### inspirage

ORACLE

Platinum Partner

# **INTEGRATING AND EXTENDING WITH THE CLOUD**

lo

MA MB

32

45

35

40

30

016/02

Mark Ollerenshaw

## AGENDA





## Key Takeaways

#### Cost is the #1 Driver to cloud computing, but Availability & Scalability are close behind

- "We need to identify both cloud and on premise solutions, and look at what is most cost effective."
- "It was an easy decision for us to get on the cloud, because we didn't have a data center and we didn't want to build one."

#### Security & Integration are the top challenges for cloud computing.

- "Security challenges are our #1 stumbling block right now."
- "Security is very important, but it hasn't been difficult to implement at the level that we need."

#### Integration is the biggest obstacles to supply chain goals

- "Integration is becoming more and more important, as you are splitting between premise and in the cloud."
- "We don't want to pay for custom integration."

#### C #4 av

#1

#2

#3

Cloud computing use is expected to rise, but on premise applications are not going away. It will be a hybrid environment for a while.

"95% of our internal operations are on premise, but we're seeing what we should do in the cloud."

#### MARKET RESEARCH STUDY



PUBLISHED BY INSPIRAGE BUSINESS CONSULTING SERVICES



Now in its fourth generation, iHub Cloud Service (CS) is an application integration platform comprised of pre-built integrations, allowing rapid application integration deployments.



# Cloud

iHub (SCM) 2011 2014 2015

4 © Copyright 2007-2016 Inspirage. All rights reserved.

