

JSM 產品資產管理

-Assets應用

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Moxa 四零四科技
Engineering Tool Platform
黃瑞欽 Andy Huang
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Moxa is a Leader in Industrial Automation
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Ethernet Switches



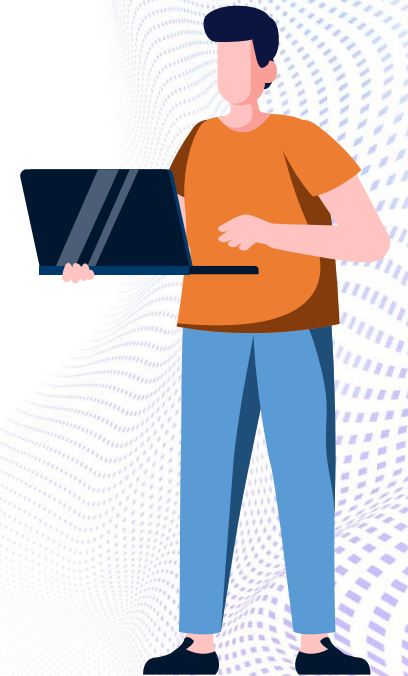
Secure Routers

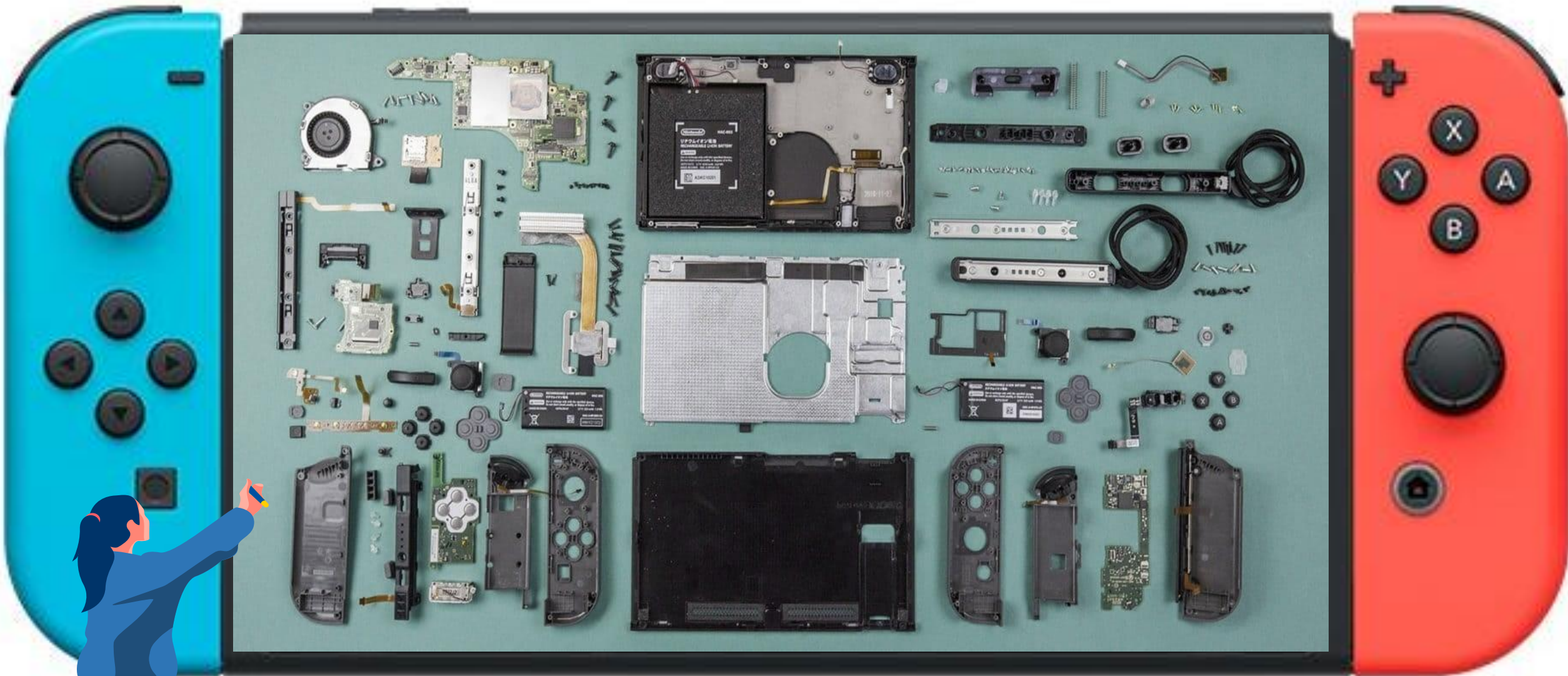


Protocol Gateways



How Many Component in Switch?

