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System Requirement Specification

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SPORIFY

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Disclaimer

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1 Introduction

This document describes the system requirements for SPORIFY and outlines the general architecture of the System.

2 System Overview

SPORIFY is a purpose built solution to match and manage SPOR controlled vocabularies. Our system provides users with a simplified and centralised method to control the data they require for IDMP from the EMA SPOR master data services. Our intuitive user interface helps to manage company terms and match them with externally hosted controlled vocabularies for the following data domains: SPOR (Referentials, Organisations) and (G-SRS, EUTCT) Substances. SPORIFY matches, maintains, synchronises and integrates SPOR data with local terms, saving users up to 75% of time and effort on the initial matching and automatically maintaining the data as SPOR updates into the future with automated updates and alerts. Our out of the box, follow favourites and notification service alerts users to relevant data changes for data they are interested in. No need to manually monitor changing terms, we let you know when something you are interested in changes.

3 System Architecture

The SPORIFY service acts as a data broker between your internal source system data and externally managed regulatory data such as EMA SPOR and G-SRS. Your source terminologies are imported to SPORIFY where they are automatically or manually matched to the relevant target system data. SPORIFY monitors data changes on target systems and notifies you of changes relevant to you. All matched data is available for export via Excel or API.
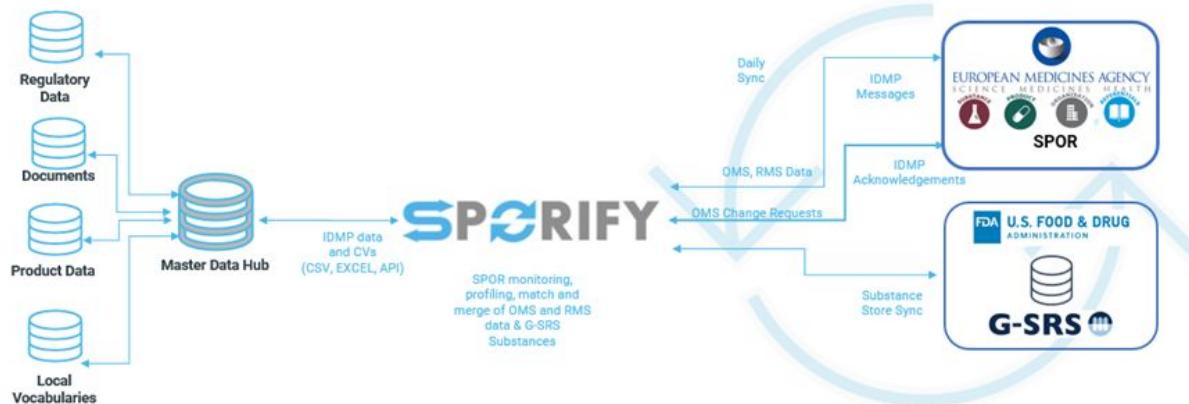
3.1 Technology

SPORIFY is a cloud hosted SaaS solution hosed in AWS. The service is based Microsoft .Net technology and on angular web technology which requires a modern web browser to run efficiently. We recommend that browsers are kept up to date and we support the latest version of the following:

Browser	Supported Version
Chrome	latest
Firefox	latest
Edge	latest
Internet Explorer	latest

The system has been tested successfully in Internet Explorer 11.70. However, it is not recommended to run the system in older versions of Internet Explorer due to possible compatibility issues with the angular framework technology used by the system.

3.2 Interfaces and services

The SPORIFY background synchronisation service uses the following interfaces and services.

- EMA SPOR API (https://spor.ema.europa.eu/)
- G-SRS Substance API (https://gsrs.ncats.nih.gov/)

- EUTCT Substance Lists (http://eutct.ema.europa.eu/)
- XEVMPD Substance List (https://www.ema.europa.eu/documents/other/eudravigilance-extended-medicinal-product-dictionary-xevmpd-substances_en.xlsx)

3.2.1 Sync Schedule

SPORIFY runs a nightly sync to pull data from the above services and APIs, this sync runs at 4am GMT and its duration is dependent on the number of records to update however on average the sync will take approximately 2 hours to complete.

3.3 3rd Party Software Components

The SPORIFY Software is using the following original components, in their public known version at the time the version of SPORIFY was released:

Component	Description	Link	License
Hangfire	Recurring background jobs	https://github.com/HangfireIO/Hangfire	LGPLv3[1]
ASP.NET[2] Boilerplate	Web Application Framework	https://github.com/aspnetboilerplate/aspnetboilerplate	MIT License[3]
AutoMapper	Map objects from one type to another	https://github.com/AutoMapper/AutoMapper	MIT License[4]
Swashbuckle	API documentation	https://github.com/domaindrivendev/Swashbuckle.AspNetCore	MIT License[5]
Newtonsoft.Json	JSON framework	https://github.com/JamesNK/Newtonsoft.Json	MIT License[6]
EntityFramework	Object relational mapper	https://github.com/dotnet/ef6	Apache-2.0[7]

