Oracle® MICROS Simphony Extensibility Compatibility Guide





Oracle MICROS Simphony Extensibility Compatibility Guide Release 19.2.x or Later

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Preface

An Oracle MICROS Simphony POS architecture change beginning with version 19.2, affects applications built against the extensibility API DLLs. Extensibility developers must take action to maintain compatibility.

Purpose

This document provides details of what extensibility app developers need to do to maintain compatibility with Simphony 19.2.x or later.

Audience

This document is intended for extensibility developers for Simphony.

Customer Support

To contact Oracle Customer Support, access My Oracle Support at the following URL:

https://support.oracle.com

When contacting Customer Support, please provide the following:

- Product version and program/module name
- Functional and technical description of the problem (include business impact)
- Detailed step-by-step instructions to re-create
- Exact error message received and any associated log files
- Screenshots of each step you take

Documentation

Oracle MICROS product documentation is available on the Oracle Help Center at http://docs.oracle.com/en/industries/food-beverage/

Revision History

Date	Description of Change
September 2021	Initial publication.



Introduction

A Simphony POS architecture change beginning with version 19.2 affects applications built against the extensibility API DLLs.

Scope of Document

This document serves as a guidance for extensibility developers on actions required to maintain compatibility with Simphony 19.2 or later, including:

- General implications of the Simphony architecture change.
- Actions required to maintain compatibility.
- How to configure specific extensibility apps for multiple Simphony versions.
- Implementation specific implications



General Implications

Simphony POS architecture changed beginning with version 19.2, adding functionality for Simphony Transaction Services (STS) Gen2, for both on premise and Cloud environments. This change affected Extensibility API forwards and backwards compatibility.

Any Simphony version 19.2 or later Extensibility solutions need to be built against Simphony Core DLL's:

- Ops.dll
- PosCommonClasses.dll
- PosCore.dll

Compatibility

Extensibility solutions are neither forwards nor backwards compatible with 19.2. Specifically:

- 1. A Simphony 19.2 Extensibility solution is **not** backwards compatible. It will not run on Simphony Client 19.1, or 18.2 and earlier.
- 2. Any existing Simphony Extensibility solution (built against Simphony 19.1, 18.2 or earlier) is **not** forwards compatible. It will not run on a Simphony 19.2 client.

Maintaining Compatibility with Recompile

A recompile of existing extensibility solutions is necessary against the 19.2 DLLs to maintain compatibility with Simphony 19.2. In many cases, this is sufficient.

If *DataStoreClient* or *GetBusinessDateTime* are referenced in the code, then code changes are required. See the section later in this document detailing implementation specific changes when **more** than just a recompile is necessary.



Urgency and Timing

Simphony Enterprise Cloud can be updated to 19.2 without an updated client extensibility solution in place. However, updated client extensibility solutions **must** be in place before Simphony **clients** are updated to 19.2 or later. A Simphony client is able to stay on a previous version for days or weeks after Simphony Enterprise Cloud is updated to 19.2. This provides some flexibility for the development and/or deployment of updated extensibility solutions.



Configuring for Multiple Versions

Simphony allows simultaneous support for new and old extension applications, as described here. EMC offers the functionality needed to maintain version specific Extension Application Content (aka Simphony Extensibility DLLs).

Extension Applications (EMC)

EMC provides configuration for extension DLLs by version. It is through this configuration screen where it will be important to specify both the new and old versions, one for Simphony versions prior to 19.2, and one for 19.2 and later. Pictured is a sample of such a configuration.

1	Ex	tens	ion /	4ppl	icat	ion	Cont	ent	S	

#	Zoneable Key	Description	Option Bits	Disk File Name	Target	Version	
1	NewtonSoftJson .	. NewtonSoftJson	000000000000000000000000000000000000000	Newtonsoft.Json.dll	FF1FFFFF I	(any) - (any)	
2	VSDC .	. VSDC DLL	000000000000000000000000000000000000000	VSDC.dll	FF1FFFFF I	(any) - 19.1	
3	VSDC_19_2 .	. VSDC DLL	000000000000000000000000000000000000000	VSDC.dll	FF1FFFFF I	19.2 - (any)	
4	VSDCExtension .	. VSDCExtension	000000000000000000000000000000000000000	VSDCExtension.dll	FF1FFFFF I	(any) - 19.1	
5	VSDCExtension_19_2 .	. VSDCExtension	000000000000000000000000000000000000000	VSDCExtension.dll	FF1FFFFF I	19.2 - (any)	



Implementation Specific Implications

Simphony Extensibility internal *DataStoreClient (OpsContext.DataStore)* is deprecated and should no longer be used with Simphony 19.2.

Source needs to be updated to make use of the Extensibility *DataStoreClient* only (namespace *Micros.PosCore.Extensibility.DataStore*). Sample code is provided below.

Functionality around *OpsContext.GetBusinessDateTime()* has changed and needs to be updated. Sample code is provided below.

DataStoreClient

This sample below is based on a single Visual Studio solution that includes two Simphony Extensibility projects, one built against an earlier Simphony version, the second built against Simphony 19.2.

Deprecated use of Simphony Extensibility internal DataStoreClient.

```
var taxDefinitions = this OpsContext.DataStore | ReadTaxRecords();

foreach (var taxDefinition in taxDefinitions) | ReadTaxRecords | List<Micros.PosCore.DataStore.Dbtas> Micros.PosCore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.DataStore.D
```

Correct use of Simphony Extensibility DataStoreClient.

GetBusinessDateTime

Change in the Signature of the GetBusinessDateTime() method:

GetBusinessDateTime() method in earlier Simphony versions:

```
public Micros.EGatewayHandlerCommon.BusinessDateTimes GetBusinessDateTime(FinancialCalendarData calendarData);
```

GetBusinessDateTime() method in Simphony 19.2:

```
public BusinessDateTimes GetBusinessDateTime(PosCore.Extensibility.DataStore.DbRecords.FinancialCalendarData calendarData);
[Obsolete("GetBusinessDateTime is using internal types that you may not be able to access, please use the Micros.PosCore.Extensibility.DataSipublic Micros.EGatewayHandlerCommon.BusinessDateTime(PosCore.DataStore.DbRecords.FinancialCalendarData calendarData);
public list(PosColectionEstry, ControlPassagertPaysageCatesCaletime(PosCore.DataStore.DbRecords.FinancialCalendarData calendarData);
```