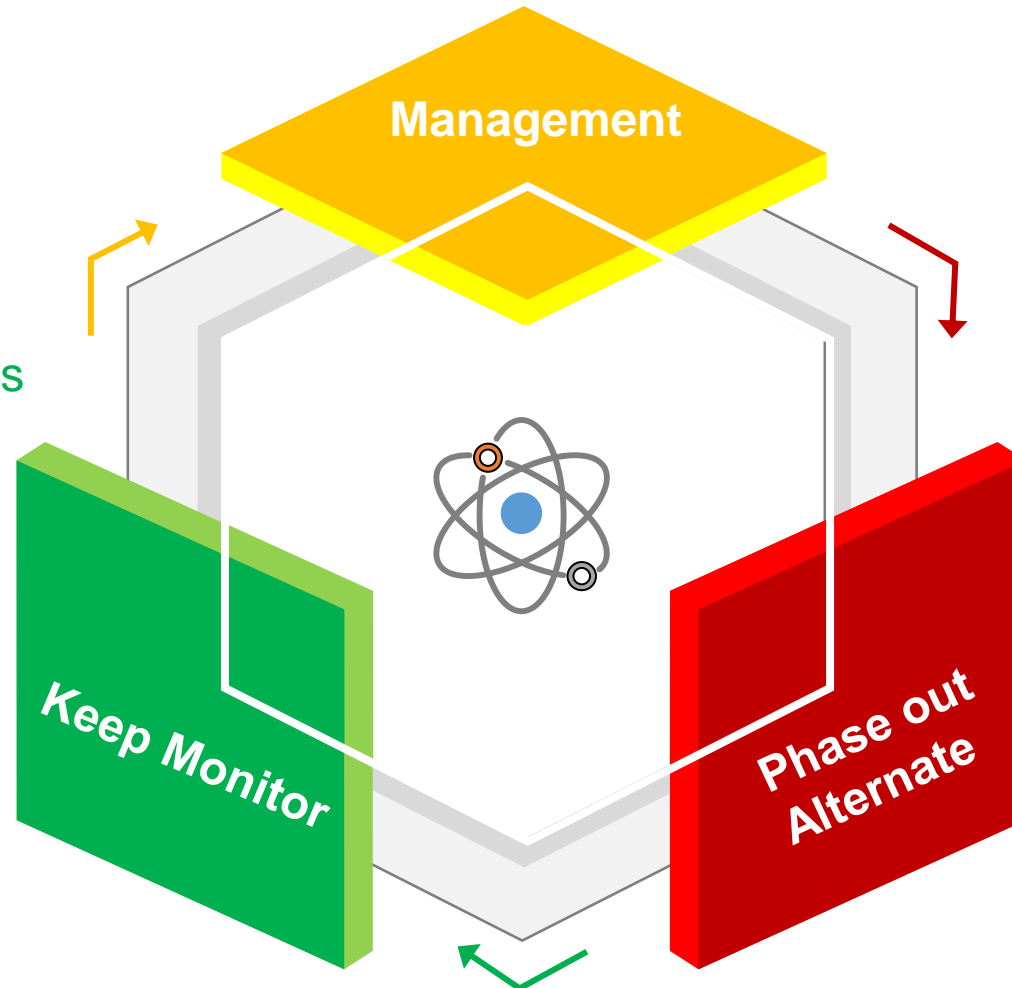




Component Risk Management

[Green Light]

- Supplier stable supply
- Inventory is good
- Have Alternative materials



[Yellow Light]

- Observe supplier status
- Purchase materials inventory
- Internal technical research

[Red Light]

- Risk of raw material out of stock
- Risk of abnormal quality
- Risk of rising costs

Covid 19 Impact and Challenge



Supply Chain Disruptions

-Disruption of supply of raw materials and finished products. Or the problem of delivery delay.

Supply Chain Visibility

-A comprehensive view of the supply chain without accurate tracking of inventory, deliveries and production.

Inventory Management

-Fluctuating demand complicates inventory management. Facing the challenge of inventory shortage.

Component Management Mechanism -Challenge



Product Lifecycle Management

- No friendly issue tracking mechanism



Manage Excel Manually

- No automated notifications
- Can't visualize data
- No Fool-proofing mechanism



Communication Complexity

- Unable to know processing status
- Difficult to standardize processes
- Data cannot be managed centrally

Business needs interview & Feasibility assessment



Jira Software and Assets Management



Data classification and structuring

-Classify and structure the data related to the material number, making it easy to manage and find.

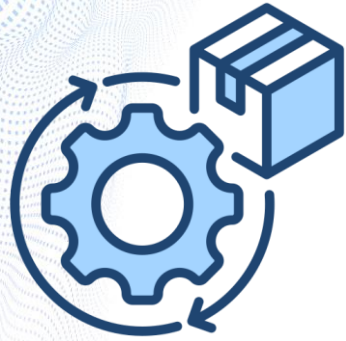
Visualize material number hierarchy

-Organize material numbers into hierarchies to better understand their relationships and attributes.

Task tracking mechanism

-Understand problems with material number management and take appropriate action in a timely manner.

