# Oracle® MICROS Simphony Extensibility Compatibility Guide





Oracle MICROS Simphony Extensibility Compatibility Guide Release 19.2

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#### **Preface**

A Simphony POS architecture change in version 19.2 affects apps 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.

#### **Audience**

This document is intended for extensibility developers for Simphony.

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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 <a href="http://docs.oracle.com/en/industries/food-beverage/">http://docs.oracle.com/en/industries/food-beverage/</a>

#### **Revision History**

Date	Description of Change
December 2020	Initial publication.



## Introduction

A Simphony POS architecture change in v19.2 affects apps 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, 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.

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# **General Implications**

The Simphony POS architecture changed in 19.2 adding functionality for STS Gen2, for both on-premises and Cloud. This change affected Extensibility API forwards and backwards compatibility.

Any Simphony 19.2 Extensibility solution needs to built against Simphony 19.2 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 Simphony 19.2 Client.

### Maintaining Compatibility with Recompile

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

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



# **Urgency and Timing**

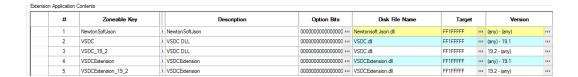
Simphony Enterprise Cloud can be updated to 19.2 without an updated client extensibility solution in place. However, updated client extensibility solutions **must** be in place before Simphony **clients** are updated to 19.2. A Simphony client is able to stay on a previous version for days or weeks after 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.



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## 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.

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.DataS public Micros.EGatewayHandlerCommon.BusinessDateTimes GetBusinessDateTime(PosCore.DataStore.DbRecords.FinancialCalendarData calendarData);