



The Power Of **Epos** at your Finger Tips

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Comtrex Third Party Ordering

Interface Specification

Version 1.0.0.49

1.0 Introduction

The Comtrex Third Party Ordering Interface is a gateway and methodology designed to facilitate injecting orders into the Comtrex POS System by remote ordering system vendors. This is a technical document for use by vendors of ordering systems.

Vendors may access the Comtrex Third Party Ordering Interface either through the InetOrder.DLL, or through a TCP/IP connection to the Comtrex Internet Ordering Service. The TCP/IP service is the only method supported for future developments. The DLL method required some vendor software to be resident on the Comtrex POS local network to receive remote orders, and then pass these orders on to the Comtrex INetOrder.DLL. The DLL will inject the received orders into the local Comtrex POS database for later processing.

The Online Ordering TCP/IP interface is a windows service that listens for incoming TCP/IP messages from Online Ordering Vendors and passes these orders directly to the INetOrder.DLL for processing. Responses from INetOrder.dll are passed back to the Vendor. In essence this TCP/IP interface is an in store bridge between the upstream Vendor and the in store INetOrder.DLL. This TCP/IP interface allows Online Ordering Vendors to send orders to the store without having to place any Vendor software on the store server.

All messaging requests and responses are in XML format.

1.0.1 Process Overview

The Comtrex Internet Ordering Interface provides a menu sync XML that allows the remote internet ordering vendor to dynamically create an online menu for the restaurant, or to check the current pricing for an existing online menu. The POS2100 has lists of items that may be selected for inclusion into the menu sync XML. When a list is programmed by the Odyssey BackOffice programming module to be a 'Kiosk' list, all of the list items are included in the menu sync XML. Lists usually contain like items, such as 'Appetizers', 'Soups', 'Sandwiches', 'Beverages', 'Potato Toppings', 'Salad Dressings', etc.. These lists will contain menu items or ingredient (condiments) items. The ingredients will be nested to provide many layers of selection. Identical ingredient lists may be repeated in the XML for different items. A 'Steak' menu item and a 'Fish' menu item may both allow a 'Baked Potato' as a side, and in both cases, a 'Potato Toppings' ingredient item list would follow the 'Baked Potato' ingredient. This repetition makes dynamic menu creation easier for the vendor. This list is required in order that orders sent to the system utilize the proper numbering system.

When a new order request is received by the Comtrex Internet Ordering Interface, the new order XML is parsed and placed into temporary tables in the POS2100 database. The order will be printed at this time if the 'Printer Group' parameter in the vendor parameters section has an active printer group assigned. The order remains dormant until a cancel order request for this order is received, or the trigger time for the order is reached. If a cancel order request is received, the order is removed from the database tables. One of the POS terminals is periodically monitoring the temporary database tables where new orders are stored, and checking the order trigger time against the actual time of day. Once the trigger time is reached, the order is removed from the temporary database tables and placed into the active POS database tables. At this time requisition printing is also initiated. Normal processing of the order will continue from this point. Typically the customer name will be displayed on the POS2100 terminal guest check list. This will make it easy for the cashier to quickly find the correct order when the customer arrives to pick up the order. If the order is slated for delivery, the order will be transferred to a delivery driver, street maps and directions may be printed, and the order will be on its way.

A received order is either paid or not paid. If not paid, then the POS will close the order out in the normal manner. Orders which are not paid may be changed/modified using the normal functionality of the POS. A paid order may not be modified either through changes or additions. Regardless of the payment method through <PaymentType>, all payments rendered through the on-line interface will be recorded through a single parameter-driven media on the POS. The total behind this single media can be used to balance all payments accepted through the on-line interface. If the on-line interface accepts several forms of payment, these must be reconciled outside of the scope of the in-house POS system.

Pricing charged for items is totally driven by the on-line ordering system, overriding all programming on the POS system, since payment might be accepted on-line and any difference would cause an unacceptable imbalance. On the other hand, all descriptors sent by the on-line interface are for reference only. All descriptors printed and displayed will be from the in-store database, using the <ItemNumber> field as a lookup reference.

Received orders are balanced as the sum of <AmountEach> fields, with tax calculated using the in-store database of itemizers, against the <PaymentAmount> if the order is sent as paid. Balance must be within \$.05., with any difference to "rounding".

2.0 Interface methods – TCP/IP and DLL

2.1 INetOrderService.exe TCP/IP Windows Service

2.1.1 Description:

INetOrderService.exe is a Windows service operating independently as a HTTP Web Service. The payload will be raw XML as described in this document.

2.1.2 Requirements:

Windows XP, 7
Windows Server 2003, 2008
POSReady

Comtrex POS System

2.1.3 Ports:

This service listens on port 6788.

2.1.4 Installation:

Please visit the following link for a full description of the installation process, and a link to the actual installation files.
<http://howitworks.comtrex.com/OnlineOrdering>

2.1.5 Registry:

```
[HKEY_LOCAL_MACHINE\SOFTWARE\Comtrex Systems\INetOrderService]
"HoursToRetainXML"="120"
"LastDailyMaintenanceDay"="1 to 31"
"ListenPort"="6788"
"NextFileNumber"="1 to 999999"
"LogFlag"="6ffffff"
```

2.1.6 Logging:

The log file name is "INetOrderServiceXX.txt" where XX is the current day of the month.
The default path is currently "C:\Program Files\Comtrex Systems\INetOrderService\LogFiles".

2.1.7 Functionality:

This service will invoke the INetOrder.DLL and pass the received XML packets to the DLL. The DLL will then complete the requested operation, and return a XML response to the calling process.

The Online Ordering TCPIP interface is a web service that listens for incoming TCPIP messages from Online Ordering Vendors and passes these orders directly to the INetOrder.DLL for processing. Responses from INetOrder.dll are passed back to the Vendor. In essence this TCPIP interface is an in store bridge between the upstream Vendor and the in store INetOrder.DLL. This TCPIP web service allows Online Ordering Vendors to send orders to the store without having to place any Vendor software on the store server.

2.1.7.1 Operations Supported:

Menu Sync:

Extracts 'Kiosk' enabled POS items. This feature can be useful to insure prices etc. are current.

Item Sync:

Extracts 'Kiosk' enabled POS items. This is a minimalist version of "MenuSync".

Product Sync:

Extracts Products instead of POS items. This is minimalist.

New Order:

Places a new order into the "FutureOrders" related tables in the POS2100.MDB

Cancel Order:

Cancels a previously submitted order that has yet to be triggered into the POS2100 system.

2.1.8 Sample HTTP Header:

```
POST /LRequest.cgi HTTP/1.1
Host: 127.0.0.1
Content-Type: text/xml; charset=utf-8
Connection: close
Content-Length: nnn
```

Replace the "127.0.0.1" and "nnn" with the appropriate values.

2.2 Integrating INetOrder.DLL

2.2.1 Requirements:

Windows 2000 SP4
Windows XP, 7
Windows 2003, 2008
WePOS

Comtrex POS System

2.2.2 Installation:

This DLL should be installed in “C:\Windows” unless the vendor prefers a tighter coupling. No DLL registration is required. If an update to this DLL is desired, the vendor must release all instances of the DLL prior to attempting an overwrite.

2.2.3 Registry:

```
[HKEY_LOCAL_MACHINE\SOFTWARE\Comtrex Systems\INetOrder]
"LogFilePath"="c:\icom\POS2100\INetOrder"
"DatabasePath"="c:\icom\database" or "\\YOUR_SERVER_NAME\ICOM\database"
"POS2100Path"="c:\icom\POS2100"
"NextInvoiceNumber"="1"
```

```
[HKEY_LOCAL_MACHINE\SOFTWARE\Comtrex Systems\POS2100]
"CBODatabasePath"="c:\icom\database" or "\\YOUR_SERVER_NAME\ICOM\database"
```

2.2.4 Logging:

The log file name is "INET_ORDER_DLL-XX.txt" where XX is the current day of the month.
The default path is currently "C:\icom\POS2100\INetOrder". The path value is in the registry section described above.

