

# Software Architecture Overview

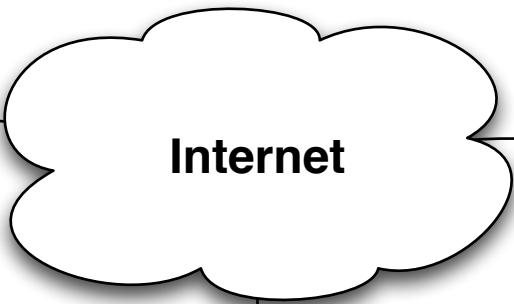


# Network Architecture Overview

Internet Client



SPOT Catalogue



Internet

Thumb  
Retrieval

**DMZ / VLAN**



ELEPHANT DB Server



LION App Server

Legacy  
Catalogue  
Updates

**SANSA-EO Network**

Ordering  
Service

Product  
Delivery



DIMS Catalogue



Informix ACS Server

# ACS Import Procedure



Product Overview

Product Details

Organisation

Operator

Product Type

Processing Level

Pixel dimensions x,y

Product date

Product time

Thumbnail

OK

Apply

Cancel

Product Overview

Product Details

Row

Path

Acquisition angle

OK

Apply

Cancel

Order

Catalogue

Logged in user

Home | Order | Search etc.

### Order Details

10

Processing Level

10

Delivery Method

Notes :

10

Vatum

10

File Format

OK

Cancel

### Order Products

Product ID: L7 MSS CAM1 12321 12312 3434

Product description blah blah blah

Details

Remove

Product ID: L7 MSS CAM1 12321 12312 3434

Product description blah blah blah

Details

Remove

Product ID: L7 MSS CAM1 12321 12312 3434

Product description blah blah blah

Details

Remove

10

Processing Level

10

Vatum

10

File Format

Product ID: L7 MSS CAM1 12321 12312 3434

Product description blah blah blah

Details

Remove

# Product ID Filter

## Preview

L5 MS MSS MSS 10-21 12-14 100101 100202

## Sensor Info

Mission	Sensor	Sensor Type	Acquisition Mode
L5	MS	MSS	MSS

## Row/Path

Needs radio buttons

Start Row	End Row	or...	Row List
10	21		10,12,14
Start Path	End Path		Path List
12	14		12,14,16

## Date Range

Start Date	End Date
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OK	Cancel
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# Advanced Search

Note: \* items mandatory

Search

## Product Type Details

Product Type\*

License Type

## Sensor Details

Mission(s) ☒

Mission Sensor(s) ☒

Note: X = clear selection

Type(s) ☒

Mode(s) ☒

## Image Details

☒ Cloud Cover

Acquisition Angle Min

Max

Geometric Accuracy\*

Bands

Note: select nothing = use all

## Row & Path

Row

Level(s) ☒

Path

Allowed formats: Single item e.g. 11, Range [min,max] e.g. [12,201], List e.g. 12,15,22

## Geometry

Position & Radius or Box

Allowed formats: Point with radius e.g. 22,-32,100m, BBox e.g. 1,1,33

## Dates

Start

February 2008

S	M	T	W	T	F	S
				1	2	
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	

End

February 2008

S	M	T	W	T	F	S
				1	2	
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	

Date range(s)\*

☒ Add

01-01-2010 : 01-10-2011  
01-01-2010 : 01-10-2011  
etc.

# Advanced Search

Search

Note: \* items mandatory

## Product Type Details

Product Type\*

Radar

License Type

Free

## Sensor Details

Mission(s)

X

SAR  
ERS  
etc.

Mission Sensor(s)

X

SAR  
ERS  
etc.

Type(s)

X

SAR  
ERS  
etc.

Models

X

SAR  
ERS

Note: X = clear selection

Note: select nothing = use all

## Image Details

Polarisation Mode

☒ Single Pole

☐ Dual Pole

☐ Quad Pole

Incidence Angle Min

10

Max

14.5

Geometric Accuracy\*

1 - 7m

Bands

Panchromatic

## Row & Path

Row

[12,20]

Level(s)

X

L1a  
L1b  
etc.

