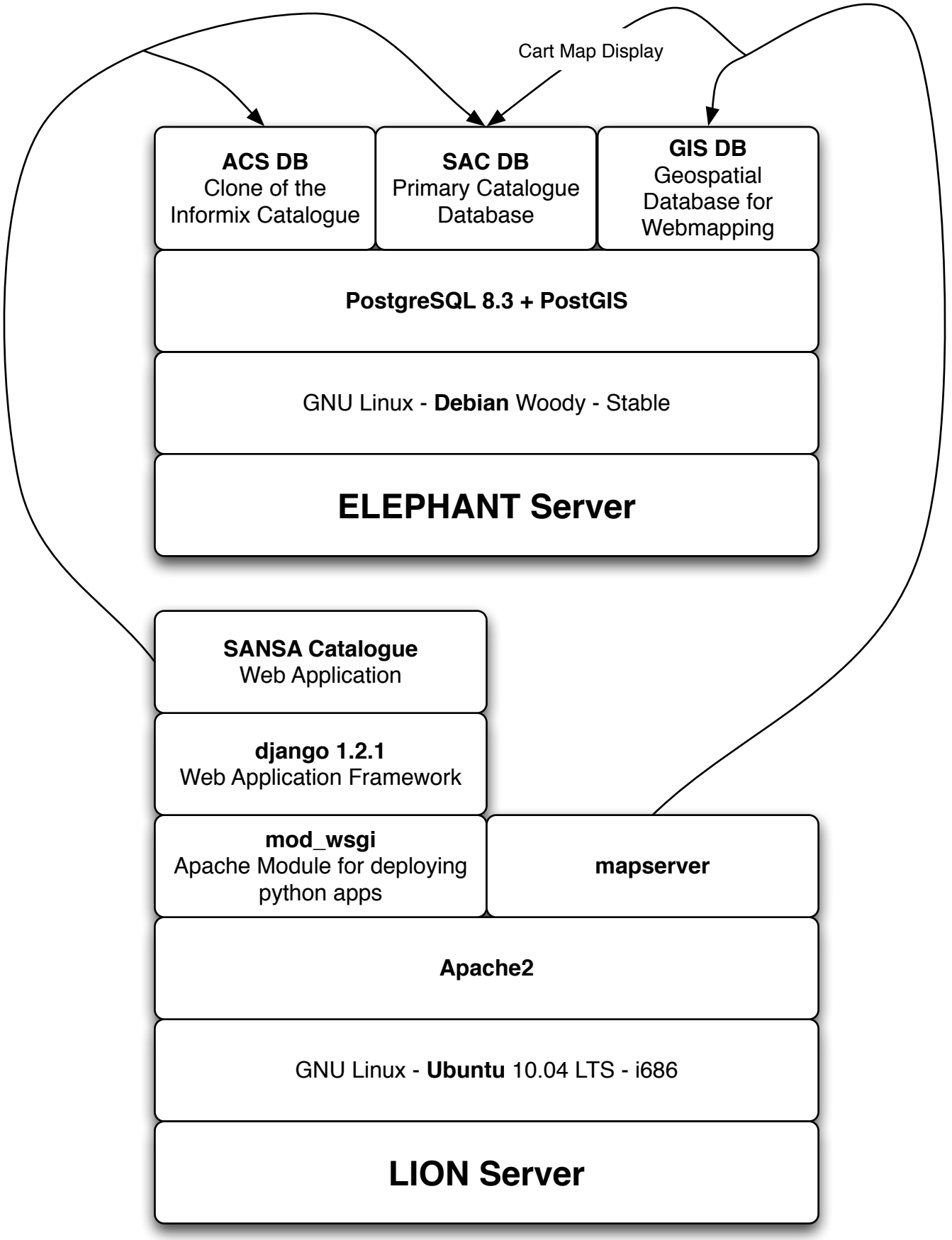
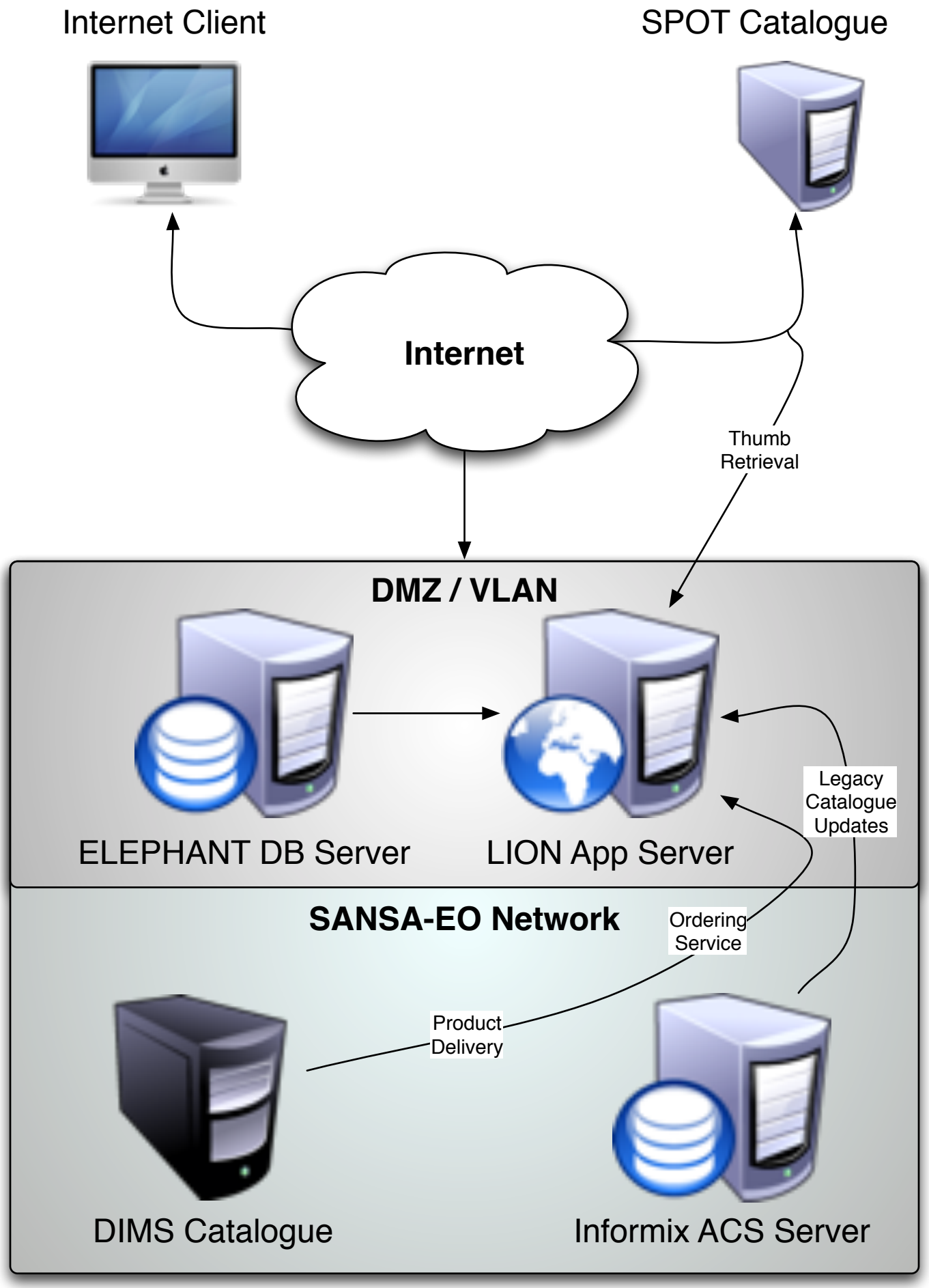
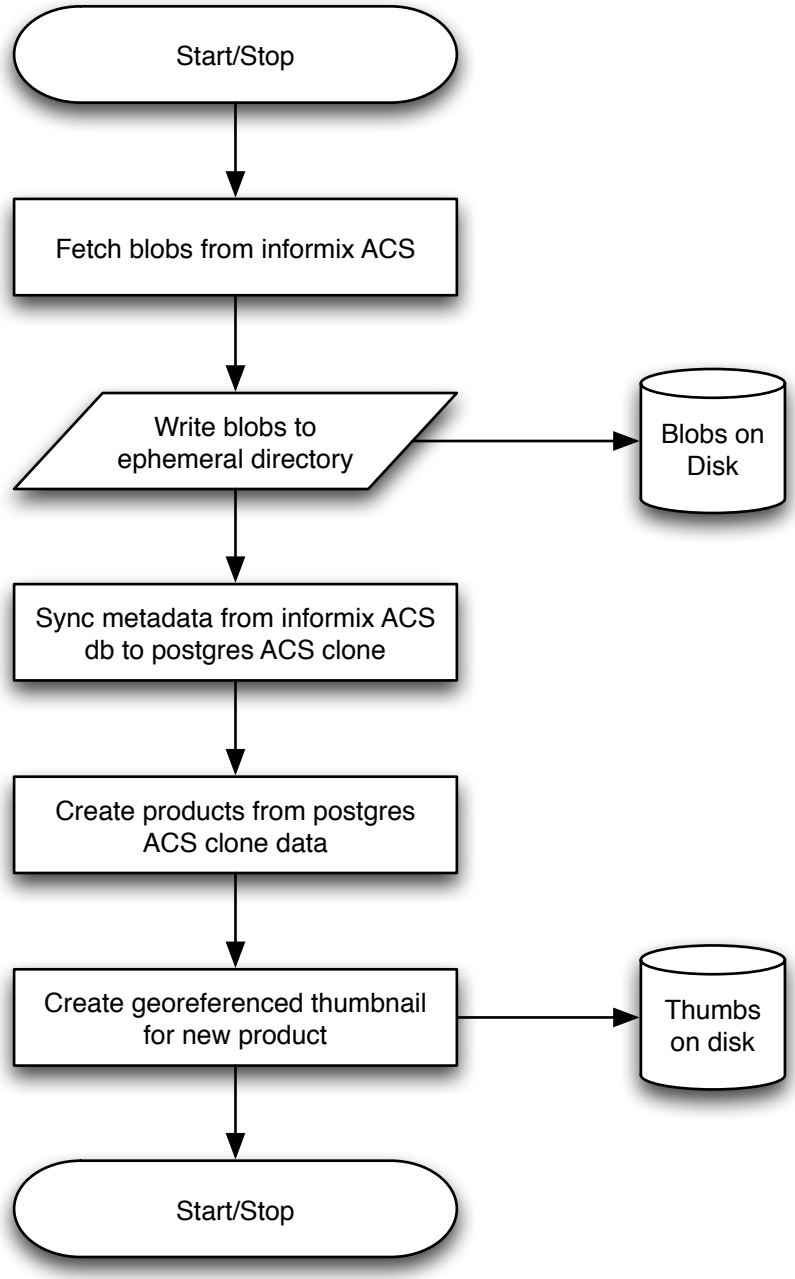
Software Architecture Overview

