connector of system application.

- On engine extract all files from `PortalConnector.iar` to `YOUR_ENGINE_FOLDER/system/applications/System/PortalConnector/1/`.
- Restart ivy engine.

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# Chapter 2. Service documentation

## Services

### Absence services

Web service name	Input parameters	Output parameters	Description
getAbsences	userName (String) applicationNames (List of String)	absences (List of IvyAbsence) errors (List of WSEExceptions)	Get all absences for user by input list of applications.
getAbsencesOfAllUsers	applicationNames (List of String)	absences (List of IvyAbsence) errors (List of WSEExceptions)	Get all absences of all users by in input list of applications.
setAbsences	userName (String) applicationNames (List of String) absencesToUpdate (List of IvyAbsences)	errors (List of WSEExceptions)	Delete all absences of user in input list of applications Save/update input list of IvyAbsence for user.

Table 2.1. Absence services

### Application services

Web service name	Input parameters	Output parameters	Description
getAllApplications		applications (List of IvyApplication) errors (List of WSEExceptions)	Get all applications.
getApplicationsByAppNames	applicationNames (List of String)	applications (List of IvyApplication) errors (List of WSEExceptions)	Get all applications based on application names.

Table 2.2. Application services

### Case services

Web service name	Input parameters	Output parameters	Description
countCasesByCriteria	caseSearchCriteria (CaseSearchCriteria)	caseCount (Long) errors (List of WSEExceptions)	Number of cases.
createNote	id (Long) user (String) message (String)	note (IvyNote) errors (List of WSEExceptions)	Creates new note for case.
destroyCase	caseId (Integer)	errors (List of WSEExceptions)	Destroy case.
downloadDocument	caseId (Long) documentId (Long)	documentContent (Binary) errors (List of WSEExceptions)	Download document of case.

Web service name	Input parameters	Output parameters	Description
findCase	id (Long)	ivyCase (IvyCase) errors (List of WSEExceptions)	Search case by caseId through all applications.
findCasesByCriteria	startIndex (Integer) count (Integer) caseSearchCriteria (CaseSearchCriteria)	ivyCase (List of IvyCase) errors (List of WSEExceptions)	Find case by criteria.
findCaseCategoriesByCriteria	caseSearchCriteria (CaseSearchCriteria) language (String)	categories (List of CategoryData) errors (List of WSEExceptions)	Find category of cases that given user can work on.
findDocuments	id (Long)	documents (List of IvyDocument) errors (List of WSEExceptions)	Find document of case.
findNotes	id (Long) excludeSystemNotes (Boolean)	notes (List of IvyNotes) errors (List of WSEExceptions)	Search for note by caseId.
getAdditionalProperties	id (Long)	additionalProperties (List of IvyAdditionalProperty) errors (List of WSEExceptions)	Get additional properties of case.
removeDocument	caseId (Long) documentId (Long)	errors (List of WSEExceptions)	Remove document of case.
setAdditionalProperties	caseId (Long) additionalProperties (List of IvyAdditionalProperty)	errors (List of WSEExceptions)	Set additional properties for case.
uploadDocument	caseId (Long) documentName (String) documentContent (Binary)	document (IvyDocument) errors (List of WSEExceptions)	Upload document to case.
saveCase	ivyCase (IvyCase)	errors (List of WSEExceptions)	Save Ivy Case.
analyzeCaseStateStatistic	caseSearchCriteria (CaseSearchCriteria)	caseStateStatistic (CaseStateStatistic) errors (List of WSEExceptions)	Get statistic data by case state.
analyzeElapsedTimeByCaseCategories	caseSearchCriteria (CaseSearchCriteria)	elapsedTimeStatistic (ElapsedTimeStatistic) errors (List of WSEExceptions)	Get statistic data by case category's elapsed time.

Table 2.3. Case services

## IsAlive services

Web service name	Input parameters	Output parameters	Description
isAlive	apps (List of strings)	applicationList (List of IvyApplication)	Checking if connector is "alive" and the applications

Web service name	Input parameters	Output parameters	Description
		isAlive (Boolean) errors (List of WSEExceptions)	are running. If apps list is empty, it gives back all applications. If not, it searches only for apps in list.

