LifeTime SDK

Use the LifeTime SDK to develop your own plug-ins for LifeTime, thus extending LifeTime functionality. The LifeTimeSDK contains the base layout components and APIs used to develop a LifeTime plug-in.

To start developing your LifeTime plug-in, you need to do the following:

1. Install the LifeTime SDK on a development environment.
2. Export LifeTime data to the environment where you will be developing the plug-in.
3. Develop the plug-in using the development environment: once the LifeTimeSDK is installed on an environment, a new button is made available, to create an application with the necessary references for the LifeTimeSDK.
4. Deploy the new plug-in to the environment running LifeTime.

To learn more on how to develop your LifeTime plug-in, access the http://<LifeTime_environment>/LifeTimeSDK screen on your infrastructure.

Summary

<table>
<thead>
<tr>
<th>Widget</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Internal_Layout_LifeTime</td>
<td>The LifeTime layout.</td>
</tr>
<tr>
<td>Internal_Layout_Popup</td>
<td>The Popup Layout to be used in a LifeTime plugin. Pressing the popup buttons triggers the OnNotify action containing a LayoutPopupButtonClicked identifier.</td>
</tr>
<tr>
<td>Layout_LifeTimeSDK</td>
<td>The Web Block to be used as the base layout for a LifeTime plugin. The layout allows you to easily create screens with the look and feel of LifeTime, since it contains LifeTime header and footer. The layout also contains a stamp for you to customize with the developer or company name, when you register the plugin.</td>
</tr>
<tr>
<td>Action</td>
<td>Description</td>
</tr>
<tr>
<td>---------------------------------------------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Application_Get</td>
<td>Returns the information of an application in an environment. If the environment is not specified, information of the application across all infrastructure is returned.</td>
</tr>
<tr>
<td>Application_List</td>
<td>Returns a list of the applications in the specified environment that are visible within LifeTime, with their information, such as name, description, url. If no environment is specified, information of all visible applications across all environments is returned.</td>
</tr>
<tr>
<td>ApplicationVersion_Get</td>
<td>Returns information of an application on a specified date.</td>
</tr>
<tr>
<td>ApplicationVersion_List</td>
<td>Returns the information of all tagged application versions for the specified application.</td>
</tr>
<tr>
<td>Deployment_Get</td>
<td>Returns information of the specified deployment.</td>
</tr>
<tr>
<td>Deployment_List</td>
<td>Returns information of all deployments made between two environments.</td>
</tr>
<tr>
<td>Environment_Get</td>
<td>Returns the information of an environment, such as name, version of the Platform, Application Server.</td>
</tr>
<tr>
<td>Environment_List</td>
<td>Returns a list of environments with their information, such as name, version of the Platform, Application Server.</td>
</tr>
<tr>
<td>GetUserSessionToken</td>
<td>Returns an authentication token that is valid for 5 minutes, for the session user.</td>
</tr>
<tr>
<td>ModuleVersion_Get</td>
<td>Returns the information of a module version for the specified module and version.</td>
</tr>
<tr>
<td>ModuleVersion_List</td>
<td>Returns the information of all module versions for the specified module.</td>
</tr>
<tr>
<td>Plugin_Register</td>
<td>Registers the caller eSpace as a LifeTime plugin: in the LifeTime 'More' menu a new link is created with the specified name that redirects to the entry point provided, or the default entry point if none is provided. All web screens of the plugin are displayed with their owner name. Each eSpace can only register a single plugin.</td>
</tr>
<tr>
<td>Plugin_Unregister</td>
<td>Unregisters the caller eSpace as a LifeTime plugin: in the LifeTime 'More' menu there is no longer a link to the plugin.</td>
</tr>
<tr>
<td>Security_CheckApplicationPermission</td>
