VO-Dance

a simple service publisher

Marco Molinaro
Omar Laurino
Cristina Knapic
Riccardo Smareglia

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motivation

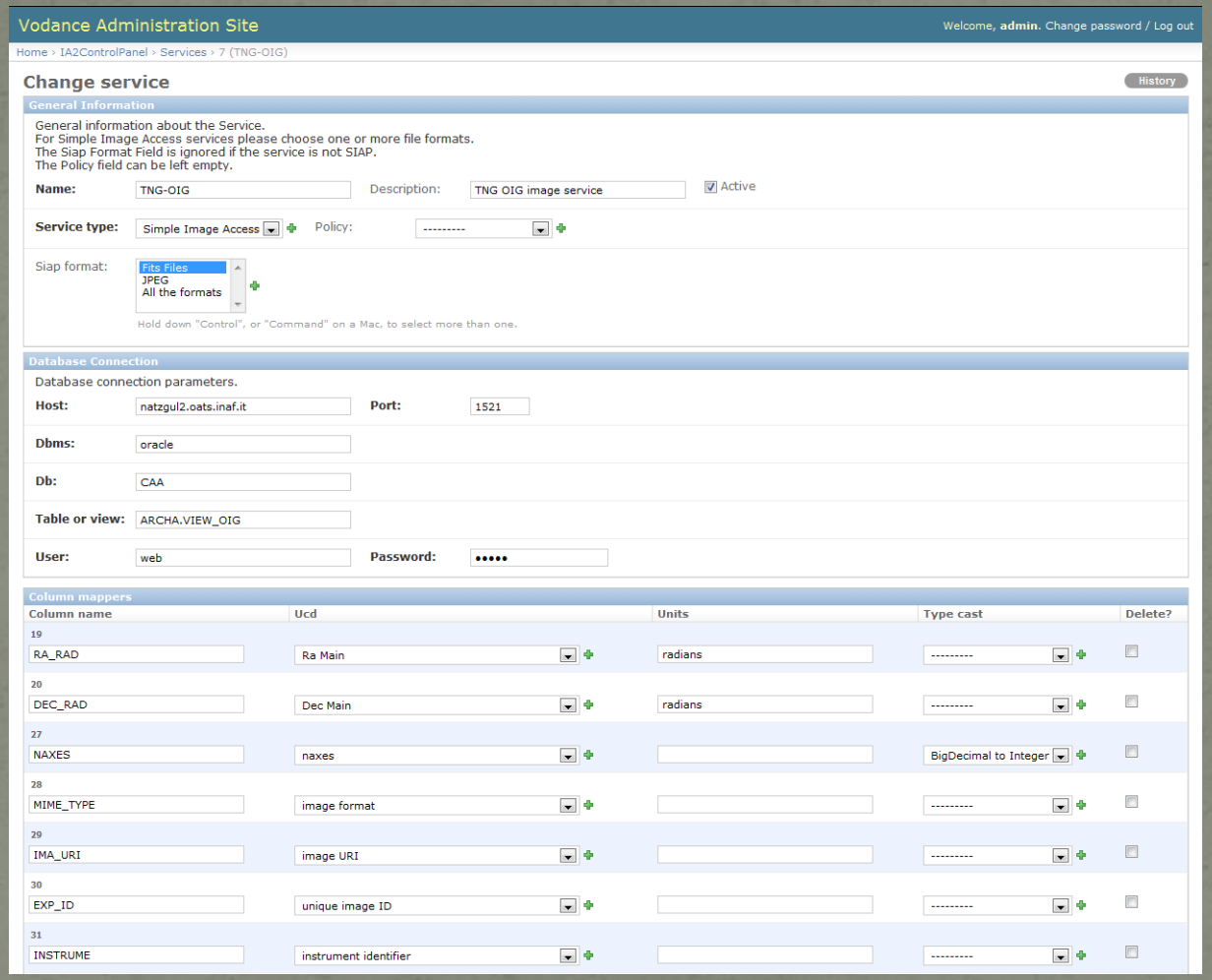
- dynamically create compliant DAL services
  - out of a generic database table or view
  - either local or remote
  - on the fly
- allow users which want to publish their datasets to the VO to achieve this goal in a *few, simple steps* without
  - dealing with the technical details of standard services development
  - having to move their data.

