

Software Architecture Overview

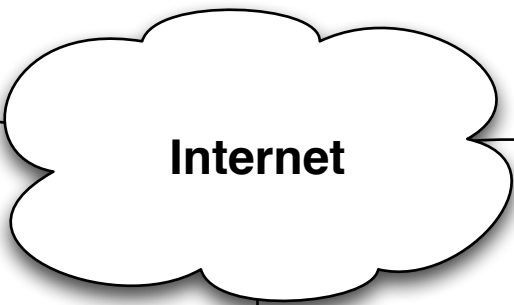


Network Architecture Overview

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

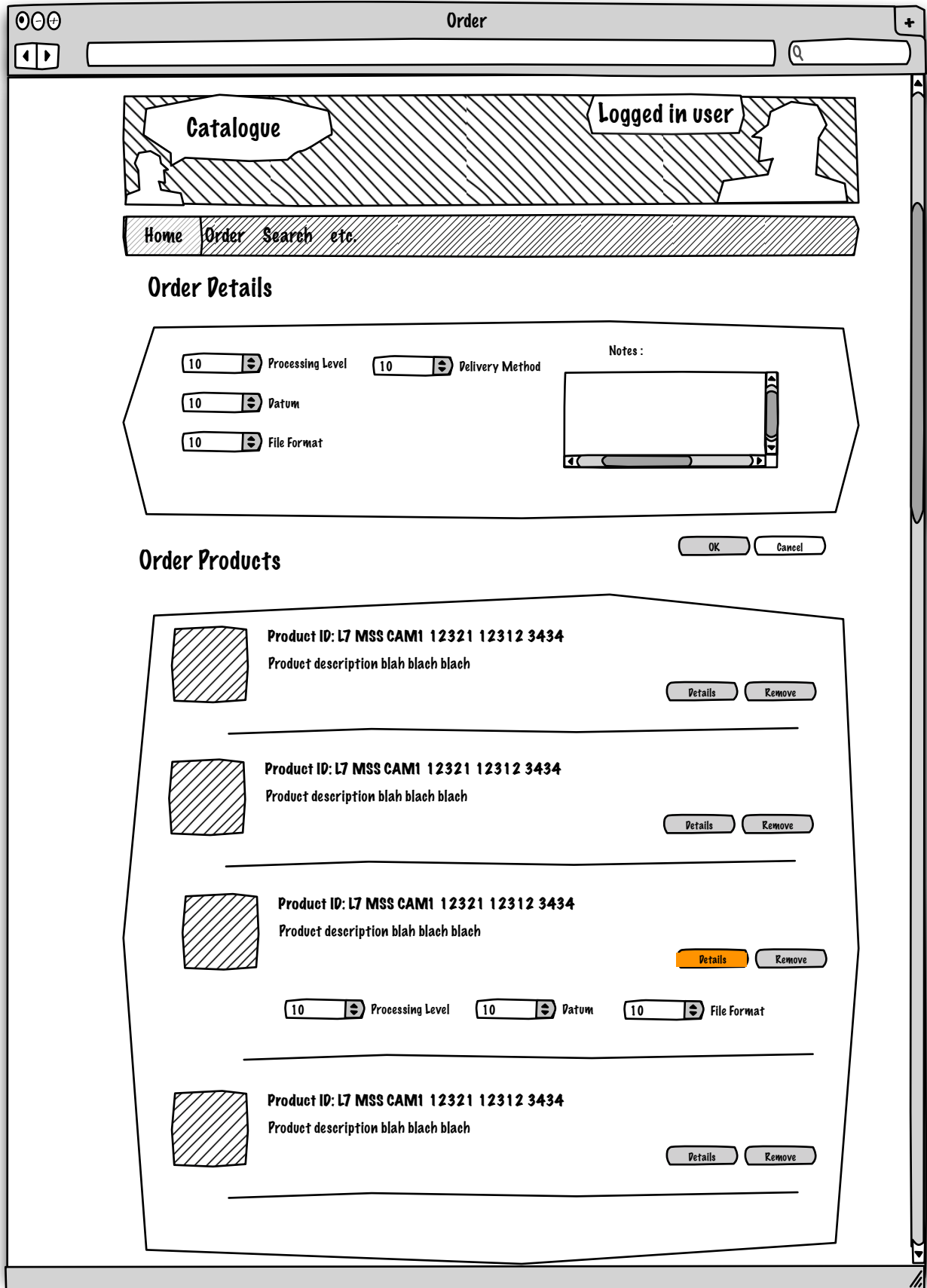
Path

Acquisition angle

OK

Apply

Cancel



Search

Catalogue

Logged in user

Home

Order

Search

etc.

Map

Simple Search

Map Help

Toggle Advanced Search

Search

Dates

Start

End

Date range(s)*

X

Add

Remove

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

February 2008

S

M

T

W

T

F

S

1

2

3

4

5

6

7

8

9

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11

12

13

14

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29

February 2008

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20

21

22

23

24

25

26

27

28

29

Search

Product ID Filter - Optical Products

Preview

L5 MS MSS MSS 10-21 12-14 100101 100202 L1A

Sensor Info

Mission

L5

Sensor

MS

Sensor Type

MSS

Acquisition Mode

MSS

Row & Path

Processing

Row

[12,20]

Level

L1Aa

Path

14,12,339

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	

X

Add

Remove

Date range(s)*

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

OK

Cancel

Advanced Search

Map Help

Toggle Advanced Search

Search

Product Type Details

Product Type*

License Type

Sensor Details

Mission(s) ☒
Type(s) ☒

Mission Sensor(s) ☒
Mode(s) ☒

Note: X = clear selection

Note: select nothing = use all

Image Details

☒ Cloud Cover

Acquisition Angle Min

Max

Spatial Resolution*

Bands

Note: * items mandatory

Row & Path

Row

Path

Processing

Level(s) ☒