<td>Checks if a user has a permission for a specific application running on an environment. If no user is specified, the current user is used.</td>
</tr>
<tr>
<td>Security_CheckEnvironmentPermission</td>
<td>Checks if a user has a permission for a specific environment. If no user is specified, the current user is used.</td>
</tr>
<tr>
<td>Action</td>
<td>Description</td>
</tr>
<tr>
<td>--------</td>
<td>-------------</td>
</tr>
<tr>
<td><strong>Security_CheckInfrastructurePermission</strong></td>
<td>Checks if a user has the 'Configure Infrastructure' permission. If no user is specified, the current user is used.</td>
</tr>
<tr>
<td><strong>Security_GetApplicationsPermissions</strong></td>
<td>Returns the permissions the specified user has for each application in the environment. If no user is specified, the current user is used.</td>
</tr>
<tr>
<td><strong>Security_GetEnvironmentsPermissions</strong></td>
<td>Returns the permissions the specified user has for each environment. If no user is specified, the current user is used.</td>
</tr>
<tr>
<td><strong>SetLoginRedirectURL</strong></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Structure</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ApplicationInfo</strong></td>
<td>Application details and environment specific information where the application is running.</td>
</tr>
<tr>
<td><strong>ApplicationVersionInfo</strong></td>
<td>Information of a specific version of an application, and the versions of its modules.</td>
</tr>
<tr>
<td><strong>DeploymentInfo</strong></td>
<td>Deployment information with the operations executed.</td>
</tr>
<tr>
<td><strong>DeploymentMessage</strong></td>
<td>Message from a deployment operation log.</td>
</tr>
<tr>
<td><strong>DeploymentOperationInfo</strong></td>
<td>A deployment operation as specified in the deployment plan.</td>
</tr>
<tr>
<td><strong>EnvironmentApplicationInfo</strong></td>
<td>Application information for a specific environment.</td>
</tr>
<tr>
<td><strong>EnvironmentApplicationPermission</strong></td>
<td>A user's permission to an application in an environment.</td>
</tr>
<tr>
<td><strong>EnvironmentInfo</strong></td>
<td>An environment and its information.</td>
</tr>
<tr>
<td><strong>EnvironmentModuleInfo</strong></td>
<td>Information of a module in a specific environment.</td>
</tr>
<tr>
<td><strong>EnvironmentPermission</strong></td>
<td>A user's permission to an environment.</td>
</tr>
<tr>
<td><strong>ModuleInfo</strong></td>
<td>Module information and the status in the environments where the modules are running.</td>
</tr>
<tr>
<td><strong>ModuleVersionInfo</strong></td>
<td>Information about a module version.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Static Entity</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ApplicationPermissionLevel</strong></td>
<td>Permission level that a user has over an application.</td>
</tr>
<tr>
<td><strong>DeploymentMessageType</strong></td>
<td>The type of a deployment message.</td>
</tr>
<tr>
<td><strong>DeploymentOperationType</strong></td>
<td>The type of a deployment operation.</td>
</tr>
<tr>
<td><strong>DeploymentStatus</strong></td>
<td>The status of a deployment operation.</td>
</tr>
<tr>
<td>Static Entity</td>
<td>Description</td>
</tr>
<tr>
<td>-------------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>DialogBoxIcon</td>
<td>Internal only. Icon of a Dialog Box.</td>
</tr>
<tr>
<td>ElementType</td>
<td>The types of elements a module references or exposes as public.</td>
</tr>
<tr>
<td>EnvironmentPermissionLevel</td>
<td>Permission level that a user has over an application.</td>
</tr>
<tr>
<td>LayoutPopupButtonClicked</td>
<td>The message of an OnNotify action when a button is pressed in a popup.</td>
</tr>
</tbody>
</table>

Widgets

Internal_Layer_LifeTime

The LifeTime layout.

**Inputs**

**HelpURL**
- Type: optional, Text.

**ForceFixedContentOnTop**
- Type: optional, Boolean.

Internal_Layer_Popup

The Popup Layout to be used in a LifeTime plugin. Pressing the popup buttons triggers the OnNotify action containing a LayoutPopupButtonClicked identifier.

