Data Warehouse Web Service Developer Guide

Summary

This document describes the web service used to retrieve dealership data from the CDK Global Lightspeed Data Warehouse Web Service (hereafter referred to as 'Gateway').

Service Description

Protocol

The Gateway web service uses a RESTful web service protocol. The Gateway communicates exclusively using SSL over HTTP. All URLs should specify HTTPS. Almost all Gateway methods described here that retrieve data should use the HTTP GET method. Exceptions to the GET method are noted where applicable.

URL Handling

The base URL for all requests is int.LightspeedADP.com/lsapi. Most requests will take the form of int.LightspeedADP.com/lsapi/DataType/CustomerNo.

Date Formats

Any date passed on the url should be in ODBC format (yyyy-mm-dd). Dates delivered by the web service are in the ODBC format yyyy-mm-ddThh:mm:ss.nn and either represent the time zone on the dealer's server or in the case of DateGathered, the time on the Gateway servers.

Authentication

The web service uses a Basic authentication scheme. Username and password will be assigned when your account is setup. Basic authentication info must be included in every request. If it is missing, the service will not respond with an authentication challenge the way an interactive website would, it will simply return a 401 unauthorized error. For testing purposes you may use user name 'Sample' with password ' L1ght$p33d$amP1e'.

Content Types

By default, the Gateway returns JSON. If you prefer to consume XML, you can set the content type to text/xml and the Gateway will return XML.

Accept: text/xml

Exception Handling, Return Codes

All methods return a string. If the result is an exception on the server, the exception message is returned.

Successful responses for GET methods will always include an HTTP 200 return code. Other error codes typically returned will be 401 for authentication issues, 403 for authorization issues, 404 for resources that are not found, and 500 for other errors with accompanying error text.

Filtering Results / Query Parameters

Most of the datasets support filtering on many of the fields. This is implemented using the Open Data Protocol (OData) spec. For complete documentation, see *section 4. Query String Options in the OData documentation* on the OData spec site.

OData Features Supported

- Filter – Ability to filter results by specifying a 'where clause'.
- Top - Ability to limit maximum number of records returned. Note that there will be limits to how large this value can be. (Todo: document top limits)
- Skip – Ability to return 'pages' of information by specifying top n rows while skipping the first m rows so you can view a 'page' of the data.
- OrderBy – Ability to sort results.
- Logical Operators (And, Or, Not, Equal, etc)

OData Features Not Supported

- Select – Ability to specify which fields are returned.
- Expand – Ability to include or not include child records.
- InlineCount – Ability to return the total count of records matching a filter, even though a subset of those records are returned via top and skip.
- Format – Specify media format (json or xml). Although we do not support this via a query parameter, we already support it via the 'Accepts' header.
- Arithmetic operators (add, subtract, etc)
- Functions (StartsWith, EndsWith, SubString, etc)

OData Logical Operators

The following logical operators are valid in an OData Filter.

Operator	Example
Or	$filter=Price le 3.5 or Price gt 200
And	$filter=Price le 200 and Price gt 3.5
Equal	$filter=Address/City eq 'Redmond'
NotEqual	$filter=Address/City ne 'London'
GreaterThan	$filter=Price gt 20
GreaterThanOrEqual	$filter=Price ge 10
LessThan	$filter=Price lt 20
LessThanOrEqual	$filter=Price le 100
Not	$filter=not Price eq 20

Query Examples

Part/76024859?$top=3&$filter=PartNumber eq '10-106' and Avail gt 0

Part/76024859?$top=3&$filter=LastReceivedDate gt datetime'2014-01-01'

Part/76024859?$top=3&$filter=Retail gt 100.00m

Customer/76024859?$top=10&$filter=LastName eq 'simmons'

ServiceDet/76024859?$top=3&$filter=datein ge datetime'2014-01-28T00:00:00'

InvoiceSum/76024859?$top=3&$filter=Sales gt 600.00m

InvoiceDet/76024859?$top=3&$filter=price gt 600.00m&$orderby=InvoiceNo

ServiceSum/76024859?$top=3&$filter=WarrantyJob eq 0 and InternalJob eq 0

Deal/76024859?$top=3&$filter=FinanceDate eq datetime'2014-05-16T00:00:00'

Query Parameter Field Support

Most fields are supported for querying, but there are some that will not be supported – especially if the data is coming directly from the dealer's system database rather than the data warehouse. Notably under this DirectConnect circumstance, DateLastGathered may not be used in a query as it is always set to the current time. DealerId or Cmf are never allowed in the query as they are always specified in their own segment of the URL.

Data Types

Several different data types are supported by the web service. All data types are simply a string and are case sensitive. The only data types currently described in this document are

Dealer	Dealership Information
License	Dealership Licensing Information
Part	Parts Inventory
Unit	Major Unit Inventory
Deal	Sales Deal Summary
DealDetail	Sales Deal Detail
Customer	Customers
ServiceSum	Service Summary
ServiceDet	Service Detail
InvoiceSum	Parts Invoicing Summary
InvoiceDet	Parts Invoicing Detail

Dealer – Dealer Information

This data type does not require you to pass a dealer number. It returns a list of dealer numbers that you are authorized to access.

Fields

Field Name	Data Type	Description, Example
Cmf	varchar(20)	CDK Global Dealer Identifier
DealershipName	varchar(100)	Dealership Name
DealerNumber	varchar(50)	Third Party Dealer Identifier
DirectConnect	int	Flag if dealer's database is directly connected to the web service, providing real-time data for some datasets. 1 = True; 0 = False

Example URL

https:// int.LightspeedADP.com/lsapi/Dealer

Example JSON Result

```
[
    {
            "Cmf": "76147580",
            "DealershipName": "Sample Dealer",
            "DealerNumber": ""
    },
    {
            "Cmf": "76014682",
            "DealershipName": "Lightspeed Powersports",
            "DealerNumber": ""
    }
]
```

Example XML Result

```
<ArrayOfDealer>
    <Dealer>
            <Cmf>76147580</Cmf>
            <DealershipName>Sample Dealer</DealershipName>
            <DealerNumber/>
    </Dealer>
    <Dealer>
            <Cmf>76014682</Cmf>
            <DealershipName>Lightspeed Powersports</DealershipName>
            <DealerNumber/>
    </Dealer>
</ArrayOfDealer>
```

License – Dealership Licensing Information

This data type supports multiple methods for those partners who are authorized to edit their own dealer list.

License List(GET)

Using the http GET method, this method returns a list of licenses either from one dealer or one license type. Note that the same method can be used to get a list of licenses for one dealer or a list of dealers who are licensed for one product/service.

Fields

Field Name	Data Type	Description, Example
LicenseKey	varchar(20)	Key indicating license type
Cmf	varchar(10)	CDK Global Dealer Identifier
DealershipName	varchar(50)	Dealership Name
InstallDate	DateTime	Date license was issued

Example URL

https:// int.LightspeedADP.com/lsapi/License/Cmf/7601000

https:// int.LightspeedADP.com/lsapi/License/Key/Locator

Example JSON Result

```
[
        {
                "LicenseKey": "Locator",
                "Cmf": "76147580",
                "DealershipName": "Sample Dealer",
                "InstallDate": "2010-01-02T00:00:00"
        },
        {
                "LicenseKey": "Locator",
                "Cmf": "76014682",
                "DealershipName": "Lightspeed Powersports",
                "InstallDate": "2010-01-02T00:00:00"
        }
]
```

Example XML Result

```
<ArrayOfDealer>
        <Dealer>
                <LicenseKey>Locator</LicenseKey>
                <Cmf>76147580</Cmf>
                <DealershipName>Sample Dealer</DealershipName>
                <InstallDate>2010-01-02T00:00:00</InstallDate>
        </Dealer>
        <Dealer>
                <Cmf>76014682</Cmf>
                <DealershipName>Lightspeed Powersports</DealershipName>
                <InstallDate>2010-01-02T00:00:00</InstallDate>
        </Dealer>
</ArrayOfDealer>
```

License Edit (POST/DELETE)

Using the http POST method allows an authorized partner to add a dealer to the list of dealers authorized for your product/service.

