



# 2TouchPOS DataKey Data API

---

## V4

## Table of Contents

|  |    |
|--|----|
| About this Document.....                           | 5  |
| What is DataKey? .....                             | 6  |
| History .....                                      | 6  |
| What's new in Version 4?.....                      | 6  |
| Data Identification .....                          | 7  |
| Enterprise Reference Numbers (ERNs).....           | 7  |
| Local Reference Identifier (LRIs) .....            | 7  |
| Local Reference Number (LRNs).....                 | 7  |
| SOAP API Overview .....                            | 8  |
| Service Endpoints.....                             | 8  |
| Method Credentials .....                           | 8  |
| Parameters.....                                    | 8  |
| Method Results .....                               | 8  |
| Returns.....                                       | 8  |
| Example Use of the TicketService using SOAP .....  | 9  |
| REST API Overview.....                             | 10 |
| Service Endpoints.....                             | 10 |
| HTTP Methods .....                                 | 10 |
| Credentials .....                                  | 10 |
| Limiting Results .....                             | 10 |
| Results .....                                      | 10 |
| Examples Use of the TicketService using REST ..... | 12 |
| Ticket Methods.....                                | 15 |
| Metadata .....                                     | 15 |
| Returns .....                                      | 15 |
| TicketMetadata:.....                               | 15 |
| Menu Item Usage .....                              | 15 |
| Parameters .....                                   | 15 |
| Returns .....                                      | 15 |
| MenuItemUsageSummary: .....                        | 15 |
| MenuItemUsage: .....                               | 15 |
| Modifier Usage .....                               | 16 |
| Parameters .....                                   | 16 |
| Returns .....                                      | 16 |
| ModifierGroupUsageSummary: .....                   | 16 |
| ModifierUsage: .....                               | 16 |
| Ticket Details.....                                | 17 |

|                                     |    |
|-------------------------------------|----|
| Parameters .....                    | 17 |
| Returns .....                       | 17 |
| TicketsResult:.....                 | 17 |
| MenuItem: .....                     | 19 |
| Modifier: .....                     | 22 |
| GiftCardIncrease: .....             | 25 |
| GiftCertificateIncrease: .....      | 26 |
| Payment: .....                      | 27 |
| Time Clock Methods .....            | 29 |
| Time Clock Adjustments .....        | 29 |
| What Triggers and Adjustment? ..... | 29 |
| How is the Data Related .....       | 29 |
| Special Cases .....                 | 29 |
| Metadata .....                      | 30 |
| Returns .....                       | 30 |
| TimeClockMetadata:.....             | 30 |
| GetAdjustedTimeClockData .....      | 30 |
| Parameters .....                    | 31 |
| Returns .....                       | 31 |
| TimeClockState: .....               | 31 |
| RawTimeClockData.....               | 31 |
| Parameters .....                    | 32 |
| Returns .....                       | 32 |
| RawTimeClockData:.....              | 32 |
| TimeClockAdjustment:.....           | 32 |
| TimeClockEntry:.....                | 32 |
| Realtime Methods .....              | 34 |
| Returns .....                       | 34 |
| RealtimeData:.....                  | 34 |
| SalesSummary: .....                 | 34 |
| SalesSnapShot:.....                 | 34 |
| SalesTimeSpan: .....                | 34 |
| Checks: .....                       | 34 |
| SalesGrouping:.....                 | 35 |
| MenuItem: .....                     | 35 |
| LaborSummary:.....                  | 35 |
| JobTypeSnapShot:.....               | 35 |

JobTypeTimeSpan: .....35

## About this Document

This document was written for 2TouchPOS version 3.03.6100 and version 4 of the DataKey API.

## What is DataKey?

DataKey is a web service enabling you to retrieve your 2TouchPOS historical data and a summary of real time data.



## History

Version 1 provides ticket detail data and inventory summary data. A ticket is comprised of menu items, modifiers, payments, gift card increases and gift certificate increases. Inventory summary data reports the total number of menu items and modifiers sold and their quantity used.

Version 2 added historical time clock data consisting of clock in and clock out data, adjustments and manager overrides.

Version 3 added card holder name for credit card payments and auto-generated identifiers.

## What's new in Version 4?

Version 4 breaks the download service into a ticket service and a timeclock service and adds an additional web service to provide real time high level business information.



1. You can use V4 of the API to retrieve data from any storage version.
2. Two new fields were added to Ticket Details to indicate open menu items and custom modifiers. These two fields complete the data needed to reproduce the sales summary report.
3. A REST API has been added to allow users multiple ways to access the same data.
4. Naming conventions were updated to be consistent.

## Data Identification

We now offer three ways for you and your integration partners to align data from multiple locations. Enterprise Reference Numbers allow you to identify data in 2Touch. Local Reference Identifiers and Local Reference Numbers allow you to identify data in the receiving software.

|                      | Pros   | Cons  |
|----------------------|--|---|
| <b>ERNs</b>          | <ul style="list-style-type: none"><li>You control the values</li></ul>                                 | <ul style="list-style-type: none"><li>You have to maintain the values at each location.</li></ul>                     |
| <b>LRNs and LRIs</b> | <ul style="list-style-type: none"><li>Automatically supplied.</li><li>Mapping is centralized</li></ul> | <ul style="list-style-type: none"><li>You have to match the data in every 3<sup>rd</sup> party application.</li></ul> |

### Enterprise Reference Numbers (ERNs)

Enterprise reference numbers are identifiers you control and enter into 2Touch to identify departments, categories, menu items, pricing levels, modifier groups, unique modifiers, modifier options, course, employees, job descriptions, stations, station types, payment types, discounts, and coupons. Since you control ERNs, you can make them the same at every location.

### Local Reference Identifier (LRIs)

Local Reference Identifiers are globally unique values automatically generated and supplied by 2Touch. Third party software can use these values to identify equivalent data.

LRIs were introduced in the DataKey V3. Data collected in previous versions will not have an LRI. Data collected in V3 or after will have LRIs.

### Local Reference Number (LRNs)

Local Reference Numbers are locally unique and supplied by 2Touch. The numbers generated are unique within each location and relative to each data type. For example, no two menu items at a location will have the same LRN.

The numbers are not unique between data types. A menu item and a modifier might have the same LRN.

The numbers are not unique between locations. Two different menu items from two locations might have the same LRN.

In order to properly identify the data, you must use the LRN, the data type, and the location.

LRNs were introduced in the DataKey V3. Data collected in previous versions will not have an LRN. Data collected in V3 or after will have LRNs.

## SOAP API Overview

### Service Endpoints

<http://DataKey.2TPos.com/2TouchPOS/DataKey/V4/SOAP/TicketService.svc>  
<http://DataKey.2TPos.com/2TouchPOS/DataKey/V4/SOAP/TimeClockService.svc>  
<http://DataKey.2TPos.com/2TouchPOS/DataKey/V4/SOAP/RealtimeService.svc>

### Method Credentials

All service methods take your Application Id, the Site Id and Auth Code as credentials. Requests with an invalid Application Id, Site Id, or Auth Code combination will be rejected. The result will indicate the failure in the status and the status reason will be 'Invalid application id/ site Id / authorization code'. Some methods will require additional parameters such as dates, see each method for specific parameters.

#### Parameters

| Name          | Data Type | Notes |
|---------------|-----------|-------|
| applicationId | Guid      |       |
| siteId        | Guid      |       |
| authCode      | Guid      |       |

### Method Results

All service methods return results of the request. Check the result Status to ensure the operation succeeded. If the operation failed, the reason will be in the result's Reason field. See each method for the specific data type returned.

