

Oracle® Hospitality Symphony First Edition
Transaction Services Overview and Troubleshooting
Version 1.x

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Date	Version/ Revision	Description/Reason for Changes
01/21/2011	1.0	Initial Version
10/20/2011	1.1	PostToTransaction
02/13/2012	1.5	GetTransaction request new parameters
02/28/2012	1.5	Added list of error code and user friendly message
03/09/2012	1.5	Added GetEmployee Extensions to GetConfigInfo Added new parameter EmployeeNumber to PostNewTransaction and PostToTransaction
03/30/2012	1.5	Added new Errors PreviousRoundItemFound PostingDiscountDetailNotSupported TipServiceChargeNotConfig
04/02/2012	1.5	Added new Errors InvalidAutoServiceCharge InvalidServiceChargeTaxClass
04/05/2012	1.5	Added new Errors InvalidTenderMedia ServiceTotalTenderMediaNotFound
04/06/2012	1.5	Added new Errors MissingTaxExemptReference
05/02/2012	1.5	Removed TenderTypeNotFound Added new Errors CreditCardPreambleNoMatchTender InitialCCAuthNotFound
05/22/2012	1.5	Added autofire information
06/13/2012	1.5	Added new Errors InvalidDeliveryTime MaximumAutofireChecksAllowed
07/11/2012	1.5	Check Journal Support
07/17/2012	1.5	Added NoDataFound error
08/07/2012	1.5	Added InvalidTenderMediaType error
8/30/2012	1.5	Added InvalidEGatewayConnectionURL InvalidLogZone
9/9/2013	1.5.501	Added MenuItemNotActiveOnMenuLevel
9/27/2013	1.6.0009	Added Order Type Order Device Routing support
4/11/2013	1.6.800.44	Updated Symphony Version Compatibility

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1 Introduction

The Transaction Services application is a web service that allows third party applications to retrieve POS data definitions (tender media, menu items, etc.) and create checks within a POS. Transaction Services is designed to handle fast transaction environments, so it has little to no functionality that makes it useful within a table-service environment.

2 Other Documents

Document Name	Comments
<i>Install Transaction Service.doc</i>	This document describes installing Transaction Services
<i>Transaction Services WSDL explanation.doc</i>	This document describes the Data Access WSDL document supported by Transaction Services.

3 Terminology

Web Service:

This is the application providing some set of services to a client. These two entities communicate over HTTP using a well-defined language known as a WSDL. For the purposes of this document, Transaction Services is a *Web Service*.

Web Service Consumer (WSC):

This is the client application taking advantage of the services provided by a *Web Service*.

Web Service Description Language (WSDL):

This is an XML language that defines communication between a web service consumer (client) and a web service (server).

Data Access:

This is the component of Transaction Services that allows data definitions to be exported from the Symphony system. Examples of data definitions exported include menu items and tenders.

Web Ordering:

This is the component of Transaction Services that allows a third party application acting as a web service consumer to create checks within the Symphony system.

4 Security

Transaction Services does not have encryption or any other security mechanisms built into it. If a customer wishes to secure the Transaction Services web service, we advise that the customer configure SSL on the server. We offer no guidelines or assistance on SSL setup.

5 Licensing

Every WSC utilizing Transaction Services should be licensed. WSCs are licensed as workstation clients. Note that WSCs are configured as POSAPI or Workstation clients in EMC.

It is important to note that every WSC should be acting as a different POSAPI client. Some customers may attempt to use the same POSAPI client profile among several WSCs, but this is not a valid configuration. In such a configuration, the WSCs may experience *random* failures because Transaction Services cannot create checks using the same POSAPI client profile to open and close multiple checks at the same time.

6 Installation/Deployment

6.1 Location

Transaction Services needs to be installed separately from the Symphony application. It can be installed on the machine where WSC is running or on different machine/server. Each instance of Transaction service is linked to a workstation id, thus for each WSC, transaction services needs to be installed separately.

The location of the database server is of no consequence because all access to the database is funneled through the Symphony application.

6.2 Version Compatibility

Transaction Services must be installed with a compatible version of Symphony 1.x.

Compatible versions:

- Symphony v1.6 MR8

6.3 Installation

Transaction service can be installed using a setup file. The setup file creates a virtual directory TSWebservice on the selected website.

Run the setup file to install Transaction Services. Refer to *Install Transaction Service.doc*

6.4 Initial Configuration

After Transaction a service has been installed, the web.config file needs to be updated. After updating web.config file, run TSConfig.exe to generate token id and necessary registry key in the registry.

6.4.1 web.config file

The web.config file can be found in directory *C:\inetpub\wwwroot\TSWebService*. The fields in the web.config file needs to be updated after Transaction service has been successfully installed. Some of the fields are populated by default. Below is the list of keys in this file.