2.2.5 Functionality:

The vendor resident software will invoke the DLL and pass file names of the XML data for orders the vendor software has received from the internet. The DLL will then populate the “FutureOrders” tables in POS2100.MDB with the order info. Cancel order functionality is also provided. A menu sync function is available for the vendor to extract our ‘Kiosk’ enabled POS items. This feature can be useful to insure prices etc. are current.

List of database tables used by the DLL to inject or delete orders.

POS2100.MDB:
FutureOrders
FutureOrdersDeliveryInfo
FutureOrdersInvoiceHeader
FutureOrdersInvoiceItems

CBODef_S.MDB:
FutureOrderVendorDefinitions

2.2.6 Exported functions:

`int MenuSync(LPCTSTR pVendorName,UINT uiRestaurantID, LPCTSTR pMenuFile)`

Parameters:

LPCTSTR pVendorName	VendorName that the DLL uses to validate the vendor, and to find the POS parameters associated with the particular vendor. This name is also programmed into the vendor definitions table via the Odyssey Back Office programming module.
UINT uiRestaurantID	Currently pass '1' in this field.
LPCTSTR pMenuFile	FQPN of XML file to receive the menu data.

`int ItemSync(LPCTSTR pVendorName,UINT uiRestaurantID, LPCTSTR pRequestFile, LPCTSTR pResponseFile)`

Parameters:

LPCTSTR pVendorName	VendorName that the DLL uses to validate the vendor, and to find the POS parameters associated with the particular vendor. This name is also programmed into the vendor definitions table via the Odyssey Back Office programming module.
UINT uiRestaurantID	Currently pass '1' in this field.
LPCTSTR pRequestFile	FQPN of XML file containing the request..
LPCTSTR pResponseFile	FQPN of XML file to receive the items data.

`int ProductSync(LPCTSTR pVendorName,UINT uiRestaurantID, LPCTSTR pRequestFile, LPCTSTR pResponseFile)`

Parameters:

LPCTSTR pVendorName	VendorName that the DLL uses to validate the vendor, and to find the POS parameters associated with the particular vendor. This name is also programmed into the vendor definitions table via the Odyssey Back Office programming module.
UINT uiRestaurantID	Currently pass '1' in this field.
LPCTSTR pRequestFile	FQPN of XML file containing the request..
LPCTSTR pResponseFile	FQPN of XML file to receive the products data.

`int NewOrder(LPCTSTR pVendorName, UINT uiRestaurantID, LPCTSTR pOrderFile, LPCTSTR pResponseFile)`

Parameters:

LPCTSTR pVendorName	VendorName that the DLL uses to validate the vendor, and to find the POS parameters associated with the particular vendor. This name is also programmed into the vendor definitions table via the Odyssey Back Office programming module.
UINT uiRestaurantID	Currently pass '1' in this field.
LPCTSTR pOrderFile	FQPN of XML file with order to inject into POS system.
LPCTSTR pResponseFile	FQPN of XML file to receive the result of the order request.

`int CancelOrder(LPCTSTR pVendorName, UINT uiRestaurantID, LPCTSTR pCancelOrderFile, LPCTSTR pResponseFile)`

Parameters:

LPCTSTR pVendorName	VendorName that the DLL uses to validate the vendor, and to find the POS parameters associated with the particular vendor. This name is also programmed into the vendor definitions table via the Odyssey Back Office programming module.
UINT uiRestaurantID	Currently pass '1' in this field.
LPCTSTR pCancelOrderFile	FQPN of XML file with cancel order data.
LPCTSTR pResponseFile	FQPN of XML file to receive the result of the cancel request.

All functions return '0' unless there is a fatal initialization error. These errors are listed below. In all cases, if the return value is '0', there will be an XML response. If these functions return non '0', there will be no XML response.

```
#define ERROR_INVALID_VENDOR          903
#define ERROR_DATABASE_UNAVAILABLE    67
#define ERROR_DATABASE_UNREADABLE    68
#define ERROR_ORDER_NOT_FOUND        2
#define ERROR_ITEM_NOT_FOUND         1168
```


3.0 XML Request and Response Templates/Examples

3.0.1 New Order XML

This XML message type will be used to transmit new orders to the POS system.

Template/Example of New Order XML

```
<?xml version="1.0" ?>
<NewOrder>
  <OrderHeader>
    <VendorName>PatronPath</VendorName>
    <CustomerName>Robert Wilson</CustomerName>
    <VendorOrderID>1002</VendorOrderID>
    <OriginateDateTime>2012-07-14 16:29:12</OriginateDateTime>
    <TriggerDateTime>2012-07-14 17:29:12</TriggerDateTime>
    <PickupDateTime>2012-07-14 17:29:12</PickupDateTime>
    <Instructions>Some order instruction here</Instructions>
    <TableNumber>14</TableNumber>
    <Delivery>
      <CustomerInfo>
        <LastName>Wilson</LastName>
        <FirstName>Robert</FirstName>
        <MiddleInitial>K</MiddleInitial>
        <AddressLine1>1855 West Bourbon Street</AddressLine1>
        <AddressLine2 />
        <City>Freemont</City>
        <State>AZ</State>
        <Zip>45128</Zip>
        <HomePhone>(749) 555-9823</HomePhone>
        <WorkPhone>(749) 558-1223</WorkPhone>
        <CellPhone />
        <DeliveryInstructions>Recessed house at end of street</DeliveryInstructions>
        <HomeAddress>Yes</HomeAddress>
      </CustomerInfo>
    </Delivery>
  </OrderHeader>
  <OrderItems>
    <MenuItem>
      <ItemNumber>578</ItemNumber>
      <Description>Devilleed Crab</Description>
      <Quantity>1</Quantity>
      <AmountEach>17.50</AmountEach>
      <Instructions>Lightly fried.</Instructions>
      <IngredientItem>
        <ItemNumber>638</ItemNumber>
        <Description>Baked</Description>
        <Quantity>1</Quantity>
        <AmountEach>0.00</AmountEach>
        <Instructions />
      </IngredientItem>
      <IngredientItem>
        <ItemNumber>838</ItemNumber>
        <Description>Sour Cream</Description>
        <Quantity>1</Quantity>
        <AmountEach>0.00</AmountEach>
        <Instructions />
      </IngredientItem>
    </MenuItem>
  </OrderItems>
</NewOrder>
```

```

        </IngredientItem>
    </IngredientItem>
</MenuItem>
<MenuItem>
    <ItemNumber>1263</ItemNumber>
    <Description>Buffalo Wings</Description>
    <Quantity>1</Quantity>
    <AmountEach>5.95</AmountEach>
    <Instructions>Lightly fried.</Instructions>
    <IngredientItem>
        <ItemNumber>1104</ItemNumber>
        <Description>Bleu Cheese</Description>
        <Quantity>1</Quantity>
        <AmountEach>0.00</AmountEach>
        <Instructions />
    </IngredientItem>
</MenuItem>
<MenuItem>
    <ItemNumber>11</ItemNumber>
    <Description>Clams Casino</Description>
    <Quantity>1</Quantity>
    <AmountEach>7.95</AmountEach>
    <Instructions />
</MenuItem>
</OrderItems>
<OrderCharges>
    <Charge>
        <MediaNumber>328</MediaNumber>
        <Description>Gift Certificate</Description>
        <Amount>15.00</Amount>
    </Charge>
</OrderCharges>
<OrderTips>
    <Tip>
        <MediaNumber>4</MediaNumber>
        <Description>Cash Tip</Description>
        <Amount>6.00</Amount>
    </Tip>
</OrderTips>
<OrderDiscounts>
    <Discount>
        <MediaNumber>97</MediaNumber>
        <Description>Kios Discount</Description>
        <Amount>2.00</Amount>
    </Discount>
</OrderDiscounts>
<OrderPayments>
    <Payment>
        <PaymentType>1</PaymentType>
        <PaymentName>Visa</PaymentName>
        <PaymentAmount>52.60</PaymentAmount>
    </Payment>
</OrderPayments>
<OrderTrailer>
    <TotalTax>2.20</TotalTax>
    <TotalItems_InfoOnly>31.40</TotalItems_InfoOnly>
    <TotalDiscount>2.00</TotalDiscount>