**Inputs**

**Title**
- Type: mandatory, Text.
  - The Title of the Popup.

**Subtitle**
- Type: optional, Text.
The Subtitle of the Popup.

**ConfirmButtonLabel**
Type: optional, Text.
The label of the confirmation button.

**CancelButtonLabel**
Type: optional, Text.
The label of the cancel button.

**HideConfirmButton**
Type: optional, Boolean.
If True, the confirmation button is hidden.

**HideCancelButton**
Type: optional, Boolean.
If True, the cancel button is hidden.

**AlignTitleToCenter**
Type: optional, Boolean.
If True, the Title is aligned to the center of the popup.

**IgnoreNotifyOnCancel**
Type: optional, Boolean.
If True, pressing the cancel button does not trigger the OnNotify action.

**WrapTitle**
Type: optional, Boolean.
If True, the Title is wrapped.

**HideScrollbars**
Type: optional, Boolean.
If True, no scrollbars are shown when necessary.

**JustifyContent**
Type: optional, Boolean.
If True, the content of the popup is justified.

**Icon**
Type: optional, DialogBoxIcon Identifier.
The icon to appear in the Popup.

---

## Layout_LifeTimeSDK

The Web Block to be used as the base layout for a LifeTime plugin. The layout allows you to easily create screens with the look and feel of LifeTime, since it contains LifeTime header and footer.

The layout also contains a stamp for you to customize with the developer or company name, when you...
register the plugin.

Actions

Application_Get

Returns the information of an application in an environment.
If the environment is not specified, information of the application across all infrastructure is returned.

Inputs

ApplicationKey
  Type: mandatory, Text.
  The application unique identifier.

EnvironmentKey
  Type: optional, Text.
  The environment unique identifier. If the environment is not specified, information of the application across all infrastructure is returned.

IncludeModules
  Type: mandatory, Boolean.
  True returns information about the modules of the application, false only returns information of the application.

Outputs

Application
  Type: ApplicationInfo.
  Application with its information, such as name, description, url.

Modules
  Type: ModuleInfo List.
  List of modules with their information, such as name, description, status.

Application_List

Returns a list of the applications in the specified environment that are visible within LifeTime, with their information, such as name, description, url. If no environment is specified, information of all visible
applications across all environments is returned.

**Inputs**

**EnvironmentKey**
- Type: optional, Text.
  - The environment unique identifier. If no environment is specified, information of all visible applications across all environments is returned.

**IncludeHiddenApplications**
- Type: optional, Boolean.
  - If set to True, the result includes applications that are not visible within LifeTime.

**Outputs**

**Applications**
- Type: ApplicationInfo List.
  - List of applications with their information, such as name, description, url.

---

**ApplicationVersion_Get**

Returns information of an application on a specified date.

**Inputs**

**ApplicationKey**
- Type: mandatory, Text.
  - The application unique identifier.

**Version**
- Type: mandatory, Text.
  - The version number.

**Outputs**

**ApplicationVersion**
- Type: ApplicationVersionInfo.
  - Application with its information, such as version, description and modules.

---

**ApplicationVersion_List**

Returns the information of all tagged application versions for the specified application.

**Inputs**
**ApplicationKey**
Type: mandatory, Text.
The application unique identifier.

**CreatedOnEnvironmentKey**
Type: optional, Text.
The environment unique identifier from where the versions are to be retrieved. If the environment is not specified, information of the application versions across all infrastructure is returned.

**Outputs**
**ApplicationVersions**
Type: ApplicationVersionInfo List.
List of application versions with their information, such as version, description and its modules.

---

**Deployment_Get**

Returns information of the specified deployment.

**Inputs**
**DeploymentKey**
Type: mandatory, Text.
The deployment unique identifier.

**IncludeLog**
Type: mandatory, Boolean.
If true, returns the deployment log information.

**Outputs**
**Deployment**
Type: DeploymentInfo.
The deployment with its information, such as source environment, target environment, and operations executed.

**DeploymentLog**
Type: DeploymentMessage List.
The log of the operations executed during the deployment.

---

**Deployment_List**

Returns information of all deployments made between two environments.