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

Geometry

Upload Shapefile

Upload KML

Position & Radius or Box

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
				1	2	
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10	11	12	13	14	15	16
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End

February 2008

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17	18	19	20	21	22	23
24	25	26	27	28	29	

Date range(s)*

☒ Add

☐ Remove

Search

Advanced Search

[Map Help](#)[Toggle Advanced Search](#)[Search](#)

Product Type Details

Product Type*

Radar

License Type

Free

Sensor Details

Mission(s)

SAR
ERS
etc.

Mission Sensor(s)

SAR
ERS
etc.

Note: X = clear
selection

Type(s)

SAR
ERS
etc.

Models(s)

SAR
ERS

Note: select
nothing = use all

Image Details

Polarisation Mode



Single Pole



Dual Pole



Quad Pole



All

Incidence Angle Min

10

Max

14.5

Spatial Resolution*

1 - 7m

Row & Path

Row

[12,20]

Level(s)

L1a
L1b
etc.

Path

14,12,339

Processing

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

Geometry

[Upload Shapefile](#)[Upload KML](#)

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
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February 2008

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10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	

☒

Add

Remove

☒

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

[Search](#)

Advanced Search

Map Help

Toggle Advanced Search

Search

Product Type Details

Product Type*

Generic Imagery

License Type

Free

Image Details

Spatial Resolution*

1 - 7m

Level(s)

☒ L1a
L1b
etc.