## KEY FEATURES

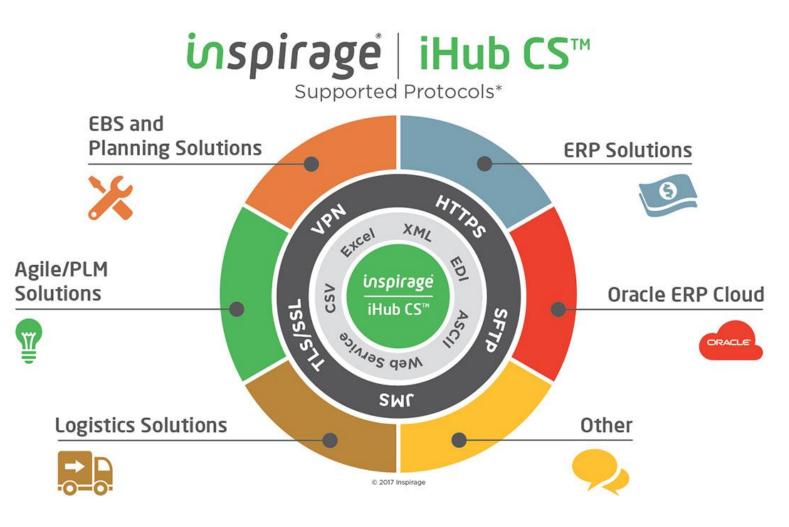
**Intuitive Dashboard** 

**Data Mapping Tool** 

Pre-integration placeholders

**laaS-level security** 

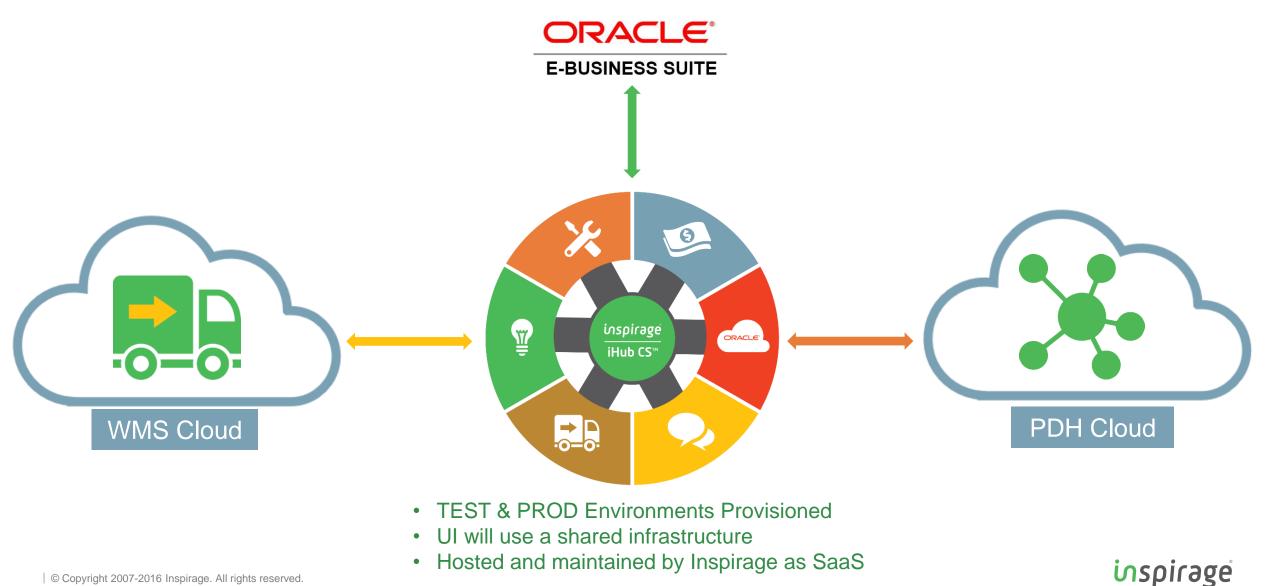




inspirage

5 © Copyright 2007-2016 Inspirage. All rights reserved.

## **DEPLOYMENT ARCHITECTURE (SAMPLE)**





Secure, multi-tenant public-facing environment

Private, single-tenant environment

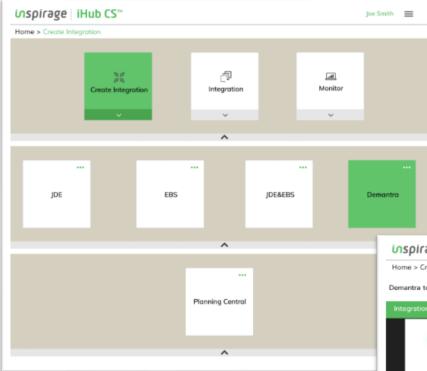
© Copyright 2007-2016 Inspirage. All rights reserved.