**Inputs**
SourceEnvironmentKey
Type: optional, Text.
The environment unique identifier. If not specified, returns deployments from all environments.

TargetEnvironmentKey
Type: optional, Text.
The environment unique identifier. If not specified, returns deployments to all environments.

DeploymentStatus
Type: optional, DeploymentStatus Identifier.
The deployment status. If not specified, returns deployments finished with any status.

IgnoreUnchangedApplications
Type: mandatory, Boolean.
If true, ignores the applications that were not changed in the deployments.

Outputs
Deployments
Type: [DeploymentInfo] List.
The list of deployments with their information, such as source environment, target environment, and operations executed.

Environment_Get

Returns the information of an environment, such as name, version of the Platform, Application Server.

Inputs
EnvironmentKey
Type: mandatory, Text.
The environment unique identifier.

Outputs
Environment
Type: [EnvironmentInfo].
Information of an environment, such as name, version of the Platform, Application Server.

Environment_List

Returns a list of environments with their information, such as name, version of the Platform, Application Server.
**Outputs**

**Environments**

Type: `EnvironmentInfo` List.
List of environments with their information, such as name, version of the Platform, Application Server...

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**GetUserSessionToken**

Returns an authentication token that is valid for 5 minutes, for the session user.

**Inputs**

**Username**

Type: mandatory, Text.
A LifeTime username.

**Outputs**

**Token**

Type: Text.
A session token. This token expires 5 minutes after it has been created.

**ResponseMessage**

Type: Text.
A human readable message that explains why the call to the API failed.

**ResponseAdditionalInfo**

Type: Text.
More information about why the call to the API failed.

---

**ModuleVersion_Get**

Returns the information of a module version for the specified module and version.

**Inputs**

**ModuleKey**

Type: mandatory, Text.
The module unique identifier.

**ModuleVersionKey**

Type: mandatory, Text.
The module version unique identifier.
**Outputs**

**ModuleVersion**
- **Type:** ModuleVersionInfo.
  - Module version with its information, such as key, when it was created and by whom.

---

**ModuleVersion_List**

Returns the information of all module versions for the specified module.

**Inputs**

**ModuleKey**
- **Type:** mandatory, Text.
  - The module unique identifier.

---

**Outputs**

**ModuleVersions**
- **Type:** ModuleVersionInfo List.
  - List of module versions with their information, such as key, when it was created and by whom.

---

**Plugin_Register**

Registers the caller eSpace as a LifeTime plugin: in the LifeTime 'More' menu a new link is created with the specified name that redirects to the entry point provided, or the default entry point if none is provided. All web screens of the plugin are displayed with their owner name.

Each eSpace can only register a single plugin.

**Inputs**

**PluginName**
- **Type:** mandatory, Text.
  - The name of the plugin. The name provided will be displayed in LifeTime 'More' menu.

**EntryPointName**
- **Type:** optional, Text.
  - The entry point to use when clicking the link created in LifeTime 'More' menu. If no entry point is provided, the default is used.

**DeveloperName**
- **Type:** optional, Text.
  - The developers of the plugin. The name is displayed in all web screens of the plugin.
Plugin Unregister

Unregisters the caller eSpace as a LifeTime plugin: in the LifeTime ‘More’ menu there is no longer a link to the plugin.

Security_CheckApplicationPermission

Checks if a user has a permission for a specific application running on an environment. If no user is specified, the current user is used.

*Inputs*

**UserId**
Type: optional, User Identifier.
The user to check permissions for. If no user is specified, the current user is used instead.

**RequiredPermissionLevel**
Type: mandatory, ApplicationPermissionLevel Identifier.
The permission level to check for.

**EnvironmentKey**
Type: mandatory, Text.
The environment unique identifier.

**ApplicationKey**
Type: mandatory, Text.
The application unique identifier.

*Outputs*

**HasPermission**
Type: Boolean.
True if the user has the specified permission, false otherwise.

Security_CheckEnvironmentPermission

Checks if a user has a permission for a specific environment. If no user is specified, the current user is used.