Bands

Panchromatic

Geometry

Upload Shapefile

Upload KML

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
					1	2
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End

February 2008

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17	18	19	20	21	22	23
24	25	26	27	28	29	

Date range(s)*

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



Search

Advanced Search

Note: * items mandatory

Product Type Details

Product Type*

Geospatial Product

License Type

Free

Product Details

Effective Scale Better Than 1:

500000

Topic

Landcover

Geometry

Upload Shapefile

Upload KML

Position & Radius or Box

[12,20]

Allowed formats: Point with radius e.g. 22,-32,100m, BBox e.g. 11,33

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	

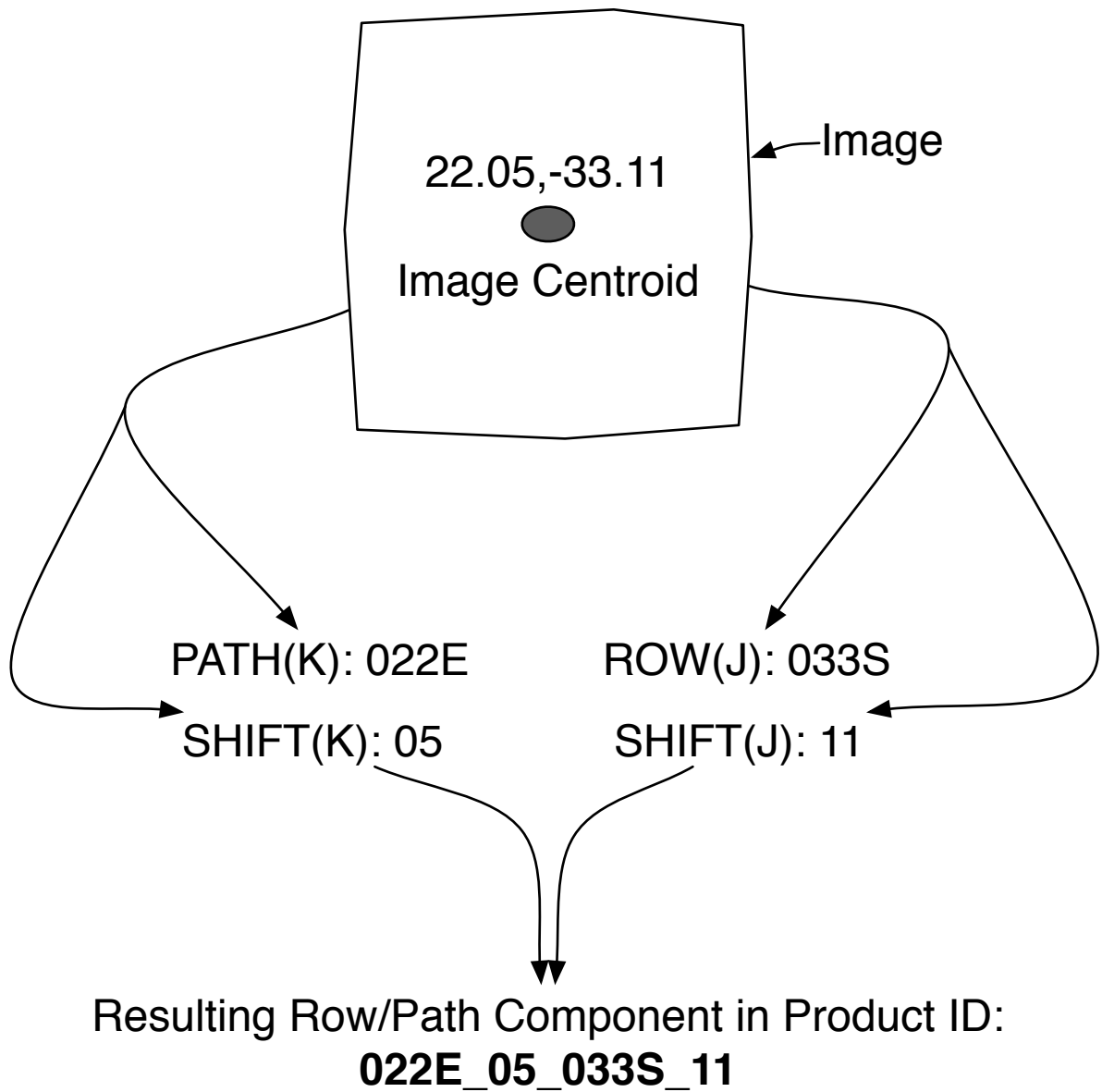
End

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	

Search

Centroid Derived Row/Path for product ID's



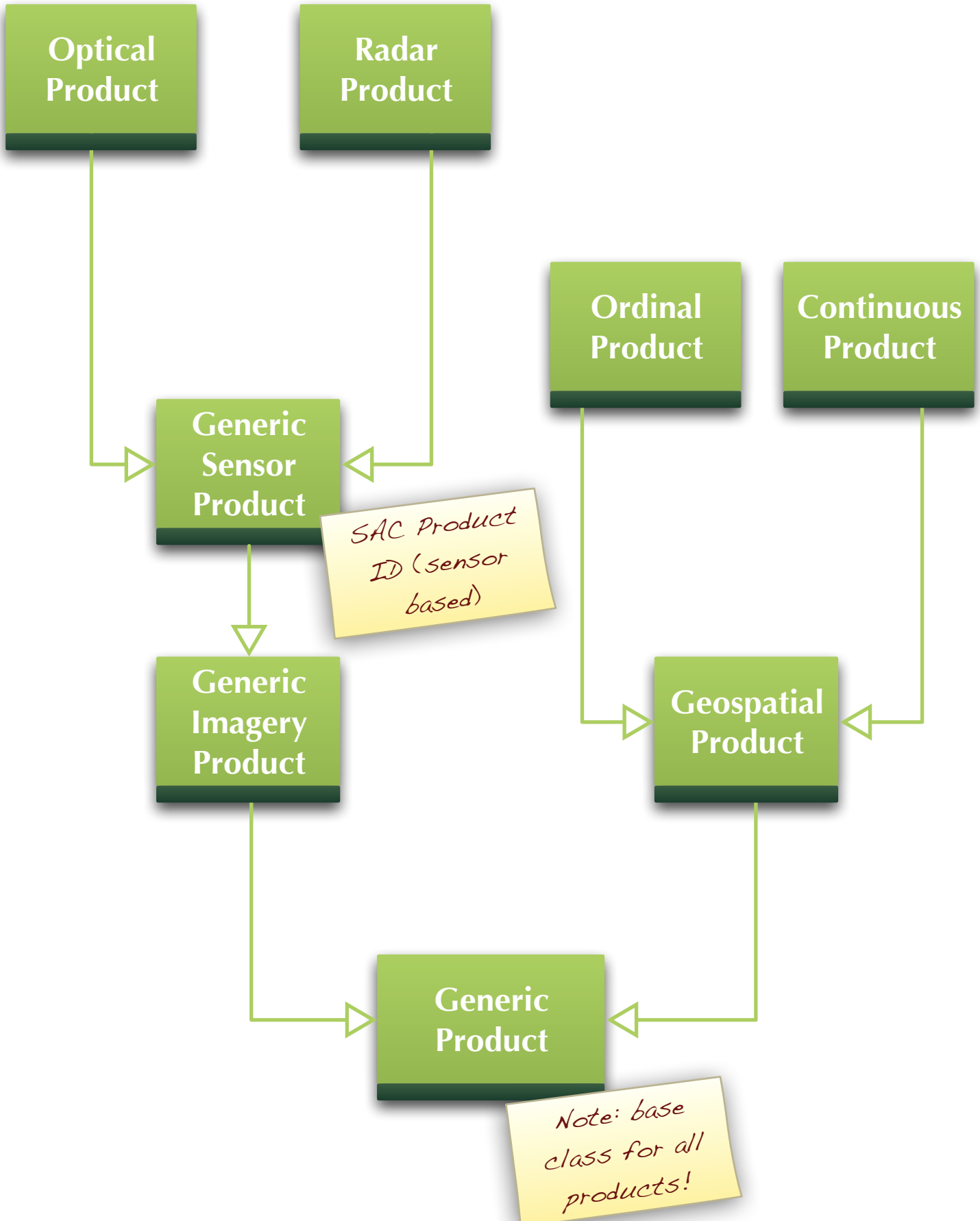
**<1m, 1-7m, 7-25m,
25-70m, 70-1km**

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

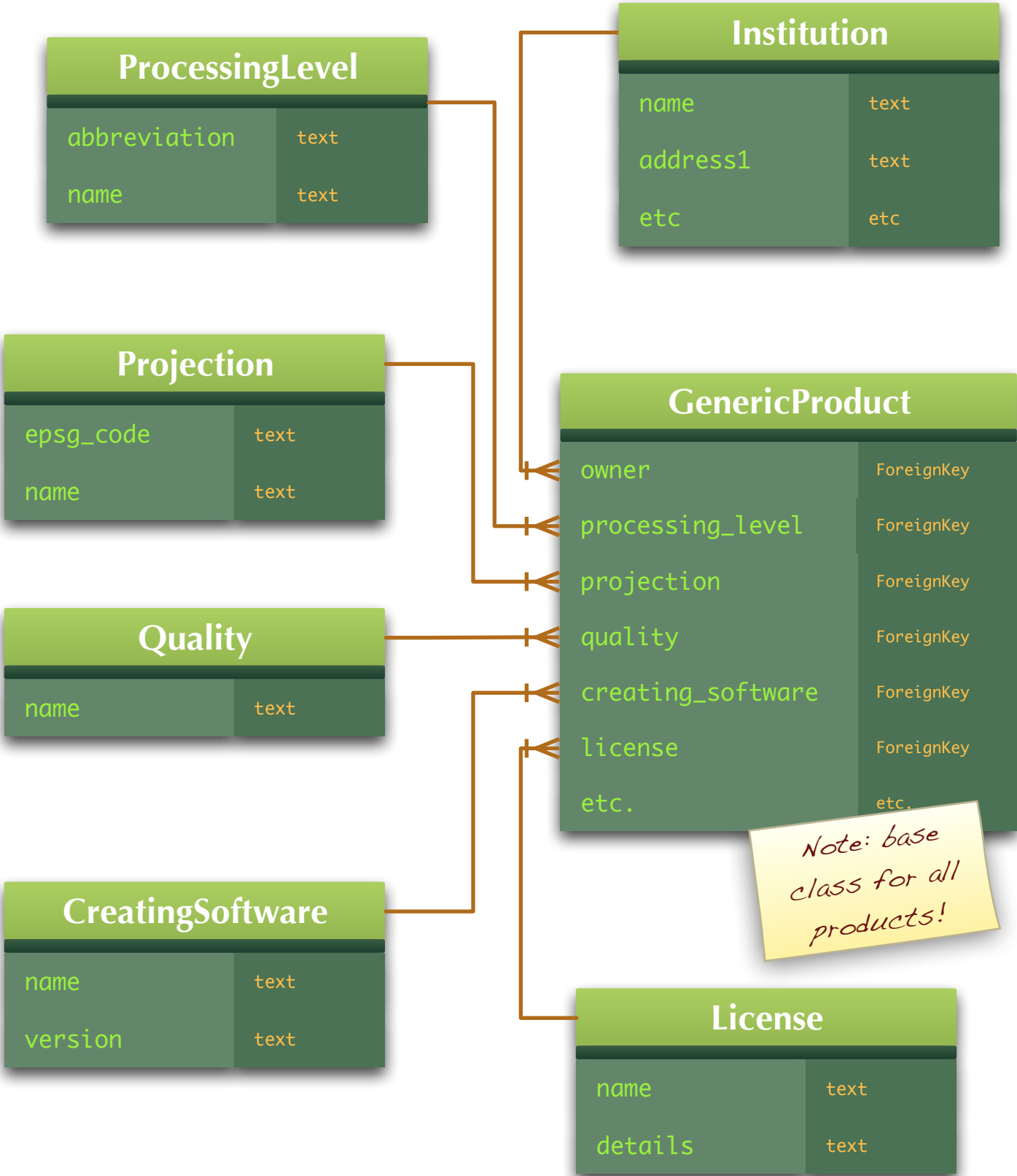
**Optical, Generic Imagery,
Radar, GeoSpatial**