Using the http DELETE method allows an authorized partner to remove a dealer from the list of dealers authorized for your product/service.

There are no results for either of these methods. On success, they return an http 204 (No Content). On errors other than authentication errors, the POST may return a 302 (Found) if the dealer is already in the list and the DELETE may return a 404 (Not Found) if the dealer record cannot be found.

Fields

Field Name	Data Type	Description, Example
LicenseKey	varchar(20)	Key indicating license type. Partners must be licensed to view their own license keys.
Cmf	varchar(10)	CDK Global Dealer Identifier. Dealers are usually familiar with this number and can provide it to you as a Lightspeed partner.

Example URLs

https:// int.LightspeedADP.com/lsapi/License?LicenseKey=XXX&Cmf=76010000

Part – Parts Inventory

Fields

Field Name	Data Type	Description, Example
DealerId	varchar(20)	Internal Dealer Identifier
Cmf	varchar(20)	CDK Global Dealer Identifier
PartNumber	varchar(25)	
SupplierCode	varchar(3)	
DateGathered	datetime	Time that record was updated from dealer
Description	varchar(30)	
OnHand	Int	
Avail	Int	
OnOrder	Int	
OnOrderAvail	Int	
LastSoldDate	date	
LastReceivedDate	date	
LastAdjustmentDate	date	
ReOrderMethod	varchar(1)	C = Sales Curve, F = Force M = Min/Max N = Never Order (Force to 0) F = Force to 1
MinimumQty	int	
MaximumQty	int	
Cost	money	
CurrentActivePrice	money	
Retail	money	
OrderUnit	varchar(3)	
OrderUnitQty	int	
LastCountDate	date	
SupersededTo	varchar(25)	
UPC	varchar(30)	
Bin1	varchar(30)	
Bin2	varchar(30)	
Bin3	varchar(30)	

Example URL

https://int.LightspeedADP.com/lsapi/Part/76010000

Example JSON Result

```
[
    {
        "Cmf":"76147580",
        "DealerId":"3165",
        "PartNumber":"00-1500",
        "SupplierCode":"NW",
        "DateGathered":"2012-05-18T04:00:39.313",
        "Description":"ECLIPSE ARMS ADJ PITCH WH",
        "OnHand":0,
        "Avail":0,
        "OnOrder":0,
        "OnOrderAvail":0,
```

```
            "LastSoldDate":"1900-01-01T00:00:00",
            "LastReceivedDate":"1900-01-01T00:00:00",
            "LastAdjustmentDate":"1900-01-01T00:00:00",
            "ReOrderMethod":"C",
            "MinimumQty":0,
            "MaximumQty":0,
            "Cost":857.7500,
            "CurrentActivePrice":1159.4900,
            "OrderUnit":"",
            "OrderUnitQty":0,
            "Retail":1159.4900,
            "LastCountDate":"1900-01-01T00:00:00",
            "SupersededTo":"00-1600",
            "UPC":"123456789",
            "Bin1":"NW",
            "Bin2":"",
            "Bin3":"",
        }
]
```

Example XML Result

```
<ArrayOfPart>
        <Part>
                <Cmf>76147580</Cmf>
                <Avail>0</Avail>
                <Cost>857.7500</Cost>
                <CurrentActivePrice>1159.4900</CurrentActivePrice>
                <DateGathered>2012-05-18T04:00:39.313</DateGathered>
                <DealerId>3165</DealerId>
                <Description>ECLIPSE ARMS ADJ PITCH WH</Description>
                <LastAdjustmentDate>1900-01-01T00:00:00</LastAdjustmentDate>
                <LastReceivedDate>1900-01-01T00:00:00</LastReceivedDate>
                <LastSoldDate>1900-01-01T00:00:00</LastSoldDate>
                <MaximumQty>0</MaximumQty>
                <MinimumQty>0</MinimumQty>
                <OnHand>0</OnHand>
                <OnOrder>0</OnOrder>
                <OnOrderAvail>0</OnOrderAvail>
                <OrderUnit></OrderUnit>
                <OrderUnitQty>0</OrderUnitQty>
                <PartNumber>00-1500</PartNumber>
                <ReOrderMethod>C</ReOrderMethod>
                <Retail>1159.4900</Retail>
                <SupplierCode>NW</SupplierCode>
                <LastCountDate>1900-01-01T00:00:00</LastCountDate>
                <SupersededTo>00-1600</SupersededTo>
                <UPC>123456789</UPC>
                <Bin1>NW</Bin1>
                <Bin2></Bin2>
                <Bin3></Bin3>
        </Part>
</ArrayOfPart>
```

Unit – Major Unit Inventory

Fields - Unit

Field Name	Data Type	Description, Example
DealerId	varchar(20)	Internal Dealer Identifier
CMF	varchar(20)	CDK Global Dealer Id
MajorUnitHeaderId	bigint	
DateGathered	datetime	Time that record was updated from dealer
UnitStatus	varchar(1)	ACTIVE = '' REQUESTED = 'R' ORDERED = 'O'
StockNumber	varchar(30)	
NewUsed	varchar(1)	
ModelYear	int	4 digits
Make	varchar(30)	
Model	varchar(30)	
VIN	varchar(30)	
Location	varchar(30)	
Odometer	varchar(30)	
Cylinders	int	
HP	decimal	
BodyStyle	varchar(30)	
Color	varchar(30)	
Condition	varchar(30)	
Class	varchar(2)	Dealer specified class code for this unit
CodeName	varchar(30)	Code name or popular identifier for this unit
InvoiceDate	datetime	
InvoiceAmt	money	
TotalCost	money	InvoiceAmt + FreightCost + PartsCost + LaborCost
DSRP	money	
MSRP	money	
OnHold	varchar(40)	Deal Number or reason on hold – empty string if not on hold
PackageID	varchar(20)	Internal Package Identifier
DateReceived	datetime	
Length	decimal	
Height	decimal	
Width	decimal	
Draft	decimal	
Beam	decimal	
GVWR	int	
GDW	Int	
InteriorColor	varchar(50)	
ExteriorColor	varchar(50)	
Manufacturer	varchar(50)	
UnitType	varchar(50)	
FloorLayout	varchar(50)	

FreightCost	money	
FuelType	varchar(50)	
UnitName	varchar(50)	
HullConstruction	varchar(50)	
Comments	varchar(100)	
WebUnit	tinyint	
WebTitle	varchar(250)	Short description to be displayed on website
WebDescription	varchar(5000)	Long description to be displayed on website
WebPrice	money	Price of unit to be displayed on website
WebPriceHidden	tinyint	Flag to indicate dealer should be called for price
Parts		Container for an array of Part objects
Options		Container for an array of Option objects
UserDefined1	varchar(50)	
UserDefined2	varchar(50)	
UserDefined3	varchar(50)	
UserDefined4	varchar(50)	
UserDefined5	varchar(50)	
UserDefined6	varchar(50)	
UserDefined7	varchar(50)	
UserDefined8	varchar(50)	
UserDefined9	varchar(50)	
UserDefined10	varchar(50)	
UserDefined11	money	
UserDefined12	money	
UserDefined13	money	
UserDefined14	money	
UserDefined15	money	
UserDefined16	int	
UserDefined17	int	
UserDefined18	int	
UserDefined19	int	
UserDefined20	int	
UserDefined1desc	varchar(50)	
UserDefined2desc	varchar(50)	
UserDefined3desc	varchar(50)	
UserDefined4desc	varchar(50)	
UserDefined5desc	varchar(50)	
UserDefined6desc	varchar(50)	
UserDefined7desc	varchar(50)	
UserDefined8desc	varchar(50)	
UserDefined9desc	varchar(50)	
UserDefined10desc	varchar(50)	
UserDefined11desc	varchar(50)	
UserDefined12desc	varchar(50)	
UserDefined13desc	varchar(50)	
UserDefined14desc	varchar(50)	
UserDefined15desc	varchar(50)	
UserDefined16desc	varchar(50)	
UserDefined17desc	varchar(50)	
UserDefined18desc	varchar(50)	

