

Software Architecture Overview

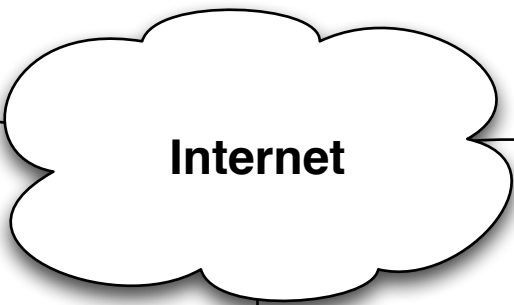


Network Architecture Overview

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

10

Vatum

10

File Format

Notes :

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 |
|------------|----------|

| | |
|----|--------|
| OK | Cancel |
|----|--------|

Advanced Search

*Note: * items mandatory*

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 0% 100%

Acquisition Angle Min

Max

Geometric Accuracy*

Bands

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 | |

Add
Remove

Date range(s)*

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

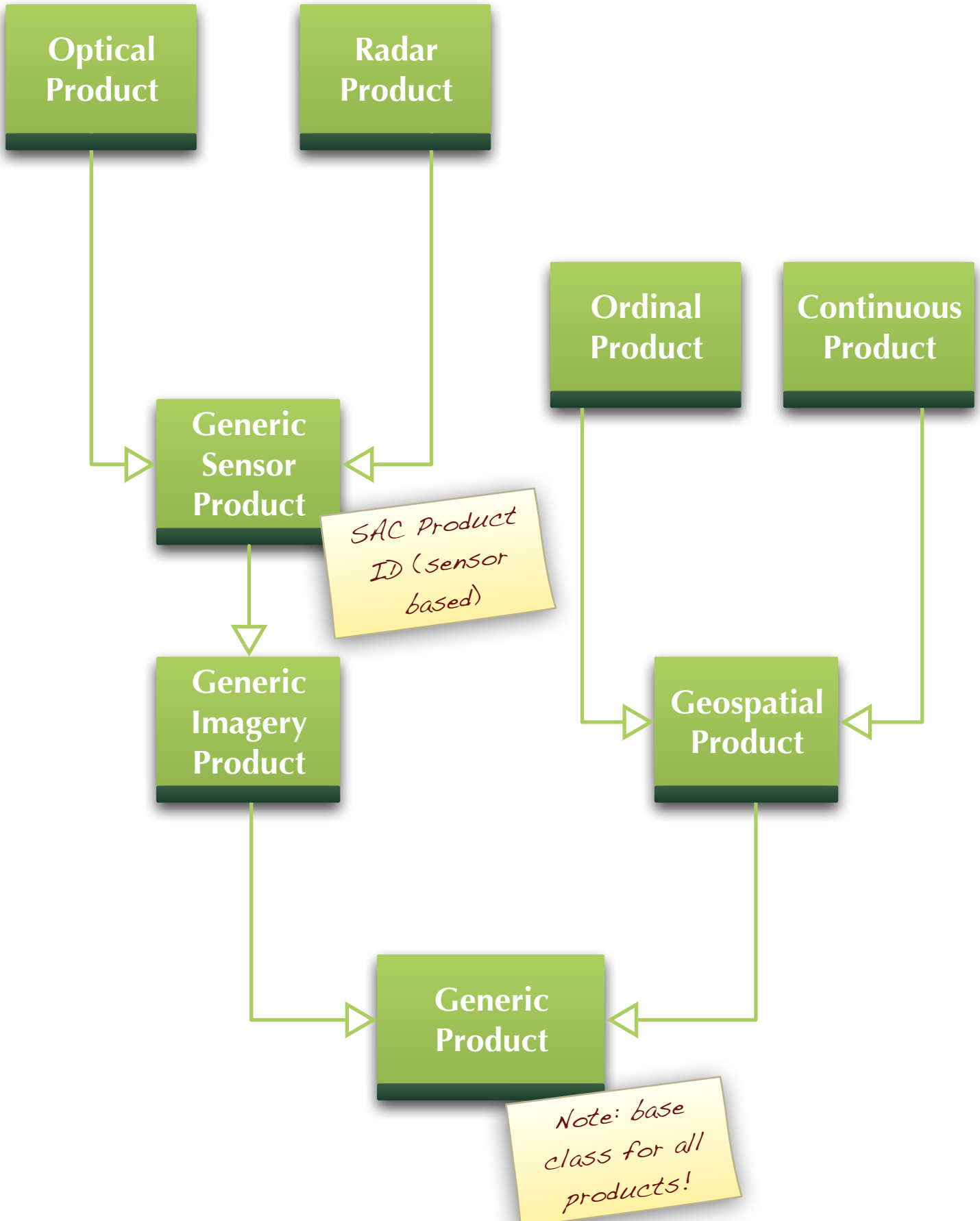
**<1m, 1-7m, 7-25m,
25-70m, 70-1km**

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

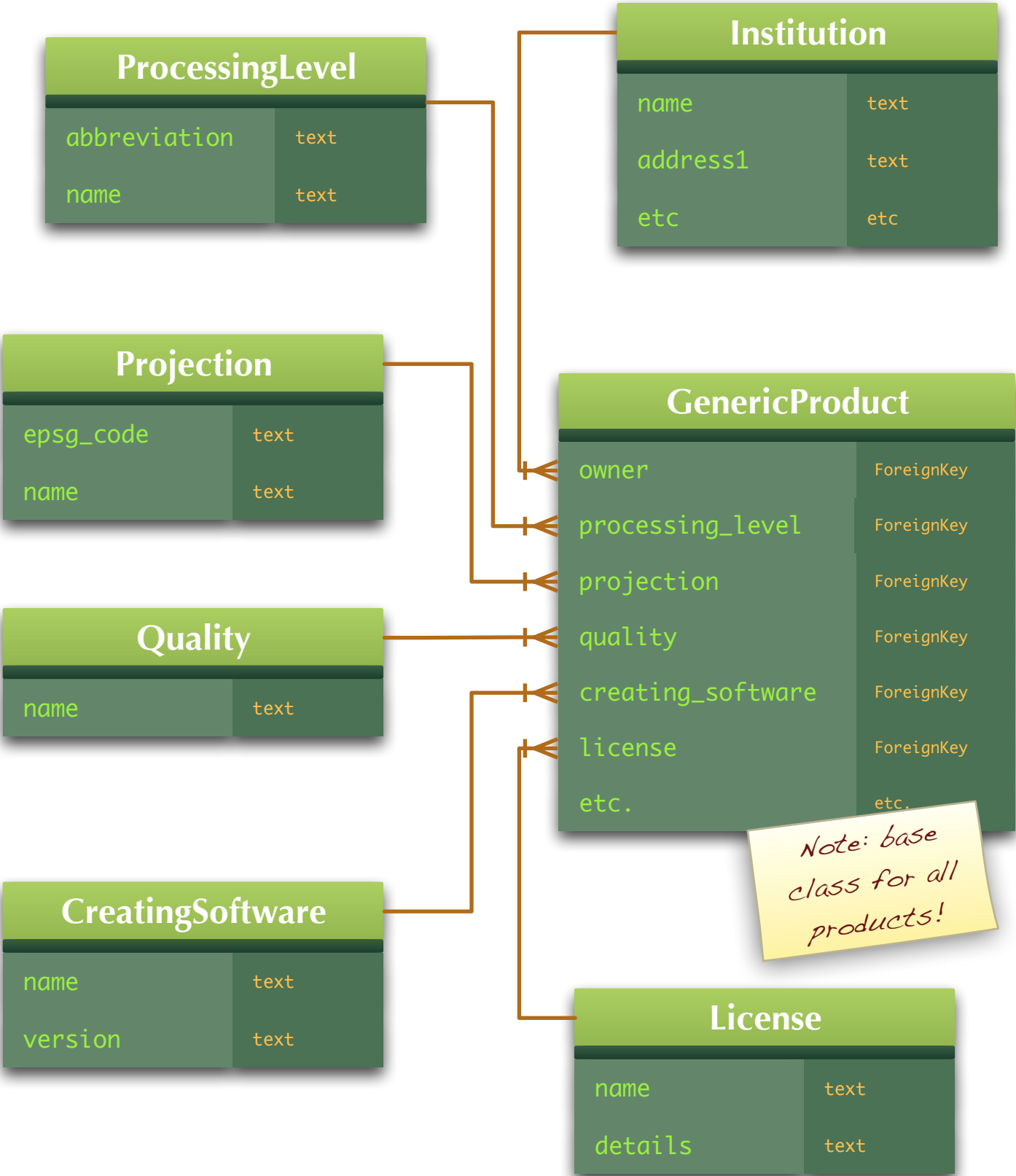
**Optical, Generic Imagery,
Radar, GeoSpatial**