```

```
<TotalServiceCharge>15.00</TotalServiceCharge>  
<TotalTip>6.00</TotalTip>  
</OrderTrailer>  
</NewOrder>
```

Element	Req	Min	Max	Type	Description
OrderHeader	Y				Section Tag
VendorName	Y	1	25	AN	Vendor name that corresponds to vendor name in POS2100 DB.
CustomerName	Y	1	25	AN	Customer name. Used at pickup time to identify customer.
VendorOrderID	Y	1	128	AN	Vendor's order number. Used by vendor to identify order in subsequent requests. e.g. cancel order.
OriginateDateTime	Y	11	100	AN	Date and time the customer entered the order. Date format recommendation is YYYY-MM-DD HH:MM:SS
TriggerDateTime	Y	11	100	AN	Date and time the order should be introduced into the POS2100 system. Requisition printing etc.. Order may not be canceled after this time. Date format recommendation is YYYY-MM-DD HH:MM:SS
PickupDateTime	O	11	100	AN	Date and time the customer will pick up the order.
Instructions	O	1	255	AN	Any instructions that apply to the entire order.
TableNumber	O	1	7	N	Table Number to assign to the order.
Delivery	O				Section Tag Only required for delivery orders
CustomerInfo	Y				Section Tag
LastName	Y	1	30	AN	Last name
FirstName	Y	1	20	AN	First name
MiddleInitial	O	1	15	AN	MI
AddressLine1	Y	1	30	AN	Address line 1
AddressLine2	O	1	30	AN	Address line 2
City	Y	1	30	AN	City
State	Y	2	30	AN	State
Zip	Y	5	12	AN	Zip code
HomePhone	Y	7	15	AN	Home phone
WorkPhone	O	7	15	AN	Work phone
CellPhone	O	7	15	AN	Cell Phone
DeliveryInstructions	O	1	255	AN	Instructions or delivery directions etc..
HomeAddress	O	1	3	A	(Yes) if this order is for home delivery
OrderItems	Y				Section Tag
MenuItem	Y				Section Tag Repeatable
ItemNumber	Y	1	16	AN	POS Item number or Product Number. Dependent on POS configuration.
Description	Y	1	50	AN	Item description
Quantity	Y	1	2	N	Quantity desired
AmountEach	Y	1	10	N	Price each
Instructions	O	1	50	AN	Prep instructions for item
IngredientItem	O				Section Tag Repeatable and Recursive
ItemNumber	Y	1	10	N	POS Item number from store database
Description	Y	1	50	AN	Item description
Quantity	Y	1	2	N	Quantity desired
AmountEach	Y	1	10	N	Price each
Instructions	O	1	50	AN	Prep instructions for ingredient
OrderCharges	O				Section Tag
Charge	O				Section Tag Repeatable
MediaNumber	Y	1	10	N	Service Charge Media Number from store database
Description	Y	1	50	AN	Description of Service Charge
Amount	Y	1	10	N	Amount of Service Charge
OrderTips	O				Section Tag
Tip	O				Section Tag Repeatable
MediaNumber	Y	1	10	N	Tip Media Number from store database

Description	Y	1	50	AN	Description of Tip
Amount	Y	1	10	N	Amount of Tip
OrderDiscounts	O				Section Tag
Discount	O				Section Tag Repeatable
MediaNumber	Y	1	10	N	Discount Media Number from store database
Description	Y	1	50	AN	Description of Discount
Amount	Y	1	10	N	Amount of Discount
OrderPayments	Y				Section Tag
Payment	O				Section Tag Repeatable
PaymentType	Y	1	2	N	Always 1 with INetOrder.dll versions below 1.0.0.22. If INetOrder.dll version is 1.0.0.22 or greater, then types 1 - 10 are allowed, and should match payment types programmed in store database.
PaymentName	Y	1	15	AN	Type of media used. Visa M/C etc.
PaymentAmount	Y	1	10	N	Amount tendered
OrderTrailer	Y				Section Tag
TotalTax	Y	1	10	N	Total tax collected. Informational
TotalItems_InfoOnly	Y	1	10	N	Total of items. Informational
TotalDiscount	Y	1	10	N	Total discount. Informational
TotalServiceCharge	Y	1	10	N	Total service charge. Informational
TotalTip	Y	1	10	N	Total tip. Informational

Required (Y=Yes O=Optional) Type (A=Alpha AN=Alpha Numeric N=Numeric)
 Template/Example of New Order Response XML

Example of a response to a successfully accepted new order.

```
<?xml version="1.0" ?>
<NewOrderResponse>
  <ResponseHeader>
    <VendorOrderID>1002</VendorOrderID>
    <Status>0</Status>
  </ResponseHeader>
</NewOrderResponse>
```

Example of a response to an order that contains an unrecognized item number. On any error condition, the order is rejected, and not stored.

```
<?xml version="1.0" ?>
<NewOrderResponse>
  <ResponseHeader>
    <VendorOrderID>1002</VendorOrderID>
    <Status>1168</Status>
  </ResponseHeader>
  <Errors>
    <Error>
      <ErrorNumber>1168</ErrorNumber>
      <ErrorMessage>Item not found [1263]</ErrorMessage>
    </Error>
  </Errors>
</NewOrderResponse>
```

Element	Req	Min	Max	Type	Description
ResponseHeader	Y				Section Tag
VendorOrderID	Y	1	128	AN	Vendor order ID from the new order request XML

Status	Y	1	10	N	Status 0 = Success Non zero = Failure If this value is non zero, the order was not accepted.
Errors	O				Section Tag Only included if there was an error.
Error	Y				Section Tag
ErrorNumber	Y	1	10	N	Error number
ErrorMessage	Y	1	255	AN	Error message that describes error condition.

Possible error numbers returned in response to new order request.

```
#define ERROR_ITEM_NOT_FOUND 1168
```

3.0.2 Cancel Order

This XML message type will be used to cancel an order that was previously entered into the POS system. Only orders that have not reached the trigger time will be canceled.

Template/Example of Cancel Order XML

```
<?xml version="1.0" ?>
<CancelOrder>
  <CancelOrderHeader>
    <VendorName>PatronPath</VendorName>
    <VendorOrderID>1002</VendorOrderID>
    <OriginateDateTime>2012-07-14 12:23:53</OriginateDateTime>
  </CancelOrderHeader>
</CancelOrder>
```

Element	Req	Min	Max	Type	Description
CancelOrderHeader	Y				Section Tag
VendorName	Y	1	25	AN	Vendor name that corresponds to vendor name in POS2100 DB.
VendorOrderID	Y	1	128	AN	Vendor's order number. Used to identify order to be canceled.
OriginateDateTime	Y	11	100	AN	Date and time of this request. . Date format recommendation is YYYY-MM-DD HH:MM:SS

Template/Example of Cancel Order Response XML

Example of a response to a successfully canceled order.

```
<?xml version="1.0" ?>
<CancelOrderResponse>
  <ResponseHeader>
    <VendorOrderID>1002</VendorOrderID>
    <Status>0</Status>
  </ResponseHeader>
</CancelOrderResponse>
```

Example of a response to a cancel order request that contains an unrecognized vendor order number. This can result from an incorrect number, or the number of an order that has already reached its trigger time, and has already been injected into the POS system.

```
<?xml version="1.0" ?>
<CancelOrderResponse>
  <ResponseHeader>
    <VendorOrderID>1002</VendorOrderID>
    <Status>2</Status>
  </ResponseHeader>
  <Errors>
    <Error>
      <ErrorNumber>2</ErrorNumber>
      <ErrorMessage>Order not found.</ErrorMessage>
    </Error>
  </Errors>
</CancelOrderResponse>
```

Element	Req	Min	Max	Type	Description
ResponseHeader	Y				Section Tag
VendorOrderID	Y	1	128	AN	Vendor order ID from the cancel order request XML
Status	Y	1	10	N	Status 0 = Success Non zero = Failure If this value is non zero, the order was not canceled.
Errors	O				Section Tag Only included if there was an error.
Error	Y				Section Tag
ErrorNumber	Y	1	10	N	Error number
ErrorMessage	Y	1	255	AN	Error message that describes error condition.