#### Returns

| Name        | Data Type   | Notes                            |
|-------------|-------------|----------------------------------|
| Status      | Enum        | Success = 0, Failure = 1         |
| Reason      | String      | The reason for a failure         |
| RequestedOn | DateTime    | The date and time of the request |
| Data        | <data type> | Varies per request               |



## Example Use of the TicketService using SOAP

Here is a C#.Net example of calling the TicketService and retrieving Metadata using the Visual Studio created wrapper library for the web service.

```
public async Task RefreshData_Executed()
{
    Executing = true;
    ErrorMessage = string.Empty;

    try
    {
        TicketServiceClient client = new TicketServiceClient();
        TicketMetadataResult result = await client.GetMetadataAsync(applId, siteId, authCode);

        if (result.Status == Status.Success)
        {
            TicketMetadata ticketMetadata = result.Data;
            this.EarliestBusinessDate = ticketMetadata.EarliestBusinessDate;
            this.LatestBusinessDate = ticketMetadata.LatestBusinessDate;
            this.EarliestClosedOnDate = ticketMetadata.EarliestClosedOnDate;
            this.LatestClosedOnDate = ticketMetadata.LatestClosedOnDate;
        }
        else
        {
            ErrorMessage = result.Reason;
        }
    }
    catch (Exception ex)
    {
        ErrorMessage = ex.Message;
    }

    Executing = false;
}
```

## REST API Overview

### Service Endpoints

http://DataKey.2TPos.com/2TouchPOS/DataKey/V4/REST/TicketService  
http://DataKey.2TPos.com/2TouchPOS/DataKey/V4/REST/TimeClickService  
http://DataKey.2TPos.com/2TouchPOS/DataKey/V4/REST/RealtimeService

### HTTP Methods

The REST API uses the standard HTTP GET method. Clients should set the request “Accept” header to the desired response format using either “application/json” or “text/xml”. Parameters should be passed as query string parameters.

### Credentials

Credentials are passed to the service using the “Authorization” request header with a custom scheme. Clients should use an authorization scheme of “2TouchDataKey” and a base64 encoded string that contains the siteId, applicationId and authCode as the authorization parameter.

```
Authorization.Scheme = "2TouchDataKey";  
Authorization.Parameter = Convert.ToBase64String(  
    Encoding.UTF8.GetBytes("siteId=F05CE76E-81D2-40E9-90D5-239F002D3FBA& applicationId=46C230F9-  
E72C-4F7A-BF22-FE58880D9621&authCode= 09B806DA-9BDC-48F3-A9AA-B2CD74F77690"));
```

### Limiting Results

Clients can limit the results of a request which return an array or list of items. There are two method of limiting results; by setting the “Range” request header to “items=0-9” or by passing in query parameters of “offset=0&limit=10”. When limiting results clients should check for HTTP Status Codes (206 and 416) in addition to other codes and the response header “Content-Range” which will contain the range of the items returned along with the total number of items “items 0-9/43”

### Results

The REST API uses standard HTTP response status codes. The response body will contain data for success codes while error codes will contain additional about the error.

| HTTP Status Code | Description          | API meaning   |
|------------------|----------------------|---|
| <b>2xx</b>       | <b>Success</b>       |   |
| 200              | OK                   |   |
| 204              | No Content           | The request was successful but there is no data to retrieve.  |
| 206              | Partial Content      | The request contained a range smaller than the range of the content. Only data in the requested range was returned. |
| <b>4xx</b>       | <b>Request Error</b> |   |

| <b>HTTP Status Code</b> | <b>Description</b>              | <b>API meaning</b>   |
|-------------------------|---------------------------------|--|
| 400                     | Bad Request                     | The request contains invalid syntax. See specific error response for details.                |
| 401                     | Unauthorized                    | The request was unable to grant access with the supplied siteld, applicationId and authcode. |
| 403                     | Forbidden                       | Access could not be granted.   |
| 404                     | Not Found                       | The requested resource was not found.  |
| 416                     | Requested Range Not Satisfiable | The request contained a range that was outside of the range of the data.                     |
| <b>5xx</b>              | <b>Server Error</b>             |  |
| 500                     | Internal Server Error           | Unexpected condition occurred on the server.   |

## Examples Use of the TicketService using REST

Here is a javascript/jquery example for calling the TicketService retrieving Metadata and MenuItemUsage

```
<script src="https://ajax.googleapis.com/ajax/libs/jquery/2.1.4/jquery.min.js"></script>
<script type="text/javascript">
    function CreateAuthHeader() {
        return '2TouchDataKey ' + window.btoa('applicationId= CB73C139-2941-4462-BB49-53EB4475CF0E ' +
            '&siteId=46C230F9-E72C-4F7A-BF22-FE58880D9621' +
            '&authCode=09B806DA-9BDC-48F3-A9AA-B2CD74F77690');
    }

    function SendRequest(action, path, data, success, error) {
        $.ajax(
        {
            url : 'http://datakey.2tpos.com/2TouchPOS/DataKey/V4/REST/' + path,
            type: action,
            headers: { 'Authorization': CreateAuthHeader() },
            contentType: 'application/json',
            data: data,
            success: success,
            error: error
        });
    }

    function GetMetadata() {
        SendRequest('GET', 'TicketService/Metadata', null,
            function (data) {
                alert(data.LatestBusinessDate);
            },
            function (jqXHR, textStatus, errorThrown) {
                alert(errorThrown);
            });
    }

    function GetMenuItemUsage(fromDate, toDate)
    {
        SendRequest('GET', 'TicketService/MenuItemUsage', { fromDate: fromDate, toDate: toDate },
            function (data) {
                alert(data.NetSales);
            },
            function (jqXHR, textStatus, errorThrown) {
                alert(errorThrown);
            });
    }

    function OnClick() {
        GetMetadata();
        GetMenuItemUsage('6/8/2011','6/9/2011');
    }
</script>
```

Here is a C#.Net example for calling the TicketService retrieving Metadata and MenuItemUsage.

```
public class ErrorResponse
{
    public string Message { get; set; }
}

public class TicketMetadata
{
    public DateTime LatestBusinessDate { get; set; }
    public DateTime LatestClosedOnDate { get; set; }
    public DateTime EarliestBusinessDate { get; set; }
    public DateTime EarliestClosedOnDate { get; set; }
}

public class MenuItemUsage
{
    public string ERN { get; set; }
    public int? LRN { get; set; }
    public Guid? LRI { get; set; }
    public string Name { get; set; }
    public double Quantity { get; set; }
    public double InventoryUsage { get; set; }
    public decimal SalesAmount { get; set; }
}

public class MenuItemUsageSummary
{
    public decimal NetSales { get; set; }
    public decimal Tax { get; set; }
    public decimal Total { get; set; }
    public List<MenuItemUsage> Details { get; set; }
}

public class RESTTicketClient
{
    private Guid siteld;
    private Guid applicationId;
    private Guid authCode;

    public RESTTicketClient(Guid siteld, Guid applicationId, Guid authCode)
    {
        this.siteld = siteld;
        this.applicationId = applicationId;
        this.authCode = authCode;
    }

    private T SendRequest<T>(string Path, string QueryParameters)
    {
        try
        {
            using (var client = new HttpClient())
            {
                client.BaseAddress = new Uri("http://DataKey.2TPos.com/");
                client.DefaultRequestHeaders.Accept.Clear();
                client.DefaultRequestHeaders.Accept.Add(new MediaTypeWithQualityHeaderValue("application/json"));
                client.DefaultRequestHeaders.Authorization = new AuthenticationHeaderValue("2TouchDataKey",
                Convert.ToBase64String(Encoding.Default.GetBytes(string.Format("siteld={0}&applicationId={1}&authCode={2}",
                siteld, applicationId, authCode))));

                var response = client.GetAsync("2TouchPOS/DataKey/V4/REST/TicketService" + Path +
```

```

        (string.IsNullOrEmpty(QueryParameters) ? "" : HttpUtility.UrlPathEncode("? " +
QueryParameters))).Result;
        var result = response.Content.ReadAsStringAsync().Result;

        if (response.IsSuccessStatusCode)
        {
            T data = JsonConvert.DeserializeObject<T>(result);
            return data;
        }
        else
        {
            ErrorResponse errorStatus;
            if ((response.Content.Headers.ContentType != null) &&
(response.Content.Headers.ContentType.MediaType == "application/json"))
            {
                errorStatus = JsonConvert.DeserializeObject<ErrorResponse>(result);
                // Handle error
            }
            else
            {
                // Handle error
            }
        }
    }
}
catch (Exception)
{
}
return default(T);
}

public TicketMetadata Refresh_MetaData()
{
    return SendRequest<TicketMetadata>("/Metadata", "");
}

public MenuItemUsageSummary Refresh_MenuItemUsage(DateTime fromDate, DateTime toDate)
{
    return SendRequest<MenuItemUsageSummary>("/MenuItemUsage",
string.Format("fromDate={0}&toDate={1}", fromDate.ToShortDateString(), toDate.ToShortDateString()));
}
public static void MainProgram()
{
    RESTTicketClient client = new RESTTicketClient(Guid.Parse("CB73C139-2941-4462-BB49-53EB4475CF0E "),
Guid.Parse("46C230F9-E72C-4F7A-BF22-FE58880D9621"),
Guid.Parse("09B806DA-9BDC-48F3-A9AA-B2CD74F77690"));
    client.Refresh_MetaData();
    client.Refresh_MenuItemUsage(DateTime.Parse("6/8/2011"), DateTime.Parse("6/9/2011"));
}
}

```

## Ticket Methods

### Metadata

SOAP : GetMetadata

REST: /Metadata

Returns summary information about your ticket data. Specifically, it returns the earliest business date, latest business date, earliest ticket closed on date, and latest ticket closed on date. This method should be used to ensure data is available before calling other methods.