Titlestatus	varchar(50)	
Trimcolor	varchar(50)	
Unitcondition	varchar(50)	
Carbcompliance	varchar(50)	
Drivetype	varchar(50)	
Enginecycles	varchar(50)	
Powertype	varchar(50)	
Starttype	varchar(50)	
Numacunits	int	
Sleepcapacity	int	
Barlength	int	
Bladelength	int	
Cuttingwidth	int	
Videourl	varchar(200)	
Numslideouts	int	
Turningradius	varchar(50)	
UserDefined19desc	varchar(50)	
UserDefined20desc	varchar(50)	

Fields – Unit.Parts.Part

Field Name	Data Type	Description, Example
DealerId	varchar(20)	
Description	varchar(50)	
SetupInstall	varchar(1)	S-Setup, I-Install, N-No Labor Attached
Qty	int	
Cost	decimal	
Price	decimal	

Fields – Unit.Options.Option

Field Name	Data Type	Description, Example
Description	varchar(50)	

Fields – Unit.Labor

Field Name	Data Type	Description, Example
DealerId	varchar(20)	
MajorUnitHeaderId	long	
MajorUnitLaborId	long	
Description	varchar(50)	
SetupInstall	varchar(1)	
Cost	decimal	
Price	decimal	
Subletcost	decimal	
SubletPrice	decimal	

Example URL

https://int.LightspeedADP.com/lsapi/Unit/76024859

Example JSON Result

```
[
        {
                "TotalCost":1728.6500,
                "Cmf":"76024859",
                "DealerId":"I013",
                "MajorUnitHeaderId":70,
                "DateGathered":"2014-03-10T11:48:04.327",
                "StockNumber":"H001910",
                "NewUsed":"N",
                "ModelYear":2009,
                "Make":"HONDA",
                "Model":"CRF230F8",
                "VIN":"9C2ME090X8R001910",
                "Class":"D",
                "CodeName":"",
                "Location":"",
                "Odometer":"",
                "Cylinders":0,
                "HP":0.0000,
                "BodyStyle":"",
                "Color":"RED",
                "Condition":"",
                "InvoiceDate":"2010-05-31T00:00:00",
                "InvoiceAmt":1187.0000,
                "FreightCost":0.0000,
                "DSRP":3489.0000,
                "MSRP":3649.0000,
                "OnHold":"Deal: 57",
                "PackageId":0,
                "DateReceived":"2010-05-31T00:00:00",
                "Length":0.0000,
                "Height":0.0000,
                "Width":0.0000,
                "Draft":0.0000,
                "Beam":0.0000,
                "GVWR":0,
                "GDW":0,
                "InteriorColor":"",
                "ExteriorColor":"",
                "Manufacturer":"",
                "UnitType":"",
                "FloorLayout":"",
                "FuelType":"",
                "UnitName":"",
                "HullConstruction":"",
```

```
            "Comments":"",
            "UnitStatus":"",
            "WebUnit":0,
            "WebTitle":"2009 HONDA CRF230F8",
            "WebDescription":"2009 HONDA CRF230F8",
            "WebPrice":3489.0000,
            "WebPriceHidden":0,
            "Parts":
            [
                    {"Description":"Joes Jacket - Standard Black L"},BATTERY (Y50-
N18L-A)",

                    {"Description":"CARB REPAIR KITS"},
                    {"Description":"BEARING AY"}
                    "SetupInstall":"N",
                    "Qty":0,
                    "Cost":65.0000,
                    "Price":65.0000}
            ],
            "Options":[]
        },
        {

            "TotalCost":2250.4200,
            "Cmf":"76024859",
            "DealerId":"I013",
            "MajorUnitHeaderId":265,
            "DateGathered":"2014-03-10T11:48:04.787",
            "StockNumber":"11012013",
            "NewUsed":"N",
            "ModelYear":2013,
            "Make":"HONDA",
            "Model":"modelxyz",
            "VIN":"vin1234567",
            "Class":"M",
            "CodeName":"modelnam",
            "Location":"location",
            "Odometer":"1001",
            "Cylinders":95,
            "HP":10.5000,
            "BodyStyle":"body type",
            "Color":"Blue",
            "Condition":"1009",
            "InvoiceDate":"2013-11-01T00:00:00",
            "InvoiceAmt":1000.0100,
            "FreightCost":100.0100,
            "DSRP":2001.0000,
            "MSRP":2010.0000,
            "OnHold":"",
            "PackageId":0,
            "DateReceived":"2013-01-02T00:00:00",
            "Length":0.0000,
            "Height":0.0000,
            "Width":0.0000,
```

```
"Draft":0.0000,
"Beam":0.0000,
"GVWR":0,
"GDW":0,
"InteriorColor":"",
"ExteriorColor":"",
"Manufacturer":"",
"UnitType":"body type",
"UserDefined1": "",
"UserDefined2": "",
"UserDefined3": "",
"UserDefined4": "",
"UserDefined5": "",
"UserDefined6": "",
"UserDefined7": "",
"UserDefined8": "",
"UserDefined9": "",
"UserDefined10": "",
"UserDefined11": "",
"UserDefined12": "",
"UserDefined13": "",
"UserDefined14": "",
"UserDefined15": "",
"UserDefined16": "",
"UserDefined17": "",
"UserDefined18": "",
"UserDefined19": "",
"UserDefined20": "",
"UserDefined1desc": "",
"UserDefined2desc": "",
"UserDefined3desc": "",
"UserDefined4desc": "",
"UserDefined5desc": "",
"UserDefined6desc": "",
"UserDefined7desc": "",
"UserDefined8desc": "",
"UserDefined9desc": "",
"UserDefined10desc": "",
"UserDefined11desc": "",
"UserDefined12desc": "",
"UserDefined13desc": "",
"UserDefined14desc": "",
"UserDefined15desc": "",
"UserDefined16desc": "",
"UserDefined17desc": "",
"UserDefined18desc": "",
"UserDefined19desc": "",
"UserDefined20desc": "",
"titlestatus": "clean",
"trimcolor": "",
"unitcondition" : "excellent",
"carbcompliance" : "";
```

```
"drivetype" : "";
"enginecycles" : "";
"powertype" : "";
"starttype" : "";
"numacunits" : "";
"sleepcapacity" : "";
"barlength" : "";
"bladelength" : "";
"cuttingwidth" : "";
"videourl" : "";
"numslideouts" : "";
"turningradius" : "";
"FloorLayout":"",
"FuelType":"",
"UnitName":"",
"HullConstruction":"",
"Comments":"these are the comments",
"UnitStatus":"",
"WebUnit":1,
"WebTitle":"2013 HONDA modelnam",
"WebDescription":"2013 HONDA modelnam (modelxyz)",
"WebPrice":2001.0000,
"WebPriceHidden":0,
"Parts":
[
        {"Description":"Misc part"},
        {"Description":"B1 15X42X13 BEA"},
        {"Description":"CLAMP"},
        {"Description":"Joes Jacket - Standard Black L"},
        {"Description":"B1 17X35X10 BEA"},
        {"Description":"C110 LG SIDE BAG"},
        {"Description":"B1 15X42X13 BEA"},
        {"Description":"B1 15X42X13 BEA"},
        {"Description":"STUD"},
        {"Description":"O-RING"},
        {"Description":"FOG LAMP LG"},
        {"Description":"CARB REPAIR KITS"},
        {"Description":"FOG LAMP LG"},
        {"Description":"B1 9X32X15 BEAR"}
],
"Options":
[
        {"Description":"1100 SPORT PRO EXHAUST KIT","OptionType":"D"},
        {"Description":"HIGH PERFORMANCE FUEL SYS", "OptionType":"D"}
],
"Labor":
[
        {
        "DealerId":"",
        "MajorUnitHeaderId":"12345678",
        "MajorUnitLaborId":"12345678",
        "Description":"Description",
```

```
            "SetupInstall":"S",
            "Cost":"40.00",
            "Price":"60:00",
            "SubletCost":"0.00",
            "SubletPrice":"0.00"
            }
        ]

    },
]
```