Possible error numbers returned in response to cancel order request.

```
#define ERROR_ORDER_NOT_FOUND 2
```


3.0.3 Menu Sync

Template/Example of Menu Sync Request XML

```
<?xml version="1.0" ?>
<MenuSync>
  <Header>
    <VendorName>YOUR_VENDOR_XML_ID</VendorName>
  </Header>
</MenuSync>
```

Element	Req	Min	Max	Type	Description
Header	Y				Section Tag
VendorName	Y	1	25	AN	Vendor name that corresponds to vendor XMLID in POS2100 database.

Template/Example of Menu Sync Response XML

```
<?xml version="1.0" ?>
<Menu>
  <StoreNumber>1</StoreNumber>
  <MenuExtractionDate>2012-10-20 12:07:44</MenuExtractionDate>
  <MenuItemList>
    <ListName>Appetizers</ListName>
    <ListNumber>10004</ListNumber>
    <CompulsoryEntry>False</CompulsoryEntry>
    <MultipleEntry>True</MultipleEntry>
    <MaximumSelections>0</MaximumSelections>
    <MenuItem>
      <ItemNumber>1552</ItemNumber>
      <ShortDescription>Bay Scallops</ShortDescription>
      <LongDescription>Bay Scallops</LongDescription>
      <ValidityStartDate>2012-10-20 00:00:00</ValidityStartDate>
      <ValidityEndDate>2012-10-21 00:00:00</ValidityEndDate>
      <Price>10.95</Price>
      <Discount>0</Discount>
      <Tax>0.070</Tax>
    </MenuItem>
    <MenuItem>
      <ItemNumber>14</ItemNumber>
      <ShortDescription>Fried Mozzarella</ShortDescription>
      <LongDescription>Fried Mozzarella</LongDescription>
      <ValidityStartDate>2012-10-20 00:00:00</ValidityStartDate>
      <ValidityEndDate>2012-10-21 00:00:00</ValidityEndDate>
      <Price>5.95</Price>
      <Discount>0</Discount>
      <Tax>0.070</Tax>
      <IngredientItemList>
        <ListName>Dipping Sauce</ListName>
        <ListNumber>1014</ListNumber>
        <CompulsoryEntry>False</CompulsoryEntry>
        <MultipleEntry>True</MultipleEntry>
        <MaximumSelections>0</MaximumSelections>
        <IngredientItem>
```

```

        <ItemNumber>1104</ItemNumber>
        <ShortDescription>Bleu Cheese</ShortDescription>
        <LongDescription>Bleu Cheese</LongDescription>
        <Price>0.00</Price>
        <Discount>0</Discount>
        <Tax>0.070</Tax>
    </IngredientItem>
    <IngredientItem>
        <ItemNumber>1105</ItemNumber>
        <ShortDescription>Cheese</ShortDescription>
        <LongDescription>Cheese</LongDescription>
        <Price>0.25</Price>
        <Discount>0</Discount>
        <Tax>0.070</Tax>
    </IngredientItem>
    <IngredientItem>
        <ItemNumber>1107</ItemNumber>
        <ShortDescription>Sour Cream</ShortDescription>
        <LongDescription>Sour Cream</LongDescription>
        <Price>0.75</Price>
        <Discount>0</Discount>
        <Tax>0.070</Tax>
    </IngredientItem>
    <IngredientItem>
        <ItemNumber>1108</ItemNumber>
        <ShortDescription>Tomato Sauce</ShortDescription>
        <LongDescription>Tomato Sauce</LongDescription>
        <Price>0.00</Price>
        <Discount>0</Discount>
        <Tax>0.070</Tax>
    </IngredientItem>
</IngredientItemList>
</MenuItem>
</MenuItemList>
</Menu>

```

Element	Req	Min	Max	Type	Description
Menu	Y				Root Tag
StoreNumber	Y	1	10	N	Store Number
MenuExtractionDate	Y	11	100	AN	Date and time this menu was extracted.
MenuItemList	Y				Section Tag Repeatable and Recursive
ListName	Y	1	40	AN	List name. This is the name of a list file in the POS2100 database. Example would be Appetizers, Soups etc..
ListNumber	Y	1	10	N	List number.
CompulsoryEntry	Y	4	5	A	True if something must be selected from the contents of this list. False if the selection is optional.
MultipleEntry	Y	4	5	A	True if multiple items from this list may be selected. False if only one item from this list may be selected.
MaximumSelections	Y	1	10	N	Maximum selections from this list.
MenuItem	Y				Section Tag Repeatable
ItemNumber	Y	1	10	N	POS Item number
ShortDescription	Y	1	50	AN	Item description
LongDescription	Y	1	50	AN	Item description
ValidityStartDate	Y	11	100	AN	Starting date item may be sold.

ValidityEndDate	Y	11	100	AN	Last date item may be sold.
Price	Y	1	10	N	Price each
Discount	Y	1	10	N	Discount. Currently not used. Will be Zero
Tax	Y	1	10	N	Tax percent for this item.
IngredientItemList	Y				Section Tag Repeatable and Recursive
ListName	Y	1	40	AN	List name. This is the name of a list file in the POS2100 database. Example would be Appetizers, Soups etc..
ListNumber	Y	1	10	N	List number.
CompulsoryEntry	Y	4	5	A	True if something must be selected from the contents of this list. False if the selection is optional.
MultipleEntry	Y	4	5	A	True if multiple items from this list may be selected. False if only one item from this list may be selected.
MaximumSelections	Y	1	10	N	Maximum selections from this list.
IngredientItem	Y				Section Tag Repeatable
ItemNumber	Y	1	10	N	POS Item number
ShortDescription	Y	1	50	AN	Item description
LongDescription	Y	1	50	AN	Item description
ValidityStartDate	Y	11	100	AN	Starting date item may be sold.
ValidityEndDate	Y	11	100	AN	Last date item may be sold.
Price	Y	1	10	N	Price each
Discount	Y	1	10	N	Discount. Currently not used. Will be Zero
Tax	Y	1	10	N	Tax percent for this item.

3.0.4 Item Sync

Template/Example of Item Sync Request XML

```
<?xml version="1.0" ?>
<ItemSync>
  <Header>
    <VendorName>YOUR_VENDOR_XML_ID</VendorName>
    <Fields>
      <Include>ValidDates</Include>
      <Include>Tax</Include>
      <Include>ListFileParameters</Include>
      <Include>CondimentChain</Include>
    </Fields>
  </Header>
</ItemSync>
```

Element	Req	Min	Max	Type	Description
Header	Y				Section Tag
VendorName	Y	1	25	AN	Vendor name that corresponds to vendor XMLID in POS2100 database.
Fields	O				Section tag.
Include	O			A	Repeatable. Optional fields desired in response. Value must be one of the following. 1) ValidDates 2) Tax 3) ListFileParameters 4) CondimentChain