Table 2.4. IsAlive services

## Library services

Web service name	Input parameters	Output parameters	Description
getLibraries	apps (List of strings)	libraries (List of IvyLibraries) errors (List of WSEExceptions)	Get all projects name/version except Portal projects.
getLibrary	libraryId (String) appName (String)	library (IvyLibraries) errors (List of WSEExceptions)	Get projects name/version by libraryId and application name.

Table 2.5. Library services

## Process start services

Web service name	Input parameters	Output parameters	Description
findProcessesStartsByCriteria	isUrlBuiltFromSystemProperties (Boolean) language (String) processSearchCriteria (ProcessSearchCriteria)	processStarts (List of IvyProcessStarts) errors (List of WSEExceptions)	Search for ivy process start base on languages, criteria.

Table 2.6. Process start services

## Security services

Web service name	Input parameters	Output parameters	Description
findAllUsers	apps (List of String)	users (List of IvySecurityMembers) errors (List of WSEExceptions)	Search for all users on list applications.
findAllRoles	apps (List of String)	roles (List of IvyRole) errors (List of WSEExceptions)	Search for all roles on list applications.
findSecurityMembersToDelegate	taskId (Long)	users (List of IvyUser) roles (List of IvyRole) errors (List of WSEExceptions)	Find list of users to delegate task.
findUserByRoleId	app (String) id (Long)	users (List of IvyUser) errors (List of WSEExceptions)	Search for all users that have role with id equals to input id.

Table 2.7. Security services



## Server services

Web service name	Input parameters	Output parameters	Description
getExternalHost		externalHost (String) errors (List of WSEExceptions)	Get the system property "WebServer.ExternalHostName" of the engine.

Table 2.8. Server services

## Sidestep services

Web service name	Input parameters	Output parameters	Description
findSideStepsByCriteria	isUrlBuiltFromSystemProperties (Boolean) sideStepSearchCriteria (SideStepSearchCriteria) language (String)	sideSteps (List of IvySideStep) errors (List of WSEExceptions)	Get sidesteps by criteria.

Table 2.9. Sidestep services

## Supported language services

Web service name	Input parameters	Output parameters	Description
getSupportedLanguages	applicationName (String)	supportedLanguages (List of String) errors (List of WSEExceptions)	Get all supported languages of application.

Table 2.10. Supported language services

## Task Services

Web service name	Input parameters	Output parameters	Description
analyzeExpiryStatistic	jsonQuery (String) userName (String) apps (List of String)	expiryStatistic (ExpiryStatistic) errors (List of WSEExceptions)	Get statistic data by task expiry date.
analyzePriorityStatistic	jsonQuery (String) userName (String) apps (List of String)	priorityStatistic (PriorityStatistic) errors (List of WSEExceptions)	Get statistic data by task priority.
canUserResumeTask	id (Long) userName (String)	workerUserName (String) canUserResumeTask (String) errors (List of WSEExceptions)	Detect user can resume task or not.
createTaskNote	user (String) message (String) id (Long)	ivyNote (IvyNote) errors (List of WSEExceptions)	Create task note for user.

Web service name	Input parameters	Output parameters	Description
countTasksByCriteria	taskSearchCriteria (TaskSearchCriteria)	taskCount (Long) errors (List of WSEExceptions)	Count number of tasks by criteria.
delegateTask	isUrlBuiltFromSystemProperties (Boolean) id (Long) ivySecurityMember (IvySecurityMember)	ivyTask (IvyTask) errors (List of WSEExceptions)	Delegate task found by taskId to ivySecurityMember.
findTasksByCriteria	isUrlBuiltFromSystemProperties (Boolean) startIndex (Integer) count (Integer) taskSearchCriteria (TaskSearchCriteria)	ivyTask (List of IvyTask) allIvyTasks (List of IvyTask) errors (List of WSEExceptions)	Find tasks by criteria.
findTaskNotes	id (Long)	ivyNote (IvyNote) errors (List of WSEExceptions)	Find task note by id.
findCategories	jsonQuery (String) userName (String) apps (List of String) language (String)	categories (List of CategoryData) errors (List of WSEExceptions)	Find category of tasks that given user can work on.
findPersonalTaskCategories	jsonQuery (String) userName (String) apps (List of String) language (String)	categories (List of CategoryData) errors (List of WSEExceptions)	Find category of tasks those are responsible by given user.
findGroupTaskCategories	jsonQuery (String) userName (String) apps (List of String) language (String)	categories (List of CategoryData) errors (List of WSEExceptions)	Find category of tasks those are responsible by role and given use has this role.
parkTask	isUrlBuiltFromSystemProperties (Boolean) id (Long) user (String)	ivyTask (IvyTask) errors (List of WSEExceptions)	Park found users task by taskId.
resetTask	currentUserName (String) isUrlBuiltFromSystemProperties (Boolean) id (Long)	ivyTask (IvyTask) errors (List of WSEExceptions)	Resets the given task.