Architecture and Data Flow (As-Is)



PLM System



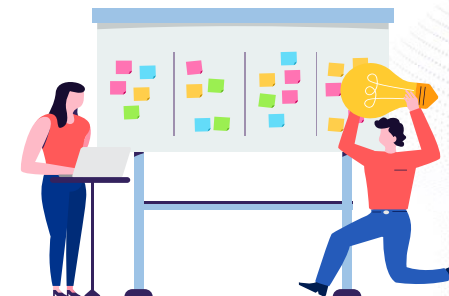
Data Export



Excel



Issue Tracking

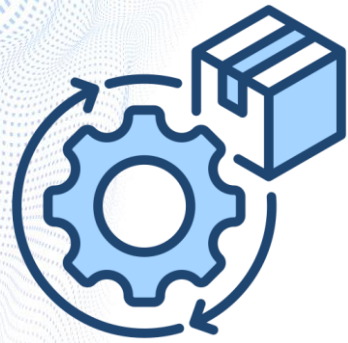


User(PM/RD/Sourcer...)

Material Status / Data update



Architecture and Data Flow (To-Be)



PLM System

Data Sync



Data Integration Stage

Data Sync

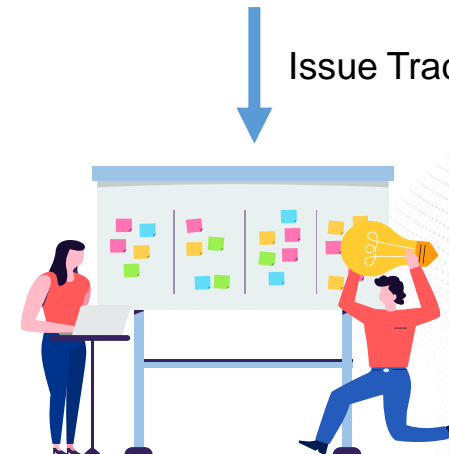


Jira Software



Jira Assets

Issue Tracking/Dashboard



User(PM/RD/Sourcer...)

Material Status / Data update

How to Utilize Asset Management Manage Components



Assets – Component Setting

Search object types

- Component (24)
- Material Number (10)
- LV10 (29)
- SBU (2)
- Model name (32)
- Model name version (34)
- Material Description (9)
- Product Owner (3)
- SBU action (4)
- model-2 (2)

Component
No description

Create Object Objects Attributes Graph Object Type

1. Sort out the necessary object information

```
graph TD; Component((Component)) --> MD[Material Description]; Component --> SBU[SBU]; Component --> PO[Product Owner]; Component --> MN[Material Number]; Component --> ModelName[Model name]; Component --> LV10[LV10]; Component --> ModelNameVersion[Model name version]; Component --> SBUAction[SBU action];
```

2. Create relationships between objects

3. Confirm the attribute of the object


Component
Object Count: 24

Attributes

Key:	Text
Name:	Text
Created:	DateTime
Updated:	DateTime
Material Number:	Material Number
LV10:	LV10
SBU:	SBU
Model name:	Model name
Model name version:	Model name version
Material Description:	Material Description
Product Owner:	Product Owner
SBU action:	SBU action
Hedge:	Boolean
action status:	Text