*Inputs*

**UserId**
Type: optional, User Identifier.

Updated: Mon, 18 Nov 2019 00:59:22 GMT
The user to check permissions for. Defaults to the logged in user if not specified.

**RequiredPermissionLevel**
Type: mandatory, EnvironmentPermissionLevel Identifier.
The permission level to check for.

**EnvironmentKey**
Type: mandatory, Text.
The environment unique identifier.

**Outputs**
**HasPermission**
Type: Boolean.
True if the user has the requested permission, false otherwise.

---

**Security_CheckInfrastructurePermission**

Checks if a user has the 'Configure Infrastructure' permission. If no user is specified, the current user is used.

**Inputs**
**UserId**
Type: optional, User Identifier.
The user to check permissions for. If no user is specified, the current user is used instead.

**Outputs**
**HasPermission**
Type: Boolean.
True if the user has the requested permission, false otherwise.

---

**Security_GetApplicationsPermissions**

Returns the permissions the specified user has for each application in the environment. If no user is specified, the current user is used.

**Inputs**
**UserId**
Type: optional, User Identifier.
The user to check permissions for. If no user is specified, the current user is used instead.
EnvironmentKey
Type: mandatory, Text.
The environment unique identifier.

Outputs
EnvironmentApplicationsPermissions
Type: EnvironmentApplicationPermission List.
List of the application permissions for each application in the environment.

Security_GetEnvironmentsPermissions

Returns the permissions the specified user has for each environment. If no user is specified, the current user is used.

Inputs
UserId
Type: optional, User Identifier.
The user to check permissions for. If no user is specified, the current user is used instead.

Outputs
EnvironmentsPermissions
Type: EnvironmentPermission List.
List of the permissions for each environment.

SetLoginRedirectURL

Inputs
URL
Type: mandatory, Text.

Structures
ApplicationInfo

Application details and environment specific information where the application is running.

Attributes

Key
Type: Text (50).
Application unique identifier.

Name
Type: Text (50).
Name of the application.

Description
Type: Text (50).
Description of the application.

URLPath
Type: Text (50).
Relative URL path of the application, starting from the hostname.

IconHash
Type: Text (50).
Hash of the application icon. Can be used to detect changes in the application icon.

IconURL
Type: Text (50).
The URL for the application icon.

StatusInEnvironments
Type: EnvironmentApplicationInfo List.
Information about the status of the application in each environment it is running.

IsSystem
Type: Boolean.
Indicates if the application is a built-in component of the AgilePlatform (e.g. ServiceCenter, LifeTime, ...).

IsHidden
Type: Boolean.
Indicates if the application is not visible within LifeTime.

ApplicationKindId
Type: RuntimeKind Identifier.
ApplicationVersionInfo

Information of a specific version of an application, and the versions of its modules.

**Attributes**

**Version**
Type: Text (50).
Version of the application.

**Description**
Type: Text (50).
Description of the version.

**CreatedAtEnvironmentKey**
Type: Text (50).
Environment unique identifier of the environment where the application was created.

**CreatedAt**
Type: Date Time.
Date and time of the application creation.

**CreatedBy**
Type: Text (50).
Username of the user that created the application version.

**ModuleVersions**
Type: ModuleVersionInfo List.
List of module versions that make the application version.

DeploymentInfo

Deployment information with the operations executed.

**Attributes**

**Key**
Type: Text (50).
Deployment unique identifier.

**SourceEnvironmentKey**
Type: Text (50).
Source environment unique identifier.

**TargetEnvironmentKey**
Type: Text (50).
Target environment unique identifier.
Notes
  Type: Text (50).
  Deployment notes.

TwoStepMode
  Type: Boolean.
  True if the deployment was executed in two stages, false otherwise.

DeploymentStatusId
  Type: DeploymentStatus Identifier.
  Deployment status identifier.

CreatedOn
  Type: Date Time.
  Date and time when the deployment plan was created.

CreatedBy
  Type: Text (50).
  Username of the user that created deployment plan.

SavedOn
  Type: Date Time.
  The date and time when the deployment plan was saved.

