

Software Architecture Overview

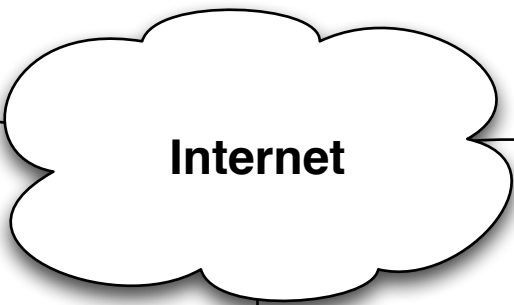


Network Architecture Overview

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

HomeOrderSearch 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

Search

Product Type Details

Product Type*
Optical

License Type
Free

Sensor Details

Mission(s)
Landsat 5
Spot 5
etc.

Mission Sensor(s)
MSS
Pan
etc.

Mode(s)
MS
HRT
etc.

Type(s)
MSS
Pan
etc.

Image Details

☒ Cloud Cover
0% 100%

☒ Acquisition Angle Min
10,12,14

Max
10,12,14

Geometric Accuracy*
1 - 7m

Bands
Panchromatic

Row & Path

Row
[12,20]

Path
14,12,33,9

Processing

Level(s)
L1a
L1b
etc.

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. 1,1,3,3

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

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18

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20

21

22

23

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25

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27

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29

End

February 2008

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W

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1

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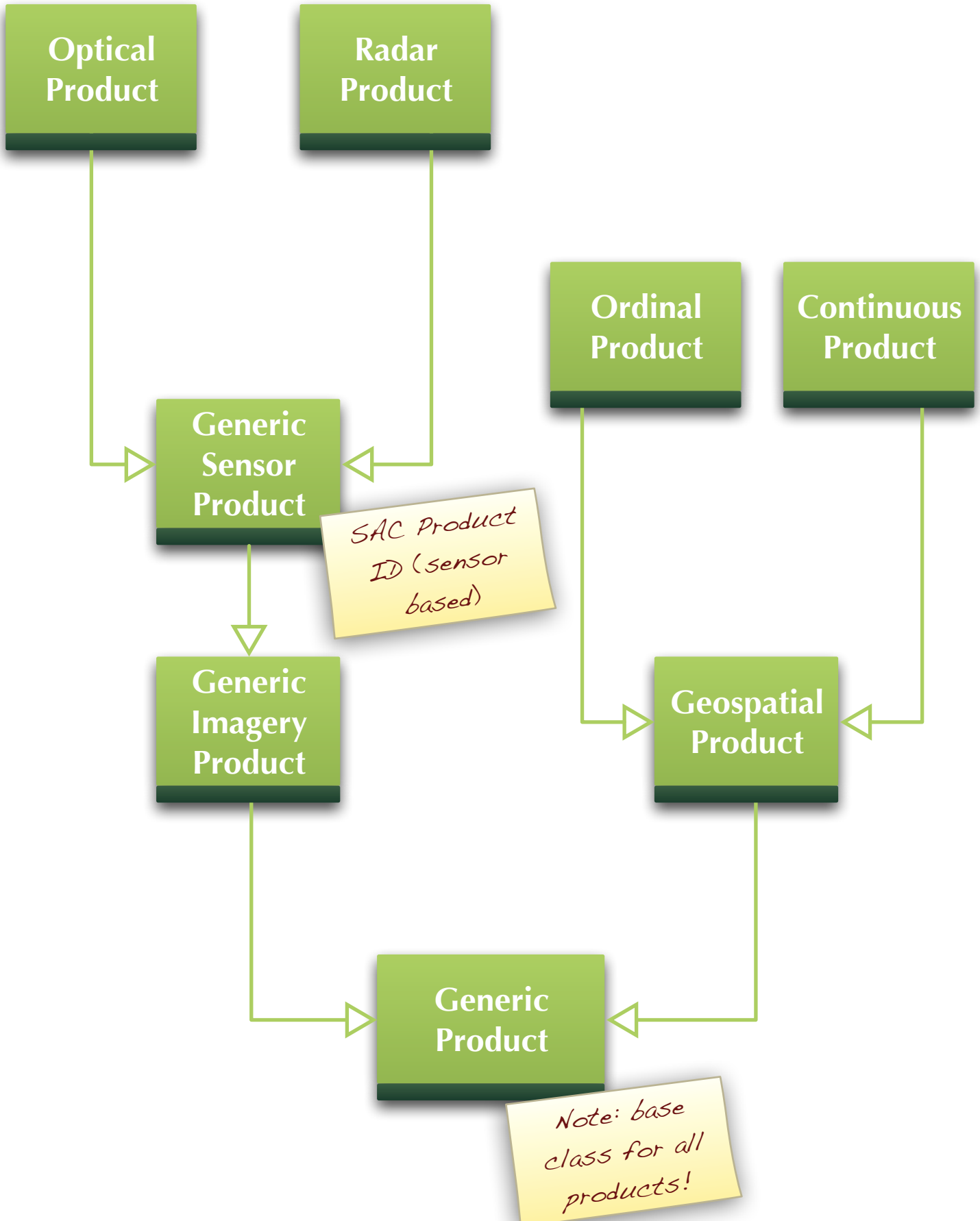
28

