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Fujitsu AIS Training Seminar

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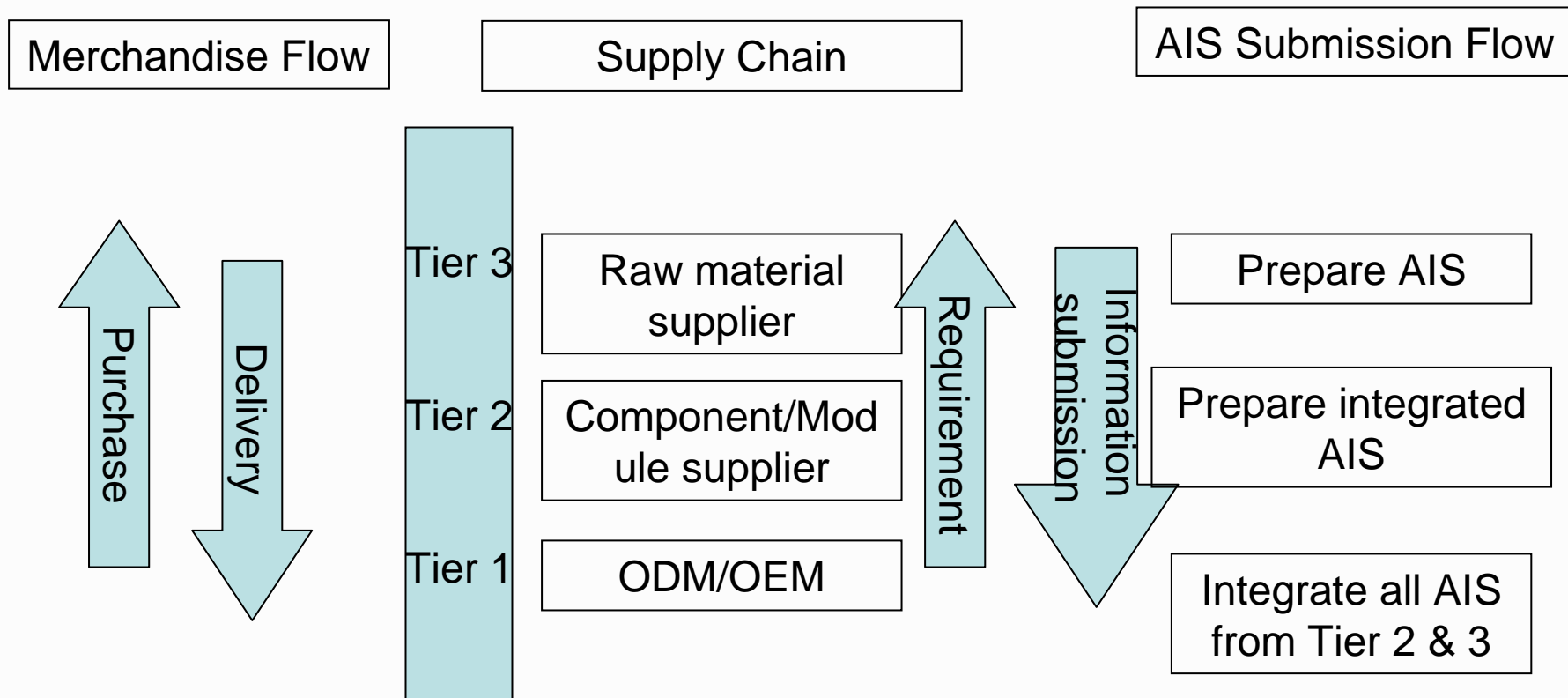Engineering Research & Development Center
MiTAC

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Objective

- Fujitsu (FJ) adopt JAMP's (**J**oint **A**rticle **M**anagement **P**romotion-Consortium) AIS (**A**rticle **I**nformation **S**heet) as a GP survey mechanism and tools for communicating information of chemical substances from upstream to downstream companies. Downstream company has a responsibility to integrate AIS from upstream to midstream companies.

- To behalf of a downstream company, MiTAC have to assist customer to collect all AIS information from supply chain. Hence, With holding on AIS training seminar and conducting suppliers how to make AIS, they can easy to make a good quality documentation so that MiTAC can meet with FJ's requirements.