Example XML Result

```
<ArrayOfUnit>
    <Unit>
        <Cmf>76024859</Cmf>
        <Beam>0.0000</Beam>
        <BodyStyle></BodyStyle>
        <Class>D</Class>
        <CodeName></CodeName>
        <Color>RED</Color>
        <Comments></Comments>
        <Condition></Condition>
        <Cylinders>0</Cylinders>
        <DSRP>3489.0000</DSRP>
        <DateGathered>2014-03-10T11:48:04.327</DateGathered>
        <DateReceived>2010-05-31T00:00:00</DateReceived>
        <DealerId>I013</DealerId>
        <Draft>0.0000</Draft>
        <ExteriorColor></ExteriorColor>
        <FloorLayout></FloorLayout>
        <FreightCost>0.0000</FreightCost>
        <FuelType></FuelType>
        <GDW>0</GDW>
        <GVWR>0</GVWR>
        <HP>0.0000</HP>
        <Height>0.0000</Height>
        <HullConstruction></HullConstruction>
        <InteriorColor></InteriorColor>
        <InvoiceAmt>1187.0000</InvoiceAmt>
        <InvoiceDate>2010-05-31T00:00:00</InvoiceDate>
```

```
<Length>0.0000</Length>

<Location></Location>

<MSRP>3649.0000</MSRP>

<MajorUnitHeaderId>70</MajorUnitHeaderId>

<Make>HONDA</Make>

<Manufacturer></Manufacturer>

<Model>CRF230F8</Model>

<ModelYear>2009</ModelYear>

<NewUsed>N</NewUsed>

<Odometer></Odometer>

<OnHold>Deal: 57</OnHold>

<Options />

<PackageId>0</PackageId>

<Parts>

        <Part><Description>Joes Jacket - Standard Black L

                </Description></Part>

        <Part><Description>CARB REPAIR KITS</Description></Part>

        <Part><Description>BEARING AY</Description></Part>

                <SetupInstall>N</SetupInstall>
                <Qty>1</Qty>
                <Cost>50</Cost>
                <Price>50</Price>
        </Part>

</Parts>

<StockNumber>H001910</StockNumber>

<TotalCost>1728.6500</TotalCost>

<UnitName></UnitName>

<UnitStatus></UnitStatus>

<UnitType></UnitType>

<VIN>9C2ME090X8R001910</VIN>

<WebDescription>2009 HONDA CRF230F8</WebDescription>

<WebPrice>3489.0000</WebPrice>

<WebPriceHidden>0</WebPriceHidden>

<WebTitle>2009 HONDA CRF230F8</WebTitle>

<WebUnit>0</WebUnit>

<Width>0.0000</Width>

    </Unit>

    <Unit>
```

```
<Cmf>76024859</Cmf>

<Beam>0.0000</Beam>

<BodyStyle>body type</BodyStyle>

<Class>M</Class>

<CodeName>modelnam</CodeName>

<Color>Blue</Color>

<Comments>these are the comments</Comments>

<Condition>1009</Condition>

<Cylinders>95</Cylinders>

<DSRP>2001.0000</DSRP>

<DateGathered>2014-03-10T11:48:04.787</DateGathered>

<DateReceived>2013-01-02T00:00:00</DateReceived>

<DealerId>I013</DealerId>

<Draft>0.0000</Draft>

<ExteriorColor></ExteriorColor>

<FloorLayout></FloorLayout>

<FreightCost>100.0100</FreightCost>

<FuelType></FuelType>

<GDW>0</GDW>

<GVWR>0</GVWR>

<HP>10.5000</HP>

<Height>0.0000</Height>

<HullConstruction></HullConstruction>

<InteriorColor></InteriorColor>

<InvoiceAmt>1000.0100</InvoiceAmt>

<InvoiceDate>2013-11-01T00:00:00</InvoiceDate>

<Length>0.0000</Length>

<Location>location</Location>

<MSRP>2010.0000</MSRP>

<MajorUnitHeaderId>265</MajorUnitHeaderId>

<Make>HONDA</Make>

<Manufacturer></Manufacturer>

<Model>modelxyz</Model>

<ModelYear>2013</ModelYear>

<NewUsed>N</NewUsed>

<Odometer>1001</Odometer>

<OnHold></OnHold>
```

```xml
<Options>
        <Option><Description>1100 SPORT PRO EXHAUST KIT
                </Description><OptionType>D</OptionType></Option>
        <Option><Description>HIGH PERFORMANCE FUEL SYS
                </Description><OptionType>D</OptionType></Option>
</Options>
<PackageId>0</PackageId>
<Parts>
        <Part><Description>Misc part</Description></Part>
        <Part><Description>B1 15X42X13 BEA</Description></Part>
        <Part><Description>CLAMP</Description></Part>
        <Part><Description>Joes Jacket - Standard Black L
                </Description></Part>
        <Part><Description>B1 17X35X10 BEA</Description></Part>
        <Part><Description>C110 LG SIDE BAG</Description></Part>
        <Part><Description>B1 15X42X13 BEA</Description></Part>
        <Part><Description>B1 15X42X13 BEA</Description></Part>
        <Part><Description>STUD</Description></Part>
        <Part><Description>O-RING</Description></Part>
        <Part><Description>FOG LAMP LG</Description></Part>
        <Part><Description>CARB REPAIR KITS</Description></Part>
        <Part><Description>FOG LAMP LG</Description></Part>
        <Part><Description>B1 9X32X15 BEAR</Description></Part>
</Parts>
<Labor>
        <MajorUnitHeaderId>12345678</MajorUnitHeaderId>
        <MajorUnitLaborId>12345678</MajorUnitLaborId>
        <Description>This is Labor</Description>
        <SetupInstall>S</SetupInstall>
        <Cost>40.00</Cost>
        <Price>60.00</Price>
        <SubletCost>0.00</SubletCost>
        <SubletPrice>0.00</SubletPrice>
</Labor>
<StockNumber>11012013</StockNumber>
<TotalCost>2250.4200</TotalCost>
<UnitName></UnitName>
```

```
<UnitStatus></UnitStatus>
<UnitType>body type</UnitType>
<UserDefined1></UserDefined1>
<UserDefined2></UserDefined2>
<UserDefined3></UserDefined3>
<UserDefined4></UserDefined4>
<UserDefined5></UserDefined5>
<UserDefined6></UserDefined6>
<UserDefined7></UserDefined7>
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<UserDefined18></UserDefined18>
<UserDefined19></UserDefined19>
<UserDefined20></UserDefined20>
<UserDefined1desc></UserDefined1desc>
<UserDefined2desc></UserDefined2desc>
<UserDefined3desc></UserDefined3desc>
<UserDefined4desc></UserDefined4desc>
<UserDefined5desc></UserDefined5desc>
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<UserDefined10desc></UserDefined10desc>
<UserDefined11desc></UserDefined11desc>
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<UserDefined13desc></UserDefined13desc>
<UserDefined14desc></UserDefined14desc>
<UserDefined15desc></UserDefined15desc>
```

```
                <UserDefined16desc></UserDefined16desc>

                <UserDefined17desc></UserDefined17desc>

                <UserDefined18desc></UserDefined18desc>

                <UserDefined19desc></UserDefined19desc>

                <UserDefined20desc></UserDefined20desc>

                <titlestatus>Clean</titlestatus>

                <trimcolor></trimcolor>

                <unitcondition></unitcondition>

                <carbcompliance></carbcompliance>

                <drivetype></drivetype>

                <enginecycles></enginecycles>

                <powertype></powertype>

                <starttype></starttype>

                <numacunits></numacunits>

                <sleepcapacity></sleepcapacity>

                <barlength></barlength>

                <bladelength></bladelength>

                <cuttingwidth></cuttingwidth>

                <videourl></videourl>

                <numslideouts></numslideouts>

                <turningradius></turningradius>

                <VIN>vin1234567</VIN>

                <WebDescription>2013 HONDA modelnam (modelxyz)</WebDescription>

                <WebPrice>2001.0000</WebPrice>

                <WebPriceHidden>0</WebPriceHidden>

                <WebTitle>2013 HONDA modelnam</WebTitle>

                <WebUnit>1</WebUnit>

                <Width>0.0000</Width>

        </Unit>

</ArrayOfUnit>
```