requirements

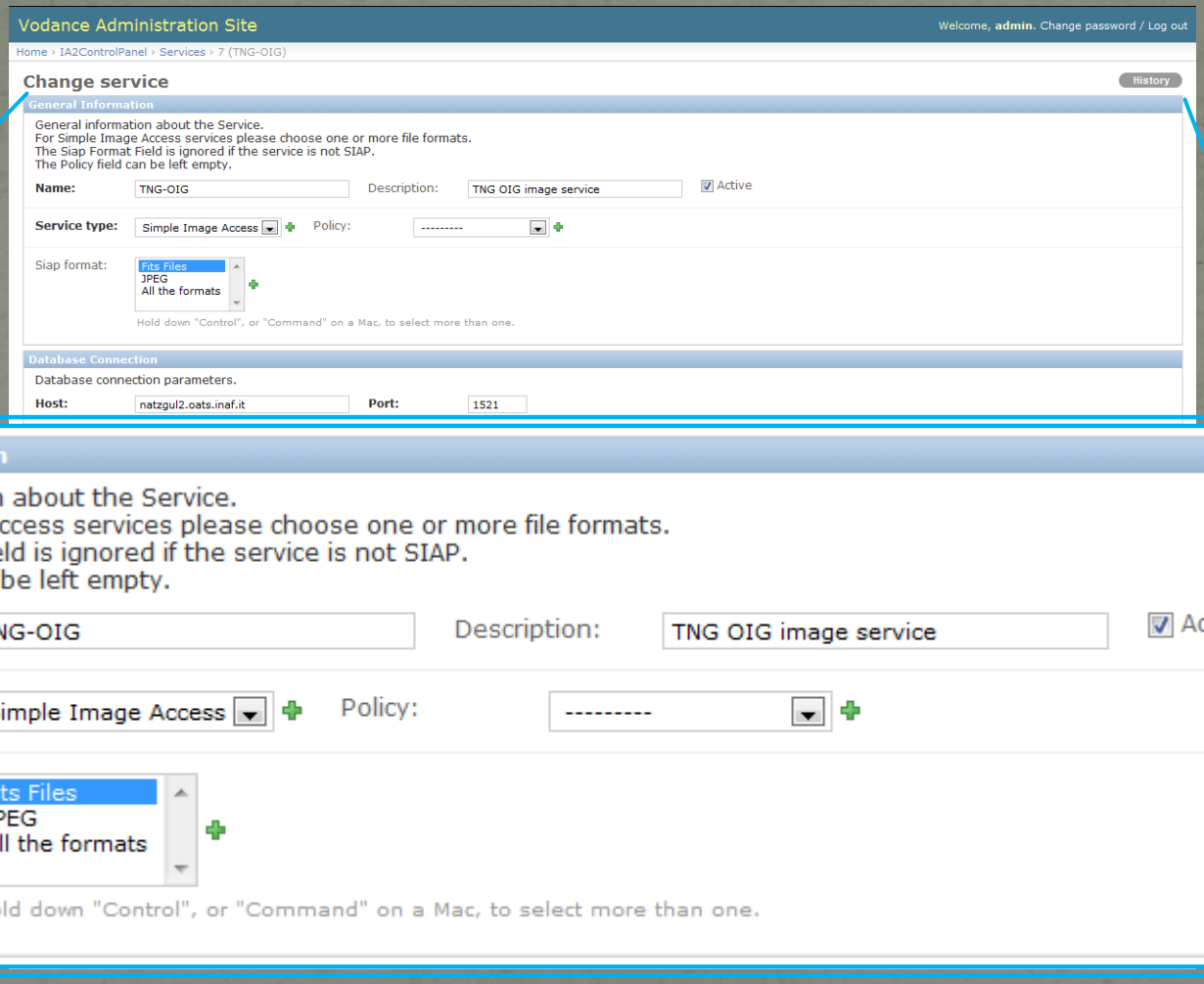
- access to the table or view
- define general parameters
  - service name
  - service type
- define a data access policy, if needed
- fill in database connection parameters;
- define column metadata
  - UCDs
  - units
  - arrays
  - typecasting

➡ Register your new service!

interface


Vodance Administration Site
Welcome, admin. Change password / Log out
Home › IA2ControlPanel › Services › 7 (TNG-OIG)
Change service
History
General Information
General information about the Service.
For Simple Image Access services please choose one or more file formats.
The Siap Format Field is ignored if the service is not SIAP.
The Policy field can be left empty.
Name: TNG-OIG
Description: TNG OIG image service
Active
Service type: Simple Image Access
Policy: ---------
Siap format: Fits Files, JPEG, All the formats
Hold down "Control", or "Command" on a Mac, to select more than one.
Database Connection
Database connection parameters.
Host: natzgul2.oats.inaf.it
Port: 1521
Dbms: oracle
Db: CAA
Table or view: ARCHA.VIEW_OIG
User: web
Password: •••••
Column mappers
Column name | Ucd | Units | Type cast | Delete?
19 RA_RAD | Ra Main | radians | ---------
20 DEC_RAD | Dec Main | radians | ---------
27 NAXES | naxes | | BigDecimal to Integer
28 MIME_TYPE | image format | | ---------
29 IMA_URI | image URI | | ---------
30 EXP_ID | unique image ID | | ---------
31 INSTRUME | instrument identifier | | ---------

