Ein Bild, das Tisch, Zeichnung enthält.

Automatisch generierte Beschreibung

**OpenTwin** – Local Directory Service Documentation

Version 1.0

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# Introduction

This documentation describes the Local Directory Service.

# Configuration

The Local Directory Service requires an environment variable containing the configuration set.

The environment variable name is: OT\_LOCALDIRECTORYSERVICE\_CONFIGURATION.

The configuration is expected to be a JSON Object. If the JSON is broken (missing members, wrong data types, …) the service startup will be cancelled. The exit code represents the occurred error (See: [Exit codes](#_Exit_codes)).

## Configuration JSON syntax

|  |
| --- |
| {  “MaxServiceRestarts”: 1, // Global default  “LauncherName”: “<Executable name>”, // Optional, default: open\_twin.exe  “ServicesLibraryPath”: “<LibraryPath>”, // Optional, default: LDS path  “SupportedServices”: [  “Service name only”, // String only: Service name only  { // Object instead: More options  “Name”: “<Service name>”,  “Type”: “<Service type>”, // Optional, default: Type = Name  “MaxRestarts”: 1 // Optional, default: Global default  },  …  ]  } |

### General

|  |  |  |
| --- | --- | --- |
| Member | Type | Description |
| MaxServiceRestarts | Unsigned integer | The number describes the default maximum number of restarts for every service after a crash. The restart counter will count for every service in every session separately. The restart counter will not reset after a service has been successfully restarted, only after the service was shutdown regularly. If the value is 0 or the maximum service restart counter has been reached the affected session will be shut down in case of a service crash.  The value can be overwritten for every service separately (See: [Service provided as Object](#_Service_provided_as)). |
| LauncherName | String | **Optional:** The name of the executable where the services will be attached to.  **Default:** open\_twin.exe (On windows) |
| ServicesLibraryPath | String | **Optional:** The path where the services are located. This path is used to launch a service  (Path + Service name).  **Default:** Will be set to the same path where the Local Directory Service is running at. |

|  |  |  |
| --- | --- | --- |
| Member | Type | Description |
| SupportedServices | Array | The array contains all services that can be started by this Directory Service. If a service start will be requested for a service that is not contained in this list, an error message will be returned to the caller.  (For more information see: [Supported Services](#_Supported_Services)) |

### Supported Services

The supported services can be provided by a string or an object.

#### Service provided as String

If a string is provided, the service type and name will be set to the specified string. The other values will be set to their default value.

#### Service provided as Object

|  |  |  |
| --- | --- | --- |
| Member | Type | Description |
| Name | String | The name of the service (Must be unique).  The name of the service must match the service file  (e.g. Name = “MyService”, dll file on windows = “MyService.dll”) |
| Type | String | Optional: The type of the service Default: The name of the service will be set as the service type as well. |
| MaxRestarts | Unsigned integer | Optional: If provided the maximum restarts for the service will be set to the value.  Default: The global value will be used (See: [General](#_General)) |

# Exit codes

|  |  |
| --- | --- |
| Exit code | Description |
| -15 | Configuration: JSON Entry: Services library path is not a string |
| -14 | Configuration: JSON Entry: Launcher name is not a string |
| -13 | Configuration: JSON Entry: Max Service restarts is not an unsigned integer |
| -12 | Configuration: JSON Entry: Global max service restarts is missing |
| -11 | Configuration: JSON Entry: Service type is not a string |
| -10 | Configuration: JSON Entry: Service type is empty |
| -9 | Configuration: JSON Entry: Service name is not a string |
| -8 | Configuration: JSON Entry: Service name is empty |
| -7 | Configuration: JSON Entry: Service name is missing |
| -6 | Configuration: Supported service duplicate |
| -5 | Configuration: JSON Entry: Supported service is not a string nor an object |
| -4 | Configuration: JSON Entry: Supported services is not an array |
| -3 | Configuration: JSON Entry: Supported services is missing |
| -2 | Configuration: JSON: Is not an object |
| -1 | Configuration: Configuration environment variable not set |
| 0 | No errors occurred |
| 1 | Initialization: Invalid service URL syntax |

# Document Version History

|  |  |  |  |
| --- | --- | --- | --- |
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