**Free, Government,
Commercial, Any**

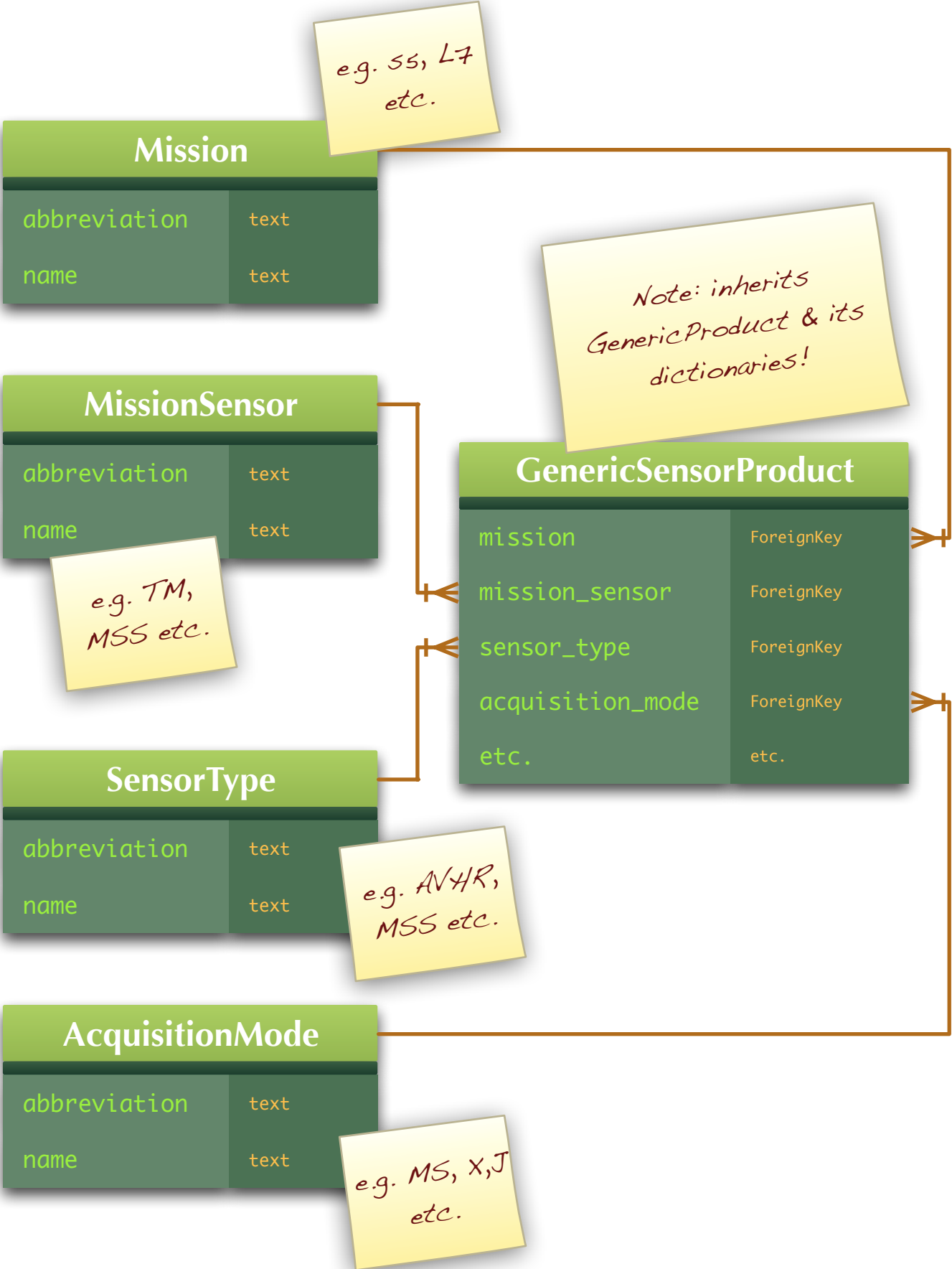
Product Heirarchy



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

*e.g. SS, L7
etc.*

MissionGroup	