29

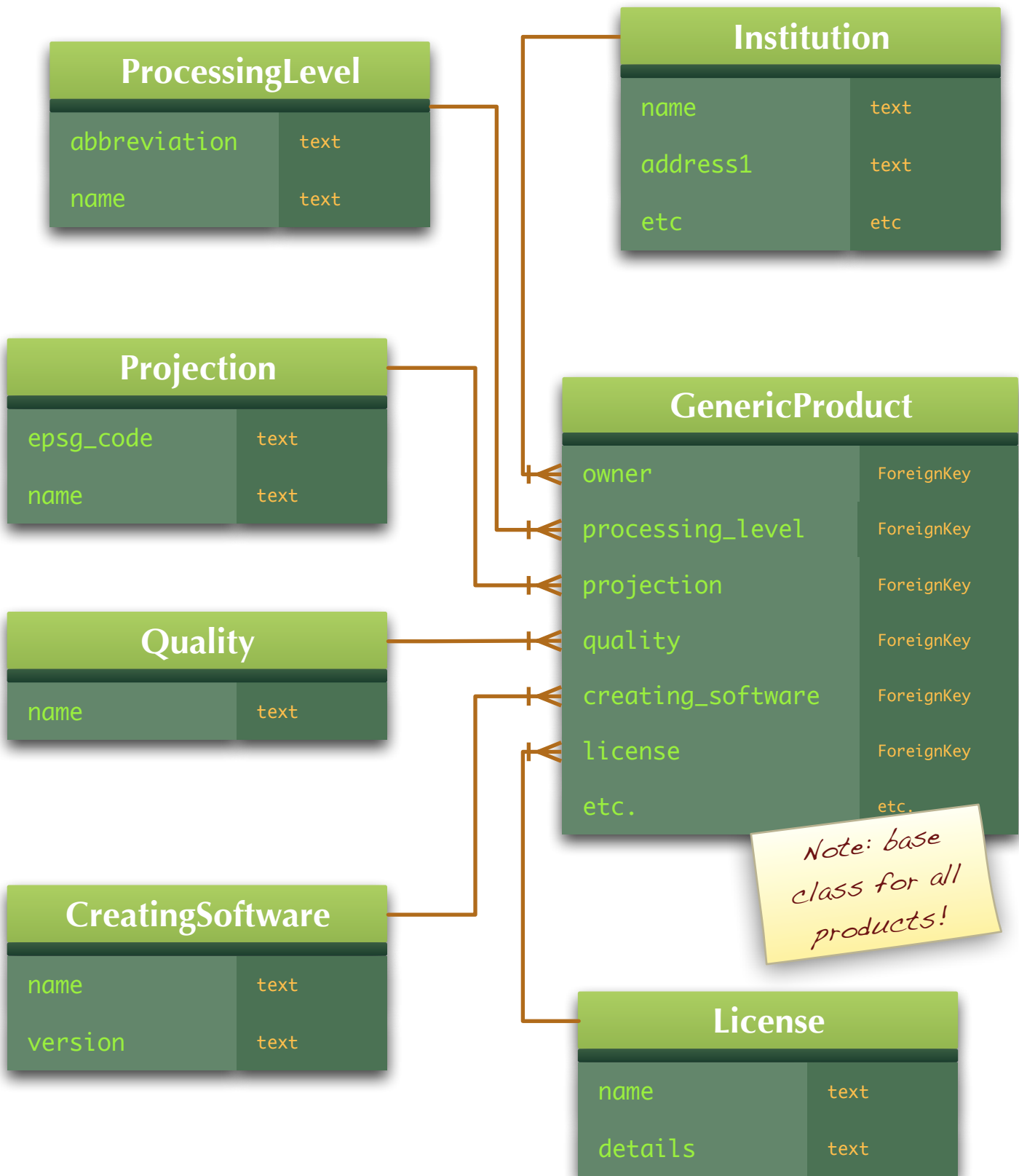


01-01-2010 : 01-10-2011
01-01-2010 : 01-10-2011
etc.