Assets – Component Detail

ACOM-5970
1101103310-3013015100

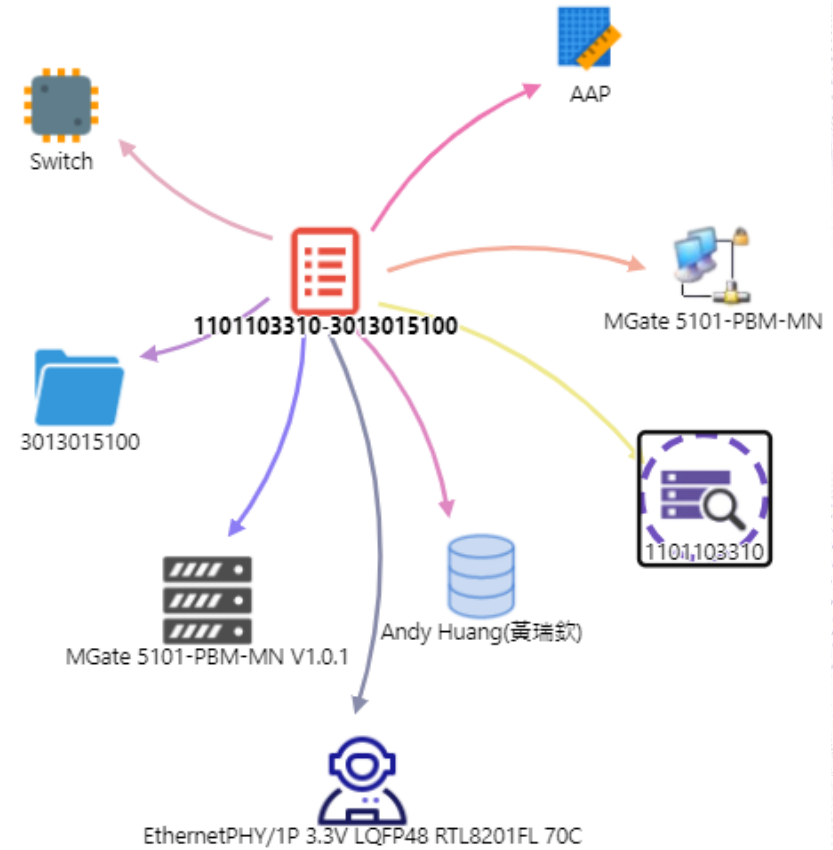


Attachment Comment

Attributes Connected tickets Comments History

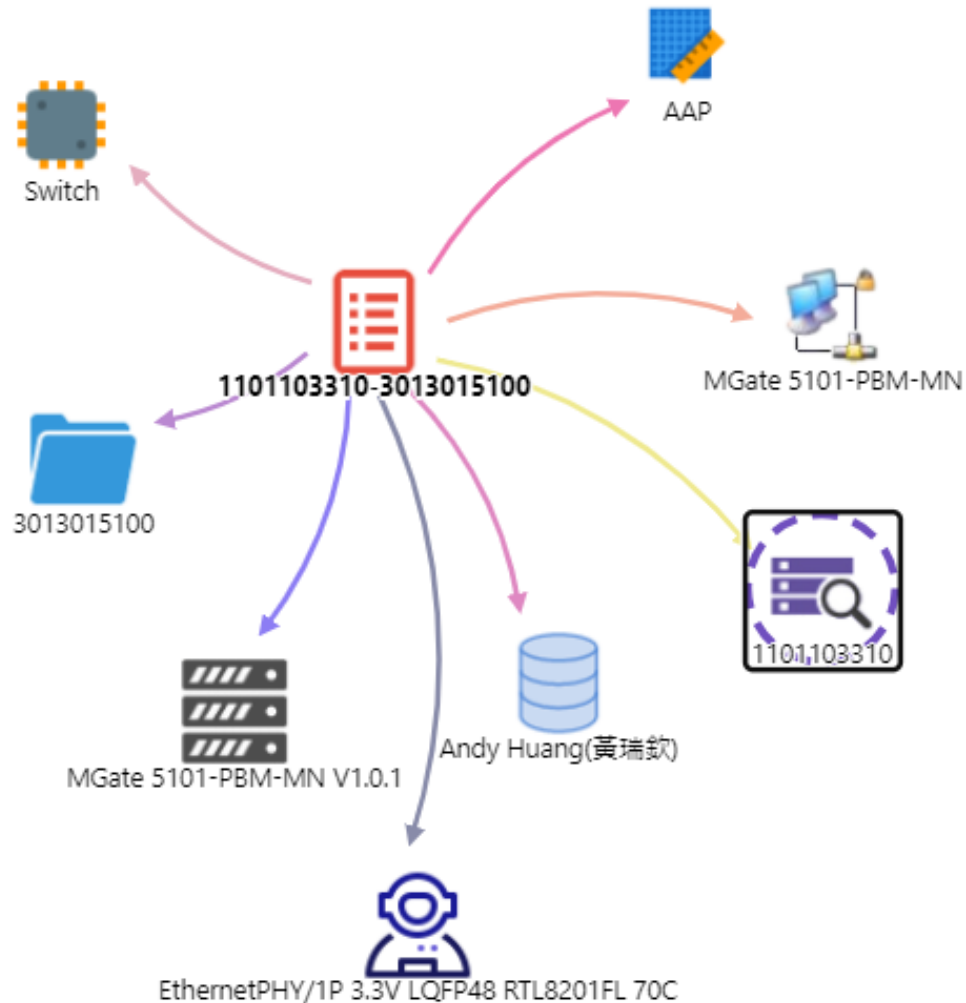
Key	ACOM-5970
Name	1101103310-3013015100
Created	2023/07/13 11:12 pm
Updated	2023/07/15 9:54 pm
Material Number	1101103310
LV10	3013015100
SBU	Switch
Model name	MGate 5101-PBM-MN
Model name version	MGate 5101-PBM-MN V1.0.1
Material Description	EthernetPHY/1P 3.3V LQFP48 RTL8201FL 70C
Product Owner	Andy Huang(黃瑞欽)
SBU action	AAP
Hedge	✓