**Free, Government,
Commercial, Any**

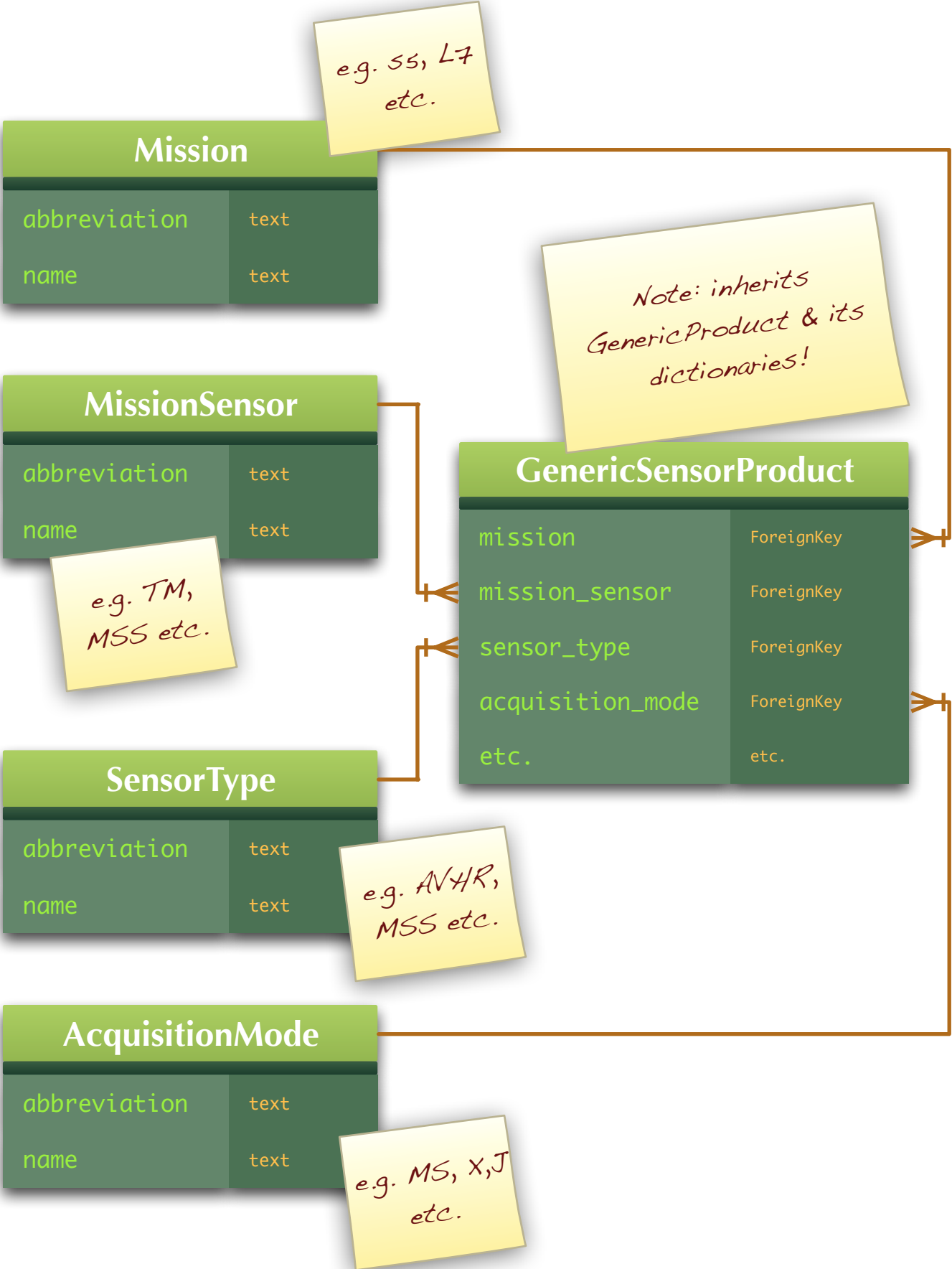
Product Heirarchy



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 |

*e.g. SS, L7
etc.*

| MissionGroup | |
|--------------|------|
| name | text |

*e.g.
Landsat,
NOAA etc.*

| SensorType | |
|----------------|------------|
| mission_sensor | ForeignKey |
| abbreviation | text |
| name | text |

