

Current status and Plans At ESRF

Alex de Maria Antolinos
Software Engineer
Data Manager@Data Analysis Unit
Software Group
ESRF
21.10.1016

ICAT on Production@ESRF

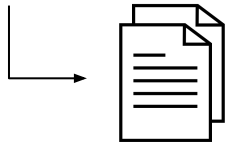


SPEC
Sequencer

PRODUCES



RAW DATA



RESULTS

SEND



Metadata Manager
Tango Control Device

SEND



Ingestor
Written in JAVA

SEND



ICAT 4.3
TOPCAT 1.1

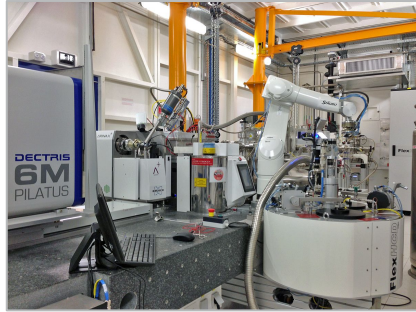
Fast Tomography Beamlines on Production

ID11
ID15
ID16A
ID16B

Stats since 18.July.2014

16980	Datasets
11499954	Datafiles
472000	Dataset Parameters
272	Users
2065	Samples

ICAT on Test@ESRF



SPEC
Sequencer

SEND



SEND



SEND



PRODUCES



File containing
RAW DATA



File containing
