Upgrading UDD v1.0 Scripts to UDD v2.0

# Introduction

The Universal Device Driver v2.0 (Kepware 6.11 and newer) release includes some breaking changes to existing UDD v1.0 (Kepware 6.10 only) scripts and adds many new (additive) features that can provide additional, optional functionality to UDD v1.0 scripts. This document will cover the changes that need to be made to get a UDD v1.0 script running in UDD v2.0.

# Changes

The following changes were made to increase clarity of the capabilities of the functions and enumeration values, reinforce the event driven nature of the profile scripts, and to better adhere to standard JavaScript naming conventions. This section covers the minimum set of changes that need to be made to make a v1.0 script run in v2.0

## Function Names

UDD v2.0 still requires the inclusion of four core functions that roughly correspond to the four functions required in UDD v1.0. Because the capabilities of these functions had changed, they were renamed to better describe how they can and should be used in the new version of UDD.

|  |  |
| --- | --- |
| 1.0 Names | 2.0 Names |
| GetDriverInfo() | **onProfileLoad()** |
| ValidateAddress() | **onValidateTag()** |
| BuildMessage() | **onTagsRequest()** |
| ParseMessage() | **onData()** |

## Return Values

Some of the required properties in the return objects were changed.

### onProfileLoad

The value for the version property in onProfileLoad must be changed to “2.0” and you identify the “mode” that you want the driver to be in. All v1.0 scripts only supported a “Client” mode so this would be the appropriate setting.

|  |  |
| --- | --- |
| 1.0 Version | 2.0 Version |
| return {version: “1.0”} | return {version: **“2.0”, mode: ‘Client**} |

### onTagsRequest

The status field was changed to “action”.

|  |  |
| --- | --- |
| 1.0 Return Object | 2.0 Return Object |
| return {status: “<status>”} | return {**action**: **“<action>”**} |

The valid return values for this field were also changed:

|  |  |
| --- | --- |
| 1.0 Status Values | 2.0 Action Values |
| “Receive” | “Receive” (no change) |
| “Failure” | **“Fail”** |

### onData

The status field was changed to “action”.

|  |  |
| --- | --- |
| 1.0 Return Object | 2.0 Return Object |
| return {status: “<status>”} | return {**action**: **“<action>”**} |

The valid return values for this field were also changed:

|  |  |
| --- | --- |
| 1.0 Status Values | 2.0 Action Values |
| “Success” | “**Complete**” |
| “Failure” | **“Fail”** |

# New Features

For a complete accounting of the new features and capabilities available in UDD v2.0, please refer to the Help documents, templates and examples found in the following locations:

<https://www.ptc.com/en/store/kepware/drivers/universal-device-driver>