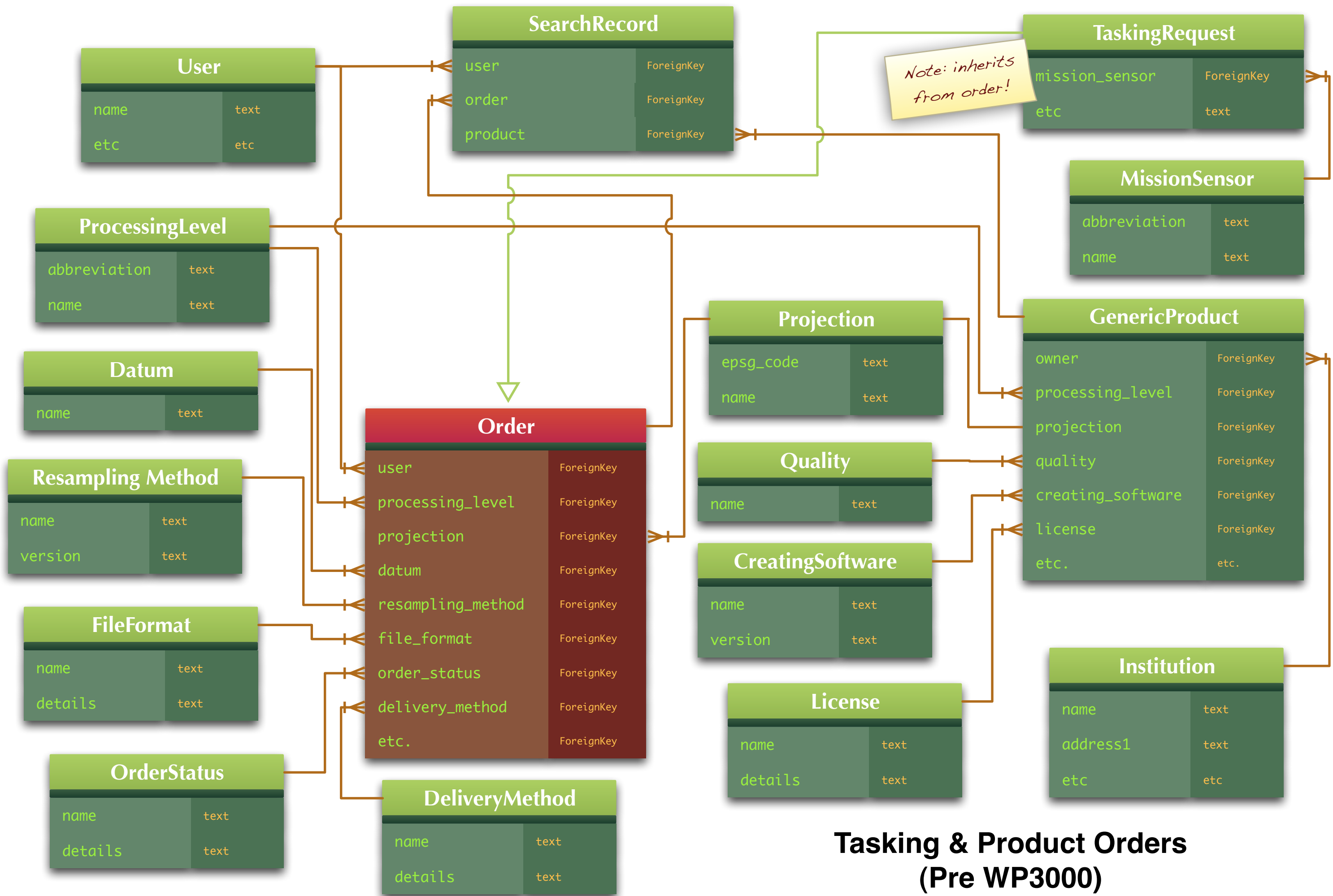
*e.g. AVHR,
MSS etc.*

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