RESULTS

Metadata Manager
Tango Control Device

WRITES



HDF5 Master File

Ingestor
Written in JAVA

ICAT 4.3
TOPCAT 1.1

ICAT on Test@ESRF



**GENERIC API
SPEC
Sequencer**

PRODUCES



File containing
RAW DATA



File containing
RESULTS

SEND



Metadata Manager
Tango Control Device

SEND



Ingestor
Written in JAVA

SEND



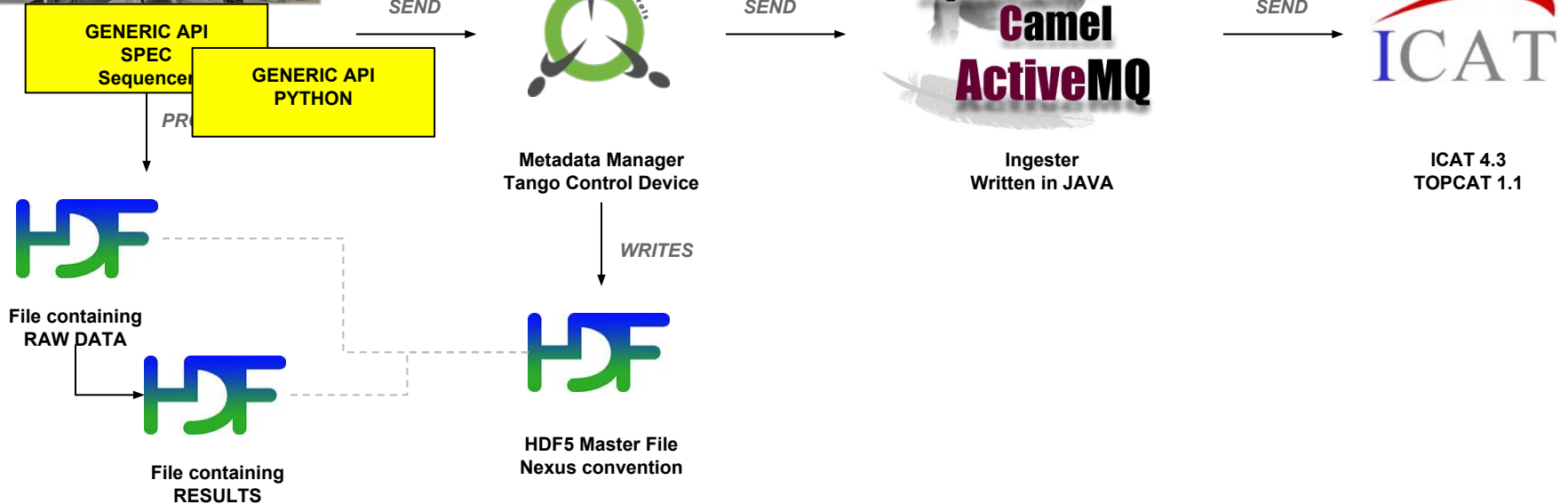
ICAT 4.3
TOPCAT 1.1

WRITES

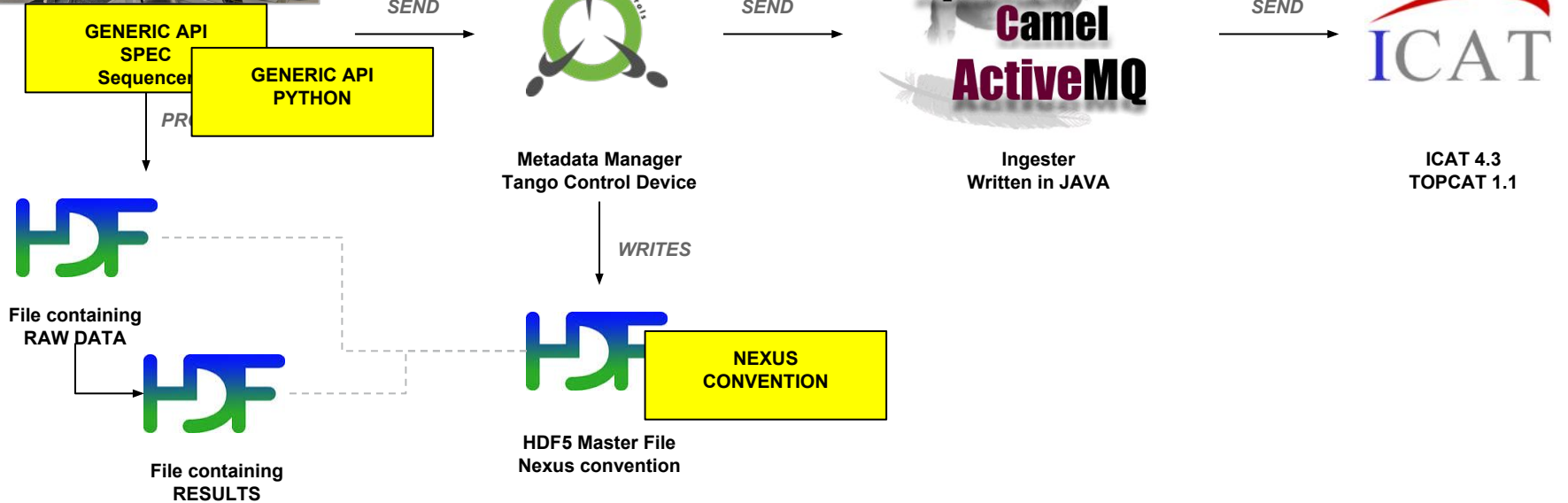


HDF5 Master File
Nexus convention

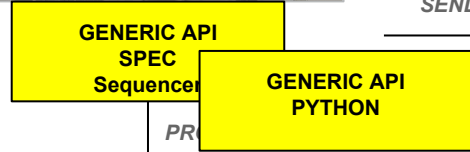
ICAT on Test@ESRF



ICAT on Test@ESRF



ICAT on Test@ESRF



SEND



SEND



SEND



Metadata Manager
Tango Control Device

Ingestor
Written in JAVA

ICAT 4.3
TOPCAT 1.1

WRITES