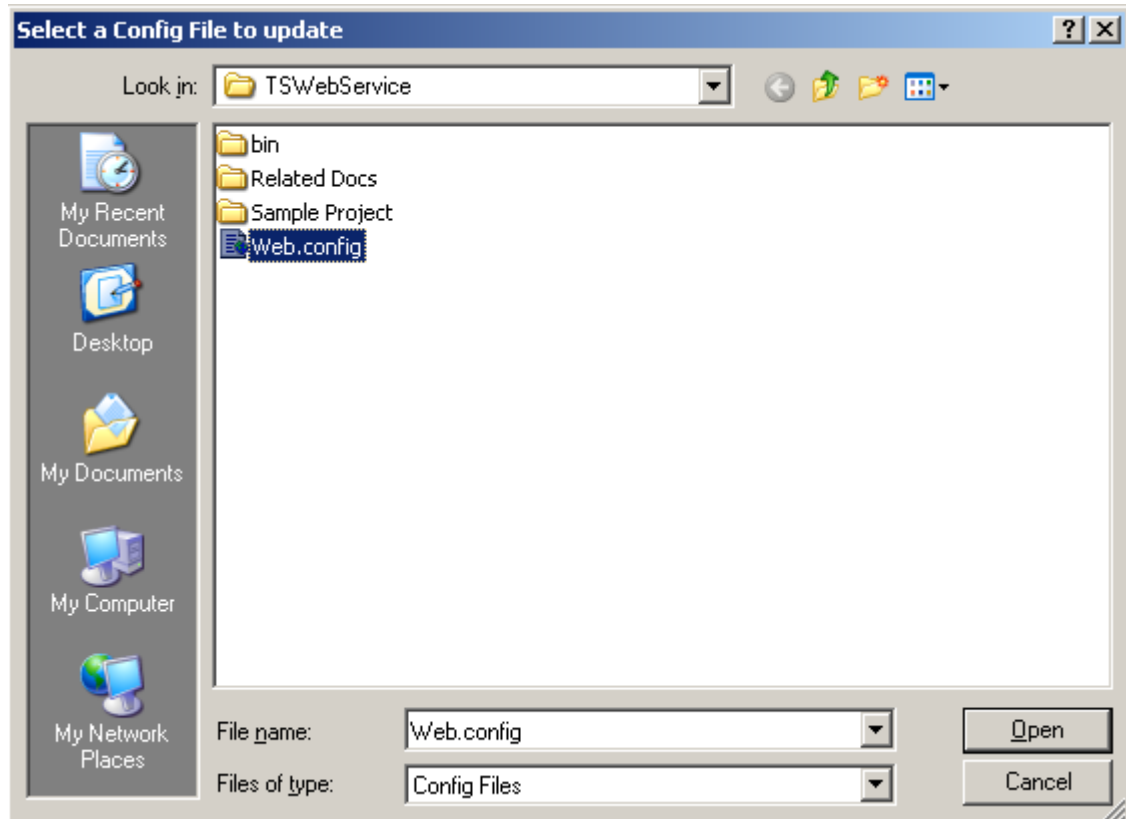
- LogFileDirectory
This value in this contain indicates the directory where the log file will be created. A log file named *Transaction Services.log* will be created under this directory. This is filled with default value *C:\Logs*.

- TSWebService1_0
This key indicates the verbosity level for logging in TSWebService zone.
- TSOps
This key indicates the verbosity level for logging in TSOps zone.
- WSIId
This key indicates the workstation id. Change the value with the *Workstation ID* to be used. Workstation id can be obtained from EMC Workstation module.
- DefaultDBRefreshInterval
This key indicates the default database refresh rate to download the datastore. It is filled with default value of *30 minutes* and can be changed as required.
- BaseDirectory
This key indicates the base directory to download datastore. The default datastore location is *C:\TSDataStore* and can be changed as required.
- EmployeeObjId
This key indicates the employee id. Change the value with the *Employee object number* to be used. Employee object number can be obtained from EMC Employee maintenance module.
- DefaultServiceTotalTender
This key indicates the default tender media. Change the value with the *Tender media number* to be used. Tender media number can be obtained from EMC Tender Media module (Number field). Note that the default tender media number is used for internal processing only.
- ActiveHostIpAddress
This key indicates the host url. Change the value with the *host EGateway url*
- DisplayMissingStringID
This key is a Boolean option whether to display the string id value which could not be found in datastore or not.
- TokenId
This key value pair gets generated by a tool *TSConfig.exe*. This field indicates that the client has been authenticated against server.
- SupportServiceTotal
This key boolean value is a control option to switch on or off for the permission to Post Transaction with or without payment.

6.4.2 Authenticate client

The client needs to be authenticated using TSConfig.exe tool which can be found in directory C:\inetpub\wwwroot\TSWebService\bin) tool.

Run TSConfig.exe. Select the web.config file in C:\inetpub\wwwroot\TSWebService directory.



On the Transaction Service Configuration window, enter the installer username and password and click Get/Update security credentials. The installer username and password can be obtained from EMC (Property Parameters module).

The image shows a Windows-style application window titled "Transaction Service Configuration". It has a menu bar with "File" and a "Security" tab selected. The main area contains two status fields: "Security Configuration Status" with the text "Security credentials not present", and "Security Configuration Update Status" which is an empty box. To the right of these are two input fields: "Installer User Name" containing "12345" and "Installer Password" containing "09876". At the bottom right are two buttons: "Get/Update Security Credentials" and "Stop Update".

Transaction Service Configuration	
File	
Security	
Security Configuration Status	
Security credentials not present	
Security Configuration Update Status	
Installer User Name	
12345	
Installer Password	
09876	
Get/Update Security Credentials	
Stop Update	

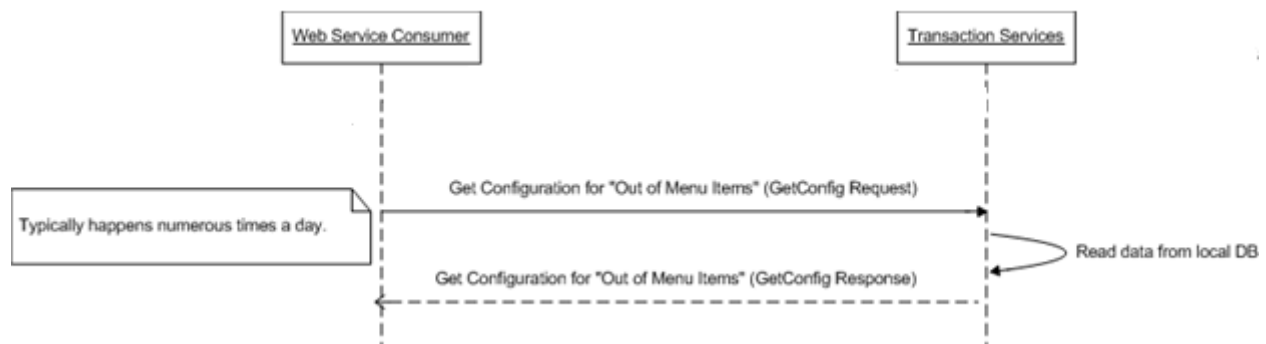
TSConfig.exe generates the token id field in the web.config file. This utility also creates the registry keys Userdata and UserdataXXX (XXX being workstation id) in HKLM\Software\MICROS

7 Transaction Services Components

7.1 Data Access

The Data Access portion of Transaction Services allows WSCs to retrieve record definitions from Symphony. Data Access retrieves information on menu items, modifiers, service charges, tenders, general parameters, order types, discounts and out of menu item.