Deal – Sales Deals Summary

Fields

Field Name	Data Type	Description, Example
DealerId	varchar(20)	Internal Dealer Identifier
Cmf	varchar(20)	CDK Global Dealer Identifier
DealNo	varchar(20)	Deal (Worksheet) Number
DeliveryDate	datetime	

FinanceDate	datetime	
FinInvoiceId	int	Internal ID – increments after refinalization
OriginatingDate	datetime	
TotalPartsAmount	money	Sum of all parts on deal
Class	Varchar(2)	Dealer specific class of unit
DealUnitId	int	
Make	Varchar(20)	
Model	Varchar(20)	
Year	Varchar(4)	
Newused	varchar(1)	N = new U = used
UnitPrice	money	
UnitSoldPrice	money	Unitprice + freight + handling – tradeall + tradeacv + totaccy + totinstall
VIN	Varchar(25)	

Example URL

https://int.LightspeedADP.com/lsapi/Deal/76010000

Example JSON Result

```
[

    {"Cmf":"76014540",

    "DealerId":"3531",

    "DealNo":"1012198",

    "FinInvoiceId":10448470,

    "FinanceDate":"2013-08-23T00:00:00",

    "OriginatingDate":"2013-06-25T00:00:00",

    "DeliveryDate":"2013-06-25T00:00:00",

    "Units":

        [

        {"DealUnitId":5161499,

        "Newused":"N",

        "Year":"2013",

        "Make":"HONDA",

        "Model":"CRF450RD",

        "VIN":"JH2PE0539DK203540",

        "Class":"G",

        "Unitprice":6653.0000,

        "UnitSoldPrice":6653.0000,

        "TotalPartsAmount":0.0}

        ]
```

```
        }
]
```

Example XML Result

```
<ArrayOfDeal xmlns:i="http://www.w3.org/2001/XMLSchema-instance">

        <Deal>

        <Cmf>76014540</Cmf>

        <DealNo>1012198</DealNo>

        <DealerId>3531</DealerId>

        <DeliveryDate>2013-06-25T00:00:00</DeliveryDate>

        <FinInvoiceId>10448470</FinInvoiceId>

        <FinanceDate>2013-08-23T00:00:00</FinanceDate>

        <OriginatingDate>2013-06-25T00:00:00</OriginatingDate>

        <Units>

                <Unit>

                <Class>G</Class>

                <DealUnitId>5161499</DealUnitId>

                <Make>HONDA</Make>

                <Model>CRF450RD</Model>

                <Newused>N</Newused>

                <TotalPartsAmount>0</TotalPartsAmount>

                <UnitSoldPrice>6653.0000</UnitSoldPrice>

                <Unitprice>6653.0000</Unitprice>

                <VIN>JH2PE0539DK203540</VIN>

                <Year>2013</Year>

                </Unit>

        </Units>

</Deal>
```

DealDetail – Sales Deals Detail

Example URL

https://int.LightspeedADP.com/lsapi/DealDetail/76010000

Fields

Field Name	Data Type	Description, Example
DealerId	varchar(20)	Internal Dealer Identifier
Cmf	varchar(20)	CDK Global Dealer Identifier
Dealno	varchar(20)	
FinInvoiceID	int	
FinanceDate	date	

OriginatingDate	date	
DeliveryDate	date	Internal ID – increments after refinalization
Salesmanid	varchar(15)	
Clpremium	money	Sum of all parts on deal
Clcost	money	Dealer specific class of unit
Ahpremium	money	
Ahcost	money	
CustID	varchar(12)	
Lienholder	varchar(90)	
DealUnitID	long	
Newused	varchar(2)	
Year	varchar(4)	
Make	varchar(20)	
Model	varchar(20)	
VIN	varchar(25)	
Class	varchar(2)	
Unitprice	money	
Mucost	money	
Freight	money	
Freightcost	money	
Handling	money	
Handlingcost	money	
Licfees	money	
LicFeesCost	money	
Totaccy	money	
Totinstall	money	
Tradeall	money	
Tradeacv	money	
DateReceived	date	
Servcont	money	
Sccost	money	
Probliab	money	
Plcost	money	
SalesType	varchar(1)	R=Retail, W=Wholesale
UnitSoldPrice	money	Unitprice+freight+handling-Tradeall+Traceacv+Totaccy+totinstall
TotalPartsAmount	money	Sum(qty*price)
DaysInStore	int	(CurrentTime) – DateReceived displayed in days
UnitLine1	money	
UnitLine2	money	
UnitLine3	money	
UnitLine4	money	
UnitLine5	money	
UnitLine6	money	
UnitLine7	money	
UnitLine8	money	
UnitLine9	money	
UnitLine10	money	
UnitLine12	money	

PartNumber	varchar(20)	
Suppliercode	varchar(3)	
Qty	int	
Cost	money	
Price	money	
Retail	money	
SetupInstall	varchar(1)	
VIN	varchar	Trade VIN
StdMake	varchar	Trade Standardized Make
StdModel	varchar	Trade Standardized Model
StdYear	varchar	Trade Standardized Year
StdCategory	varchar	Trade Standardized Category
AmtFinanced	money	
Term	int	
Rate	money	
Payment	money	
SalesmanName	varchar	
Odometer	varchar	
Color	varchar	
DaysToFirst	int	
Description	varchar	Part description in 'Parts' child element

Example JSON Result

```
[
        {
        "Cmf":"76010000",
        "DealerId":"0001",
        "DealNo":"1011499",
        "FinInvoiceId":10816444,
        "FinanceDate":"2013-09-24T00:00:00",
        "OriginatingDate":"2013-09-23T00:00:00",
        "DeliveryDate":"2013-09-23T00:00:00",
        "salesmanid":"LH",
        "clpremium":0.0000,
        "clcost":0.0000,
        "ahpremium":0.0000,
        "ahcost":0.0000,
        "CustID":"10799428",
        "lienholder":"NONE",
        "SalesmanName":"Joe King",
        "AmtFinanced":0,
        "Term":120,
        "Rate":5.999,
```