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[1] https://github.com/HangfireIO/Hangfire/blob/master/LICENSE.md
[2] http://ASP.NET
[3] https://github.com/aspnetboilerplate/aspnetboilerplate/blob/dev/LICENSE
[4] https://github.com/AutoMapper/AutoMapper/blob/master/LICENSE.txt
[5] https://github.com/domaindrivendev/Swashbuckle.AspNetCore/blob/master/LICENSE
[6] https://github.com/JamesNK/Newtonsoft.Json/blob/master/LICENSE.md
[7] https://github.com/dotnet/ef6/blob/main/LICENSE.txt

Component	Description	Link	License
log4net	Log to various targets	https://logging.apache.org/log4net/	Apache-2.0[8]
Google.Apis	.NET libraries for Google Cloud APIs	https://github.com/googleapis/google-cloud-dotnet	Apache-2.0[9]
AsyncEx	Helper library for async/await code in .NET	https://github.com/StephenCleary/AsyncEx	MIT License[10]
WebGrease	Optimize Javascript, CSS and image files	https://www.nuget.org/packages/WebGrease	Individual[11]
StackExchange.Redis	Redis client	https://github.com/StackExchange/StackExchange.Redis	MIT License[12]
Recaptcha.NET[13]	reCAPTCHA library for .NET	https://github.com/tanveery/recaptcha-net	Apache-2.0[14]
Antlr	Language tool for creating interpreters	https://github.com/antlr/antlrcs	BSD License[15]
CsvHelper	Parse and generate CSV files	https://github.com/JoshClose/CsvHelper	Apache-2.0[16]
IPAddressRange	Library for handling IPv4 and IPv6 addresses	https://github.com/jsakamoto/ipaddressrange/	Mozilla Public License 2.0[17]
Quartz	Job Scheduler	https://github.com/quartznet/quartznet	Apache-2.0[18]

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[8] https://logging.apache.org/log4net/license.html
[9] https://github.com/googleapis/google-cloud-dotnet/blob/main/LICENSE
[10] https://github.com/StephenCleary/AsyncEx/blob/master/LICENSE
[11] https://www.microsoft.com/web/webpi/eula/aspnetcomponent_rtw_ENU.htm
[12] https://github.com/StackExchange/StackExchange.Redis/blob/main/LICENSE
[13] http://Recaptcha.NET
[14] https://github.com/tanveery/recaptcha-net/blob/master/LICENSE
[15] https://github.com/antlr/antlrcs/blob/master/LICENSE.txt
[16] https://github.com/JoshClose/CsvHelper/blob/master/LICENSE.txt
[17] https://github.com/jsakamoto/ipaddressrange/blob/master/LICENSE
[18] http://www.apache.org/licenses/LICENSE-2.0

Component	Description	Link	License
Castle Project	object invocation framework	https://github.com/castleproject/Windsor	Apache-2.0[19]
Angular	web application framework	https://github.com/angular/angular	MIT License[20]
jQuery	Javascript framework	https://jquery.com	MIT license[21]
SignalR	Websocket framwork	https://github.com/SignalR/SignalR	Apache-2.0[22]
Bootstrap	Javascript framework	https://github.com/twbs/bootstrap	MIT License[23]
jQuery slimScroll	jQuery plugin	https://github.com/rochal/jQuery-slimScroll	MIT License & GPL[24]
jQuery BlockUI	jQuery plugin	https://github.com/malsup/blockui	MIT License & GPL[25]
js-cookie	browser cookies framework	https://github.com/js-cookie/js-cookie	MIT License[26]
Uniform	jQuery plugin	https://github.com/AudithSoftworks/Uniform	MIT License[27]
localForage	storage library for JavaScript	https://github.com/localForage/localForage	Apache License 2.0[28]

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[19] https://github.com/castleproject/Windsor/blob/master/LICENSE
[20] https://github.com/angular/angular/blob/main/LICENSE
[21] https://jquery.org/license/
[22] https://github.com/SignalR/SignalR/blob/main/LICENSE.txt
[23] https://github.com/twbs/bootstrap/blob/v4.0.0/LICENSE
[24] https://github.com/rochal/jQuery-slimScroll/blob/master/README.md
[25] https://github.com/malsup/blockui
[26] https://github.com/js-cookie/js-cookie/blob/main/LICENSE
[27] https://github.com/AudithSoftworks/Uniform/blob/4.0/LICENSE.txt
[28] https://github.com/localForage/localForage/blob/master/LICENSE