Template/Example of Item Sync Response XML with no optional fields included. (default)

```
<?xml version="1.0" ?>
<Items>
  <StoreNumber>1</StoreNumber>
  <MenuExtractionDate>2012-10-20 13:27:00</MenuExtractionDate>
  <Status>0</Status>
  <MenuItemList>
    <ListName>Appetizers</ListName>
    <ListNumber>10004</ListNumber>
    <MenuItem>
      <ItemNumber>1552</ItemNumber>
      <ShortDescription>Bay Scallops</ShortDescription>
      <Price>10.95</Price>
    </MenuItem>
    <MenuItem>
      <ItemNumber>14</ItemNumber>
      <ShortDescription>Fried Mozzarella</ShortDescription>
      <Price>5.95</Price>
    </MenuItem>
  </MenuItemList>
  <IngredientItemList>
    <ListName>Dipping Sauce</ListName>
    <ListNumber>1014</ListNumber>
    <IngredientItem>
```

```

        <ItemNumber>1104</ItemNumber>
        <ShortDescription>Bleu Cheese</ShortDescription>
        <Price>0.00</Price>
    </IngredientItem>
    <IngredientItem>
        <ItemNumber>1105</ItemNumber>
        <ShortDescription>Cheese</ShortDescription>
        <Price>0.25</Price>
    </IngredientItem>
    <IngredientItem>
        <ItemNumber>1107</ItemNumber>
        <ShortDescription>Sour Cream</ShortDescription>
        <Price>0.75</Price>
    </IngredientItem>
    <IngredientItem>
        <ItemNumber>1108</ItemNumber>
        <ShortDescription>Tomato Sauce</ShortDescription>
        <Price>0.00</Price>
    </IngredientItem>
</IngredientItemList>
<IngredientItemList>
    <ListName>Cooking Method</ListName>
    <ListNumber>1015</ListNumber>
    <IngredientItem>
        <ItemNumber>1201</ItemNumber>
        <ShortDescription>Broiled</ShortDescription>
        <Price>0.00</Price>
    </IngredientItem>
    <IngredientItem>
        <ItemNumber>1202</ItemNumber>
        <ShortDescription>Fried</ShortDescription>
        <Price>0.00</Price>
    </IngredientItem>
</IngredientItemList>
</Items>

```

Template/Example of Item Sync Response XML with ALL optional fields included.

```

<?xml version="1.0" ?>
<Items>
    <StoreNumber>1</StoreNumber>
    <MenuExtractionDate>2012-10-20 13:27:00</MenuExtractionDate>
    <Status>0</Status>
    <MenuItemList>
        <ListName>Appetizers</ListName>
        <ListNumber>10004</ListNumber>
        <MenuItem>
            <ItemNumber>1552</ItemNumber>
            <ShortDescription>Bay Scallops</ShortDescription>
            <ValidityStartDate>2012-10-20 00:00:00</ValidityStartDate>
            <ValidityEndDate>2012-10-20 23:59:59</ValidityEndDate>
            <Price>10.95</Price>
            <Tax>0.070</Tax>
            <CondimentChainList>
                <ListNumber>1014</ListNumber>
                <ListNumber>1015</ListNumber>
            </CondimentChainList>
        </MenuItem>
    </MenuItemList>
</Items>

```

```

        <ListNumber>1014</ListNumber>
        <ListAlternateName/>
        <CompulsoryEntry>False</CompulsoryEntry>
        <MultipleEntry>True</MultipleEntry>
        <MaximumSelections>0</MaximumSelections>
    </CondimentChain>

    <CondimentChain>
        <ListNumber>1015</ListNumber>
        <ListAlternateName/>
        <CompulsoryEntry>False</CompulsoryEntry>
        <MultipleEntry>False</MultipleEntry>
        <MaximumSelections>0</MaximumSelections>
    </CondimentChain>
</CondimentChainList>
</MenuItem>
<MenuItem>
    <ItemNumber>14</ItemNumber>
    <ShortDescription>Fried Mozzarella</ShortDescription>
    <ValidityStartDate>2012-10-20 00:00:00</ValidityStartDate>
    <ValidityEndDate>2012-10-22 00:00:00</ValidityEndDate>
    <Price>5.95</Price>
    <Tax>0.070</Tax>
    <CondimentChainList>
        <ListNumber>1014</ListNumber>
        <CondimentChain>
            <ListNumber>1014</ListNumber>
            <ListAlternateName/>
            <CompulsoryEntry>False</CompulsoryEntry>
            <MultipleEntry>True</MultipleEntry>
            <MaximumSelections>0</MaximumSelections>
        </CondimentChain>
    </CondimentChainList>
</MenuItem>
</MenuItemList>
<IngredientItemList>
    <ListName>Dipping Sauce</ListName>
    <ListNumber>1014</ListNumber>
    <MultipleEntry>True</MultipleEntry>
    <MaximumSelections>0</MaximumSelections>
    <IngredientItem>
        <ItemNumber>1104</ItemNumber>
        <ShortDescription>Bleu Cheese</ShortDescription>
        <Price>0.00</Price>
        <Tax>0.070</Tax>
        <CondimentChainList/>
    </IngredientItem>
    <IngredientItem>
        <ItemNumber>1105</ItemNumber>
        <ShortDescription>Cheese</ShortDescription>
        <Price>0.25</Price>
        <Tax>0.070</Tax>
        <CondimentChainList/>
    </IngredientItem>
    <IngredientItem>
        <ItemNumber>1107</ItemNumber>
        <ShortDescription>Sour Cream</ShortDescription>
        <Price>0.75</Price>

```

```

        <Tax>0.070</Tax>
        <CondimentChainList/>
    </IngredientItem>
    <IngredientItem>
        <ItemNumber>1108</ItemNumber>
        <ShortDescription>Tomato Sauce</ShortDescription>
        <Price>0.00</Price>
        <Tax>0.070</Tax>
        <CondimentChainList/>
    </IngredientItem>
</IngredientItemList>
<IngredientItemList>
    <ListName>Cooking Method</ListName>
    <ListNumber>1015</ListNumber>
    <MultipleEntry>False</MultipleEntry>
    <MaximumSelections>0</MaximumSelections>
    <IngredientItem>
        <ItemNumber>1201</ItemNumber>
        <ShortDescription>Broiled</ShortDescription>
        <Price>0.00</Price>
        <Tax>0.000</Tax>
        <CondimentChainList/>
    </IngredientItem>
    <IngredientItem>
        <ItemNumber>1202</ItemNumber>
        <ShortDescription>Fried</ShortDescription>
        <Price>0.00</Price>
        <Tax>0.000</Tax>
        <CondimentChainList/>
    </IngredientItem>
</IngredientItemList>
</Items>

```

Example of a response to an ItemSync request that contained an unrecognized vendor XMLID.

```

<?xml version="1.0" ?>
<Items>
    <StoreNumber>0</StoreNumber>
    <MenuExtractionDate>2012-10-20 13:27:00</MenuExtractionDate>
    <Status>903</Status>
    <Errors>
        <Error>
            <ErrorNumber>903</ErrorNumber>
            <ErrorMessage>Invalid Vendor</ErrorMessage>
        </Error>
    </Errors>
</Items>

```

Element	Req	Min	Max	Type	Description
Items	Y				Root Tag
StoreNumber	Y	1	10	N	Store Number
MenuExtractionDate	Y	11	100	AN	Date and time this menu was extracted.
Status	Y	1	10	N	Zero = Success Non zero = Error.
MenuItemList	Y				Section Tag Repeatable and Recursive
ListName	Y	1	40	AN	List name. This is the name of a list file in the POS2100 database. Example would be Appetizers, Soups etc..