"DaysToFirst":30,

"Payment":0,

"Units":[{

"DealerId": "",

"DealUnitId":10799439,

"Newused":"N",

"Year":"2013",

"Make":"KAWASAKI",

"Model":"JT1500JDF",

"VIN":"US-KAW40474K213",

"Class":"W",

"Unitprice":13965.5200,

"mucost":13524.0000,

"Freight":348.0000,

"Freightcost":0.0000,

"Handling":399.4700,

"Handlingcost":291.9000,

"LicFees":21.0000,

"LicFeesCost":21.0000,

"Totaccy":0.0000,

"Totinstall":0.0000,

"Tradeall":500.0000,

"Tradeacv":100.0000,

"DateReceived":"2013-02-07T00:00:00",

"servcont":0.0000,

"sccost":0.0000,

"propliab":0.0000,

"plcost":0.0000,

"SalesType":"W",

"UnitSoldPrice":14312.9900,

"TotalPartsAmount":0.0000,

"DaysInStore":272,

"Odometer":1000,

"Color":"Black",

"UnitLine1":0.0000,

"UnitLine2":1.5000,

"UnitLine3":294.0000,

```
                        "UnitLine4":0.0000,

                        "UnitLine5":0.0000,

                        "UnitLine6":0.0000,

                        "UnitLine7":0.0000,

                        "UnitLine8":0.0000,

                        "UnitLine9":0.0000,

                        "UnitLine10":0.0000,

                        "UnitLine11":0.0000,

                        "UnitLine12":0.0000,

                        "Parts":[{

                                        "DealerId": "",

                                        "PartNumber":"GAS",

                                        "SupplierCode":"AC",

                                        "Qty":10,

                                        "Cost":4.3500,

                                        "Price":0.0000,

                                        "Retail":4.3500,

                                        "SetupInstall":"S",

                                        "Description":"Fuel"

                                        }]

                }],

        "Trade":[{

                                "DealerId": "",

                                "VIN":"KAW45752B494",

                                "StdMake":"NA",

                                "StdModel":"NA",

                                "StdYear":"NA",

                                "StdCategory":"NA"

                }]

        }

]
```

Example XML Result

```
<ArrayOfDealDetail xmlns:i="http://www.w3.org/2001/XMLSchema-instance">

<DealDetail>

        <Cmf>76010000</Cmf>
```

```
<DealNo>1011487</DealNo>

<DealerId>0001</DealerId>

<DeliveryDate>2013-09-19T00:00:00</DeliveryDate>

<FinInvoiceId>10848385</FinInvoiceId>

<FinanceDate>2013-09-27T00:00:00</FinanceDate>

<OriginatingDate>2013-09-19T00:00:00</OriginatingDate>

<Trade>

                <DealerId></DealerId>

                <VIN>JS1NJ4CAXD2100433</VIN>

                <StdMake>SUZUKI</StdMake>

                <StdModel>TU250</StdModel>

                <StdYear>2013</StdYear>

                <StdCategory></StdCategory>

</Trade>

<Units>

        <Unit>

                <DealerId></DealerId>

                <Class>S</Class>

                <DateReceived>2013-09-19T00:00:00</DateReceived>

                <DaysInStore>48</DaysInStore>

                <DealUnitId>10760257</DealUnitId>

                <Freight>0.0000</Freight>

                <Freightcost>0.0000</Freightcost>

                <Handling>96.0000</Handling>

                <Handlingcost>96.0000</Handlingcost>

                <LicFees>0.0000</LicFees>

                <LicFeesCost>0.0000</LicFeesCost>

                <Make>KAWASAKI</Make>

                <Model>VN900BCFA</Model>

                <Newused>N</Newused>

                <Parts>

                        <Part>

                                <DealerId></DealerId>

                                <Cost>39.9500</Cost>

                                <PartNumber>410695</PartNumber>

                                <Price>39.9500</Price>

                                <Qty>1</Qty>
```

```
                    <Retail>39.9500</Retail>

                    <SetupInstall>S</SetupInstall>

                    <SupplierCode>TR</SupplierCode>

                    <Description>Sprocket</Description>

            </Part>

        </Parts>

        <SalesType>W</SalesType>

        <Totaccy>0.0000</Totaccy>

        <TotalPartsAmount>0</TotalPartsAmount>

        <Totinstall>0.0000</Totinstall>

        <Tradeacv>0.0000</Tradeacv>

        <Tradeall>0.0000</Tradeall>

        <UnitLine1>0.0000</UnitLine1>

        <UnitLine10>0.0000</UnitLine10>

        <UnitLine11>0.0000</UnitLine11>

        <UnitLine12>0.0000</UnitLine12>

        <UnitLine2>0.0000</UnitLine2>

        <UnitLine3>0.0000</UnitLine3>

        <UnitLine4>0.0000</UnitLine4>

        <UnitLine5>0.0000</UnitLine5>

        <UnitLine6>0.0000</UnitLine6>

        <UnitLine7>0.0000</UnitLine7>

        <UnitLine8>0.0000</UnitLine8>

        <UnitLine9>0.0000</UnitLine9>

        <UnitSoldPrice>96.0000</UnitSoldPrice>

        <Unitprice>0.0000</Unitprice>

        <VIN>JKAVN2B16CA071401</VIN>

        <Year>2012</Year>

        <mucost>0.0000</mucost>

        <plcost>0.0000</plcost>

        <propliab>0.0000</propliab>

        <sccost>0.0000</sccost>

        <servcont>0.0000</servcont>

        <Odometer>1000</Odometer>

        <Color>Black</Color>

    </Unit>

</Units>
```

```
<ahcost>0.0000</ahcost>

<ahpremium>0.0000</ahpremium>

<clcost>0.0000</clcost>

<clpremium>0.0000</clpremium>

<CustID>6323256</CustID>

<lienholder>NONE</lienholder>

<salesmanid>TR</salesmanid>

<AmtFinanced>0</AmtFinanced>

<DaysToFirst>30</DaysToFirst>

<Term>120</Term>

<Rate>5.999</Rate>

<Payment>0</Payment>

<SalesmanName>Joe King</SalesmanName>

</DealDetail>
```

Customer – Customer Information

Fields

Field Name	Data Type	Description, Example
DealerId	varchar(20)	Internal Dealer Identifier
Cmf	varchar(20)	CDK Global Dealer Identifier
Address1	varchar(50)	
Address2	varchar(50)	
Birthdate	date	
City	varchar(50)	Internal ID – increments after refinalization
Country	varchar(30)	
County	varchar(30)	Sum of all parts on deal
CustFullName	varchar(50)	Dealer specific class of unit
CustomerId	bigint	
Email	varchar(255)	Must match 'something@something.domain' or a blank will be returned
FirstName	varchar(50)	
HasDriversLicenseNumber	tinyint	
HomePhone	varchar(20)	
LastName	varchar(50)	
MiddleName	varchar(50)	
State	varchar(50)	
WorkPhone	varchar(20)	
CellPhone	varchar(20)	
Zip	varchar(10)	
DateGathered	datetime	
CustomerType	varchar(50)	
LoyaltyCustomer	tinyint	0 – Not on Loyalty 1 – Has Loyalty

Example URL

https://int.LightspeedADP.com/lsapi/Customer/76010000

Example JSON Result

```
[
        {"Cmf":"76014100",
        "DealerId":"3531",
        "CustomerId":3997192,
        "DateGathered":"2013-08-23T12:07:59.767",
        "CustFullName":"DOUG M JONES",
        "FirstName":"DOUG",
        "MIddleName":"M",
        "LastName":"JONES",
        "Address1":"123 ANY LANE",
        "Address2":"",
        "City":"SANDY",
        "State":"UT",
        "Zip":"84084",
        "County":"",
        "Country":"USA",
        "HomePhone":"(801) 555-7659",
        "WorkPhone":"(801) 555-4289",
        "CellPhone":"",
        "EMail":"",
        "Birthdate":"1910-01-01T00:00:00",
        "HasDriversLicenseNumber":null,
        "CustomerType":null,
        "LoyaltyCustomer":1
        }
]
```

