

Oracle® MICROS Symphony

Extensibility Compatibility Guide



Release 19.2.x or Later
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March 2023

The Oracle logo, consisting of the word "ORACLE" in white, uppercase, sans-serif font, centered within a solid red square.

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

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Preface

An Oracle MICROS Symphony 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 Symphony 19.2.x or later.

Audience

This document is intended for extensibility developers for Symphony.

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
March 2023	Initial publication.

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Introduction

A Symphony 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 Symphony 19.2 or later, including:

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

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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.

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Urgency and Timing

Simphony Enterprise Cloud can be updated to Simphony version 19.2 or later 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.

5 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)
{
    if (taxDefinition.TaxType == 3)
    {

```

The screenshot shows a Visual Studio editor with a code snippet. A red box highlights the `OpsContext.DataStore` property access. A tooltip is visible, showing a warning icon and the text: "List<Micros.PosCore.DataStore.DbRecords.DbTax> Micros.PosCore.DataStore.DataStoreClient.ReadTaxRecords()". Below the tooltip, it says "ExtensibilityFramework - Available" and "ExtensibilityFramework_19_2 - Not Available". At the bottom of the tooltip, it says "You can use the navigation bar to switch context."

Correct use of Simphony Extensibility *DataStoreClient*:

```
var taxDefinitions = this.DataStore.ReadTaxRecords();
foreach (var taxDefinition in taxDef
{
    if (taxDefinition.TaxType == 3)
    {

```

The screenshot shows a Visual Studio editor with a code snippet. A red box highlights the `DataStore` property access. A tooltip is visible, showing a warning icon and the text: "List<Micros.PosCore.Extensibility.DataStore.DbRecords.DbTax> DataStoreClient.ReadTaxRecords()".

GetBusinessDateTime

Change in the Signature of the *GetBusinessDateTime()* method:

GetBusinessDateTime() method in earlier Simphony versions:

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

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.DataStoreClient")]
public Micros.EGatewayHandlerCommon.BusinessDateTimes GetBusinessDateTime(PosCore.DataStore.DbRecords.FinancialCalendarData calendarData);
public List<PosFinanceEntry> GetCashManagementRevenueCenterSelection(int accountID, int orgID, int businessUnitID, int businessUnitID);
```