name	text

*e.g.
Landsat,
NOAA etc.*

SensorType	
mission_sensor	ForeignKey
abbreviation	text
name	text

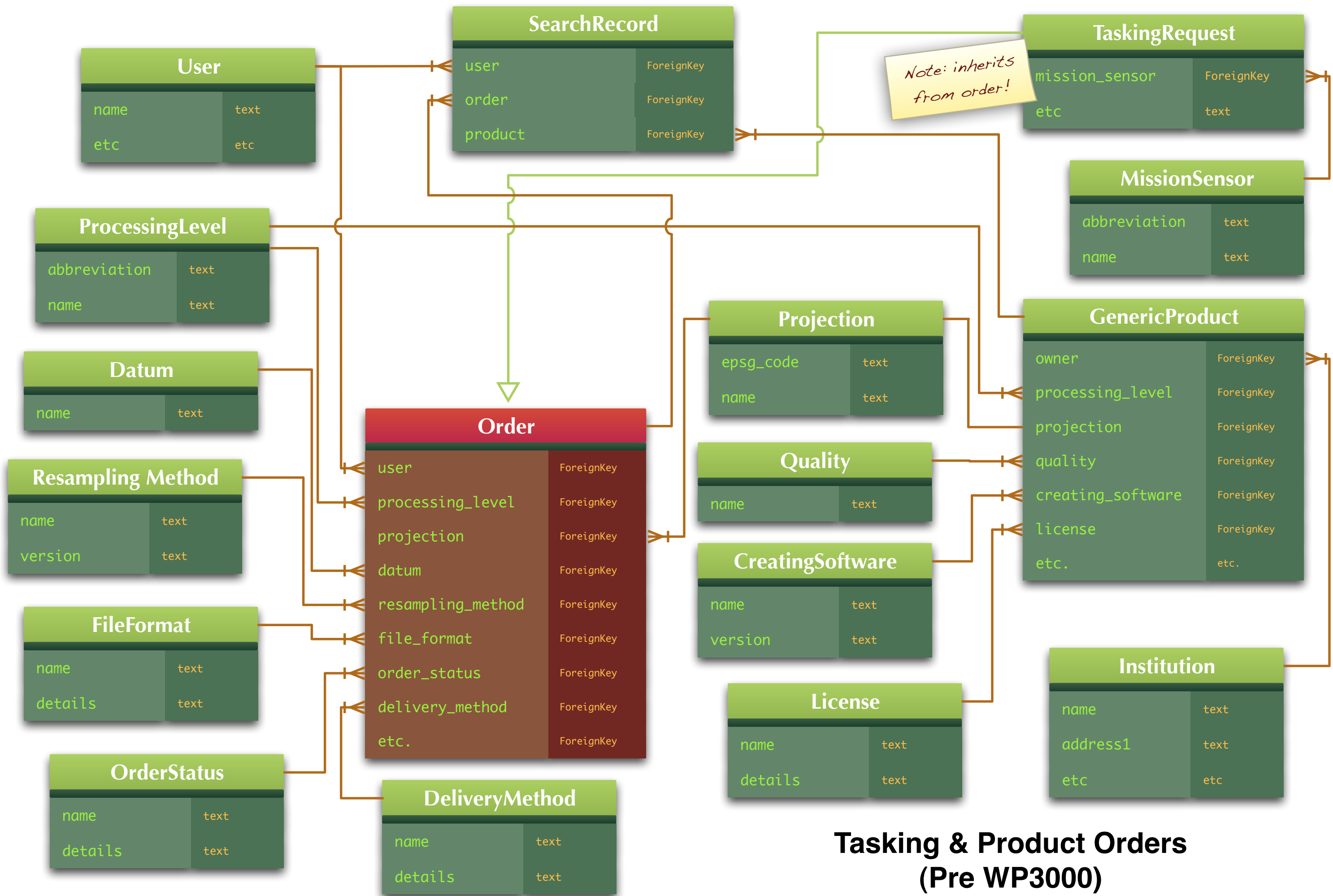
*e.g. AVHR,
MSS etc.*

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