### inspirage | iHub CS™

Joe Smith 📃

Home > Monitor

	Status: Paused	<b>•</b> II										C @ 0
	Project	Start Date										
С	r Pending					□ \$ <b>   \$  </b>	Processing					Ċ 🗆
	Originating Record ~	Notes ~	Reference #	✓ Tr.#▲	Ver. V	Create Date	Originating Record	Notes	✓ Reference #	~ Tr.# . ~	Ver	Create Date
	ECO-01010 ECO-01044		ATO0008105 ATO0008106	35 36	2	2016-04-11 02:04:1 × 2016-04-11 02:16:2						
	200-01044		A100000100	30	-	2010/04/11/02/10/2			No re	cords availat	le.	
Instance Datalla		1										
Instance Details												
	Error				CEØ		Hold					□ 3 0 C 🖹 Ø
Instance	Originating Record V	Notes ~	Reference #	~ Tr. # ~	Ver. ~	Create Date	Originating Record	Y Notes	✓ Reference #	✓ Tr. # ▲	Ver.	- Hold Tr. #
Instance	MCO-010007		ATO0008099	29	1	2016-04-11 01:15:4 🔺	SCO-01005		ATO0008102	32	1	
	ECO-01008		ATO0008101	31	1	2016-04-11 01:29:0	ECO-01029		ATO0008104	34	1	
	ECO-01009 ECO-01046		ATO0008091 ATO0008110	21 40	2	2016-04-10 21:28:2 2016-04-11 03:01:2	SCO-01006 SCO-01007		ATO0008107 ATO0008108	37	1	
EBS and JDE to Cloud PDH	ECO-01046 ECO-01032		ATO0008111	40	1	2016-04-11 03:01:2	ECO-01007		ATO0008108	38 39	1	
	ECO-01049		ATO0008112	41	1	2016-04-11 03:04:4 -	200-01047		A100006109	-55		ь I.
	200 01013	4				+		4				+
	Completed					0010	Canceled					S ≝ C □
Demantra to Cloud Planning												1
	Originating Record V	Notes ~		✓ Tr. #		Crosse Date		Notes	Y Reference #	✓ IL#▼	Ver.	Create Date
	ECO-01025 qty_2016-04-11_06-04-		ATO0008098 Oty Update	28 95	2	2016-04-10 23:07:2 × 2016-04-11 06:05:0	qty_2016-04-11_06-04- 40_52.txt		Qty Update	98	6	2016-04-11 06:05:0
EBS and JDE to Cloud PDH	40_49.txt qty_2016-04-11_06-04-						qty_2016-04-11_06-04- 40_47.txt		Qty Update	93	2	2016-04-11 06:05:0
Ebs and JDE to Cloud PDH	40_48.txt		Qty Update	94	2	2016-04-11 06:05:0	ECO-01020		ATO0008097	27	1	2016-04-10 23:01:4
	qty_2016-04-11_06-04-		Oty Lindate	07	2	2016 04 11 06-05-0	ECO-01015		ATO0008093	23	1	2016-04-10 22:22:1
		4						4				•



1. Select the endpoints

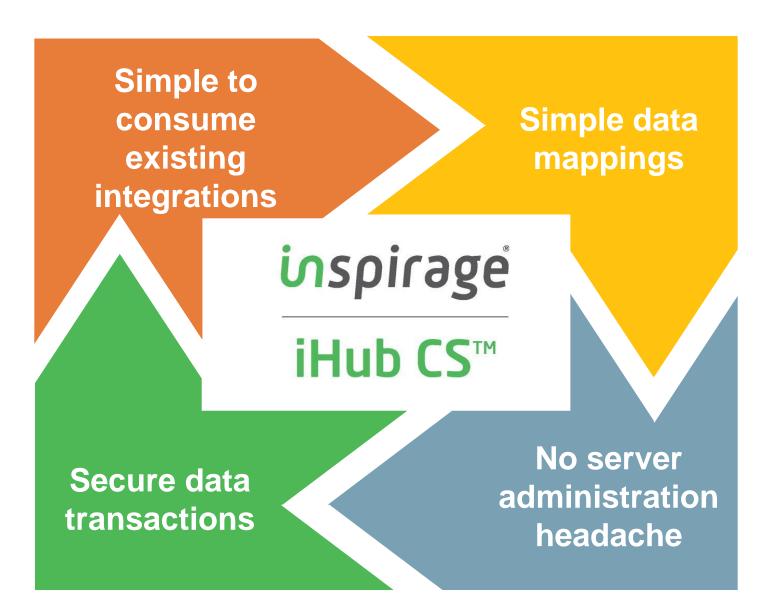
		S	Map Name : D Description : D Status : DM Forecast I
ntro			Organizati Priority Item
inspirage   iHub CS™		Joe Smith 🔳	demandel
Home > Create Integration > Instance			quantity
Demantra to Cloud Planning Demantra to Cloud	Planning -	< Back	forecast d
The purpose of this document is to de Cloud Planning Central. The service is The overview of integration and the se installable artefacts specific to your im please sign on to iHubCS -> Subscript	tup details are provided in this documentation. To download		
Demantra Information			2
Instance Name	IHUBCS		J
Version	1225		
Install Location	D:\ihubcs\		
DB Connection String	inspihubcsvcp.aws.inspirage.com:1521/IHUBCS		
Schema	cld1225		

