

VO-Dance

a simple service publisher

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motivation

- odynamically 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.





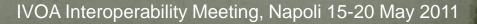
requirements

- 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



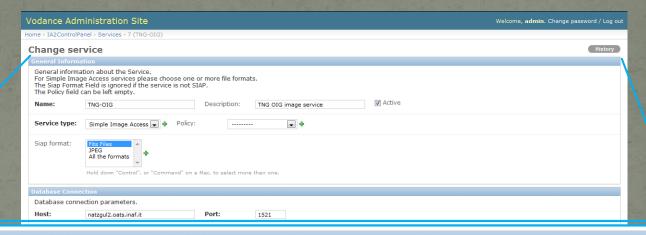
Vodance Administration Site Welcome, admin. Change password / Log out										
Home > IA2ControlPanel > Services > 7 (TNG-OIG)										
Change service										
General Informa	tion									
General information about the Service. For Simple Image Access services please choose one or more file formats. The Siap Format Field is ignored if the service is not SIAP. The Policy field can be left empty.										
Name:	TNG-OIG	Descrip	tion: TNG OIG	image service	✓ Active					
Service type:	Simple Image Access 🔻 🕯	Policy:		•						
Siap format:	Fits Files JPEG All the formats Hold down "Control", or "Com	nmand" on a Mac, to se	lect more than one.							
Database Connec	tion									
Database conne	ction parameters.									
Host:	natzgul2.oats.inaf.it	Port:	1521							
Dbms:	oracle									
Db:	CAA									
Table or view:	ARCHA.VIEW_OIG									
User:	web	Passw	ord:							
Column mappers										
Column name		Ucd			Units	Type cast		Delete?		
19										
RA_RAD		Ra Main		•	radians		•			
20										
DEC_RAD		Dec Main		•	radians		- +			
NAXES		naxes		•		BigDecimal to Int	nanc 🗖 🐧			
28		liaxes		₩ ₹		bigDecimal to Inc	egel 💌 🐨			
MIME_TYPE		image format		+			•			
29										
IMA_URI		image URI		• •			• •			
30										
EXP_ID		unique image ID		•			•			
31										
INSTRUME		instrument identifier		+			4			





interface





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. Active Description: Name: TNG-OIG TNG OIG image service Service type: Policy: Simple Image Access Siap format: Fits Files JPEG All the formats Hold down "Control", or "Command" on a Mac, to select more than one.





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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:	••••						

	Database conne	atabase connection parameters.								
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	Dbms:	oracle CAA ARCHA.VIEW_OIG								
	Db:									
	Table or view:									
	User:	web		Password:	••••					
	Column mappers									
	Column name		Ucd				Units		Type cast	Delete?
	RA_RAD		Ra Main			•	radians		••••••••••••••••••••••••••••••••••••••	
	DEC_RAD		Dec Main			•	radians			
	NAXES		naxes			• •			BigDecimal to Integer 🕡 💠	
	28 MIME_TYPE		image form	nat		•				
	IMA_URI		image URI			• •				
	30 EXP_ID		unique ima	ge ID		•			ф	
	31 INSTRUME		instrument	identifier		• •]	•	





interface

Change service

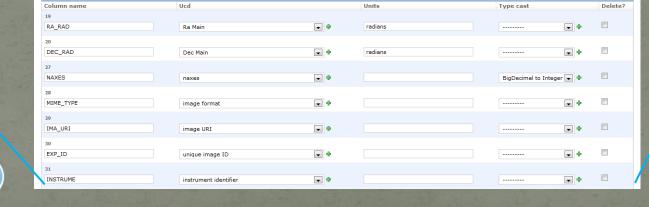
Table or view: ARCHA.VIEW_OIG



	General information about the Service. For Simple Image Access services please choose one or more file f Ine Sign Format Flein is innored in the Service is not Sign.	formats.			
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 🐷 💠	

Password:





additional features



- data 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

100bs.ii

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

- VOBs.it
- other DAL protocols implementation
 - SSAP
 - TAP
- support more DBMSs
 - PostgreSQL
- interface refinement
- VO-Dance release ... not asap



