Beyond Safefood 360 with the Developers API

Philip Gillen, Chief Operating Officer

Definition

In information technology, “integration” is the process of linking together different computing systems and software applications physically or functionally, to act as a coordinated whole.

Business software

- Sales Department – CRM
- HR Group – HRM / Payroll
- Finance – ERP
- Quality – FSMS / QMS
- + 200 other software applications!

Consequences

- Software silos

Consequences

- Software silos
- Customer / supplier list?!
- Manual data duplication
- Change control difficult

Integration

- One congruous and harmonious ecosystem

Integration

- One congruous and harmonious ecosystem
- One version of the truth
- Reduced double entry and errors
- Increased agility and competitive advantage

REALITY
CHECK
AHEAD

Reality of Integration

- Complex
- Costly
- High abandon / failure rate

How to Integrate

Steps to Integration

1. Embed existing systems
2. Identify integration points
3. Establish business case / ROI
4. Decide EAI versus Point-to-Point

Steps to Integration

5. Prepare project plan
6. Develop / test integration
7. Implement
8. Validate

Integration Opportunities

Master Data

- Customer / Supplier List
- Item / Product / Material List
- Employee Data
- Documents

Module Data

- Complaints
- Monitoring
- Training

Third Party Services

- Pest Inspections
- Laboratory Micro testing
- Audits

Other

- Single Sign On

Developer API

What is an API

- A set of programming instructions
- A specification
- A manual
- Templates / samples

Safefood 360 Develo ×

https://developers.safefood360.com

Safefood 360° Developer Portal

HOME APIS PRODUCTS APPLICATIONS ISSUES SIGN IN

Welcome to the developer portal!

Developers can discover and learn about the Safefood 360 API and sign up for a Key to begin building new applications leveraging the Safefood 360 platform. This portal is designed to equip you with all the tools, information and resources you need to develop your new solution quickly and easily. Sign up below to get started.

Sign up

API Documentation & Support

Safefood 360 employs a Web API framework making it easy to build HTTP services that reach a broad range of clients, including browsers and mobile devices. The RESTful API supports the standard HTTP methods GET, POST, PUT and DELETE.

Check out the API Documentation that describes how to use the APIs and includes code samples in multiple languages. The API Console allows you to directly interact with the API right here in the developer portal.

As an API developer you can can log and discuss issues and even submit your applications to the application gallery. At all times you will have access to the developer support team who will be more than happy to help you with your project.

Endless Possibilities

There are endless possibilities with the Safefood 360 API including integrations with in-house ERP systems like SAP, Oracle and Dynamics. You can also build innovative and useful solutions which extend the Safefood 360 platform to new and exciting places.

SAP Microsoft Dynamics ORACLE sage NETSUITE

Because the API adheres to industry best practise in architecture and technologies employed you will find developing against the Safefood 360 API to be a familiar experience.

Safefood 360° Developer Portal

POST AddCustomer
GET GetCustomer
GET GetCustomerList
PUT UpdateCustomer

Customer

This API allows operations on the Customer entity in Safefood 360.

URL	https://api.safefood360.com/customer
Methods supported	GET, PUT, POST
Operations	AddCustomer: Adds a new Customer GetCustomer: Returns details on a specific Customer GetCustomerList: Returns a list of all Customers UpdateCustomer: Updates a specific Customer

AddCustomer

This **POST** operation adds a new Customer.

Try it

Request URL

https://api.safefood360.com/customer/AddCustomer

Request headers

Content-Type (optional)	string	Media type of the body sent to the API.
Ocp-Apim-Subscription-Key	string	Subscription key which provides access to this API. Found in your Profile.

Request body

The following elements are required.

Name	The name of the Customer.

application/json

Safefood 360 Develo

https://developers.safefood360.com/docs/services/54f85bf55e956b04e8a7d563/operations/54f85bf55e956b00743ff1b9

A successful POST will return the Id generated for the new Customer.

application/json


```
{
"Error": "",
"Message": "Success.",
"Id": "995d1a88-0d8b-4811-bb79-a45900bc2b24"
}
```


Code samples

Curl | C# | Java | JavaScript | ObjC | PHP | Python | Ruby

```
using System;
using System.Net.Http.Headers;
using System.Text;
using System.Net.Http;
using System.Web;

namespace CSHttpClientSample
{
    static class Program
    {
        static void Main()
        {
            MakeRequest();;
            Console.WriteLine("Hit ENTER to exit...");
            Console.ReadLine();
        }

        static async void MakeRequest()
        {
            var client = new HttpClient();
            var queryString = HttpUtility.ParseQueryString(string.Empty);

            // Request headers
            client.DefaultRequestHeaders.Add("Content-Type", "application/json");
            client.DefaultRequestHeaders.Add("Ocp-Apim-Subscription-Key", "{subscription key}");

            var uri = "https://api.safefood360.com/customer/AddCustomer&" + queryString;

            HttpResponseMessage response;

            // Request body
```

Example

Customer Complaint

Integration “within”

Integration within

- Master Data
- Supplier/Customer Portals
- Related Records
- New Workflow / Rules module!

Rule

Rule Details

Folder: Rules

New Folder | Rename | Delete

Module: Complaints

Record: Complaint

Risk: High

Stage: Complaint Detail

Status: Closed | 0 days

Alert Details

Alert Description: High Risk Complaint has been logged and Requires Review

Send To

Contact	Dashboard	Email	SMS	Push	
Colman, Janice (Quality Controller)	☑	☑	☐	☐	×

Add Line

Record: Complaint

Risk: High

Stage: Complaint Detail

Status: Closed | 0 days

Alert Details

Alert Description: High Risk Complaint has been logged and Requires Review

Send To

Contact	Dashboard	Email	SMS	Push	
Colman, Janice (Quality Controller)	☑	☑	☐	☐	×

Add Line

Attach PDF to email alert? ☐

Action Details

Generate Record

Record	
Management Review	×
Corrective Action	×
Quality Control Checks	×

Add Line

Save Cancel

Send To

Contact	Dashboard	Email	SMS	Push	
Colman, Janice (Quality Controller)	☑	☑	☐	☐	×

Add Line

Attach PDF to email alert? ☐

Action Details

Generate Record

Record	
Management Review	×
Corrective Action	×
Quality Control Checks	×

Add Line

Webhooks

Post to URL	Description	
https://webhoorks.abcfoodcompany.com/md-line/patlite6	Turn on red light on Patlite	×
https://webhoorks.abcfoodcompany.com/md-line/audible-alarm	Sound audible alarm	×

Add Line

Save Cancel

Summary

- Integration can bring benefits (reality check!)
- Must be a solid business case or forget it
- Master data – biggest bang for your buck
- Remember integration within!

Thank you