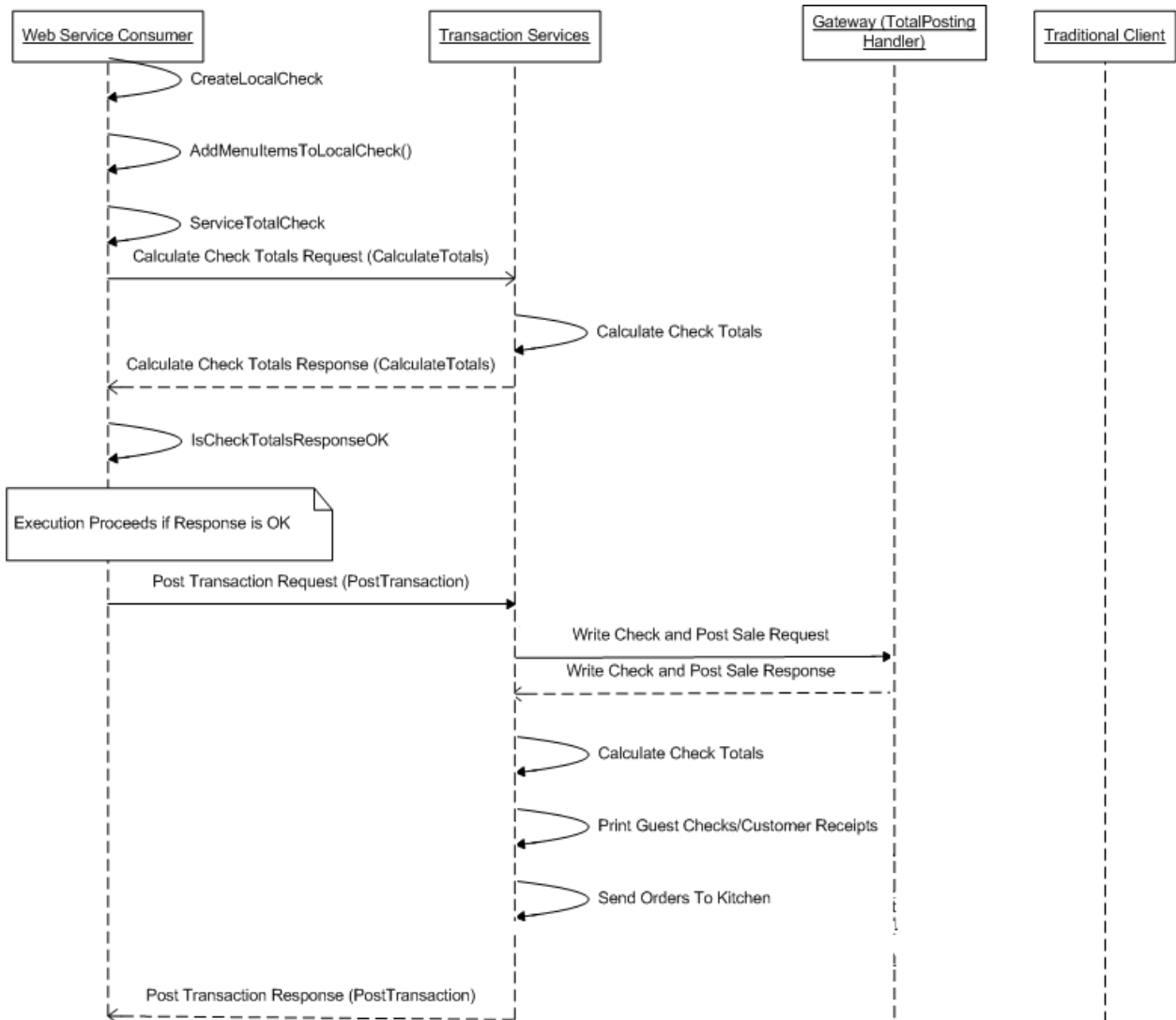
The following diagram shows the flow how a WSC can run for GetConfigInfo



7.2 Web Ordering

The Web Ordering portion of Transaction Services allows WSCs to calculate check totals, post transactions (create checks) within Symphony. Web Order can create open checks and closed checks, but it cannot pickup or split checks.

The following diagram does not dictate exactly how messages will flow back and forth between the Transaction Services Web Service and the web service consumer (i.e. a kiosk). It simply indicates the message flows that are *likely* to happen. The actions taken by Transaction Services as depicted in the diagram are in the correct order.



8 WSDL Overviews

Detail explanation of wsdl file can be found in *Configure Transaction Service.doc*

8.1 Data Access

The methods that are exposed by Transaction services are

8.1.1 GetConfigInfo:

GetConfigInfo returns Configuration Information based on Configuration request.