Example XML Result

```
<ArrayOfCustomer xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <Customer>
                <Cmf>76014540</Cmf>
                <Address1>1423 CHASE LANE</Address1>
                <Address2></Address2>
                <Birthdate>1910-01-01T00:00:00</Birthdate>
```

```
                <CellPhone></CellPhone>

                <City>SANDY</City>

                <Country>USA</Country>

                <County></County>

                <CustFullName>DOUG M FREELY</CustFullName>

                <CustomerId>3137192</CustomerId>

                <CustomerType i:nil="true" />

                <DateGathered>2013-08-23T12:07:59.767</DateGathered>

                <DealerId>3531</DealerId>

                <EMail></EMail>

                <FirstName>DOUG</FirstName>

                <HasDriversLicenseNumber i:nil="true" />

                <HomePhone>(801) 554-7659</HomePhone>

                <LastName>FREELY</LastName>

                <MIddleName>M</MIddleName>

                <State>UT</State>

                <WorkPhone>(801) 263-4289</WorkPhone>

                <Zip>84084</Zip>

                <LoyaltyCustomer>1</LoyaltyCustomer>

        </Customer>

</ArrayOfCustomer>
```

ServiceSum – Service Summary

Fields

Field Name	Data Type	Description, Example
DealerId	varchar(20)	Internal Dealer Identifier
Cmf	varchar(20)	CDK Global Dealer Identifier
ROHeaderID	int	
ROUnitID	int	
ROJobID	int	
rono	varchar(20)	RO Number
JobDescription	varchar(2000)	
JobTitle	varchar(75)	
InternalJob	byte	
WarrantyJob	byte	
VIN	varchar(26)	
Make	varchar(20)	
Model	varchar(20)	
Year	varchar(4)	
CashieredDate	date	
PartsPrice	money	
LaborPrice	money	

Shopsupply	money	
MiscPrice	money	

Example URL

https://int.LightspeedADP.com/lsapi/ServiceSum/76010000

Example JSON Result

[

        {"Cmf":"76010001",

        "DealerId":"0001",

        "ROHeaderID":9158372,

        "ROUnitID":9158427,

        "ROJobID":9158497,

        "rono:" 12345,

        "JobDescription":"WRONG GEAR POSITION",

        "JobTitle":"WRONG GEAR POSITION",

        "InternalJob":0,

        "WarrantyJob":1,

        "VIN":"JKBZGNC10CA014229",

        "Make":"KAWASAKI",

        "Model":"ZG1400CCF",

        "Year":"2012",

        "CashieredDate":"2013-10-31T00:00:00",

        "PartsPrice":98.0000,

        "LaborPrice":49.0000,

        "shopsupply":0.0000,

        "MiscPrice":0.0000}

        }

]

Example XML Result

<ArrayOfServiceHeadSum xmlns:i="http://www.w3.org/2001/XMLSchema-instance">

<ServiceHeadSum>

        <Cmf>76010000</Cmf>

        <CashieredDate>2013-10-31T00:00:00</CashieredDate>

        <DealerId>0001</DealerId>

        <InternalJob>0</InternalJob>

        <JobDescription>WRONG GEAR POSITION</JobDescription>

        <JobTitle>WRONG GEAR POSITION</JobTitle>

          `<LaborPrice>49.0000</LaborPrice>`

          `<Make>KAWASAKI</Make>`

          `<MiscPrice>0.0000</MiscPrice>`

          `<Model>ZG1400CCF</Model>`

          `<PartsPrice>98.0000</PartsPrice>`

          `<ROHeaderID>9158372</ROHeaderID>`

          `<ROJobID>9158497</ROJobID>`

          `<ROUnitID>9158427</ROUnitID>`

          `<rono>12345</rono>`

          `<VIN>JKBZGNC10CA014229</VIN>`

          `<WarrantyJob>1</WarrantyJob>`

          `<Year>2012</Year>`

          `<shopsupply>0.0000</shopsupply>`

`</ServiceHeadSum>`

ServiceDet – Service Detail

Fields

Field Name	Data Type	Description, Example
DealerId	varchar(20)	Internal Dealer Identifier
Cmf	varchar(20)	CDK Global Dealer Identifier
ROHeaderID	int	
rono	varchar(20)	RO Number
Datein	date	
Closedate	date	
Pudate	date	
CustID	bigint	
Shopsupply	money	
MiscCharge1	money	
MiscCharge2	money	
MiscCharge3	money	
MiscCharge4	money	
ServiceWriterName	varchar(50)	
TotsubCost	money	
TotsubSales	money	
ROUnitID	int	
VIN	varchar(26)	
Make	varchar(20)	
Model	varchar(20)	
Year	varchar(4)	
Engineno	varchar(21)	
Class	varchar(5)	
Odometer	int	
StockNumber	varchar(30)	
ROJobID	int	

JobDescription	varchar(2000)	
JobTitle	varchar(75)	
InternalJob	byte	
WarrantyJob	byte	
ROPartID	int	
PartNumber	varchar(20)	
PartDescription	varchar(30)	
SourceCode	varchar(3)	
Qty	int	
Cost	money	
Price	money	
ExtPrice	money	
ROLaborID	int	
JobDescription	varchar(20)	
Hours	decimal	
Rate	decimal	
Total	decimal	
ActualHours	decimal	
TechnicianName	varchar(50)	
DiscountTotalCharge	money	
TotalCharge	money	
misccharge 1	varchar(10)	Separate misc charge on job lvl
misccharge 2	varchar(10)	Separate misc charge on job lvl
misccharge 3	varchar(10)	Separate misc charge on job lvl
misccharge 4	varchar(10)	Separate misc charge on job lvl
DiscountPrice	money	

Example URL

https://int.LightspeedADP.com/lsapi/ServiceDet/76010000

Example JSON Result

```
[
        {"Cmf":"76010000",
        "DealerId":"I013",
        "ROHeaderID":285,
        "rono": 12345,
        "CustID":0,
        "datein":"2013-04-10T14:58:34",
        "closedate":"2014-04-18T00:00:00",
        "pudate":"2014-04-18T00:00:00",
        "shopsupply":0.0000,
        "MiscCharge1":0.0000,
        "MiscCharge2":0.0000,
        "MiscCharge3":0.0000,
        "MiscCharge4":0.0000,
```

"ServiceWriterName":"",

"TotsubCost":0.0000,

"TotsubSales":0.0000,

"Unit":[

{"ROUnitID":2,

"VIN":"",

"Make":"HONDA",

"Model":"blue",

"Year":"2013",

"Engineno":"",

"Class":"M",

"Odometer":0,

"StockNumber":"3272013",

"Job":[

{"ROJobID":1,

"JobDescription":"",

"JobTitle":"major unit",

"InternalJob":1,

"WarrantyJob":0,

"Parts":[

{"ROPartID":5,

"PartNumber":"00000-00008",

"PartDescription":"O-RING",

"SourceCode":"HO",

"Qty":1,

"Cost":2.7000,

"Price":5.4900,

"DiscountPrice":5.4900

"ExtPrice":5.4900}],

"Labor":[

{"ROLaborID":1,

"JobDescription":"",

"Hours":1.0000,

"Rate":95.0000,

"Total":85.5000,

"Actualhours":1.0000,

"TechnicianName":"Adam Kellam",

"DiscountTotalCharge":85.5000,

"TotalCharge":95.0000}]},

{"ROJobID":2,

"JobDescription":"",

"JobTitle":"Install Bumper",

"InternalJob":1,

"WarrantyJob":0,

"misccharge1":0.00,

"misccharge2":0.00,

"misccharge3":0.00,

"misccharge4":0.00,

"Parts":[],

"Labor":[

{"ROLaborID":1,

"JobDescription":"",

"Hours":1.0000,

"Rate":95.0000,

"Total":85.5000,

"Actualhours":11.0000,

"TechnicianName":"Adam Kellam",

"DiscountTotalCharge":85.5000,

"TotalCharge":95.0000}]}]}]}]