ListNumber	Y	1	10	N	List number.
MenuItem	Y				Section Tag Repeatable
ItemNumber	Y	1	10	N	POS Item number
ShortDescription	Y	1	50	AN	Item description
ValidityStartDate	O	11	100	AN	Starting date item may be sold.
ValidityEndDate	O	11	100	AN	Last date item may be sold.
Price	Y	1	10	N	Price each
Tax	Y	1	10	N	Tax percent for this item.
CondimentChainList	O				Section Tag.
ListNumber	O	1	10	N	Repeatable. Ingredient List File Number.
CondimentChain	O				Section Tag Repeatable
ListNumber	Y	1	10	N	List Number
ListAlternateName	Y	1	40	AN	Alternate name supplied by condiment chain
CompulsoryEntry	Y	4	5	A	True if something must be selected from the contents of this list. False if the selection is optional.
MultipleEntry	Y	4	5	A	True if multiple items from this list may be selected. False if only one item from this list may be selected.
MaximumSelections	Y	1	10	N	Maximum selections from this list.
IngredientItemList	Y				Section Tag Repeatable and Recursive
ListName	Y	1	40	AN	List name. This is the name of a list file in the POS2100 database. Example would be Appetizers, Soups etc..
ListNumber	Y	1	10	N	List number.
MultipleEntry	O	4	5	A	True if multiple items from this list may be selected. False if only one item from this list may be selected.
MaximumSelections	O	1	10	N	Maximum selections from this list.
IngredientItem	Y				Section Tag Repeatable
ItemNumber	Y	1	10	N	POS Item number
ShortDescription	Y	1	50	AN	Item description
ValidityStartDate	O	11	100	AN	Starting date item may be sold.
ValidityEndDate	O	11	100	AN	Last date item may be sold.
Price	Y	1	10	N	Price each
Tax	Y	1	10	N	Tax percent for this item.
CondimentChainList	O				Section Tag.
ListNumber	O	1	10	N	Repeatable. Ingredient List File Number.
CondimentChain	O				Section Tag Repeatable
ListNumber	Y	1	10	N	List Number
ListAlternateName	O	1	40	AN	Alternate name supplied by condiment chain
CompulsoryEntry	Y	4	5	A	True if something must be selected from the contents of this list. False if the selection is optional.
MultipleEntry	Y	4	5	A	True if multiple items from this list may be selected. False if only one item from this list may be selected.
MaximumSelections	Y	1	10	N	Maximum selections from this list.

3.0.5 Product Sync

Template/Example of Product Sync Request XML

```
<?xml version="1.0" ?>
<ItemSync>
  <Header>
    <VendorName>YOUR_VENDOR_XML_ID</VendorName>
  </Header>
</ItemSync>
```

Element	Req	Min	Max	Type	Description
Header	Y				Section Tag
VendorName	Y	1	25	AN	Vendor name that corresponds to vendor XMLID in POS2100 database.

Template/Example of Product Sync Response XML

```
<?xml version="1.0" ?>
<Items>
  <StoreNumber>1</StoreNumber>
  <MenuExtractionDate>2013-05-20 13:27:00</MenuExtractionDate>
  <Status>0</Status>
  <MenuItemList>
    <MenuItem>
      <ItemNumber>440001</ItemNumber>
      <ShortDescription>Bay Scallops</ShortDescription>
      <ValidityStartDate>2000-01-01 00:00:00</ ValidityStartDate >
      <ValidityEndDate>2050-01-01 00:00:00</ ValidityEndDate >
      <Price>10.95</Price>
      <Tax>0.070</Tax>
    </MenuItem>
    <MenuItem>
      <ItemNumber>440002</ItemNumber>
      <ShortDescription>Fried Mozzarella</ShortDescription>
      <ValidityStartDate>2000-01-01 00:00:00</ ValidityStartDate >
      <ValidityEndDate>2050-01-01 00:00:00</ ValidityEndDate >
      <Price>5.95</Price>
      <Tax>0.070</Tax>
    </MenuItem>
  </MenuItemList>
</Items>
```

Element	Req	Min	Max	Type	Description
Items	Y				Root Tag
StoreNumber	Y	1	10	N	Store Number
MenuExtractionDate	Y	11	100	AN	Date and time this menu was extracted.
Status	Y	1	10	N	Zero = Success Non zero = Error.
MenuItemList	Y				Section Tag Repeatabe and Recursive
MenuItem	Y				Section Tag Repeatabe

ItemNumber	Y	1	16	AN	Product number
ShortDescription	Y	1	50	AN	Item description
ValidityStartDate	Y	11	100	AN	Starting date item may be sold.
ValidityEndDate	Y	11	100	AN	Last date item may be sold.
Price	Y	1	10	N	Price each
Tax	Y	1	10	N	Tax percent for this item.

4.0 Document Revision History

1.0.0.0	October 23, 2008	● Initial Release. Patron Path only support.
1.0.0.1	October 24, 2008	● Minor editorial revisions to document.
1.0.0.2	December 8, 2008	● Added a revision section (4.0) for INetOrder.DLL ● Minor editorial revisions to document.
1.0.0.3	January 4, 2011	● Updated the required registry entries.
1.0.0.4	November 28, 2011	● Updated revision section (6.0) for INetOrder.DLL
1.0.0.5	December 14, 2011	● Updated revision section (6.0) for INetOrder.DLL
1.0.0.6	February 21, 2012	● Updated revision section (6.0) for INetOrder.DLL ● Integrated TCP/IP Service, DLL, and XML into this PDF
1.0.0.7	July 3, 2012	● Updated TCP/IP description and added a sample HTTP header. Also updated “MenuSync” with request example.
1.0.0.8	July 14, 2012	● Updated date format recommendation to bridge locale issues.
1.0.0.9	August 22, 2012	● Added “ItemSync” section. Updated revision section (5.0) for INetOrderService.exe Updated revision section (6.0) for INetOrder.DLL
1.0.0.10	March 5, 2013	● Updated revision section (6.0) for INetOrder.DLL
1.0.0.11	April 18, 2013	● Updated revision section (6.0) for INetOrder.DLL
1.0.0.12	May 21, 2012	● Added “ProductSync” section. Updated revision section (5.0) for INetOrderService.exe Updated revision section (6.0) for INetOrder.DLL
1.0.0.14	March 20, 2014	● Updated revision section (6.0) for INetorder.DLL
1.0.0.15	August 13, 2014	● Updated revision section (6.0) for INetorder.DLL
1.0.0.16	August 25, 2014	● Updated revision section (6.0) for INetorder.DLL
1.0.0.17	November 6, 2014	● Updated revision section (5.0) for INetOrderService.exe
1.0.0.18	April, 27, 2015	● Updated revision section (6.0) for INetOrder.DLL
1.0.0.19	June 17, 2016	● Updated revision section (6.0) for INetOrder.DLL Update XML spec for PaymentType
1.0.0.20	September 21, 2016	● Updated revision section (6.0) for INetOrder.DLL Updated revision section (5.0) for INetOrderService.exe
1.0.0.21	November 29, 2016	● Updated revision section (6.0) for INetOrder.DLL Updated revision section (5.0) for INetOrderService.exe Added revision section (7.0) for POS2100AUX.DLL
1.0.0.22	December 12, 2016	● Updated revision section (7.0) for POS2100AUX.DLL
1.0.0.23	January 17, 2017	● Updated revision section (6.0) for INetOrder.DLL Updated revision section (7.0) for POS2100AUX.DLL
1.0.0.24	January 19, 2017	● Updated revision section (6.0) for INetOrder.DLL Updated revision section (5.0) for INetOrderService.exe Updated revision section (7.0) for POS2100AUX.DLL
1.0.0.25	April 10, 2017	● Updated revision section (7.0) for POS2100AUX.DLL
1.0.0.26	April 24, 2017	● Updated revision section (7.0) for POS2100AUX.DLL
1.0.0.27	May 1, 2017	● Updated revision section (7.0) for POS2100AUX.DLL
1.0.0.28	May22, 2017	● Updated revision section (7.0) for POS2100AUX.DLL
1.0.0.29	June 5, 2017	● Updated revision section (6.0) for INetOrder.DLL
1.0.0.30	July 5, 2017	● Updated revision section (7.0) for POS2100AUX.DLL
1.0.0.31	September 28, 2017	● Updated revision section (7.0) for POS2100AUX.DLL
1.0.0.32	April 24, 2018	● Updated revision section (7.0) for POS2100AUX.DLL
1.0.0.33	September 26, 2018	● Updated revision section (7.0) for POS2100AUX.DLL ● Updated revision section (6.0) for INetOrder.DLL