Path

14,12,339

Allowed formats: Single item e.g. 11, Range [min,max] e.g. [12,20], List e.g. 12,15,22

## Geometry

Position & Radius or Box

[12,20]

Allowed formats: Point with radius e.g. 22,-32,100m, BBox e.g. 1,1,33

## Dates

Start

End

Date range(s)\*

February 2008

S	M	T	W	T	F	S
				1	2	
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
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February 2008

S	M	T	W	T	F	S
				1	2	
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	

X

Add

Remove

01-01-2010 : 01-10-2011  
01-01-2010 : 01-10-2011  
etc.



# Advanced Search

Note: \* items mandatory

Search

## Product Type Details

Product Type\*

Generic Imagery

License Type

Free

## Image Details

Geometric Accuracy\*

1 - 7m

Level(s)

☒ L1a  
L1b  
etc.

Bands

Panchromatic

## Geometry

Position & Radius or Box

[12,20]

Allowed formats: Point with radius e.g. 22-32,100m, BBox e.g. 1,1,3,3

## Dates

Start

February 2008

S

M

T

W

T

F

S

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

End

February 2008

S

M

T

W

T

F

S

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

Date range(s)\*

☒

Add

☐

Remove

01-01-2010 : 01-10-2011  
01-01-2010 : 01-10-2011  
etc.

