

Oracle® Hospitality Simphony
Property Device Configuration Guide
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Preface

This document provides guidance on how to setup and configure property hardware for use with Oracle Hospitality Simphony.

The information contained within this document applies to the following products:

- Oracle Hospitality Simphony Point-of-Sale
- Oracle Hospitality Simphony Premium Cloud Service
- Oracle Hospitality Simphony Standard Cloud Service

Audience

This document is intended for experienced users configuring property hardware and services used with Oracle Hospitality Simphony.

Scope

This document assumes that the user is generally familiar with the Oracle Hospitality Simphony architecture and features. It only contains information regarding the features and their functionality relative to the topics covered in this document.

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
- Screen shots of each step you take

Documentation

Oracle Hospitality product documentation is available on the Oracle Help Center at <http://docs.oracle.com/en/industries/hospitality/>

Acronyms and Abbreviations

The following acronyms and abbreviations are used throughout this document:

Acronym	Full Description
BUCAPS	Backup Check and Posting Service
CAPS	Check and Posting Service
EMC	Enterprise Management Console
KDS	Kitchen Display System
OPI	Oracle Payment Interface
POS	Point of Sale

Acronym	Full Description
PSP	Payment Service Provider
TMS	Table Management System

Revision History

Date	Description of Change
February 2018	<ul style="list-style-type: none"> Initial publication
April 2018	<ul style="list-style-type: none"> Updated to include the Compact Workstation 310
May 2018	<ul style="list-style-type: none"> Updated the Compact Workstation 310 sizing details in Chapter 6 Sizing Reference
August 2018	<ul style="list-style-type: none"> Updates to Chapter 6 and the specs for Workstation 620's

1 Introduction

Oracle Hospitality Simphony uses shared services to manage on-premises, operations functionality. These services ensure maximum availability and prevent Internet failures from causing outages and functionality loss. Using either point of sale workstation hardware or dedicated machines to run the shared services allows customers to optimize performance, cost, and resilience to meet their goals.

Many factors influence the shared services configuration, including:

- Transaction volume
- Point of sale client count
- Application feature usage, such as
 - Kitchen management
 - Labor management
 - Table management
- Resilience
- Available hardware
- Network topology

Simphony manages properties ranging in size from a single POS client to large resorts, casinos, theme parks, or stadiums with hundreds of POS and Kitchen Display System clients. As the number of clients and features used by a property increase, so do the hardware requirements for the devices hosting the services.

For small sites, shared services are commonly run on the POS client hardware, for example, an Oracle MICROS Workstation 610. For large sites, shared services are commonly run on a dedicated physical or virtual device.

Use the information contained within this document to select the shared services deployment model that best suits the operation's requirements.

2 Shared Services

Simphony relies upon shared services to operate property level functions that require high availability. These services run at the property instead of the cloud, due to the business' dependency upon their functionality.

Losing connectivity to these features can have a severe, negative affect on operations. For example, if the Kitchen Display System controller becomes unavailable, orders stop appearing on the kitchen displays

Deploying these services on-premises eliminates the greatest potential communication failure source, the Wide Area Network or Internet.

The following table provides a summary of each shared service and brief explanation of its primary functionality:

Shared Service	Key Functions
Backup Check and Posting	<ul style="list-style-type: none">Stores a redundant copy of the POS transaction posting messages sent to CAPS
Backup Kitchen Display System Controller	<ul style="list-style-type: none">Takes over Kitchen Display System client management if the KDS controller service fails
Check and Posting	<ul style="list-style-type: none">Posts transaction to enterpriseProperty reportingCheck sharing
Distributed Client Application Loader	<ul style="list-style-type: none">Stores CAL packages locallyUpgrades Simphony clients
Kitchen Display System Controller	<ul style="list-style-type: none">Manages communications with the Kitchen Display System clients
Oracle Payment Interface	<ul style="list-style-type: none">Manages communications between POS clients and Payment Service Provider middleware
Print Controller	<ul style="list-style-type: none">Manages the print jobs and queues for locally and network connected printers
Property Management System Interface	<ul style="list-style-type: none">Standard interface used typically to connect Simphony to Property Management Systems
Transaction Services	<ul style="list-style-type: none">Web service based POS clientCreate new and update existing transactionsProvides configuration information

The Oracle Payment Interface is not technically a "shared service" because it sits outside of the Simphony service host. It can be installed through a CAL package, but it is not configured or managed through the Enterprise Management Console (EMC). This

document contains information regarding this service because it contributes to the property hardware requirements.