Web service name	Input parameters	Output parameters	Description
save	task (IvyTask)	errors (List of WSEExceptions)	Save ivy task.

Table 2.11. Task services

## User settings services

Web service name	Input parameters	Output parameters	Description
findUserSetting	user (String) appName (String)	userSetting (IvyUserSetting) errors (List of WSEExceptions)	Search for setting for user by username in application.
saveUserSetting	user (String) userSetting (IvyUserSetting) appName (String)	errors (List of WSEExceptions)	Saving input IvyUserSetting for user by username in application.
getEMailSettings	applications (List of String) user (String)	settings (List of IvyEmailSetting) errors (List of WSEExceptions)	Get all settings for all applications contained in input applications parameter.
setEMailSettings	settings (List of IvyEmailSetting) user (String)	errors (List of WSEExceptions)	Save input IvyEmailSetting for user settings in application.
getSubstitutes	applications (List of String) user (String)	substitutes (List of IvySubstitute) userApplications (List of IvyUser) errors (List of WSEExceptions)	Get all substitutes for user in all input list of applications, and all users in applications.
setSubstitutes	username (String) substitutes (List of IvySubstitute)	errors (List of WSEExceptions)	Save/update input list of IvySubstitute for user.
getLanguagesSettings	serverId (Long) user (String) apps (List of String)	settings (List of IvyLanguageSetting) errors (List of WSEExceptions)	Get Languages settings for the passed user and applications.
setLanguagesSettings	user (String) settings (List of IvyLanguageSetting)	errors (List of WSEExceptions)	Save/update languages settings for the passed user.

Table 2.12. User settings services

## Web start (Process start and case map) services

Web service name	Input parameters	Output parameters	Description
findWebStartablesByCriteria	isUrlBuiltFromSystemProperties (Boolean)	webStartables (List of IvyWebStartables)	Search for ivy web start base on languages, criteria.

Web service name	Input parameters	Output parameters	Description
	language (String) webStartableSearchCriteria (WebStartableSearchCriteria)	errors (List of WSEExceptions)	

Table 2.13. Web start (Process start and case map) services

## Service objects

### Absence

Name	Type
absences	List<IvyAbsence>
userFullName	String
userName	String

Table 2.14. Absence

### IvyAbsence

Name	Type
description	String
appName	String
startDateInclusive	Date
stopDateInclusive	Date

Table 2.15. IvyAbsence

### IvyAdditionalProperty

Name	Type
key	String
value	String

Table 2.16. IvyAdditionalProperty

### IvyApplication

Name	Type
id	Long
isActive	Boolean
name	String

Table 2.17. IvyApplication

# IvyCase

Name	Type
-//-	All parameters from ICase
applicationName	String
businessCorrespondentId	Integer
businessCreatorUser	String
businessMainContactDocumentDatabaseCode	String
businessMainContactFolderId	String
businessMainContactId	Integer
businessMainContactName	String
businessContactType	String
businessMilestoneTimestamp	Date
businessObjectCode	String
businessObjectDocumentDatabaseCode	String
businessObjectFolderId	String
businessObjectName	String
businessPriority	String
businessStartTimestamp	Date
canChangeDescription	Boolean
canChangeName	Boolean
canDestroy	Boolean
categoryName	String
categoryPath	String
creatorFullName	String
creatorUserName	String
customDecimalFiled1	Float
customDecimalFiled2	Float
customDecimalFiled3	Float
customDecimalFiled4	Float
customDecimalFiled5	Float
customTimestampField1	Date
customTimestampField2	Date
customTimestampField3	Date
customTimestampField4	Date
customTimestampField5	Date
customVarCharField1	String
customVarCharField2	String
customVarCharField3	String
customVarCharField4	String
customVarCharField5	String
description	String