- 1.0.0.34 May 30, 2019
 - Updated revision section (7.0) for POS2100AUX.DLL
 - Updated revision section (6.0) for INetOrder.DLL
- 1.0.0.35 August 1, 2019
 - Updated revision section (7.0) for POS2100AUX.DLL
- 1.0.0.36 October 8, 2019
 - Updated revision section (7.0) for POS2100AUX.DLL
- 1.0.0.37 October 11, 2019
 - Updated revision section (6.0) for INetOrder.DLL
- 1.0.0.38 November 20, 2019
 - Updated revision section (7.0) for POS2100AUX.DLL
 - Updated revision section (6.0) for INetOrder.DLL
- 1.0.0.39 January 23, 2020
 - Updated revision section (7.0) for POS2100AUX.DLL
 - Updated revision section (6.0) for INetOrder.DLL
- 1.0.0.40 March 17, 2020
 - Updated revision section (7.0) for POS2100AUX.DLL
- 1.0.0.41 June 8, 2020
 - Updated revision section (7.0) for POS2100AUX.DLL
 - Updated company address on first page of this document
- 1.0.0.42 August 3, 2020
 - Updated revision section (7.0) for POS2100AUX.DLL
 - Updated revision section (6.0) for INetOrder.DLL
- 1.0.0.43 August 14, 2020
 - Updated revision section (7.0) for POS2100AUX.DLL
- 1.0.0.44 September 21, 2020
 - Updated revision section (7.0) for POS2100AUX.DLL
- 1.0.0.45 January 26, 2021
 - Updated revision section (7.0) for POS2100AUX.DLL
- 1.0.0.46 March 25, 2021
 - Updated revision section (7.0) for POS2100AUX.DLL
 - Updated revision section (6.0) for INetOrder.DLL
- 1.0.0.47 May 3, 2022
 - Updated revision section (7.0) for POS2100AUX.DLL
- 1.0.0.48 June 24, 2022
 - Updated revision section (7.0) for POS2100AUX.DLL
- 1.0.0.49 October 28, 2022
 - Updated revision section (7.0) for POS2100AUX.DLL

5.0 **INetOrderService.exe Revision History**

1.0.0.1 May 10, 2011

Initial Release.

1.0.0.2 August 22, 2012

Added "ItemSync" packet processing and call to DLL.

Fixed idle timeout to allow long "MenuSync" operations to complete.

1.0.0.3 May 20, 2013

Added "ProductSync" packet processing and call to DLL.

1.0.0.4 November 5, 2014

Removed maint. timer log statements. Too many and not necessary.

1.0.0.5 July 25, 2016

Added pass thru calls to POS2100AUX.DLL. This facilitates real time ordering and real time payments.

1.0.0.6 October 25, 2016

Changed MIME type from text/json to application/json.

1.0.0.7 January 19, 2017

Added "LimitedQuantity" call to INetOrder.DLL in INetOrderService.

.

6.0 INetOrder.DLL Revision History

1.0.0.1 October 23, 2008

Initial Release.

1.0.0.2 December 8, 2008

Added call to PrintCheck.dll to print the new order as it is received from Patron Path.

This printing happens if 'PrinterGroup' vendor parameter is a valid printer group number.

01.00.00.03 December 8, 2010

Updated recordsets to reflect DB changes to POS2100 DBs. (1.0.3.770 9-20-2010)

Removed POSItemDefinitions DB fields POSItemFlag0001 POSItemFlag0002 POSItemFlag0004 POSItemFlag0008
POSItemFlag0040 POSItemFlag0080

Updated PrintCheck structure to align with POS2100 (1.0.3.778 11-2-2010)

1.0.0.4 December 13, 2010

Bug fix. Cancel order failing with "Order not found" error.

1.0.0.5 January 4, 2011

Update MenuSync to return zero on success, and update MenuSync to return error codes as documented here.

1.0.0.6 May 10, 2011

Upgraded development platform to VS2005. Removed a db error message box.

1.0.0.7 October 22, 2011

Fixed sales type description to be updated and stored correctly. Sales type number was stored correctly.

Update cashier record fetch to now join POSOperatorGroups. (DBRevision 4-8-2011)

Updated NewOrder() to report errors correctly and return error in XML in all cases. We were previously returning an error code and not returning a xml packet. Now we return (0) and report errors in xml.

This was necessary as now we are moving to a TCP/IP interface, and not returning a xml packet would leave the TCP/IP session without a completion, to just timeout.

1.0.0.8 November 4, 2011

Added new field [FutureOrdersDeliveryInfo].[DerivedInvoiceNumber] and code to send POS2100.MDB future orders invoice number in this field to PrintCheck() to allow PrintCheck to extract the actual delivery parameters from FutureOrdersDeliveryInfo for printing.

Forced check number to ZERO for printing here, so check number can be suppressed since check number is not 'really' a valid number in the system.

1.0.0.9 November 17, 2011

Add "TableNumber" field to XML order header so mobile 'kiosks' at sit down restaurants can create multiple orders at the same table, and combine them easily at pay time. This is a method to simulate "order update" which is quite complex and would require a substantial development effort.

Side note. Default table was not working either. Always table zero. Update MenuSync to return zero on success, and update MenuSync to return error codes as documented here in 1.0.0.7.

1.0.0.10 November 28, 2011

Truncate incoming 'CustomerName' field to 25 characters to prevent possible DB update errors.

1.0.0.11 December 14, 2011

Added UDP notification message to POS that new order has been entered. Speeds up process for kiosk.

Port is 31248. In registry it is "NotifyPort" as a string, with undefined default as 31248.

Added XML tags to support Service charges, Tips, and Discounts Added code to support Service charges, Tips, and Discounts. Proper itemizer programming at the POS DB is necessary to make this work properly.

1.0.0.12 February 21, 2012

Updated MenuSync to only return 'Active' POSItems.

Updated MenuSync Validity start/end dates to use product DateOfDebut and DateInactive dates.

If DateInactive is blank, return 1/1/2050

Actual math for 2050 is (Current Year + 40 - (MODULO 10)).

1.0.0.13 August 22, 2012

Added "ItemSync" processing. "ItemSync" is a stripped down "MenuSync".

Changed MenuSync and ItemSync dates to be YYYY-MM-DD HH:MM:SS

Changed MenuSync and ItemSync price field to be 2 digits after 'decimal' with no signs or thousand separators etc..

• The following update will require an updated version of printcheck.dll.

Added variable to pass to printcheck.dll, notifying printcheck.dll that "G:" is not available.

This makes the Printer Configuration → Terminal Print Options → Print/Video Output Path update to "C:" unnecessary.

1.0.0.14 March 5, 2013

Bug fix. New order adding items was not refreshing it's DB table pointer before each item of a multi quantity item.

When looping thru sale items, <Quantity> greater than 1, subsequent passes were not rereading DB record

so if there were attached ingredients, the last ingredient read would actually supply the descriptor for the subsequent sale item.

The criteria to make this happen is a <Quantity> greater than one and at least one ingredient.

1.0.0.15 April 17, 2013

Changed fire message type to be non REMOTE FIRE.

1.0.0.16 May 20, 2013

Added "ProductSync" processing.

Added code to accept Product Numbers in lieu of POS Item numbers in "NewOrder" xml, if POS so programmed.

1.0.0.17 March 20, 2014

Changed the default seat number to 1 from zero. Kitchen Videos would not print in cafeteria mode unless default seat is set to "1".

1.0.0.18 August 12, 2014

Changed item sync to send all DCMs that have kiosk bit set.

Ignore the condiment chain as a method of determining the DCMs that need to be sent.

We were sending DCMs based on the condiment chain link as in the menu sync method.

1.0.0.19 August 25, 2014

Changed item sync to send all DCMs that have been used in a <MenuItem> or <Ingredientitem> condiment chain or DCMs that have kiosk bit set.

Add <CondimentChain> group to menu and ingredient items that have condiment chains.

1.0.0.20 April 27, 2015

Updated new order processing to properly update itemizers (recalc) prior to evaluating discounts.

1.0.0.21 May 18, 2016

Started using finalize media number types (FutureOrderPaymentTypes) so vendor may send 1-10 and the number will map to a payment type programmed in the store database. Any payment type that isn't found will revert to payment type 1. If payment type 1 is not found in DB, finalize media #96 will be forced.

1.0.0.22 June 13, 2016

Updated open DB connections to lessen impact on dependent dlls.