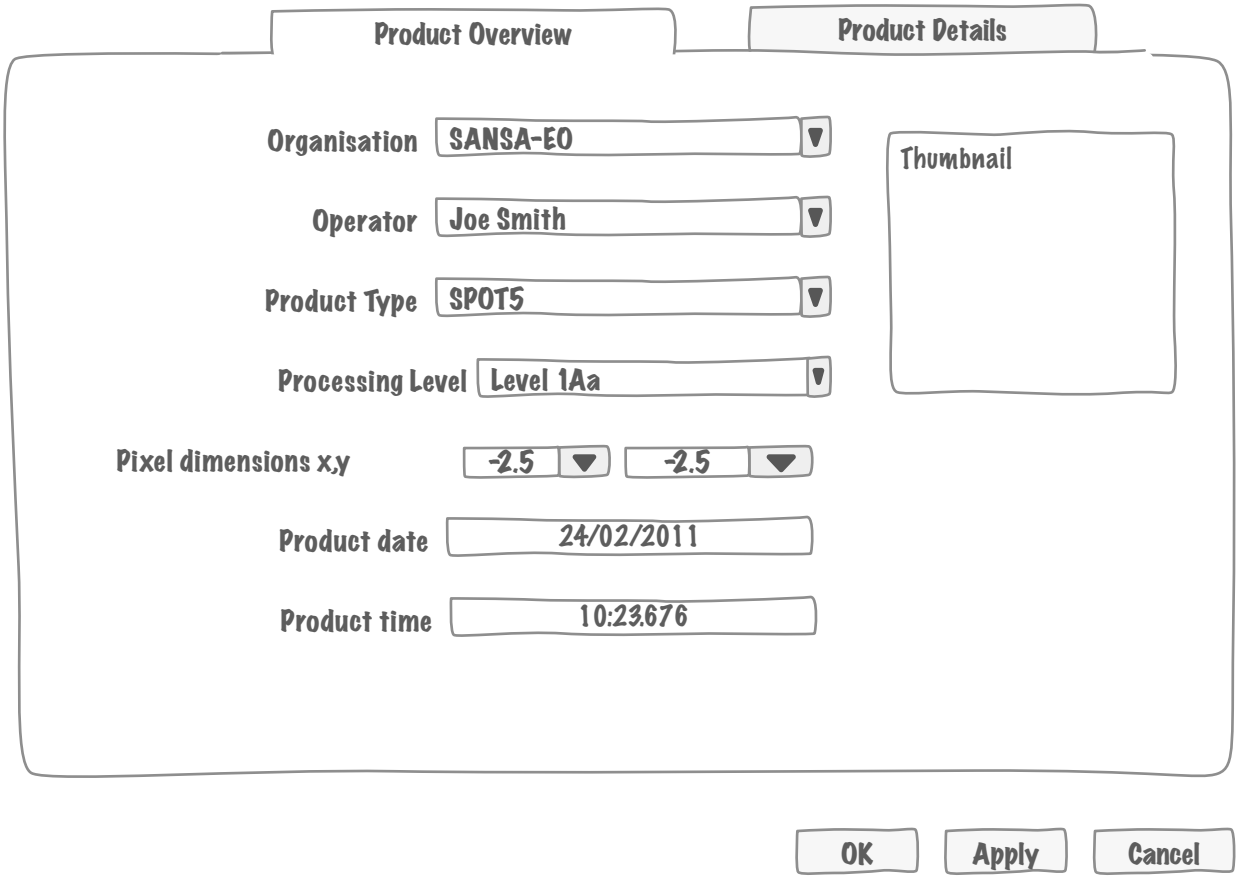


Network Architecture Overview

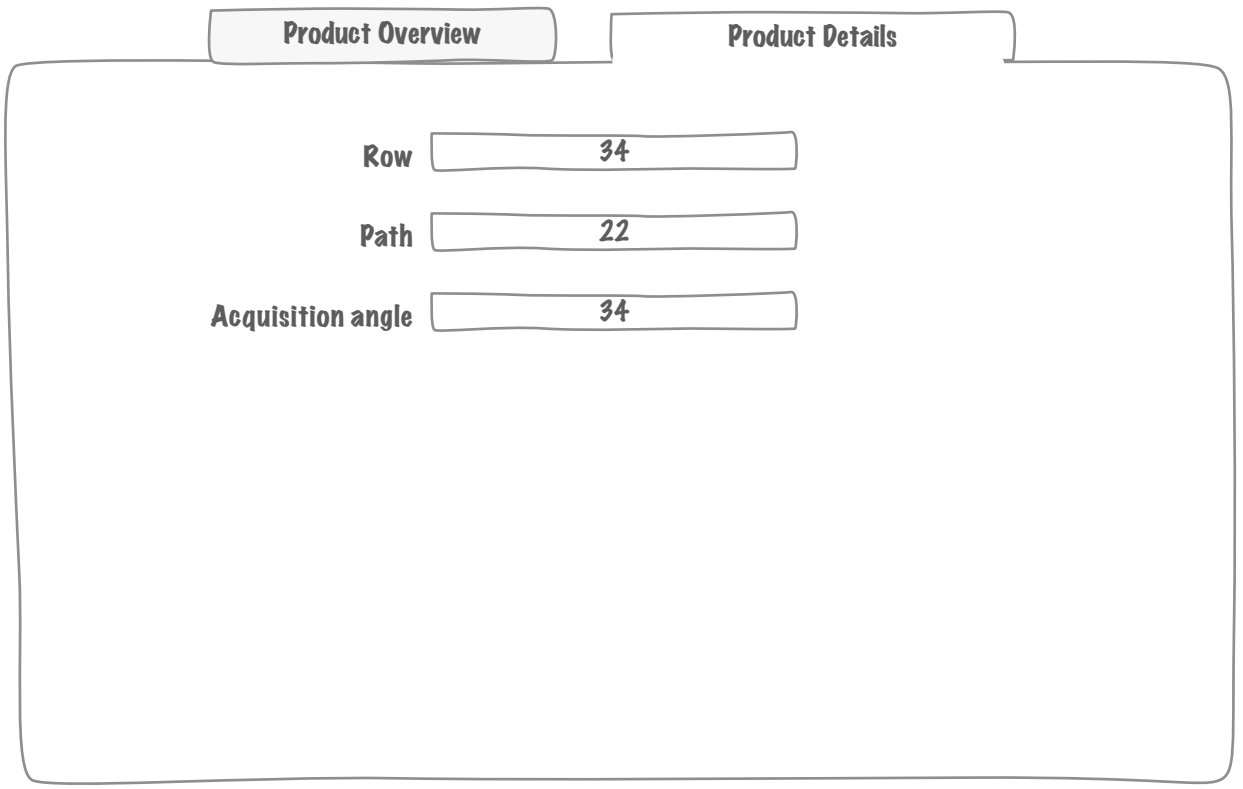


ACS Import Procedure

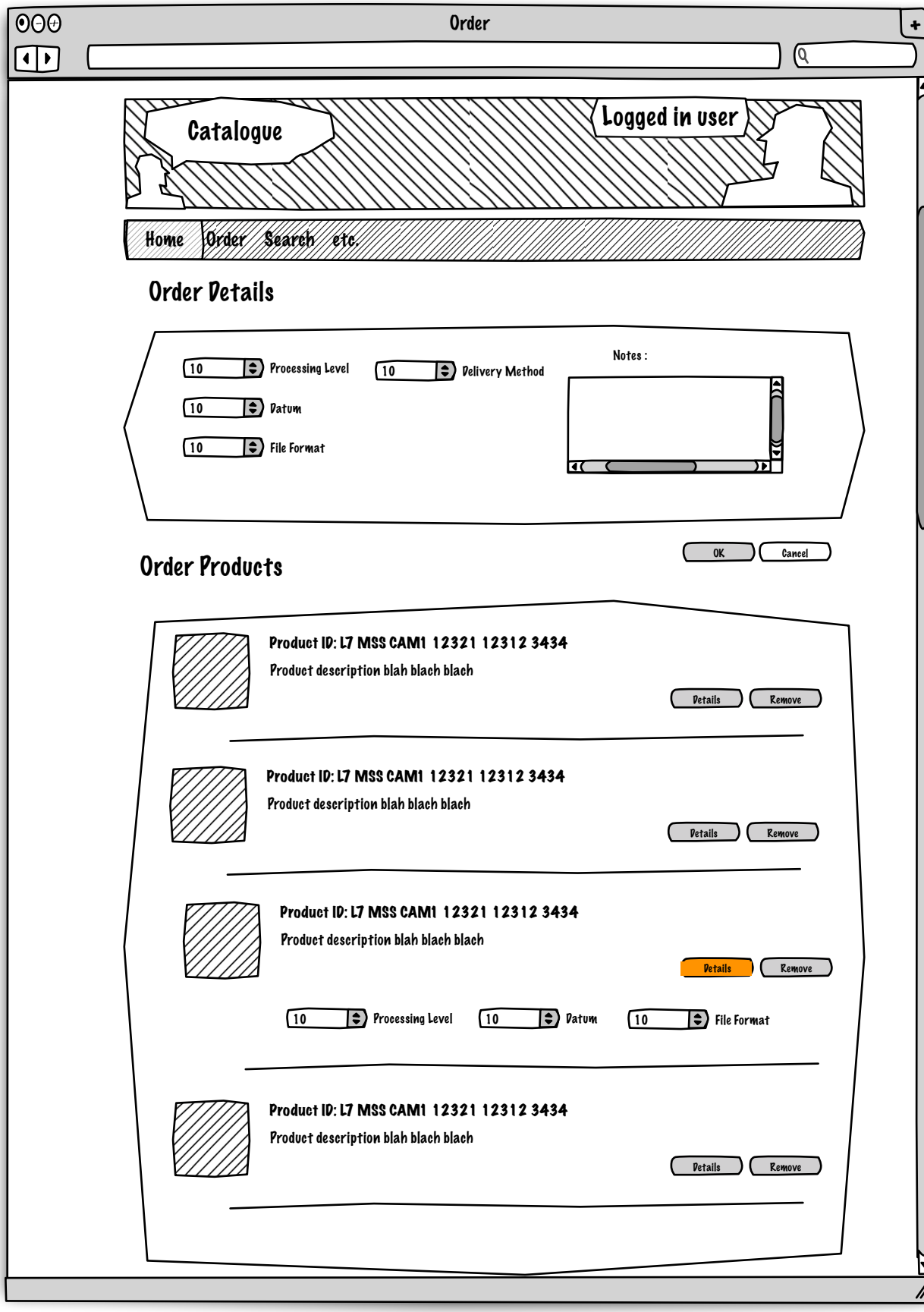


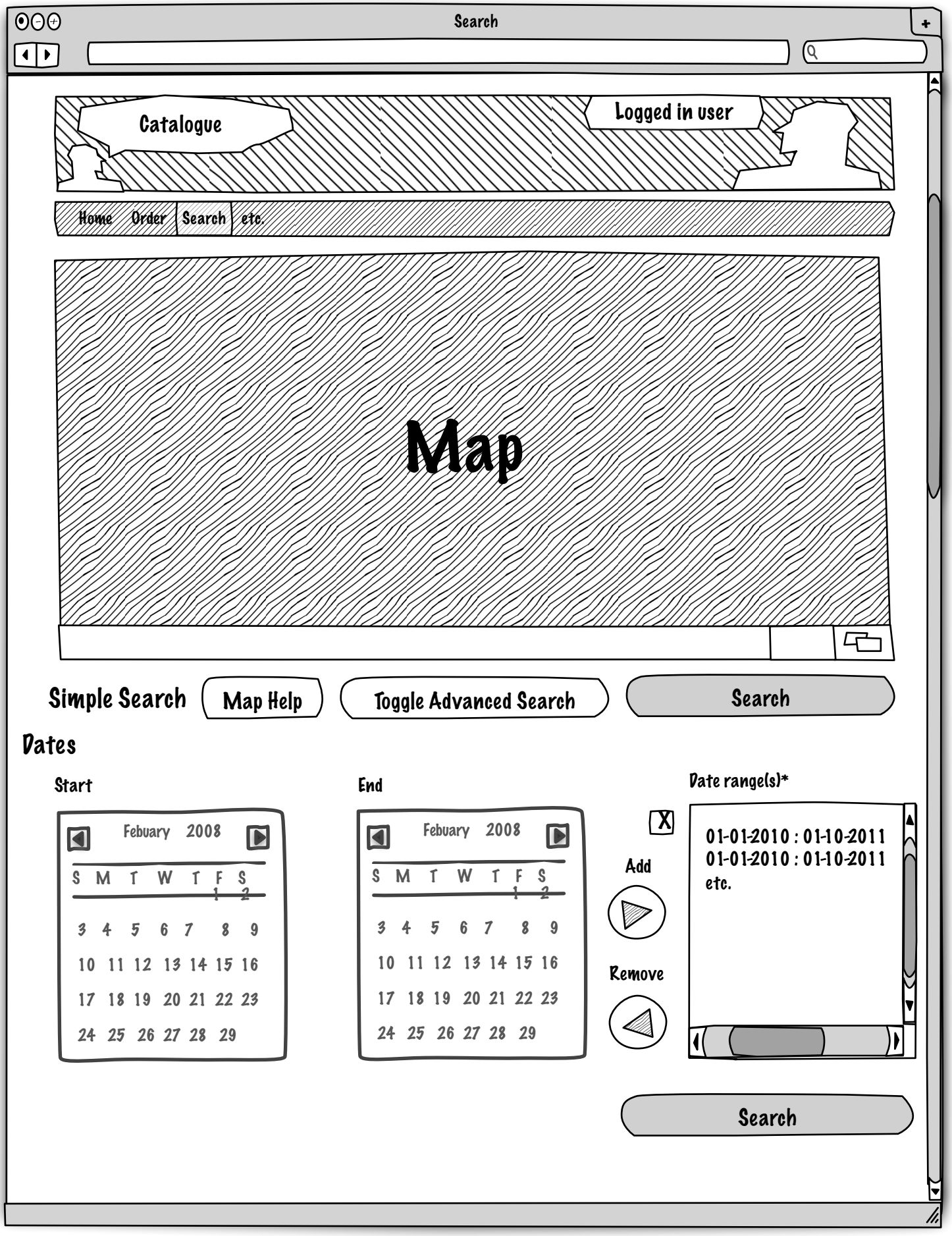

Product Overview
Product Details
Organisation
SANSA-EO
Operator
Joe Smith
Product Type
SPOT5
Processing Level
Level 1Aa
Pixel dimensions x,y
-2.5
-2.5
Product date
24/02/2011
Product time
10:23.676
Thumbnail

OK
Apply
Cancel


Product Overview
Product Details
Row
34
Path
22
Acquisition angle
34


OK
Apply
Cancel


Order
Catalogue
Logged in user
Home
Order
Search
etc.
Order Details
10
Processing Level
10
Delivery Method
Notes :
10
Datum
10
File Format
OK
Cancel
Order Products
Product ID: L7 MSS CAM1 12321 12312 3434
Product description blah blach blach
Details
Remove
Product ID: L7 MSS CAM1 12321 12312 3434
Product description blah blach blach
Details
Remove
Product ID: L7 MSS CAM1 12321 12312 3434
Product description blah blach blach
Details
Remove
10
Processing Level
10
Datum
10
File Format
Product ID: L7 MSS CAM1 12321 12312 3434
Product description blah blach blach
Details
Remove


Search
Catalogue
Logged in user
Home
Order
Search
etc.
Map
Simple Search
Map Help
Toggle Advanced Search
Search
Dates
Start
Febuary 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
Febuary 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.
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

Row: [12,20]

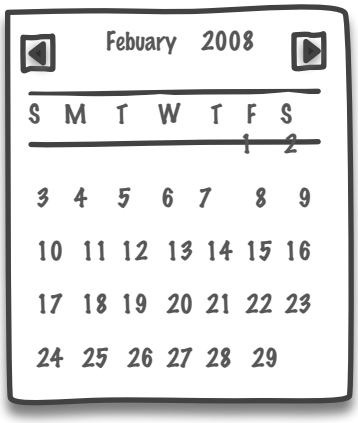
Path: [14,12,33,9]