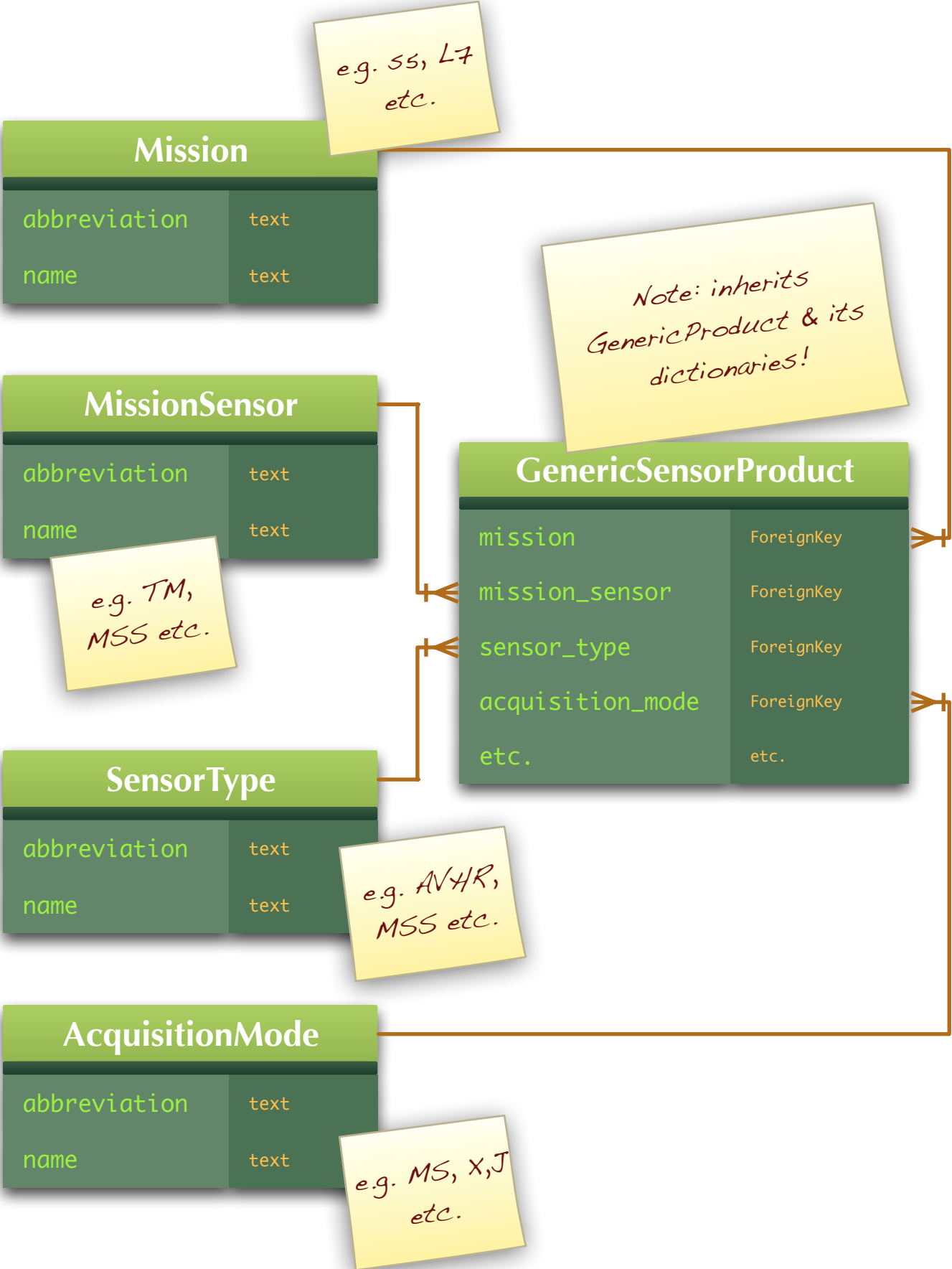
Product Heirarchy



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