Presentation of basic information



Object Graph

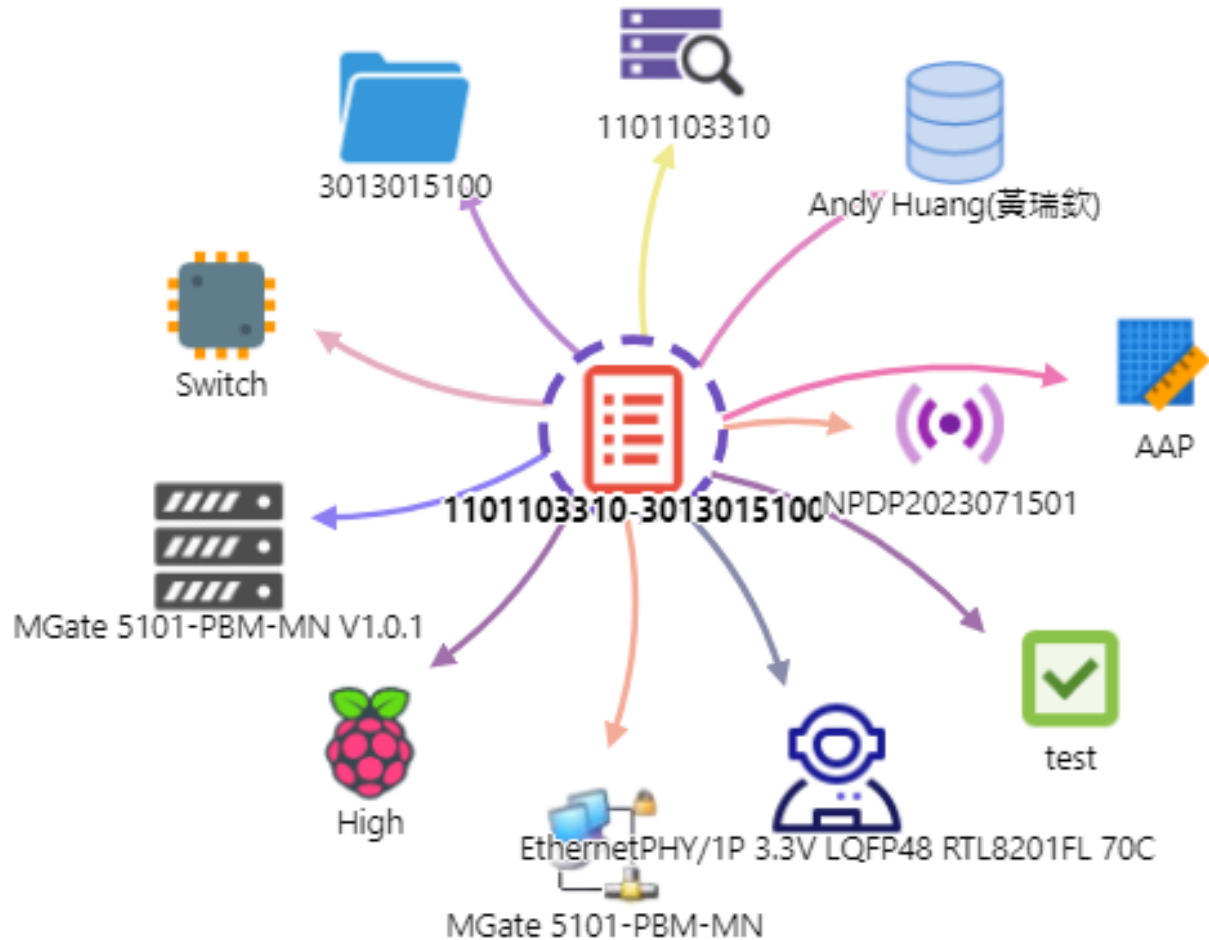
Assets – Comprehensive Overview



View Object Graph

1. Scalability
2. Browsing and Navigation
3. Representing complex relationships