Configuration information contains

1. Modifier (Condiment) Definitions
Retrieves modifier definitions for a given RVC within Symphony
2. Menu Item Definitions
Retrieves menu item configuration for a given RVC within Symphony
3. Out of Menu Item Definitions
Retrieves out of menu item configuration for a given RVC within Symphony
4. Menu Item Class
Retrieves menu item class configuration from Symphony
5. Menu Item Price
Retrieves menu item price configuration from Symphony
6. Menu Item SLU
Retrieves menu item screen lookup configuration from Symphony
7. Menu Levels
Retrieves menu item level configuration from Symphony
8. Service Charge Definitions
Retrieves service charge configuration from Symphony
9. Discount Promotion Definitions
Retrieves Discount configuration from Symphony
10. Tender Definition
Retrieves tender media configuration from Symphony
11. Order Type Definitions

Retrieves order type configuration from Symphony

12. Language Definitions

Retrieves Language configuration from Symphony

13. General Parameter Definitions.

Retrieves general parameter configuration from Symphony

14. Revenue Centers

Retrieves revenue centers configuration from Symphony

15. Family Group

Retrieves family group configuration from Symphony

16. Major Group

Retrieves major group configuration from Symphony

17. Exmployee

Retrieves employee(s) information from Symphony

8.1.2 PingServer

PingServer returns the state of the Egateway and the database server. This method can be used if the server is up or not.

8.1.3 GetTransaction

This message retrieves a list of open or closed checks for a given set of parameters.

If optional parameter check GUID is specific, this message will retrieve the specific check with the given check GUID.

If check GUID is provided with other search criteria such as table number or employee number, but the matching check does not have the same information as the search criteria, data mismatch errors will be returned in the response message.

8.2 Web Ordering

The Web Ordering component of Transaction Services allows a third party application acting as a web service consumer to create checks within the Symphony system.

8.2.1 CalculateTotals

Given a set of check details, this web method calculates the various check totals.

8.2.2 PostNewTransaction

Given a set of check details, this web method will create a check in Symphony, send menu items to order devices, authorize credit card payment, and perform any other POS operations as dictated by POS configuration.

The posted check will be log and be able to access through PMC report, Check Journal Report.

8.2.3 PostToTransaction

Allow multiple service rounds for adding menu items and check detail items to existing open checks.

The posted check will be log and be able to access through PMC report, Check Journal Report.

8.3 Error Codes

This list contains all possible errors that Transaction Service may returns. Error may returns along a user friendly message that tries to explain the problem, or solution to correct the problem.

Error Code	Message
ApplInitInProgress	
CCAuthDeclined	Credit card authorization declined.
CCAuthDeclinedWithMessage	Credit card authorization declined with a message '<message>'.
CCServerDown	Processing of the request has failed.
CheckEmployeeNumberMismatch	Check <check_number> {<check_guid>} returned with Employee Number <check_employee_number> which does not match search criteria Employee Number <search_employee_number>.
CheckNotFound	Check Not Found. Property=<property_object_number> RVC=<revenue_center_object_number> Workstation=<ts_workstaion_id> Check GUID=<search_check_guid> Closed Days=<search_checks_closed_for_n_days> Table=<search_table_number> Employee=<search_employee_number> Check Status=<check_close_status_code>
CheckOpenedOnSystem	
CheckTableNumberMismatch	Check <check_number> {<check_guid>} returned with Table Number <check_table_number> which does not match search criteria Table Number <search_table_number>.
ConnectionDown	Processing of the request has failed.
CreditCardPreambleNoMatchTender	Credit Card Number does not match any tender media preamble configuration.
DataOutOfRange	Data out of range. Data <data_name> holds up to <max_range>.

	found <exact_range>.
DetailDoesNotSupportTriggeredEvents	
DuplicateLineNumber	
EGatewayClientStartError	Start EGateway client failed. Reason:
EGatewayClientStopError	Stop EGateway client failed. Reason: <egw_error_code>
EGatewayConnectionError	EGateway connection Error. Reason: <egw_error_code>
EGatewayConnectionNotInPool	EGateway connection does not exist in the connection pool. URL: <egw_url>
EGatewayWaitConnectionTimeout	Wait for new connection timed out. URL: <egw_url> Timeout: <timeout> seconds
EmployeeClockIOStatusMismatch EmployeeIDMismatch EmployeeRVCMismatch	Employee <employee_last_name>, <employee_last_name>(<employee_number>) returned with <returned_employee_data> which does not match search criteria <searching_data>.
EmployeeNotFound	Employee not found. Property=<property_object_number> RVC=<revenue_center_object_number> WS=<ts_workstaion_id> ID=<employee_id> Employee=<employee_number> Clocked=<clocked_status>
FailedDataStoreInitialization	Application failed to initialize its local database.
FailedErrorTranslationInitial	Failed translation initialization. Reason: <error_info>
FailedPostCARrequest	Failed to acquire CA authorization.
FailedInitialization	Application has failed to start.
FailedLoggerInitialization	Application has failed to initialize logger instance.
FailedSecurityAPIInitialization	Failed to initialize Security API. Error: <security_api_error>
InitialCCAuthNotFound	Initial credit card authorization not found. Account Last 4 Digits:<last_4_digits_of_initial_authorization_credit_card_number> Initial Credit Card Authorization Detail Line Number:<initial_credit_authorization_detail_line_number>
InvalidArguments	Invalid arguments. <procedure_name> Expect: <expected_arg_list> Actual: <actual_arg_list>
InvalidAutoServiceCharge	Invalid automatic service charge object number <invalid_service_charge_object_number> for RVC:

	<revenue_center_object_number> - <revenue_center_name>.
FailedSubmitPrintJob	Failed to submit print job. Error: <printing_controller_error_code> Guid: <print_job_guid>
InternalCommunicationError	
InternalProcessingError	Processing of the request has failed.
InvaliidAuthCode	Processing of the request has failed.
InvalidCreditCardExpirationDate	An invalid credit card expiration date has been entered.
InvalidCreditCardHost	Processing of the request has failed.
InvalidCreditCardNumber	An invalid credit card number has been entered.
InvalidClientName	An invalid request has been made.
InvalidClosedDays	
InvalidConfigInfoRequestType	
InvalidConfigInfoType	An invalid request has been made.
InvalidCustomerInfo	
InvalidDeliveryTime	
InvalidDetailLine	An invalid request has been made.
InvalidDetailLineType	An invalid request has been made.
InvalidEGatewayConnectionURL	Invalid EGateway URL. URL: <config_url>
InvalidEmployeeNumber	
InvalidGuestCount	
InvalidLineNumber	
InvalidLogZone	Invalid Log Zone.
InvalidMenuItemPrice	
InvalidOrderTypeNumber	
InvalidPropertyNum	An invalid request has been made.
InvalidRvcNum	An invalid request has been made.
InvalidServingPeriod	
InvalidServiceChargeTaxClass	Invalid service charge tax class object number <invalid_tax_class_object_number>. Property: <property_object_number> - <property_name> RVC: <revenue_center_object_number> - <revenue_center_name> Service Charge: <service_charge_object_number> - <service_charge_name>
InvalidTableNumber	
InvalidTenderMedia	Invalid tender media object number <tender_media_object_number> for Property: <property_object_number> - <property_name>.
InvalidTenderMediaType	Invalid tender media type.
InvalidTranslationSpecifier	
MaximumAutofireChecksAllowed	
MenuItemNotActiveOnMenuLevel	Menu Item Definition is not active on Check Detail Item Menu Level. Object Number=<menu_item_definition_object_number>

	Sequence Number=<menu_item_definition_sequence_number> Definition Active Main Levels=<definition_active_main_levels> Definition Active Sub Levels=<definition_active_sub_levels> Detail Item Line Number=<check_detail_line_number> Detail Item Main Level=<check_detail_main_level> Detail Item Sub Level=<check_detail_sub_level>
MissingDetailLinesElement	
MissingTransactionElement	
MissingTransactionHeaderElement	
MissingTaxExemptReference	Tender detail item at position <detail_line_number>, with ID/object number <tender_media_object_number>, has tax exemption applied, and is missing required tax exemption reference information.
NoDataFound	No data returned.
NoRequestHeader	
NotImplemented	<procedure_name> not Implemented.
NullInput	
PaidPartially	
PostingDiscountDetailNotSupported	Discount detail posting not supported.
PreviousRoundItemFound	Previous round <detail_item_type>(<detail_id>) detail item found.
PriceMenuItemWithZeroAmount	
SecurityInitFailed	
ServiceTotalTenderMediaNotFound	No service total tender media configured for Property: <property_object_number> - <property_name>.
Success	Successful
TipServiceChargeNotConfig	Charged tip service charge not configured.
TransactionEmployeeNotFound	Transaction employee <employee_number> not Found.
TranslationFileNotAvailable	An invalid request has been made.
UnhandledException	An unexpected error has occurred.
UnknownCreditCardType	Unknown credit card type found in payment method.

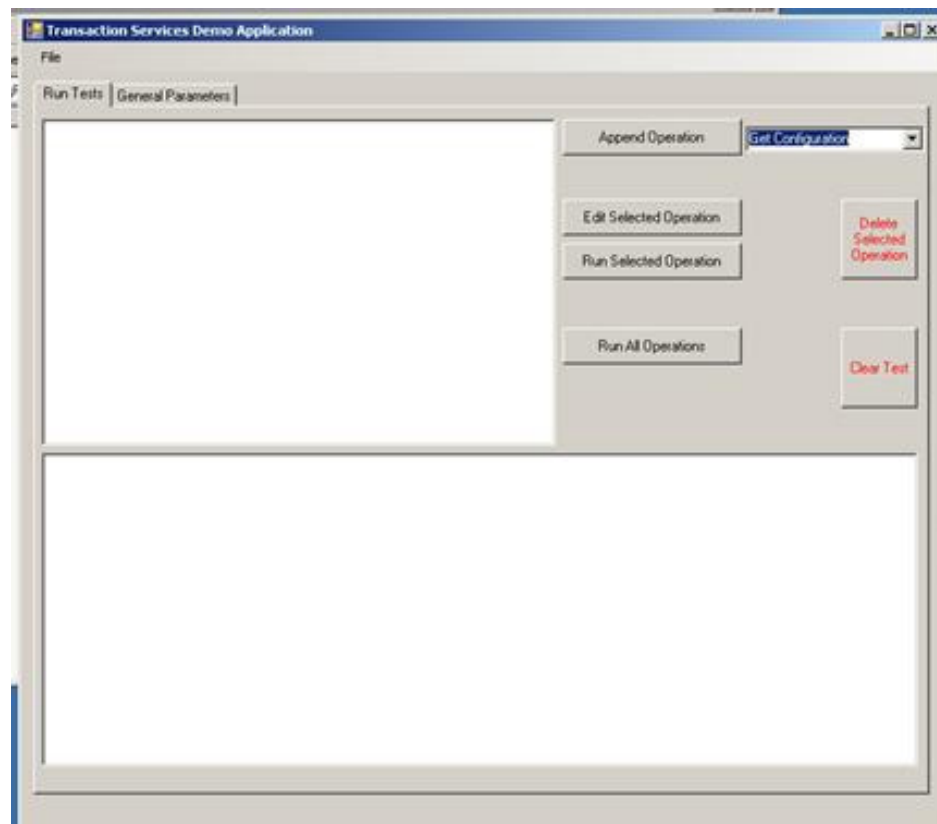
9 Demo Application

The demo application is a useful, but not necessary, part of the Transaction Services application. It is useful for demonstrations and testing purposes. Transaction Services demo client can be run to call the web methods CalculateTotals, GetConfigInfo, GetTransaction, PingServer, PostNewTransaction and PostToTransaction. If the demo application does not function on a customer's property, it does not necessarily mean that a customer's application will fail to post transactions to Symphony.