Processing

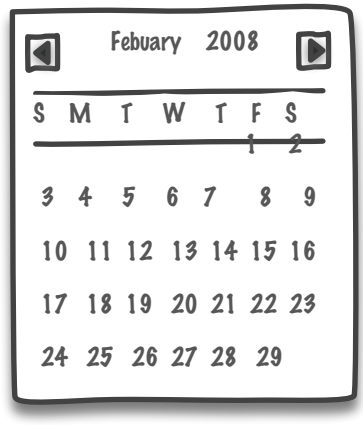
Level: L1Aa

Dates

Start



End



Add

Remove

Date range(s)*

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

OK | Cancel

Search

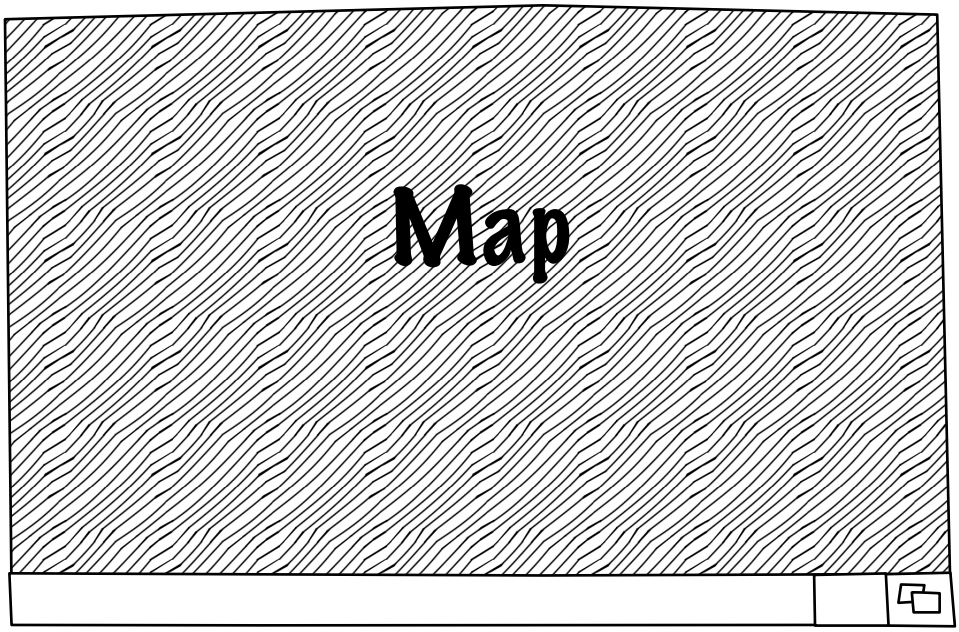
Catalogue

Logged in user

Home Order Search etc.

Mission Sensor Type Mode Row Path Date Level [x]

L5 MS MSS MSS 10 10 L1Aa L1Aa Applu Clear



New Search from thiis one

Filter this search

Advanced Search

Map Help | Toggle 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.

Type(s)
- MSS
- Pan
- etc.

Mode(s)
- MS
- HRT
- etc.

Note: select nothing = use all

Image Details

Cloud Cover 0% 100%

Acquisition Angle Min [10] Max [14.5]

Spatial Resolution* [1 - 7m] Bands [Panchromatic]

Note: * items mandatory

Row & Path

Row [12,20]

Path [14,12,339]

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

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

Febuary 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

Febuary 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.

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.]

Type(s) [SAR, ERS, etc.]

Mode(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]

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

Upload Shapefile | Upload KML

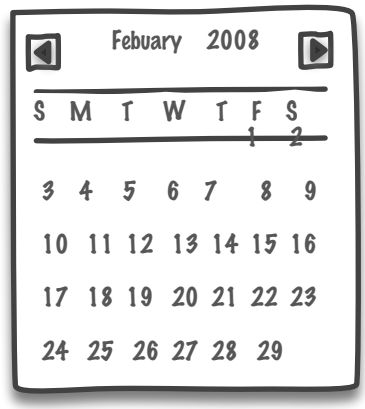
Position & Radius or Box [12,20]

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

Dates

Start

End



Add

Remove

Date range(s)*

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]

Bands [Panchromatic]

Processing

Level(s)

L1a
L1b
etc.

Geometry

Upload Shapefile

Upload KML

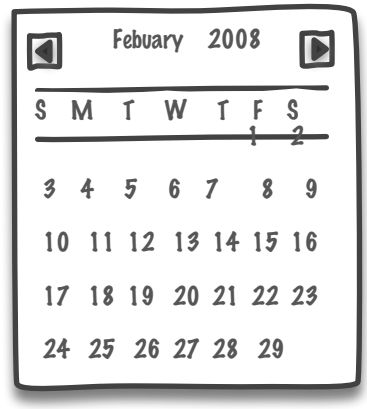
Position & Radius or Box [12,20]

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

Dates

Start

End



Add

Remove

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

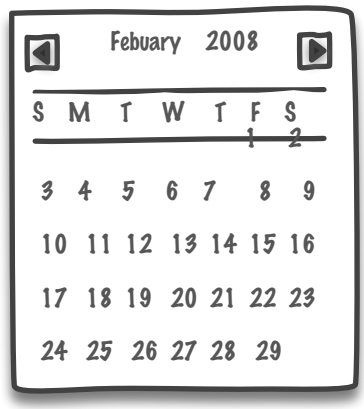
Upload KML

Position & Radius or Box [12,20]

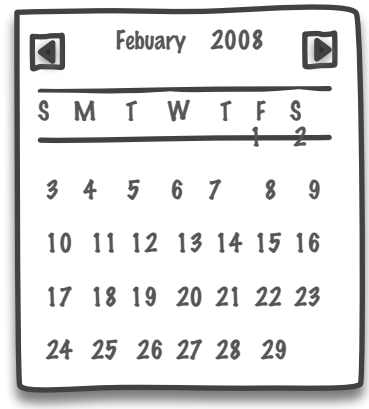
Allowed formats: Point with radius e.g. 22,-32,100m, BBox e.g. 1,1,33

Dates

Start

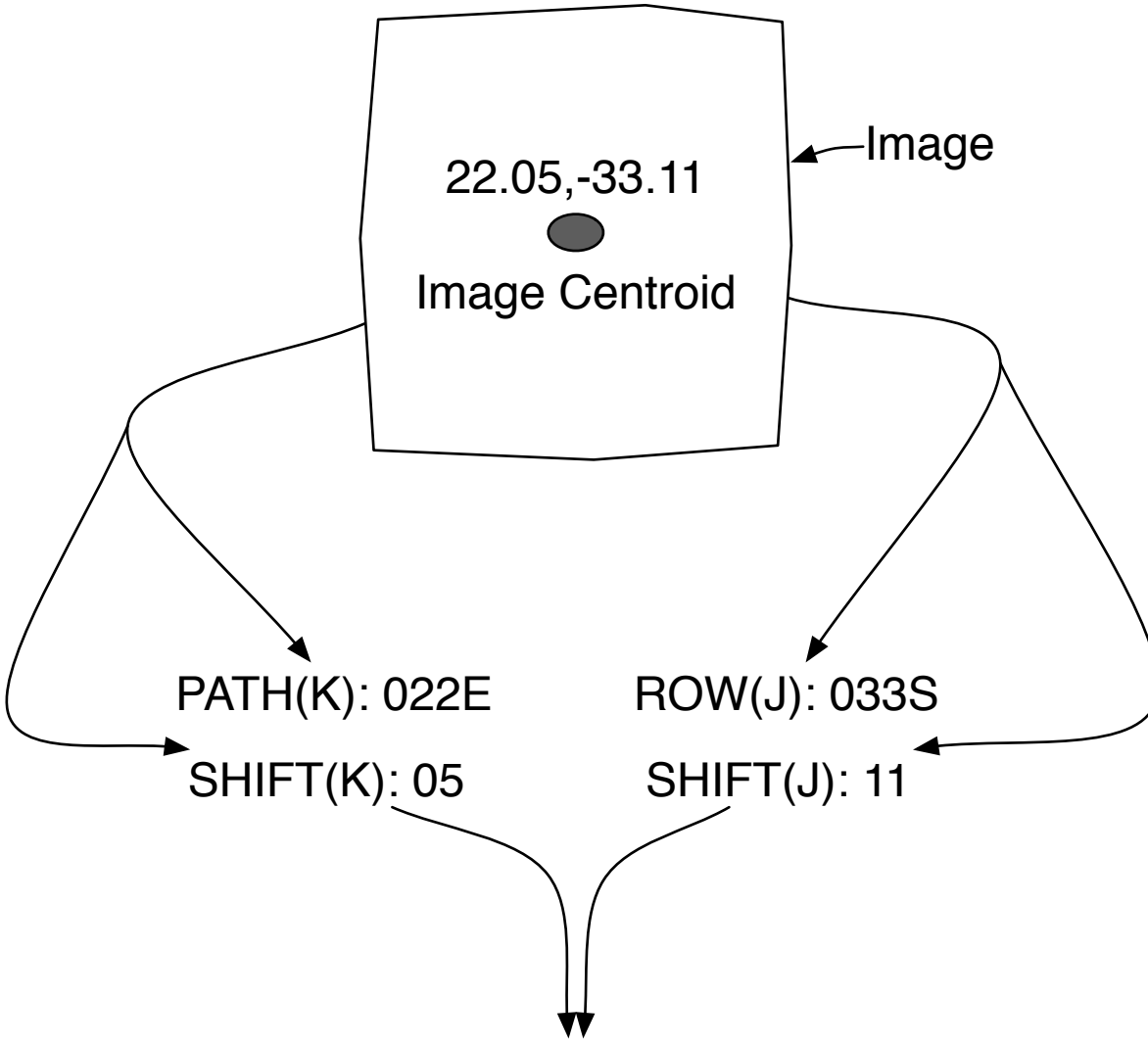


End



Search

Centroid Derived Row/Path for product ID's



Resulting Row/Path Component in Product ID:
022E_05_033S_11

Catalogue Monthly Summary — June 2011

Order Overview

New orders placed this month	10
All currently active orders (not month specific)	20
Orders completed this month	5
Orders cancelled this month	4
Synopsis: Summary of orders and their status	