Transaction Services is also not technically a shared service. It is a Simphony POS client that receives input from 3rd party systems instead of a graphical user interface. It is listed here because of the similar characteristics it shares with the other services.

- It runs in the background (no user interface)
- It can run on the same service host as POS client
- It uses data stored in the POS client database

For hardware configuration purposes, think of Transaction Services in the same fashion as shared services.

The following items are commonly referred to as shared services, but they always run as a part of the CAPS. There is no ability to assign them to a different service host. These features affect the system's performance, and configurations must take into account the additional load they place on the CAPS hardware.

Feature	Key Functions
Cash Management	<ul style="list-style-type: none">• Tracks cash totals• Deposit / safe totals
Labor Management	<ul style="list-style-type: none">• Clock in/out• Schedule management• Enterprise time punch posting
Table Management	<ul style="list-style-type: none">• Manages reservations• Manages waitlist• Updates table status on POS clients

Services Overview

Backup Check and Posting

The BUCAPS stores copies of transaction posting messages sent from the Simphony POS client to the CAPS. It protects the system against data loss in the event the hardware running the POS client and CAPS fails while offline from the enterprise and there are unposted transactions from the POS client.

Only deploy the BUCAPS on properties where there is hardware that is running both a Simphony POS client and the CAPS.

If the CAPS runs on hardware that is not also a POS client, there is no need for this feature.

The BUCAPS and CAPS cannot exist on the same hardware.

Backup Kitchen Display System Controller

The Backup KDS controller is an optional redundancy component that provides resilience for the KDS clients. Whenever the system detects that the primary KDS controller is not functioning, the backup KDS controller takes over communication to the KDS clients.

When the primary KDS controller is available again, the operator must manually change the system over to the primary.

While the system is in a non-fault state (the primary controller is functioning), the backup KDS controller receives order information from the primary KDS controller. If the system fails over to the backup KDS controller, the POS clients will send messages directly to the backup until the system is manually switched back to the primary controller.

The Backup KDS Controller and KDS Controller services cannot exist on the same hardware.

Check and Posting

The Check and Posting Service insulates the POS clients from enterprise latency by providing transaction posting, check sharing management, and property reporting. When enterprise communications are disrupted, the CAPS queues transaction posting messages and sends them upon connection restoration.

Deploy a single CAPS for each property defined in the Simphony Enterprise Management Console. If a large physical property (such as a resort or stadium) is divided into multiple logical properties in EMC, there will be one CAPS for each logical property.

When splitting up a large property into smaller, virtual properties take into consideration the following:

- POS client reports only show data for the logical property, not the entire physical property
- Checks transfers only occur between revenue centers on the same CAPS
- The virtual properties appear as separate locations in Reporting & Analytics – create reporting hierarchies that combine the locations to get a single view of the property
- Creating a zone in EMC that combines the virtual properties allows makes it possible to configure common items (e.g., menu items, discounts, service charges) in one place

The CAPS and BUCAPS cannot exist on the same hardware.

Properties that use Cash Management, Labor Management, or Table Management may require additional hardware resources for CAPS.

Distributed Client Application Loader

The Distributed Client Application Loader service provides local CAL package storage and client upgrade services. During the Simphony enterprise upgrade, new CAL are added to the system for installation on the property devices. When using the DCAL service, deploy the new packages to the site's DCAL service in advance of the upgrade. Once deployed, the Simphony clients can upgrade from the DCAL service instead of the enterprise – so Simphony clients can upgrade from this service instead of pulling the packages from the cloud. Only use this service when there are more than 2 Simphony devices on a property.

Kitchen Display System Controller

The Kitchen Display System Controller provides the bridge between the POS and KDS clients and manages the communication with the KDS clients.

The KDS controller device uses both the Simphony KDS shared service and the KDS Controller Windows service. When an order is sent to the kitchen, POS clients send data to the KDS shared service running on the designated service host. The KDS shared service forwards the information to the KDS Windows service which then manages the communication to and from the KDS clients.

As number of KDS clients and orders increase, the resource utilization of the KDS controller Windows service increases.

There is always a one to one relationship between Simphony KDS shared services and KDS Controller Windows Services. A property can have more than one KDS controller, which can be useful when there are revenue centers with independent kitchens – like in airport and large venue configurations.