Name	Type
endTimeStamp	Date
id	Long
ivyNotes	List<IvyNote>
name	String
priority	String
processCategoryCode	String
processCategoryName	String
processCode	String
processName	String
processModelName	String
processModelVersionNumber	Integer
serverId	Long
startTimestamp	Date
state	String
subTypeCode	String
subTypeName	String
typeCode	String
typeName	String

**Table 2.18. IvyCase**

## IvyDocument

Name	Type
contentType	String
id	Long
name	String
size	Long

**Table 2.19. IvyDocument**

## IvyEmailSetting

Name	Type
appName	String
customMailEnabled	Boolean
emailNotificationDisabled	Boolean
emailSendDailyTaskSummaryOnMonday	Boolean
emailSendDailyTaskSummaryOnTuesday	Boolean
emailSendDailyTaskSummaryOnWednesday	Boolean
emailSendDailyTaskSummaryOnThursday	Boolean
emailSendDailyTaskSummaryOnFriday	Boolean
emailSendDailyTaskSummaryOnSaturday	Boolean

Name	Type
emailSendDailyTaskSummaryOnSunday	Boolean
emailSendOnNewWorkTasks	Boolean

**Table 2.20. IvyEmailSetting**

## IvyLanguageSetting

Name	Type
appName	String
supportedLanguages	List<String>
userLanguage	String

**Table 2.21. IvyLanguageSetting**

## IvyLibrarySetting

Name	Type
id	String
projectName	String
projectVersion	String
application	String

**Table 2.22. IvyLibrarySetting**

## IvyNote

Name	Type
creationTimestamp	Date
creatorFullName	String
creatorUserName	String
id	Long
message	String

**Table 2.23. IvyNote**

## IvyProcessStart

Name	Type
-//-	All parameters from IProcessStart
applicationName	String
description	String
fullRequestStart	String
fullRequestPathWithDocId	String
fullUserFriendlyRequestPath	String
id	Long

Name	Type
name	String
processElementId	String
serverAddress	String
startLink	String

**Table 2.24. IvyProcessStart**

## IvyRole

Name	Type
application	String
displayName	String
id	Long
isUser	Boolean
memberName	String

**Table 2.25. IvyRole**

## IvySecurityMember

Name	Type
application	String
displayName	String
id	Long
memberName	String

**Table 2.26. IvySecurityMember**

## IvySideStep

Name	Type
name	String
startRequestUri	String

**Table 2.27. IvySideStep**

## IvySubstitute

Name	Type
appName	String
description	String
forThisRole	String
mySubstitute	String
roleDisplayName	String

**Table 2.28. IvySubstitute**



## IvyTask

Name	Type
-//-	All parameters from ITask
activatorFullName	String
activatorName	String
applicationName	String
businessCreatorUser	String
businessMilestoneTimestamp	Date
canChangeDescription	Boolean
canChangeName	Boolean
canChangePriority	Boolean
canDelegate	Boolean
canPark	Boolean
canReset	Boolean
canResume	Boolean
caseBusinessCorrespondentId	Integer
caseBusinessCreatorUser	String
caseBusinessMainContactDocumentDatabaseCode	String
caseBusinessMainContactFolderId	String
caseBusinessMainContactId	Integer
caseBusinessMainContactName	String
caseBusinessMainContactType	String
caseBusinessMilestoneTimestamp	Date
caseBusinessObjectCode	String
caseBusinessObjectDocumentDatabaseCode	String
caseBusinessObjectFolderId	String
caseBusinessObjectName	String
caseBusinessPriority	String
caseBusinessStartTimestamp	Date
caseBusinessStartTimestamp	String
caseCategoryName	String
caseCategoryPath	String
caseCustomDecimalField1	Float
caseCustomDecimalField2	Float
caseCustomDecimalField3	Float
caseCustomDecimalField4	Float
caseCustomDecimalField5	Float
caseCustomTimestampField1	Date
caseCustomTimestampField2	Date
caseCustomTimestampField3	Date
caseCustomTimestampField4	Date