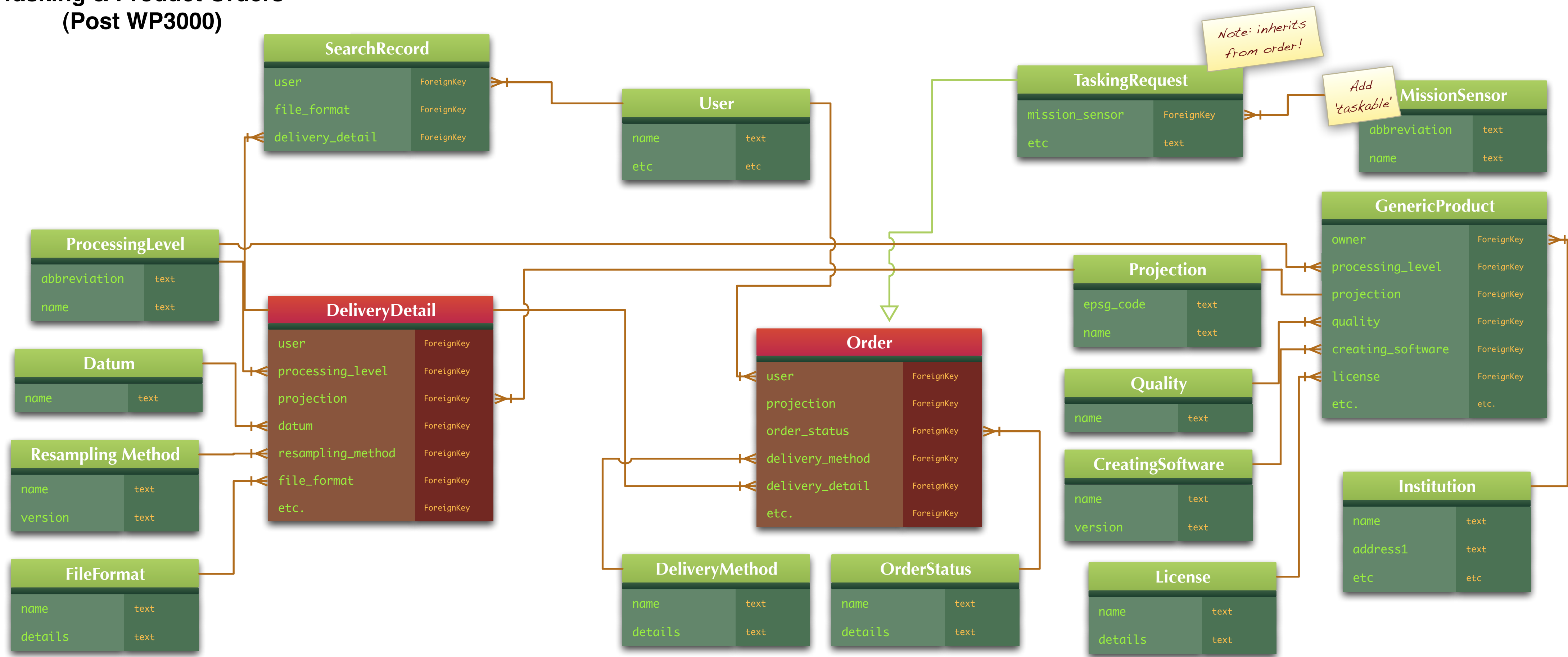
 New Items

* 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