interface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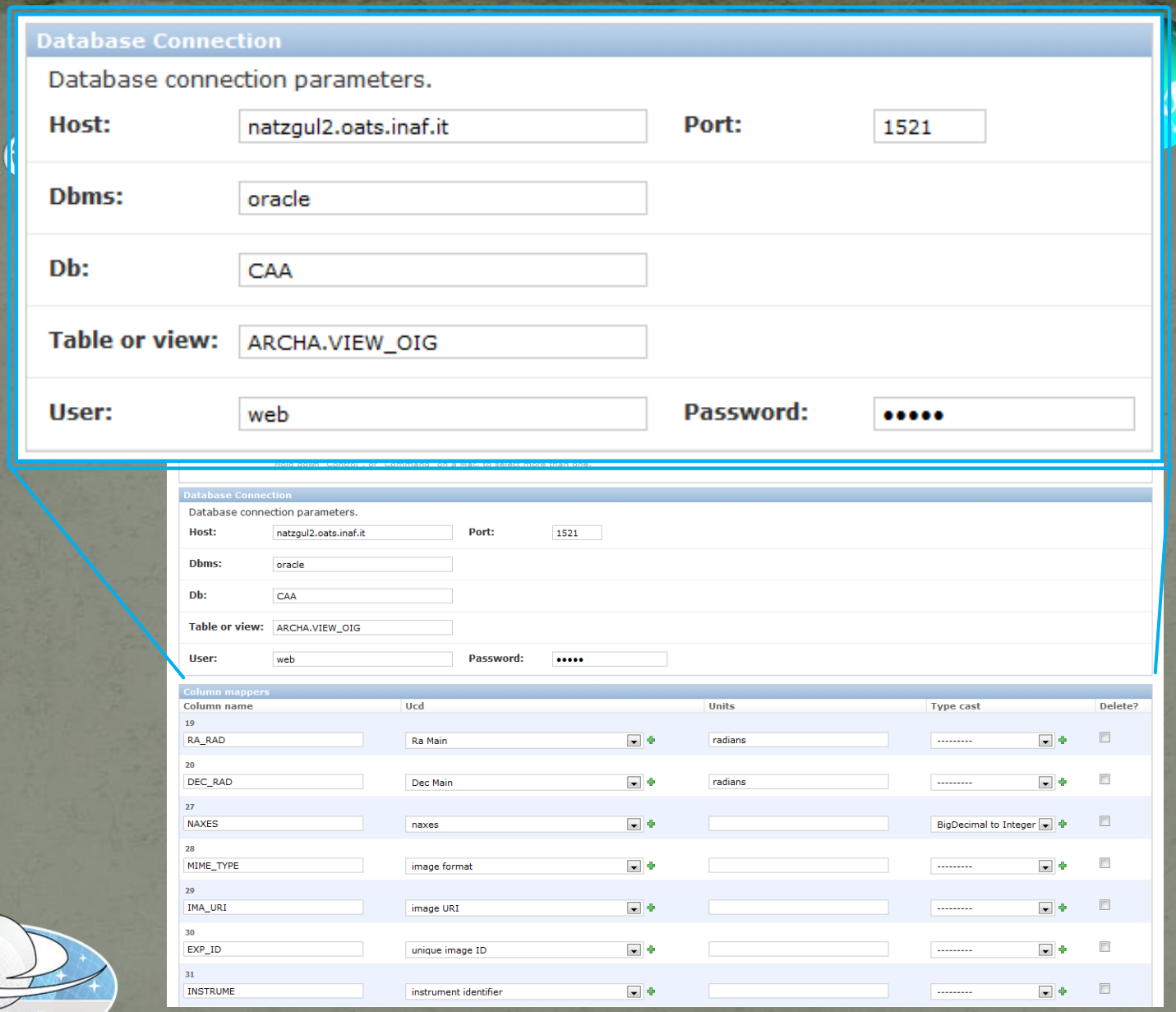