Name	Type
caseCustomTimestampField5	Date
caseCustomVarCharField1	String
caseCustomVarCharField2	String
caseCustomVarCharField3	String
caseCustomVarCharField4	String
caseCustomVarCharField5	String
caseDescription	String
caseEndTimestamp	Date
caseId	Long
caseName	String
casePriority	String
caseProcessCategoryCode	String
caseProcessCategoryName	String
caseProcessCode	String
caseProcessName	String
caseShowDetailLink	String
caseStartTimestamp	Date
caseState	String
caseSubTypeCode	String
caseSubTypeName	String
caseTypeCode	String
caseTypeName	String
caseCategoryName	String
caseCategoryPath	String
customDecimalField1	Float
customDecimalField2	Float
customDecimalField3	Float
customDecimalField4	Float
customDecimalField5	Float
customTimestampField1	Date
customTimestampField2	Date
customTimestampField3	Date
customTimestampField4	Date
customTimestampField5	Date
customVarCharField1	String
customVarCharField2	String
customVarCharField3	String
customVarCharField4	String
customVarCharField5	String
delayTimestamp	Date
description	String

Name	Type
displayDescriptionTemplate	String
displayNameTemplate	String
expireActivatorName	String
expireActivatorFullName	String
expirePriority	String
expireTimestamp	Date
fullRequestPath	String
id	Long
isExpired	Boolean
ivyNotes	List<IvyNote>
kindCode	String
kindName	String
name	String
originalActivatorName	String
originalActivatorFullName	String
originalPriority	String
priority	String
serverId	Long
startTimestamp	Date
state	String
workerFullName	String
workerUserName	String

**Table 2.29. IvyTask**

## IvyUser

Name	Type
application	String
displayName	String
id	Long
memberName	String

**Table 2.30. IvyUser**

## IvyUserSetting

Name	Type
emailNotificationDisabled	Boolean
emailSendDailyTaskSummaryOnMonday	Boolean
emailSendDailyTaskSummaryOnTuesday	Boolean
emailSendDailyTaskSummaryOnWednesday	Boolean
emailSendDailyTaskSummaryOnThursday	Boolean

Name	Type
emailSendDailyTaskSummaryOnFriday	Boolean
emailSendDailyTaskSummaryOnSaturday	Boolean
emailSendDailyTaskSummaryOnSunday	Boolean
emailSendOnNewWorkTasks	Boolean
language	String
useUserEmailSettings	Boolean

Table 2.31. IvyUserSetting

## IvyWebStartable

Name	Type
name	String
displayName	String
description	String
link	String
activatorDisplayName	String
activatorMemberName	String

Table 2.32. IvyWebStartable

## NumberOfExpiryTasks

Name	Type
errors	List<WSEException>
numberOfExpiryTasks	Long

Table 2.33. NumberOfExpiryTasks

## PriorityStatistic

Name	Type
exception	Long
high	Long
low	Long
normal	Long

Table 2.34. PriorityStatistic

## ExpiryStatistic

Name	Type
result	String

Table 2.35. ExpiryStatistic

## CaseStateStatistic

Name	Type
created	Long
running	Long
done	Long
failed	Long

Table 2.36. CaseStateStatistic

## ElapsedTimeStatistic

Name	Type
result	String

Table 2.37. ElapsedTimeStatistic

## WSException

Name	Type
helpTextData	List<Object>
userTextData	List<Object>
errorCode	Integer
errorDateTime	DateTime
errorType	WSErrorType
exception	Exception
exceptionAvailable	Boolean
helpText	String
server	String
textInitialized	Boolean
userText	String

Table 2.38. WSException

## WSErrorType

- INFO
- WARNING
- ERROR

## Error codes

Error code	Error description (user text)
10000	An error occurred while finding case by id
10001	An error occurred while searching cases for user
10002	An error occurred while searching cases for user by filter
10003	An error occurred while searching notes for case