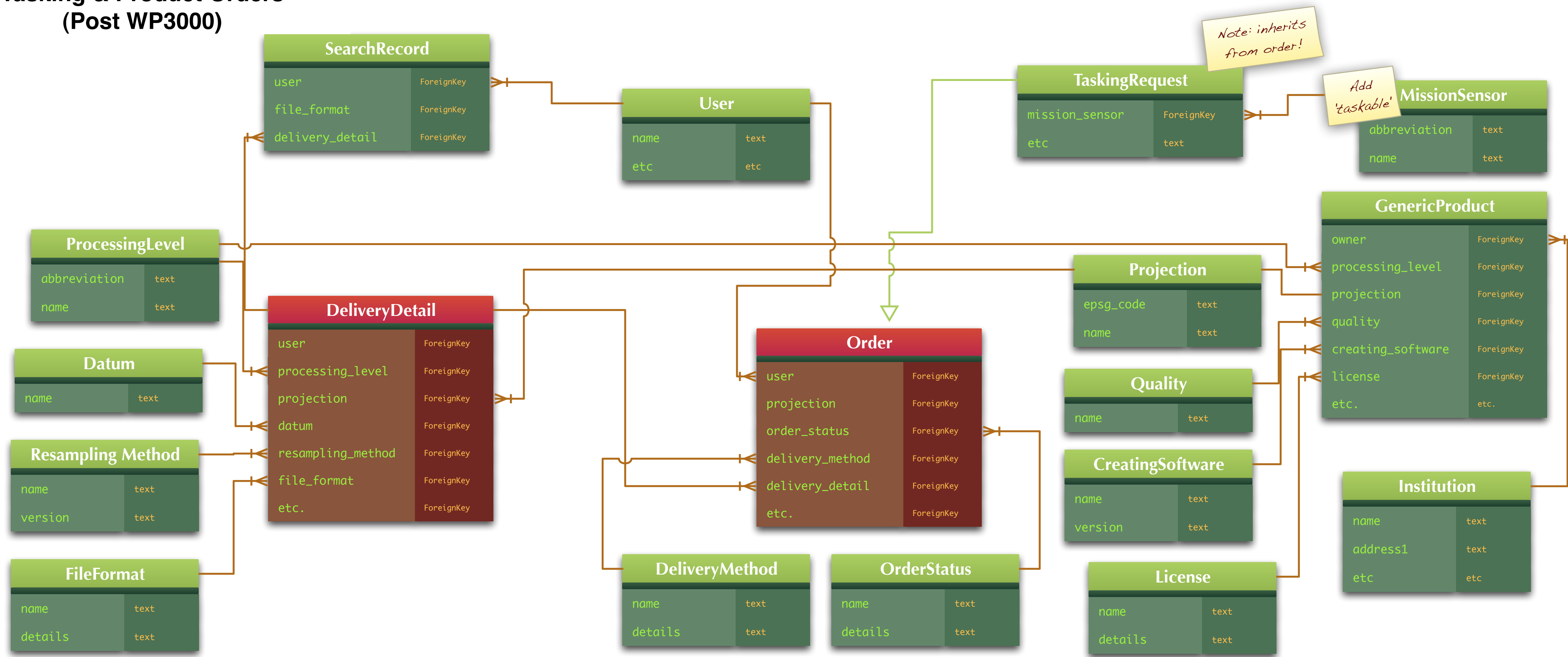
 New Items

* 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*



Tasking & Product Orders
(Post WP3000)



GIT Topology