Outline of AIS Communication

- Principle of AIS communication in supply chain: Raw material suppliers (upstream, Tier 3)→Module suppliers (midstream, Tier 2)→ODM/OEM (downstream, Tier 1) 。

  - Upstream suppliers shall honestly reveal these chemical substances which are added in substances and preparations and fill in MSDSplus, then submit to midstream suppliers. (MSDS shall also required)

  - Depended on MSDSplus and MSDS provided by upstream suppliers, midstream suppliers shall make up AIS, then submit to a downstream supplier.

  - ODM/OEM collect AIS/MSDS from upstream & midstream suppliers, and integrate them.

  - FJ request all supply chain to provide AIS or integrated AIS.

Flowchart: How Supply Chain to submit AIS

| Merchandise Flow | Supply Chain | | AIS Submission Flow |

Merchandise Flow: Purchase ↑ / Delivery ↓

Supply Chain:
- Tier 3 — Raw material supplier
- Tier 2 — Component/Module supplier
- Tier 1 — ODM/OEM

Requirement ↑ / Information submission ↓

AIS Submission Flow:
- Prepare AIS
- Prepare integrated AIS
- Integrate all AIS from Tier 2 & 3

Tier 1: ODM/OEM ex. MiTAC
Tier 2: Module Supplier ex. PCBA manufacturer
Tier 3: Raw material supplier ex. Samsung (plastic manufacturer: ABS, PE, PC…etc)

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Management of Updated AIS Information

- Once the AIS is updated, please inform MiTAC sourcers, and submit the updated AIS to CE. Example:
  - Content of substance or material information   is wrong or updated
  - Upstream supplier changed the AIS information
  - New banned/restricted/reportable substance is required in AIS (ex. SVHC)
  - Material, shape, processing, or Method is changed

How to Denominate AIS File

- AISA_Issued Date_MiTAC P/N_Vender Name_Vender P/N.xml
- AISA - AIS for single part
- AISB – AIS for integrated parts
- Issued Date: ex. 20121010
- MiTAC P/N: ex. 284500000336
- Vender Name: ex. TI
- Vender P/N: ex. PCA9306DCTR
- If venders adopt the application of "the same series of components", venders can submit one AIS to represent the same series of components. (Appendix 1)

References for AIS (1)

- JAMP AIS
  - JAMP website: http://www.jamp-info.com/english/ais
  - Materials: AIS_Ver-4_00-external-list-120625_E_2-2.zip /Substance List Ver. 3.010
- Fujitsu's website: http://procurement.fujitsu.com/jp/chemical_substance_e.html
  - Materials:"Manuals" for making AIS
  - "Check tool" for your AIS (Access key: V1L00)
- Suppliers can download these information from above hyperlinks and unzip files by yourselves.

References for AIS (2)

MiTAC's suppliers can download related AIS materials and information from this website: http://escm.mic.com.tw/escm7

Case Study

- Refer to Fujitsu case study
  - Exercise: How to make AIS
- References
  - Fujitsu：Manual for making AIS (Ver.4.0) [v1.01]
  - JAMP：JAMP AIS Input Support Tool Ver.4.0. Operation Manual; JAMP AIS Preparation Procedure
- Tools
  - JAMP AIS Tool (AIS_input_support_V40.xls)
  - JAMP External List (JAMP_MSDSplus_AIS_EXLIST_120625)
  - Fujitsu AIS Check Tool (fjaeptv201_c.xls)

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Exercise:

How to make AIS

Making AIS of PCBA (Example)
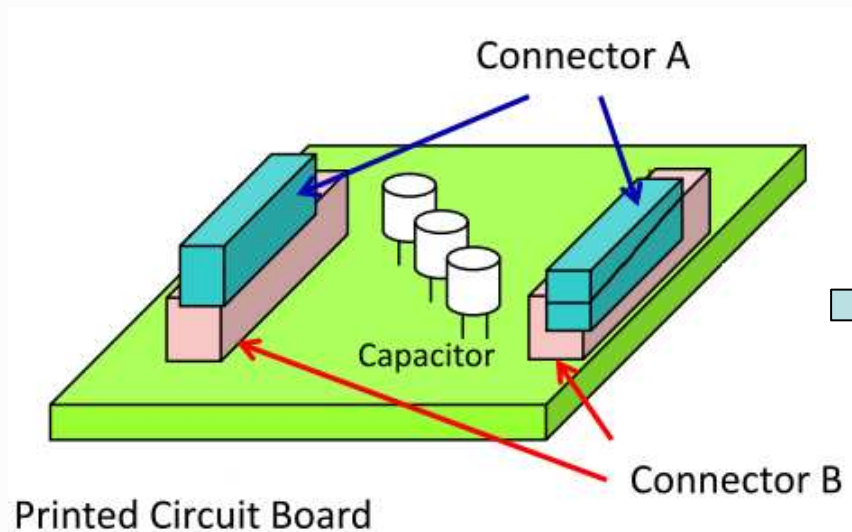
Making AIS of PCBA (Example)