<b>Error code</b>	<b>Error description (user text)</b>
10004	An error occurred while creating note for case
10005	An error occurred while searching tasks for case
10006	An error occurred while checking if application/s is/are active
10007	An error occurred while searching process starts for applications
10008	An error occurred while searching applications process starts for user
10009	An error occurred while roles searching
10010	An error occurred while users searching
10011	An error occurred while roles searching for user by role id
10012	An error occurred while creating note for task
10013	An error occurred while searching notes for task
10014	An error occurred while task delegating
10015	An error occurred while searching task by id
10016	An error occurred while searching tasks for user by filter
10017	An error occurred while task parking
10018	An error occurred while searching setting for user
10019	An error occurred while saving user setting
10020	An error occurred while searching setting for user in application
10021	An error occurred while saving setting for user in application
10022	Case: ID {CASE_ID} not found
10023	Application(s) {LIST_OF_APPLICATIONS} is/are not active
10024	Empty, error is not used
10025	No case found for user {USERNAME}
10026	No application specified.
10027	Task ID "{TASK_ID}" not found
10028	Fault error: Unmarshalling Error: For input: "{INPUT_STRING}"
10029	User "{USER_NAME}" not found
10030	Application(s) "{LIST_OF_APPLICATIONS}" not found
10031	Task id {TASK_ID} not found for user {USER_NAME}
10032	An error occurred while getting settings for all applications.
10033	An error occurred while saving email settings.
10034	An error occurred while getting absences for user in applications.
10035	An error occurred while saving absences.
10036	An error occurred while getting substitutes for user in applications.
10037	An error occurred while saving substitutes.
10038	Role "{ROLE_NAME}" not found for user
10039	No username specified.

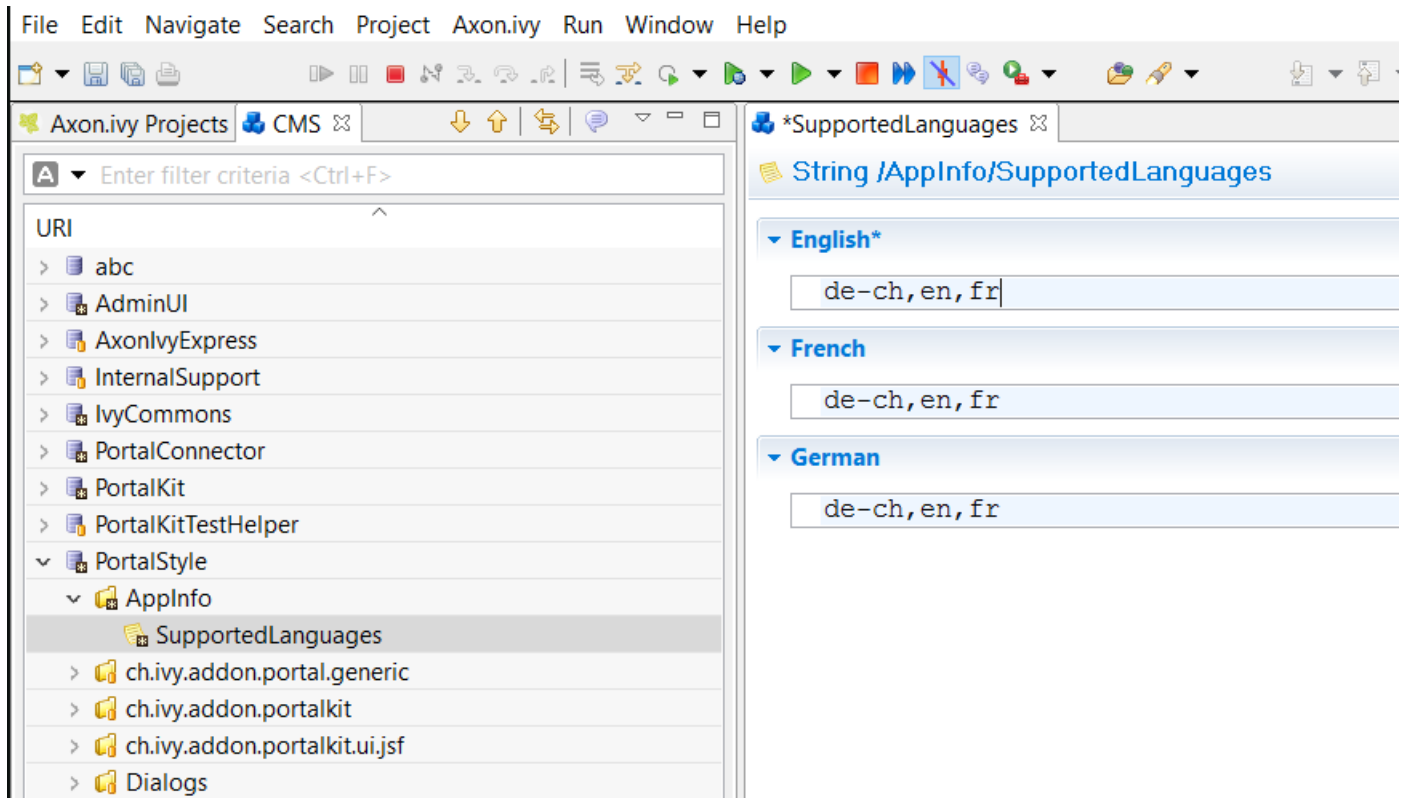
Error code	Error description (user text)
10040	An error occurred while get languages settings, key {CMS_LANG_KEY} not found on {PROCESS_MODEL_VERSION}
10041	Language {LANGUAGE} not supported
10042	Please change the filename {FILE_NAME} because it exists.
10043	Unknown error.
10044	An error occurred while getting tasks of the case has ID {ID}.
10045	An error occurred while saving task.
10046	An error occurred while searching side steps of the case for user.
10047	An error occurred while changing password.
10048	Can not set language for email notification language.
10049	An error occurred while analyzing statistic data by task priority.
10050	An error occurred while analyzing statistic data by task expiry date.
10051	An error occurred while analyzing statistic data by case state.
10052	An error occurred while analyzing statistic data by case category's elapsed time.
10053	An error occurred while searching for case categories.