The Demo client application with source get gets installed in the directory
C:\Inetpub\wwwroot\TSWebService\Sample Project.

9.1 GetConfigInfo using Demo Client Application

1. Select Get Configuration the dropdownlist in the Transaction Service Demo Application



2. On Get Configuration Window, change the revenue center Number field with the Revenue center number and Click Save.

GetConfiguration Configuration

Workstation Number: 1 Interface Version: 1

Property Number: 1 Revenue Center Number: 1

Language IDs

	Language ID
▶	1
*	

Information Type

	Information Type
*	

Get Employee(s)

☐ Yes ☒ No

Employee ID:

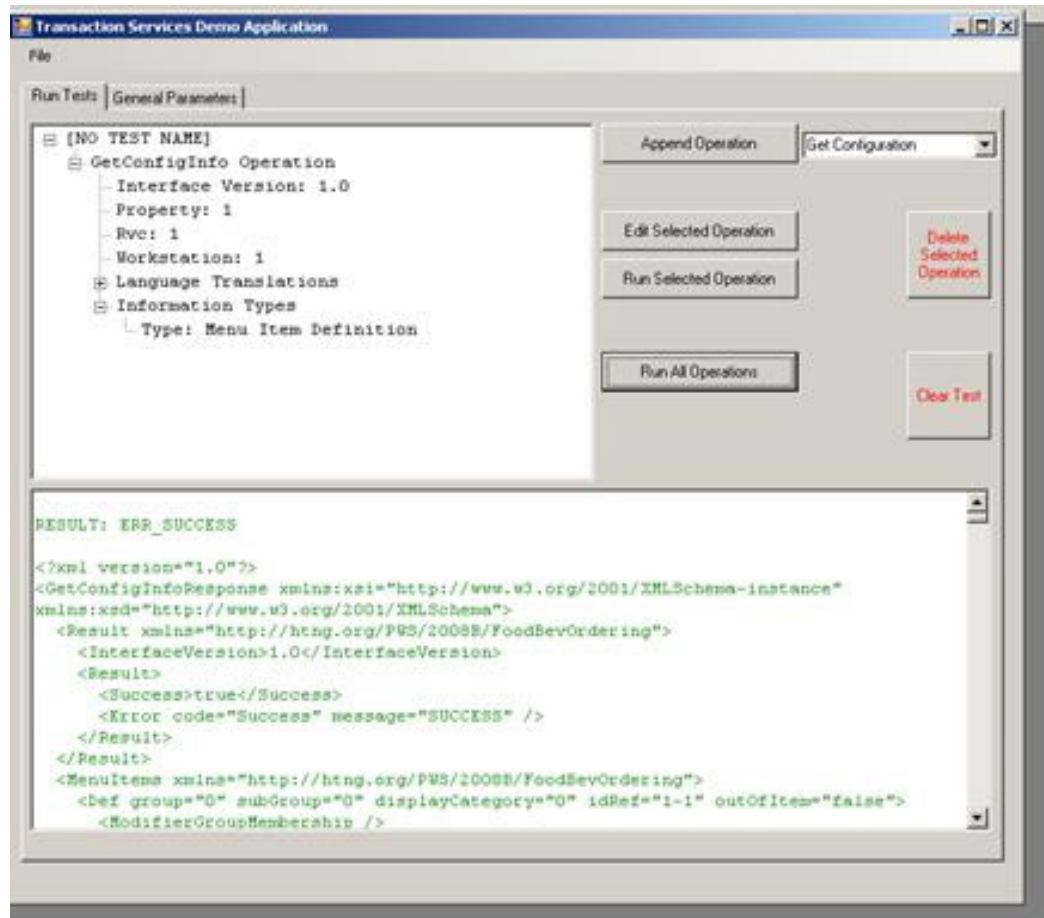
Employee Number:

Clock Status

☒ Clock In ☐ Clock Out

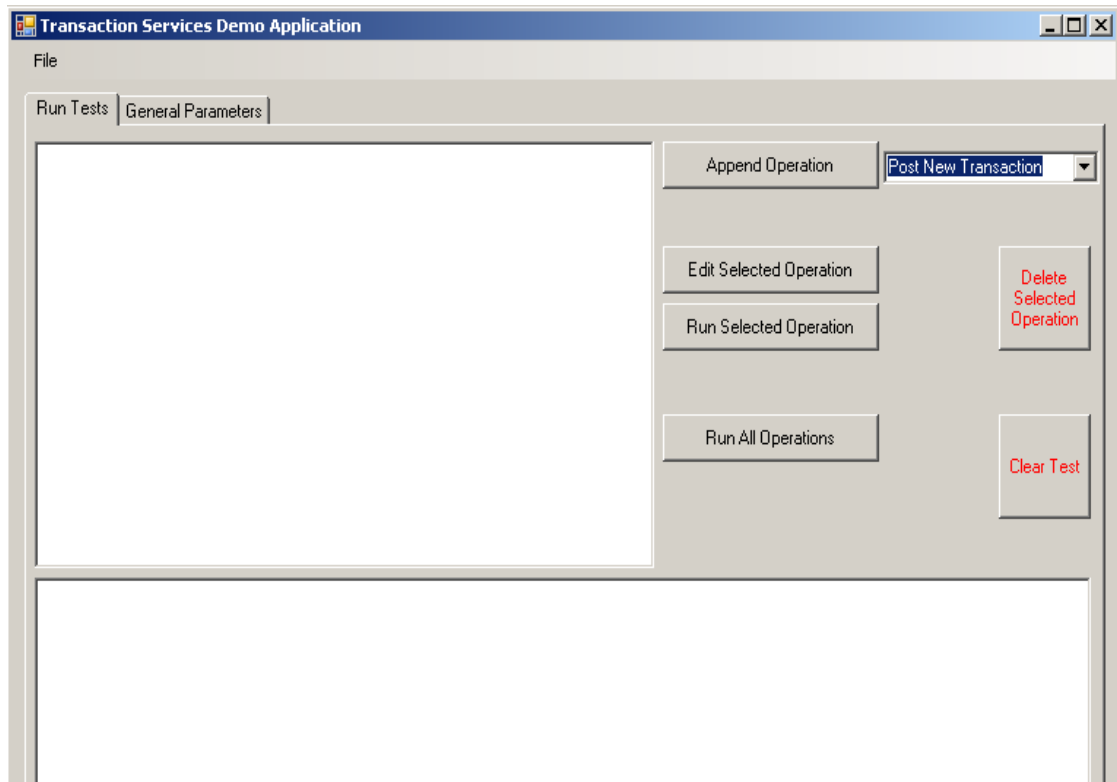
Save Cancel

3. On Transaction Service Demo Application window, Click Run All Operations



9.2 PostNewTransaction using Demo Client Application

1. Select Post New Transaction from the dropdownlist in the Transaction Service Demo Application



2. Click Append Operation. This will open the Post New Transaction Configuration window
3. To add a menu item, select Menu Item from the dropdownlist in the Post New Transaction Configuration window then Click Add Detail. This will open Menu Item Edit Window

Post New TransactionConfiguration

Property Number: 1 Revenue Center Number: 1

Workstation Number: 1 Interface Version: 1.0

Employee Number:

Serving Period: Table Number: 1

Order Type: 0 Guest Count: 0

Check ID:
 ☒ Do not use
 ☐ Auto generate
 ☐ Specify ID
 ID:

Check Details: Delivery Guest Info

Check Details: Check Details

Menu Item(s)

Tender Media

Employee(s)

Add Detail

Edit Selected Detail

Delete Selected Detail

Save Cancel

4. Enter the Object Number that matches a menu item in database. Click Save on Menu Item Edit Window

Menu Item Edit

Menu Item Name (not part of message)

Object Number: 1

Sequence Number: 1

Main Level: 1

Sub Level: 1

Quantity: 1

Price: 1.00

Service Round: 0

Line Number: 1

Void Info

Service Round:

LineNumber:

References

	Reference Text
*	

Save Cancel

5. To add a Tender, select Tender from the dropdownlist in the Post New Transaction Configuration window then click Add Detail

For Cash operations,

- enter the Tender object number (2 in sample database)
- enter line number as 2
- enter the price
- Select radio button Don't Send EPayment.

For Credit Card Transaction,

- enter the Tender object number (3 in sample database)
- enter line number as 2
- enter the price
- Select radio button Send EPayment.

Tender Media Detail Edit

Object Number 2	Currency Number 0
Quantity 1	Amount 1.00
Service Round 0	Line Number 2
Tip Amount 2.00	Auth Code

Room Info

Credit Card Information

Account Number: 4444333322221111

Exp Date: 0312

Track2 Data

Account Data Source: M Chip Data

Send EPayment (Selected)

Don't Send EPayment

CVV Number

AVS Number

Void Information

Service Round

Void Line Number

Triggered Events

Event Type	Action

Edit Add Delete

References

Reference Text
*

Save Cancel

6. Click Save on Tender Media Detail Edit Window
7. Click Save on Menu Item Edit Window
8. For autofire checks, defines time to fire under the Delivery tab.

Post New TransactionConfiguration

Property Number: 1 Revenue Center Number: 1

Workstation Number: 31 Interface Version: 1.0

Employee Number:

Serving Period: Table Number: 1

Order Type: 0 Guest Count: 0

Check ID:
☒ Do not use
☐ Auto generate
☐ Specify ID

Check Details Delivery Guest Info

Delivery Date / Time (UTC) : Current UTC Time is 5/22/2012 12:37:03 PM

May, 2012						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
29	30	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	1	2
3	4	5	6	7	8	9