The KDS Controller and Backup KDS Controllers services cannot exist on the same hardware.

Oracle Payment Interface

The Oracle Payment Interface provides a bridge between Simphony and the Payment Service Provider credit processing solution. Customers that use the OPI enjoy the benefits that come from keeping cardholder data out of the point of sale by processing the payments on semi-integrated devices provided by the PSP.

The OPI consists of an application and database that sit outside of the Simphony software. Each Simphony POS client communicates with the OPI whenever there is a need to process a credit card transaction.

Print Controller

The Print Controller service is automatically configured with each Simphony POS client. The service manages the printer queue and status updates.

The Print Controller always manages any printers connected through the local serial or IDN port. IP printers are linked to a printer controller, which might also manage locally connected devices. A printer may only communicate with a single print controller.

As a print controller manages more printers, its workload increases. Balancing the property's printing workload evenly across all available printer controllers prevents a service host from becoming overwhelmed with by the print jobs.

It is recommended that different Print Controllers manage the primary and their backup printers to prevent a single Print Controller failure from preventing all printing activity.

Property Management System Interface

The Property Management System interface service provides room charge and guest inquiry functionality with PMS solutions. In some cases, the PMS interface is used by SIM scripts to communicate with non-property management systems.

Transaction Services

Transaction Services is more akin to a Simphony POS client than shared service, but is included in this section because it can run on hardware that is also running the Simphony POS client. Transaction Services is best thought of as a "UI-less" Simphony POS client.

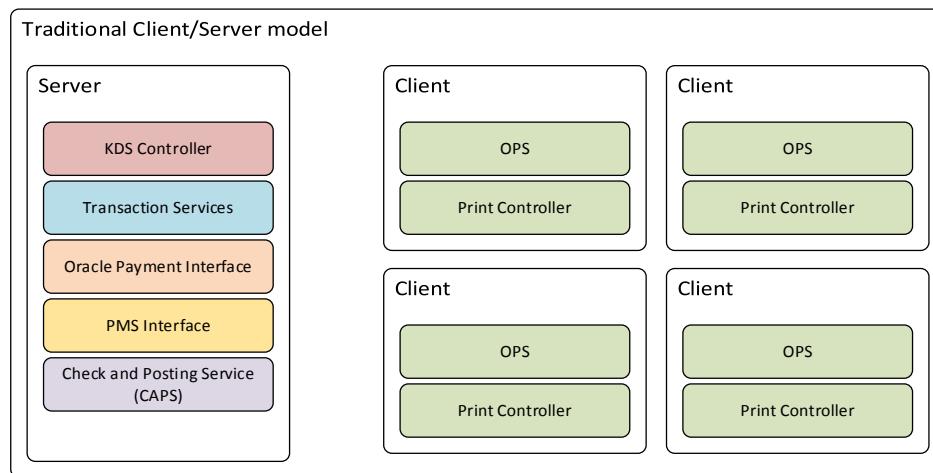
Transaction Services provides check processing and definition extraction services that 3rd party applications typically consume. The Oracle Hospitality eCommerce Integration Cloud Service and Oracle Payment Interface both use Transaction Services to connect Simphony with 3rd parties.

Customers with high transaction counts coming from 3rd party sources, for example, mobile, online, and non-Simphony client kiosk, should consider running the Transaction Services client on dedicated hardware.

3 Client/Server vs. Distributed Services

Traditional POS systems rely on a server located on property to manage the system, configuration, and back office applications. With a server available to perform the heavy lifting, POS workstations required only enough resources to run the POS client application and lightweight system level tasks.

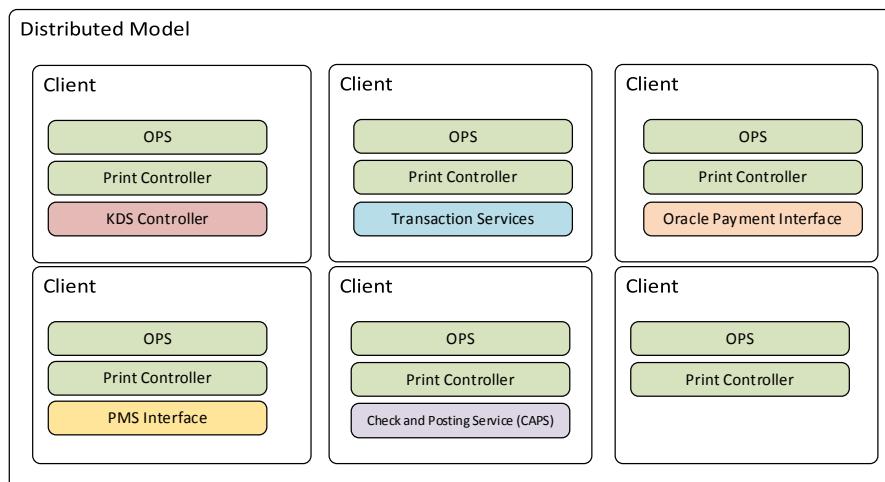
The following picture shows a POS system deployed using a client/server model.