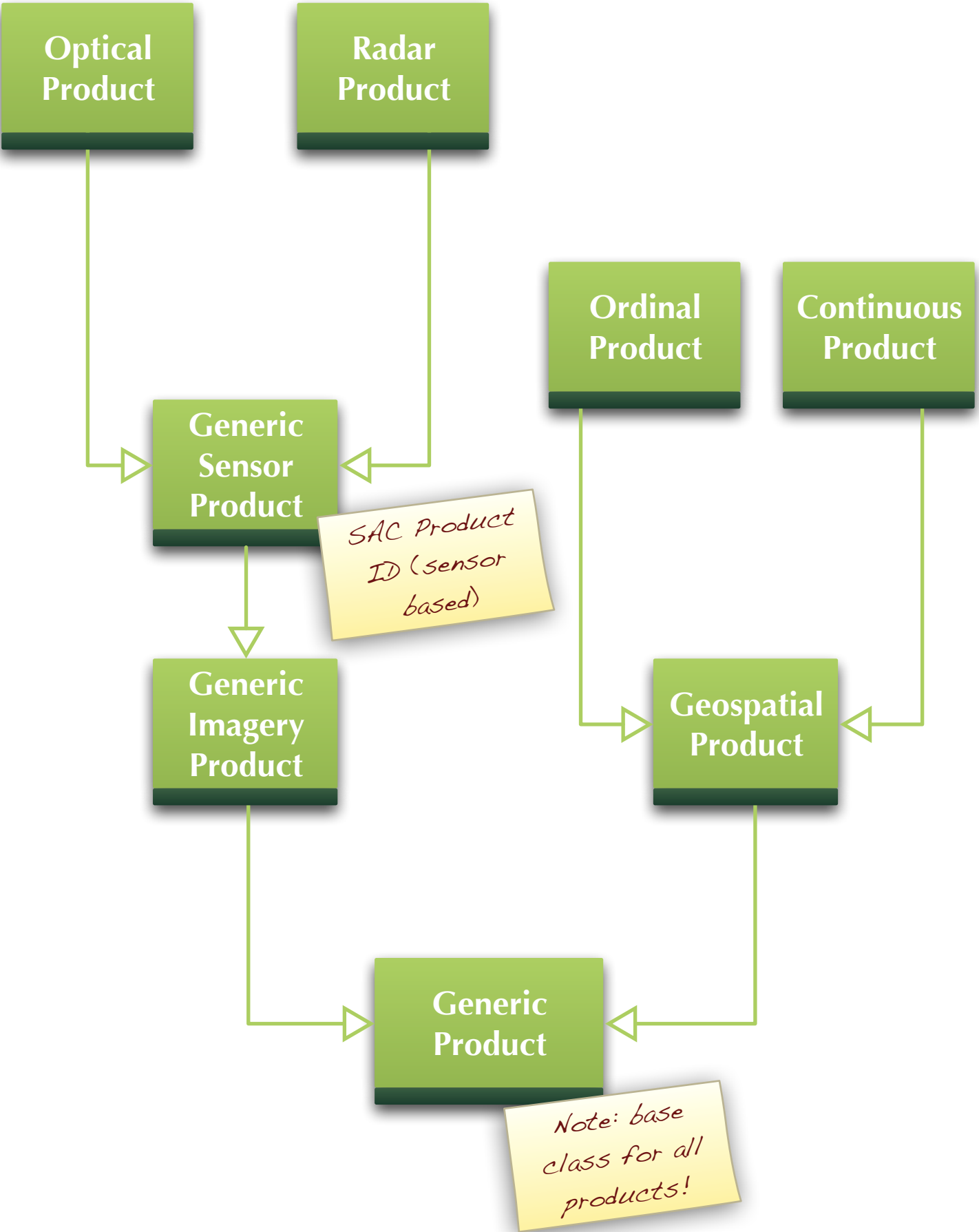
**<1m, 1-7m, 7-25m,  
25-70m, 70-1km**

**Pan, True Colour,  
Multispectral, Superspectral,  
Hyperspectral**

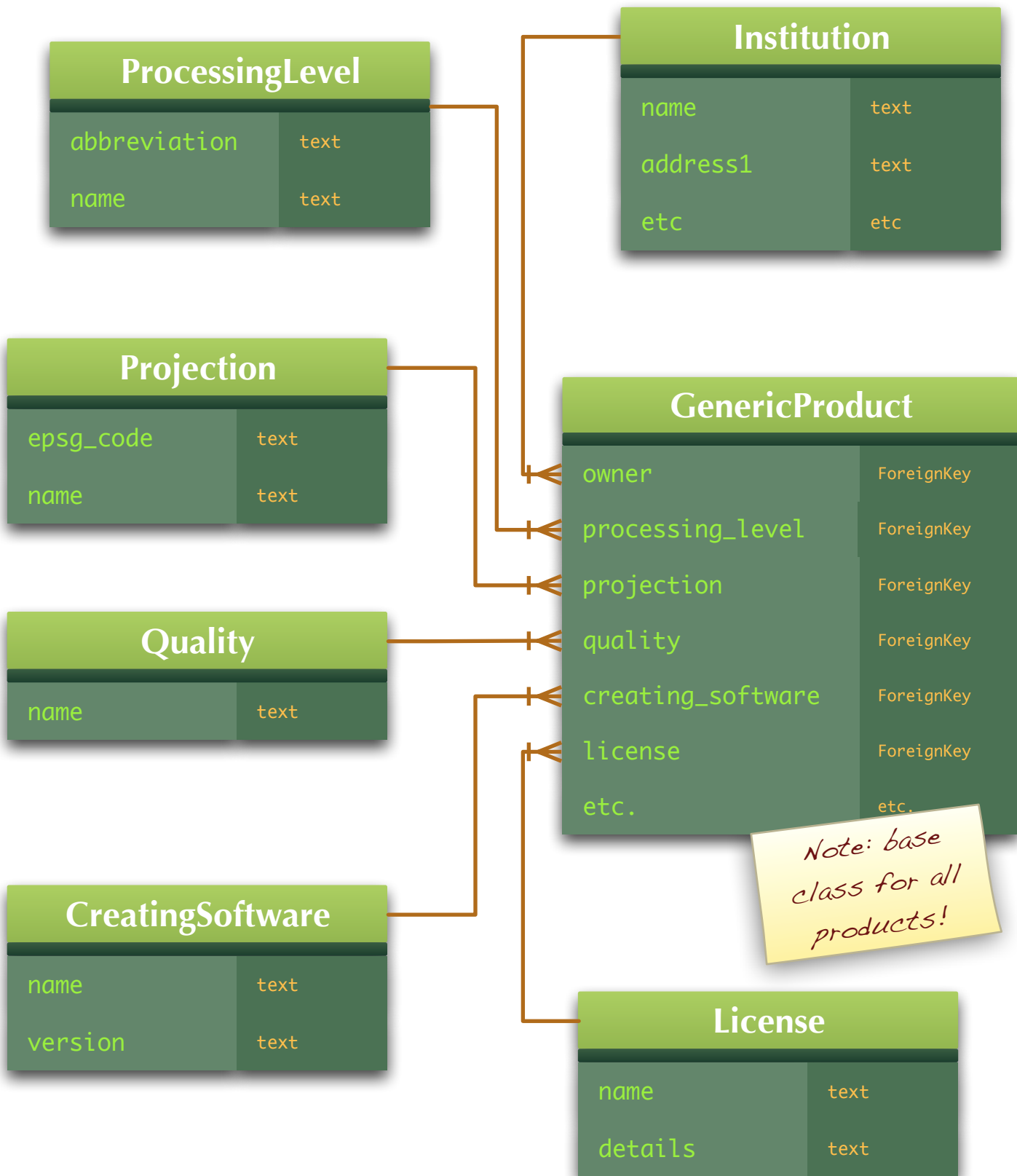
**Optical, Generic Imagery,  
Radar, GeoSpatial**