#### 2. Configure the endpoint connections

spirage   iHub CS™		Joe Smith
me > Create Integration > Instance		
Name : Demantra to Cloud Planning		
cription : Demantra DM Rel 7.x+ On Prer	mise with Cloud Planning R11+	
tus : Work in Progress 👻		
M Forecast Data.csv 👻	ExternalForecastImportTemplat	e.csv 👻
Organization	+ Add Here to Map	SR_INSTANCE_CODE
Priority	Organization	ORGANIZATION_CODE
Item	Priority	FORECAST_PRIORITY
demandclass	ltem	ITEM_NAME
interval	+ Add Here to Map	DEMAND_CLASS
quantity	+ Add Here to Map	BUCKET_TYPE
forecast date	+ Add Here to Map	FORECAST_SET_NAME
Add New demand	class	DEMAND_SCHEDULE_NAME
interval	lap .	FORECAST_DESIGNATOR
	+ Add Here to Map	BILL_TO_SITE_CODE
	+ Add Here to Map	USING_REQUIREMENT_QUANTITY
	+ Add Here to Map	USING_ASSEMBLY_ITEM_NAME
	+ Add Here to Map	USING_ASSEMBLY_DEMAND_DATE
	+ Add Here to Map	CUSTOMER_NAME
	+ Add Here to Map	CUSTOMER_SITE_CODE

3. Add additional field mappings

- Faster
   Implementations
- Reduced Risks
- Lower costs
- Extensible solution



### PRODUCT MANAGEMENT PLM Cloud to MDM via GDSN XML

### SOLUTION

Integrations Deployed PDH to MDM

#### Location Deployed Europe

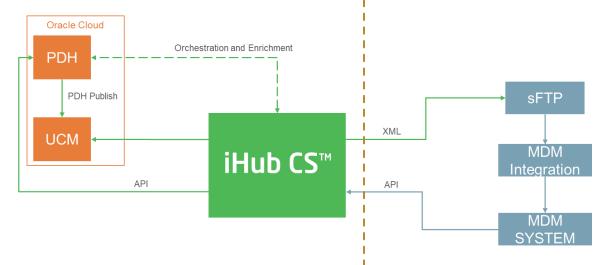
**Future Phases** 

Update to new API standard

### Solution

Integration leveraging iHUBCS which pushes product data from Cloud PDH to an on-prem MDM system.

Entry to a lifecycle phase triggers a publish of data and a resultant orchestration to build an XML based on GDSN structures with region specific variables.



About: European Grocery and CPG Industry: Grocery / CPG

### RESULTS

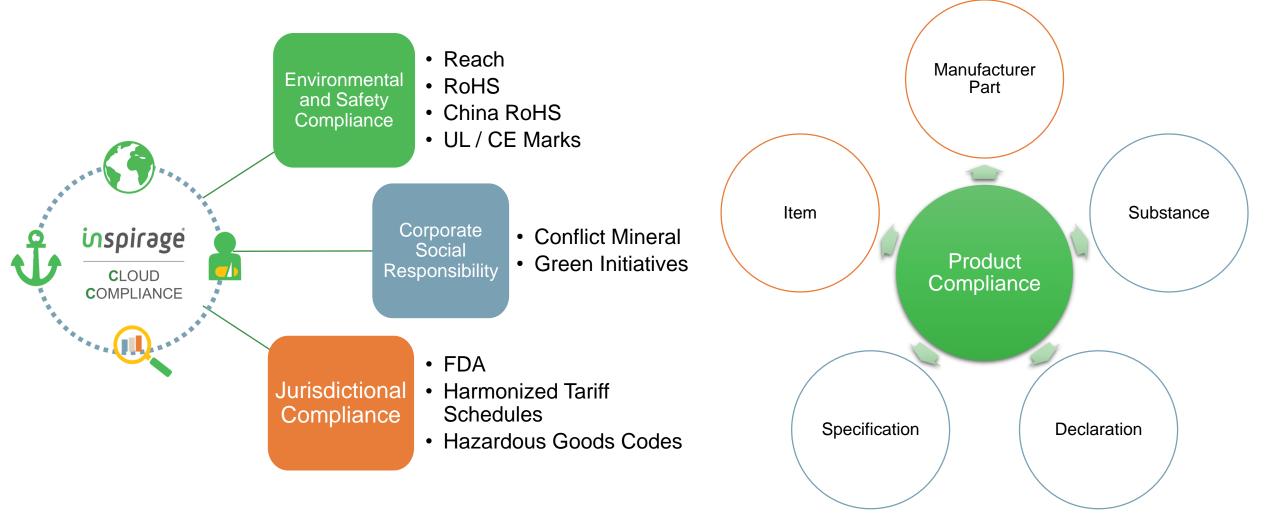
- Product Pack and Bill of Material Structure.
- Automated release for launch, supply chain, webstore.
- Returned integration for GTIN
- Automated update on schedule.
- Supported along with Application Support Agreement creating black-box for client