Simphony supports using a single device to host shared services. In some cases, this choice provides advantages over the distributed model described below. A device's resource requirements increase as it hosts more shared services.

Simphony also supports spreading shared services across multiple devices, such as the Oracle MICROS Workstation 610. By using the hardware's computing power, it is possible to eliminate the need for an extra device to run the shared services.

The following picture shows a property with shared services running on multiple devices.



4 Service Allocation Considerations

Consider the following when determining the optimal shared services configuration:

- Point of Sale client count
- Resilience
- Transaction volume
- Hardware

Point of Sale Client Count

As the number of POS clients increase on a property, the workload increases on the shared services.

Often times, “right sizing” the shared services devices for the initial installation leaves no headroom for future growth. Without room to grow, there will be incremental hardware and consulting costs to expand property infrastructure for adding the new POS clients.

When recommending a property configuration, take into consideration future growth plans. For instance,

- Will tablets be added?
- Will online or mobile orders be added?
- Will the site start using or add more KDS clients?

Resilience

Place shared services on highly available devices. The POS client functionality and performance decrease when a shared service is under performing or cannot be accessed. Symphony enables the ability to balance fault tolerance and cost management requirements.

While modern wireless network infrastructure is more stable than in the past, wireless devices loss network connectivity more frequently than wired devices. If possible, used wired network connections for devices that host shared services.

Use the Backup CAPS and Backup KDS Controller services only when necessary. BUCAPS is only useful for scenarios in which CAPS and a POS or Transaction Services client share the same hardware. If CAPS runs on a machine without a POS or Transaction Services client, there is no need for BUCAPS.

These backup services increase both the network traffic and workstation hardware requirements. The same hardware requirements apply for both the primary and backup devices. For example, if a site requires a Workstation 620 for CAPS, then a Workstation 620 (or greater) must also be used for BUCAPS.

Spreading the services around multiple workstations

- Place shared services on highly available devices. Placing shared services on devices that lose network connectivity frequently will negatively affect the POS client operations on other devices.
- In a workstation-only environment, spread the services around as much as possible to mitigate the risk of a single workstation issue taking out large amounts of functionality.
- For larger properties, run shared services on appropriately powered, dedicated hardware that the staff interacts with infrequently, such as a virtual machine or dedicated back office PC.

Transaction Volume

As a site's guest check volume increases, so does the workload placed on the shared services. A guest check consists of one or more transactions – also known as a service round. Each round begins either by picking up (resuming) an existing check or starting a new check. The round is completed when the check is service totaled (saved) or tendered out completely.

Here are some typical examples of transaction counts:

- Counter service:
 - Begin check, ring in items, pay check
 - 1 transaction
- Drive thru:
 - Order window / speaker: begin check, ring in items, save check
 - Payment / pickup window: resume check, pay check
 - 2 transactions
- Table service:
 - Begin check, ring in appetizers, service total
 - Pick up check, ring in entrees, service total
 - Pick up check, apply discounts, print check, service total
 - Pick up check, pay check
 - 4 transactions

At the end of each service round, the POS client sends updates to CAPS, items to Print Controllers for remote printing, items to the KDS controller, and so on.

It is also important to consider the traffic patterns that a site sees. POS systems typically require high performance for short spurts – like half time at a sporting event or a lunch rush. The hardware selected must handle the peak loads seen at a site.

Hardware

In some cases, using a dedicated shared services device may be more cost effective than purchasing larger workstations to operate these services. For example, a customer may require 4 high end workstations to run the shared services. Alternatively, a dedicated shared services device and 4 lower cost workstations could be more cost effective.