Table 2.39. Error codes

## Application requirements

To have multi languages in portal, key `/AppInfo/SupportedLanguages` must exist in CMS of Portal Style. This entry contains list of all languages supported by this application, separated by comma.

- Must not contain spaces.
- Same as display name of locale.
- Separated by comma.
- Process Model version have this CMS must active.





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# Chapter 3. Release notes

## Project description

Portal connector provide web service to retrieve data for Portal. Portal connector works with ivy engine from 6.0 Sântis. E.g. 6.2.

In this release, IsAlive web service is **deprecated** and **replaced** by ApplicationService.

## Features

All Portal connector web services are secured now with authentication.

Portal connector provide service to get data about:

- Absence
- Application
- Case
- Process start
- Security
- Supported language
- Task
- User setting
- Web start (Process start and case map)

## Changes

### Changes in 7.2

- Introduced the LibraryService WS to get the project version

### Changes in 7.0

- Param: JsonQuery is added to CaseService for CaseQuery customization

### Changes in 6.6

- Param: JsonQuery is added to TaskService for TaskQuery customization

### Changes in 6.5

- URL detection on single server: use request URL to generate links for processes, tasks

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# Chapter 4. Migration notes

## Migration notes

`Portal connector` is now integrated to Ivy engine as system application. No installation or conversion of `Portal connector 5.0` is needed.

The `Portal connector` works only with the same Ivy Engine with it was bundled with.

Open url: `your engine/ivy/info/index.jsp?showSystemApp=true` to check for available web services.

### Migrate 7.0 to 7.1

The language parameter is added in the `findCaseCategoryByCriteria` in `CaseService`.

### Migrate 6.x to 7.0

Property: `DisableCustomMails` is replaced with new property `useCustomMails` in `UserSettingService`.

If you are using `DisableCustomMails`, please change to use property `useCustomMails` and update your web service to adapt this change.

### Migrate 6.5 to 6.6

Params: `jsonQuery` is added to `TaskService` (`findCategories`, `findPersonalCategories`, `findGroupCategories`, `analyzePriorityStatistic`, `analyzeExpiryStatistic`)

### Migrate 6.x (x < 5) ... 6.5

Params: `serverId`, `serverUrl`, `isNoConfigurationServer` are removed, `isUrlBuiltFromSystemProperties` is added in `ProcessStartService` (`findProcessesStartsByCriteria`) and `TaskService` (`findTasksByCriteria`, `delegateTask`, `parkTask`, `resetTask`)

Param: `serverId` is removed in `CaseService` (`findProcessesStartsByCriteria`)