### Returns

#### *TicketMetadata:*

| Name                 | Data Type | Notes     |
|----------------------|-----------|-----------|
| EarliestBusinessDate | DateTime  | Date only |
| EarliestClosedOnDate | DateTime  |           |
| LatestBusinessDate   | DateTime  | Date only |
| LatestClosedOnDate   | DateTime  |           |

### Menu Item Usage

SOAP : GetMetadata

REST: /MenuItemUsage

Returns summary data about the menu items used during the provided time period.

### Parameters

| Name     | Data Type | Notes |
|----------|-----------|-------|
| fromDate | DateTime  |       |
| toDate   | DateTime  |       |

From Date and to Date are filters on ticket business dates. They are inclusive.

### Returns

#### *MenuItemUsageSummary:*

| Name     | Type            | Notes |
|----------|-----------------|-------|
| Details  | MenuItemUsage[] |       |
| NetSales | Decimal         |       |
| Tax      | Decimal         |       |
| Total    | Decimal         |       |

#### *MenuItemUsage:*

| Name | Data Type         | Max Length | Nullable | Notes |
|------|-------------------|------------|----------|-------|
| ERN  | string            | 36         | Y        |       |
| LRI  | Unique Identifier | 36         | Y        |       |
| LRN  | Int               |            | Y        |       |

|                |         |  |   |  |
|----------------|---------|--|---|--|
| InventoryUsage | double  |  | N |  |
| Name           | string  |  | N |  |
| Quantity       | double  |  | N |  |
| Sales Amount   | Decimal |  | N |  |

## Modifier Usage

SOAP : GetModifierUsage

REST: /ModifierUsage

Returns summary data about the modifiers used during the provided time period.

### Parameters

| Name     | Data Type | Notes |
|----------|-----------|-------|
| fromDate | DateTime  |       |
| toDate   | DateTime  |       |

From Date and to Date are filters on ticket business dates. They are inclusive.

### Returns

#### *ModifierGroupUsageSummary:*

| Name      | Data Type         | Max Length | Nullable | Notes |
|-----------|-------------------|------------|----------|-------|
| ERN       | string            | 36         | Y        |       |
| LRI       | Unique Identifier | 36         | Y        |       |
| LRN       | Int               |            | Y        |       |
| Modifiers | ModifierUsage[]   |            | N        |       |
| Name      | string            |            | N        |       |
| Quantity  | double            |            | N        |       |

#### *ModifierUsage:*

| Name           | Data Type         | Max Length | Nullable | Notes |
|----------------|-------------------|------------|----------|-------|
| ERN            | string            | 36         | Y        |       |
| LRI            | Unique Identifier | 36         | Y        |       |
| LRN            | Int               |            | Y        |       |
| InventoryUsage | double            |            | N        |       |
| Name           | string            |            | N        |       |
| PriceLevel     | String            |            | N        |       |
| PriceLevelERN  | String            | 36         | Y        |       |
| PriceLevelLRI  | Unique Identifier | 36         | Y        |       |
| PriceLevelLRN  | Int               |            | Y        |       |
| Quantity       | double            |            | N        |       |



## Ticket Details

SOAP : GetTicketDetails

REST: /TicketDetails

Returns complete data about tickets.

### Parameters

| Name         | Data Type | Notes |
|--------------|-----------|-------|
| businessDate | DateTime  |       |

### Returns

#### *Ticket:*

A Ticket contains summary data for a ticket as well as Menu Items, Payments, Gift Card Increases, and Gift Certificate Increases.

| Field                   | Data Type         | Max Length | Nullable | Notes  |
|-------------------------|-------------------|------------|----------|--|
| Id                      | Unique Identifier |            | N        | Unique Id of this record   |
| AmountDue               | Decimal           |            | Y        | The total amount due from the customer   |
| AnnualZCount            | Int               |            | N        | The number of Z's since the beginning of the year. The format is YYYYdddd where YYYY is the year and dddd is the number of Zs processed this year.                               |
| APIVersion              | Float             |            | N        | The DataKey version used to upload the ticket.   |
| AutoTabEmployeeId       | String            | 25         | Y        | The Id of the employee that owns the ticket when this is an AutoTab ticket   |
| AutoTabEmployeeERN      | String            | 36         | Y        | The ERN of the employee that owns the ticket when this is an AutoTab ticket  |
| AutoTabEmployeeLRI      | Unique Identifier | 36         | Y        | The LRI of the employee that owns the ticket when this is an AutoTab ticket  |
| AutoTabEmployeeLRN      | Int               |            | Y        | The LRN of the employee that owns the ticket when this is an AutoTab ticket  |
| AutoGratuityHouseAmount | Decimal           |            | Y        | The amount of the Auto Gratuity tip kept by the establishment.   |
| AutoGratuityTotalAmount | Decimal           |            | Y        | The amount of tip from the check as determined by the Auto Gratuity Percent and the Sub-Total, Total, Discounted Sub-Total or Discounted Total depending on the system settings. |
| BusinessDate            | Date              |            | N        | The business date of this ticket.  |
| ClosedOn                | DateTime          |            | N        | The Date and Time the ticket was closed.   |
| Cost                    | Float             |            | Y        | The total cost of menu items and modifiers   |
| CreatedOn               | DateTime          |            | N        | The Date and Time the ticket was   |

|                          |                           |    |   |   |
|--------------------------|---------------------------|----|---|---|
|                          |                           |    |   | created. Note that due to split checks and item transfers, the ticket header could be created after a line item.  |
| EmployeeId               | String                    | 25 | N | The employeeId of the employee that owns the ticket. This could be the employee that opened the ticket or closed the ticket based on your settings. The owner could have been transferred to another employee.              |
| EmployeeERN              | String                    | 36 | Y | The ERN of the employee that owns the ticket.   |
| EmployeeLRI              | Unique identifier         | 36 | Y | The LRI of the employee that owns the ticket.   |
| EmployeeLRN              | Int                       |    | Y | The LRN of the employee that owns the ticket.   |
| FuturePayment            | Float                     |    | Y | The Payment amount taken on an a Future Order prior to completing the order.  |
| GiftCardIncreases        | GiftCardIncrease[]        |    | Y |   |
| GiftCertificateIncreases | GiftCertificateIncrease[] |    | Y |   |
| GuestCount               | Int                       |    | Y | The number of people on a ticket when using table management. Guest count is not necessarily required and can be null.  |
| GrossSaleAmount          | Decimal                   |    | Y | The total gross sale amount   |
| MenuItems                | MenuItem[]                |    | Y |   |
| NetSaleAmount            | Decimal                   |    | Y | The total of the ticket line items without taxes.   |
| OrderOrigin              | String                    | 3  | Y | Where the order started. A value of NULL means the order was started at a POS Station. A value of 'W' means the order started from 2TouchPOS' Online Ordering module.   |
| Payments                 | Payment[]                 |    | Y |   |
| PromoAmount              | Decimal                   |    | Y | The total of the promo amounts  |
| StationName              | String                    | 25 | N | The name of the station where the ticket was closed. When the ticket was completed by a driver drop, StationName is the delivery station's name.  |
| StationERN               | String                    | 36 | Y | The ERN of the station where the ticket was closed.   |
| StationLRI               | Unique Identifier         | 36 | Y | The LRI of the station where the ticket was closed.   |
| StationLRN               | Int                       |    | Y | The LRN of the station where the ticket was closed.   |
| TabName                  | String                    | 25 | Y | The name given to the tab. A null value indicates a transaction that wasn't placed on a table or tab and 2TouchPOS is set to not require names. The name of the tab is provided when the ticket is associated with a table. |