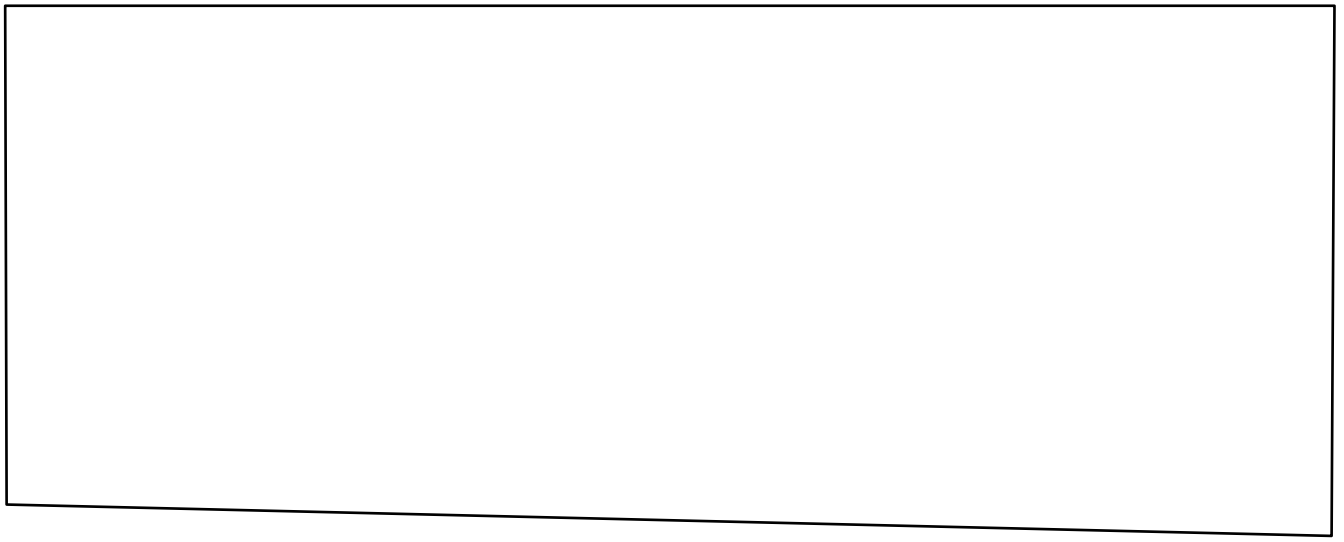
Sensor Based Products Overview

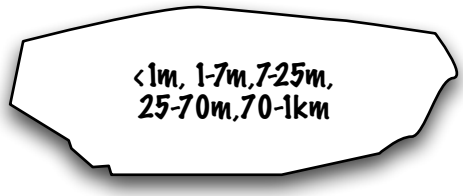
Landsat5	10
New and existing orders with status 'placed'	20
New and existing orders completed	5
Orders cancelled	4
etc.	

Searches by country of user

South Africa	100
Mongolia	20
Latvia	5
Nigeria	4
etc.	