1.0.0.23 September 20, 2016

Changed the customer name/vendorid formation for a single vendor. Append the least significant (4 or less) chars preceding the most significant first semicolon. "Judy Smith" "24187;564;1234;3987" would produce "Judy Smith 4187". For all other vendors this would produce "Judy Smith 3987"

- 1.0.0.24 November 29, 2016
Updated to allow subtotal item discounts.
- 1.0.0.25 November 29, 2016
Add code to allow subtotal item discount. Program for 100%. Dollar amount will be upper limit.
- 1.0.0.26 December 20, 2016
Updated subtotal item discount to stop adding "100%" to discount name.
- 1.0.0.27 January, 19, 2017
Added LimitedQuantity request-response.
- 1.0.0.28 June 5, 2017
Updated to use sql server db.
Added PickupDateTime tag to new order xml. Requires current db update.
- 1.0.0.29 September 26, 2018
Updated menu sync to eliminate recursive opening of same dcm list files as a result of a pos item condiment chain linking back directly or indirectly to itself.
Fixed a possible hang issue if mandatory <AmountEach> tag/value is missing or corrupt.
- 1.0.0.30 May 30, 2019
Updated to remove print options deleted db fields. Resulted in errors and hangups.
Updated remote groups field to string from short.
- 1.0.0.31 October 11, 2019
Updated to prevent empty <IngredientItem/> tag from generating error.
- 1.0.0.32 November 20, 2019
Added right 4 characters of vendor order id to print check xml.
- 1.0.0.33 January 23, 2020
Updated to use alternate sql server credentials.
- 1.0.0.34 July 28, 2020
Stopped populating FutureOrders::DateTimeAcceptedByPOS2100 with (DATE)0. Let the default field value handle it.
- 1.0.0.35 March 25, 2021
Removed some fields from class POSBOSoftwareOptions that are not accessed by this application or any for that matter.

7.0 POS2100AUX.DLL Revision History

1.0.0.3 November 1, 2016
Initial Release.

1.0.0.4 December 9, 2016
Added "FixedMenuType" flag to item sync. (POSItemFlagFixed_Cmt_Entries)

1.0.0.5 12-20-2016
Allow '0' list file number in item sync.
Sort on PLU-DCM descending list files first for easier debugging.
Add fire message code to allow full fire message functionality.

1.0.0.6 1-8-2017
FireMessage Find(...) was missing MoveFirst().

1.0.0.7 1-13-2017 (Friday)
Add smart condiment chain fields to desptops and positems.
Add description to error message when item is not found.
Add AddToCoversByItemOnly to manage orderpad covers button availability.

1.0.0.8 1-18-2017
Stop sending ListFileNumber=0 in "MenuItemList". Only used in desktops as a place holder.
Added DISTINCT to stop sending the same listfile multiple times if it was on multiple menu records.

1.0.0.9 1-19-2017
Added customer name field.

1.0.0.10 4-10-2017
Added Limited Quantity request-response. Added LQ count updating and insufficient stock checking.

1.0.0.11 4-24-2017
Fixed enterprise json file name to use sales date.

1.0.0.12 5-1-2017
Added "TerminalNumber" field to orders to override default terminal number.

1.0.0.14 5-22-2017
Added check for "Active" when looking for cashier record.

1.0.0.15 7-5-2017
Stopped rejecting orders when limited quantity item's stock is depleted.

1.0.0.16 9-28-2017
Rebuild to use the updated enterprise json file name with seconds.

1.0.0.17 2-16-2018
Added "ModifyMessage" field to ItemSync. Flag for user entered fire messages.

1.0.0.18 9-25-2018
Updated json creation process to coincide with POS2100 1.0.3.935.

1.0.0.19 5-30-2019
Updated fire message remote group field change to coincide with POS2100 1.0.3.949.

1.0.0.20 8-1-2019

Added "ClosedOrders" array to "ListOrders" if "ListClosedOrders" is true, otherwise legacy "OpenOrders" array is returned.
Added "OpenSalesDate" to "ListOrders" header.
Updated "OrderSnapshot" to look in closed check file if check is not found in open check file.
Updated "OrderSnapshot" to look for "VendorOrderID" if "GuestCheckNumber" is empty.
Updated "OrderSnapshot" response to include "VendorOrderID".
Updated "ListOrders" response to include "VendorOrderID".

1.0.0.21 10-8-2019

Updated to lookup payment media id from "PaymentType"

1.0.0.22 11-20-2019

Added right 4 characters of vendor order id to requisition header.
Fixed sql server bug writing paid tip in TransactionDetailsPOS.
To get this bug to happen, you have to have Misc Options – Automatically Pay Tip checked.
Added right 4 characters of vendor order id to print check xml.
Rebuild to align with POS2100 962.Rebuild to align with POS2100 1.0.x.962.

1.0.0.23 01-23-2020

Updated to use alternate sql server credentials.
Bug fix. Zero amount tips, service charges, discounts, and payments were not being returned in response json.

1.0.0.24 03-17-2020

Updated order response to include vat itemizers.

1.0.0.25 06-08-2020

Added FutureOrders and FutureOrdersDeliveryInfo functionality.
Goal is to eventually deprecate INetOrder.dll
Using CBODaily::StoreNumbers for future orders guest check numbers.
Added "SalesTypeNumber" to ItemSync to harvest sales type itemizer bits for calculating itemizer tax.
If not provided we use vendor default sales type.
Added "ProductNumber" to ItemSync
Added "TrialOrder" to NewOrder and UpdateOrder.
For new trial order, we use guest check #9999
Added discounts, service charges and tips to item sync.
Added house charge validation endpoint.
Added house charge on guest check and house charge payment functionality.

1.0.0.26 7-27-2020

Updated to use vendor PrinterGroup for future order printing. Was using Print Check checkbox.
Updated to pass vendororderid, printer group and invoice number for printing.
Update to save future order records before printing so printcheck.dll can find delivery record.

1.0.0.27 7-28-2020

Stopped populating FutureOrders::DateTimeAcceptedByPOS2100 with (DATE)0. Let the default field value handle it.

1.0.0.28 8-14-2020

Enterprise json processing mode change.
Revert back to just adding the headerid and let the running pos2100.exe terminals do the actual processing.
Due to speed and support issues with changing CBOData_S.mdb links to a UNC to support macros.

1.0.0.29 9-21-2020

Trap "Delivery" : null. null was causing protection fault crash. Advised vendor to use empty object or omit.
Format passed customer name to only accept the first 30 bytes. Db size is 30.

1.0.0.30 1-26-2021

Added check for reservation section and reservationID in incoming json to identify a reservation linked order.

The order will be added to a guest check by POS2100.EXE when an INetReservation reservationID matches this reservationID.
Bug fix. Line item discount 'coupons' not being populated in snapshot return etc. Seems the static CouponListDetails was not being loaded at dll startup, so no criteria etc. was available and coupons were being removed when check was loaded and recalculated.

1.0.0.31 5-25-2021

Updated to obtain reservations venueid from RevenueCenterDefinitions if so programmed.

Removed references to unused fields in POSBOSoftwareOptions.

AcctPriceLevel,MemberSbtlDiscID,AcctAutoPriceShift,AcctAutoSbtlDiscount,MgrRqdManualAcctEntry,
OrderingSystemVendorID

Updated ItemSync to return all list files if VendorXMLID = "OpenTable"

Updated to accept 'store' local or UTC datetime data.

All dates sent will now be UTC ('Z').

UTC will be converted to local before being written to our db.

We support the following variations in the name of simplicity.

Local: 2021-05-19T14:30:15

UTC: 2021-05-19T19:30:15Z

UTC: 2021-05-19T14:30:15-05:00

1.0.0.32 5-3-2022

Updated to add ability to cancel an order that has not already been injected into the active POS2100 system.

1.0.0.33 6-24-2022

Added "RevenueCenterNumber" and "MemberID" to "ListOrders" response. (Annibel's)

Added "POSItemUniqueID" to line item discounts. (Annibel's)

Fixed bug that caused crash with some payment rejections. (Over Tender not allowed error)

1.0.0.34 8-5-2022

Added support for dojo printing.