**Free, Government,  
Commercial, Any**

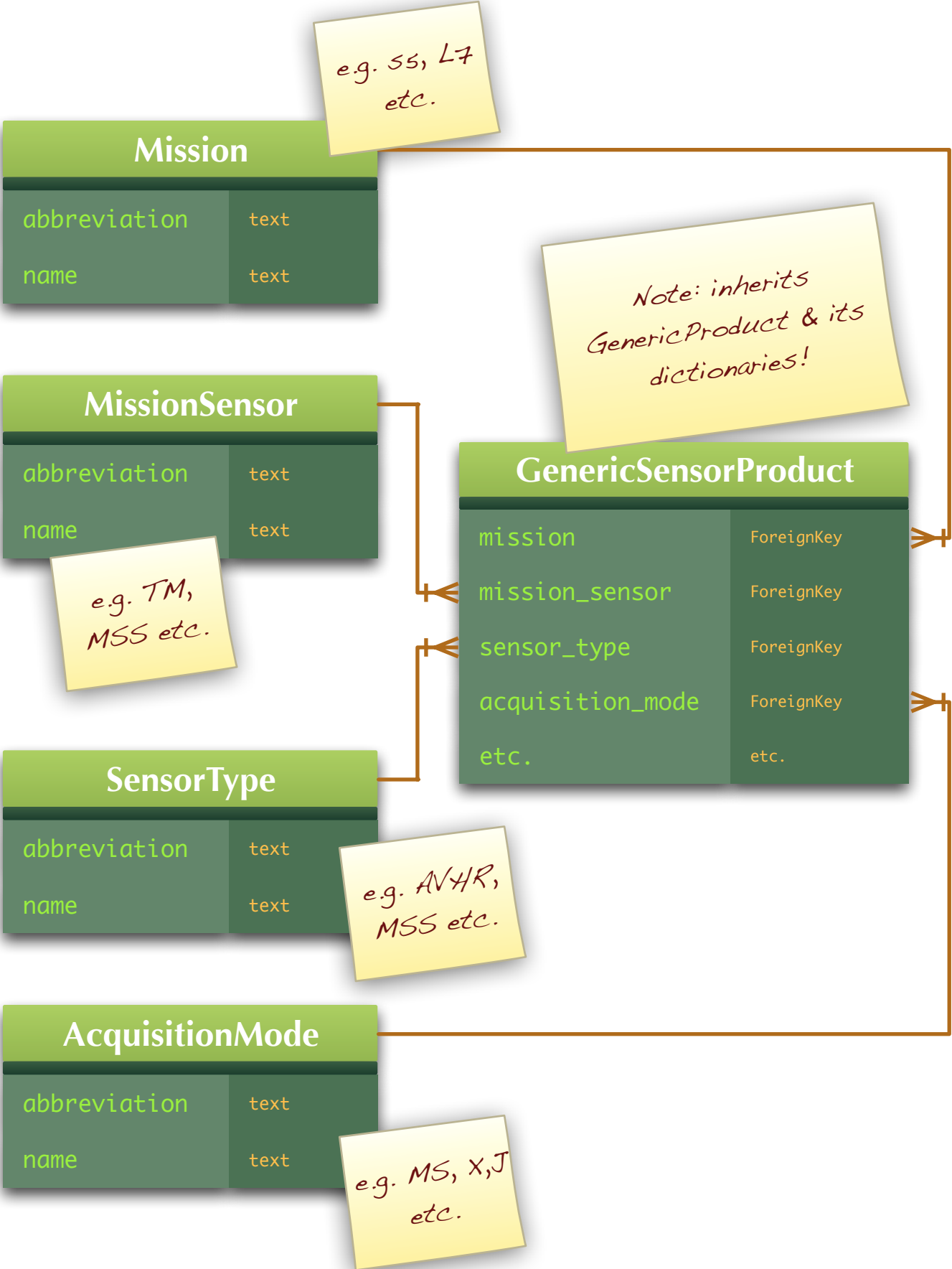
# Product Heirarchy



# Generic Product Dictionaries



# Generic Sensor Product Dictionaries (Pre-refactoring)



# Generic Sensor Product Dictionaries

GenericSensorProduct	
acquisition_mode	ForeignKey
etc.	etc.