Search intensity map



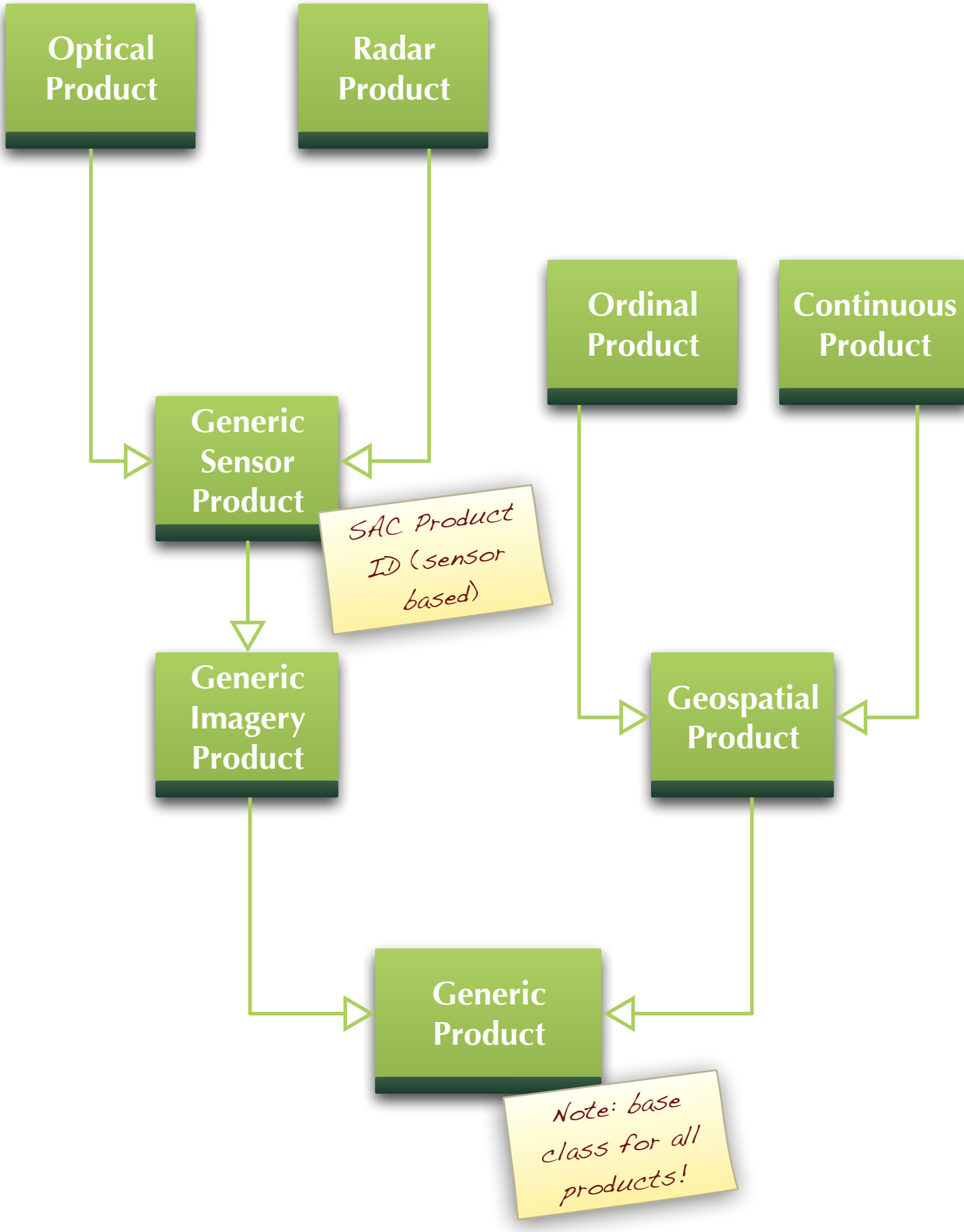

<1m, 1-7m,7-25m,
25-70m,70-1km


Pan, True Colour,
Multispectral, Superspectral,
Hyperspectral

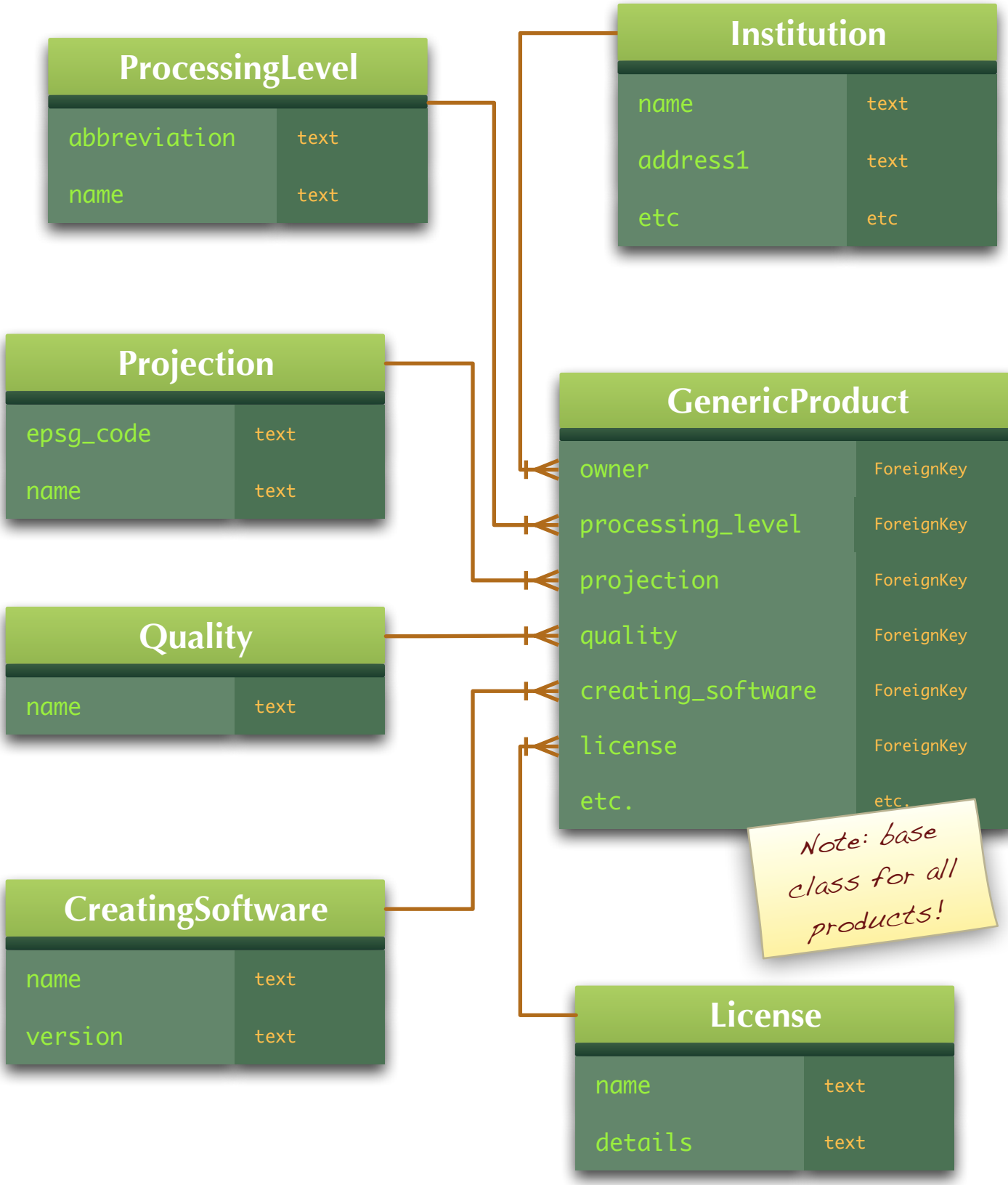

Optucal, Generic Imagery,
Radar, GeoSpatial


Free, Government,
Commercial, Any

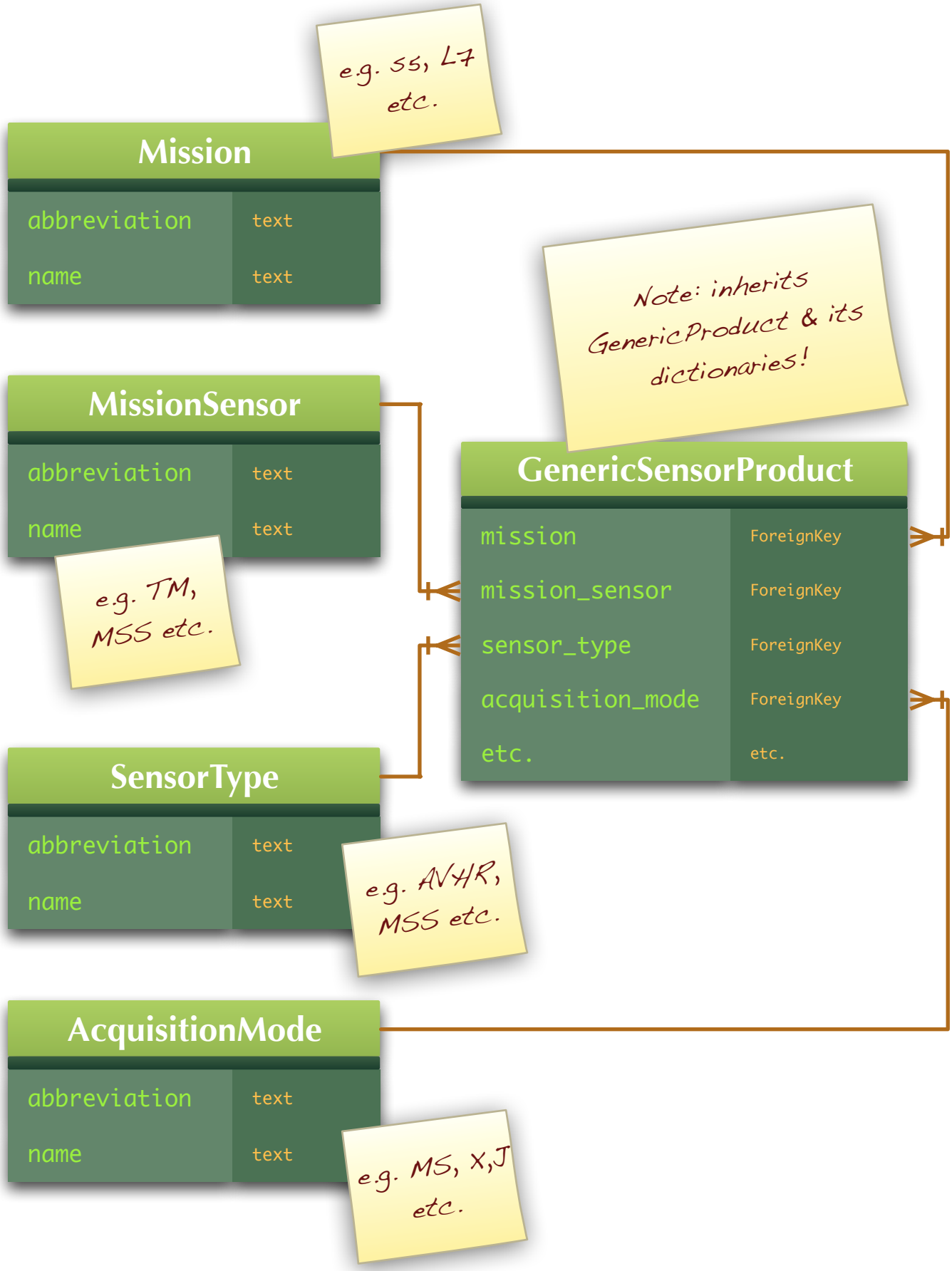
Product Heirarchy



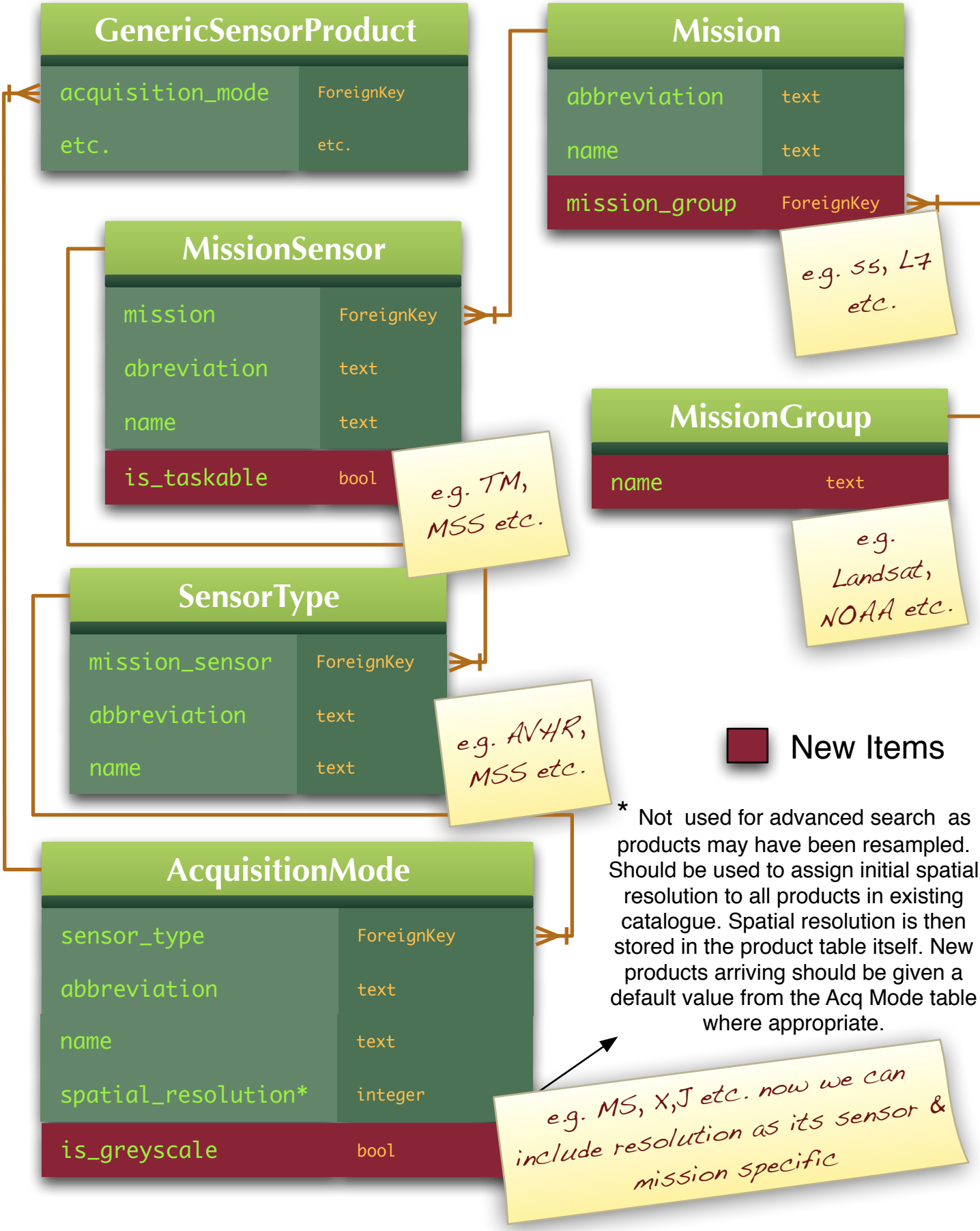
Generic Product Dictionaries



Generic Sensor Product Dictionaries (Pre-refactoring)



Generic Sensor Product Dictionaries



User

name	text
etc	etc

SearchRecord

user	ForeignKey
order	ForeignKey
product	ForeignKey

Note: inherits from order!

TaskingRequest

mission_sensor	ForeignKey
etc	text

MissionSensor

abbreviation	text
name	text

ProcessingLevel

abbreviation	text
name	text

Datum

name	text

Projection