Integrated AIS
Exercise 2
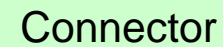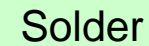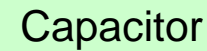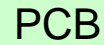
Component AIS
Exercise 1

Exercise 1 : Fulfill AIS of Connector

Sheet 1: General Information

1. AIS information

➤ Fill in the issue date and revise date if needed

2. Issuing company Info.

➤ Fill in the company name, issue section, address, and phone number

3. Article Information

➤ Fill in the manufacturer name, part name, and model number.

4. Composition Info.

➤ Fill in the article mass, unit of mass

1. AIS Information

List		Format Version	Ver.4.0
		Material List	2.00
		Substance List	3.000
		GP(Global Portal) Sheet ID	9999999999999999
		Sheet Reference Number	
Original		Issued Date *	2009-07-01
Revision		Latest Issued Date	2010-04-22
		Revision History *	3

2. Issuing company Information

Import Template

Company Name	Alphanumeric *	JAMP Inc.
	Mother Language	
Company ID	ID Organizer	
	Entity ID	
Issuing Department	Department Name *	Environment Unit
	Address *	Showa 1-1, Heisei, Tokyo, Japan
	Telephone Number *	81-3-0003-0003
	FAX Number	
	Email Address	
Department in Charge of Preparing AIS	Department Name	
	Telephone Number	
	Remarks	

3. Article Information

	Manufacturer Name *	JAMP Inc
	Common Product Name *	connectorA
Issuing Company Item Number	Alphanumeric *	connectorA6789
	Mother Language	
Multiple Product Name/Product Series Name		
Remarks		

4. Composition Information

Article	Unit type *	piece
	Mass *	10.8
	Unit of Mass *	g
Declaration Concerning Composition Information *		1.This article is confirmed to contain declarable substances within the scope of Concerned Regulation or Other Documents Indicated by JAMP.
Total Amounts of Material	Calculation	
GADSL		1.covers GADSL scope
JIG		1.covers JIG scope

Exercise 1 : Fulfill AIS of Connector (component level)

Sheet 2: Composition list

Structure of Connector

Components	Quantity
Terminal	15
Shell	1
Insulated terminal	1
Junction shell	1
Screw	2

Check out the material data

Component	Material	FJ concerned Substance
Shell	Steels/cast steel	Lead
	Nickel plating	Nickel

4. Composition Information

All Clear | Calculation
Delete selected row | Update Substance Info | Error Check | Temporally SAVE | Export XML

Level		Component		Material					Substance				
Add		Add		Select	Add				Select	Add			
Name	Quantity	Name *	Quantity *	Use *	Classification Number *	Name	Mass *	Unit *	CAS Number	Substance Name	Concentration	Mass	Unit
		Shell	1.0	base material	R101	Steels/cast steel/sintered steel	4.0	g	7439-92-1	Lead	0.3%	0.012	g
				plating	S002	Nickel plating	0.3	g	7440-02-0	Nickel	100.0%	0.3	g

General Information \ Composition List

➢ Fill in the content, based on the material data

Exercise 1 : Fulfill AIS of Connector (component level)
Sheet 2: Composition list

Step 1: Input Component Name & Quantity

Step 2:   Select "Material" as a usage from the menu

Exercise 1 : Fulfill AIS of Connector (component level)

Sheet 2: Composition list

Step 3: Click the "SELECT " button to choice substance & exemption if the substance is required to declare

3-1: Input Name, CAS or Name, then click it
3-2: Click the "SELECT" button

Example: Fulfill AIS of Connector (component level)

Sheet 2: Composition list

Step 4: Select the exemption If it is a declared RoHS substance

Exercise 1 : Fulfill AIS of Connector (component level)

Sheet 2: Composition list

Step 5: Fill in Concentration (wt%).

Step 6: Click "Add" button and repeat step 3~5 to add other concerned substances accordingly.