|              |                   |    |   |  |
|--------------|-------------------|----|---|--|
| TableName    | String            | 25 | Y | The name of the table for this ticket. The value will be null when not affiliated with a table.  |
| Tax1Amount   | Decimal           |    | Y | The amount of Tax from Tax 1   |
| Tax1ERN      | String            | 36 | Y | The ERN of Tax 1   |
| Tax1LRI      | Unique Identifier | 36 | Y | The LRN of Tax 1   |
| Tax1LRI      | Int               |    | Y | The LRI of Tax 1   |
| Tax1Name     | String            | 25 | Y | The name of Tax 1  |
| Tax2Amount   | Decimal           |    | Y | The amount of Tax from Tax 2   |
| Tax2ERN      | String            | 36 | Y | The ERN of Tax 2   |
| Tax2LRI      | Unique Identifier | 36 | Y | The LRN of Tax 2   |
| Tax2LRI      | Int               |    | Y | The LRI of Tax 2   |
| Tax2Name     | String            | 25 | Y | The name of Tax 2  |
| Tax3Amount   | Decimal           |    | Y | The amount of Tax from Tax 3   |
| Tax3ERN      | String            | 36 | Y | The ERN of Tax 3   |
| Tax3LRI      | Unique Identifier | 36 | Y | The LRN of Tax 3   |
| Tax3LRI      | Int               |    | Y | The LRI of Tax 3   |
| Tax3Name     | String            | 25 | Y | The name of Tax 3  |
| TicketNumber | String            | 20 | N | A 2TouchPOS generated identifier for the ticket. The format is YYYYMMDDhhmmTTTXXXXX where YYYY is the year, MM is the month, DD is the day, hh is the hour in 24-hour format, mm is the minute, TTT is the terminal number, XXXX is the sequential ticket number for that day. |
| TicketType   | String            | 12 | N | Indicates the type of transaction. The valid values are Transaction, Comp, Spill.  |

**MenuItem:**

| Column                | Data type         | Max Length | Nullable | Notes   |
|-----------------------|-------------------|------------|----------|---|
| Id                    | Unique Identifier |            | N        | Primary Key   |
| TicketId              | Unique Identifier |            | N        | Foreign Key to the Ticket   |
| AmountDue             | Decimal           |            | Y        | NetSaleAmount plus taxes. This is the amount the customer pays.   |
| AnnualZCount          | Int               |            | Y        | Z report identifier. The number of Z's since the beginning of the year. The format is YYYYdddd where YYYY is the year and dddd is the number of Zs processed this year. |
| AutoCouponAmount      | Decimal           |            | Y        | The amount deducted from an automatically applied coupon  |
| BusinessDate          | DateTime          |            | Y        | The business date of this ticket item.  |
| CashDiscountSurcharge | Bit               |            | Y        | Indicates that the item had a surcharge applied to it because it was not paid for in cash.  |
| Cost                  | Float             |            | Y        | The cost of the item as entered into  |

|                     |                   |    |   |   |
|---------------------|-------------------|----|---|---|
|                     |                   |    |   | 2TouchPOS.  |
| CourseName          | String            | 20 | Y | The name of the course this item was served in.                               |
| CourseERN           | String            | 36 | Y | The ERN of the course this item was served in.                                |
| CourseLRI           | Unique Identifier | 36 | Y | The LRN of the course this item was served in.                                |
| CourseLRN           | Int               |    | Y | The LRI of the course this item was served in.                                |
| CreatedOn           | DateTime          |    | N | The date and time this item was rung onto the ticket.                         |
| DepartmentName      | String            | 25 | N | The name of the department the item is in.                                    |
| DepartmentERN       | String            | 36 | Y | The ERN of the department the item is in.                                     |
| DepartmentLRI       | Unique Identifier | 36 | Y | The LRI of the department the item is in.                                     |
| DepartmentLRN       | Int               |    | Y | The LRN of the department the item is in.                                     |
| DiscountAmount      | Decimal           |    | Y | The amount the item was discounted by   |
| DiscountERN         | String            | 36 | Y | The ERN of the discount applied to this item.                                 |
| DiscountEmployeeId  | String            | 50 | Y | The name of the employee receiving the employee discount applied to the item. |
| DiscountEmployeeERN | String            | 36 | Y | The ERN of the employee receiving the employee discount applied to the item.  |
| DiscountEmployeeLRI | Unique Identifier | 36 | Y | The LRI of the employee receiving the employee discount applied to the item.  |
| DiscountEmployeeLRN | Int               |    | Y | The LRN of the employee receiving the employee discount applied to the item.  |
| DiscountLRI         | Unique Identifier | 36 | Y | The LRI of the discount applied to this item.                                 |
| DiscountLRN         | Int               |    | Y | The LRN of the discount applied to this item.                                 |
| DiscountName        | String            | 25 | Y | The name of the discount applied to this item.                                |
| DiscountTax1Amount  | Decimal           |    | Y | The amount the tax 1 was discounted by  |
| DiscountTax2Amount  | Decimal           |    | Y | The amount the tax 2 was discounted by  |
| DiscountTax3Amount  | Decimal           |    | Y | The amount the tax 3 was discounted by  |
| EmployeeId          | String            | 25 | N | The employee Id of the employee that rang in this item.                       |
| EmployeeERN         | String            | 36 | Y | The ERN of the employee that rang in this item.                               |
| EmployeeLRI         | Unique Identifier | 36 | Y | The LRI of the employee that rang in this item.                               |
| EmployeeLRN         | Int               |    | Y | The LRN of the employee that rang in this item.                               |
| ERN                 | String            | 36 | Y | The ERN of the item.  |
| GrossSaleAmount     | Decimal           |    | Y | The Price per item * quantity. This before discounts and taxes.               |

|                       |                   |    |   |   |
|-----------------------|-------------------|----|---|---|
| InventoryUsage        | Float             |    | Y | The quantity * the inventory factor   |
| LRI                   | Unique Identifier | 36 | Y | The LRI of the item   |
| LRN                   | Int               |    | Y | The LRN of the item   |
| Name                  | String            | 50 | N | The name of the item.   |
| NetSaleAmount         | Decimal           |    | Y | Gross Sale Amount after discounts but before taxes.                         |
| OpenItem              | Bit               |    | N | The item will not have an ERN, LRI, or LRN as it is a non-inventoried item. |
| OrderType             | String            | 15 | Y | The name of the order type.   |
| OrderTypeERN          | String            | 36 | Y | The ERN of the order type.  |
| OrderTypeLRI          | Unique Identifier | 36 | Y | The LRI of the order type   |
| OrderTypeLRN          | Int               |    | Y | The LRN of the order type   |
| OriginalTicketNumber  | String            | 20 | Y | The ticket number this menu item was original rung on.                      |
| PLU                   | String            | 14 | Y | The price look up of the item.  |
| PriceLevelERN         | String            | 36 | Y | The ERN of the price level the menu item was sold at.                       |
| PriceLevelLRI         | Unique Identifier | 36 | Y | The LRI of the price level the menu item was sold at.                       |
| PriceLevelLRN         | Int               |    | Y | The LRN of the price level the menu item was sold at.                       |
| PriceLevelName        | String            | 25 | Y | The name of the price level the menu item was sold at.                      |
| PromoAmount           | Decimal           |    | Y | Promotional Amount Redeemed to purchase this item.                          |
| QuantitySold          | Float             |    | Y | The quantity of the item sold.  |
| RefundFlag            | Bit               |    | N | Indicates if this line item represents a return.                            |
| RewardPointsEarned    | Float             |    | Y | The number of rewards points earned   |
| RewardPointsRedeem    | Float             |    | Y | The number of rewards points redeemed to purchase this item.                |
| RewardCardNumber      | String            | 9  | Y | The Reward Card Number points were added to or subtracted from.             |
| ReportingCategoryERN  | String            | 36 | Y | The ERN of the category this item is reported in.                           |
| ReportingCategoryLRI  | Unique Identifier | 36 | Y | The LRI of the category this item is reported in.                           |
| ReportingCategoryLRN  | Int               |    | Y | The LRN of the category this item is reported in.                           |
| ReportingCategoryName | String            | 25 | N | The name of the category this item is reported in.                          |
| SeatNumber            | Int               |    | Y | The seat number ordering the item.  |
| SortOrder             | Int               |    | N | The sort order of the menu items and modifiers entered on the ticket.       |
| StationName           | String            | 25 | N | The name of the station where the item was rung.                            |
| StationERN            | String            | 36 | Y | The ERN of the station where the item was rung.                             |
| StationLRI            | Unique Identifier | 36 | Y | The LRI of the station where the item was rung.                             |
| StationLRN            | Int               |    | Y | The LRN of the station where the item was rung.                             |