StartedOn
  Type: Date Time.
  The date and time when the deployment started.

StartedBy
  Type: Text (50).
  Username of the user that started the deployment.

NeedsUserIntervention
  Type: Boolean.
  True if the deployment needs the user intervention to proceed, false otherwise.

DeploymentFinishedOn
  Type: Date Time.
  Date and time when the deployment was completed.

SyncFinishedOn
  Type: Date Time.
  Date and time when the synchronization between the target environment and LifeTime was completed.

Operations
  Type: DeploymentOperationInfo List.
  List of operations to execute, as specified in the deployment plan.
DeploymentMessage

Message from a deployment operation log.

Attributes

Instant
  Type: Date Time.
  Date and time when the message was logged.

Message
  Type: Text (50).
  Content of the message. Can be used to group messages.

Detail
  Type: Text (50).
  Details of the message.

DeploymentMessageTypeId
  Type: DeploymentMessageType Identifier.
  Type of the message. Can be used to identify errors, warnings and other events.

DeploymentOperationInfo

A deployment operation as specified in the deployment plan.

Attributes

ApplicationKey
  Type: Text (50).
  Application unique identifier.

SourceApplicationVersion
  Type: Text (50).
  Application version in the source environment.

TargetApplicationVersion
  Type: Text (50).
  Application version in the target environment.

DeploymentOperationTypeId
  Type: DeploymentOperationType Identifier.
  Type of operation to execute, as specified in the deployment plan.
EnvironmentApplicationInfo

Application information for a specific environment.

Attributes

EnvironmentKey
Type: Text (50).
Environment unique identifier.

ExistsInEnvironment
Type: Boolean.
True if the application exists in the environment, false otherwise.

Version
Type: Text (50).
Version of the application.

IsModified
Type: Boolean.
True if the application has been changed since the last tag, false otherwise.

LastPublishedOn
Type: Date Time.
Date and time of the last publication.

LastPublishedBy
Type: Text (50).
Username of user that performed the last publication.

EnvironmentApplicationPermission

A user's permission to an application in an environment.

Attributes

ApplicationKey
Type: Text (50).
Application unique identifier.

ApplicationPermissionLevelId
Type: ApplicationPermissionLevel Identifier.
Application Permission Level identifier.
## EnvironmentInfo

An environment and its information.

### Attributes

<table>
<thead>
<tr>
<th>Key</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Key</strong></td>
<td>Text</td>
<td>Environment unique identifier.</td>
</tr>
<tr>
<td><strong>Name</strong></td>
<td>Text</td>
<td>Name of the environment.</td>
</tr>
<tr>
<td><strong>Version</strong></td>
<td>Text</td>
<td>Platform Server version. [X.X.X.X]</td>
</tr>
<tr>
<td><strong>Order</strong></td>
<td>Integer</td>
<td>The order of the environment as displayed in Lifetime.</td>
</tr>
<tr>
<td><strong>HostName</strong></td>
<td>Text</td>
<td>Hostname of the environment.</td>
</tr>
<tr>
<td><strong>UseHTTPS</strong></td>
<td>Boolean</td>
<td>Indicates if connections to the environment are made using HTTPS.</td>
</tr>
<tr>
<td><strong>InProductionMode</strong></td>
<td>Boolean</td>
<td>Indicates if the environment is running in production mode.</td>
</tr>
<tr>
<td><strong>NumberOfFrontEnds</strong></td>
<td>Integer</td>
<td>Number of front-end servers in the environment.</td>
</tr>
<tr>
<td><strong>ApplicationServerType</strong></td>
<td>Text</td>
<td>Stack of the application server.</td>
</tr>
<tr>
<td><strong>ApplicationServer</strong></td>
<td>Text</td>
<td>Type of application server. [IIS</td>
</tr>
<tr>
<td><strong>DatabaseProvider</strong></td>
<td>Text</td>
<td>Type of database provider. [SqlServer</td>
</tr>
<tr>
<td><strong>IsCloudEnvironment</strong></td>
<td>Boolean</td>
<td>Indicates if the environment is running on a cloud service.</td>
</tr>
</tbody>
</table>
EnvironmentModuleInfo

Information of a module in a specific environment.