IVOA

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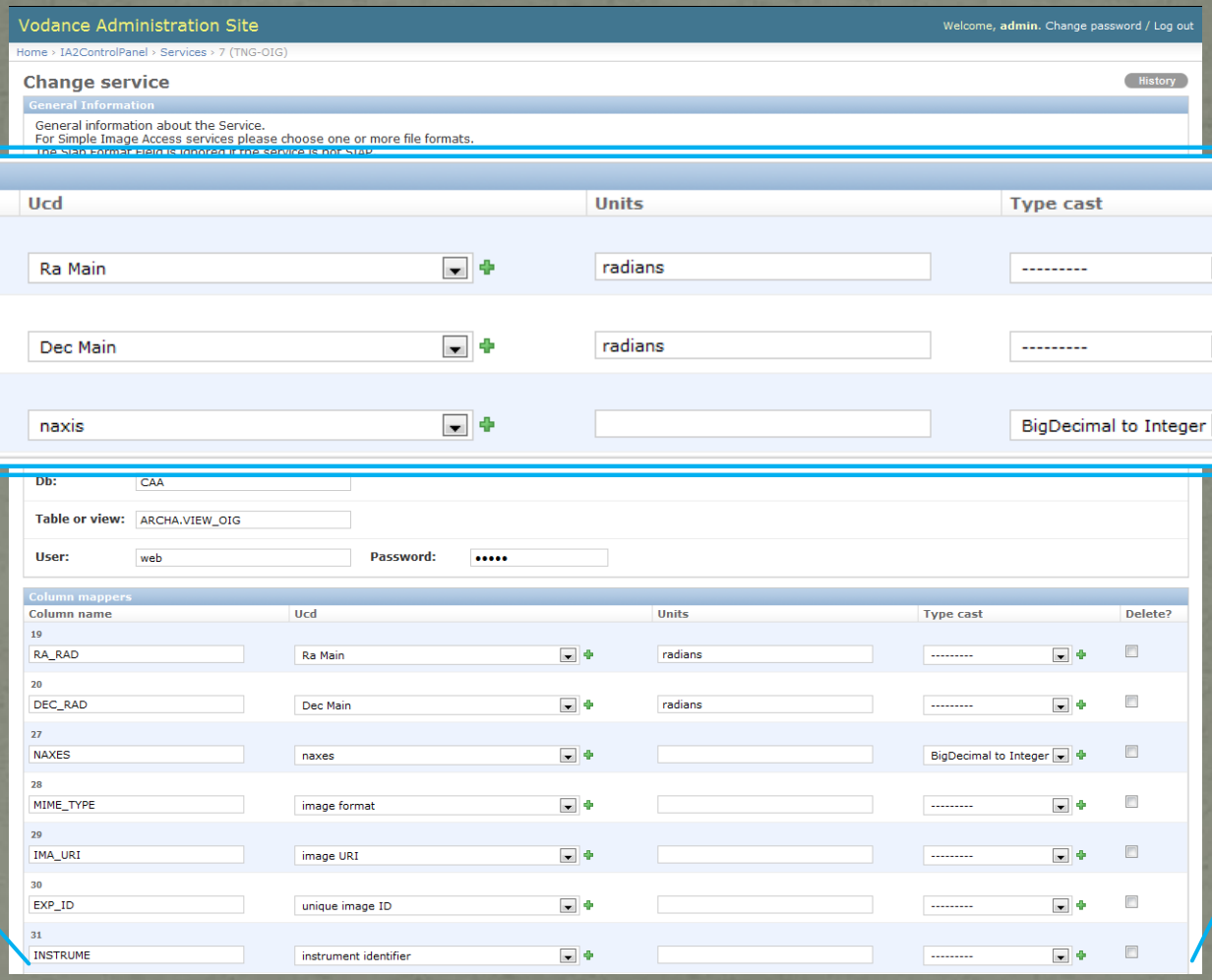
interface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Column mappers
Column name
Ucd
Units
Type cast
Delete?
19
RA_RAD
Ra Main
radians

20
DEC_RAD
Dec Main
radians

33
NAXIS1, NAXIS2 = NAXIS
naxis
BigDecimal to Integer
Db:
CAA
Table or view:
ARCHA.VIEW_OIG
User:
web
Password:
•••••
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Type cast
Delete?
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RA_RAD
Ra Main
radians

20
DEC_RAD
Dec Main
radians

27
NAXES
naxes
BigDecimal to Integer
28
MIME_TYPE
image format

29
IMA_URI
image URI

30
EXP_ID
unique image ID

31
INSTRUME
instrument identifier
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additional features

- policy
  - allow public data restrictions
    - incomplete at present
    - can be bypassed by view
- type casting
  - conform DBMS type to DAL protocol requirements
    - a bit tricky

published services

capabilities

- DAL protocols
  - SIAP
  - cone search
- DBMSs
  - MySQL
  - Oracle

published & registered

- 3 SIA services for TNG
- 11 Planck cone searches
- ARNICA SIA service
- 4 cone searches from SDSS extracted candidate quasars and galaxies (with photometric redshifts)

...a mix of hosted and locally managed data

…what's next

- other DAL protocols implementation
  - SSAP
  - TAP ?
- support more DBMSs
  - PostgreSQL
- interface refinement

- VO-Dance release … not asap