|               |                   |    |   |  |
|---------------|-------------------|----|---|--|
| Tax1Amount    | Decimal           |    | Y | The amount of Tax from Tax 1             |
| Tax1Name      | String            | 25 | Y | The name of Tax 1                        |
| Tax1ERN       | String            | 36 | Y | The ERN of Tax 1                         |
| Tax1LRI       | Unique Identifier | 36 | Y | The LRI of Tax 1                         |
| Tax1LRN       | Int               |    | Y | The LRN of Tax 1                         |
| Tax2Amount    | Decimal           |    | Y | The amount of Tax from Tax 2             |
| Tax2Name      | String            | 25 | Y | The name of Tax 2                        |
| Tax2ERN       | String            | 36 | Y | The ERN of Tax 2                         |
| Tax2LRI       | Unique Identifier | 36 | Y | The LRI of Tax 2                         |
| Tax2LRN       | Int               |    | Y | The LRN of Tax 2                         |
| Tax3Amount    | Decimal           |    | Y | The amount of Tax from Tax 3             |
| Tax3Name      | String            | 25 | Y | The name of Tax 3                        |
| Tax3ERN       | String            | 36 | Y | The ERN of Tax 3                         |
| Tax3LRI       | Unique Identifier | 36 | Y | The LRI of Tax 3                         |
| Tax3LRN       | Int               |    | Y | The LRN of Tax 3                         |
| TaxableAmount | Decimal           |    | Y | The value that taxes were calculated on. |

**Modifier:**

| Column                | Data type         | Max Length | Nullable | Notes   |
|-----------------------|-------------------|------------|----------|---|
| Id                    | Unique Identifier |            | N        | Primary Key   |
| MenuItemId            | Unique Identifier |            | N        | Foreign Key to the Menu Item  |
| ParentModifierId      | Unique Identifier |            | Y        | The modifier that this modifier modified. If NULL, this modifier modifies the Menu Item directly. |
| AmountDue             | Decimal           |            | Y        | Net Sale Amount plus taxes. This is the amount the customer pays.                                 |
| AutoCouponAmount      | Decimal           |            | Y        | The amount deducted from an automatically applied coupon.   |
| CashDiscountSurcharge | Bit               |            | Y        | Indicates that the item had a surcharge applied to it because it was not paid for in cash.        |
| Cost                  | Float             |            | Y        | The cost of this modifier. Cost is defined as the per unit cost *quantity * inventory factors.    |
| CourseName            | String            | 20         | Y        | The name of the course this item was served in.   |
| CourseERN             | String            | 36         | Y        | The ERN of the course this item was served in.  |
| CourseLRI             | Unique Identifier | 36         | Y        | The LRI of the course this item was served in.  |
| CourseLRN             | Int               |            | Y        | The LRN of the course this item was served in.  |
| CreatedOn             | DateTime          |            | N        | The date and time this item was rung onto the ticket.   |
| DiscountAmount        | Decimal           |            | Y        | The amount the item was discounted by   |
| DiscountERN           | String            | 36         | Y        | The ERN of the discount applied to this   |

|                      |                   |    |   |   |
|----------------------|-------------------|----|---|---|
|                      |                   |    |   | item.   |
| DiscountLRI          | Unique Identifier | 36 | Y | The LRI of the discount applied to this item.                                   |
| DiscountLRN          | Int               |    | Y | The LRN of the discount applied to this item.                                   |
| DiscountEmployeeId   | String            | 50 | Y | The name of the employee receiving the employee discount applied to the item.   |
| DiscountEmployeeERN  | String            | 36 | Y | The ERN of the employee receiving the employee discount applied to the item.    |
| DiscountEmployeeLRI  | Unique Identifier | 36 | Y | The LRI of the employee receiving the employee discount applied to the item.    |
| DiscountEmployeeLRN  | Int               |    | Y | The LRN of the employee receiving the employee discount applied to the item.    |
| DiscountName         | String            | 25 | Y | The name of the discount applied to this modifier.                              |
| DiscountTax1Amount   | Decimal           |    | Y | The amount the tax 1 was discounted by  |
| DiscountTax2Amount   | Decimal           |    | Y | The amount the tax 2 was discounted by  |
| DiscountTax3Amount   | Decimal           |    | Y | The amount the tax 3 was discounted by  |
| EmployeeId           | String            | 25 | N | The employee Id of the employee that rang in this item.                         |
| EmployeeERN          | String            | 36 | Y | The ERN of the employee that rang in this item.                                 |
| EmployeeLRI          | Unique Identifier | 36 | Y | The LRI of the employee that rang in this item.                                 |
| EmployeeLRN          | Int               |    | Y | The LRN of the employee that rang in this item.                                 |
| GrossSaleAmount      | Decimal           |    | Y | The Price per item * quantity. This before discounts and taxes.                 |
| InventoryUsage       | Float             |    | N | The quantity * the inventory factor   |
| ModifierGroup        | String            | 25 | Y | The Name of the modifier group the modifier is in.                              |
| ModifierGroupERN     | String            | 36 | Y | The ERN of the modifier group the modifier is in                                |
| ModifierGroupLRI     | Unique Identifier | 36 | Y | The LRI of the modifier group the modifier is in                                |
| ModifierGroupLRN     | Int               |    | Y | The LRN of the modifier group the modifier is in                                |
| ModifierOption       | String            | 50 | Y | The Name of the modifier option.  |
| ModifierOptionERN    | String            | 36 | Y | The ERN of the modifier option.   |
| ModifierOptionLRI    | Unique Identifier | 36 | Y | The LRI of the modifier option.   |
| ModifierOptionLRN    | Int               |    | Y | The LRN of the modifier option.   |
| Modifiers            | Modifier[]        |    | Y |   |
| NetSaleAmount        | Decimal           |    | Y | The Gross Sale Amount less discounts but before taxes                           |
| OpenModifier         | Bit               |    | N | The modifier will not have an ERN, LRI, or LRN as it is a non-inventoried item. |
| OriginalTicketNumber | String            | 20 | Y | The ticket number this menu item was original rung on.                          |
| PLU                  | String            | 14 | Y | The price look up of the item.  |