epsg_code	text
name	text

GenericProduct

owner	ForeignKey
processing_level	ForeignKey
projection	ForeignKey
quality	ForeignKey
creating_software	ForeignKey
license	ForeignKey
etc.	etc.

Order

user	ForeignKey
processing_level	ForeignKey
projection	ForeignKey
datum	ForeignKey
resampling_method	ForeignKey
file_format	ForeignKey
order_status	ForeignKey
delivery_method	ForeignKey
etc.	ForeignKey

Quality

name	text

Resampling Method

name	text
version	text

CreatingSoftware

name	text
version	text

FileFormat

name	text
details	text

License

name	text
details	text

Institution

name	text
address1	text
etc	etc

OrderStatus

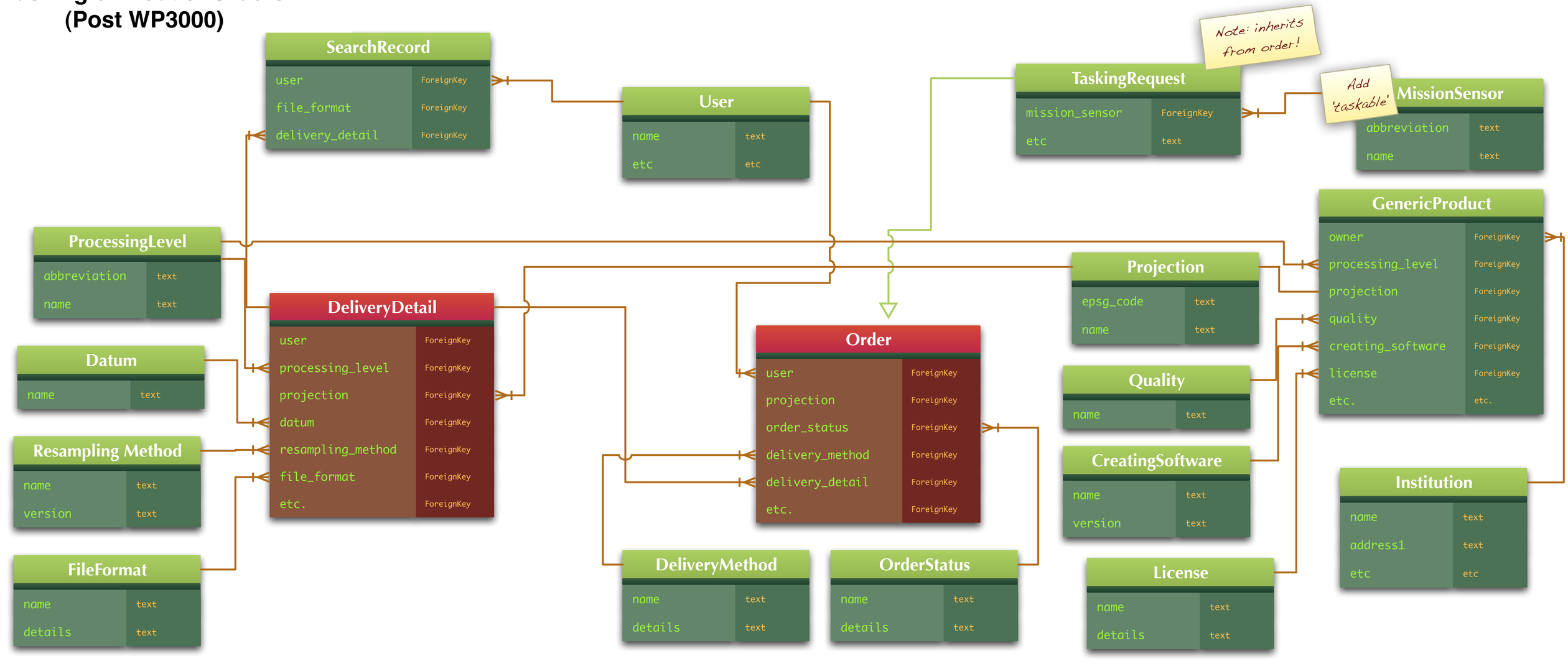
name	text
details	text

DeliveryMethod

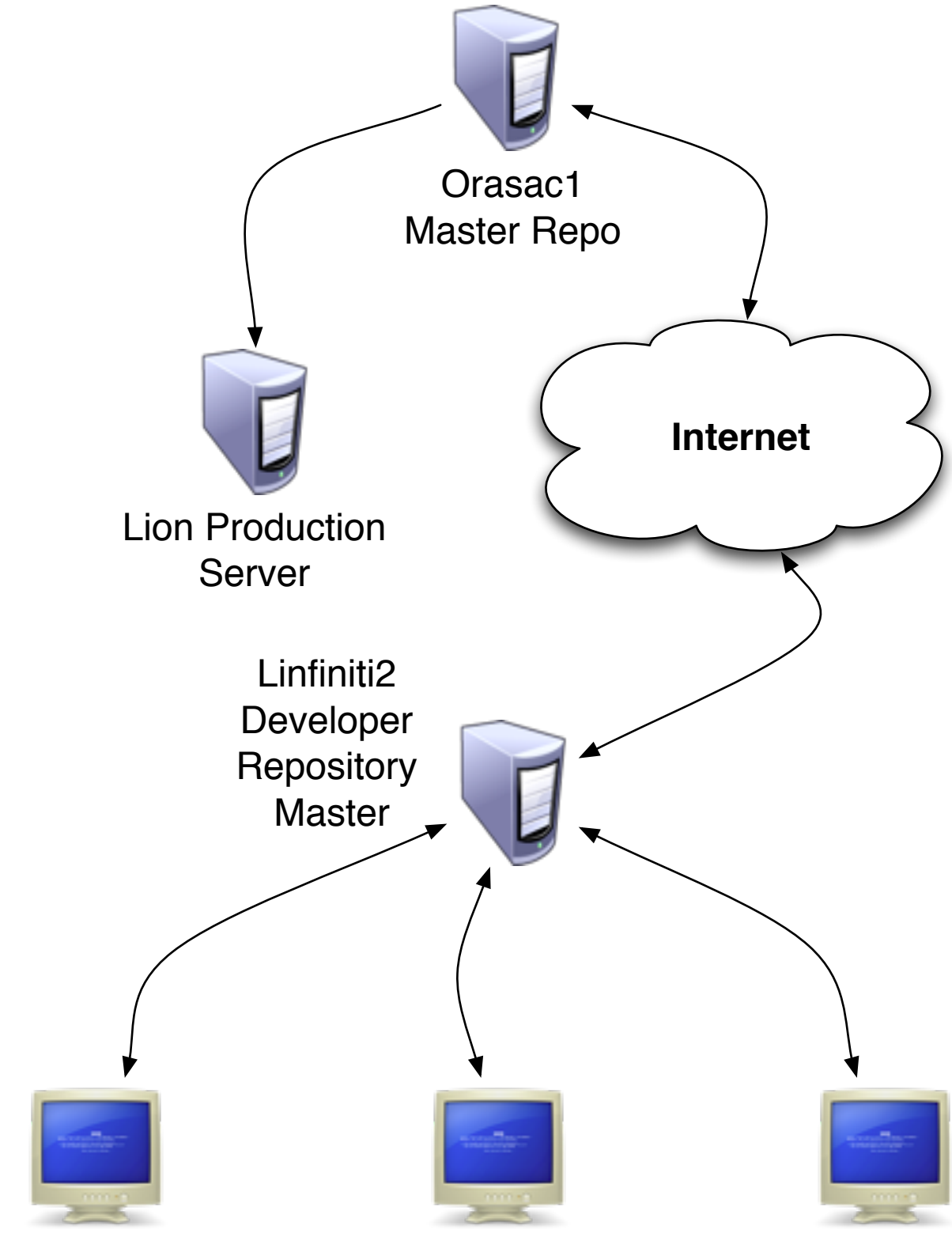
name	text
details	text

Tasking & Product Orders (Pre WP3000)