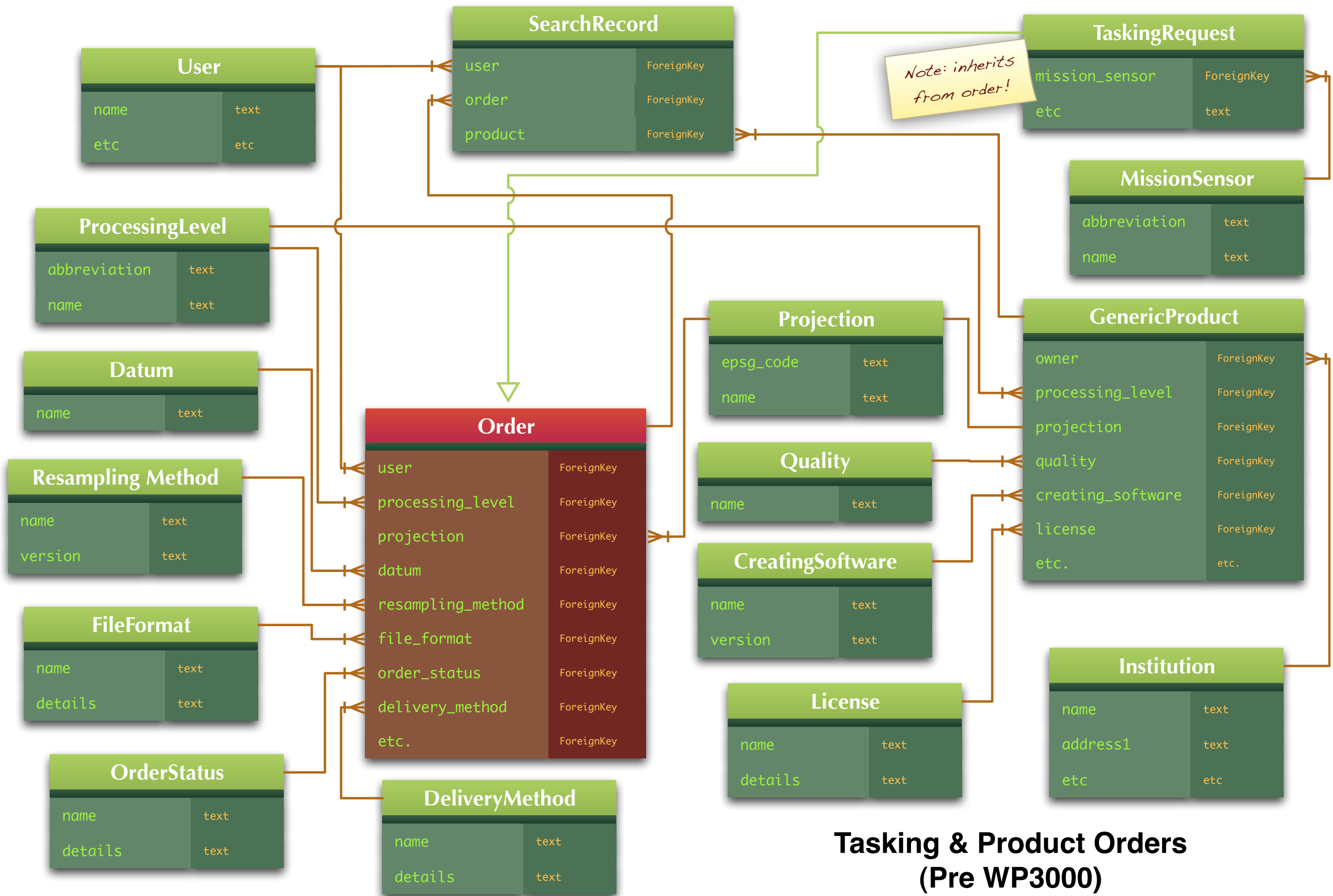
*e.g. AVHR,
MSS etc.*

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