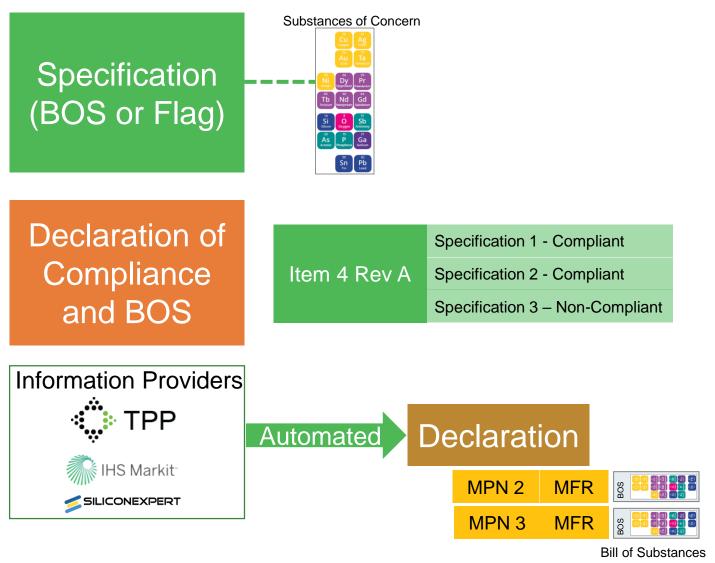
PRODUCT COMPLIANCE

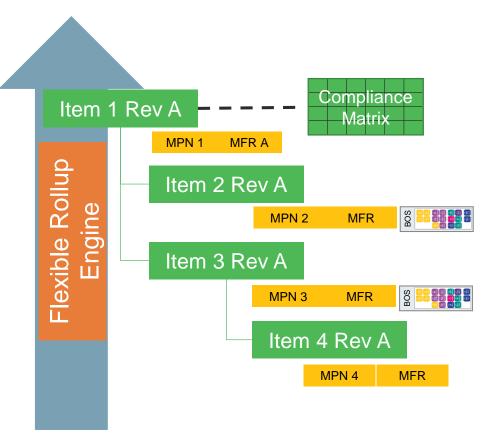
I want to sell My Product to Someone located Somewhere without getting Fined, Sued, or otherwise Shutdown, while maximizing Profit.