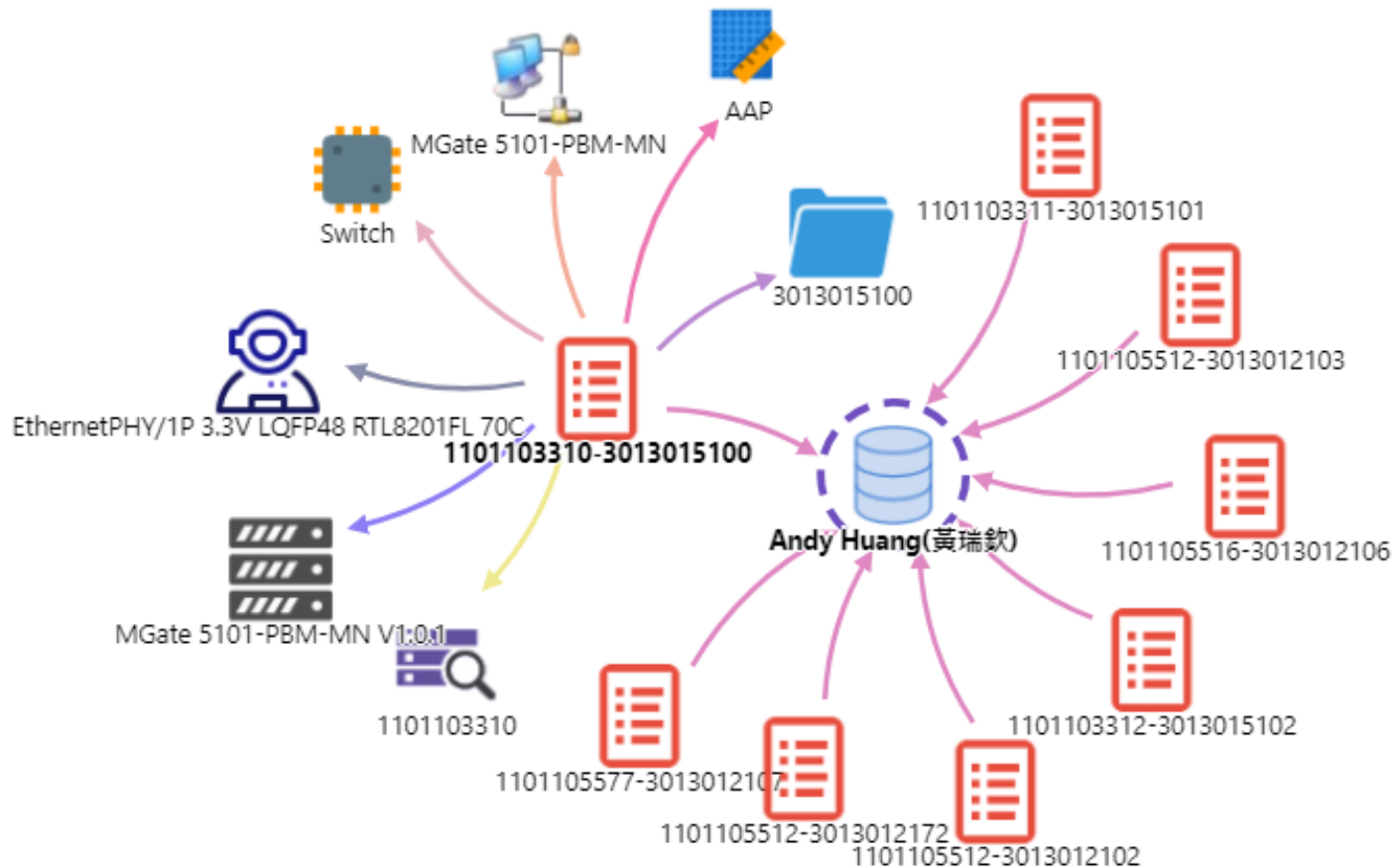
Assets – Comprehensive Overview



View Object Graph

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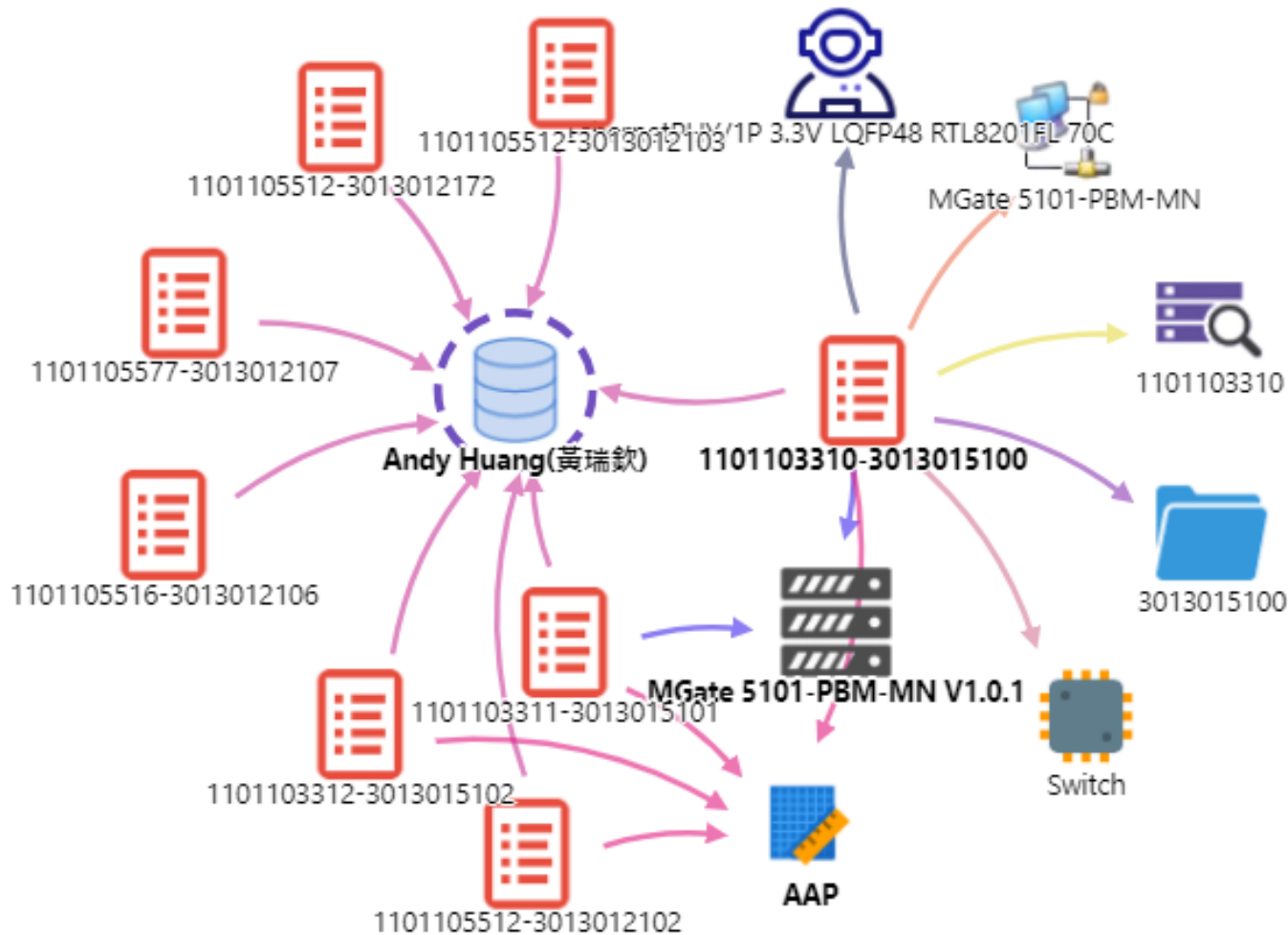
Assets – Comprehensive Overview