|                       |                   |    |   |   |
|-----------------------|-------------------|----|---|---|
| PriceLevelName        | String            | 25 | Y | The name of the price level the menu item was sold at.                |
| PriceLevelERN         | String            | 36 | Y | The ERN of the price level the menu item was sold at.                 |
| PriceLevelLRI         | Unique Identifier | 36 | Y | The LRI of the price level the menu item was sold at.                 |
| PriceLevelLRN         | Int               |    | Y | The LRN of the price level the menu item was sold at.                 |
| PromoAmount           | Decimal           |    | Y | Promotional amount redeemed to purchase this item.                    |
| QuantitySold          | Float             |    | Y | The quantity of the item sold.  |
| RefundFlag            | Bit               |    | N | True if this modifier is being refunded.                              |
| RewardPointsEarned    | Float             |    | Y | The number of reward points earned in purchasing this modifier.       |
| RewardPointsRedeem    | Float             |    | Y | The number of rewards points used to purchase this modifier.          |
| ReportingCategoryName | String            | 25 | N | The name of the reporting category for this modifier.                 |
| ReportingCategoryERN  | String            | 36 | Y | The ERN of the reporting category for this modifier.                  |
| ReportingCategoryLRI  | Unique Identifier | 36 | Y | The LRI of the reporting category for this modifier.                  |
| ReportingCategoryLRN  | Int               |    | Y | The LRN of the reporting category for this modifier.                  |
| SegmentName           | String            | 30 | Y | Then name of the segment this item is divided into.                   |
| SegmentERN            | String            | 36 | Y | Then ERN of the segment this item is divided into.                    |
| SegmentLRI            | Unique Identifier | 36 | Y | Then LRI of the segment this item is divided into.                    |
| SegmentLRN            | Int               |    | Y | Then LRN of the segment this item is divided into.                    |
| SortOrder             | Int               | 4  | N | The sort order of the menu items and modifiers entered on the ticket. |
| StationName           | String            | 25 | N | The name of the station where the item was rung.                      |
| StationERN            | String            | 36 | Y | The ERN of the station where the item was rung.                       |
| StationLRI            | Unique Identifier | 36 | Y | The LRI of the station where the item was rung.                       |
| StationLRN            | Int               |    | Y | The LRN of the station where the item was rung.                       |
| Tax1Amount            | Decimal           |    | Y | The amount of Tax from Tax 1  |
| Tax1Name              | String            | 25 | Y | The name of Tax 1   |
| Tax1ERN               | String            | 36 | Y | The ERN of Tax 1  |
| Tax1LRI               | Unique Identifier | 36 | Y | The LRI of Tax 1  |
| Tax1LRN               | Int               |    | Y | The LRN of Tax 1  |
| Tax2Amount            | Decimal           |    | Y | The amount of Tax from Tax 2  |
| Tax2Name              | String            | 25 | Y | The name of Tax 2   |
| Tax2ERN               | String            | 36 | Y | The ERN of Tax 2  |
| Tax2LRI               | Unique Identifier | 36 | Y | The LRI of Tax 2  |
| Tax2LRN               | Int               |    | Y | The LRN of Tax 2  |



|                    |                   |    |   |  |
|--------------------|-------------------|----|---|--|
| Tax3Amount         | Decimal           |    | Y | The amount of Tax from Tax 3             |
| Tax3Name           | String            | 25 | Y | The name of Tax 3                        |
| Tax3ERN            | String            | 36 | Y | The ERN of Tax 3                         |
| Tax3LRI            | Unique Identifier | 36 | Y | The LRI of Tax 3                         |
| Tax3LRN            | Int               |    | Y | The LRN of Tax 3                         |
| TaxableAmount      | Decimal           |    | Y | The value that taxes were calculated on. |
| UniqueModifierName | String            | 25 | N | The unique name of this modifier         |
| UniqueModifierERN  | String            | 36 | Y | The ERN of the unique modifier           |
| UniqueModifierLRI  | Unique Identifier | 36 | Y | The LRI of the unique modifier           |
| UniqueModifierLRN  | Int               |    | Y | The LRN of the unique modifier           |

**GiftCardIncrease:**

| Column             | Data type         | Max Length | Nullable | Notes   |
|--------------------|-------------------|------------|----------|---|
| Id                 | Unique Identifier |            | N        | Primary Key   |
| TicketId           | Unique Identifier |            | N        | The ID of the ticket this Gift Card Increase is associated with   |
| AmountDue          | Decimal           |            | N        | Net Sale Amount plus taxes. This is the amount the customer pays.   |
| AnnualZCount       | Int               |            | Y        | Z report identifier. The number of Z's since the beginning of the year. The format is YYYYdddd where YYYY is the year and dddd is the number of Zs processed this year. |
| BusinessDate       | Date              |            | Y        | The business date of this ticket item.  |
| CreatedOn          | DateTime          |            | N        | The date and time this item was rung onto the ticket.   |
| DiscountAmount     | Decimal           |            | Y        | The amount the item was discounted by   |
| DiscountERN        | String            | 36         | Y        | The ERN of the discount applied to this item.   |
| DiscountLRI        | Unique Identifier | 36         | Y        | The LRI of the discount applied to this item.   |
| DiscountLRN        | Int               |            | Y        | The LRN of the discount applied to this item.   |
| DiscountName       | String            | 25         | Y        | The name of the discount applied to this item.  |
| EmployeeId         | String            | 25         | N        | The employee Id of the employee that rang in this item.   |
| EmployeeERN        | String            | 36         | Y        | The ERN of the employee that rang in this item.   |
| EmployeeLRI        | Unique Identifier | 36         | Y        | The LRI of the employee that rang in this item.   |
| EmployeeLRN        | Int               |            | Y        | The LRN of the employee that rang in this item.   |
| GiftIncreaseAmount | Decimal           |            | Y        | The amount the gift card was increased by   |
| OrderType          | String            | 15         | N        | The name of the order type.   |
| OrderTypeERN       | String            | 36         | Y        | The ERN of the order type.  |

|                      |                   |    |   |   |
|----------------------|-------------------|----|---|---|
| OrderTypeLRI         | Unique Identifier | 36 | Y | The LRI of the order type.  |
| OrderTypeLRN         | Int               |    | Y | The LRN of the order type.  |
| OriginalTicketNumber | String            | 20 | Y | The ticket number this menu item was original rung on.                |
| QuantitySold         | Float             |    | Y | The quantity of the item sold.  |
| RewardPointsEarned   | Float             |    | Y | The number of rewards points earned                                   |
| RewardPointsRedeem   | Float             |    | Y | The number of rewards points used to purchase this modifier.          |
| RewardCardNumber     | String            | 9  | Y | The Reward Card Number points were added to or subtracted from.       |
| SeatNumber           | Int               |    | Y | The seat number ordering the item.                                    |
| SortOrder            | Int               |    | N | The sort order of the menu items and modifiers entered on the ticket. |
| StationERN           | String            | 36 | Y | The ERN of the station where the item was rung.                       |
| StationLRI           | Unique Identifier | 36 | Y | The LRI of the station where the item was rung.                       |
| StationLRN           | Int               |    | Y | The LRN of the station where the item was rung.                       |
| StationName          | String            | 25 | N | The name of the station where the item was rung.                      |

***GiftCertificateIncrease:***

| Column         | Data type         | Max Length | Nullable | Notes   |
|----------------|-------------------|------------|----------|---|
| Id             | Unique Identifier |            | N        | Primary Key   |
| TicketId       | Unique Identifier |            | N        | The ID of the ticket this Gift Certificate Increase is associated with  |
| AmountDue      | Decimal           |            | N        | Net Sale Amount plus taxes. This is the amount the customer pays.   |
| AnnualZCount   | Int               |            | Y        | Z report identifier. The number of Z's since the beginning of the year. The format is YYYYdddd where YYYY is the year and dddd is the number of Zs processed this year. |
| BusinessDate   | Date              |            | Y        | The business date of this ticket item.  |
| CreatedOn      | DateTime          |            | N        | The date and time this item was rung onto the ticket.   |
| DiscountAmount | Decimal           |            | Y        | The amount the item was discounted by   |
| DiscountERN    | String            | 36         | Y        | The ERN of the discount applied to this item.   |
| DiscountLRI    | Unique Identifier | 36         | Y        | The LRI of the discount applied to this item.   |
| DiscountLRN    | Int               |            | Y        | The LRN of the discount applied to this item.   |
| DiscountName   | String            | 25         | Y        | The name of the discount applied to this item.  |
| EmployeeId     | String            | 25         | N        | The employee Id of the employee that rang in this item.   |
| EmployeeERN    | String            | 36         | Y        | The ERN of the employee that rang in this item.   |

|                      |                   |    |   |   |
|----------------------|-------------------|----|---|---|
| EmployeeLRI          | Unique Identifier | 36 | Y | The LRI of the employee that rang in this item.                       |
| EmployeeLRN          | Int               |    | Y | The LRN of the employee that rang in this item.                       |
| GiftIncreaseAmount   | Decimal           |    | Y | The amount the gift certificate was increased by                      |
| OrderType            | String            | 15 | N | The name of the order type.   |
| OrderTypeERN         | String            | 36 | Y | The ERN of the order type.  |
| OrderTypeLRI         | Unique Identifier | 36 | Y | The LRI of the order type.  |
| OrderTypeLRN         | Int               |    | Y | The LRN of the order type.  |
| OriginalTicketNumber | String            | 20 | Y | The ticket number this menu item was original rung on.                |
| QuantitySold         | Float             |    | Y | The quantity of the item sold.  |
| RewardPointsEarned   | Float             |    | Y | The number of rewards points earned                                   |
| RewardPointsRedeem   | Float             |    | Y | The number of rewards points used to purchase this modifier.          |
| RewardCardNumber     | String            | 9  | Y | The Reward Card Number points were added to or subtracted from.       |
| SeatNumber           | Int               |    | Y | The seat number ordering the item.                                    |
| SortOrder            | Int               |    | N | The sort order of the menu items and modifiers entered on the ticket. |
| StationERN           | String            | 36 | Y | The ERN of the station where the item was rung.                       |
| StationLRI           | Unique Identifier | 36 | Y | The LRI of the station where the item was rung.                       |
| StationLRN           | Int               |    | Y | The LRN of the station where the item was rung.                       |
| StationName          | String            | 25 | N | The name of the station where the item was rung.                      |