### CLOUD COMPLIANCE ADDRESSES COMPLETE PRODUCT COMPLIANCE



# **Compliance Overview**





Part 123 Rev A							
Specification	Structure	Compliance Status	Jurisdictions	Reference	Analysis Method	Exemptions	Declaration
RoHS 6	Primary	Compliant	Europe	<hyperlink></hyperlink>	Rollup Best Case	N/A	n/a - rollup
RoHS 10	Primary	Compliant	Europe		Rollup Worst Case	N/A	n/a - rollup
China RoHS	Primary	Non-Compliant	China	Tic Tac Toe Report	Declared	N/A	DECL-0001
China RoHS	Secondary	Compliant	China	Tic Tac Toe Report	Declared	N/A	DECL-0001
CE Mark	Primary	Yes	EU		Declared	N/A	DECL-0002
UL	Primary	Yes	North America		Declared	N/A	DECL-0003
REACH 177	Primary	Exempt	Europe		Rollup Worst Case	N/A	n/a - rollup
REACH 178	Primary	Compliant	Europe		Rollup Worst Case	N/A	n/a - rollup
REACH 179	Primary	Compliant	Europe	Over Threshold Report	Rollup Worst Case	N/A	n/a - rollup
CA Prop 65	Primary	Compliant	CA Only		Declared	N/A	DECL-0001
Battery Directive	Primary	Yes	All		Rollup Best Case	N/A	n/a - rollup
Conflict Minerals	Primary	No	United States		Rollup Worst Case	N/A	n/a - rollup

Compli

Mat

## **CLOUD COMPLIANCE - SPECIFICATION**

Cloud (	Compliance			powered by inspirage									
Home	Specification												
Setups	🔚 Save 🛛 🍋 Cancel												
Specification	Cover Page												
Search	* Name ROHS Dec 15		Dat	te Created 12/15/2017									
Create	Description Test ROHS created	Dec 15	Comp	bliance List CompliantNoncompliantExemp									
	Jurisdiction EU;UK;US			Type FlagBased									
Declaration Search	Status Draft	\$	Rollu	ip Enabled 🔶									
Create	Notes		Expira	ation Date									
			Flag for MPN pr	ropagation 🗌									
Items		1											
	Rollup Engine Settings												
		at Case A											
	Rollup Logic Priority Setting, Worst Case 💠												
	Rollup Priority         First Priority       Part \$         Second Priority       AML \$         Third Priority       BOM \$												
		Second Priority											
	Exemptions												
	Create Delete												
	Exemption Name	Expiration Date	Status	Notes									
	My Test Exemption \$	2020-10-31											
	Classes												
	Create												
	Class Name No data to display.	Status	Туре	Notes									
	no data to display.												
	Attachments												
	Please upload Attachment: Choo	se File no file selected	Upload	Delete Attachment									
	Attachment Name	Туре	File Download										
	No data to display.												
	·												