Example XML Result

<ArrayOfServiceDetail xmlns:i="http://www.w3.org/2001/XMLSchema-instance">

<ServiceDetail>

<Cmf>7601000</Cmf>

<CustID>0</CustID>

<DealerId>I013</DealerId>

<MiscCharge1>0.0000</MiscCharge1>

<MiscCharge2>0.0000</MiscCharge2>

<MiscCharge3>0.0000</MiscCharge3>

<MiscCharge4>0.0000</MiscCharge4>

<ROHeaderID>285</ROHeaderID>

<rono>12345</rono>

<ServiceWriterName></ServiceWriterName>

<TotsubCost>0.0000</TotsubCost>

<TotsubSales>0.0000</TotsubSales>

```
<Unit>
    <ServiceUnit>
        <Class>M</Class>
        <Engineno></Engineno>
        <Job>
            <ServiceJob>
                <InternalJob>1</InternalJob>
                <JobDescription></JobDescription>
                <JobTitle>major unit</JobTitle>
                <Labor>
                    <ServiceLabor>
                        <Actualhours>1.0000</Actualhours>
<DiscountTotalCharge>85.5000</DiscountTotalCharge>
                        <Hours>1.0000</Hours>
                        <JobDescription></JobDescription>
                        <ROLaborID>1</ROLaborID>
                        <Rate>95.0000</Rate>
                        <TechnicianName>Adam Kellam</TechnicianName>
                        <Total>85.5000</Total>
                        <TotalCharge>95.0000</TotalCharge>
                    </ServiceLabor>
                </Labor>
                <Parts>
                    <ServiceParts>
                        <Cost>2.7000</Cost>
                        <ExtPrice>5.4900</ExtPrice>
                        <PartDescription>O-RING</PartDescription>
                        <PartNumber>00000-00008</PartNumber>
                        <Price>5.4900</Price>
                        <DiscountPrice>5.4900</DiscountPrice>
                        <Qty>1</Qty>
                        <ROPartID>5</ROPartID>
                        <SourceCode>HO</SourceCode>
                    </ServiceParts>
                </Parts>
                <ROJobID>1</ROJobID>
                <WarrantyJob>0</WarrantyJob>
```

```xml
                    <misccharge1>0.00</misccharge1>
                    <misccharge2>0.00</misccharge2>
                    <misccharge3>0.00</misccharge3>
                    <misccharge4>0.00</misccharge4>
                </ServiceJob>
                <ServiceJob>
                    <InternalJob>1</InternalJob>
                    <JobDescription></JobDescription>
                    <JobTitle>Install Bumper</JobTitle>
                    <Labor>
                        <ServiceLabor>
                            <Actualhours>11.0000</Actualhours>

<DiscountTotalCharge>85.5000</DiscountTotalCharge>

                            <Hours>1.0000</Hours>
                            <JobDescription></JobDescription>
                            <ROLaborID>1</ROLaborID>
                            <Rate>95.0000</Rate>
                            <TechnicianName>Adam Kellam</TechnicianName>
                            <Total>85.5000</Total>
                            <TotalCharge>95.0000</TotalCharge>
                        </ServiceLabor>
                    </Labor>
                    <Parts />
                </ServiceJob>
            </Job>
            <Make>HONDA</Make>
            <Model>blue</Model>
            <Odometer>0</Odometer>
            <ROUnitID>2</ROUnitID>
            <StockNumber>3272013</StockNumber>
            <VIN></VIN>
            <Year>2013</Year>
        </ServiceUnit>
    </Unit>
    <closedate>2014-04-18T00:00:00</closedate>
    <datein>2013-04-10T14:58:34</datein>
    <pudate>2014-04-18T00:00:00</pudate>
```

<shopsupply>0.0000</shopsupply>

</ServiceDetail>

InvoiceSum – Invoicing Summary

Fields

Field Name	Data Type	Description, Example
DealerId	varchar(20)	Internal Dealer Identifier
Cmf	varchar(20)	CDK Global Dealer Identifier
InvoiceID	int	
InvoiceNo	varchar(9)	
InvoiceDate	date	
salesmanId	varchar(5)	
Sales	money	
Salestype	varchar(1)	M – Major Unit; R – RO; C - Customer

Example URL

https://int.LightspeedADP.com/lsapi/InvoiceSum/76010000

Example JSON Result

```
[
        {"Cmf":"76010000",

        "dealerId":"0001",

        "invoiceId":10798384,

        "InvoiceNo":"5004662",

        "InvoiceDate":"2013-09-23T00:00:00",

        "salesmanId":"DK",

        "Sales":1.9300,

        "SalesType":"C"}

]
```

Example XML Result

```
<ArrayOfInvoiceSum xmlns:i="http://www.w3.org/2001/XMLSchema-instance">

<InvoiceSum>

        <Cmf>76010000</Cmf>

        <InvoiceDate>2013-09-23T00:00:00</InvoiceDate>

        <InvoiceNo>5004662</InvoiceNo>

        <Sales>1.9300</Sales>

        <SalesType>C</SalesType>

        <dealerId>0001</dealerId>

        <invoiceId>10798384</invoiceId>

        <salesmanId>DK</salesmanId>
```

</InvoiceSum>

InvoiceDet – Invoicing Detail

Fields

Field Name	Data Type	Description, Example
DealerId	varchar(20)	Internal Dealer Identifier
Cmf	varchar(20)	CDK Global Dealer Identifier
InvoiceID	int	
InvoiceNo	varchar(9)	
InvoiceDate	date	
Invoicelineno	int	
Salesmanid	varchar(5)	
CustID	varchar(10)	
Price	money	
Partno	varchar(20)	
Source	varchar(3)	
Partdesc	varchar(30)	
Qty	int	
Pu	int	
So	int	
Lay	int	
Lost	int	
Stdprice	money	

Example URL

https://int.LightspeedADP.com/lsapi/InvoiceDet/76010000

Example JSON Result

```
[
        {"Cmf":"76010000",

        "dealerId":"0001",

        "invoiceId":10798384,

        "InvoiceNo":5004662,

        "InvoiceDate":"2013-09-23T00:00:00",

        "CustID":"76456",

        "invoicelineno":10798385,

        "salesmanId":"DK",

        "price":1.9300,

        "cost":1.0000,

        "partno":"COFFEE",

        "source":"AC",

        "partdesc":"MONSTER COFFEE",

        "qty":1,
```

"pu":0,

"so":0,

"lay":0,

"lost":0,

"stdprice":2.9900}

]

Example XML Result

<ArrayOfInvoiceDet xmlns:i="http://www.w3.org/2001/XMLSchema-instance">

<InvoiceDet>

<Cmf>76010000</Cmf>

<InvoiceDate>2013-09-23T00:00:00</InvoiceDate>

<InvoiceNo>5004662</InvoiceNo>

<dealerId>0001</dealerId>

<invoiceId>10798384</invoiceId>

<invoicelineno>10798385</invoicelineno>

<CustID>76456</CustID>

<lay>0</lay>

<lost>0</lost>

<partdesc>MONSTER COFFEE</partdesc>

<partno>COFFEE</partno>

<price>1.0000</price>

<price>1.9300</price>

<pu>0</pu>

<qty>1</qty>

<salesmanId>DK</salesmanId>

<so>0</so>

<source>AC</source>

<stdprice>2.9900</stdprice>

</InvoiceDet>