File containing
RAW DATA

CONVERT FILES
TO HDF5



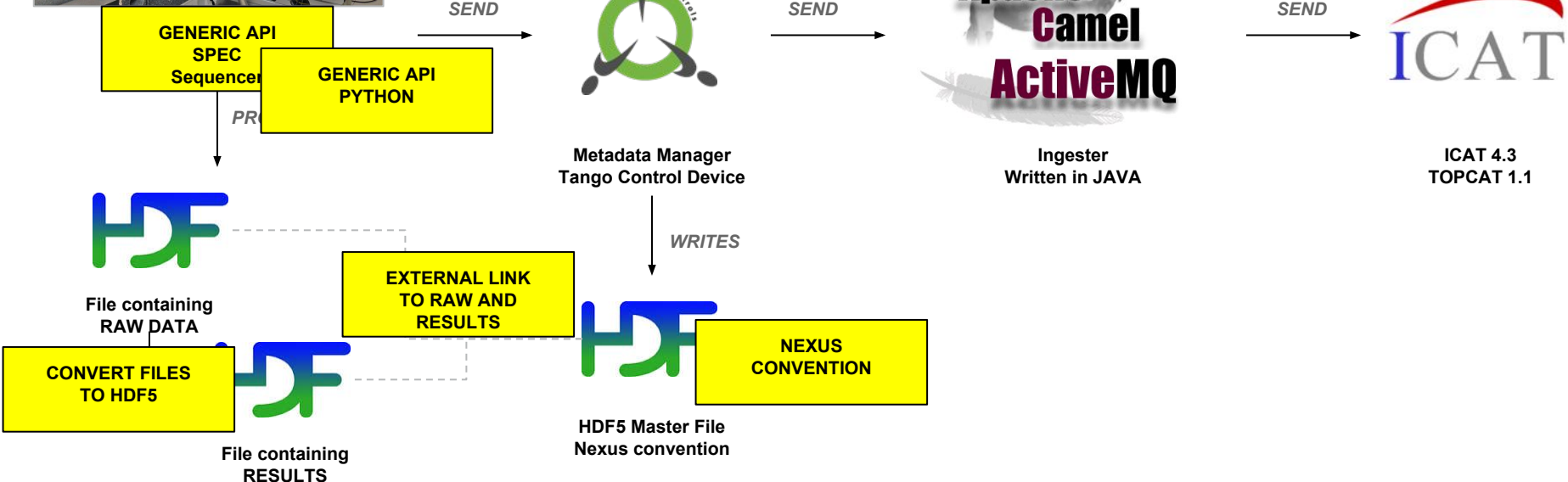
File containing
RESULTS



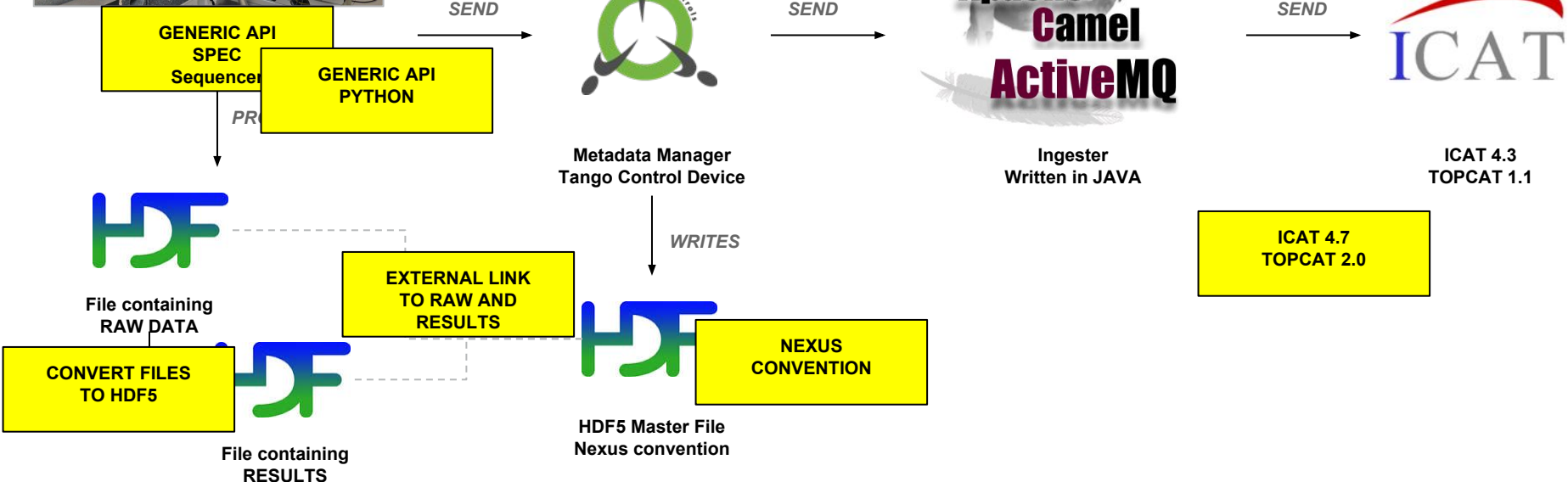
NEXUS
CONVENTION

HDF5 Master File
Nexus convention

ICAT on Test@ESRF



ICAT on Test@ESRF



Fast Tomography Beamlines on Production

ID11
ID15
ID16A
ID16B

New Beamlines

ID01
ID21
ID30A-1
ID30B
ID30A-3
ID29
ID23-2
BM29

Stats since 18.July.2014

16980	Datasets
472000	Dataset Parameters
272	Users
2065	Samples

Next Steps

- **Move ICAT 4.7 to Production with TopCAT**
- **Implement an IDS plugin with two levels**
- **Generate DOIs and Landing pages**
- **Add more beamlines (~ 10 beamlines/year)**



Thanks for your attention!

Questions?