While Simphony does not require a “back office server” to run shared services, there are advantages to consider with using a dedicated machine for shared services:

- An employee is less likely to turn off or move the shared services device
- Lesser powered POS client hardware can be used throughout the operation
- Support related activities will not require interrupting the service staff to use their device
- There isn't a need to mix and match different POS client types on the property, making it easier to maintain the workstation hardware
- Running CAPS separately from the POS clients eliminates the need for BUCAPS

While wireless networks are more reliable than ever, restaurant environments often provide challenges not seen in other environments like offices. Restaurant equipment (such as microwave ovens, broilers, and refrigerators) can adversely affect wireless connectivity.

Sites that want to only deploy tablets to the wait staff need a wired, dedicated shared services PC to run CAPS, KDS or other shared services.

5 Devices

The section contains information regarding Oracle MICROS workstations and other devices sold by Oracle commonly used to host shared services.

For each device, the part number and supported services are listed. Use this information in conjunction with the sizing information provided in the next section to determine if a device is suitable to host a shared service.

Refer to the software and hardware product documentation posted on docs.oracle.com for a complete listing of all supported workstations, tablets, and device and their technical specifications.

Workstation Hardware

Compact Workstation 310 – Windows 10

The device supports the following shared services:

Service Name	Supported	Notes
Backup Check and Posting	Yes	
Backup Kitchen Display System Controller	Yes	
Check and Posting	Yes	
Cash Management	Yes	
Labor Management	Yes	
Table Management	Yes	
Kitchen Display System	Yes	
Oracle Payment Interface	Yes	
Print Controller	Yes	
Property Management System Interface	Yes	
Transaction Services	Yes	

The device supports the following maximums:

- Symphony POS Client
- Print Controller
- 1 Shared Service

Workstation 610 – Windows 8.1

The device supports the following shared services:

Service Name	Supported	Notes
Backup Check and Posting	Yes	
Backup Kitchen Display System Controller	Yes	
Check and Posting	Yes	
Cash Management	Yes	
Labor Management	Yes	
Table Management	Yes	
Kitchen Display System	Yes	
Oracle Payment Interface	Yes	
Print Controller	Yes	
Property Management System Interface	Yes	
Transaction Services	Yes	

The device supports the following maximums:

- Symphony POS Client
- Print Controller
- 1 Shared Service

Workstation 610 – Windows 10

The device supports the following shared services:

Service Name	Supported	Notes
Backup Check and Posting	Yes	
Backup Kitchen Display System Controller	Yes	
Check and Posting	Yes	
Cash Management	Yes	
Labor Management	Yes	
Table Management	Yes	
Kitchen Display System	Yes	
Oracle Payment Interface	Yes	
Print Controller	Yes	
Property Management System Interface	Yes	
Transaction Services	Yes	

The device supports the following maximums:

- Symphony POS Client
- Print Controller
- 1 Shared Service

Workstation 620 – Windows 10

The device supports the following shared services:

Service Name	Supported	Notes
Backup Check and Posting	Yes	
Backup Kitchen Display System Controller	Yes	
Check and Posting	Yes	
Cash Management	Yes	
Labor Management	Yes	
Table Management	Yes	
Kitchen Display System	Yes	
Oracle Payment Interface	Yes	Cannot be installed with other shared services
Print Controller	Yes	
Property Management System Interface	Yes	
Transaction Services	Yes	

The device supports the following maximums:

- Symphony POS Client
- Print Controller
- 2 Shared Services
 - OPI must be installed on a device without other shared services

Workstation 650 – Windows 10

The device supports the following shared services:

Service Name	Supported	Notes
Backup Check and Posting	Yes	
Backup Kitchen Display System Controller	Yes	
Check and Posting	Yes	
Cash Management	Yes	
Labor Management	Yes	
Table Management	Yes	
Kitchen Display System	Yes	
Oracle Payment Interface	Yes	
Print Controller	Yes	
Property Management System Interface	Yes	
Transaction Services	Yes	

The device supports the following maximums:

- Symphony POS Client

- Print Controller
- 3 Shared Services Maximum
 - OPI must be installed on a device without other shared services

Workstation 5a – POS Ready 2009

The device supports the following shared services:

Service Name	Supported	Notes
Backup Check and Posting	Yes	
Backup Kitchen Display System Controller	Yes	
Check and Posting	Yes	
Cash Management	No	
Labor Management	Yes	
Table Management	No	
Kitchen Display System	Yes	
Oracle Payment Interface	No	
Print Controller	Yes	
Property Management System Interface	Yes	
Transaction Services	Yes	