Mission	
abbreviation	text
name	text
mission_group	ForeignKey

MissionSensor	
mission	ForeignKey
abbreviation	text
name	text
is_taskable	bool

MissionGroup	
name	text

SensorType	
mission_sensor	ForeignKey
abbreviation	text
name	text

AcquisitionMode	
sensor_type	ForeignKey
abbreviation	text
name	text
spatial_resolution*	integer
is_greyscale	bool

 New Items

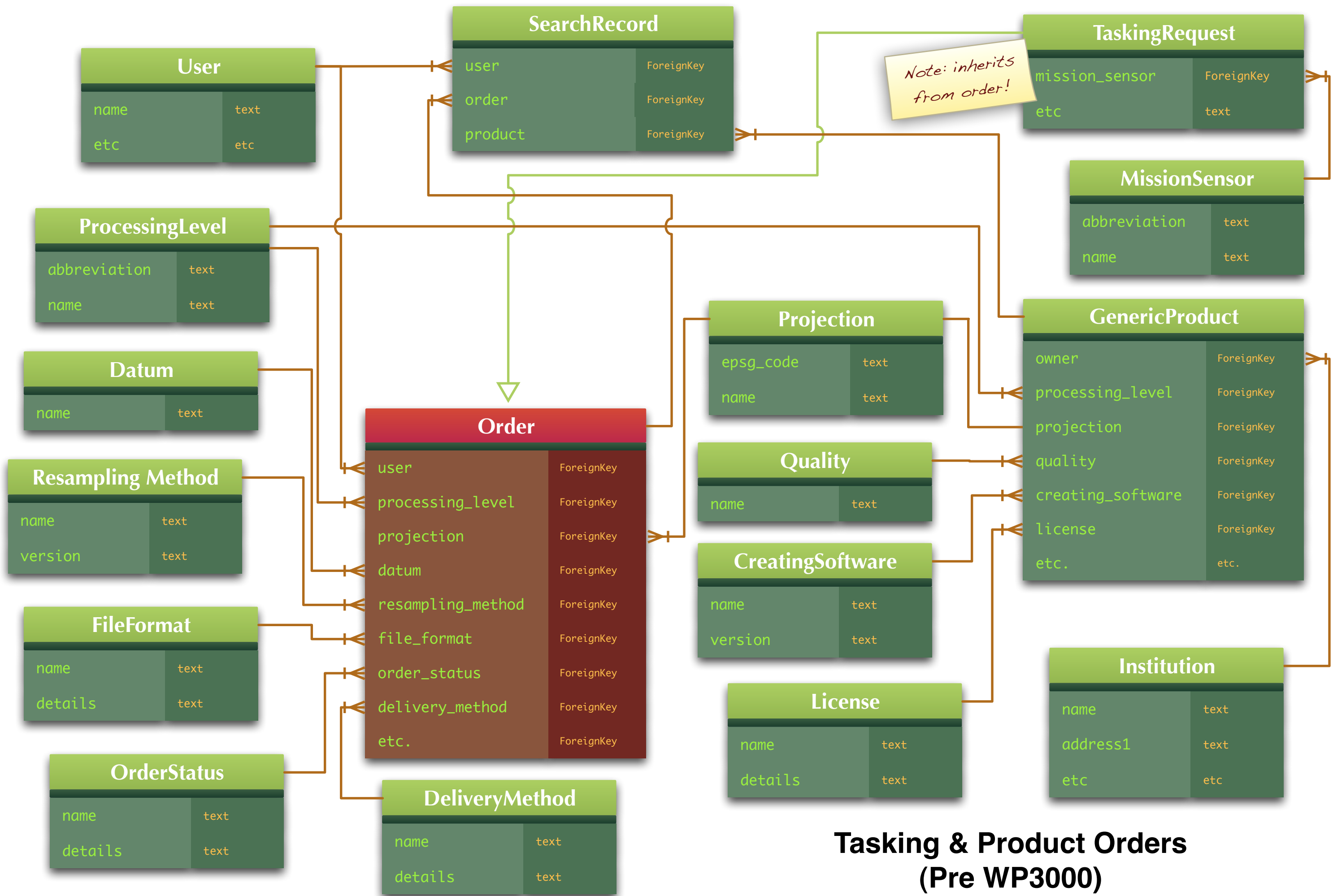
\* Not used for advanced search as products may have been resampled. Should be used to assign initial spatial resolution to all products in existing catalogue. Spatial resolution is then stored in the product table itself. New products arriving should be given a default value from the Acq Mode table where appropriate.