**Payment:**

Records a payment where a payment is cash, credit card, or coupon. Rewards and Loyalty purchases are recorded against the menu item.

| Column         | Data type         | Max Length | Nullable | Notes  |
|----------------|-------------------|------------|----------|--|
| Id             | Unique Identifier |            | N        | Primary Key  |
| TicketId       | Unique Identifier |            | N        | Foreign Key to the Ticket  |
| AnnualZCount   | Int               |            | Y        | The number of Z's since the beginning of the year. The format is YYYYdddd where YYYY is the year and dddd is the number of Zs processed this year. |
| BusinessDate   | DateTime          |            | N        | The business date of the payment.  |
| CardHolderName | String            | 26         | Y        | The card holder's name for credit card payments  |
| CardType       | String            | 20         | Y        | AMEX, DISCOVER, MASTERCARD, DINERS, VISA   |
| ChangeGiven    | Decimal           |            | Y        |  |
| ChangeKept     | Decimal           |            | Y        |  |
| CouponName     | String            | 20         | Y        | Name of the coupon   |
| CouponERN      | String            | 36         | Y        | The ERN of the coupon used in this transaction   |

|                             |                   |    |   |  |
|-----------------------------|-------------------|----|---|--|
| CouponLRI                   | Unique Identifier | 36 | Y | The LRI of the coupon used in this transaction                       |
| CouponLRN                   | Int               |    | Y | The LRN of the coupon used in this transaction                       |
| CouponPercent               | Float             |    | Y | The percent reduction in cost due to the coupon                      |
| CouponType                  | String            | 50 | Y | The type of coupon used  |
| CreditCardNumberLast4Digits | String            | 4  | Y | Last 4 digits of the credit card                                     |
| EmployeeName                | String            | 25 | N | The employee Id of the employee that rang in this item.              |
| EmployeeERN                 | String            | 36 | Y | The ERN of the employee that rang in this item.                      |
| EmployeeLRI                 | Unique Identifier | 36 | Y | The LRI of the employee that rang in this item.                      |
| EmployeeLRN                 | Int               |    | Y | The LRN of the employee that rang in this item.                      |
| ForeignAmount               | Decimal           |    | Y | The amount paid in foreign currency                                  |
| IncentiveCardNumber         | String            | 9  | Y | The card number used to make a loyalty/reward card payment           |
| PaymentTakenOn              | DateTime          |    | N | Date and time that the payment was taken                             |
| PaymentType                 | Int               |    | N | Type of payment  |
| PaymentName                 | String            | 50 | N | Name of the payment type   |
| PaymentERN                  | String            | 36 | Y | The ERN of the payment type  |
| PaymentLRI                  | Unique Identifier | 36 | Y | The LRI of the payment type  |
| PaymentLRN                  | Int               |    | Y | The LRN of the payment type  |
| StationName                 | String            | 25 | N | The name of the station where the payment was taken.                 |
| StationERN                  | String            | 36 | Y | The ERN of the station where the payment was taken.                  |
| StationLRI                  | Unique Identifier | 36 | Y | The LRI of the station where the payment was taken.                  |
| StationLRN                  | Int               |    | Y | The LRN of the station where the payment was taken.                  |
| TipAmount                   | Decimal           |    | Y | The amount of tip including the amount the house keeps from the tip. |
| TipHouseAmount              | Decimal           |    | Y | Amount the house keeps from the tip.                                 |
| TotalAmount                 | Decimal           |    | Y | The total amount paid including the tip amount                       |

## Time Clock Methods

Time clock data is not locked after any amount of time. That is, an adjustment to a time clock entry can be made at any time in the future. Therefore, who clocked in when and how long they worked could change at any time.

Note that a clock out is required before the data for the individual interaction to be uploaded.

## Time Clock Adjustments

### What Triggers and Adjustment?

Adjusting any of the following creates an adjustment record.

- Clock in time
- Clock out time
- Job type
- Pay Rate
- Cash Tips
- Credit card Tips
- Account tips
- Auto Gratuity tips
- Sales total

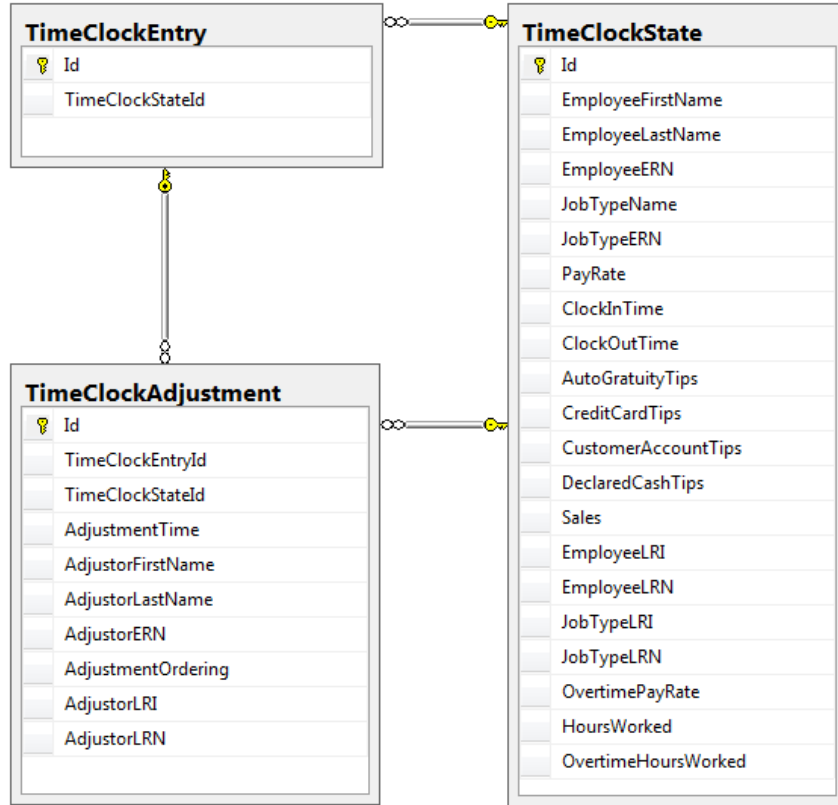
Creating a clock in entry creates an adjustment record. Deleting a clock entry also creates an adjustment record.

### How is the Data Related

In every scenario, a TimeClockEntry is created. The TimeClockEntry ties all of the details together. In the majority of cases, you will have a TimeClockEntry and an associated TimeClockState. If adjustments have been performed, they will be related to the TimeClockEntry and point to new TimeClockStates. TimeClockAdjustments are ordered. When processing adjustments, it is important to process them in order.

### Special Cases

If the user clocks in, then the TimeClockEntry will have a TimeClockState. If the manager clocks in an employee then the TimeClockEntry's TimeClockState will be null. The manager clock in will be captured as an adjustment. The adjustments state represents the clock in. If the TimeClockEntry is deleted, the last TimeClockAdjustment's TimeClockState will be null.



## Metadata

SOAP : GetMetadata

REST: /Metadata

Returns summary information about your data. Specifically, it returns the earliest Clock In time and the latest Clock Out time. This method should be used to ensure data is available before calling other methods.

## Returns

### *TimeClockMetadata:*

| Name                | Data Type | Notes |
|---------------------|-----------|-------|
| EarliestClockInTime | DateTime  |       |
| LatestClockOutTime  | DateTime  |       |

## GetAdjustedTimeClockData

SOAP : GetAdjustedTimeClockData

REST: /AdjustedTimeClockData

Returns adjusted time clock entries whose clock out time is after the “from date” and before the “to date” at the time of the request.