## **CLOUD COMPLIANCE - DECLARATION**

Declaration Name RC								
		Description						
Status (	<b>+</b> ]	Released Date	1					
Compliance Manager		Followup Date						
Created Date Notes	20	Specification EU F	RoHS;China RoHS 📃 💌					
	<i>h</i>							
Add Item(s) Please	upload Excel file: Choos	se File No file chosen						
Number	Revision	Class	Description					
Z800-02	C	BR_Physical	"ZAP Tablet"		12	×		
12-0014-00	0	BR_Physical	"CAP, TANTALUM, SMD, A-	SIZE, 4.7UF, 6.3V, 20%"	12			
	0	Diadaa						
12-0018-00	0	Diodes	"DIODE, SWITCHING, SO	Г-23, BAS16"	/ 2	×		
03-0320-02	C	Diodes BR_Physical	"DIODE, SWITCHING, SO "PCB ASSY, MAIN BOARD,					
33-0320-02  Item Specifications  Specification  EU RoHS	C s: 12-0014-00 Compliant Exempt	BR_Physical	"PCB ASSY, MAIN BOARD, ItemStructure Primary	ZAP 800, PHASE II"  Exemptions Lead7CIII				
33-0320-02  Item Specifications  Specification	C s: 12-0014-00 Complian	BR_Physical	"PCB ASSY, MAIN BOARD, ItemStructure	ZAP 800, PHASE II" Exemptions		×		
33-0320-02  Item Specifications  Specification  EU RoHS China RoHS  Attachments	C s: 12-0014-00 Complian Exempt Yes	BR_Physical acce Status Reference t	"PCB ASSY, MAIN BOARD, ItemStructure Primary	ZAP 800, PHASE II"  Exemptions Lead7CIII		×		
Item Specifications Specification EU RoHS China RoHS Attachments Attachment: Choose F	C s: 12-0014-00 Complian Exempt Yes File No file chosen	BR_Physical	"PCB ASSY, MAIN BOARD, ItemStructure Primary	ZAP 800, PHASE II"  Exemptions Lead7CIII		×		
33-0320-02  Item Specifications  Specification  EU RoHS China RoHS  Attachments  Attachment: Choose F  AttachmentName Atta	C s: 12-0014-00 Complian Exempt Yes	BR_Physical acce Status Reference t	"PCB ASSY, MAIN BOARD, ItemStructure Primary	ZAP 800, PHASE II"  Exemptions Lead7CIII		×		
Item Specifications Specification EU RoHS China RoHS Attachments Attachment: Choose F	C s: 12-0014-00 Complian Exempt Yes File No file chosen	BR_Physical acce Status Reference t	"PCB ASSY, MAIN BOARD, ItemStructure Primary	ZAP 800, PHASE II"  Exemptions Lead7CIII		×		
33-0320-02  Item Specifications  Specification  EU RoHS China RoHS  Attachments  Attachment: Choose F  AttachmentName Atta	C s: 12-0014-00 Complian Exempt Yes File No file chosen	BR_Physical acce Status Reference t	"PCB ASSY, MAIN BOARD, ItemStructure Primary	ZAP 800, PHASE II"  Exemptions Lead7CIII		×		

## CLOUD COMPLIANCE – ITEM VIEW

Cloud	Compliance					powered by	nspirage				
	Items										
Home Setups Specification	Item Compliance View								Advanced	Saved Search (ItemComplia	iance 🛊
Search Create	Item Number Z800-02	9									
Declaration Search Create Items	Z800-02 - "ZAP Change Revision	Tablet" (	(C)							Search Reset	Save
	Current Compliance Matrix										
	Specification	Structure	Compliance Status	Jurisdiction	Reference	Analysis Method	Exemptions	Declarations			
	China RoHS	Primary	Yes	India	NA	NA	Electric	ROHS Declaration	on		
	Test106	Primary	Compliant	Canada	NA	NA	Electric	Other Declaration	on for ZAP		
	TestSpec	Primary	No	Canada	NA	NA	Electric	Other Declaration			
	EU RoHS	Primary	Non-Compliant		NA	NA	Lead7CIII	ROHS Declaration			
	SPEC001	Primary	Non-Compliant	US	NA	NA	Electric	Other Declaration	on for ZAP		
	Manage Declarations										
	Declaration	Descri	intion			Status	Follow Up Date	Specifications			
	Other Declaration for ZAP	Jesen					, cherr op bute	SPEC001,Test106,Tes			
	ROHS Declaration							China RoHS,EU RoHS			
	Reporting										