Component	Description	Link	License
morris.js	Charts for JavaScript	https://morrisjs.github.io/morris.js/	BSD License[29]
jQuery MiniColors	jQuery plugin	https://github.com/claviska/jquery-minicolors	MIT License[30]
Apache ECharts	Charts for JavaScript	https://github.com/apache/echarts	Apache License 2.0[31]
Raphaël	Cross-browser vector graphics	https://github.com/DmitryBaranovskiy/raphael	MIT License[32]
jQuery Sparklines	jQuery plugin	https://github.com/gwatts/jquery.sparkline	BSD[33]
jQuery Color	jQuery plugin	https://github.com/jquery/jquery-color	CC0[34]
Jcrop Image Cropping Plugin	jQuery plugin	https://github.com/tapmodo/Jcrop	MIT License[35]
Timeago	jQuery plugin	https://github.com/rmm5t/jquery-timeago	MIT License[36]
jstree	jQuery plugin	https://github.com/vakata/jstree	MIT License[37]
jQuery Spin	jQuery plugin	https://github.com/ksylvest/jquery-spin	MIT License[38]

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[29] https://morrisjs.github.io/morris.js/#license
[30] https://github.com/claviska/jquery-minicolors/blob/master/LICENSE.md
[31] https://github.com/apache/echarts/blob/master/LICENSE
[32] https://github.com/DmitryBaranovskiy/raphael/blob/master/license.txt
[33] https://github.com/gwatts/jquery.sparkline
[34] https://github.com/jquery/jquery-color/blob/main/LICENSE.txt
[35] https://github.com/tapmodo/Jcrop/blob/master/MIT-LICENSE.txt
[36] https://github.com/rmm5t/jquery-timeago/blob/master/LICENSE.txt
[37] https://github.com/vakata/jstree/blob/master/LICENSE-MIT
[38] https://github.com/ksylvest/jquery-spin/blob/master/LICENSE

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Component	Description	Link	License
sweet-alert	Modal dialog for JavaScript	https://github.com/t4t5/sweetalert	MIT License[39]
Push	Javascript desktop notifications	https://github.com/Nickersoft/push.js	MIT License[40]
toastr	toastr is a JavaScript library for non-blocking notifications	https://github.com/CodeSeven/toastr	MIT License[41]
Moment.js	JavaScript date library	https://github.com/moment/moment/	MIT License[42]
Underscore.js	Library for JavaScript	https://github.com/jashkenas/underscore	MIT License[43]
easy-pie-chart	jQuery plugin	https://github.com/rendro/easy-pie-chart	MIT License[44]
fontawesome-iconpicker	Plugin for Bootstrap	https://github.com/itsjavi/fontawesome-iconpicker	MIT License[45]
jquery.cookieBar	jQuery plugin	https://github.com/carlwoodhouse/jquery.cookieBar	MIT License[46]
Select2	jQuery plugin	https://github.com/select2/select2	MIT License[47]
html2canvas	JavaScript Screenshot framework	https://gist.github.com/akovalyov/dde3a8d9bfc28c7511cb	MIT License[48]

[39] https://github.com/t4t5/sweetalert/blob/master/LICENSE.md
[40] https://github.com/Nickersoft/push.js/blob/master/LICENSE.md
[41] https://github.com/CodeSeven/toastr/blob/master/LICENSE
[42] https://github.com/moment/moment/blob/develop/LICENSE
[43] https://github.com/jashkenas/underscore/blob/master/LICENSE
[44] https://github.com/rendro/easy-pie-chart/blob/master/LICENSE
[45] https://github.com/itsjavi/fontawesome-iconpicker/blob/master/LICENSE
[46] https://github.com/carlwoodhouse/jquery.cookieBar/blob/master/license.txt
[47] https://github.com/select2/select2/blob/develop/LICENSE.md
[48] https://gist.github.com/akovalyov/dde3a8d9bfc28c7511cb

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Component	Description	Link	License
jsPDF	Library to generate PDFs in JavaScript	https://github.com/parallax/jsPDF	MIT License[49]
Pagination.js	jQuery plugin	https://github.com/superRaytin/paginationjs	MIT License[50]
jquery.autofocus.js	jQuery plugin	https://gist.github.com/weppos/426727	MIT License[51]
gmaps.js	Google Map Wrapper	https://github.com/hpneo/gmaps	MIT License[52]
Epplus	Excel helper library (4.5.3.3)	https://www.nuget.org/packages/EPPlus/4.5.3.3/	GNU LESSER GENERAL PUBLIC LICENSE[53]
Spire.doc	Word document library	https://www.nuget.org/packages/Spire.Doc	Commercial[54]
PdfPig	PDF document library	https://github.com/UglyToad/PdfPig	Apache License 2.0[55]

49 https://github.com/parallax/jsPDF/blob/master/LICENSE
50 https://github.com/superRaytin/paginationjs/blob/master/LICENSE
51 https://gist.github.com/weppos/426727
52 https://github.com/hpneo/gmaps#license
53 https://www.nuget.org/packages/EPPlus/4.5.3.3/license
54 https://www.nuget.org/packages/Spire.Doc/11.3.1/License
55 https://github.com/UglyToad/PdfPig/blob/master/LICENSE