The device supports the following maximums:

- Symphony POS Client
- Print Controller
- 1 Shared Service

Workstation 5a – POS Ready 7

The device supports the following shared services:

Service Name	Supported	Notes
Backup Check and Posting	Yes	
Backup Kitchen Display System Controller	Yes	
Check and Posting	Yes	
Cash Management	No	
Labor Management	Yes	
Table Management	No	
Kitchen Display System	Yes	
Oracle Payment Interface	No	
Print Controller	Yes	
Property Management System Interface	Yes	
Transaction Services	Yes	

The device supports the following maximums:

- Symphony POS Client

- Print Controller
- 1 Shared Service

Tablet Hardware

Tablet 720 – Windows 8.1

The device supports the following shared services:

Service Name	Supported	Notes
Backup Check and Posting	No	
Backup Kitchen Display System Controller	No	
Check and Posting	Yes	
Cash Management	No	Single device locations only
Labor Management	Yes	
Table Management	No	
Kitchen Display System	No	
Oracle Payment Interface	No	
Print Controller	Yes	
Property Management System Interface	Yes	
Transaction Services	No	

The device supports the following maximums:

- Simphony POS Client
- Print Controller
- CAPS for single tablet property

Tablet 720 – Windows 10

The device supports the following shared services:

Service Name	Supported	Notes
Backup Check and Posting	No	
Backup Kitchen Display System Controller	No	
Check and Posting	Yes	
Cash Management	No	Single device locations only
Labor Management	Yes	
Table Management	No	
Kitchen Display System	No	
Oracle Payment Interface	No	
Print Controller	Yes	
Property Management System Interface	Yes	
Transaction Services	No	

The device supports the following maximums:

- Symphony POS Client
- Print Controller
- CAPS for single tablet property

Tablet e-Series 8 – Windows 8.1

The device supports the following shared services:

Service Name	Supported	Notes
Backup Check and Posting	No	
Backup Kitchen Display System Controller	No	
Check and Posting	Yes	Single device locations only
Cash Management	No	
Labor Management	Yes	
Table Management	No	
Kitchen Display System	No	
Oracle Payment Interface	No	
Print Controller	Yes	
Property Management System Interface	Yes	
Transaction Services	No	

The device supports the following maximums:

- Symphony POS Client
- Print Controller
- CAPS for single tablet property

Tablet e-Series 11 – Windows 10

The device supports the following shared services:

Service Name	Supported	Notes
Backup Check and Posting	Yes	Permanently mounted to workstation stand
Backup Kitchen Display System Controller	Yes	Permanently mounted to workstation stand
Check and Posting	Yes	Single device locations only, or permanently mounted to workstation stand
Cash Management	Yes	
Labor Management	Yes	
Table Management	Yes	
Kitchen Display System	Yes	Permanently mounted to workstation stand
Oracle Payment Interface	No	Permanently mounted to workstation stand
Print Controller	Yes	

Service Name	Supported	Notes
Property Management System Interface	Yes	
Transaction Services	Yes	Permanently mounted to workstation stand

The device supports the following maximums:

- Simphony POS Client
- Print Controller
- When used as a mobile device:
 - CAPS for single tablet property
- When used as a fixed workstation:
 - 1 shared service

Third Party – Android 4.4

- Simphony supports tablets running Android 4.4
- The Simphony documentation contains a list of validated tablets

The device supports the following shared services:

Service Name	Supported	Notes
Backup Check and Posting	No	
Backup Kitchen Display System Controller	No	
Check and Posting	No	
Cash Management	No	
Labor Management	No	
Table Management	No	
Kitchen Display System	No	
Oracle Payment Interface	No	
Print Controller	Yes	
Property Management System Interface	No	
Transaction Services	No	

The device supports the following maximums:

- Simphony POS Client
- Print Controller

Additional Devices

HP MP 9 – Windows 10

The device supports the following shared services:

Service Name	Supported	Notes
Backup Check and Posting	Yes	
Backup Kitchen Display System Controller	Yes	

Service Name	Supported	Notes
Check and Posting	Yes	
Cash Management	Yes	
Labor Management	Yes	
Table Management	Yes	
Kitchen Display System	Yes	
Oracle Payment Interface	Yes	
Print Controller	Yes	
Property Management System Interface	Yes	

The device supports the following maximums:

- Symphony POS Client
- Print Controller
- Any combination of shared services

HP RP5810 – Windows 10

The device supports the following shared services:

Service Name	Supported	Notes
Backup Check and Posting	Yes	
Backup Kitchen Display System Controller	Yes	
Check and Posting	Yes	
Cash Management	Yes	
Labor Management	Yes	
Table Management	Yes	
Kitchen Display System	Yes	
Oracle Payment Interface	Yes	
Print Controller	Yes	
Property Management System Interface	Yes	

The device supports the following maximums:

- Symphony POS Client
- Print Controller
- Any combination of shared services

Virtual Devices

All recommendations put forth herein regarding the resource requirements for hardware are applicable to virtualized environments as well as physical ones when current Virtualization technologies such as Oracle Virtualbox are used. Current technologies incur no real overhead cost, and therefore do not require separate consideration when choosing resource requirements.

6 Sizing Reference

Sites opting to use a distributed services deployment model must select the correct POS client hardware to run the shared services.

Non-OPI Shared Services

Use the following tables when selecting workstation hardware that will be used to run the Simphony POS client and one of the following a shared services:

- Backup Check and Posting
- Backup Kitchen Display System Controller
- Check and Posting
- Kitchen Display System Controller
- Transaction Services

Daily Transaction Volume

# Workstations	# Transactions (service rounds) per day						
	< 1000	< 2000	< 3000	< 4000	< 5000	< 6000	< 7000
1-3	1	2	2	3	3	4	4
4-6	1	1	2	2	3	3	3
7-20	1	1	2	2	3	3	3
21-30	1	1	2	3	3	3	4
31-40	1	1	2	3	3	4	4
41-60	1	1	2	3	3	4	4

1 = WS610 on Microsoft Windows 8.1 with 4GB RAM and 32 GB SSD

2 = WS610 on Microsoft Windows 10 with 4GB RAM and 64 GB SSD or CWS310 on Microsoft Windows 10 with 4GB RAM and 64 GB SSD

3 = WS620 on Microsoft Windows 10 with 8GB RAM and 128 GB SSD

4 = WS650 on Microsoft Windows 10 with 8GB RAM and 256 GB

Peak Transaction Volume

Use the following table to ensure the selected hardware is capable of handling a site's burst transaction requirements:

Workstation Model	Peak Transactions / Hour
WS 610 – Windows 8.1	85
CWS 310 – Windows 10	170
WS 610 – Windows 10	170
WS 620 – Windows 10	290
WS 650 – Windows 10	290

Oracle Payment Interface Sizing

Use the tables below when selecting hardware to run the Oracle Payment Interface.

Point of Sale Client Hardware

Use this table to select a workstation that will run the Simphony POS client and the Oracle Payment Interface.

NOTE: Workstation hardware running the Simphony POS client and OPI cannot host another other shared service. Dedicated shared service devices (e.g., the HP NP9) can run OPI and other services.

		# Credit Transactions Per Day						
		< 1000	< 2000	< 3000	< 4000	< 5000	< 6000	< 7000
# Workstations	1-3	1	2	2	3	3	4	4
	4-6	1	2	2	3	3	4	4
	7-20	2	2	3	3	4	4	4
	21-30	2	2	3	4	4	4	4
	31-40	2	2	3	4	4	4	4
	41-60	2	2	3	4	4	4	4

1 = WS610 on Microsoft Windows 8.1 with 4GB RAM and 32 GB SSD

2 = WS610 on Microsoft Windows 10 with 4GB RAM and 64 GB SSD or
CWS310 on Microsoft Windows 10 with 4GB RAM and 64 GB SSD

3 = WS620 on Microsoft Windows 10 with 8GB RAM and 128 GB SSD

4 = WS650 on Microsoft Windows 10 with 8GB RAM and 256 GB

Dedicated Oracle Payment Interface Host

Use the following specifications to assist with sizing a dedicated OPI device. The “transactions” count in this scenario is the number of credit card transactions. Only count transactions (service rounds) that include credit payment activity.

		Up to 60 POS Clients	
Peak Transaction Load	3600 / hour	Processor – Dual Core OS – Windows 8.1 / 10 / 2008 R2 / 2012 R2-64 bit RAM – 4GB Hard disk 200 GB	
		Processor – Dual Core OS – Windows 8.1 / 10 / 2008 R2 / 2012 R2-64 bit RAM – 8GB Hard disk 200 GB	