View Object Graph

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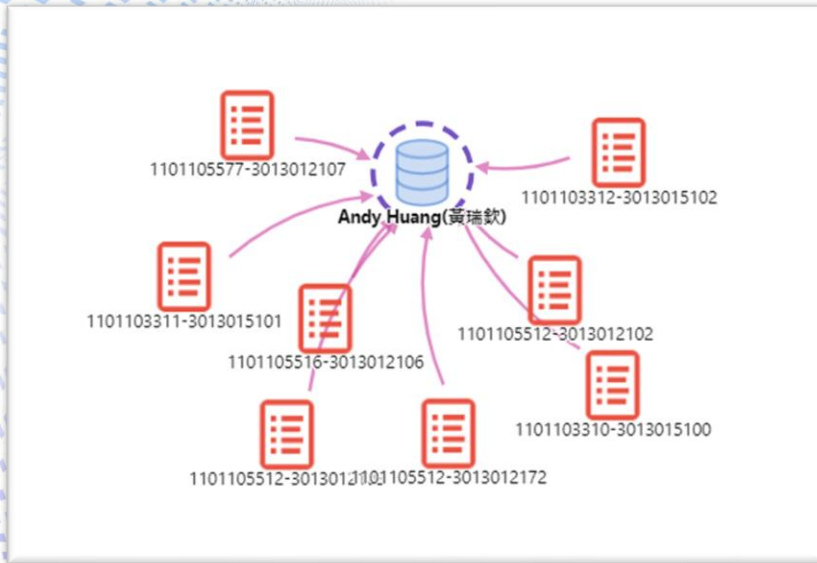
Assets – Comprehensive Overview



View Object Graph

1. Scalability
2. Browsing and Navigation
3. Representing complex relationships

Assets – Quick Update & Tracking



Product Owner
No description

Filter Search Advanced

Name *
Andy Huang(黃瑞欽)

Andy-Component / Product Owner / ACOM-5999

Andy Huang(黃瑞欽)

Edit Add Comment More Object Graph

Details
Name Andy Huang(黃瑞欽)

Activity
Comments History

There are no comments yet on this object

Add Comment

Edit Object

Name *

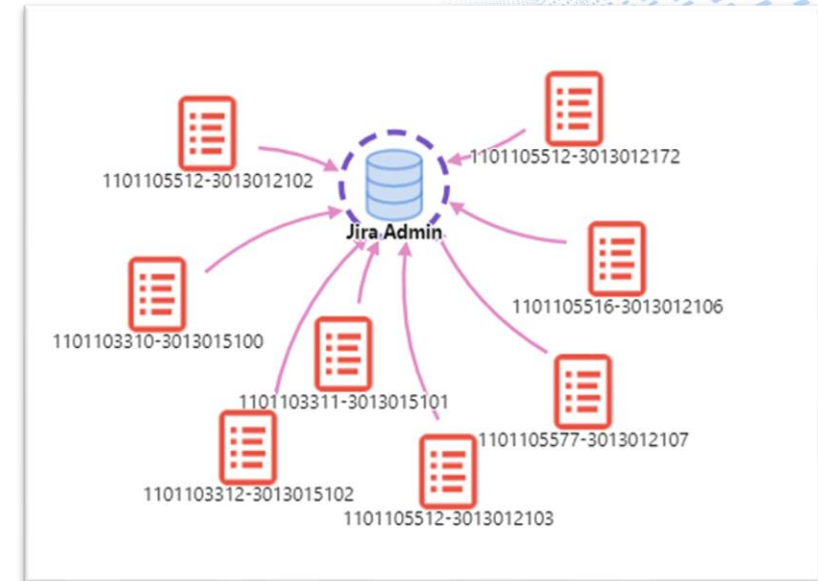
The name of the object

Activity

Comments History

Created	Type	Actor	Attribute	Old value	New value
2023/07/15 10:24 PM	Changed Value	Andy JC Huang (黃瑞欽)	Name	Andy Huang(黃瑞欽)	Jira Admin

Data quick update step



Assets – Quick Update & Tracking

Product Owner
No description

Filter Search Advanced

Name [↑]

Andy Huang(黃瑞欽)

Andy-Component / Product Owner / ACOM-5999

Andy Huang(黃瑞欽)

Edit Add Comment More

1. Intuitive and easy to operate

Details

Name

Activity

Comments History

There are no comments yet on this object

Add Comment

Edit Object 2. Quick update information

Name*

The name of the object

3. Data can be tracked and audited

Activity


Comments **History**


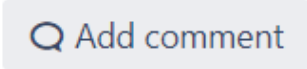
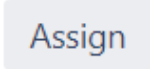
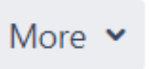
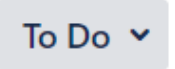
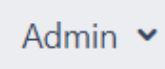
Created	Type	Actor	Attribute	Old value	New value
2023/07/15 10:24 PM	Changed Value	Andy JC Huang (黃瑞欽)	Name	Andy Huan g(黃瑞欽)	Jira Admin