## Parameters

| Name     | Data Type | Notes                                    |
|----------|-----------|--|
| fromDate | DateTime  | This is filtering on the Clock Out time. |
| toDate   | DateTime  | This is filtering on the Clock Out time. |

## Returns

### *TimeClockState:*

| Name                  | Data Type         | Max Length | Nullable | Notes  |
|-----------------------|-------------------|------------|----------|--|
| AutoGratuityTips      | Decimal           |            | N        | The amount of tips collected via Auto Gratuity                     |
| ClockInTime           | DateTime          |            | N        | The date and time of the clock in                                  |
| ClockOutTime          | DateTime          |            | N        | The date and time of the clock out                                 |
| CreditCardTips        | Decimal           |            | N        | The amount of tips from credit card transactions                   |
| CustomerAccountTips   | Decimal           |            | N        | The amount of tips from payments to customer accounts              |
| DeclaredCashTips      | Decimal           |            | N        | The amount of cash tips declared                                   |
| EmployeeERN           | String            | 36         | Y        | The ERN of the employee.   |
| EmployeeLRI           | Unique Identifier | 36         | Y        | The LRI of the employee.   |
| EmployeeLRN           | Int               |            | Y        | The LRN of the employee.   |
| EmployeeFirstName     | String            | 25         | N        | The employee's first name.   |
| EmployeeLastName      | String            | 25         | N        | The employee's last name.  |
| Id                    | Guid              |            | N        | Unique Id for this record  |
| JobTypeERN            | String            | 36         | Y        | The ERN assigned to the job type.                                  |
| JobTypeLRI            | Unique Identifier | 36         | Y        | The LRI assigned to the job type.                                  |
| JobTypeLRN            | Int               |            | Y        | The LRN assigned to the job type.                                  |
| JobTypeName           | String            | 25         | N        | The name of the job type   |
| PayRate               | Decimal           |            | N        | The payrate for this clock in/out                                  |
| Sales                 | Decimal           |            | N        | The amount of sales generated for this clock in/out                |
| HoursWorked *         | Float             |            | Y        | This is the number of hours worked at the pay rate.(Regular hours) |
| OvertimePayRate *     | Decimal           |            | Y        | This is the overtime pay rate for this clock in/out.               |
| OvertimeHoursWorked * | Float             |            | Y        | This is the number of hours worked at the overtime pay rate.       |

\* HoursWorked, OvertimePayRate and OvertimeHoursWorked require 2Touch version 4.10

## RawTimeClockData

SOAP : GetRawTimeClockData

REST: /RawTimeClockData

Returns the raw data for time clock interactions. The way the DataKey captures time clock data is through a sequence of TimeClockStates. The first state is normally created when the user clocks in. This state is also used to capture the clock out time so long as no adjustments are made. Each new state represents the best data at that moment.

### Parameters

| Name     | Data Type | Notes |
|----------|-----------|-------|
| fromDate | DateTime  |       |
| toDate   | DateTime  |       |

### Returns

#### *RawTimeClockData:*

| Name        | Data Type             | Notes                           |
|-------------|-----------------------|---------------------------------|
| Adjustments | TimeClockAdjustment[] | The array of adjustments        |
| Entries     | TimeClockEntry[]      | The array of time clock entries |

#### *TimeClockAdjustment:*

| Name               | Data Type         | Max Length | Nullable | Notes  |
|--------------------|-------------------|------------|----------|--|
| AdjustmentOrdering | Int               |            | N        | An integer indicating the order in which this adjustment occurred                        |
| AdjustmentTime     | DateTime          |            | N        | The date and time the adjustment occurred  |
| AdjustorERN        | String            | 36         | Y        | The ERN of the employee that made the adjustment   |
| AdjustorLRI        | Unique Identifier | 36         | Y        | The LRI of the employee that made the adjustment   |
| AdjustorLRN        | Int               |            | Y        | The LRN of the employee that made the adjustment   |
| AdjustorFirstName  | String            | 25         | N        | The first name of the employee that made the adjustment                                  |
| AdjustorLastName   | String            | 25         | N        | The last name of the employee that made the  |
| Id                 | Guid              |            | N        | Unique Id for this record  |
| TimeClockEntryId   | Guid              |            | N        | The id of the time clock entry being adjusted  |
| TimeClockState     | TimeClockState    |            | Y        | The resulting state from this adjustment. See TimeClockState in GetAdjustedTimeClockData |

#### *TimeClockEntry:*

| Name             | Data Type      | Notes   |
|------------------|----------------|---|
| Id               | Guid           | The id of the time clock entry                      |
| TimeClockState   | TimeClockState | The time clock state created on clock in.           |
| TimeClockStateId | Guid           | The id of the time clock state created on clock in. |





## Realtime Methods

Realtime data is a summary of the day's current sales and staffing levels. It is composed of:

1. Current metrics such as the number of open tickets and labor.
2. Summarized data based on the previous rolling hour.
3. Summarized sales data since the last Z and labor data since the start of the business day.

SOAP : GetData

REST: /Data

### Returns

#### *RealtimeData:*

| Name         | Data Type    | Notes |
|--------------|--------------|-------|
| CapturedOn   | DateTime     |       |
| LocationName | DateTime     |       |
| ProductId    | string       |       |
| Sales        | SalesSummary |       |
| Labor        | LaborSummary |       |

#### *SalesSummary:*

| Name                | Data Type     | Notes |
|---------------------|---------------|-------|
| Current             | SalesSnapshot |       |
| PreviousRollingHour | SalesTimeSpan |       |
| SinceLastZ          | SalesTimeSpan |       |

#### *SalesSnapShot:*

| Name       | Data Type | Notes |
|------------|-----------|-------|
| OpenChecks | Checks    |       |

#### *SalesTimeSpan:*

| Name                 | Data Type       | Notes |
|----------------------|-----------------|-------|
| CashSales            | Decimal         |       |
| ClosedChecks         | Checks          |       |
| CompAmount           | Decimal         |       |
| CreditCardSales      | Decimal         |       |
| OtherSales           | Decimal         |       |
| PaidOutAmount        | Decimal         |       |
| SpillAmount          | Decimal         |       |
| TotalDiscountAmount  | Decimal         |       |
| VoidAmount           | Decimal         |       |
| SalesByDepartment    | SalesGrouping[] |       |
| SalesByRevenueCenter | SalesGrouping[] |       |
| SalesByStation       | SalesGrouping[] |       |
| SalesByServer        | SalesGrouping[] |       |
| TopMenuItems         | MenuItem[]      |       |

#### *Checks:*

| Name        | Data Type | Notes |
|-------------|-----------|-------|
| TotalAmount | Decimal   |       |
| CheckCount  | Int       |       |

|            |     |  |
|------------|-----|--|
| GuestCount | Int |  |
|------------|-----|--|

**SalesGrouping:**

| Name  | Data Type | Notes |
|-------|-----------|-------|
| Name  | String    |       |
| ERN   | String    |       |
| LRN   | Int       |       |
| LRI   | Guid      |       |
| Sales | Decimal   |       |

**MenuItem:**

| Name   | Data Type | Notes |
|--------|-----------|-------|
| Name   | String    |       |
| ERN    | String    |       |
| LRN    | Int       |       |
| LRI    | Guid      |       |
| Amount | Decimal   |       |
| Count  | Decimal   |       |

**LaborSummary:**

| Name                 | Data Type         | Notes |
|----------------------|-------------------|-------|
| Current              | JobTypeSnapshot[] |       |
| PreviousRollingHour  | JobTypeTimeSpan[] |       |
| SinceStartOfBusiness | JobTypeTimeSpan[] |       |

**JobTypeSnapShot:**

| Name          | Data Type | Notes |
|---------------|-----------|-------|
| Name          | String    |       |
| ERN           | String    |       |
| LRN           | Int       |       |
| LRI           | Guid      |       |
| ProjectedCost | Decimal   |       |
| Count         | Int       |       |

**JobTypeTimeSpan:**

| Name            | Data Type | Notes |
|-----------------|-----------|-------|
| Name            | String    |       |
| ERN             | String    |       |
| LRN             | Int       |       |
| LRI             | Guid      |       |
| Cost            | Decimal   |       |
| ClockedInCount  | Int       |       |
| ClockedOutCount | Int       |       |
| AverageCount    | float     |       |