Hour (0-23): 0

Minutes (0-59): 0

☒ Specify Delivery Date and Time

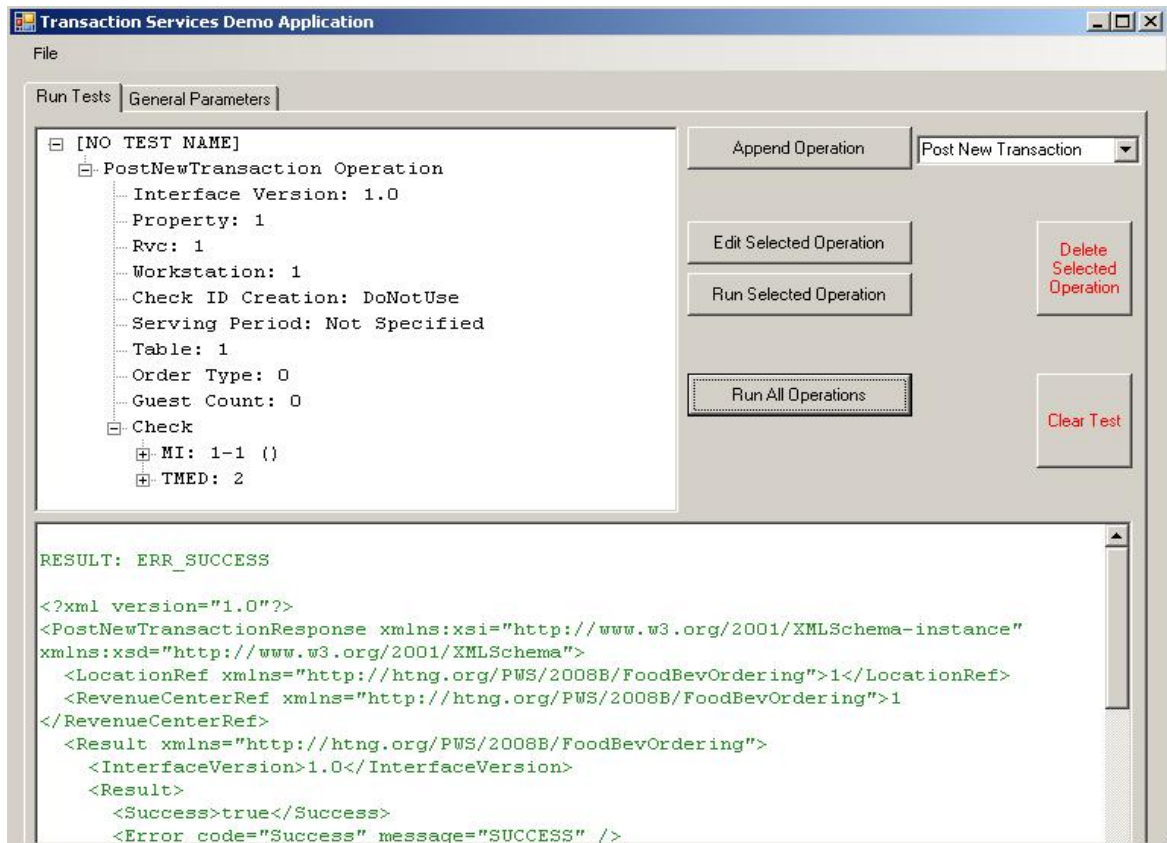
Today: 5/22/2012

Save Cancel

9.

10. Click Save on Post New Transaction Configuration window

11. On Transaction Service Demo Application window, Click Run All Operations



9.3 Post Requests to different Transaction Services

It is possible to post requests to multiple Transaction Services which have different URLs. In order to do that the target URL has to be updated under General Parameters tab. By changing this target URL, Demo Client will then able to post requests to a different Transaction Service.

Transaction Services Demo Application

File

Run Tests General Parameters

Target

Timeout(Second)

Apply

10 Limitations

10.1 Limited Check Operations

Transaction Services cannot pickup checks, adjust closed checks, reopen checks or split checks. Essentially, once Transaction Services has open and closed a check, Transaction Services no longer has access to the check.

10.2 No Support for PMS

Transaction Services does not support room charges or PMS-like payments

10.3 No Support for Stored Value cards

Transaction Services does not support stored value card payments

10.4 No offline mode support

Transaction services do not operate while disconnected from the data center. Though workstation clients and other components on property operate while offline from the datacenter, Transaction Services does not do so.

10.5 Limited to single workstation and single revenue center

Transaction services do not handle request that has different workstation ID or revenue center ID information other than the configured workstation and the revenue center assigned to this workstation. The reason is that Transaction Service only downloads data belongs to the revenue center of the configured workstation. A request that belongs to another workstation or revenue center would result in error that explains the data does not found.

10.6 No multiple workstations or multiple revenue centers

Transaction services do not support multiple workstations settings at the same time, or multiple revenue centers. However, it is possible to configure another instance of Transaction Service on the same computer to use another workstation and assign a different revenue center

11 Troubleshooting

11.1 Logging

11.1.1 Location of Logs

Transaction Services is typically installed in a location like “C:\Logs”. Transaction Services logs the incoming and outgoing SOAP messages. This is very useful in determine what the WSCs are sending and receiving.

11.2 Common Problems and their Solutions

11.2.1 Application failed to initialize its local database.

This error message indicates that Transaction service was not able to download the local datastore. The reasons for this error message could be Transaction Service could not communicate with Egateway server or frequent network disruption. Most of the times, this is resolved by an iisreset on the Transaction service machine. If iisreset does not fix this problem, check the network settings and make sure that Transaction service can communicate with Egateway server and wait for the DefaultDBRefreshInterval time set in web.config file.

11.2.2 Error: Encryption Key Not Found.

The customer has not run TSConfig.exe or deleted the token id field is missing in web.config file. To resolve this issue, re-run TSConfig.exe.

11.2.3 Error: Failed to encrypt credit card data.

This error method is returned when Transaction service fails to encrypt the credit card data. This occurs in the early processing of credit card. The main reason for this is REGREAD_ERROR, which means the Network service user or ASP.NET user has no permission to registry keys userdata and/or userdataXXX (XXX being workstation id). To resolve this, re-run TSConfig.exe

11.2.4 Error: Authorization Failed.

This error message is returned in a Credit card transaction when Transaction service was able to communicate with Credit card service host but did not receive an auth code. Check if the system running as credit card service host can communicate with the credit card processing company.

11.2.5 Common error messages due to incorrect Requests

Some of the common error messages returned due to incorrect request object received are:

- Invalid 'LineNumber' in check detail
Line numbers should be unique and incremented for each detail item
- Failed to create check. Check was not paid in full
The check was not paid in full. Transaction service cannot leave the check open and the checks need to be paid in full when opened.
- Could not create MenuItemDetail from Object.
The menu item could not be found for the menu item object number sent to Transaction service.
- Invalid 'PriceLevelIDRef' in menu item detail
The price level are not defined in EMC for this menu item.

11.2.6 Why don't I see the wsdl file when I request wsdl

For a web service, any WSC can request a wsdl through the browser by browsing to http://localhost:8080/TSWebservice/TSWebservice_1_0.asmx?wsdl. But this version of Transaction service does not returned a well formed wsdl as a normal web service would return because the software was built by reverse engineering using wsdl.exe command to generate the server side stub/code using the existing wsdl file. WSC can refer to the SOAP xml messages by clicking on each web method or refer to *Configure Transaction Service.doc*