*e.g. MS, X, J etc. now we can include resolution as its sensor & mission specific*

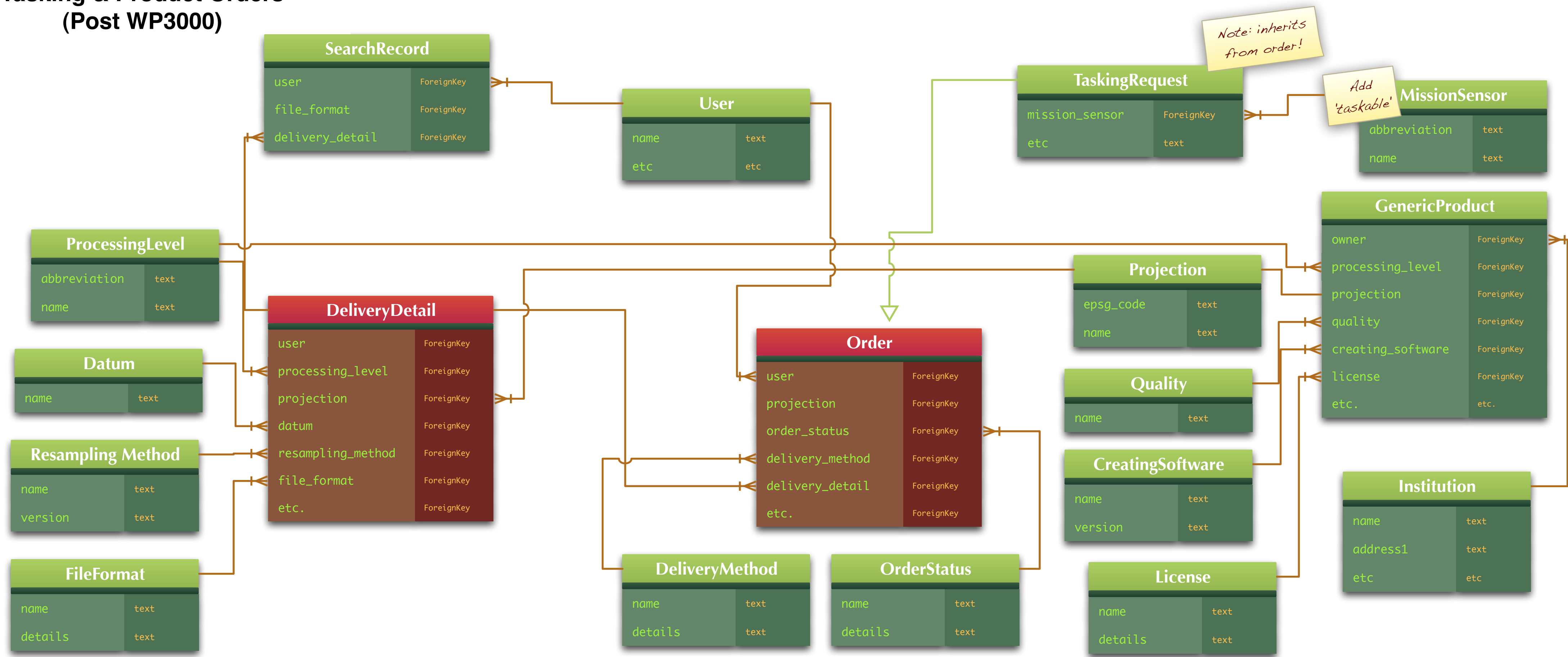
*e.g. SS, L7 etc.*

*e.g. TM, MSS etc.*

*e.g. AVHR, MSS etc.*



Tasking & Product Orders  
(Post WP3000)





# GIT Topology