Exercise 1 : Fulfill AIS of Connector (component level)

Sheet 2: Composition list

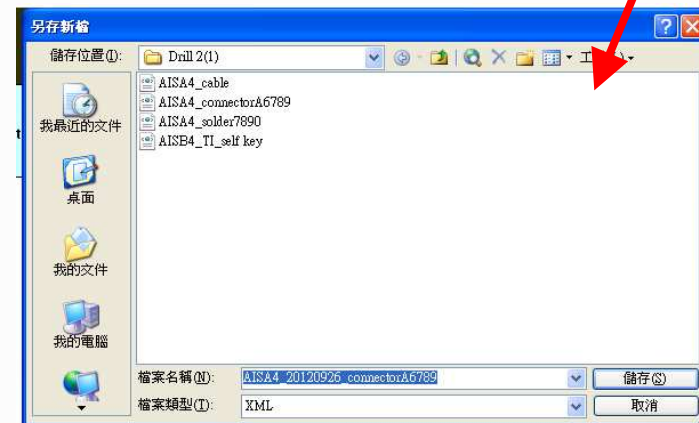Step 7: Click " Error Check" to check if any error message pop up

Step 8: If no error message pop up, Click " Export XML" to save it

Exercise 2 : Integrated AIS (part level)

Step 1: Click " Edit AIS"

JAMP AIS Input Support Tool Ver.4.0

This tool provides functions such as filling, editing, viewing, and integrating to support you AIS operation.

[Edit AIS] mode provides functions to create original AIS and edit AIS already exist.
[Integrate AIS] mode provides function to integrate an AIS from multiple AIS.
Click [Edit AIS] button to enter AIS Edit mode, or click [Integrate AIS] button to enter Integrate AIS mode.

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tail of each item, please see Tool operation manual and AIS manual.

Edit AIS   Integrate AIS

AIS Integration

Switch Display
- ○ Show 1. AIS Information
- ○ Show 2. Issuing company Information
- ○ Show 3. Article Information
- ○ Show 4. Composition Information
- ○ Show 5. Other Information
- ○ Show Requester Information
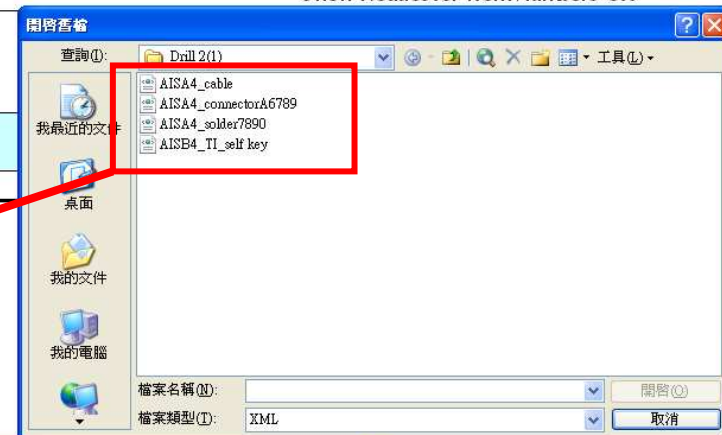- ○ Show Requester Item Numbers etc

2   Add   Delete   Integrate

開啓舊檔

查詢(I): Drill 2(1)

AISA4_cable
AISA4_connectorA6789
AISA4_solder7890
AISB4_TI_self key

我最近的文件

File Name

桌面

我的文件

檔案名稱(N):

我的電腦

檔案類型(T): XML

開啓(O)

取消

Step 2: Click " Add" to
select the **component AIS**

▶ ▶I \ Explanation \ Integration /

Exercise 2 : Integrated AIS (part level)

Step 3: Fill in the number of unit and click " Integrate" to get a integrated result

Result

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Appendix

Appendix 1: How to Prepare a Same Series List

Preparing principal

- Provide a same series list with Excel format, then submit it with AIS to MiTAC

- Example: Maker name (ABC) have 3 same series parts. These 3 parts are pulsed; then divided by 3. The average is 0.14g.

Example:

Maker Name	Maker PN	Part Weight
ABC	CC0402KRX5R6BB224	0.14 g
	CC0402KRX5R8BB104	0. 13 g
	CC0402KRX7R7BB104	0. 15 g
Average		0.14 g

Thaks !
Q&A

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