How to Utilize Asset Management with Jira software




Assets – Consolidated into a single field

 andytest / AN-19
1101103310-3013015100


 Edit  Add comment  Assign  More  To Do  Admin

▼ Details

Type: Task


Priority:  Medium

Labels: None

Andy-Component:  1101103310-3013015100


▼ Description
Click to add description







▼ Attachments

 Drop files to attach, or [brc](#)



1. Assets can be used as Custom Field
2. Field values can be searched
3. Object attributes on Issue view
4. Expand more Assets details

Assets – Consolidated into a single field

 andytest / AN-19
1101103310-3013015100

 Edit  Add comment  Assign  More  To Do  Admin

Details







Type: Task
Priority:  Medium
Labels: None
Andy-Component:  1101103310-3013015100

Description
Click to add description


Attachments

1. Assets can be used as Custom Field
2. Field values can be searched
3. Object attributes on Issue view
4. Expand more Assets details

All Objects

-  1101103311-3013015101
-  1101103312-3013015102
-  1101105512-3013012102
-  1101105512-3013012103
-  1101105512-3013012172
-  1101105516-3013012106

Assets – Consolidated into a single field

 andytest / AN-19
1101103310-3013015100


 Edit  Add comment  Assign  More  To Do  Admin


Details

Type: Task

Priority:  Medium

Labels: None

Andy-Component:  1101103310-3013015100

Material Number:  1101103310


Material Description:  EthernetPHY/1P 3.3V LQFP48 RTL8201FL 70C


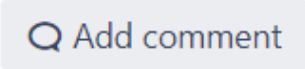
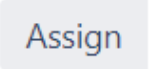
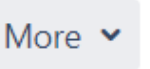
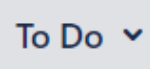
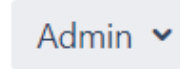
Description

Click to add description

1. Assets can be used as Custom Field
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Assets – Consolidated into a single field

 andytest / AN-19
1101103310-3013015100


 Edit  Add comment  Assign  More  To Do  Admin

▼ Details

Type: Task


Priority:  Medium

Labels: None

Andy-Component:  1101103310-3013015100

▼ Description
Click to add description

▼ Attachments

 Drop files to attach, or [brc](#)

1. Assets can be used as Custom Field
2. Field values can be searched
3. Object attributes on Issue view
4. Expand more Assets details

Assets – Consolidated into a single field

andytest / AN-19
1101103310-3

Object overview

Search

1101103310-3013015100

Key: ACOM-5970

Name: 1101103310-3013015100

Created: 2023/07/13 11:12 PM

Updated: 2023/07/15 11:08 PM

Material Number: 1101103310

LV10: 3013015100

SBU: Switch

Model name: MGate 5101-PBM-MN

Model name version: MGate 5101-PBM-MN V1.0.1

Material Description: EthernetPHY/1P 3.3V LQFP48 RTL8201FL 70C

Product Owner: Andy Huang(黃瑞欽)

SBU action: AAP

Close

1. Assets can be used as Custom Field
2. Field values can be searched
3. Object attributes on Issue view
4. Expand more Assets details

Assets – Filter & Dashboard

✓ Andy-Component in iqlFunction("Name= \"1101103310-3013015100\")

T	Key	Summary
<input checked="" type="checkbox"/>	AN-19	1101103310-3013015100

1. Search Assets specific field value

✓ Andy-Component in iqlFunction ("ModelName like \"Mgate\" ")

T	Key	Summary
<input checked="" type="checkbox"/>	AN-24	1101105512-3013012172
<input checked="" type="checkbox"/>	AN-23	1101105512-3013012103
<input checked="" type="checkbox"/>	AN-22	1101105512-3013012102
<input checked="" type="checkbox"/>	AN-21	1101103312-3013015102

2. Through fuzzy search for Assets field value

Demo Test

Custom Charts							
#	Andy-Component	Status	To Do	Done	In Progress	Total	
1	None		8	9	1	18	
2	1101103310-3013015100 (ACOM-5970)		1	-	-	1	
3	1101103311-3013015101 (ACOM-5972)		1	-	-	1	
4	1101103312-3013015102 (ACOM-5971)		1	-	-	1	
5	1101105512-3013012102 (ACOM-5973)		1	-	-	1	
6 - 7	Show more...		2	-	-	2	
Total (Issues)			14	9	1	24	

3. The assets field can also be used in the Dashboard



Object and Attribute

Assets info can be fully presented
Attribute values are extensible and
can be customized



Powerful search function

Fuzzy search
Search Assets attribute value

Start Your Assets Management



View Object Graph

Representing complex relationships
Browsing and Navigation



Integrate Jira software

Assets as information about issues
Integrated in Filter and dashboard

Q & A



Thanks!

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