## DESIGN FOR COMPLIANCE

Compliance Statuses are directly visible in Cloud PLM

		PD	]		PDH	
Item: LED10001 ×			₩ <sub>⊂</sub> Social Revision A*	Overview Item: LED10001 (USITM1) x		
				Edit Item: LED10001 (USITM1)		To Social 🚱 Actions 🔻 Save 🔻 Can
Details	€) Structure	€) Changes	€ AML		Item LED10001	Item Status Active -
General Informati	on	Q 0 0 0 0 0 0		55 H 7	Demo LED Board * Description	Lifecycle Phase Prototype
	Name LED10001	Created By Fshane.goodwin@inspirage.com		< PCB/ >	Item Class LED Board	User Item Type Finished Good Pack Type Base Unit or Each
	Description Demo LED Boa	rd Creation Date 8/18/17		PCBA Board 🕂 💥	Approval Status Approved	Revision A
	Revision A	// Effectivity Date 8/18/17				
PCBA BO	Class LED Board	Product Lines 📲		Overview Specifications Item People Structures Attachments	Associations Relationships Categories	
	Lifecycle Phase Prototype			✓ Item Item: Named Compliance		
	Primary Unit of Measure EA			Transactional Attributes Additional Attributes PLM Demo Page	S	
Board Control Pl     Control Plan Attributes	lan			Named Compliance Pack Request From Supplier Multi Row Compliance Data	🕂 🗶 🎘 📴 Freeze 🔛 Detach 📣 Wrap	
	G1_Voltage_Min 5.22		G1_Voltage_Max 5.75	✓ Item Revision		
	G1_Voltage_Min UOM Volt		G1_Voltage_Max UOM Volt	Additional Attributes * Specification	Compliance Status Jurisdiction	Exemptions
PLMDateDemon Cloud Compliance				Item Organization  Manufacturing  Test	Test 1	Test
Actions - May -	Format 🔻 🕂 🗶 🎵 📴 Freeze 🔛 Detach 🥥	Was		Service Inventory		
		wrap		Physical Attributes Sales and Order Management Planning Named Compliance Data		
* Specification	Compliance Status Jurisdic	tion Exemptions		Purchasing		
Test	Test 1	Test			ROHS Compliance Compliant	
						۵ م

uspirage

## **BOM REPORT**

			Mai	nufacturer	BOM F	Repo	ort						
Description:	Z800-02 ZAP Tab D BRUSA												
Level/Path				Component Item	5			Co	mpliance	ance			
Path	Lev el	ltem Seq	Item Number	Item Description	Sub Class	Revisio n	Jurisdicti on	Spec	Status	Exemption			
/03-0320-02	1	1	03-0320-02	PCB ASSY, MAIN BOARD, ZAP 800, PHASE II	BR_Physical	С	EU, Finland	RoHs	Compliant				
							US	Conflict mineral	Exempt	B7			
							China	China RoHs	Non Compliant				
/P00112	1	11	P00112	TABLET CASING ASSEMBLY	BR_Physical	0	US	RoHs	Compliant				
/03-0320-02/12-0252-00	2	1	12-0252-00	CAP, CERAMIC, SMD, 0603, 0.33UF,Y5V,10V, - 20/+80%	BR_Physical	A							
/P00112/P00168	2	10	P00168	BACK CASE	BR_Physical	0	US	RoHs	Compliant				
/03-0320-02/12-0014-00	2	11	12-0014-00	CAP, TANTALUM, SMD, A-SIZE, 4.7UF, 6.3V, 20%	BR_Physical	0	US	RoHs	Exempt	Exempt			
/P00112/P00174	2	20	P00174	FRONT CASE	BR_Physical	0	US	RoHs	Compliant				

#### **Cloud Compliance Architecture Compliance Cloud** (JCS,DBCS) Cloud Product Hub Setup (Status, Jurisdiction . Declaration Update Item Compliance list, Yes **Item Service** Items Released Attribute rollup, exemptions **Specification** OTBI Report Pull item for Compliance Attribute group Java Code Declaration Information CC Data Provider Web Store Services

#### © Copyright 2007-2016 Inspirage. All rights reserved.

# INSPIRAGE CLOUD COMPLIANCE

- Address General Compliance needs as well as Environmental Compliance
- Integrate with Content Providers, and enable GTM
- Answer compliance questions and audits
- Item Compliance Matrix published to PD / PDH Item
- Define Specifications with Behavior Options
- Provide Declaration Process with Approvals
- Rollup Engine with flexibility to address common needs
- Full Bill of Substance (BOS)





The Integrated Supply Chain Specialists

**Mark Ollerenshaw** 

mark.Ollerenshaw@inspirage.com +44 7531 829 136