Attributes

EnvironmentKey
Type: Text (50).
Environment unique identifier.

ExistsInEnvironment
Type: Boolean.
True if the module exists in the environment, false otherwise.

PublishedOn
Type: Date Time.
Date and time of the publication.

PublishedBy
Type: Text (50).
Username of the user that published the module.

Status
Type: Text (50).
Status of the module. Is empty if the module is working correctly, and returns ‘Warning’ if the module has outdated references, or ‘Error’ if the module uses broken references.

StatusMessage
Type: Text (50).
Verbose status messages associated with the module, one message per line of text.

ModuleVersionInfoKey
Type: Text (50).
Module version unique identifier.

EnvironmentPermission

A user's permission to an environment.

Attributes

EnvironmentKey
Type: Text (50).
Environment unique identifier.
EnvironmentPermissionLevelId
Type: EnvironmentPermissionLevel Identifier.
Environment Permission Level identifier.

ModuleInfo
Module information and the status in the environments where the modules are running.

Attributes
Key
Type: Text (50).
Module unique identifier.

Name
Type: Text (50).
Name of the module.

Kind
Type: Text (50).
Module type (eSpace or Extension).

Description
Type: Text (50).
Description of the module.

StatusInEnvironments
Type: EnvironmentModuleInfo List.
Status of the module for each environment where the application is running.

ModuleVersionInfo
Information about a module version.

Attributes
Key
Type: Text (50).
Module version unique identifier.

ComparisonHash
Type: Text (100).
Hash of the module version. Can be used to validate if two module versions have differences.
Static Entities

ApplicationPermissionLevel

Permission level that a user has over an application.

Attributes

Id
  Type: Integer.

Label
  Type: Text (50).

Description
  Type: Text (128).

Level
  Type: Integer.

Records

- NoAccess
- List
- OpenReuse
- ChangeDeploy
DeploymentMessageType

The type of a deployment message.

Attributes
Id
Type: Integer.

Label
Type: Text (50).

Records
- StageAborted
- Info
- PublishStop
- Start
- End
- Error
- Unknown
- Warning
- Step
- StepSub
- AcceptableError

DeploymentOperationType

The type of a deployment operation.

Attributes
Id
Type: Integer.

Label
Type: Text (50).

Order
Type: Integer.

Records
• Unchanged
• Deploy
• Republish

DeploymentStatus

The status of a deployment operation.

Attributes

Id
Type: Integer.

Label
Type: Text (50).

Order
Type: Integer.

Records

• NeedsUserIntervention
• InProgress
• Planned
• Synchronized
• Deployed
• Draft

DialogBoxIcon

Internal only. Icon of a Dialog Box.

Attributes

Id
Type: Integer.

Label
Type: Text (50).
**CssClass**

Type: Text (50).

---

**Records**

- None
- Success
- Error
- Feedback
- Warning

---

**ElementType**

The types of elements a module references or exposes as public.

**Attributes**

**Id**

Type: Integer.

---

**Label**

Type: Text (50).

---

**Order**

Type: Integer.

---

**Records**

- HumanActivity
- Structure
- HiddenEntity
- WebBlock
- Unknown
- Image
- Action
- WebFlow
- WebScreen
- Theme
- StaticEntity
- Role
- Entity
EnvironmentPermissionLevel

Permission level that a user has over an application.

Attributes

Id
Type: Integer.

Label
Type: Text (50).

Description
Type: Text (128).

Level
Type: Integer.

ApplicationLevelId
Type: ApplicationPermissionLevel Identifier.
The application level to which this environment level corresponds.

Records

- NoAccess
- FullControl
- ChangeDeploy
- OpenReuse
- List

LayoutPopupButtonClicked

The message of an OnNotify action when a button is pressed in a popup.

Attributes

Id
Type: Integer.
Label
  Type: Text (50).

Records
  • Cancel
  • Confirm