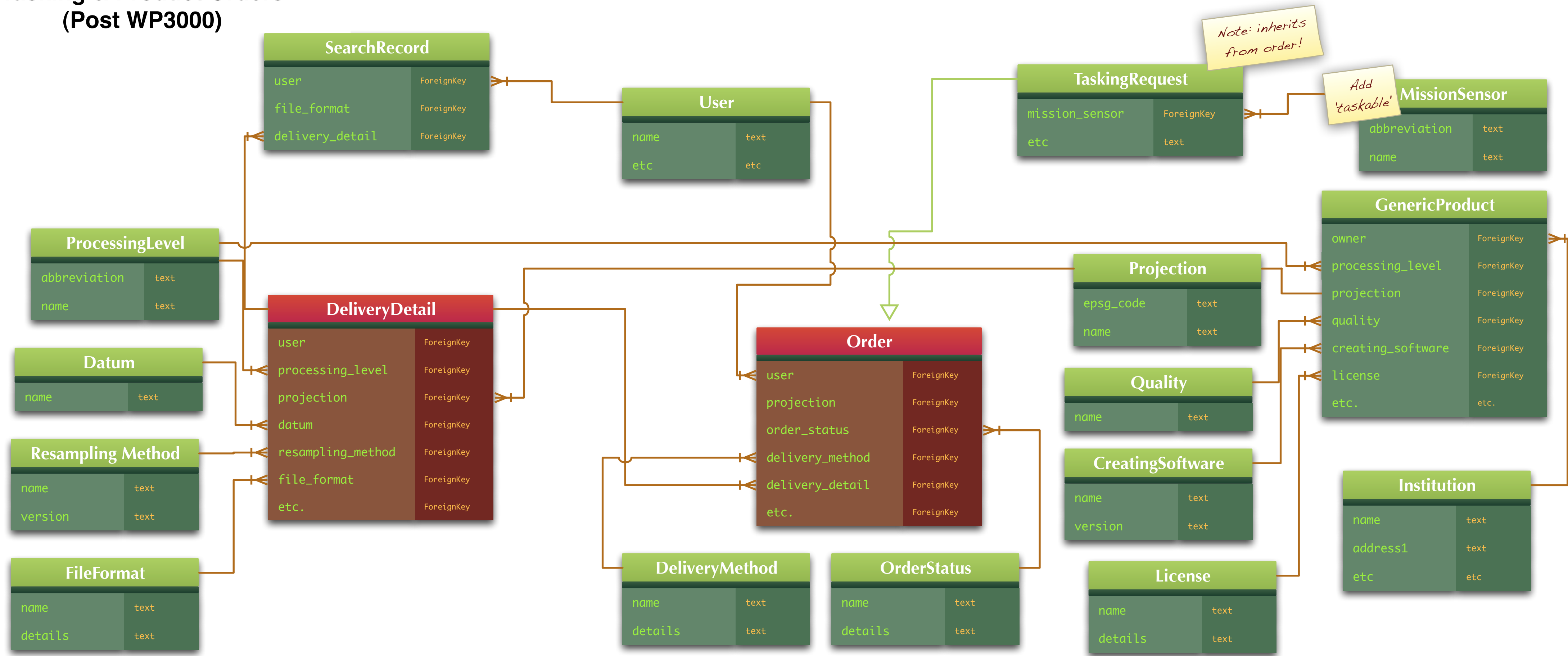
 New Items

* 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