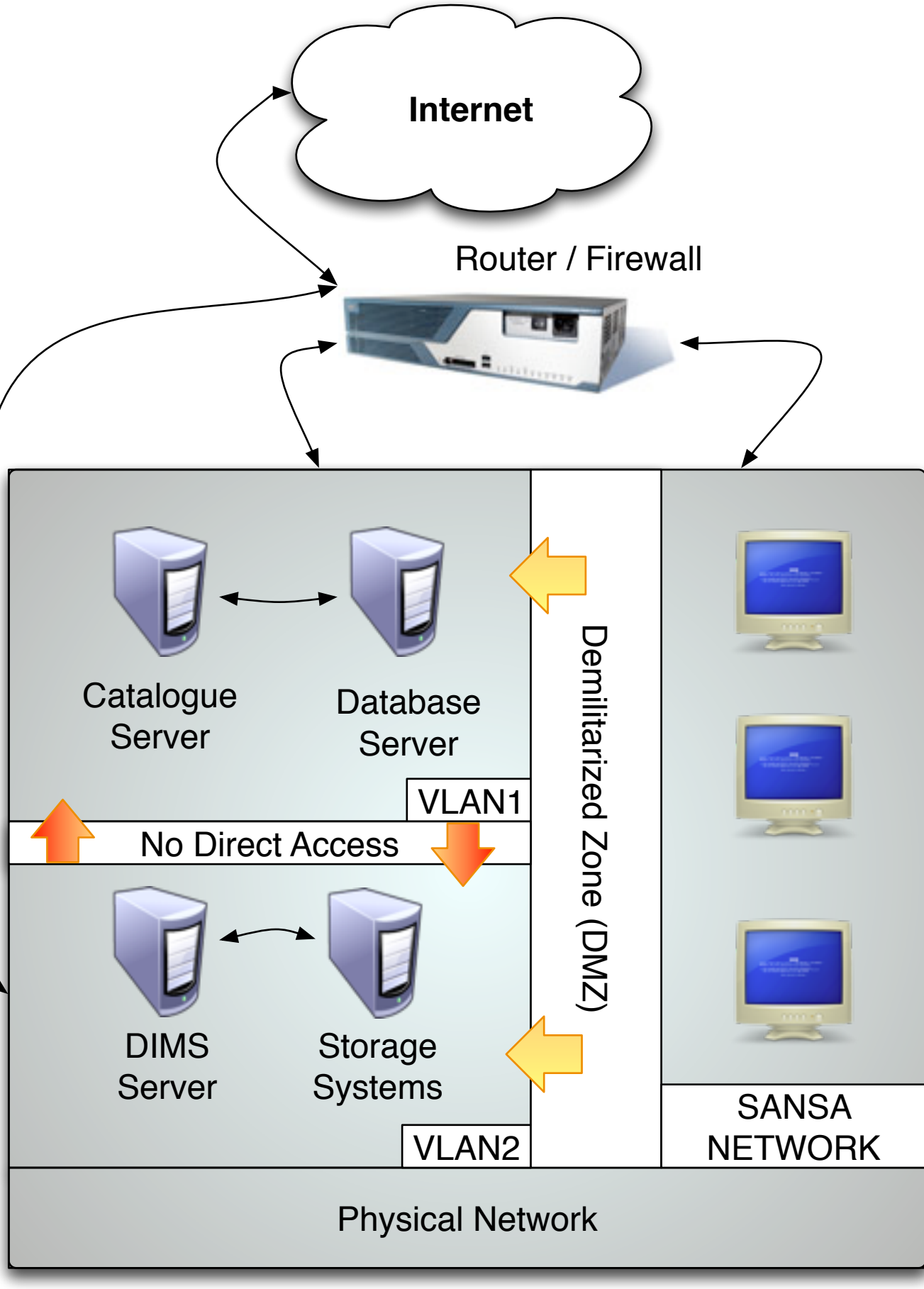
Tasking & Product Orders (Post WP3000)



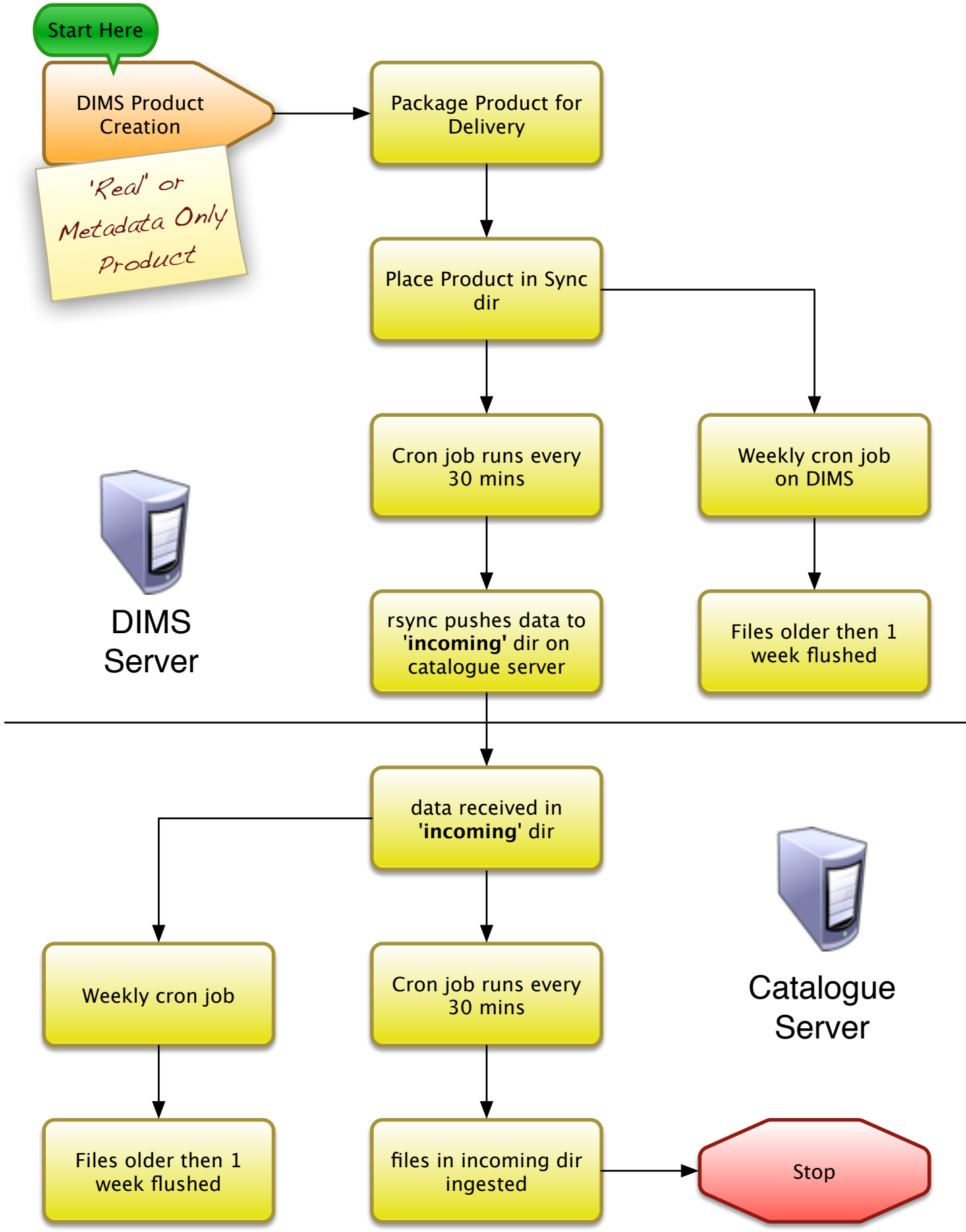
GIT Topology



Network Topology



Filedrops


Start Here
DIMS Product Creation
'Real' or Metadata Only Product
Package Product for Delivery
Place Product in Sync dir
Cron job runs every 30 mins
Weekly cron job on DIMS
DIMS Server
rsync pushes data to 'incoming' dir on catalogue server
Files older then 1 week flushed
data received in 'incoming' dir
Weekly cron job
Cron job runs every 30 mins
Catalogue Server
Files older then 1 week flushed
files in incoming dir ingested
Stop